

APPENDIX I LIMITATIONS



1. This report and its findings should be considered in relation to the terms of reference and objectives agreed between E3P and the Client as indicated in Section 1.2.
2. For the work, reliance has been placed on publicly available data obtained from the sources identified. The information is not necessarily exhaustive and further information relevant to the site may be available from other sources. When using the information it has been assumed it is correct. No attempt has been made to verify the information.
3. This report has been produced in accordance with current UK policy and legislative requirements for land and groundwater contamination which are enforced by the local authority and the Environment Agency. Liabilities associated with land contamination are complex and requires advice from legal professionals.
4. During the site walkover reasonable effort has been made to obtain an overview of the site conditions. However, during the site walkover no attempt has been made to enter areas of the site that are unsafe or present a risk to health and safety, are locked, barricaded, overgrown, or the location of the area has not been made known or accessible.
5. Access considerations, the presence of services and the activities being carried out on the site limited the locations where sampling locations could be installed and the techniques that could be used.
6. Site sensitivity assessments have been made based on available information at the time of writing and are ultimately for the decision of the regulatory authorities.
7. Where mention has been made to the identification of Japanese Knotweed and other invasive plant species and asbestos or asbestos-containing materials this is for indicative purposes only and do not constitute or replace full and proper surveys.
8. The executive summary, conclusions and recommendations sections of the report provide an overview and guidance only and should not be specifically relied upon without considering the context of the report in full.
9. E3P cannot be held responsible for any use of the report or its contents for any purpose other than that for which it was prepared. The copyright in this report and other plans and documents prepared by E3P is owned by them and no such plans or documents may be reproduced, published or adapted without written consent. Complete copies of this may, however, be made and distributed by the client as is expected in dealing with matters related to its commission. Should the client pass copies of the report to other parties for information, the whole report should be copied, but no professional liability or warranties shall be extended to other parties by E3P in this connection without their explicit written agreement there to by E3P.
10. New information, revised practices or changes in legislation may necessitate the re-interpretation of the report, in whole or in part.



APPENDIX II GLOSSARY

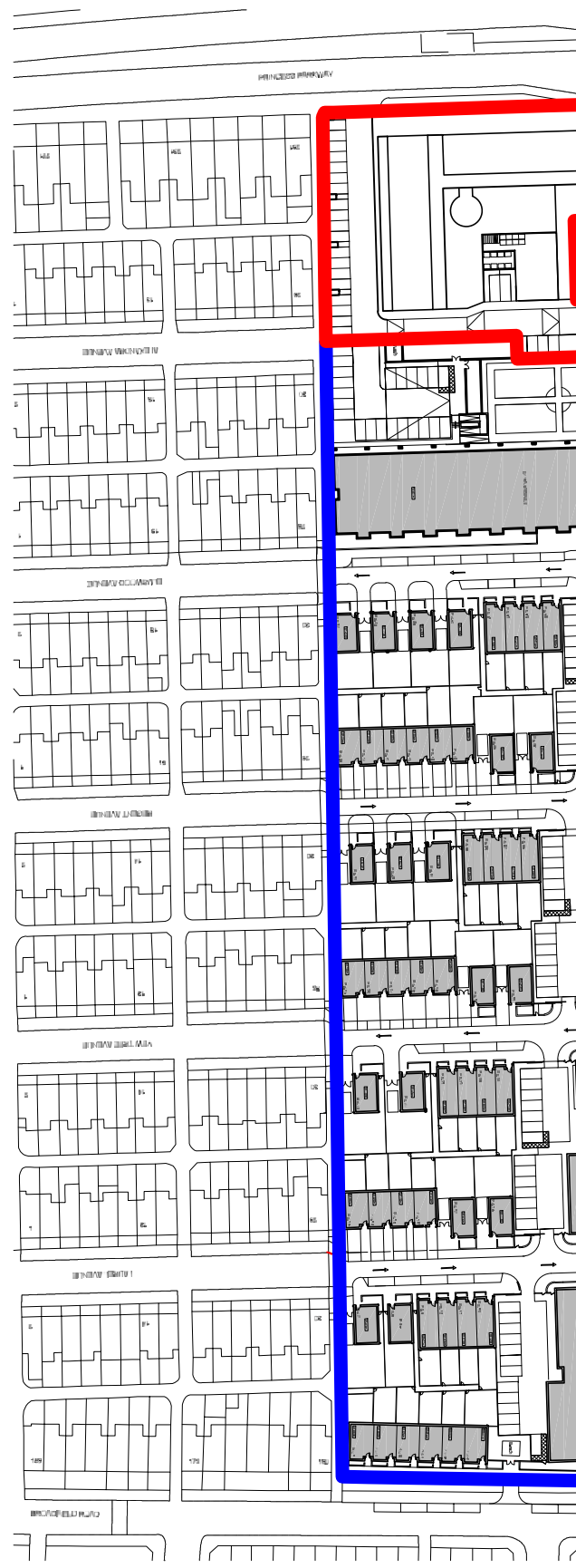


TERMS

AST	Above Ground Storage Tank	SGV	Soil Guideline Value
BGS	British Geological Survey	SPH	Separate Phase Hydrocarbon
BSI	British Standards Institute	TPH CWG	Total Petroleum Hydrocarbon (Criteria Working Group)
BTEX	Benzene, Toluene, Ethylbenzene, Xylenes	SPT	Standard Penetration Test
CIEH	Chartered Institute of Environmental Health	SVOC	Semi Volatile Organic Compound
CIRIA	Construction Industry Research Association	UST	Underground Storage Tank
CLEA	Contaminated Land Exposure Assessment	VCCs	Vibro Concrete Columns
CSM	Conceptual Site Model	VOC	Volatile Organic Compound
DNAPL	Dense Non-Aqueous Phase Liquid (chlorinated solvents, PCB)	WTE	Water Table Elevation
DWS	Drinking Water Standard	m	Metres
EA	Environment Agency	km	Kilometres
EQS	Environmental Quality Standard	%	Percent
GAC	General Assessment Criteria	%v/v	Percent volume in air
GL	Ground Level	mb	Milli Bars (atmospheric pressure)
GSV	Gas Screening Value	l/hr	Litres per hour
HCV	Health Criteria Value	µg/l	Micrograms per Litre (parts per billion)
ICSM	Initial Conceptual Site Model	ppb	Parts Per Billion
LNAPL	Light Non-Aqueous Phase Liquid (petrol, diesel, kerosene)	mg/kg	Milligrams per kilogram (parts per million)
ND	Not Detected	ppm	Parts Per Million
LMRL	Lower Method Reporting Limit	mg/m³	Milligram per metre cubed
NR	Not Recorded	m bgl	Metres Below Ground Level
PAH	Polycyclic Aromatic Hydrocarbon	m bcl	Metre Below Cover Level
PCB	Poly-Chlorinated Biphenyl	mAOD	Metres Above Ordnance Datum (sea level)
PID	Photo Ionisation Detector	kN/m²	Kilo Newtons per metre squared
QA	Quality Assurance	µm	Micro metre
SGV	Soil Guideline Value		

APPENDIX III DRAWINGS





Notes:



School Extension

Pre 1881 - Pre 1889
Pond

Pre 1949 - Present
Electric Sub-Station

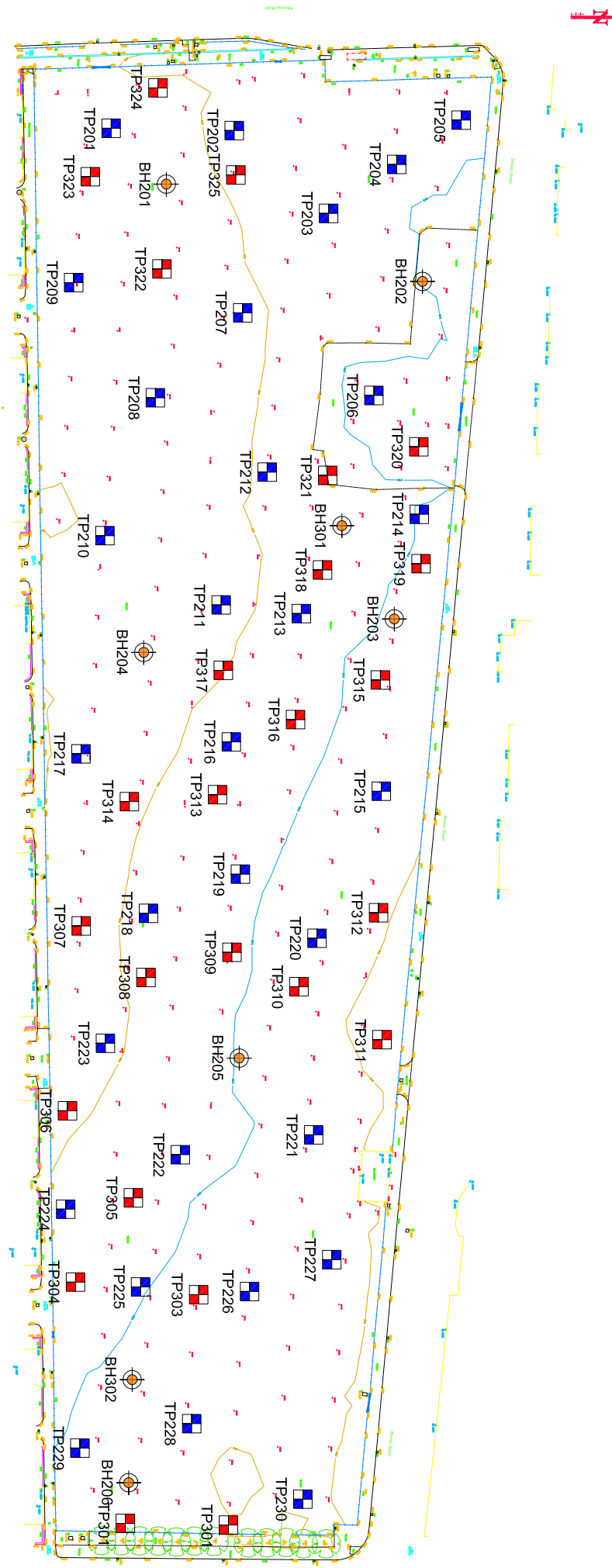
Pre 1922 - Pre 2018
School

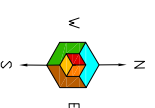
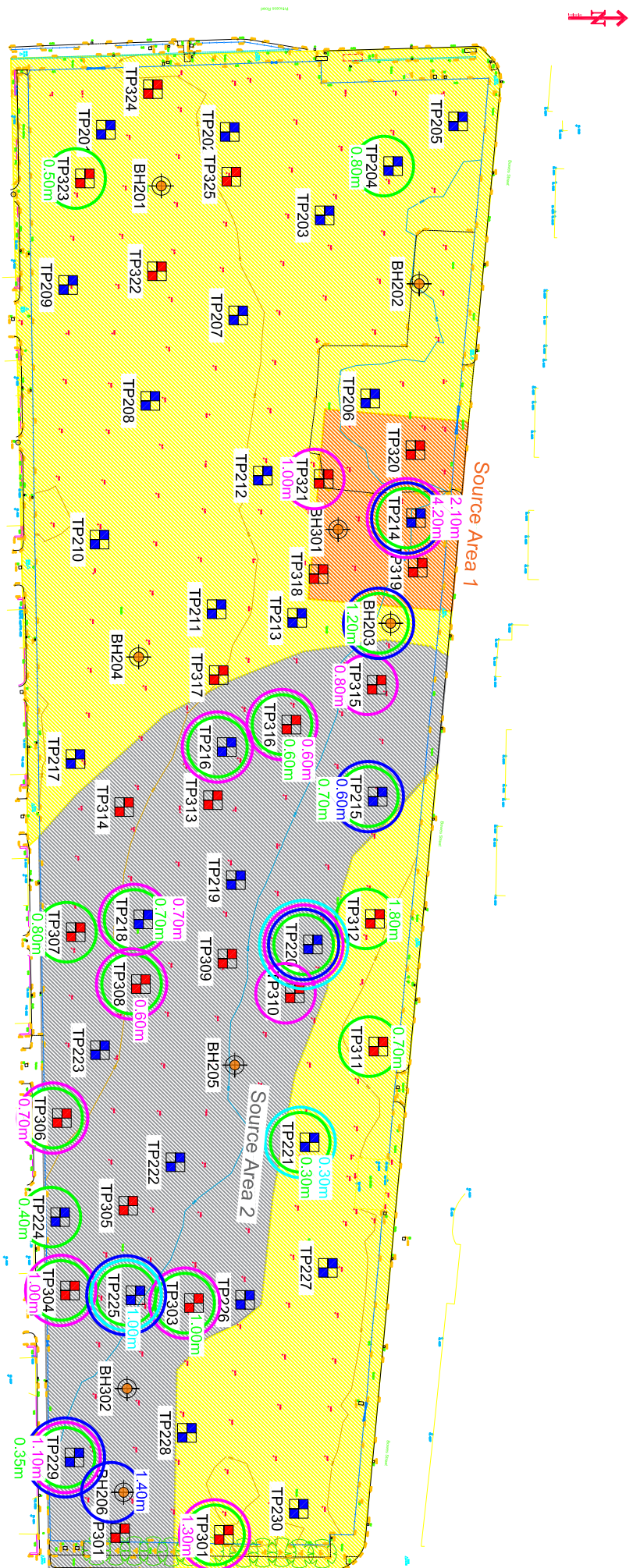
Pre 1922 - Pre 2018
Princess Road Bus and
Tram Depot

Pre 1922 - Pre 2018
Princess Road Bus and
Tram Depot

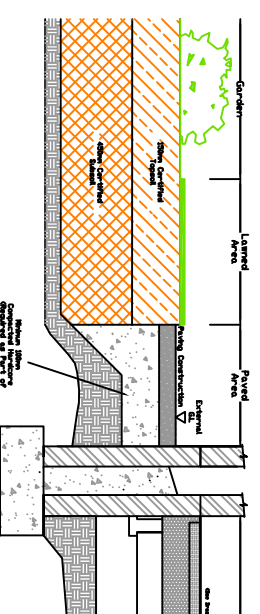
Pre 1932 - Pre 2018
Princess Road Bus
Tram Depot Extension

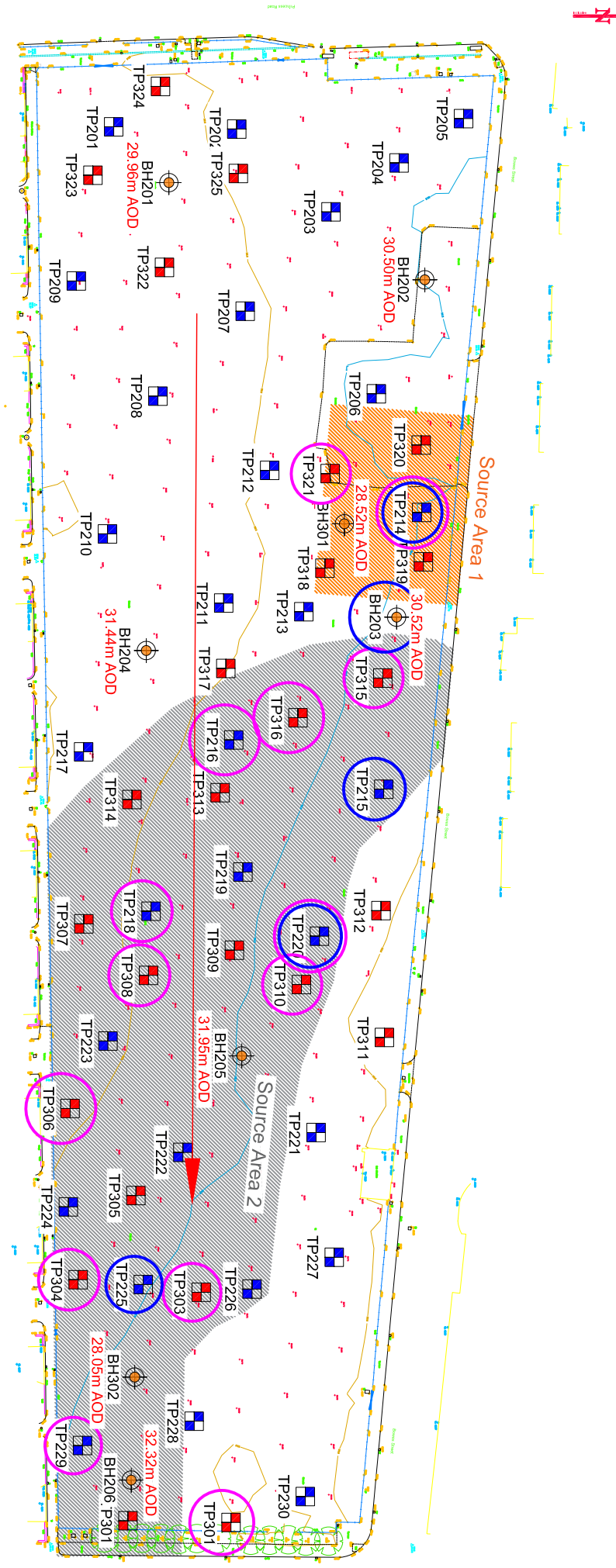


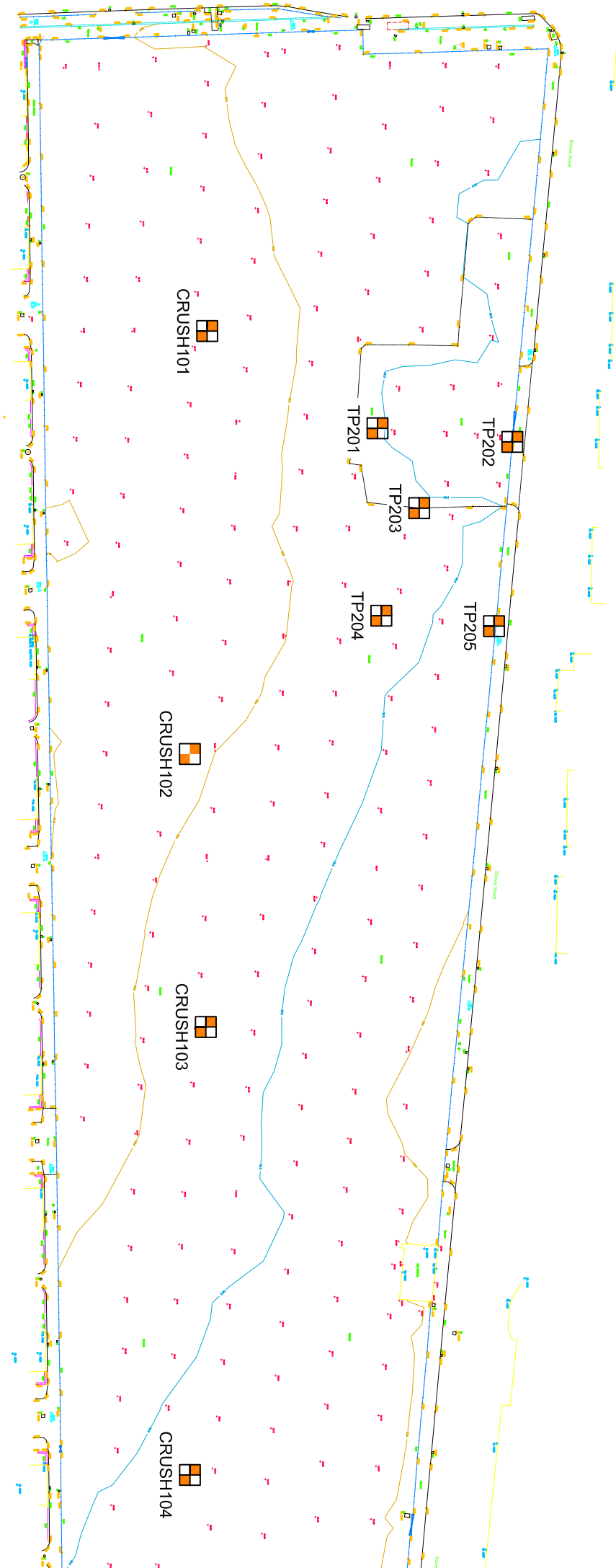


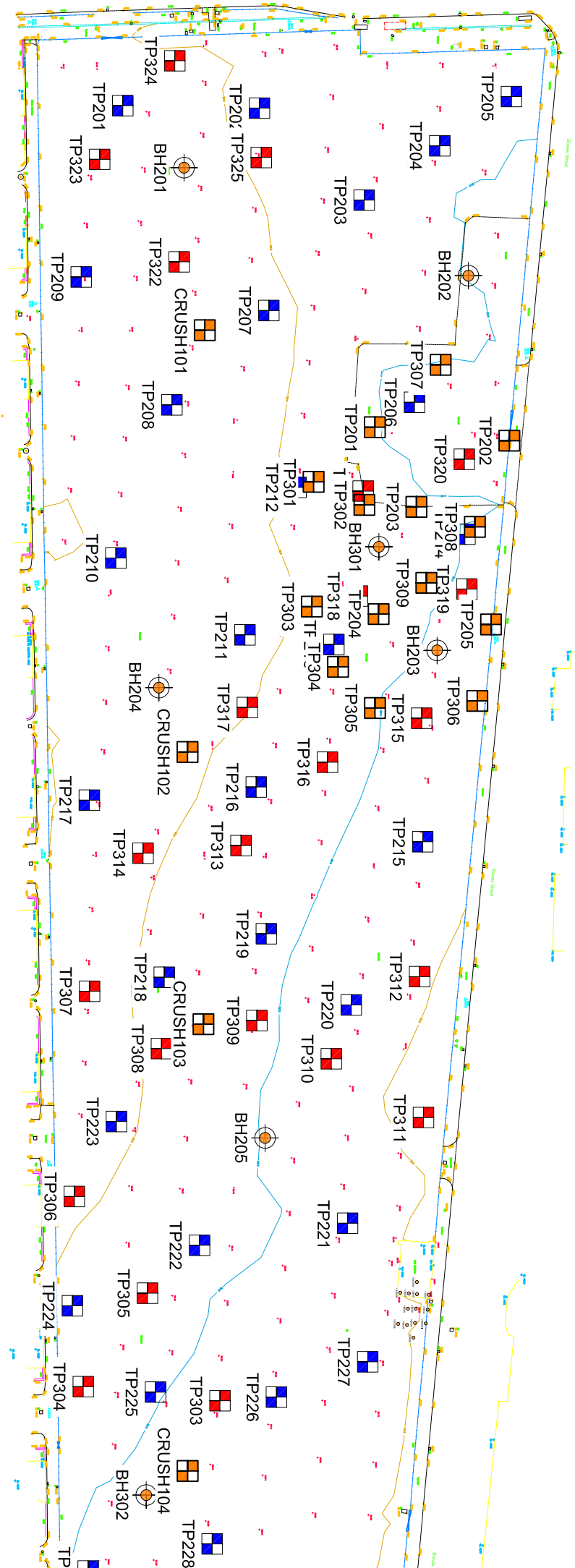


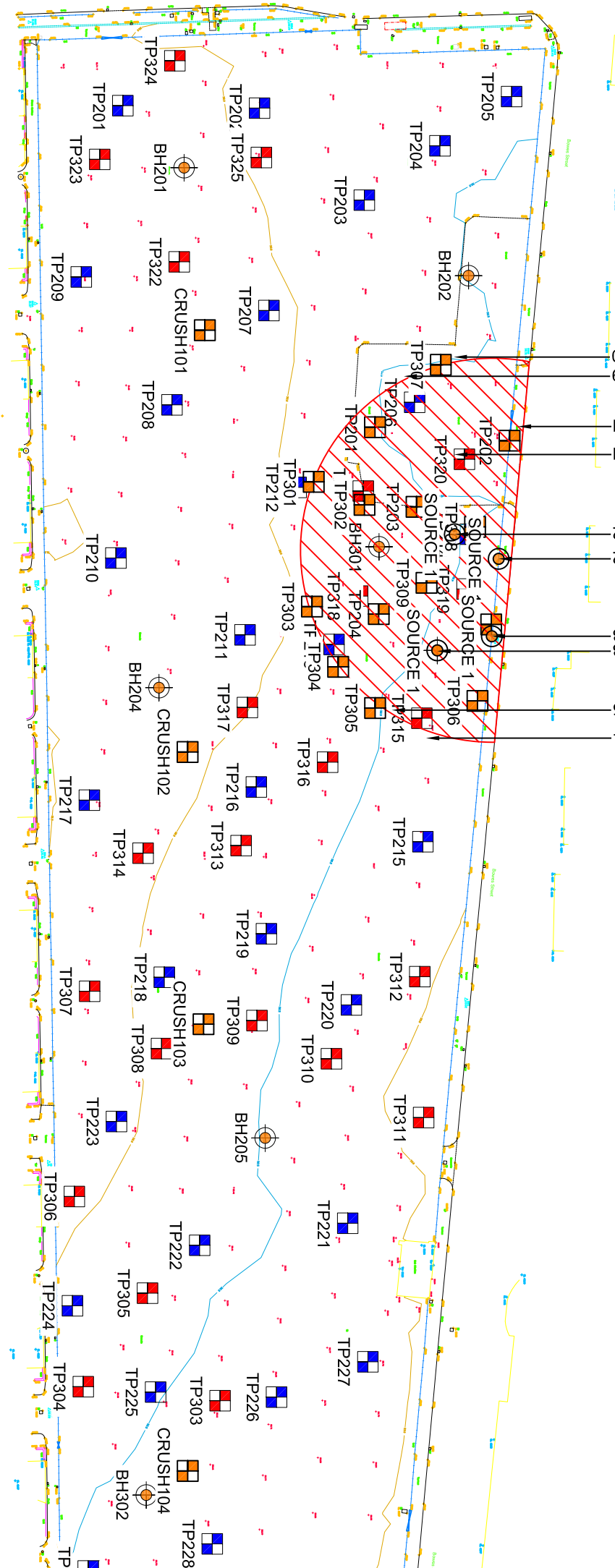
Indicative Construction for Garden Cover











APPENDIX IV PHOTOGRAPHS





PLATE 1 – EXCAVATION OF SOURCE AREA 1



PLATE 2 – BATTERING OF SOURCE AREA 1 EXCAVATION AGAINST ADJACENT HIGHWAY



PLATE 3 – STOCKPILING OF EXCAVATED MATERIAL FROM SOURCE AREA 1



PLATE 4 – PID MONITORING OF CONTAMINATED MATERIAL





PLATE 5 – BASE OF SOURCE AREA 1 AFTER EXCAVATION



PLATE 6 – MATERIAL SAMPLED FOR BASE VALIDATION





PLATE 7 – WIDE VIEW OF COMPLETED SOURCE AREA 1 EXCAVATION

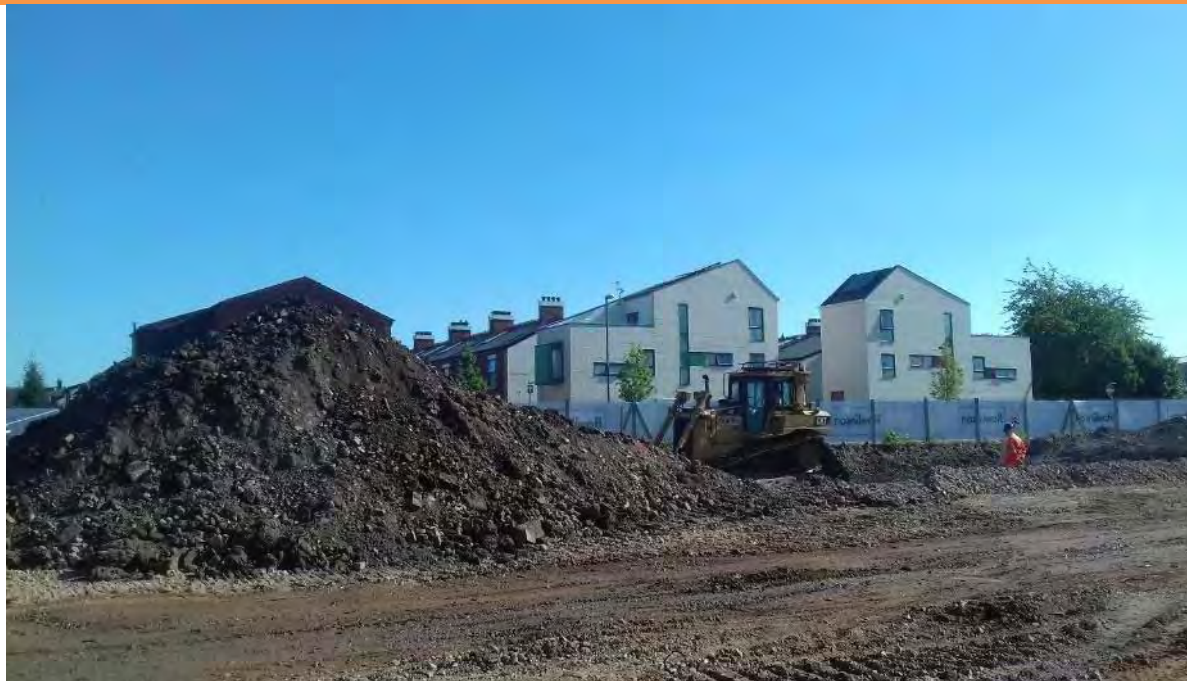


PLATE 8 – TOP 1.0m OF RETAINED MATERIAL FROM SOURCE AREA 1





PLATE 9 – CONTAMINATED MATERIAL BEING TURNED

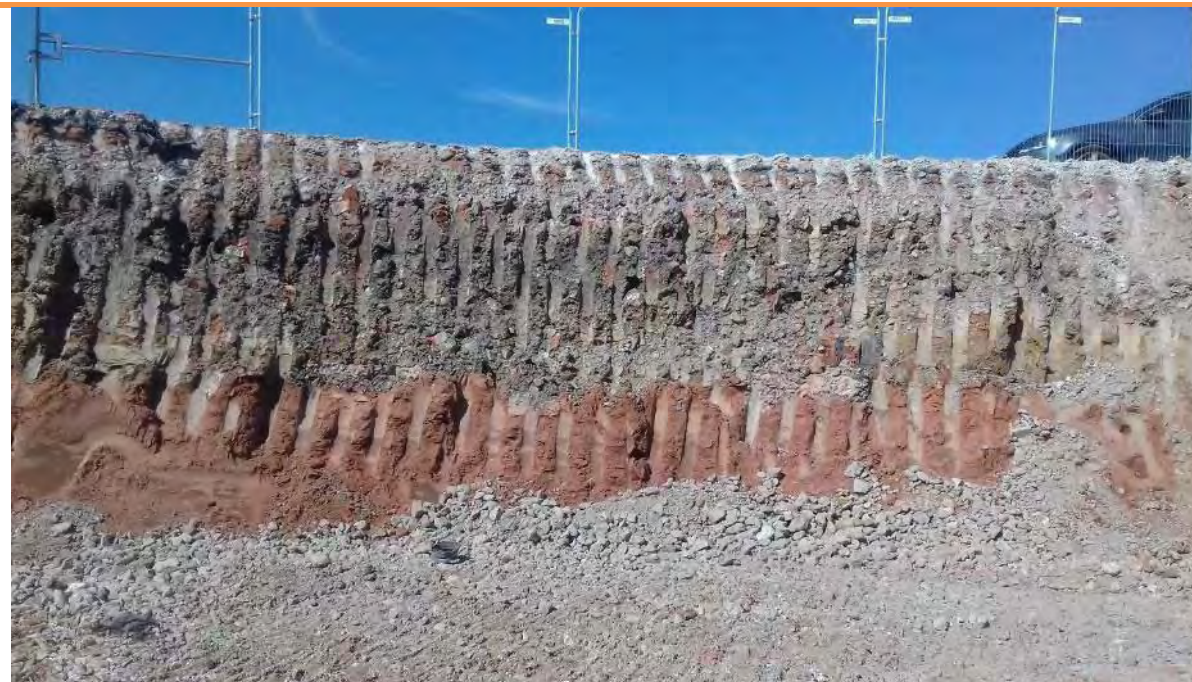


PLATE 10 – WEST SIDE OF SOURCE AREA 1 EXCAVATION



PLATE 11 – INFILLED SOURCE AREA 1



PLATE 12 –INSTALLED VAPOUR RISK ASSESSMENT BOREHOLES





PLATE 13 – FURTHER BOREHOLES



PLATE 14 – SOURCE AREA 2 FURTHER INVESTIGATION TRIAL PIT





PLATE 15 – SOURCE AREA 2 FURTHER INVESTIGATION ARISINGS



PLATE 16 – SOURCE AREA 2 FURTHER INVESTIGATION TRIAL PIT





PLATE 17 – SOURCE AREA 2 FURTHER INVESTIGATION ARISING



PLATE 18 – SOURCE AREA 2 FURTHER INVESTIGATION ARISING





PLATE 19 – EAST OF SITE



PLATE 20 – VIEW OF SITE FACING EAST





PLATE 21 – VIEW OF WEST OF SITE



PLATE 22 – WEST OF SITE





PLATE 23 – UNDERGROUND OBSTRUCTIONS FROM SOURCE AREA 1

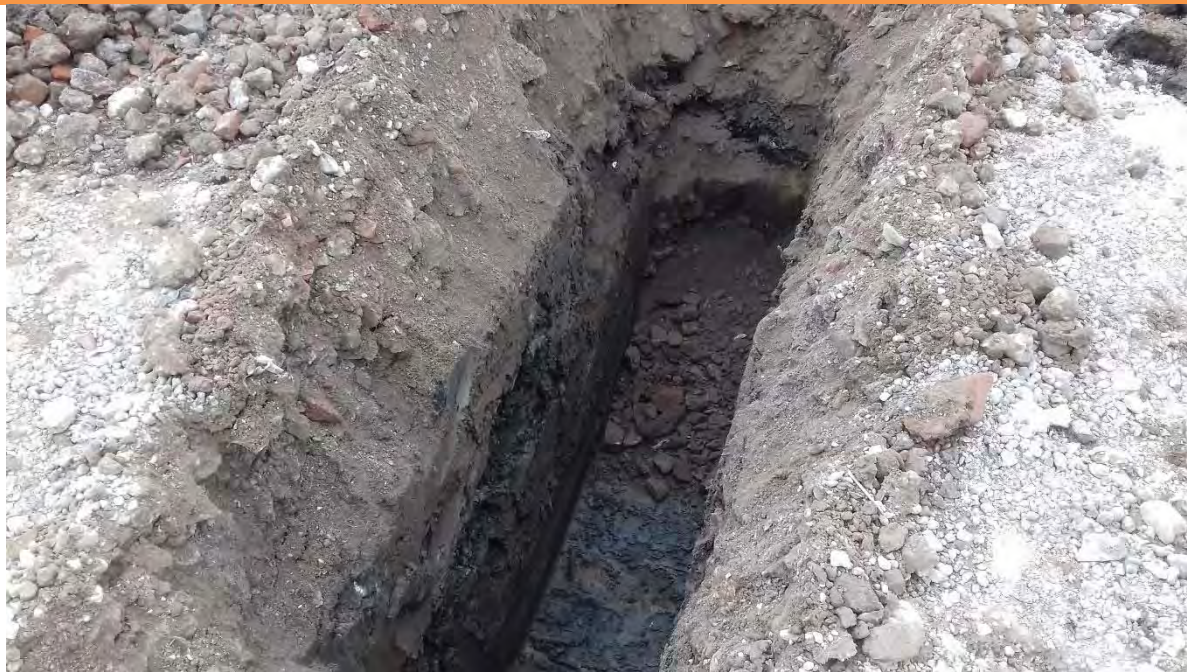


PLATE 24 – PRELIMINARY TRIAL PITS IN VINICITY OF SUBSTATION





PLATE 25 – PRELIMINARY TRIAL PITS IN VINICITY OF SUBSTATION



PLATE 26 – ARISINGS OF PRELIMINARY TRIAL PITS





PLATE 27 – ARISINGS OF PRELIMINARY TRIAL PITS



PLATE 28 – POST DEMOLITION EXCAVATION BENEATH SUBSTATION





PLATE 29 – IMPACTED MATERIAL BENEATH SUBSTATION



PLATE 30 – REMNANT CONTAMINATION AT VB004



PLATE 31 – CLEAN BASE AND BATTERED SIDES OF EXCAVATION DURING VALIDATION



PLATE 32 – IN SITU UNDERGROUND TANK BENEATH FORMER SUBSTATION

APPENDIX V CHEMICAL VALIDATION TESTING





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Analytical Report Number : 19-45473

Replaces Analytical Report Number : 19-45473, issue no. 1

Project / Site name:	Bowes Street	Samples received on:	12/06/2019
Your job number:	11-813	Samples instructed on:	13/06/2019
Your order number:		Analysis completed by:	06/08/2019
Report Issue Number:	2	Report issued on:	06/08/2019
Samples Analysed:	5 soil samples		

Signed:

Vineetha Meethale-Vettil
Reporting Manager
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting

Excel copies of reports are only valid when accompanied by this PDF certificate.

Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement. Application of uncertainty of measurement would provide a range within which the true result lies. An estimate of measurement uncertainty can be provided on request.

Iss No 19-45473-2 Bowes Street 11-813

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The results included within the report are representative of the samples submitted for analysis.

Page 1 of 6

Analytical Report Number: 19-45473

Project / Site name: Bowes Street

Lab Sample Number				1244327	1244328	1244329	1244330	1244331
Sample Reference				VB005	VB006	VS005W	VS006E	VS006
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				12/06/2019	12/06/2019	12/06/2019	12/06/2019	12/06/2019
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	N/A	NONE	11	20	43	15	16
Total mass of sample received	kg	0.001	NONE	0.55	0.54	0.46	0.53	0.51

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.27	2.2	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	0.24	0.21
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.22	2.9	0.32
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.26	2.5	0.54
Phenanthrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	1.4	17	3.5
Anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.33	4.3	0.78
Fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	1.6	19	3.6
Pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	1.7	20	4.3
Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.95	12	2.5
Chrysene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.80	7.7	1.7
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.89	9.6	1.7
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.53	4.4	0.95
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.88	9.7	2.0
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.42	4.4	0.86
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	1.3	0.29
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.56	5.0	0.98

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	< 0.80	< 0.80	10.8	122	24.3
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Project / Site name: Bowes Street

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Sample Reference				VB005	VB006	VS005W	VS006E	VS006
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				12/06/2019	12/06/2019	12/06/2019	12/06/2019	12/06/2019
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					

Monoaromatics & Oxygenates

Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p & m-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Petroleum Hydrocarbons

TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	6.9	4.2	< 1.0
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0	20	19	< 2.0
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	< 8.0	< 8.0	31	46	< 8.0
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	< 8.0	< 8.0	52	84	< 8.0
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10	< 10	110	150	< 10

TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	2.9	8.5	5.3
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0	15	33	14
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	< 10	< 10	60	170	38
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	< 10	< 10	120	260	59
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10	< 10	200	470	120

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Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				12/06/2019	12/06/2019	12/06/2019	12/06/2019	12/06/2019
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
VOCs								
Chloromethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl Chloride	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichlorofluoromethane	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
2,2-Dichloropropane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloromethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1-Trichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloropropene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trans-1,2-dichloroethene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloromethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dibromomethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromodichloromethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichloropropane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dibromochloromethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromoethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1,2-Tetrachloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p & m-Xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Styrene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tribromomethane	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Isopropylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
n-Propylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
2-Chlorotoluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
4-Chlorotoluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
tert-Butylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
sec-Butylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p-Isopropyltoluene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Butylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Hexachlorobutadiene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichlorobenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Iss No 19-45473-2 Bowes Street 11-813

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The results included within the report are representative of the samples submitted for analysis.

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Analytical Report Number : 19-45473

Project / Site name: Bowes Street

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
1244327	VB005	None Supplied	None Supplied	Red sand.
1244328	VB006	None Supplied	None Supplied	Brown clay.
1244329	VS005W	None Supplied	None Supplied	Brown clay and sand with vegetation.
1244330	VS006E	None Supplied	None Supplied	Brown clay and sand with gravel.
1244331	VS006	None Supplied	None Supplied	Brown clay and sand with gravel.

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Analytical Report Number : 19-45473

Project / Site name: Bowes Street

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Water (PrW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
BTEX and MTBE in soil (Monoaromatics)	Determination of BTEX in soil by headspace GC-MS.	In-house method based on USEPA8260	L073B-PL	W	MCERTS
Moisture Content	Moisture content, determined gravimetrically.	In-house method based on BS1377 Part 2, 1990, Chemical and Electrochemical Tests	L019-UK/PL	W	NONE
Speciated EPA-16 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
TPHCWG (Soil)	Determination of hexane extractable hydrocarbons in soil by GC-MS/GC-FID.	In-house method with silica gel split/clean up.	L088/76-PL	W	MCERTS
Volatile organic compounds in soil	Determination of volatile organic compounds in soil by headspace GC-MS.	In-house method based on USEPA8260	L073B-PL	W	MCERTS

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.

For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.

Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.



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Analytical Report Number : 19-44581

Project / Site name:	Bowes Street	Samples received on:	06/06/2019
Your job number:	11-813	Samples instructed on:	06/06/2019
Your order number:	32697-OJ-11813	Analysis completed by:	13/06/2019
Report Issue Number:	1	Report issued on:	13/06/2019
Samples Analysed:	4 soil samples		

Signed:

Katarzyna Lewicka
Head of Reporting Section
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting

Excel copies of reports are only valid when accompanied by this PDF certificate.

Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement. Application of uncertainty of measurement would provide a range within which the true result lies. An estimate of measurement uncertainty can be provided on request.

Iss No 19-44581-1 Bowes Street 11-813

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The results included within the report are representative of the samples submitted for analysis.

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Analytical Report Number: 19-44581

Project / Site name: Bowes Street

Your Order No: 32697-OJ-11813

Lab Sample Number				1239453	1239454	1239455	1239456
Sample Reference				VB004	VB003	VS North 003	VS East 004
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				05/06/2019	05/06/2019	05/06/2019	05/06/2019
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status				
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	N/A	NONE	19	10	11	11
Total mass of sample received	kg	0.001	NONE	0.46	0.45	0.47	0.43

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	5.4	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	0.83	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	5.8	< 0.05	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	5.1	< 0.05	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	38	0.43	< 0.05	< 0.05
Anthracene	mg/kg	0.05	MCERTS	8.7	< 0.05	< 0.05	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	43	0.41	< 0.05	< 0.05
Pyrene	mg/kg	0.05	MCERTS	41	0.49	< 0.05	< 0.05
Benzo(a)anthracene	mg/kg	0.05	MCERTS	20	0.23	< 0.05	< 0.05
Chrysene	mg/kg	0.05	MCERTS	18	0.28	< 0.05	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	18	< 0.05	< 0.05	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	13	< 0.05	< 0.05	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	19	< 0.05	< 0.05	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	8.0	< 0.05	< 0.05	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	2.4	< 0.05	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	10	< 0.05	< 0.05	< 0.05

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	256	1.84	< 0.80	< 0.80
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Monoaromatics & Oxygenates

Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
p & m-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
o-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0

Petroleum Hydrocarbons

TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	2.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	37	< 2.0	< 2.0	< 2.0
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	52	< 8.0	< 8.0	< 8.0
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	90	< 8.0	< 8.0	< 8.0
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	180	< 10	< 10	< 10

TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	9.1	< 1.0	< 1.0	< 1.0
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	66	< 2.0	< 2.0	< 2.0
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	320	< 10	< 10	< 10
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	270	< 10	< 10	< 10
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	670	< 10	< 10	< 10



Analytical Report Number: 19-44581

Project / Site name: Bowes Street

Your Order No: 32697-OJ-11813

Lab Sample Number				1239453	1239454	1239455	1239456
Sample Reference				VB004	VB003	VS North 003	VS East 004
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				05/06/2019	05/06/2019	05/06/2019	05/06/2019
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status				

VOCs							
Chloromethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl Chloride	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0
Trichlorofluoromethane	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
2,2-Dichloropropane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
Trichloromethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1-Trichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloropropene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
Trans-1,2-dichloroethene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0
Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloromethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
Dibromomethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
Bromodichloromethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichloropropane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
Dibromochloromethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromoethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
Chlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1,2-Tetrachloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
p & m-Xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
Styrene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
Tribromomethane	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
Isopropylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
Bromobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
n-Propylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
2-Chlorotoluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
4-Chlorotoluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
tert-Butylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
sec-Butylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
p-Isopropyltoluene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
Butylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
Hexachlorobutadiene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichlorobenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0



Analytical Report Number: 19-44581

Project / Site name: Bowes Street

Your Order No: 32697-OJ-11813

Lab Sample Number				1239453	1239454	1239455	1239456	
Sample Reference				VB004	VB003	VS North 003	VS East 004	
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	
Date Sampled				05/06/2019	05/06/2019	05/06/2019	05/06/2019	
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					

SVOCs

Aniline	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1
Phenol	mg/kg	0.2	ISO 17025	< 0.2	< 0.2	< 0.2	< 0.2
2-Chlorophenol	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1
2-Methylphenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3
Hexachloroethane	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05
Nitrobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3
4-Methylphenol	mg/kg	0.2	NONE	< 0.2	< 0.2	< 0.2	< 0.2
Isophorone	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2
2-Nitrophenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3
Naphthalene	mg/kg	0.05	MCERTS	5.4	< 0.05	< 0.05	< 0.05
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3
4-Chloroaniline	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1
Hexachlorobutadiene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1
2,4,6-Trichlorophenol	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1
2,4,5-Trichlorophenol	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2
2-Methylnaphthalene	mg/kg	0.1	NONE	4.0	< 0.1	< 0.1	< 0.1
2-Chloronaphthalene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1
Dimethylphthalate	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1
2,6-Dinitrotoluene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthylene	mg/kg	0.05	MCERTS	0.83	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	5.8	< 0.05	< 0.05	< 0.05
2,4-Dinitrotoluene	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2
Dibenzofuran	mg/kg	0.2	MCERTS	3.2	< 0.2	< 0.2	< 0.2
4-Chlorophenyl phenyl ether	mg/kg	0.3	ISO 17025	< 0.3	< 0.3	< 0.3	< 0.3
Diethyl phthalate	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2
4-Nitroaniline	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2
Fluorene	mg/kg	0.05	MCERTS	5.1	< 0.05	< 0.05	< 0.05
Azobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2
Hexachlorobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3
Phenanthrene	mg/kg	0.05	MCERTS	38	0.43	< 0.05	< 0.05
Anthracene	mg/kg	0.05	MCERTS	8.7	< 0.05	< 0.05	< 0.05
Carbazole	mg/kg	0.3	MCERTS	2.3	< 0.3	< 0.3	< 0.3
Dibutyl phthalate	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2
Anthraquinone	mg/kg	0.3	MCERTS	0.8	< 0.3	< 0.3	< 0.3
Fluoranthene	mg/kg	0.05	MCERTS	43	0.41	< 0.05	< 0.05
Pyrene	mg/kg	0.05	MCERTS	41	0.49	< 0.05	< 0.05
Butyl benzyl phthalate	mg/kg	0.3	ISO 17025	< 0.3	< 0.3	< 0.3	< 0.3
Benzo(a)anthracene	mg/kg	0.05	MCERTS	20	0.23	< 0.05	< 0.05
Chrysene	mg/kg	0.05	MCERTS	18	0.28	< 0.05	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	18	< 0.05	< 0.05	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	13	< 0.05	< 0.05	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	19	< 0.05	< 0.05	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	8.0	< 0.05	< 0.05	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	2.4	< 0.05	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	10	< 0.05	< 0.05	< 0.05



Analytical Report Number : 19-44581

Project / Site name: Bowes Street

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
1239453	VB004	None Supplied	None Supplied	Brown clay and sand with gravel.
1239454	VB003	None Supplied	None Supplied	Brown clay and sand with gravel.
1239455	VS North 003	None Supplied	None Supplied	Brown clay and sand with gravel.
1239456	VS East 004	None Supplied	None Supplied	Brown clay and sand with gravel.



Analytical Report Number : 19-44581

Project / Site name: Bowes Street

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Water (PrW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
BTEX and MTBE in soil (Monoaromatics)	Determination of BTEX in soil by headspace GC-MS.	In-house method based on USEPA8260	L073B-PL	W	MCERTS
Moisture Content	Moisture content, determined gravimetrically.	In-house method based on BS1377 Part 2, 1990, Chemical and Electrochemical Tests	L019-UK/PL	W	NONE
Semi-volatile organic compounds in soil	Determination of semi-volatile organic compounds in soil by extraction in dichloromethane and hexane followed by GC-MS.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
Speciated EPA-16 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
TPHCWG (Soil)	Determination of hexane extractable hydrocarbons in soil by GC-MS/GC-FID.	In-house method with silica gel split/clean up.	L088/76-PL	W	MCERTS
Volatile organic compounds in soil	Determination of volatile organic compounds in soil by headspace GC-MS.	In-house method based on USEPA8260	L073B-PL	W	MCERTS

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.

For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.

Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

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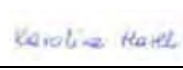
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Analytical Report Number : 19-44164

Project / Site name:	Bowes Street	Samples received on:	04/06/2019
Your job number:	11-813	Samples instructed on:	04/06/2019
Your order number:		Analysis completed by:	11/06/2019
Report Issue Number:	1	Report issued on:	11/06/2019
Samples Analysed:	4 soil samples		

Signed: 

Karolina Marek
Technical Reviewer (Reporting Team)
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting

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Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement. Application of uncertainty of measurement would provide a range within which the true result lies. An estimate of measurement uncertainty can be provided on request.

Iss No 19-44164-1 Bowes Street 11-813

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The results included within the report are representative of the samples submitted for analysis.

Page 1 of 5



Analytical Report Number: 19-44164

Project / Site name: Bowes Street

Lab Sample Number				1237500	1237501	1237502	1237503	
Sample Reference				Validation Base 101	Validation Base 102	Validation East 101	Validation East 102	
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	
Date Sampled				04/06/2019	04/06/2019	04/06/2019	04/06/2019	
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
Moisture Content	%	N/A	NONE	9.9	10	9.5	10	
Total mass of sample received	kg	0.001	NONE	0.40	0.37	0.40	0.37	

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	
Phenanthrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	0.23	
Anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	
Fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	0.23	
Pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	0.30	
Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	
Chrysene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	< 0.80	< 0.80	< 0.80	< 0.80	
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Petroleum Hydrocarbons

TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0	
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0	
TPH-CWG - Aliphatic >EC35 - EC40	mg/kg	10	NONE	< 10	< 10	< 10	< 10	

TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	
TPH-CWG - Aromatic >EC35 - EC40	mg/kg	10	NONE	< 10	< 10	< 10	< 10	
TPH Total C5 - C40	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	



Analytical Report Number: 19-44164

Project / Site name: Bowes Street

Lab Sample Number				1237500	1237501	1237502	1237503
Sample Reference				Validation Base 101	Validation Base 102	Validation East 101	Validation East 102
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				04/06/2019	04/06/2019	04/06/2019	04/06/2019
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status				

VOCs

Chloromethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl Chloride	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0
Trichlorofluoromethane	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
2,2-Dichloropropane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
Trichloromethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1-Trichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloropropene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
Trans-1,2-dichloroethene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0
Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloromethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
Dibromomethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
Bromodichloromethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichloropropane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
Dibromochloromethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromoethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
Chlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1,2-Tetrachloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
p & m-Xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
Styrene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
Tribromomethane	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
Isopropylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
Bromobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
n-Propylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
2-Chlorotoluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
4-Chlorotoluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
tert-Butylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
sec-Butylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
p-Isopropyltoluene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
Butylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
Hexachlorobutadiene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichlorobenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0



Analytical Report Number : 19-44164

Project / Site name: Bowes Street

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
1237500	idation Base 1	None Supplied	None Supplied	Brown clay and sand with gravel.
1237501	idation Base 1	None Supplied	None Supplied	Brown clay and sand with gravel.
1237502	idation East 1	None Supplied	None Supplied	Brown clay and sand with gravel.
1237503	idation East 1	None Supplied	None Supplied	Brown clay and sand with gravel.



Analytical Report Number : 19-44164

Project / Site name: Bowes Street

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Water (PrW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Moisture Content	Moisture content, determined gravimetrically.	In-house method based on BS1377 Part 2, 1990, Chemical and Electrochemical Tests	L019-UK/PL	W	NONE
Speciated EPA-16 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
TPH in (Soil)	Determination of TPH bands by HS-GC-MS/GC-FID	In-house method, TPH with carbon banding and silica gel split/cleanup.	L076-PL	D	NONE
TPHCWG (Soil)	Determination of hexane extractable hydrocarbons in soil by GC-MS/GC-FID.	In-house method with silica gel split/cleanup.	L088/76-PL	W	MCERTS
Volatile organic compounds in soil	Determination of volatile organic compounds in soil by headspace GC-MS.	In-house method based on USEPA8260	L073B-PL	W	MCERTS

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.

For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.

Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

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Analytical Report Number : 19-43182

Replaces Analytical Report Number : 19-43182, issue no. 1

Project / Site name:	Bowes Street	Samples received on:	24/05/2019
Your job number:	11-813	Samples instructed on:	29/05/2019
Your order number:	32577-OJ-11813	Analysis completed by:	11/06/2019
Report Issue Number:	2	Report issued on:	11/06/2019
Samples Analysed:	2 multiwac samples		

Signed:

Rexona Rahman
Head of Customer Services
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting

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Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement. Application of uncertainty of measurement would provide a range within which the true result lies. An estimate of measurement uncertainty can be provided on request.

Iss No 19-43182-2 Bowes Street 11-813

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The results included within the report are representative of the samples submitted for analysis.

Page 1 of 6



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Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes as defined by the Waste (England and Wales) Regulations 2011 (as amended) and EA Guidance WM3.

This analysis is only applicable for landfill acceptance criteria (The Environmental Permitting (England and Wales) Regulations) and does not give any indication as to whether a waste may be hazardous or non-hazardous.



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Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes as defined by the Waste (England and Wales) Regulations 2011 (as amended) and EA Guidance WM3.

This analysis is only applicable for landfill acceptance criteria (The Environmental Permitting (England and Wales) Regulations) and does not give any indication as to whether a waste may be hazardous or non-hazardous.



Analytical Report Number : 19-43182

Project / Site name: Bowes Street

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
1232068	WAC101 Sub	None Supplied	None Supplied	Black clay and loam with peat and vegetation.
1232069	WAC102 Sub	None Supplied	None Supplied	Black clay and loam with peat and vegetation.



Analytical Report Number : 19-43182

Project / Site name: Bowes Street

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Water (PrW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Acid neutralisation capacity of soil	Determination of acid neutralisation capacity by addition of acid or alkali followed by electronic probe.	In-house method based on Guidance on Sampling and Testing of Wastes to Meet Landfill Waste Acceptance	L046-PL	W	NONE
BTEX (Sum of BTEX compounds) in soil	Determination of BTEX in soil by headspace GC-MS. Individual components MCERTS accredited	In-house method based on USEPA8260	L073B-PL	W	MCERTS
Chloride in WAC leachate (BS EN 12457-3 Prep)	Determination of Chloride colorimetrically by discrete analyser.	In house based on MEWAM Method ISBN 0117516260.	L082-PL	W	ISO 17025
DOC in WAC leachate (BS EN 12457-3 Prep)	Determination of dissolved organic carbon in leachate by TOC/DOC NDIR analyser.	In-house method based on Standard Methods for the Examination of Water and Waste Water, 21st Ed.	L037-PL	W	NONE
Fluoride in WAC leachate (BS EN 12457-3 Prep)	Determination of fluoride in leachate by 1:1ratio with a buffer solution followed by Ion Selective Electrode.	In-house method based on Standard Methods for the Examination of Water and Waste Water, 21st Ed.	L033-PL	W	ISO 17025
Loss on ignition of soil @ 450oC	Determination of loss on ignition in soil by gravimetrically with the sample being ignited in a muffle furnace.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L047-PL	D	MCERTS
Metals in WAC leachate (BS EN 12457-3 Prep)	Determination of metals in leachate by acidification followed by ICP-OES.	In-house method based on Standard Methods for the Examination of Water and Waste Water, 21st Ed.	L039-PL	W	ISO 17025
Mineral Oil in Soil C10 - C40	Determination of dichloromethane/hexane extractable hydrocarbons in soil by GC-MS.	In-house method based on USEPA 8270	L076-PL	D	NONE
Moisture Content	Moisture content, determined gravimetrically.	In-house method based on BS1377 Part 2, 1990, Chemical and Electrochemical Tests	L019-UK/PL	W	NONE
PCB's by GC-MS in soil	Determination of PCB by extraction with acetone and hexane followed by GC-MS.	In-house method based on USEPA 8082	L027-PL	D	MCERTS
pH in soil	Determination of pH in soil by addition of water followed by electrometric measurement.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L005-PL	W	MCERTS
Phenol Index in WAC leachate (BS EN 12457-3 Prep)	Determination of monohydric phenols in leachate by continuous flow analyser.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	ISO 17025
Speciated WAC-17 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270. MCERTS accredited except Coronene.	L064-PL	D	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Sulphate in WAC leachate (BS EN 12457-3 Prep)	Determination of sulphate in leachate by acidification followed by ICP-OES.	In-house method based on Standard Methods for the Examination of Water and Waste Water, 21st Ed.	L039-PL	W	ISO 17025
TDS in WAC leachate (BS EN 12457-3 Prep)	Determination of total dissolved solids in leachate by electrometric measurement.	In-house method based on Standard Methods for the Examination of Water and Waste Water, 21st Ed.	L031-PL	W	NONE
Total organic carbon in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L023-PL	D	MCERTS

Iss No 19-43182-2 Bowes Street 11-813

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The results included within the report are representative of the samples submitted for analysis.

Page 5 of 6



Analytical Report Number : 19-43182

Project / Site name: Bowes Street

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Water (PrW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
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For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.

For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.

Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.



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Analytical Report Number : 19-43180

Project / Site name:	Bowes Street	Samples received on:	24/05/2019
Your job number:	11-813	Samples instructed on:	29/05/2019
Your order number:	32577-OJ-11813	Analysis completed by:	04/06/2019
Report Issue Number:	1	Report issued on:	04/06/2019
Samples Analysed:	2 soil samples		

Signed:

Dr Claire Stone
Quality Manager

For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting

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Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement. Application of uncertainty of measurement would provide a range within which the true result lies. An estimate of measurement uncertainty can be provided on request.

Iss No 19-43180-1 Bowes Street 11-813

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The results included within the report are representative of the samples submitted for analysis.

Page 1 of 4



Analytical Report Number: 19-43180

Project / Site name: Bowes Street

Your Order No: 32577-OJ-11813

Lab Sample Number				1232057	1232058			
Sample Reference				WAC101 Sub	WAC102 Sub			
Sample Number				None Supplied	None Supplied			
Depth (m)				None Supplied	None Supplied			
Date Sampled				24/05/2019	24/05/2019			
Time Taken				None Supplied	None Supplied			
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1			
Moisture Content	%	N/A	NONE	58	45			
Total mass of sample received	kg	0.001	NONE	0.86	1.4			

Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected			
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General Inorganics

Total Cyanide	mg/kg	1	MCERTS	< 1	1			
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Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	1.0			
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	0.49			
Acenaphthene	mg/kg	0.05	MCERTS	0.25	4.4			
Fluorene	mg/kg	0.05	MCERTS	< 0.05	4.0			
Phenanthrene	mg/kg	0.05	MCERTS	1.5	17			
Anthracene	mg/kg	0.05	MCERTS	0.55	5.9			
Fluoranthene	mg/kg	0.05	MCERTS	2.5	19			
Pyrene	mg/kg	0.05	MCERTS	2.6	19			
Benzo(a)anthracene	mg/kg	0.05	MCERTS	1.1	10			
Chrysene	mg/kg	0.05	MCERTS	1.4	8.2			
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	1.3	11			
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	0.87	3.9			
Benzo(a)pyrene	mg/kg	0.05	MCERTS	1.1	7.6			
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	0.70	5.6			
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	1.7			
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	1.1	7.7			

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	14.9	128			
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	5.9	58			
Barium (aqua regia extractable)	mg/kg	1	MCERTS	100	210			
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	0.85	2.5			
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	0.5	0.7			
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0	< 4.0			
Copper (aqua regia extractable)	mg/kg	1	MCERTS	25	290			
Lead (aqua regia extractable)	mg/kg	1	MCERTS	26	1000			
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	3.4			
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	23	36			
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	1.6	< 1.0			
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	28	52			
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	55	560			

Petroleum Hydrocarbons

TPH (C5 - C6)	mg/kg	1	NONE	< 1.0	< 1.0			
TPH (C6 - C8)	mg/kg	0.1	MCERTS	< 0.1	< 0.1			
TPH (C8 - C10)	mg/kg	0.1	MCERTS	< 0.1	1.3			
TPH (C10 - C12)	mg/kg	2	MCERTS	2.3	110			
TPH (C12 - C16)	mg/kg	4	MCERTS	31	3200			
TPH (C16 - C21)	mg/kg	1	MCERTS	67	4800			
TPH (C21 - C35)	mg/kg	1	MCERTS	200	2900			
TPH (C35 - C40)	mg/kg	10	MCERTS	14	260			
TPH Total C5 - C40	mg/kg	10	MCERTS	320	11000			



Analytical Report Number : 19-43180

Project / Site name: Bowes Street

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
1232057	WAC101 Sub	None Supplied	None Supplied	Black clay and loam with tar and vegetation.
1232058	WAC102 Sub	None Supplied	None Supplied	Black clay and loam with tar and vegetation.



Analytical Report Number : 19-43180

Project / Site name: Bowes Street

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Water (PrW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with disperion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025
D.O. for Gravimetric Quant if Screen/ID positive	Dependent option for Gravimetric Quant if Screen/ID positive scheduled.	In house asbestos methods A001 & A006.	A006-PL	D	NONE
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazine followed by colorimetry.	In-house method	L080-PL	W	MCERTS
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Moisture Content	Moisture content, determined gravimetrically.	In-house method based on BS1377 Part 2, 1990, Chemical and Electrochemical Tests	L019-UK/PL	W	NONE
Speciated EPA-16 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Sulphate, water soluble, in soil (16hr extraction)	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests, 2:1 water:soil extraction, analysis by ICP-OES.	L038-PL	D	MCERTS
Total cyanide in soil	Determination of total cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	MCERTS
TPH in (Soil)	Determination of TPH bands by HS-GC-MS/GC-FID	In-house method, TPH with carbon banding and silica gel split/cleanup.	L076-PL	D	MCERTS

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.

For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.

Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.



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Analytical Report Number : 19-36040

Project / Site name:	Bowes Street	Samples received on:	28/03/2019
Your job number:	11813	Samples instructed on:	04/04/2019
Your order number:	31963-OJ-11813	Analysis completed by:	10/04/2019
Report Issue Number:	1	Report issued on:	11/04/2019
Samples Analysed:	1 soil sample		

Signed:

Rexona Rahman
Head of Customer Services
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :	soils	- 4 weeks from reporting
	leachates	- 2 weeks from reporting
	waters	- 2 weeks from reporting
	asbestos	- 6 months from reporting

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Analytical Report Number: 19-36040

Project / Site name: Bowes Street

Your Order No: 31963-OJ-11813

Lab Sample Number				1193490				
Sample Reference				TP1				
Sample Number				None Supplied				
Depth (m)				1.50-2.00				
Date Sampled				27/03/2019				
Time Taken				None Supplied				
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1				
Moisture Content	%	N/A	NONE	22				
Total mass of sample received	kg	0.001	NONE	0.38				

PCBs by GC-MS

PCB Congener 28	mg/kg	0.001	MCERTS	< 0.001				
PCB Congener 52	mg/kg	0.001	MCERTS	< 0.001				
PCB Congener 101	mg/kg	0.001	MCERTS	< 0.001				
PCB Congener 118	mg/kg	0.001	MCERTS	< 0.001				
PCB Congener 138	mg/kg	0.001	MCERTS	< 0.001				
PCB Congener 153	mg/kg	0.001	MCERTS	< 0.001				
PCB Congener 180	mg/kg	0.001	MCERTS	< 0.001				

Total PCBs by GC-MS

Total PCBs	mg/kg	0.007	MCERTS	< 0.007				
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Analytical Report Number : 19-36040

Project / Site name: Bowes Street

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
1193490	TP1	None Supplied	1.50-2.00	Brown clay and sand with rubble and brick.



Analytical Report Number : 19-36040

Project / Site name: Bowes Street

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Water (PrW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Moisture Content	Moisture content, determined gravimetrically.	In-house method based on BS1377 Part 2, 1990, Chemical and Electrochemical Tests	L019-UK/PL	W	NONE
PCB's By GC-MS in soil	Determination of PCB by extraction with acetone and hexane followed by GC-MS.	In-house method based on USEPA 8082	L027-PL	D	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.

For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.

Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

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Analytical Report Number : 18-92831

Project / Site name:	Bowes Street	Samples received on:	16/07/2018
Your job number:	11-813	Samples instructed on:	17/07/2018
Your order number:	9278	Analysis completed by:	20/07/2018
Report Issue Number:	1	Report issued on:	20/07/2018
Samples Analysed:	3 leachate samples - 3 soil samples		

Signed:

Jordan Hill
Reporting Manager
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting

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Analytical Report Number: 18-92831
Project / Site name: Bowes Street
Your Order No: 9278

Lab Sample Number				1002207	1002208	1002209		
Sample Reference				S1 A6	S1 A7	S1 A8		
Sample Number				None Supplied	None Supplied	None Supplied		
Depth (m)				0.00-3.00	0.00-3.00	3.00-4.00		
Date Sampled				16/07/2018	16/07/2018	16/07/2018		
Time Taken				None Supplied	None Supplied	None Supplied		
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1		
Moisture Content	%	N/A	NONE	7.3	8.9	8.3		
Total mass of sample received	kg	0.001	NONE	0.45	0.48	0.44		

General Inorganics

Total Cyanide	mg/kg	1	MCERTS	< 1	< 1	< 1		
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Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.40		
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05		
Acenaphthene	mg/kg	0.05	MCERTS	0.18	0.57	0.60		
Fluorene	mg/kg	0.05	MCERTS	0.24	0.41	0.63		
Phenanthrene	mg/kg	0.05	MCERTS	1.5	3.6	3.0		
Anthracene	mg/kg	0.05	MCERTS	0.30	0.86	0.62		
Fluoranthene	mg/kg	0.05	MCERTS	1.6	6.1	3.9		
Pyrene	mg/kg	0.05	MCERTS	1.6	6.6	4.2		
Benzo(a)anthracene	mg/kg	0.05	MCERTS	0.72	3.1	1.9		
Chrysene	mg/kg	0.05	MCERTS	0.76	3.7	1.9		
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	0.92	4.2	1.9		
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	0.25	1.4	1.2		
Benzo(a)pyrene	mg/kg	0.05	MCERTS	0.74	3.6	1.9		
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	0.32	1.6	0.83		
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05		
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	0.43	2.2	1.3		

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	9.59	37.9	24.3		
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	1.4	37	6.8		
Barium (aqua regia extractable)	mg/kg	1	MCERTS	41	140	110		
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	0.81	1.7	0.86		
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2		
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0	< 4.0	< 4.0		
Copper (aqua regia extractable)	mg/kg	1	MCERTS	8.3	35	24		
Lead (aqua regia extractable)	mg/kg	1	MCERTS	12	100	54		
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3		
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	11	17	17		
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	10	30	21		
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	16	60	44		



Analytical Report Number: 18-92831
Project / Site name: Bowes Street
Your Order No: 9278

Lab Sample Number				1002207	1002208	1002209		
Sample Reference				S1 A6	S1 A7	S1 A8		
Sample Number				None Supplied	None Supplied	None Supplied		
Depth (m)				0.00-3.00	0.00-3.00	3.00-4.00		
Date Sampled				16/07/2018	16/07/2018	16/07/2018		
Time Taken				None Supplied	None Supplied	None Supplied		
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					

Monoaromatics

Benzene	ug/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
Toluene	ug/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
Ethylbenzene	ug/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
p & m-xylene	ug/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
o-xylene	ug/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
MTBE (Methyl Tertiary Butyl Ether)	ug/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		

Petroleum Hydrocarbons

TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001		
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001		
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001		
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	14	60		
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	< 8.0	26	88		
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	< 8.0	31	35		
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10	71	180		

TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001		
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001		
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001		
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	1.5	5.5	< 1.0		
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	13	38	75		
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	43	130	170		
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	64	160	100		
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	120	330	350		



Analytical Report Number: 18-92831

Project / Site name: Bowes Street

Your Order No: 9278

Lab Sample Number				1002210	1002211	1002212		
Sample Reference				S1 A6	S1 A7	S1 A8		
Sample Number				None Supplied	None Supplied	None Supplied		
Depth (m)				0.00-3.00	0.00-3.00	3.00-4.00		
Date Sampled				16/07/2018	16/07/2018	16/07/2018		
Time Taken				None Supplied	None Supplied	None Supplied		
Analytical Parameter (Leachate Analysis)	Units	Limit of detection	Accreditation Status					

General Inorganics

pH	pH Units	N/A	ISO 17025	8.0	8.9	7.9		
Total Cyanide (Low Level 1 µg/l)	µg/l	1	ISO 17025	< 1.0	1.2	< 1.0		

Total Phenols

Total Phenols (monohydric)	µg/l	1	ISO 17025	5.0	6.1	6.1		
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Speciated PAHs

Naphthalene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01		
Acenaphthylene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01		
Acenaphthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01		
Fluorene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01		
Phenanthrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01		
Anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01		
Fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01		
Pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01		
Benzo(a)anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01		
Chrysene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01		
Benzo(b)fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01		
Benzo(k)fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01		
Benzo(a)pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01		
Indeno(1,2,3-cd)pyrene	µg/l	0.01	NONE	< 0.01	< 0.01	< 0.01		
Dibenz(a,h)anthracene	µg/l	0.01	NONE	< 0.01	< 0.01	< 0.01		
Benzo(ghi)perylene	µg/l	0.01	NONE	< 0.01	< 0.01	< 0.01		

Total PAH

Total EPA-16 PAHs	µg/l	0.2	NONE	< 0.2	< 0.2	< 0.2		
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Heavy Metals / Metalloids

Arsenic (dissolved)	µg/l	1.1	ISO 17025	1.4	8.6	1.9		
Cadmium (dissolved)	µg/l	0.08	ISO 17025	< 0.08	< 0.08	< 0.08		
Chromium (hexavalent)	µg/l	5	NONE	< 5.0	< 5.0	< 5.0		
Chromium (dissolved)	µg/l	0.4	ISO 17025	< 0.4	2.2	0.5		
Copper (dissolved)	µg/l	0.7	ISO 17025	22	43	42		
Lead (dissolved)	µg/l	1	ISO 17025	< 1.0	2.4	< 1.0		
Mercury (dissolved)	µg/l	0.5	ISO 17025	< 0.5	< 0.5	< 0.5		
Nickel (dissolved)	µg/l	0.3	ISO 17025	1.7	2.7	3.6		
Selenium (dissolved)	µg/l	4	ISO 17025	< 4.0	< 4.0	< 4.0		
Zinc (dissolved)	µg/l	0.4	ISO 17025	9.2	9.6	11		



Analytical Report Number: 18-92831

Project / Site name: Bowes Street

Your Order No: 9278

Lab Sample Number				1002210	1002211	1002212		
Sample Reference				S1 A6	S1 A7	S1 A8		
Sample Number				None Supplied	None Supplied	None Supplied		
Depth (m)				0.00-3.00	0.00-3.00	3.00-4.00		
Date Sampled				16/07/2018	16/07/2018	16/07/2018		
Time Taken				None Supplied	None Supplied	None Supplied		
Analytical Parameter (Leachate Analysis)				Units	Limit of detection	Accreditation Status		

Monoaromatics

Benzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
Toluene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
Ethylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
p & m-xylene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
o-xylene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
MTBE (Methyl Tertiary Butyl Ether)	µg/l	10	NONE	< 10	< 10	< 10		

Petroleum Hydrocarbons

TPH1 (C10 - C40)	µg/l	10	NONE	< 10	< 10	< 10		
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TPH-CWG - Aliphatic >C5 - C6	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
TPH-CWG - Aliphatic >C6 - C8	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
TPH-CWG - Aliphatic >C8 - C10	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
TPH-CWG - Aliphatic >C10 - C12	µg/l	10	NONE	< 10	< 10	< 10		
TPH-CWG - Aliphatic >C12 - C16	µg/l	10	NONE	< 10	< 10	< 10		
TPH-CWG - Aliphatic >C16 - C21	µg/l	10	NONE	< 10	< 10	< 10		
TPH-CWG - Aliphatic >C21 - C35	µg/l	10	NONE	< 10	< 10	< 10		
TPH-CWG - Aliphatic (C5 - C35)	µg/l	10	NONE	< 10	< 10	< 10		

TPH-CWG - Aromatic >C5 - C7	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
TPH-CWG - Aromatic >C7 - C8	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
TPH-CWG - Aromatic >C8 - C10	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
TPH-CWG - Aromatic >C10 - C12	µg/l	10	NONE	< 10	< 10	< 10		
TPH-CWG - Aromatic >C12 - C16	µg/l	10	NONE	< 10	< 10	< 10		
TPH-CWG - Aromatic >C16 - C21	µg/l	10	NONE	< 10	< 10	< 10		
TPH-CWG - Aromatic >C21 - C35	µg/l	10	NONE	< 10	< 10	< 10		
TPH-CWG - Aromatic (C5 - C35)	µg/l	10	NONE	< 10	< 10	< 10		



Analytical Report Number : 18-92831

Project / Site name: Bowes Street

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
1002207	S1 A6	None Supplied	0.00-3.00	Brown clay and sand with gravel.
1002208	S1 A7	None Supplied	0.00-3.00	Brown loam and clay with brick and rubble.
1002209	S1 A8	None Supplied	3.00-4.00	Brown clay and loam with rubble.

Analytical Report Number : 18-92831

Project / Site name: Bowes Street

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Water (PrW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
BS EN 12457-1 (2:1) Leachate Prep	2:1 (as recieved, moisture adjusted) end over end extraction with water for 24 hours. Eluate filtered prior to analysis.	In-house method based on BSEN12457-1.	L043-PL	W	NONE
BTEX and MTBE in leachates (Monoaromatics)	Determination of BTEX and MTBE in leachates by headspace GC-MS.	In-house method based on USEPA8260	L073B-PL	W	ISO 17025
BTEX and MTBE in soil (Monoaromatics)	Determination of BTEX in soil by headspace GC-MS.	In-house method based on USEPA8260	L073B-PL	W	MCERTS
Hexavalent chromium in leachate	Determination of hexavalent chromium in leachate by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry.	In-house method	L080-PL	W	NONE
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry.	In-house method	L080-PL	W	MCERTS
Metals by ICP-OES in leachate	Determination of metals in leachate by acidification followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L039-PL	W	ISO 17025
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Moisture Content	Moisture content, determined gravimetrically.	In-house method based on BS1377 Part 2, 1990, Chemical and Electrochemical Tests	L019-UK/PL	W	NONE
Monohydric phenols in leachate - LOW LEVEL 1 ug/l	Determination of phenols in leachate by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	ISO 17025
pH at 20oC in leachate	Determination of pH in leachate by electrometric measurement.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L005-PL	W	ISO 17025
Speciated EPA-16 PAHs in leachate	Determination of PAH compounds in leachate by extraction in dichloromethane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L102B-PL	W	NONE
Speciated EPA-16 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Total cyanide in leachate - 1µg/l	Determination of total cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	ISO 17025
Total cyanide in soil	Determination of total cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	MCERTS
TPH1 (Leachates)	Determination of dichloromethane extractable hydrocarbons in leachate by GC-MS.	In-house method	L070-PL	W	NONE
TPHCWG (Soil)	Determination of hexane extractable hydrocarbons in soil by GC-MS/GC-FID.	In-house method	L088/76-PL	W	MCERTS

Iss No 18-92831-1 Bowes Street 11-813

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The results included within the report are representative of the samples submitted for analysis.

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Analytical Report Number : 18-92831

Project / Site name: Bowes Street

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Water (PrW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
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For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.

For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.

Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

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Analytical Report Number : 18-91525

Project / Site name:	Bowes Street	Samples received on:	04/07/2018
Your job number:	11-813	Samples instructed on:	04/07/2018
Your order number:	11-813-9174-OJ	Analysis completed by:	11/07/2018
Report Issue Number:	1	Report issued on:	11/07/2018
Samples Analysed:	12 leachate samples - 12 soil samples		

Signed:

Jordan Hill
Reporting Manager
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting

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Analytical Report Number: 18-91525

Project / Site name: Bowes Street

Your Order No: 11-813-9174-OJ

Lab Sample Number				995564	995565	995566	995567	995568
Sample Reference				Source1-VS004	Source1-VS005	Source1-VS006	Source1-VS007	Source1-VS008
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				3.00-4.00	3.00-4.00	3.00-4.00	3.00-4.00	3.00-4.00
Date Sampled				04/07/2018	04/07/2018	04/07/2018	04/07/2018	04/07/2018
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	N/A	NONE	11	8.5	8.7	9.7	3.3
Total mass of sample received	kg	0.001	NONE	1.2	1.3	1.1	1.1	1.2

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	0.50	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	1.6	0.40	< 0.05	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	2.3	0.36	< 0.05	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	8.8	2.6	< 0.05	< 0.05	< 0.05
Anthracene	mg/kg	0.05	MCERTS	1.6	0.53	< 0.05	< 0.05	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	6.4	3.1	< 0.05	< 0.05	< 0.05
Pyrene	mg/kg	0.05	MCERTS	6.6	3.3	< 0.05	< 0.05	< 0.05
Benzo(a)anthracene	mg/kg	0.05	MCERTS	2.7	1.5	< 0.05	< 0.05	< 0.05
Chrysene	mg/kg	0.05	MCERTS	2.5	1.7	< 0.05	< 0.05	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	2.4	1.7	< 0.05	< 0.05	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	0.73	0.92	< 0.05	< 0.05	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	1.9	1.5	< 0.05	< 0.05	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	0.97	0.64	< 0.05	< 0.05	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	0.24	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	1.1	0.78	< 0.05	< 0.05	< 0.05

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	40.1	19.0	< 0.80	< 0.80	< 0.80
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Petroleum Hydrocarbons

TPH (C5 - C6)	mg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH (C6 - C8)	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH (C8 - C10)	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH (C10 - C12)	mg/kg	2	MCERTS	20	3.4	< 2.0	< 2.0	2.9
TPH (C12 - C16)	mg/kg	4	MCERTS	710	71	< 4.0	< 4.0	79
TPH (C16 - C21)	mg/kg	1	MCERTS	1500	230	< 1.0	< 1.0	170
TPH (C21 - C35)	mg/kg	1	MCERTS	610	270	< 1.0	< 1.0	350
TPH (C35 - C40)	mg/kg	10	MCERTS	53	63	< 10	< 10	23
TPH Total C5 - C40	mg/kg	10	MCERTS	2900	640	< 10	< 10	630



Analytical Report Number: 18-91525
Project / Site name: Bowes Street
Your Order No: 11-813-9174-OJ

Lab Sample Number				995569	995570	995571	995572	995573
Sample Reference				Source1-VS009	Source1-VS010	S1 A1	S1 A2	S1 A3
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				3.00-4.00	3.00-4.00	0.00-3.00	0.00-3.00	0.00-3.00
Date Sampled				04/07/2018	04/07/2018	04/07/2018	04/07/2018	04/07/2018
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	N/A	NONE	4.0	5.6	6.3	8.3	7.1
Total mass of sample received	kg	0.001	NONE	1.2	1.2	1.2	1.1	1.1

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	2.9	< 0.05	0.47	1.4	0.70
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	3.6	< 0.05	0.89	2.3	2.0
Fluorene	mg/kg	0.05	MCERTS	3.9	< 0.05	0.70	1.8	1.5
Phenanthrene	mg/kg	0.05	MCERTS	13	0.60	5.0	14	11
Anthracene	mg/kg	0.05	MCERTS	3.2	0.14	1.3	2.9	2.9
Fluoranthene	mg/kg	0.05	MCERTS	7.7	0.58	5.3	11	12
Pyrene	mg/kg	0.05	MCERTS	7.4	0.56	5.2	10	13
Benzo(a)anthracene	mg/kg	0.05	MCERTS	2.7	0.28	2.4	4.9	6.4
Chrysene	mg/kg	0.05	MCERTS	2.6	0.20	2.3	4.4	5.3
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	2.5	0.22	2.4	4.5	6.8
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	0.79	0.13	0.87	1.6	1.7
Benzo(a)pyrene	mg/kg	0.05	MCERTS	1.9	0.17	2.0	3.7	5.1
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	0.92	< 0.05	0.99	1.9	2.6
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	0.29	< 0.05	0.31	0.58	0.90
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	1.1	< 0.05	1.1	2.1	3.0

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	55.0	2.88	31.3	67.3	74.8
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Petroleum Hydrocarbons

TPH (C5 - C6)	mg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH (C6 - C8)	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH (C8 - C10)	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH (C10 - C12)	mg/kg	2	MCERTS	460	< 2.0	2.9	3.5	5.9
TPH (C12 - C16)	mg/kg	4	MCERTS	5000	< 4.0	71	49	120
TPH (C16 - C21)	mg/kg	1	MCERTS	5700	10	270	170	370
TPH (C21 - C35)	mg/kg	1	MCERTS	3900	25	490	330	760
TPH (C35 - C40)	mg/kg	10	MCERTS	340	< 10	73	59	80
TPH Total C5 - C40	mg/kg	10	MCERTS	16000	37	910	620	1300



Analytical Report Number: 18-91525
Project / Site name: Bowes Street
Your Order No: 11-813-9174-OJ

Lab Sample Number				995574	995575			
Sample Reference				S1 A4	S1 A5			
Sample Number				None Supplied	None Supplied			
Depth (m)				3.00-4.00	3.00-4.00			
Date Sampled				04/07/2018	04/07/2018			
Time Taken				None Supplied	None Supplied			
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1			
Moisture Content	%	N/A	NONE	13	13			
Total mass of sample received	kg	0.001	NONE	1.1	1.1			

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	0.32	0.49			
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05			
Acenaphthene	mg/kg	0.05	MCERTS	0.75	1.2			
Fluorene	mg/kg	0.05	MCERTS	0.69	1.1			
Phenanthrene	mg/kg	0.05	MCERTS	4.5	5.5			
Anthracene	mg/kg	0.05	MCERTS	1.1	1.4			
Fluoranthene	mg/kg	0.05	MCERTS	5.0	6.0			
Pyrene	mg/kg	0.05	MCERTS	4.8	6.0			
Benzo(a)anthracene	mg/kg	0.05	MCERTS	2.1	2.6			
Chrysene	mg/kg	0.05	MCERTS	2.1	2.4			
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	2.3	2.7			
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	0.55	0.69			
Benzo(a)pyrene	mg/kg	0.05	MCERTS	1.7	2.1			
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	0.88	1.1			
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	0.29	0.37			
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	1.1	1.3			

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	28.1	35.0			
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Petroleum Hydrocarbons

TPH (C5 - C6)	mg/kg	1	NONE	< 1.0	< 1.0			
TPH (C6 - C8)	mg/kg	0.1	MCERTS	< 0.1	< 0.1			
TPH (C8 - C10)	mg/kg	0.1	MCERTS	< 0.1	0.2			
TPH (C10 - C12)	mg/kg	2	MCERTS	7.3	18			
TPH (C12 - C16)	mg/kg	4	MCERTS	250	430			
TPH (C16 - C21)	mg/kg	1	MCERTS	460	640			
TPH (C21 - C35)	mg/kg	1	MCERTS	330	310			
TPH (C35 - C40)	mg/kg	10	MCERTS	51	37			
TPH Total C5 - C40	mg/kg	10	MCERTS	1100	1500			



Analytical Report Number: 18-91525

Project / Site name: Bowes Street

Your Order No: 11-813-9174-01

Lab Sample Number	995576	995577	995578	995579	995580
Sample Reference	Source1-VS004	Source1-VS005	Source1-VS006	Source1-VS007	Source1-VS008
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)	3.00-4.00	3.00-4.00	3.00-4.00	3.00-4.00	3.00-4.00
Date Sampled	04/07/2018	04/07/2018	04/07/2018	04/07/2018	04/07/2018
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Leachate Analysis)	Units	Limit of detection	Accreditation Status		

General Inorganics

pH	pH Units	N/A	ISO 17025	8.0	7.6	7.5	7.6	7.5
Total Cyanide (Low Level 1 µg/l)	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Total Phenols

Total Phenols (monohydric)	µg/l	1	ISO 17025	3.2	1.9	1.8	< 1.0	12
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Speciated PAHs

Naphthalene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Acenaphthylene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Acenaphthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Fluorene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Phenanthrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(a)anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Chrysene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(b)fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(k)fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(a)pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Indeno(1,2,3-cd)pyrene	µg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Dibenz(a,h)anthracene	µg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(ghi)perylene	µg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01

Total PAH

Total EPA-16 PAHs	µg/l	0.2	NONE	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
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Heavy Metals / Metalloids

Arsenic (dissolved)	µg/l	1.1	ISO 17025	< 1.1	1.3	< 1.1	< 1.1	< 1.1
Cadmium (dissolved)	µg/l	0.08	ISO 17025	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08
Chromium (hexavalent)	µg/l	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Chromium (dissolved)	µg/l	0.4	ISO 17025	0.9	0.7	1.6	1.5	2.2
Copper (dissolved)	µg/l	0.7	ISO 17025	21	11	7.9	11	11
Lead (dissolved)	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	1.9	< 1.0
Mercury (dissolved)	µg/l	0.5	ISO 17025	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Nickel (dissolved)	µg/l	0.3	ISO 17025	3.0	1.8	1.1	4.7	13
Selenium (dissolved)	µg/l	4	ISO 17025	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
Zinc (dissolved)	µg/l	0.4	ISO 17025	19	22	16	6.4	8.4



Analytical Report Number: 18-91525

Project / Site name: Bowes Street

Your Order No: 11-813-9174-OJ

Lab Sample Number	995576	995577	995578	995579	995580
Sample Reference	Source1-VS004	Source1-VS005	Source1-VS006	Source1-VS007	Source1-VS008
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)	3.00-4.00	3.00-4.00	3.00-4.00	3.00-4.00	3.00-4.00
Date Sampled	04/07/2018	04/07/2018	04/07/2018	04/07/2018	04/07/2018
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Leachate Analysis)	Units	Limit of detection	Accreditation Status		

Monoaromatics

Benzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p & m-xylene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-xylene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10

Petroleum Hydrocarbons

TPH1 (C10 - C40)	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
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TPH-CWG - Aliphatic >C5 - C6	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aliphatic >C6 - C8	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aliphatic >C8 - C10	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aliphatic >C10 - C12	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic >C12 - C16	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic >C16 - C21	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic >C21 - C35	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic (C5 - C35)	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10

TPH-CWG - Aromatic >C5 - C7	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aromatic >C7 - C8	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aromatic >C8 - C10	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aromatic >C10 - C12	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >C12 - C16	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >C16 - C21	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >C21 - C35	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic (C5 - C35)	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10



Analytical Report Number: 18-91525

Project / Site name: Bowes Street

Your Order No: 11-813-9174-01

Lab Sample Number	995581	995582	995583	995584	995585
Sample Reference	Source1-VS009	Source1-VS010	S1 A1	S1 A2	S1 A3
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)	3.00-4.00	3.00-4.00	0.00-3.00	0.00-3.00	0.00-3.00
Date Sampled	04/07/2018	04/07/2018	04/07/2018	04/07/2018	04/07/2018
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Leachate Analysis)	Units	Limit of detection	Accreditation Status		

General Inorganics

pH	pH Units	N/A	ISO 17025	7.8	7.7	8.0	8.7	9.2
Total Cyanide (Low Level 1 µg/l)	µg/l	1	ISO 17025	3.7	< 1.0	< 1.0	5.0	1.5

Total Phenols

Total Phenols (monohydric)	µg/l	1	ISO 17025	26	8.1	3.0	1.8	4.4
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Speciated PAHs

Naphthalene	µg/l	0.01	ISO 17025	< 0.01	3.4	0.29	< 0.01	< 0.01
Acenaphthylene	µg/l	0.01	ISO 17025	< 0.01	0.38	< 0.01	< 0.01	< 0.01
Acenaphthene	µg/l	0.01	ISO 17025	0.95	0.37	0.57	0.48	< 0.01
Fluorene	µg/l	0.01	ISO 17025	0.54	0.33	0.36	0.25	< 0.01
Phenanthrene	µg/l	0.01	ISO 17025	0.61	0.25	0.34	0.34	< 0.01
Anthracene	µg/l	0.01	ISO 17025	< 0.01	0.13	0.12	0.39	< 0.01
Fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(a)anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Chrysene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(b)fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(k)fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(a)pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Indeno(1,2,3-cd)pyrene	µg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Dibenz(a,h)anthracene	µg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(ghi)perylene	µg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01

Total PAH

Total EPA-16 PAHs	µg/l	0.2	NONE	2.1	4.8	1.7	1.5	< 0.2
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Heavy Metals / Metalloids

Arsenic (dissolved)	µg/l	1.1	ISO 17025	7.8	4.3	11	14	17
Cadmium (dissolved)	µg/l	0.08	ISO 17025	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08
Chromium (hexavalent)	µg/l	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Chromium (dissolved)	µg/l	0.4	ISO 17025	1.2	3.0	2.0	2.5	4.9
Copper (dissolved)	µg/l	0.7	ISO 17025	26	36	36	70	45
Lead (dissolved)	µg/l	1	ISO 17025	< 1.0	1.3	2.2	3.9	4.1
Mercury (dissolved)	µg/l	0.5	ISO 17025	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Nickel (dissolved)	µg/l	0.3	ISO 17025	4.5	5.1	7.0	9.5	4.3
Selenium (dissolved)	µg/l	4	ISO 17025	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
Zinc (dissolved)	µg/l	0.4	ISO 17025	11	17	19	11	18



Analytical Report Number: 18-91525

Project / Site name: Bowes Street

Your Order No: 11-813-9174-OJ

Lab Sample Number	995581	995582	995583	995584	995585
Sample Reference	Source1-VS009	Source1-VS010	S1 A1	S1 A2	S1 A3
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)	3.00-4.00	3.00-4.00	0.00-3.00	0.00-3.00	0.00-3.00
Date Sampled	04/07/2018	04/07/2018	04/07/2018	04/07/2018	04/07/2018
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Leachate Analysis)	Units	Limit of detection	Accreditation Status		

Monoaromatics

Benzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p & m-xylene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-xylene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10

Petroleum Hydrocarbons

TPH1 (C10 - C40)	µg/l	10	NONE	200	< 10	< 10	< 10	< 10
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TPH-CWG - Aliphatic >C5 - C6	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aliphatic >C6 - C8	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aliphatic >C8 - C10	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aliphatic >C10 - C12	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic >C12 - C16	µg/l	10	NONE	90	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic >C16 - C21	µg/l	10	NONE	80	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic >C21 - C35	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic (C5 - C35)	µg/l	10	NONE	170	< 10	< 10	< 10	< 10

TPH-CWG - Aromatic >C5 - C7	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aromatic >C7 - C8	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aromatic >C8 - C10	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aromatic >C10 - C12	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >C12 - C16	µg/l	10	NONE	25	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >C16 - C21	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >C21 - C35	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic (C5 - C35)	µg/l	10	NONE	25	< 10	< 10	< 10	< 10



Analytical Report Number: 18-91525

Project / Site name: Bowes Street

Your Order No: 11-813-9174-0J

Lab Sample Number				995586	995587			
Sample Reference				S1 A4	S1 A5			
Sample Number				None Supplied	None Supplied			
Depth (m)				3.00-4.00	3.00-4.00			
Date Sampled				04/07/2018	04/07/2018			
Time Taken				None Supplied	None Supplied			
Analytical Parameter (Leachate Analysis)				Units	Limit of detection	Accreditation Status		

General Inorganics

pH	pH Units	N/A	ISO 17025	8.0	7.9			
Total Cyanide (Low Level 1 µg/l)	µg/l	1	ISO 17025	< 1.0	< 1.0			

Total Phenols

Total Phenols (monohydric)	µg/l	1	ISO 17025	6.9	6.8			
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Speciated PAHs

Naphthalene	µg/l	0.01	ISO 17025	< 0.01	< 0.01			
Acenaphthylene	µg/l	0.01	ISO 17025	< 0.01	< 0.01			
Acenaphthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01			
Fluorene	µg/l	0.01	ISO 17025	< 0.01	< 0.01			
Phenanthrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01			
Anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01			
Fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01			
Pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01			
Benzo(a)anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01			
Chrysene	µg/l	0.01	ISO 17025	< 0.01	< 0.01			
Benzo(b)fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01			
Benzo(k)fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01			
Benzo(a)pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01			
Indeno(1,2,3-cd)pyrene	µg/l	0.01	NONE	< 0.01	< 0.01			
Dibenz(a,h)anthracene	µg/l	0.01	NONE	< 0.01	< 0.01			
Benzo(ghi)perylene	µg/l	0.01	NONE	< 0.01	< 0.01			

Total PAH

Total EPA-16 PAHs	µg/l	0.2	NONE	< 0.2	< 0.2			
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Heavy Metals / Metalloids

Arsenic (dissolved)	µg/l	1.1	ISO 17025	3.1	1.7			
Cadmium (dissolved)	µg/l	0.08	ISO 17025	< 0.08	< 0.08			
Chromium (hexavalent)	µg/l	5	NONE	< 5.0	< 5.0			
Chromium (dissolved)	µg/l	0.4	ISO 17025	1.2	2.9			
Copper (dissolved)	µg/l	0.7	ISO 17025	25	20			
Lead (dissolved)	µg/l	1	ISO 17025	1.6	< 1.0			
Mercury (dissolved)	µg/l	0.5	ISO 17025	< 0.5	< 0.5			
Nickel (dissolved)	µg/l	0.3	ISO 17025	3.6	4.0			
Selenium (dissolved)	µg/l	4	ISO 17025	< 4.0	< 4.0			
Zinc (dissolved)	µg/l	0.4	ISO 17025	8.3	12			



Analytical Report Number: 18-91525

Project / Site name: Bowes Street

Your Order No: 11-813-9174-OJ

Lab Sample Number				995586	995587			
Sample Reference				S1 A4	S1 A5			
Sample Number				None Supplied	None Supplied			
Depth (m)				3.00-4.00	3.00-4.00			
Date Sampled				04/07/2018	04/07/2018			
Time Taken				None Supplied	None Supplied			
Analytical Parameter (Leachate Analysis)				Units	Limit of detection	Accreditation Status		

Monoaromatics

Benzene	µg/l	1	ISO 17025	< 1.0	< 1.0			
Toluene	µg/l	1	ISO 17025	< 1.0	< 1.0			
Ethylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0			
p & m-xylene	µg/l	1	ISO 17025	< 1.0	< 1.0			
o-xylene	µg/l	1	ISO 17025	< 1.0	< 1.0			
MTBE (Methyl Tertiary Butyl Ether)	µg/l	10	NONE	< 10	< 10			

Petroleum Hydrocarbons

TPH1 (C10 - C40)	µg/l	10	NONE	38	33			
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TPH-CWG - Aliphatic >C5 - C6	µg/l	1	ISO 17025	< 1.0	< 1.0			
TPH-CWG - Aliphatic >C6 - C8	µg/l	1	ISO 17025	< 1.0	< 1.0			
TPH-CWG - Aliphatic >C8 - C10	µg/l	1	ISO 17025	< 1.0	< 1.0			
TPH-CWG - Aliphatic >C10 - C12	µg/l	10	NONE	< 10	< 10			
TPH-CWG - Aliphatic >C12 - C16	µg/l	10	NONE	< 10	< 10			
TPH-CWG - Aliphatic >C16 - C21	µg/l	10	NONE	< 10	< 10			
TPH-CWG - Aliphatic >C21 - C35	µg/l	10	NONE	< 10	< 10			
TPH-CWG - Aliphatic (C5 - C35)	µg/l	10	NONE	< 10	< 10			

TPH-CWG - Aromatic >C5 - C7	µg/l	1	ISO 17025	< 1.0	< 1.0			
TPH-CWG - Aromatic >C7 - C8	µg/l	1	ISO 17025	< 1.0	< 1.0			
TPH-CWG - Aromatic >C8 - C10	µg/l	1	ISO 17025	< 1.0	< 1.0			
TPH-CWG - Aromatic >C10 - C12	µg/l	10	NONE	< 10	< 10			
TPH-CWG - Aromatic >C12 - C16	µg/l	10	NONE	38	33			
TPH-CWG - Aromatic >C16 - C21	µg/l	10	NONE	< 10	< 10			
TPH-CWG - Aromatic >C21 - C35	µg/l	10	NONE	< 10	< 10			
TPH-CWG - Aromatic (C5 - C35)	µg/l	10	NONE	38	33			



Analytical Report Number : 18-91525

Project / Site name: Bowes Street

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
995564	Source1-VS004	None Supplied	3.00-4.00	Brown clay and sand.
995565	Source1-VS005	None Supplied	3.00-4.00	Brown clay and sand.
995566	Source1-VS006	None Supplied	3.00-4.00	Brown clay and sand.
995567	Source1-VS007	None Supplied	3.00-4.00	Brown clay and sand.
995568	Source1-VS008	None Supplied	3.00-4.00	Brown sand.
995569	Source1-VS009	None Supplied	3.00-4.00	Brown sand with gravel.
995570	Source1-VS010	None Supplied	3.00-4.00	Red sand.
995571	S1 A1	None Supplied	0.00-3.00	Brown clay and sand with gravel.
995572	S1 A2	None Supplied	0.00-3.00	Brown clay and sand with gravel.
995573	S1 A3	None Supplied	0.00-3.00	Brown loam and sand with gravel.
995574	S1 A4	None Supplied	3.00-4.00	Brown clay and sand.
995575	S1 A5	None Supplied	3.00-4.00	Brown clay and sand.

Analytical Report Number : 18-91525

Project / Site name: Bowes Street

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Water (PrW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
BS EN 12457-1 (2:1) Leachate Prep	2:1 (as recieved, moisture adjusted) end over end extraction with water for 24 hours. Eluate filtered prior to analysis.	In-house method based on BSEN12457-1.	L043-PL	W	NONE
BTEX and MTBE in leachates (Monoaromatics)	Determination of BTEX and MTBE in leachates by headspace GC-MS.	In-house method based on USEPA8260	L073B-PL	W	ISO 17025
Hexavalent chromium in leachate	Determination of hexavalent chromium in leachate by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry.	In-house method	L080-PL	W	NONE
Metals by ICP-OES in leachate	Determination of metals in leachate by acidification followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L039-PL	W	ISO 17025
Moisture Content	Moisture content, determined gravimetrically.	In-house method based on BS1377 Part 2, 1990, Chemical and Electrochemical Tests	L019-UK/PL	W	NONE
Monohydric phenols in leachate - LOW LEVEL 1 ug/l	Determination of phenols in leachate by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	ISO 17025
pH at 20oC in leachate	Determination of pH in leachate by electrometric measurement.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L005-PL	W	ISO 17025
Speciated EPA-16 PAHs in leachate	Determination of PAH compounds in leachate by extraction in dichloromethane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L102B-PL	W	NONE
Speciated EPA-16 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Total cyanide in leachate - 1µg/l	Determination of total cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	ISO 17025
TPH in (Soil)	Determination of TPH bands by HS-GC-MS/GC-FID	In-house method, TPH with carbon banding.	L076-PL	D	MCERTS
TPH1 (Leachates)	Determination of dichloromethane extractable hydrocarbons in leachate by GC-MS.	In-house method	L070-PL	W	NONE

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.

For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.

Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

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Analytical Report Number : 18-89732

Project / Site name:	Bowes Street	Samples received on:	20/06/2018
Your job number:	11-813	Samples instructed on:	20/06/2018
Your order number:	11-813-9035-OJ	Analysis completed by:	27/06/2018
Report Issue Number:	1	Report issued on:	27/06/2018
Samples Analysed:	6 leachate samples - 6 soil samples		

Signed:

Jordan Hill
Reporting Manager
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting

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Analytical Report Number: 18-89732

Project / Site name: Bowes Street

Your Order No: 11-813-9035-OJ

Lab Sample Number				986211	986212	986213	986214	986215
Sample Reference				Source1-001	Source1-002	Source1-003	Source1-004	Source1-VB001
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.00-1.00	0.00-1.00	2.00-4.00	2.00-4.00	4.00
Date Sampled				19/06/2018	19/06/2018	19/06/2018	19/06/2018	19/06/2018
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	N/A	NONE	7.7	12	13	13	16
Total mass of sample received	kg	0.001	NONE	1.1	1.1	1.2	1.2	0.55

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	0.37	< 0.05	1.3	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	0.12	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	0.79	1.2	< 0.05	2.1	< 0.05
Fluorene	mg/kg	0.05	MCERTS	0.73	1.1	1.5	1.7	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	7.0	6.9	6.3	11	< 0.05
Anthracene	mg/kg	0.05	MCERTS	1.6	1.5	1.4	2.3	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	9.1	6.8	5.6	9.7	< 0.05
Pyrene	mg/kg	0.05	MCERTS	9.7	6.6	5.6	9.3	< 0.05
Benzo(a)anthracene	mg/kg	0.05	MCERTS	4.6	3.2	2.5	4.6	< 0.05
Chrysene	mg/kg	0.05	MCERTS	5.2	2.9	2.3	4.2	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	4.7	3.6	3.2	4.7	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	2.7	1.4	0.86	2.1	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	4.9	3.3	2.6	4.3	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	2.4	1.7	1.2	2.0	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	0.59	0.50	0.34	0.55	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	3.0	2.0	1.6	2.6	< 0.05

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	57.0	43.2	35.0	62.3	< 0.80
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Petroleum Hydrocarbons

TPH (C5 - C6)	mg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH (C6 - C8)	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH (C8 - C10)	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	1.6	0.4
TPH (C10 - C12)	mg/kg	2	MCERTS	3.0	7.1	11	5.3	8.7
TPH (C12 - C16)	mg/kg	4	MCERTS	33	170	520	300	240
TPH (C16 - C21)	mg/kg	1	MCERTS	160	290	820	480	260
TPH (C21 - C35)	mg/kg	1	MCERTS	350	250	300	330	39
TPH (C35 - C40)	mg/kg	10	MCERTS	42	26	21	25	< 10
TPH Total C5 - C40	mg/kg	10	MCERTS	590	760	1700	1200	550



Analytical Report Number: 18-89732

Project / Site name: Bowes Street

Your Order No: 11-813-9035-OJ

Lab Sample Number				986216				
Sample Reference				Source1-VS001				
Sample Number				None Supplied				
Depth (m)				3.00-4.00				
Date Sampled				19/06/2018				
Time Taken				None Supplied				
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1				
Moisture Content	%	N/A	NONE	12				
Total mass of sample received	kg	0.001	NONE	0.48				

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05				
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05				
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05				
Fluorene	mg/kg	0.05	MCERTS	< 0.05				
Phenanthrene	mg/kg	0.05	MCERTS	< 0.05				
Anthracene	mg/kg	0.05	MCERTS	< 0.05				
Fluoranthene	mg/kg	0.05	MCERTS	< 0.05				
Pyrene	mg/kg	0.05	MCERTS	< 0.05				
Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05				
Chrysene	mg/kg	0.05	MCERTS	< 0.05				
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	< 0.05				
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	< 0.05				
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05				
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05				
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05				
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05				

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	< 0.80				
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Petroleum Hydrocarbons

TPH (C5 - C6)	mg/kg	1	NONE	< 1.0				
TPH (C6 - C8)	mg/kg	0.1	MCERTS	< 0.1				
TPH (C8 - C10)	mg/kg	0.1	MCERTS	< 0.1				
TPH (C10 - C12)	mg/kg	2	MCERTS	< 2.0				
TPH (C12 - C16)	mg/kg	4	MCERTS	< 4.0				
TPH (C16 - C21)	mg/kg	1	MCERTS	5.6				
TPH (C21 - C35)	mg/kg	1	MCERTS	3.2				
TPH (C35 - C40)	mg/kg	10	MCERTS	< 10				
TPH Total C5 - C40	mg/kg	10	MCERTS	11				



Analytical Report Number: 18-89732

Project / Site name: Bowes Street

Your Order No: 11-813-9035-OJ

Lab Sample Number	986217	986218	986219	986220	986221
Sample Reference	Source1-001	Source1-002	Source1-003	Source1-004	Source1-VB001
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)	0.00-1.00	0.00-1.00	2.00-4.00	2.00-4.00	None Supplied
Date Sampled	19/06/2018	19/06/2018	19/06/2018	19/06/2018	19/06/2018
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Leachate Analysis)	Units	Limit of detection	Accreditation Status		

General Inorganics

pH	pH Units	N/A	ISO 17025	-	-	-	-	8.1
Total Cyanide (Low Level 1 µg/l)	µg/l	1	ISO 17025	-	-	-	-	< 1.0

Total Phenols

Total Phenols (monohydric)	µg/l	1	ISO 17025	-	-	-	-	6.0
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Speciated PAHs

Naphthalene	µg/l	0.01	ISO 17025	-	-	-	-	< 0.01
Acenaphthylene	µg/l	0.01	ISO 17025	-	-	-	-	< 0.01
Acenaphthene	µg/l	0.01	ISO 17025	-	-	-	-	< 0.01
Fluorene	µg/l	0.01	ISO 17025	-	-	-	-	< 0.01
Phenanthrene	µg/l	0.01	ISO 17025	-	-	-	-	< 0.01
Anthracene	µg/l	0.01	ISO 17025	-	-	-	-	< 0.01
Fluoranthene	µg/l	0.01	ISO 17025	-	-	-	-	< 0.01
Pyrene	µg/l	0.01	ISO 17025	-	-	-	-	< 0.01
Benzo(a)anthracene	µg/l	0.01	ISO 17025	-	-	-	-	< 0.01
Chrysene	µg/l	0.01	ISO 17025	-	-	-	-	< 0.01
Benzo(b)fluoranthene	µg/l	0.01	ISO 17025	-	-	-	-	< 0.01
Benzo(k)fluoranthene	µg/l	0.01	ISO 17025	-	-	-	-	< 0.01
Benzo(a)pyrene	µg/l	0.01	ISO 17025	-	-	-	-	< 0.01
Indeno(1,2,3-cd)pyrene	µg/l	0.01	NONE	-	-	-	-	< 0.01
Dibenz(a,h)anthracene	µg/l	0.01	NONE	-	-	-	-	< 0.01
Benzo(ghi)perylene	µg/l	0.01	NONE	-	-	-	-	< 0.01

Total PAH

Total EPA-16 PAHs	µg/l	0.2	NONE	-	-	-	-	< 0.2
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Heavy Metals / Metalloids

Arsenic (dissolved)	µg/l	1.1	ISO 17025	-	-	-	-	3.6
Cadmium (dissolved)	µg/l	0.08	ISO 17025	-	-	-	-	< 0.08
Chromium (hexavalent)	µg/l	5	NONE	-	-	-	-	< 5.0
Chromium (dissolved)	µg/l	0.4	ISO 17025	-	-	-	-	< 0.4
Copper (dissolved)	µg/l	0.7	ISO 17025	-	-	-	-	17
Lead (dissolved)	µg/l	1	ISO 17025	-	-	-	-	2.8
Mercury (dissolved)	µg/l	0.5	ISO 17025	-	-	-	-	< 0.5
Nickel (dissolved)	µg/l	0.3	ISO 17025	-	-	-	-	0.8
Selenium (dissolved)	µg/l	4	ISO 17025	-	-	-	-	< 4.0
Zinc (dissolved)	µg/l	0.4	ISO 17025	-	-	-	-	8.6



Analytical Report Number: 18-89732

Project / Site name: Bowes Street

Your Order No: 11-813-9035-OJ

Lab Sample Number				986217	986218	986219	986220	986221
Sample Reference				Source1-001	Source1-002	Source1-003	Source1-004	Source1-VB001
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.00-1.00	0.00-1.00	2.00-4.00	2.00-4.00	None Supplied
Date Sampled				19/06/2018	19/06/2018	19/06/2018	19/06/2018	19/06/2018
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Leachate Analysis)				Units	Limit of detection	Accreditation Status		

Monoaromatics

Benzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p & m-xylene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-xylene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10

Petroleum Hydrocarbons

TPH1 (C10 - C40)	µg/l	10	NONE	-	-	-	-	< 10
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TPH-CWG - Aliphatic >C5 - C6	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aliphatic >C6 - C8	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aliphatic >C8 - C10	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aliphatic >C10 - C12	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic >C12 - C16	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic >C16 - C21	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic >C21 - C35	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic (C5 - C35)	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10

TPH-CWG - Aromatic >C5 - C7	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aromatic >C7 - C8	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aromatic >C8 - C10	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aromatic >C10 - C12	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >C12 - C16	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >C16 - C21	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >C21 - C35	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic (C5 - C35)	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10



Analytical Report Number: 18-89732

Project / Site name: Bowes Street

Your Order No: 11-813-9035-OJ

Lab Sample Number	986222			
Sample Reference	Source1-VS001			
Sample Number	None Supplied			
Depth (m)	3.00-4.00			
Date Sampled	19/06/2018			
Time Taken	None Supplied			
Analytical Parameter (Leachate Analysis)	Units	Limit of detection	Accreditation Status	

General Inorganics

pH	pH Units	N/A	ISO 17025	6.6
Total Cyanide (Low Level 1 µg/l)	µg/l	1	ISO 17025	< 1.0

Total Phenols

Total Phenols (monohydric)	µg/l	1	ISO 17025	5.0
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Speciated PAHs

Naphthalene	µg/l	0.01	ISO 17025	< 0.01
Acenaphthylene	µg/l	0.01	ISO 17025	< 0.01
Acenaphthene	µg/l	0.01	ISO 17025	< 0.01
Fluorene	µg/l	0.01	ISO 17025	< 0.01
Phenanthrene	µg/l	0.01	ISO 17025	< 0.01
Anthracene	µg/l	0.01	ISO 17025	< 0.01
Fluoranthene	µg/l	0.01	ISO 17025	< 0.01
Pyrene	µg/l	0.01	ISO 17025	< 0.01
Benzo(a)anthracene	µg/l	0.01	ISO 17025	< 0.01
Chrysene	µg/l	0.01	ISO 17025	< 0.01
Benzo(b)fluoranthene	µg/l	0.01	ISO 17025	< 0.01
Benzo(k)fluoranthene	µg/l	0.01	ISO 17025	< 0.01
Benzo(a)pyrene	µg/l	0.01	ISO 17025	< 0.01
Indeno(1,2,3-cd)pyrene	µg/l	0.01	NONE	< 0.01
Dibenz(a,h)anthracene	µg/l	0.01	NONE	< 0.01
Benzo(ghi)perylene	µg/l	0.01	NONE	< 0.01

Total PAH

Total EPA-16 PAHs	µg/l	0.2	NONE	< 0.2
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Heavy Metals / Metalloids

Arsenic (dissolved)	µg/l	1.1	ISO 17025	1.5
Cadmium (dissolved)	µg/l	0.08	ISO 17025	< 0.08
Chromium (hexavalent)	µg/l	5	NONE	< 5.0
Chromium (dissolved)	µg/l	0.4	ISO 17025	< 0.4
Copper (dissolved)	µg/l	0.7	ISO 17025	7.7
Lead (dissolved)	µg/l	1	ISO 17025	2.4
Mercury (dissolved)	µg/l	0.5	ISO 17025	< 0.5
Nickel (dissolved)	µg/l	0.3	ISO 17025	< 0.3
Selenium (dissolved)	µg/l	4	ISO 17025	< 4.0
Zinc (dissolved)	µg/l	0.4	ISO 17025	5.9



Analytical Report Number: 18-89732

Project / Site name: Bowes Street

Your Order No: 11-813-9035-OJ

Lab Sample Number	986222			
Sample Reference	Source1-VS001			
Sample Number	None Supplied			
Depth (m)	3.00-4.00			
Date Sampled	19/06/2018			
Time Taken	None Supplied			
Analytical Parameter (Leachate Analysis)	Units	Limit of detection	Accreditation Status	

Monoaromatics

Benzene	µg/l	1	ISO 17025	< 1.0
Toluene	µg/l	1	ISO 17025	< 1.0
Ethylbenzene	µg/l	1	ISO 17025	< 1.0
p & m-xylene	µg/l	1	ISO 17025	< 1.0
o-xylene	µg/l	1	ISO 17025	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/l	10	NONE	< 10

Petroleum Hydrocarbons

TPH1 (C10 - C40)	µg/l	10	NONE	< 10
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TPH-CWG - Aliphatic >C5 - C6	µg/l	1	ISO 17025	< 1.0
TPH-CWG - Aliphatic >C6 - C8	µg/l	1	ISO 17025	< 1.0
TPH-CWG - Aliphatic >C8 - C10	µg/l	1	ISO 17025	< 1.0
TPH-CWG - Aliphatic >C10 - C12	µg/l	10	NONE	< 10
TPH-CWG - Aliphatic >C12 - C16	µg/l	10	NONE	< 10
TPH-CWG - Aliphatic >C16 - C21	µg/l	10	NONE	< 10
TPH-CWG - Aliphatic >C21 - C35	µg/l	10	NONE	< 10
TPH-CWG - Aliphatic (C5 - C35)	µg/l	10	NONE	< 10

TPH-CWG - Aromatic >C5 - C7	µg/l	1	ISO 17025	< 1.0
TPH-CWG - Aromatic >C7 - C8	µg/l	1	ISO 17025	< 1.0
TPH-CWG - Aromatic >C8 - C10	µg/l	1	ISO 17025	< 1.0
TPH-CWG - Aromatic >C10 - C12	µg/l	10	NONE	< 10
TPH-CWG - Aromatic >C12 - C16	µg/l	10	NONE	< 10
TPH-CWG - Aromatic >C16 - C21	µg/l	10	NONE	< 10
TPH-CWG - Aromatic >C21 - C35	µg/l	10	NONE	< 10
TPH-CWG - Aromatic (C5 - C35)	µg/l	10	NONE	< 10



Analytical Report Number: 18-89732

Project / Site name: Bowes Street

Your Order No: 11-813-9035-01

Lab Sample Number							
Sample Reference							
Sample Number							
Depth (m)							
Date Sampled							
Time Taken							
Analytical Parameter (Leachate Analysis)	Units	Limit of detection	Accreditation Status				

General Inorganics

pH	pH Units	N/A	ISO 17025				
Total Cyanide (Low Level 1 µg/l)	µg/l	1	ISO 17025				

Total Phenols

Total Phenols (monohydric)	µg/l	1	ISO 17025				
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Speciated PAHs

Naphthalene	µg/l	0.01	ISO 17025				
Acenaphthylene	µg/l	0.01	ISO 17025				
Acenaphthene	µg/l	0.01	ISO 17025				
Fluorene	µg/l	0.01	ISO 17025				
Phenanthrene	µg/l	0.01	ISO 17025				
Anthracene	µg/l	0.01	ISO 17025				
Fluoranthene	µg/l	0.01	ISO 17025				
Pyrene	µg/l	0.01	ISO 17025				
Benzo(a)anthracene	µg/l	0.01	ISO 17025				
Chrysene	µg/l	0.01	ISO 17025				
Benzo(b)fluoranthene	µg/l	0.01	ISO 17025				
Benzo(k)fluoranthene	µg/l	0.01	ISO 17025				
Benzo(a)pyrene	µg/l	0.01	ISO 17025				
Indeno(1,2,3-cd)pyrene	µg/l	0.01	NONE				
Dibenz(a,h)anthracene	µg/l	0.01	NONE				
Benzo(ghi)perylene	µg/l	0.01	NONE				

Total PAH

Total EPA-16 PAHs	µg/l	0.2	NONE				
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Heavy Metals / Metalloids

Arsenic (dissolved)	µg/l	1.1	ISO 17025				
Cadmium (dissolved)	µg/l	0.08	ISO 17025				
Chromium (hexavalent)	µg/l	5	NONE				
Chromium (dissolved)	µg/l	0.4	ISO 17025				
Copper (dissolved)	µg/l	0.7	ISO 17025				
Lead (dissolved)	µg/l	1	ISO 17025				
Mercury (dissolved)	µg/l	0.5	ISO 17025				
Nickel (dissolved)	µg/l	0.3	ISO 17025				
Selenium (dissolved)	µg/l	4	ISO 17025				
Zinc (dissolved)	µg/l	0.4	ISO 17025				



Analytical Report Number: 18-89732

Project / Site name: Bowes Street

Your Order No: 11-813-9035-OJ

Lab Sample Number							
Sample Reference							
Sample Number							
Depth (m)							
Date Sampled							
Time Taken							
Analytical Parameter (Leachate Analysis)	Units	Limit of detection	Accreditation Status				

Monoaromatics

Benzene	µg/l	1	ISO 17025				
Toluene	µg/l	1	ISO 17025				
Ethylbenzene	µg/l	1	ISO 17025				
p & m-xylene	µg/l	1	ISO 17025				
o-xylene	µg/l	1	ISO 17025				
MTBE (Methyl Tertiary Butyl Ether)	µg/l	10	NONE				

Petroleum Hydrocarbons

TPH1 (C10 - C40)	µg/l	10	NONE				
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TPH-CWG - Aliphatic >C5 - C6	µg/l	1	ISO 17025				
TPH-CWG - Aliphatic >C6 - C8	µg/l	1	ISO 17025				
TPH-CWG - Aliphatic >C8 - C10	µg/l	1	ISO 17025				
TPH-CWG - Aliphatic >C10 - C12	µg/l	10	NONE				
TPH-CWG - Aliphatic >C12 - C16	µg/l	10	NONE				
TPH-CWG - Aliphatic >C16 - C21	µg/l	10	NONE				
TPH-CWG - Aliphatic >C21 - C35	µg/l	10	NONE				
TPH-CWG - Aliphatic (C5 - C35)	µg/l	10	NONE				

TPH-CWG - Aromatic >C5 - C7	µg/l	1	ISO 17025				
TPH-CWG - Aromatic >C7 - C8	µg/l	1	ISO 17025				
TPH-CWG - Aromatic >C8 - C10	µg/l	1	ISO 17025				
TPH-CWG - Aromatic >C10 - C12	µg/l	10	NONE				
TPH-CWG - Aromatic >C12 - C16	µg/l	10	NONE				
TPH-CWG - Aromatic >C16 - C21	µg/l	10	NONE				
TPH-CWG - Aromatic >C21 - C35	µg/l	10	NONE				
TPH-CWG - Aromatic (C5 - C35)	µg/l	10	NONE				



Analytical Report Number : 18-89732

Project / Site name: Bowes Street

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
986211	Source1-001	None Supplied	0.00-1.00	Light grey rubble with brick and vegetation. **
986212	Source1-002	None Supplied	0.00-1.00	Brown loam and clay with rubble and vegetation.
986213	Source1-003	None Supplied	2.00-4.00	Brown clay and sand with rubble and gravel
986214	Source1-004	None Supplied	2.00-4.00	Brown clay and sand with brick and rubble.
986215	Source1-VB001	None Supplied	4.00	Brown sand with gravel.
986216	Source1-VS001	None Supplied	3.00-4.00	Brown sand.

** Non MCERTS matrix.

Analytical Report Number : 18-89732

Project / Site name: Bowes Street

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Water (PrW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
BS EN 12457-1 (2:1) Leachate Prep	2:1 (as recieved, moisture adjusted) end over end extraction with water for 24 hours. Eluate filtered prior to analysis.	In-house method based on BSEN12457-1.	L043-PL	W	NONE
BTEX and MTBE in leachates (Monoaromatics)	Determination of BTEX and MTBE in leachates by headspace GC-MS.	In-house method based on USEPA8260	L073B-PL	W	ISO 17025
Hexavalent chromium in leachate	Determination of hexavalent chromium in leachate by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry.	In-house method	L080-PL	W	NONE
Metals by ICP-OES in leachate	Determination of metals in leachate by acidification followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L039-PL	W	ISO 17025
Moisture Content	Moisture content, determined gravimetrically.	In-house method based on BS1377 Part 2, 1990, Chemical and Electrochemical Tests	L019-UK/PL	W	NONE
Monohydric phenols in leachate - LOW LEVEL 1 ug/l	Determination of phenols in leachate by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	ISO 17025
pH at 20oC in leachate	Determination of pH in leachate by electrometric measurement.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L005-PL	W	ISO 17025
Speciated EPA-16 PAHs in leachate	Determination of PAH compounds in leachate by extraction in dichloromethane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L102B-PL	W	NONE
Speciated EPA-16 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Total cyanide in leachate - 1µg/l	Determination of total cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	ISO 17025
TPH in (Soil)	Determination of TPH bands by HS-GC-MS/GC-FID	In-house method, TPH with carbon banding.	L076-PL	D	MCERTS
TPH1 (Leachates)	Determination of dichloromethane extractable hydrocarbons in leachate by GC-MS.	In-house method	L070-PL	W	NONE

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.

For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.

Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

APPENDIX VI REMEDIATION TARGET VALUES



Remediation Validation Target Values

Determinand	Units	Within 600mm Cover System (Garden)	Hard Standing and >600mm of cover system	Public Open Space 300mm Cover	Public Open Space >300mm	Pathway
Arsenic	mg/kg	37 ⁽ⁱ⁾	40 ⁽ⁱⁱ⁾	79 ⁽ⁱⁱⁱ⁾	640 ^(iv)	1
Cadmium	mg/kg	11 ⁽ⁱ⁾	85 ⁽ⁱⁱ⁾	120 ⁽ⁱⁱⁱ⁾	532 ^(iv)	1
Chromium (Hexavalent)	mg/kg	6 ⁽ⁱ⁾	6 ⁽ⁱⁱ⁾	7.7 ⁽ⁱⁱⁱ⁾	220 ^(iv)	1
Lead	mg/kg	210 ^(vi)	330 ^(vii)	760 ^(viii)	760 ^(viii)	1
Elemental Mercury	mg/kg	1.2 ⁽ⁱ⁾	1.2 ⁽ⁱⁱ⁾	16 ⁽ⁱⁱⁱ⁾	30 ^(iv)	2
Nickel	mg/kg	180 ⁽ⁱ⁾	180 ⁽ⁱⁱ⁾	230 ⁽ⁱⁱⁱ⁾	3400 ^(iv)	1
Selenium	mg/kg	250 ⁽ⁱ⁾	430 ⁽ⁱⁱ⁾	1100 ⁽ⁱⁱⁱ⁾	1800 ^(iv)	1
Copper	mg/kg	2400 ⁽ⁱ⁾	7100 ⁽ⁱⁱ⁾	12000 ⁽ⁱⁱⁱ⁾	44000 ^(iv)	1
Zinc	mg/kg	3700 ⁽ⁱ⁾	40000 ⁽ⁱⁱ⁾	81000 ⁽ⁱⁱⁱ⁾	170000 ^(iv)	1
Phenol	mg/kg	280 ^{(i)(xi)}	280 ^{(xiv)(xi)}	760 ^{(iii)(xi)}	760 ^{(iv)(xi)}	2
Naphthalene	mg/kg	2.3 ^{(i)(xi)}	2.3 ^{(xiv)(xi)}	1200 ^{(iv)(xi)}	1200 ^{(iv)(xi)}	2
Acenaphthylene	mg/kg	170 ^{(i)(xi)}	500 ^(v)	15000 ^{(iii)(xi)}	29000 ^{(iv)(xi)}	3
Acenaphthene	mg/kg	210 ^{(i)(xi)}	500 ^(v)	15000 ^{(iii)(xi)}	29000 ^{(iv)(xi)}	1
Fluorene	mg/kg	170 ^{(i)(xi)}	500 ^(v)	9900 ^{(iii)(xi)}	20000 ^{(iv)(xi)}	1
Phenanthrene	mg/kg	95 ^{(i)(xi)}	500 ^(v)	3100 ^{(iii)(xi)}	6200 ^{(iv)(xi)}	3
Anthracene	mg/kg	500 ^{(i)(xi)}	500 ^(v)	74000 ^{(iii)(xi)}	150000 ^{(iv)(xi)}	3
Fluoranthene	mg/kg	280 ^{(i)(xi)}	500 ^(v)	3100 ^{(iii)(xi)}	6300 ^{(iv)(xi)}	3
Pyrene	mg/kg	500 ^{(i)(xi)}	500 ^(v)	7400 ^{(iii)(xi)}	15000 ^{(iv)(xi)}	3
Benzo(a)Anthracene ⁽ⁱ⁾	mg/kg	7.2 ^{(i)(xi)}	11 ^{(iii)(xi)}	29 ^{(iii)(xi)}	49 ^{(iv)(xi)}	3
Chrysene	mg/kg	15 ^{(i)(xi)}	30 ^{(iii)(xi)}	57 ^{(iii)(xi)}	93 ^{(iv)(xi)}	3
Benzo(b)Fluoranthene ⁽ⁱⁱⁱ⁾	mg/kg	2.6 ^{(i)(xi)}	3.9 ^{(iii)(xi)}	7.1 ^{(iii)(xi)}	13 ^{(iv)(xi)}	3
Benzo(k)Fluoranthene ⁽ⁱⁱⁱ⁾	mg/kg	77 ^{(i)(xi)}	110 ^{(iii)(xi)}	190 ^{(iii)(xi)}	370 ^{(iv)(xi)}	3
Benzo(a)Pyrene ^(vii)	mg/kg	2.2 ^{(i)(xi)}	3.2 ^{(iii)(xi)}	5.7 ^{(iii)(xi)}	11 ^{(iv)(xi)}	3
Indeno(123-cd)Pyrene	mg/kg	27 ^{(i)(xi)}	45 ^{(iii)(xi)}	82 ^{(iii)(xi)}	150 ^{(iv)(xi)}	3
Dibenzo(a,h)Anthracene	mg/kg	0.24 ^{(i)(xi)}	0.31 ^{(iii)(xi)}	0.57 ^{(iii)(xi)}	1.1 ^{(iv)(xi)}	3
Benzo(ghi)Perylene	mg/kg	320 ^{(i)(xi)}	360 ^{(iii)(xi)}	640 ^{(iii)(xi)}	1400 ^{(iv)(xi)}	3
TPH C ₅ -C ₆ (aliphatic)	mg/kg	42 ^{(i)(xi)}	42 ^{(ii)(xi)}	42 ^{(ii)(xi)}	10000 ^{(xiv)(xi)}	2
TPH C ₆ -C ₈ (aliphatic)	mg/kg	100 ^{(i)(xi)}	100 ^{(iii)(xi)}	100 ^{(ii)(xi)}	10000 ^{(xiv)(xi)}	2
TPH C ₈ -C ₁₀ (aliphatic)	mg/kg	27 ^{(i)(xi)}	27 ^{(ii)(xi)}	27 ^{(ii)(xi)}	10000 ^{(xiv)(xi)}	2
TPH C ₁₀ -C ₁₂ (aliphatic)	mg/kg	130 ^{(i)(xi)}	130 ^{(iii)(xi)}	130 ^{(ii)(xi)}	10000 ^{(xiv)(xi)}	2
TPH C ₁₂ -C ₁₆ (aliphatic)	mg/kg	1000 ^{(xiv)(xi)}	1000 ^{(xiv)(xi)}	1000 ^{(xiv)(xi)}	10000 ^{(xiv)(xi)}	1
TPH C ₁₆ -C ₂₁ (aliphatic)	mg/kg	1000 ^{(xiv)(xi)}	1000 ^{(xiv)(xi)}	1000 ^{(xiv)(xi)}	10000 ^{(xiv)(xi)}	1
TPH C ₂₁ -C ₃₅ (aliphatic)	mg/kg	1000 ^{(xiv)(xi)}	1000 ^{(xiv)(xi)}	1000 ^{(xiv)(xi)}	10000 ^{(xiv)(xi)}	1
TPH C ₅ -C ₇ (aromatic)	mg/kg	70 ^{(i)(xi)}	370 ^{(ii)(xi)}	370 ^{(ii)(xi)}	10000 ^{(xiv)(xi)}	2
TPH C ₇ -C ₈ (aromatic)	mg/kg	130 ^{(i)(xi)}	860 ^{(ii)(xi)}	860 ^{(ii)(xi)}	10000 ^{(xiv)(xi)}	2
TPH C ₈ -C ₁₀ (aromatic)	mg/kg	34 ^{(i)(xi)}	47 ^{(ii)(xi)}	47 ^{(ii)(xi)}	10000 ^{(xiv)(xi)}	2
TPH C ₁₀ -C ₁₂ (aromatic)	mg/kg	74 ^{(i)(xi)}	250 ^{(ii)(xi)}	250 ^{(ii)(xi)}	10000 ^{(xiv)(xi)}	2
TPH C ₁₂ -C ₁₆ (aromatic)	mg/kg	140 ^{(i)(xi)}	1800 ^{(ii)(xi)}	1800 ^{(ii)(xi)}	10000 ^{(xiv)(xi)}	1
TPH C ₁₆ -C ₂₁ (aromatic)	mg/kg	260 ^{(i)(xi)}	1900 ^{(ii)(xi)}	1900 ^{(ii)(xi)}	10000 ^{(xiv)(xi)}	1
TPH C ₂₁ -C ₃₅ (aromatic)	mg/kg	1000 ^{(xiv)(xi)}	1900 ^{(ii)(xi)}	1900 ^{(ii)(xi)}	10000 ^{(xiv)(xi)}	1
Asbestos	Fibres Volume Weight	NFD	0.001%	NFD	0.001	1

Notes 1

Asbestos will be screened visually on-site by a qualified environmental consultant and where potential ACM is identified representative samples will be subject to quantitative analysis of 5&volume by weight. Should any ACM be identified within the soil matrices, further detailed % assessment would be required when the reported laboratory result exceeds the limit of detection for the analytical method at 0.01% by volume (weight).

Notes 2

Excludes matrices where free product is observed;
Commercial Tier 1 GAC modelled to assume no exposure pathway; and,
No viable exposure pathway beneath hard standing and cover system.

Notes 3

Main Exposure Pathways: 1 = Soil Ingestion, 2 = Vapour Inhalation (indoor), 3 = Dermal Contact & Ingestion, 4 = Dust Inhalation.

Abbreviations: GAC = General Assessment Criteria, n = number of samples, MC = Maximum Concentration; NA – Not Applicable (no exceedance of assessment criteria); Loc of MC = Location of Exceedances

- (i) Value derived from LQM Sutable 4 Use Levels (S4ULs) for residential end use **with** plant uptake.
- (ii) Value derived from LQM Sutable 4 Use Levels (S4ULs) for residential end use **without** plant uptake – these levels used below 600mm cover system within residential gardens as soils will be present within a residential setting yet soils will not be disturbed and garden plants will not reach these soils.
- (iii) Value derived from LQM Sutable 4 Use Levels (S4ULs) for Public open Space (POS) residential.
- (iv) Value derived from LQM Sutable 4 Use Levels (S4ULs) for Public Open Space (POS) park – these levels used below 300mm POS cover system as soils will not be disturbed by any future site users and exposure to these soils will be similar to a park end use.
- (v) Value derived from LQM Sutable 4 Use Levels (S4ULs) alongside assessment with WM3 to ensure that materials remaining on site do not exceed the WM3 toxicity criteria for hazardous waste.
- (vi) Value derived from Category 4 Screening Levels (C4SL) for residential land use **with** homegrown produce.
- (vii) Value derived from Category 4 Screening Levels (C4SL) for residential land use **without** homegrown produce.
- (viii) Value derived from Category 4 Screening Levels (C4SL) for Public open Space (POS) residential.
- (ix) Value derived from Category 4 Screening Levels (C4SL) for Public Open Space (POS) park.
- (x) Mercury – Based on elemental Mercury.
- (xi) PAH and TPH levels used are for 1% SOM.
- (xii) Xylenes based on p-xylene (o-xylene 2600mg/kg, m-xylene 3500mg/kg) and is capped by its solubility.
- (xiii) Value derived from LQM Sutable 4 Use Levels (S4ULs) for residential end use **with** plant uptake due to the volatilisation risk.
- (xiv) BTEX is not SOM related due to inhalation pathway.



APPENDIX VII VAPOUR RISK ASSESSMENT LETTER





E3P
Heliport Business Park
Liverpool Road
Eccles
Manchester
M30 7RU

*Manchester / London / Edinburgh
0161 707 9612*

info@E3P.co.uk
<http://www.E3P.co.uk>

Ref: 11-813-L3
Date: 21st November 2018

Steve Weir
Rowlinson Construction
London House
London Road South
Poynton
Stockport
SK12 1YP

BY Email (steve.weir@rowcon.co.uk)

Dear Steve,

Vapour Risk Assessment & Further Investigation into Source Area2 Land at Bowes Street, Manchester

Following approval of the E3P Remediation Strategy (Ref:11-813-R1 Revision A dated March 2018) the report identified further investigations and assessments would need to be undertaken in relation to a vapour risk assessment and further leachate analysis of shallow Made Ground soils in the eastern sector to confirm no risk to controlled waters was present.

Soil Vapour Monitoring

As part of the Remediation and Enabling Works Strategy, E3P has completed a soil vapour survey to quantify the actual naphthalene and TPH vapour concentrations present in the subsurface soils and determine whether these will present a long-term human health risk to the future site users through indoor volatilisation and inhalation.

E3P installed twelve Tenax tubes on the 11th September 2018, the Tenax tubes were then left within the monitoring wells until the 2nd October 2018. The tubes were hung within the monitoring wells at depths between 0.50m and 1.00m bgl within soils where naphthalene and volatile TPH had previously been identified.

On removal of the tubes they were sealed in strict accordance with the laboratory sampling procedures. Once the compounds have absorbed onto the carbon sorption tubes, the sample is stable and is not subject to degradation. Samples were stored at E3P in a controlled environment prior to shipment by courier to Concept Life Sciences Laboratory for UKAS accredited speciated TPH and naphthalene analysis. Following the analysis of the tubes the laboratory contacted E3P to inform them that the tubes appeared to have become saturated whilst suspended within the boreholes. This may be due to the perched shallow groundwater within the Made Ground soils. The Laboratory advised that the results could not be relied upon therefore E3P have not used the results within the vapour assessment.

As part of the remediation works further trial pitting within source area two was required to confirm the retained Made Ground soils did not pose a risk to controlled waters. E3P have used results gathered during the additional ground investigation in order to assess the potential volatilisation to indoor air risk.

Sample Locations are illustrated on Drawing 11-813-002.

E3P has undertaken a Tier 1 qualitative risk assessment to determine if any potential contaminants within the underlying soils an unacceptable level of risk to the identified receptors. At a Tier 1 stage the long term (chronic) human health toxicity of the soil has been assessed by comparing the on-site concentrations of organic and inorganic compounds with reference values published in LQM / CIEH S4UL (S4UL3267).

The results of this comparison have been summarised below.

DETERMINANT	UNIT	GAC	N	MC	LOC. OF EX	PATHWAY	ASSESSMENT
Naphthalene	mg/kg	2.3	20	47	TP101 TP104 TP105 TP106 TP107 TP117 TP118 TP119	2	Further Action
TPH C5-C6 (aliphatic)	mg/kg	42	20	<0.001	N/A	2	No Further Action
TPH C6-C8 (aliphatic)	mg/kg	100	20	<0.001	N/A	2	No Further Action
TPH C8-C10 (aliphatic)	mg/kg	27	20	<0.001	N/A	2	No Further Action
TPH C10-C12 (aliphatic)	mg/kg	130	20	35	N/A	2	No Further Action
TPH C7-C8 (aromatic)	mg/kg	130	20	<0.001	N/A	2	No Further Action
TPH C8-C10 (aromatic)	mg/kg	34	20	0.009	N/A	2	No Further Action
TPH C10-C12 (aromatic)	mg/kg	74	20	140	TP106	2	Further Action
TPH C12-C16 (aromatic)	mg/kg	140	20	650	TP101 TP102 TP104 TP105 TP106 TP112 TP118 TP119 TP120	2	Further Action

Notes

Main Exposure Pathways: 1 = Soil Ingestion, 2 = Vapour Inhalation (indoor), 3 = Dermal Contact & Ingestion, 4 = Dust Inhalation.

Abbreviations: GAC = General Assessment Criteria, n = number of samples, MC = Maximum Concentration; Loc of Ex = Location of Exceedance; NFD = No Fibres Detected

* The Tier 1 GAC for the hydrocarbon fraction is derived from the CIEH assessment for petroleum hydrocarbons Criteria Working Group (CWG) for both aliphatic and aromatic compounds. E3P has utilised the Tier 1 values for aliphatic compounds for the volatile and semi volatile fractions (C₅-C₁₂) and the Tier 1 values for aromatic compound for the non-volatile fractions (C₁₂-C₃₅). The comparison of a total (aliphatic/aromatic) compounds to an individual fraction is considered to be a conservative approach and satisfactory for the protection of human health.

With regards to the elevated Naphthalene, TPH C10-12 and TPH C12-C16 concentrations, these present a potential volatilisation to indoor air risk. These elevated concentrations have only been identified within a number of the trial pits across the site. Furthermore, elevated

Naphthalene and volatile TPH compounds have been identified within previous ground investigations across the site. Which us discussed within the remediation strategy.

Due to the intended retention of impacted Made Ground soils it is proposed that all dwellings incorporate the installation of hydrocarbon resistant membranes to mitigate the potential for any vapour volatilisation to indoor air. It is recommended that protection measures are agreed with the local authority prior to their adoption on-site. Furthermore, all protection measures adopted should be validated by a suitably qualified engineer.

Further Investigation into Source Area 2

As discussed within the remediation strategy this area covers much of the eastern portion of the site and relates to the shallow Made Ground strata where elevated hydrocarbon compounds and naphthalene have been identified (in significantly lower concentrations than within Source Area 1). These materials have been determined to be suitable for retention in their current location subject to the installation of a cover system within soft landscaping and installation of hydrocarbon resistant membranes within proposed plots. The below details the further assessment undertaken to confirm the absence of risk to the underlying Principal Aquifer. The DQRA levels present within the E3P remediation strategy have been used to confirm that these soils are suitable for retention and to confirm the absence of any leachate risk to the underlying aquifer.

E3P carried out 20No trial pits across source area 2, trial pits were advanced into the upper 1m of Made Ground soils on a grid system (circa 1 sample per 500m³) as detailed within the remediation strategy.

The results of the additional leachate analysis are present below, additionally Sample locations are illustrated on Drawing 11-813-002. Chemical samples are

CONTAMINANT	UNITS	SOURCE CONCENTRATION IN RTM MODEL	LEVEL 3 REMEDIAL TARGET CONCENTRATION	MAXIMUM CONCENTRATION	FURTHER ASSESSMENT
Source Area 2					
Naphthalene	mg/l	0.00002	18800	0.0048	N/A
TPH Aliphatic C12-C16	mg/l	0.02	0.0125	<0.001	N/A
TPH Aliphatic C16-C35	mg/l	0.04	0.0115	<0.01	N/A
TPH Aromatic C10-C12	mg/l	0.02	4340	<0.01	N/A
TPH Aromatic C12-C16	mg/l	0.02	77.5	<0.01	N/A
TPH Aromatic C16-C21	mg/l	0.02	0.415	<0.01	N/A
TPH Aromatic C21-C35	mg/l	0.02	16.8	<0.01	N/A

Supplementary intrusive investigation and analysis has not identified any leachate samples exceeding site specific screening criteria as detailed above. It is therefore considered that Made Ground soils across the site do not pose a risk to the underlying aquifer principle aquifer and are suitable to be retained on site.

Yours sincerely,
For and on behalf of E3P Ltd



Rob Horseman
Senior Geo-Environmental Consultant



Appendix I – Drawings
Appendix II – Chemical Data



APPENDIX I: DRAWINGS



APPENDIX II: CHEMICAL TESTING DATA



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Analytical Report Number : 18-94596

Replaces Analytical Report Number : 18-94596, issue no. 2

Project / Site name:	Bowes St	Samples received on:	31/07/2018
Your job number:	11-813	Samples instructed on:	31/07/2018
Your order number:		Analysis completed by:	08/08/2018
Report Issue Number:	3	Report issued on:	08/08/2018
Samples Analysed:	20 leachate samples - 20 soil samples		

Signed:

Jordan Hill
Reporting Manager
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :	soils	- 4 weeks from reporting
	leachates	- 2 weeks from reporting
	waters	- 2 weeks from reporting
	asbestos	- 6 months from reporting

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Analytical Report Number: 18-94596

Project / Site name: Bowes St

Lab Sample Number				1012723	1012724	1012725	1012726	1012727
Sample Reference				TP101	TP102	TP103	TP104	TP105
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.20	0.85	0.50	0.75	0.40
Date Sampled				30/07/2018	30/07/2018	30/07/2018	30/07/2018	30/07/2018
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	N/A	NONE	18	17	19	8.8	13
Total mass of sample received	kg	0.001	NONE	0.92	0.92	0.97	0.82	0.85

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	3.9	1.5	0.42	16	20
Acenaphthylene	mg/kg	0.05	MCERTS	1.2	0.49	< 0.05	2.8	2.1
Acenaphthene	mg/kg	0.05	MCERTS	7.8	5.7	0.90	20	46
Fluorene	mg/kg	0.05	MCERTS	7.6	4.1	0.69	21	33
Phenanthrene	mg/kg	0.05	MCERTS	44	38	6.6	130	240
Anthracene	mg/kg	0.05	MCERTS	11	8.9	1.4	29	51
Fluoranthene	mg/kg	0.05	MCERTS	43	38	7.8	120	220
Pyrene	mg/kg	0.05	MCERTS	41	35	7.2	110	200
Benzo(a)anthracene	mg/kg	0.05	MCERTS	28	19	3.3	55	85
Chrysene	mg/kg	0.05	MCERTS	18	17	3.0	41	91
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	27	22	3.8	51	97
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	9.8	7.5	1.2	19	28
Benzo(a)pyrene	mg/kg	0.05	MCERTS	24	18	3.0	44	78
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	9.6	7.9	1.2	20	35
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	3.1	2.6	0.41	5.5	12
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	13	10	1.7	26	44

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	292	236	42.5	719	1280
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Monoaromatics

Benzene	ug/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	ug/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	ug/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p & m-xylene	ug/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-xylene	ug/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	ug/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Petroleum Hydrocarbons

TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	35	5.7	< 1.0	8.3	< 1.0
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	230	390	17	72	37
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	380	640	74	110	58
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	680	270	370	300	210
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	1300	1300	460	480	300

TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.001	MCERTS	0.009	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	9.2	36	< 1.0	53	32
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	190	270	20	310	440
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	470	720	120	1000	1700
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	720	910	270	1700	2300
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	1400	1900	420	3100	4500



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Project / Site name: Bowes St

Lab Sample Number				1012728	1012729	1012730	1012731	1012732
Sample Reference				TP106	TP107	TP108	TP109	TP110
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.10	0.95	0.60	0.40	0.25
Date Sampled				30/07/2018	30/07/2018	30/07/2018	30/07/2018	30/07/2018
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	N/A	NONE	17	18	6.2	13	14
Total mass of sample received	kg	0.001	NONE	0.84	0.81	0.97	0.91	0.84

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	43	5.9	0.66	2.2	1.1
Acenaphthylene	mg/kg	0.05	MCERTS	16	0.53	0.18	0.46	0.22
Acenaphthene	mg/kg	0.05	MCERTS	69	11	2.1	6.4	1.4
Fluorene	mg/kg	0.05	MCERTS	60	7.1	1.6	5.6	1.2
Phenanthrene	mg/kg	0.05	MCERTS	490	48	14	40	8.7
Anthracene	mg/kg	0.05	MCERTS	110	12	4.0	12	2.0
Fluoranthene	mg/kg	0.05	MCERTS	500	47	18	41	9.2
Pyrene	mg/kg	0.05	MCERTS	460	45	18	39	9.0
Benzo(a)anthracene	mg/kg	0.05	MCERTS	210	26	10	21	4.6
Chrysene	mg/kg	0.05	MCERTS	180	24	7.0	18	3.5
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	200	30	11	24	5.5
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	87	10	4.2	7.9	1.3
Benzo(a)pyrene	mg/kg	0.05	MCERTS	180	26	9.5	20	4.4
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	89	10	4.2	7.8	1.8
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	30	3.4	1.2	2.7	0.61
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	110	13	5.3	10	2.5

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	2850	319	111	257	57.0
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Monoaromatics

Benzene	ug/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	ug/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	ug/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p & m-xylene	ug/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-xylene	ug/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	ug/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Petroleum Hydrocarbons

TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	1.1	< 1.0	< 1.0
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	55	7.3	84	11	10
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	92	19	280	17	38
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	150	89	690	86	140
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	300	120	1100	120	190

TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	140	2.6	2.3	3.7	2.7
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	650	71	100	62	29
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	2300	390	600	310	160
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	4100	600	1000	450	260
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	7200	1100	1700	830	450

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Project / Site name: Bowes St

Lab Sample Number				1012733	1012734	1012735	1012736	1012737
Sample Reference				TP111	TP112	TP113	TP114	TP115
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.80	0.50	0.25	0.15	0.85
Date Sampled				30/07/2018	30/07/2018	30/07/2018	30/07/2018	30/07/2018
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	N/A	NONE	14	6.4	16	16	7.3
Total mass of sample received	kg	0.001	NONE	0.78	0.95	0.91	1.0	0.89

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	0.65	1.7	0.49	0.53	1.3
Acenaphthylene	mg/kg	0.05	MCERTS	0.42	0.22	0.32	0.24	0.31
Acenaphthene	mg/kg	0.05	MCERTS	1.3	3.7	0.54	0.70	3.1
Fluorene	mg/kg	0.05	MCERTS	1.2	2.6	0.56	0.78	2.4
Phenanthrene	mg/kg	0.05	MCERTS	12	22	6.4	7.1	21
Anthracene	mg/kg	0.05	MCERTS	2.5	6.2	1.4	1.7	5.2
Fluoranthene	mg/kg	0.05	MCERTS	13	27	9.1	8.8	26
Pyrene	mg/kg	0.05	MCERTS	14	26	9.4	9.3	28
Benzo(a)anthracene	mg/kg	0.05	MCERTS	7.1	12	5.0	5.0	15
Chrysene	mg/kg	0.05	MCERTS	6.2	9.7	4.1	3.6	12
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	7.1	15	5.9	5.7	19
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	3.0	3.6	1.7	2.3	4.8
Benzo(a)pyrene	mg/kg	0.05	MCERTS	6.6	12	4.8	4.6	15
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	2.8	4.9	2.1	1.7	6.4
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	0.83	1.5	0.71	0.59	2.1
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	3.7	6.8	2.7	2.4	8.3

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	81.9	155	55.4	55.0	170
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Monoaromatics

Benzene	ug/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	ug/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	ug/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p & m-xylene	ug/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-xylene	ug/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	ug/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Petroleum Hydrocarbons

TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	12	< 1.0	< 1.0	2.4
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	8.5	200	2.9	5.5	30
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	36	410	< 8.0	27	100
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	79	630	15	110	290
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	120	1300	24	140	420

TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	7.3	2.9	1.5	2.3
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	13	160	20	13	62
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	99	510	160	84	390
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	170	770	280	170	720
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	280	1400	460	270	1200



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Project / Site name: Bowes St

Lab Sample Number				1012738	1012739	1012740	1012741	1012742
Sample Reference				TP116	TP117	TP118	TP119	TP120
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.30	0.95	0.40	0.70	1.00
Date Sampled				30/07/2018	30/07/2018	30/07/2018	30/07/2018	30/07/2018
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	N/A	NONE	20	12	11	11	5.6
Total mass of sample received	kg	0.001	NONE	0.91	0.94	0.93	1.0	1.0

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	0.51	2.4	4.8	6.0	0.41
Acenaphthylene	mg/kg	0.05	MCERTS	0.28	0.14	0.29	0.44	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	0.85	1.9	6.0	9.5	0.98
Fluorene	mg/kg	0.05	MCERTS	0.82	1.5	4.8	8.1	0.74
Phenanthrene	mg/kg	0.05	MCERTS	7.6	13	30	52	5.0
Anthracene	mg/kg	0.05	MCERTS	1.7	3.4	8.4	14	1.5
Fluoranthene	mg/kg	0.05	MCERTS	8.6	15	30	49	7.1
Pyrene	mg/kg	0.05	MCERTS	8.7	15	28	46	9.0
Benzo(a)anthracene	mg/kg	0.05	MCERTS	4.3	7.4	14	23	5.1
Chrysene	mg/kg	0.05	MCERTS	3.7	5.7	11	17	3.4
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	5.1	8.8	14	26	5.0
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	1.6	2.3	6.1	6.1	1.8
Benzo(a)pyrene	mg/kg	0.05	MCERTS	4.3	6.8	13	20	4.3
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	1.8	3.0	5.4	9.0	1.9
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	0.62	0.91	1.7	2.8	0.61
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	2.5	3.9	7.1	11	2.5

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	53.0	91.4	183	299	49.3
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Monoaromatics

Benzene	ug/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	ug/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	ug/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p & m-xylene	ug/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-xylene	ug/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	ug/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Petroleum Hydrocarbons

TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	13	15
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	4.7	29	150	170	600
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	15	110	350	350	1000
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	34	250	640	630	430
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	53	390	1100	1200	2100

TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	2.6	17	16	2.9
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	14	33	230	150	270
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	68	170	800	540	670
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	97	240	1100	760	610
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	180	450	2200	1500	1600



Analytical Report Number: 18-94596

Project / Site name: Bowes St

Lab Sample Number	1012743	1012744	1012745	1012746	1012747
Sample Reference	TP101	TP102	TP103	TP104	TP105
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)	0.2	0.85	0.50	0.75	0.40
Date Sampled	30/07/2018	30/07/2018	30/07/2018	30/07/2018	30/07/2018
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Leachate Analysis)	Units	Limit of detection	Accreditation Status		

General Inorganics

pH	pH Units	N/A	ISO 17025	7.2	8.2	11.3	9.8	7.3
Total Cyanide (Low Level 1 µg/l)	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	2.9	< 1.0

Total Phenols

Total Phenols (monohydric)	µg/l	1	ISO 17025	6.0	< 1.0	2.5	28	5.8
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Speciated PAHs

Naphthalene	µg/l	0.01	ISO 17025	< 0.01	0.27	< 0.01	3.5	< 0.01
Acenaphthylene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	0.28
Acenaphthene	µg/l	0.01	ISO 17025	< 0.01	0.80	< 0.01	1.6	0.77
Fluorene	µg/l	0.01	ISO 17025	< 0.01	0.29	< 0.01	0.59	0.11
Phenanthrene	µg/l	0.01	ISO 17025	< 0.01	0.40	< 0.01	0.57	< 0.01
Anthracene	µg/l	0.01	ISO 17025	< 0.01	0.15	< 0.01	< 0.01	0.25
Fluoranthene	µg/l	0.01	ISO 17025	< 0.01	0.26	< 0.01	0.11	< 0.01
Pyrene	µg/l	0.01	ISO 17025	< 0.01	0.24	< 0.01	0.10	< 0.01
Benzo(a)anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Chrysene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(b)fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(k)fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(a)pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Indeno(1,2,3-cd)pyrene	µg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Dibenz(a,h)anthracene	µg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(ghi)perylene	µg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01

Total PAH

Total EPA-16 PAHs	µg/l	0.2	NONE	< 0.2	2.4	< 0.2	6.5	1.4
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Heavy Metals / Metalloids

Arsenic (dissolved)	µg/l	1.1	ISO 17025	19	11	12	78	10
Cadmium (dissolved)	µg/l	0.08	ISO 17025	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08
Chromium (hexavalent)	µg/l	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Chromium (dissolved)	µg/l	0.4	ISO 17025	1.8	2.1	1.5	4.1	1.4
Copper (dissolved)	µg/l	0.7	ISO 17025	44	21	9.4	120	49
Lead (dissolved)	µg/l	1	ISO 17025	8.0	11	6.4	9.2	12
Mercury (dissolved)	µg/l	0.5	ISO 17025	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Nickel (dissolved)	µg/l	0.3	ISO 17025	6.0	4.7	2.4	12	4.4
Selenium (dissolved)	µg/l	4	ISO 17025	6.6	< 4.0	7.7	9.2	4.6
Zinc (dissolved)	µg/l	0.4	ISO 17025	42	17	10	10	17



Analytical Report Number: 18-94596

Project / Site name: Bowes St

Lab Sample Number				1012743	1012744	1012745	1012746	1012747
Sample Reference				TP101	TP102	TP103	TP104	TP105
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.2	0.85	0.50	0.75	0.40
Date Sampled				30/07/2018	30/07/2018	30/07/2018	30/07/2018	30/07/2018
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Leachate Analysis)				Units	Limit of detection	Accreditation Status		

Monoaromatics

Benzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p & m-xylene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-xylene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10

Petroleum Hydrocarbons

TPH1 (C10 - C40)	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
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TPH-CWG - Aliphatic >C5 - C6	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aliphatic >C6 - C8	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aliphatic >C8 - C10	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aliphatic >C10 - C12	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic >C12 - C16	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic >C16 - C21	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic >C21 - C35	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic (C5 - C35)	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10

TPH-CWG - Aromatic >C5 - C7	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aromatic >C7 - C8	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aromatic >C8 - C10	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aromatic >C10 - C12	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >C12 - C16	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >C16 - C21	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >C21 - C35	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic (C5 - C35)	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10



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Project / Site name: Bowes St

Lab Sample Number				1012748	1012749	1012750	1012751	1012752
Sample Reference				TP106	TP107	TP108	TP109	TP110
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.10	0.95	0.60	0.40	0.25
Date Sampled				30/07/2018	30/07/2018	30/07/2018	30/07/2018	30/07/2018
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Leachate Analysis)				Units	Limit of detection	Accreditation Status		

General Inorganics

pH	pH Units	N/A	ISO 17025	8.0	8.5	10.2	7.6	8.1
Total Cyanide (Low Level 1 µg/l)	µg/l	1	ISO 17025	< 1.0	1.9	< 1.0	< 1.0	1.1

Total Phenols

Total Phenols (monohydric)	µg/l	1	ISO 17025	6.2	6.0	6.9	2.2	3.3
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Speciated PAHs

Naphthalene	µg/l	0.01	ISO 17025	0.37	< 0.01	0.60	< 0.01	< 0.01
Acenaphthylene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Acenaphthene	µg/l	0.01	ISO 17025	0.77	< 0.01	0.84	< 0.01	< 0.01
Fluorene	µg/l	0.01	ISO 17025	0.25	< 0.01	0.23	< 0.01	< 0.01
Phenanthrene	µg/l	0.01	ISO 17025	0.44	< 0.01	0.29	< 0.01	< 0.01
Anthracene	µg/l	0.01	ISO 17025	0.13	< 0.01	< 0.01	< 0.01	< 0.01
Fluoranthene	µg/l	0.01	ISO 17025	0.27	< 0.01	< 0.01	< 0.01	< 0.01
Pyrene	µg/l	0.01	ISO 17025	0.25	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(a)anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Chrysene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(b)fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(k)fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(a)pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Indeno(1,2,3-cd)pyrene	µg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Dibenz(a,h)anthracene	µg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(ghi)perylene	µg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01

Total PAH

Total EPA-16 PAHs	µg/l	0.2	NONE	2.5	< 0.2	2.0	< 0.2	< 0.2
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Heavy Metals / Metalloids

Arsenic (dissolved)	µg/l	1.1	ISO 17025	3.7	42	15	4.3	2.8
Cadmium (dissolved)	µg/l	0.08	ISO 17025	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08
Chromium (hexavalent)	µg/l	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Chromium (dissolved)	µg/l	0.4	ISO 17025	1.4	2.4	4.3	3.4	2.1
Copper (dissolved)	µg/l	0.7	ISO 17025	25	78	59	36	36
Lead (dissolved)	µg/l	1	ISO 17025	3.7	15	7.4	8.3	6.0
Mercury (dissolved)	µg/l	0.5	ISO 17025	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Nickel (dissolved)	µg/l	0.3	ISO 17025	4.3	7.4	2.2	3.7	4.0
Selenium (dissolved)	µg/l	4	ISO 17025	< 4.0	9.7	< 4.0	< 4.0	< 4.0
Zinc (dissolved)	µg/l	0.4	ISO 17025	45	11	12	15	17



Analytical Report Number: 18-94596

Project / Site name: Bowes St

Lab Sample Number				1012748	1012749	1012750	1012751	1012752
Sample Reference				TP106	TP107	TP108	TP109	TP110
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.10	0.95	0.60	0.40	0.25
Date Sampled				30/07/2018	30/07/2018	30/07/2018	30/07/2018	30/07/2018
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Leachate Analysis)				Units	Limit of detection	Accreditation Status		

Monoaromatics

Benzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p & m-xylene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-xylene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10

Petroleum Hydrocarbons

TPH1 (C10 - C40)	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
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TPH-CWG - Aliphatic >C5 - C6	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aliphatic >C6 - C8	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aliphatic >C8 - C10	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aliphatic >C10 - C12	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic >C12 - C16	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic >C16 - C21	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic >C21 - C35	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic (C5 - C35)	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10

TPH-CWG - Aromatic >C5 - C7	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aromatic >C7 - C8	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aromatic >C8 - C10	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aromatic >C10 - C12	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >C12 - C16	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >C16 - C21	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >C21 - C35	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic (C5 - C35)	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10



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Project / Site name: Bowes St

Lab Sample Number				1012753	1012754	1012755	1012756	1012757
Sample Reference				TP111	TP112	TP113	TP114	TP115
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.80	0.50	0.25	0.15	0.85
Date Sampled				30/07/2018	30/07/2018	30/07/2018	30/07/2018	30/07/2018
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Leachate Analysis)				Units	Limit of detection	Accreditation Status		

General Inorganics

pH	pH Units	N/A	ISO 17025	7.7	10.0	7.4	7.8	7.9
Total Cyanide (Low Level 1 µg/l)	µg/l	1	ISO 17025	1.2	< 1.0	< 1.0	1.5	< 1.0

Total Phenols

Total Phenols (monohydric)	µg/l	1	ISO 17025	2.1	17	4.1	3.5	3.6
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Speciated PAHs

Naphthalene	µg/l	0.01	ISO 17025	< 0.01	4.8	< 0.01	< 0.01	< 0.01
Acenaphthylene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Acenaphthene	µg/l	0.01	ISO 17025	< 0.01	2.2	< 0.01	< 0.01	< 0.01
Fluorene	µg/l	0.01	ISO 17025	< 0.01	0.71	< 0.01	< 0.01	< 0.01
Phenanthrene	µg/l	0.01	ISO 17025	< 0.01	0.89	< 0.01	< 0.01	< 0.01
Anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(a)anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Chrysene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(b)fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(k)fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(a)pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Indeno(1,2,3-cd)pyrene	µg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Dibenz(a,h)anthracene	µg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(ghi)perylene	µg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01

Total PAH

Total EPA-16 PAHs	µg/l	0.2	NONE	< 0.2	8.5	< 0.2	< 0.2	< 0.2
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Heavy Metals / Metalloids

Arsenic (dissolved)	µg/l	1.1	ISO 17025	6.1	37	2.8	12	< 1.1
Cadmium (dissolved)	µg/l	0.08	ISO 17025	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08
Chromium (hexavalent)	µg/l	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Chromium (dissolved)	µg/l	0.4	ISO 17025	5.8	3.4	1.4	1.5	0.5
Copper (dissolved)	µg/l	0.7	ISO 17025	61	97	17	50	18
Lead (dissolved)	µg/l	1	ISO 17025	15	14	4.9	3.5	1.0
Mercury (dissolved)	µg/l	0.5	ISO 17025	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Nickel (dissolved)	µg/l	0.3	ISO 17025	12	10	1.7	6.6	1.2
Selenium (dissolved)	µg/l	4	ISO 17025	< 4.0	11	< 4.0	< 4.0	< 4.0
Zinc (dissolved)	µg/l	0.4	ISO 17025	11	19	8.9	57	8.8



Analytical Report Number: 18-94596

Project / Site name: Bowes St

Lab Sample Number				1012753	1012754	1012755	1012756	1012757
Sample Reference				TP111	TP112	TP113	TP114	TP115
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.80	0.50	0.25	0.15	0.85
Date Sampled				30/07/2018	30/07/2018	30/07/2018	30/07/2018	30/07/2018
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Leachate Analysis)				Units	Limit of detection	Accreditation Status		

Monoaromatics

Benzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p & m-xylene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-xylene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10

Petroleum Hydrocarbons

TPH1 (C10 - C40)	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
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TPH-CWG - Aliphatic >C5 - C6	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aliphatic >C6 - C8	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aliphatic >C8 - C10	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aliphatic >C10 - C12	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic >C12 - C16	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic >C16 - C21	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic >C21 - C35	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic (C5 - C35)	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10

TPH-CWG - Aromatic >C5 - C7	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aromatic >C7 - C8	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aromatic >C8 - C10	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aromatic >C10 - C12	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >C12 - C16	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >C16 - C21	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >C21 - C35	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic (C5 - C35)	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10



Analytical Report Number: 18-94596

Project / Site name: Bowes St

Lab Sample Number				1012758	1012759	1012760	1012761	1012762
Sample Reference				TP116	TP117	TP118	TP119	TP120
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.30	0.95	0.40	0.70	1.00
Date Sampled				30/07/2018	30/07/2018	30/07/2018	30/07/2018	30/07/2018
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Leachate Analysis)				Units	Limit of detection	Accreditation Status		

General Inorganics

pH	pH Units	N/A	ISO 17025	8.1	8.5	9.7	10.2	10.6
Total Cyanide (Low Level 1 µg/l)	µg/l	1	ISO 17025	< 1.0	< 1.0	2.3	2.2	< 1.0

Total Phenols

Total Phenols (monohydric)	µg/l	1	ISO 17025	2.3	3.5	7.7	7.8	2.4
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Speciated PAHs

Naphthalene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	0.28	1.1	1.8
Acenaphthylene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	0.15	0.16	< 0.01
Acenaphthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	6.5	7.0	1.3
Fluorene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	2.2	2.5	0.45
Phenanthrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	1.3	2.2	0.51
Anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	0.48	0.42	0.18
Fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	0.27	0.18
Pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	0.17	0.19
Benzo(a)anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Chrysene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(b)fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(k)fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(a)pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Indeno(1,2,3-cd)pyrene	µg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Dibenz(a,h)anthracene	µg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(ghi)perylene	µg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01

Total PAH

Total EPA-16 PAHs	µg/l	0.2	NONE	< 0.2	< 0.2	11	14	4.6
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Heavy Metals / Metalloids

Arsenic (dissolved)	µg/l	1.1	ISO 17025	3.5	1.4	5.6	6.9	5.1
Cadmium (dissolved)	µg/l	0.08	ISO 17025	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08
Chromium (hexavalent)	µg/l	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Chromium (dissolved)	µg/l	0.4	ISO 17025	1.9	1.2	2.5	3.6	3.9
Copper (dissolved)	µg/l	0.7	ISO 17025	88	17	31	24	22
Lead (dissolved)	µg/l	1	ISO 17025	5.7	2.8	5.2	3.9	8.2
Mercury (dissolved)	µg/l	0.5	ISO 17025	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Nickel (dissolved)	µg/l	0.3	ISO 17025	3.6	1.6	2.8	2.2	1.4
Selenium (dissolved)	µg/l	4	ISO 17025	< 4.0	< 4.0	< 4.0	5.8	< 4.0
Zinc (dissolved)	µg/l	0.4	ISO 17025	26	23	11	1.8	1.9



Analytical Report Number: 18-94596

Project / Site name: Bowes St

Lab Sample Number				1012758	1012759	1012760	1012761	1012762
Sample Reference				TP116	TP117	TP118	TP119	TP120
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.30	0.95	0.40	0.70	1.00
Date Sampled				30/07/2018	30/07/2018	30/07/2018	30/07/2018	30/07/2018
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Leachate Analysis)				Units	Limit of detection	Accreditation Status		

Monoaromatics

Benzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p & m-xylene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-xylene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10

Petroleum Hydrocarbons

TPH1 (C10 - C40)	µg/l	10	NONE	< 10	< 10	11	14	< 10
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TPH-CWG - Aliphatic >C5 - C6	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aliphatic >C6 - C8	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aliphatic >C8 - C10	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aliphatic >C10 - C12	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic >C12 - C16	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic >C16 - C21	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic >C21 - C35	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic (C5 - C35)	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10

TPH-CWG - Aromatic >C5 - C7	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aromatic >C7 - C8	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aromatic >C8 - C10	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aromatic >C10 - C12	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >C12 - C16	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >C16 - C21	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >C21 - C35	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic (C5 - C35)	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10



Analytical Report Number : 18-94596

Project / Site name: Bowes St

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
1012723	TP101	None Supplied	0.20	Brown clay and loam with gravel.
1012724	TP102	None Supplied	0.85	Brown clay and loam with gravel.
1012725	TP103	None Supplied	0.50	Brown clay and sand with gravel.
1012726	TP104	None Supplied	0.75	Brown clay and sand with gravel and brick.
1012727	TP105	None Supplied	0.40	Brown clay and sand with gravel and brick.
1012728	TP106	None Supplied	0.10	Brown clay and sand with gravel.
1012729	TP107	None Supplied	0.95	Brown clay and sand with gravel and brick.
1012730	TP108	None Supplied	0.60	Brown clay and sand with gravel and brick.
1012731	TP109	None Supplied	0.40	Brown clay and sand with gravel and brick.
1012732	TP110	None Supplied	0.25	Brown clay and sand with gravel and brick.
1012733	TP111	None Supplied	0.80	Brown clay and sand with gravel and brick.
1012734	TP112	None Supplied	0.50	Brown clay and sand with gravel and rubble.
1012735	TP113	None Supplied	0.25	Brown clay and sand with gravel.
1012736	TP114	None Supplied	0.15	Brown clay and sand with gravel and brick.
1012737	TP115	None Supplied	0.85	Light brown loam and sand with gravel and brick.
1012738	TP116	None Supplied	0.30	Brown clay and sand with gravel and brick.
1012739	TP117	None Supplied	0.95	Brown clay and sand with gravel and brick.
1012740	TP118	None Supplied	0.40	Brown clay and sand with gravel and brick.
1012741	TP119	None Supplied	0.70	Brown clay and sand with gravel and brick.
1012742	TP120	None Supplied	1.00	Brown loam and sand with gravel and brick.

Analytical Report Number : 18-94596

Project / Site name: Bowes St

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Water (PrW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
BS EN 12457-1 (2:1) Leachate Prep	2:1 (as recieved, moisture adjusted) end over end extraction with water for 24 hours. Eluate filtered prior to analysis.	In-house method based on BSEN12457-1.	L043-PL	W	NONE
BTEX and MTBE in leachates (Monoaromatics)	Determination of BTEX and MTBE in leachates by headspace GC-MS.	In-house method based on USEPA8260	L073B-PL	W	ISO 17025
BTEX and MTBE in soil (Monoaromatics)	Determination of BTEX in soil by headspace GC-MS.	In-house method based on USEPA8260	L073B-PL	W	MCERTS
Hexavalent chromium in leachate	Determination of hexavalent chromium in leachate by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry.	In-house method	L080-PL	W	NONE
Metals by ICP-OES in leachate	Determination of metals in leachate by acidification followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L039-PL	W	ISO 17025
Moisture Content	Moisture content, determined gravimetrically.	In-house method based on BS1377 Part 2, 1990, Chemical and Electrochemical Tests	L019-UK/PL	W	NONE
Monohydric phenols in leachate - LOW LEVEL 1 ug/l	Determination of phenols in leachate by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	ISO 17025
pH at 20oC in leachate	Determination of pH in leachate by electrometric measurement.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L005-PL	W	ISO 17025
Speciated EPA-16 PAHs in leachate	Determination of PAH compounds in leachate by extraction in dichloromethane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L102B-PL	W	NONE
Speciated EPA-16 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Total cyanide in leachate - 1µg/l	Determination of total cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	ISO 17025
TPH1 (Leachates)	Determination of dichloromethane extractable hydrocarbons in leachate by GC-MS.	In-house method	L070-PL	W	NONE
TPHCWG (Soil)	Determination of hexane extractable hydrocarbons in soil by GC-MS/GC-FID.	In-house method	L088/76-PL	W	MCERTS

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.

For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.

Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

APPENDIX VII WASTE TRANSFER NOTES



MAHER CN 86799

W. MAHER & SONS LTD.
Rixton Old Hall, Manchester Road, Rixton, Warrington, WAG 9EW
T: 0161 776 2200 F: 0161 848 7357 E: enquiries@wmaherandsons.com

Bulk Excavation & Disposal • Ground Remediation
Quarried & Recycled Aggregates • Site Preparation

CONSIGNMENT NOTE

Customer: Rowlinson Date: 13.11.18

Loaded at: Bowes St. Moss Side

Delivered to: T. Wall

Driver: MARTIN A Veh. Reg.: FVJ

Tick ☐ 1 x 8 wh. load: Off Site Material

Tick ☐ 1 x 8 wh. load: Delivered Material

Daywork / Hours Worked

Travel Time

Signature

Forman or Agent's Signature

CONDITIONS OF SALE: It is essential that all written particulars entered above should be carefully checked by the consignee since this delivery note, once signed by the driver, represents formal acceptance of the material in good order and condition and subsequent complaints cannot be accepted.

THIS IS NOT A WASTE TRANSFER NOTE Form MAH0016 Rev 05 04/17

MAHER CN 86801

W. MAHER & SONS LTD.
Rixton Old Hall, Manchester Road, Rixton, Warrington, WAG 9EW
T: 0161 776 2200 F: 0161 848 7357 E: enquiries@wmaherandsons.com

Bulk Excavation & Disposal • Ground Remediation
Quarried & Recycled Aggregates • Site Preparation

CONSIGNMENT NOTE

Customer: Rowlinson Date: 13.11.18

Loaded at: Bowes St. Moss Side

Delivered to: TW

Driver: MARTIN A Veh. Reg.: FVJ

Tick ☐ 1 x 8 wh. load: Off Site Material

Tick ☐ 1 x 8 wh. load: Delivered Material

Daywork / Hours Worked

Travel Time

Signature

Forman or Agent's Signature

CONDITIONS OF SALE: It is essential that all written particulars entered above should be carefully checked by the consignee since this delivery note, once signed by the driver, represents formal acceptance of the material in good order and condition and subsequent complaints cannot be accepted.

MAHER CN 86802

W. MAHER & SONS LTD.
Rixton Old Hall, Manchester Road, Rixton, Warrington, WAG 9EW
T: 0161 776 2200 F: 0161 848 7357 E: enquiries@wmaherandsons.com

Bulk Excavation & Disposal • Ground Remediation
Quarried & Recycled Aggregates • Site Preparation

CONSIGNMENT NOTE

Customer: Rowlinson Date: 13.11.18

Loaded at: Bowes St. Moss Side

Delivered to: T. Wall

Driver: MARTIN A Veh. Reg.: FVJ

Tick ☐ 1 x 8 wh. load: Off Site Material

Tick ☐ 1 x 8 wh. load: Delivered Material

Daywork / Hours Worked

Travel Time

Signature

Forman or Agent's Signature

CONDITIONS OF SALE: It is essential that all written particulars entered above should be carefully checked by the consignee since this delivery note, once signed by the driver, represents formal acceptance of the material in good order and condition and subsequent complaints cannot be accepted.

THIS IS NOT A WASTE TRANSFER NOTE Form MAH0016 Rev 05 04/17

MAHER CN 86803

W. MAHER & SONS LTD.
Rixton Old Hall, Manchester Road, Rixton, Warrington, WAG 9EW
T: 0161 776 2200 F: 0161 848 7357 E: enquiries@wmaherandsons.com

Bulk Excavation & Disposal • Ground Remediation
Quarried & Recycled Aggregates • Site Preparation

CONSIGNMENT NOTE

Customer: Rowlinson Date: 13.11.18

Loaded at: Bowes St. Moss Side

Delivered to: T. Wall

Driver: MARTIN A Veh. Reg.: FVJ

Tick ☐ 1 x 8 wh. load: Off Site Material

Tick ☐ 1 x 8 wh. load: Delivered Material

Daywork / Hours Worked

Travel Time

Signature

Forman or Agent's Signature

CONDITIONS OF SALE: It is essential that all written particulars entered above should be carefully checked by the consignee since this delivery note, once signed by the driver, represents formal acceptance of the material in good order and condition and subsequent complaints cannot be accepted.

MAHER CN 86800

W. MAHER & SONS LTD.
Rixton Old Hall, Manchester Road, Rixton, Warrington, WAG 9EW
T: 0161 776 2200 F: 0161 848 7357 E: enquiries@wmaherandsons.com

Bulk Excavation & Disposal • Ground Remediation
Quarried & Recycled Aggregates • Site Preparation

CONSIGNMENT NOTE

Customer: Rowlinson Date: 13.11.18

Loaded at: Bowes St. Moss Side

Delivered to: T. Wall

Driver: MARTIN A Veh. Reg.: FVJ

Tick ☐ 1 x 8 wh. load: Off Site Material

Tick ☐ 1 x 8 wh. load: Delivered Material

Daywork / Hours Worked

Travel Time

Signature

Forman or Agent's Signature

CONDITIONS OF SALE: It is essential that all written particulars entered above should be carefully checked by the consignee since this delivery note, once signed by the driver, represents formal acceptance of the material in good order and condition and subsequent complaints cannot be accepted.

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MAHER CN 88063

W. MAHER & SONS LTD.
Rixton Old Hall, Manchester Road, Rixton, Warrington, WAG 9EW
T: 0161 776 2200 F: 0161 848 7357 E: enquiries@wmaherandsons.com

Bulk Excavation & Disposal • Ground Remediation
Quarried & Recycled Aggregates • Site Preparation

CONSIGNMENT NOTE

Customer: Rowlinson Date: 13.11.18

Loaded at: Moss Side

Delivered to: TW

Driver: CHAS Veh. Reg.: FVJ

Tick ☐ 1 x 8 wh. load: Off Site Material

Tick ☐ 1 x 8 wh. load: Delivered Material

Daywork / Hours Worked

Travel Time

Signature

Forman or Agent's Signature

CONDITIONS OF SALE: It is essential that all written particulars entered above should be carefully checked by the consignee since this delivery note, once signed by the driver, represents formal acceptance of the material in good order and condition and subsequent complaints cannot be accepted.

15x12.5 = 180
15x8.5 = 120
300
653
953

Maher	CN 86283
W. MAHER & SONS LTD. Ruton Old Hall, Manchester Road, Rixton, Warrington, WA3 6EW T: 0161 776 2200 F: 0161 848 7357 E: enquiries@wmaherandsons.com	
Bulk Excavation & Disposal • Ground Remediation Quarried & Recycled Aggregates • Site Preparation	
CONSIGNMENT NOTE	
Customer: Rowlinson	Date: 13-11-18
Loaded at: Moss side	
Delivered to: TIP	
Driver: D Miller	Veh. Reg.: ZSG
Tick ☒ 1 x 8 wh. load: Off Site	Material: MULCH
Tick ☐ 1 x 8 wh. load: Delivered	Material:
Daywork / Sitework	Hours Worked
Travel Time	Total Hours
Foreman or Agent's Signature	
CONDITIONS OF SALE: It is essential that all written particulars entered above should be carefully checked by the consignee since this delivery note, once signed by the consignee, represents formal acceptance of the material in good order and condition and subsequent complaints cannot be accepted. All complaints whether in respect of material or circumstances of delivery must be made to the driver of the vehicle and be confirmed in writing direct to the company immediately. All materials and title to same remain the property of supplier until paid in full.	
THIS IS NOT A WASTE TRANSFER NOTE Form MAH0016 Rev 05 04/17	

Maher	CN 86286
W. MAHER & SONS LTD. Ruton Old Hall, Manchester Road, Rixton, Warrington, WA3 6EW T: 0161 776 2200 F: 0161 848 7357 E: enquiries@wmaherandsons.com	
Bulk Excavation & Disposal • Ground Remediation Quarried & Recycled Aggregates • Site Preparation	
CONSIGNMENT NOTE	
Customer: Rowlinson	Date: 13-11-18
Loaded at: Moss side	
Delivered to: TIP	
Driver: D Miller	Veh. Reg.: ZSG
Tick ☒ 1 x 8 wh. load: Off Site	Material: MULCH
Tick ☐ 1 x 8 wh. load: Delivered	Material:
Daywork / Sitework	Hours Worked
Travel Time	Total Hours
Foreman or Agent's Signature	
CONDITIONS OF SALE: It is essential that all written particulars entered above should be carefully checked by the consignee since this delivery note, once signed by the consignee, represents formal acceptance of the material in good order and condition and subsequent complaints cannot be accepted. All complaints whether in respect of material or circumstances of delivery must be made to the driver of the vehicle and be confirmed in writing direct to the company immediately. All materials and title to same remain the property of supplier until paid in full.	
THIS IS NOT A WASTE TRANSFER NOTE Form MAH0016 Rev 05 04/17	

Maher	CN 88064
W. MAHER & SONS LTD. Ruton Old Hall, Manchester Road, Rixton, Warrington, WA3 6EW T: 0161 776 2200 F: 0161 848 7357 E: enquiries@wmaherandsons.com	
Bulk Excavation & Disposal • Ground Remediation Quarried & Recycled Aggregates • Site Preparation	
CONSIGNMENT NOTE	
Customer: Rowlinson	Date: 13-11-18
Loaded at: Moss side	
Delivered to: TW	
Driver: CHRIS	Veh. Reg.: FVC
Tick ☐ 1 x 8 wh. load: Off Site	Material: MUCK
Tick ☐ 1 x 8 wh. load: Delivered	Material: 1/2 LOAD
Daywork / Sitework	Hours Worked
Travel Time	Total Hours
Foreman or Agent's Signature	
CONDITIONS OF SALE: It is essential that all written particulars entered above should be carefully checked by the consignee since this delivery note, once signed by the consignee, represents formal acceptance of the material in good order and condition and subsequent complaints cannot be accepted. All complaints whether in respect of material or circumstances of delivery must be made to the driver of the vehicle and be confirmed in writing direct to the company immediately.	

Maher	CN 88065
W. MAHER & SONS LTD. Ruton Old Hall, Manchester Road, Rixton, Warrington, WA3 6EW T: 0161 776 2200 F: 0161 848 7357 E: enquiries@wmaherandsons.com	
Bulk Excavation & Disposal • Ground Remediation Quarried & Recycled Aggregates • Site Preparation	
CONSIGNMENT NOTE	
Customer: Rowlinson	Date: 13-11-18
Loaded at: Moss side	
Delivered to: TW	
Driver: CHRIS	Veh. Reg.: FVC
Tick ☐ 1 x 8 wh. load: Off Site	Material: MUCK
Tick ☐ 1 x 8 wh. load: Delivered	Material: 1/2 LOAD
Daywork / Sitework	Hours Worked
Travel Time	Total Hours
Foreman or Agent's Signature	
CONDITIONS OF SALE: It is essential that all written particulars entered above should be carefully checked by the consignee since this delivery note, once signed by the consignee, represents formal acceptance of the material in good order and condition and subsequent complaints cannot be accepted. All complaints whether in respect of material or circumstances of delivery must be made to the driver of the vehicle and be confirmed in writing direct to the company immediately.	

Maher	CN 88066
W. MAHER & SONS LTD. Ruton Old Hall, Manchester Road, Rixton, Warrington, WA3 6EW T: 0161 776 2200 F: 0161 848 7357 E: enquiries@wmaherandsons.com	
Bulk Excavation & Disposal • Ground Remediation Quarried & Recycled Aggregates • Site Preparation	
CONSIGNMENT NOTE	
Customer: Rowlinson	Date: 13-11-18
Loaded at: Moss side	
Delivered to: TW	
Driver: CHRIS	Veh. Reg.: FVC
Tick ☐ 1 x 8 wh. load: Off Site	Material: MUCK
Tick ☐ 1 x 8 wh. load: Delivered	Material: 1/2 LOAD
Daywork / Sitework	Hours Worked
Travel Time	Total Hours
Foreman or Agent's Signature	
CONDITIONS OF SALE: It is essential that all written particulars entered above should be carefully checked by the consignee since this delivery note, once signed by the consignee, represents formal acceptance of the material in good order and condition and subsequent complaints cannot be accepted. All complaints whether in respect of material or circumstances of delivery must be made to the driver of the vehicle and be confirmed in writing direct to the company immediately.	

Maher	CN 88067
W. MAHER & SONS LTD. Ruton Old Hall, Manchester Road, Rixton, Warrington, WA3 6EW T: 0161 776 2200 F: 0161 848 7357 E: enquiries@wmaherandsons.com	
Bulk Excavation & Disposal • Ground Remediation Quarried & Recycled Aggregates • Site Preparation	
CONSIGNMENT NOTE	
Customer: Rowlinson	Date: 13-11-18
Loaded at: Moss side	
Delivered to: TW	
Driver: CHRIS	Veh. Reg.: FVC
Tick ☐ 1 x 8 wh. load: Off Site	Material: MUCK
Tick ☐ 1 x 8 wh. load: Delivered	Material: 1/2 LOAD
Daywork / Sitework	Hours Worked
Travel Time	Total Hours
Foreman or Agent's Signature	
CONDITIONS OF SALE: It is essential that all written particulars entered above should be carefully checked by the consignee since this delivery note, once signed by the consignee, represents formal acceptance of the material in good order and condition and subsequent complaints cannot be accepted. All complaints whether in respect of material or circumstances of delivery must be made to the driver of the vehicle and be confirmed in writing direct to the company immediately.	

Maher	CN 86282
W. MAHER & SONS LTD. Ruton Old Hall, Manchester Road, Rixton, Warrington, WA3 6EW T: 0161 776 2200 F: 0161 848 7357 E: enquiries@wmaherandsons.com	
Bulk Excavation & Disposal • Ground Remediation Quarried & Recycled Aggregates • Site Preparation	
CONSIGNMENT NOTE	
Customer: Rowlinson	Date: 13-11-18
Loaded at: Moss side	
Delivered to: TIP	
Driver: D Miller	Veh. Reg.: ZSG
Tick ☒ 1 x 8 wh. load: Off Site	Material: MULCH
Tick ☐ 1 x 8 wh. load: Delivered	Material:
Daywork / Sitework	Hours Worked
Travel Time	Total Hours
Foreman or Agent's Signature	
CONDITIONS OF SALE: It is essential that all written particulars entered above should be carefully checked by the consignee since this delivery note, once signed by the consignee, represents formal acceptance of the material in good order and condition and subsequent complaints cannot be accepted. All complaints whether in respect of material or circumstances of delivery must be made to the driver of the vehicle and be confirmed in writing direct to the company immediately. All materials and title to same remain the property of supplier until paid in full.	
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MAHER CN 86946

W. MAHER & SONS LTD.
Rixton Old Hall, Manchester Road, Rixton, Warrington, WA3 6EW
T: 0161 776 2200 F: 0161 848 7357 E: enquiries@wmaherandsons.com

Bulk Excavation & Disposal • Ground Remediation
Quarried & Recycled Aggregates • Site Preparation

CONSIGNMENT NOTE

Customer: Rowlinson Date: 13-11

Loaded at: MOSS

Delivered to: TYP

Driver: maris Veh. Reg: xslp

Tick ☒ 1 x 8 wh. load: Off Site Material muck

Tick ☐ 1 x 8 wh. load: Delivered Material

Daywork / Hours Worked 13 Travel Time 11 Total Hours

Foreman or Agent's Signature [Signature]

CONDITIONS OF SALE: It is essential that all written particulars entered above should be carefully checked by the consignee since this delivery note, once signed by the consignee, represents formal acceptance of the material in good order and condition and subsequent complaints cannot be accepted.

All complaints whether in respect of material or circumstances of delivery must be made to the driver of the vehicle and be confirmed in writing direct to the company immediately.

All materials and till to same remain the property of supplier until paid in full.

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MAHER CN 86284

W. MAHER & SONS LTD.
Rixton Old Hall, Manchester Road, Rixton, Warrington, WA3 6EW
T: 0161 776 2200 F: 0161 848 7357 E: enquiries@wmaherandsons.com

Bulk Excavation & Disposal • Ground Remediation
Quarried & Recycled Aggregates • Site Preparation

CONSIGNMENT NOTE

Customer: Rowlinson Date: 13-12-18

Loaded at: MOSS side

Delivered to: TYP

Driver: P. Miller Veh. Reg: ZSG

Tick ☒ 1 x 8 wh. load: Off Site Material Muck

Tick ☐ 1 x 8 wh. load: Delivered Material

Daywork / Hours Worked 13 Travel Time 11 Total Hours

Foreman or Agent's Signature [Signature]

CONDITIONS OF SALE: It is essential that all written particulars entered above should be carefully checked by the consignee since this delivery note, once signed by the consignee, represents formal acceptance of the material in good order and condition and subsequent complaints cannot be accepted.

All complaints whether in respect of material or circumstances of delivery must be made to the driver of the vehicle and be confirmed in writing direct to the company immediately.

All materials and till to same remain the property of supplier until paid in full.

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MAHER CN 86945

W. MAHER & SONS LTD.
Rixton Old Hall, Manchester Road, Rixton, Warrington, WA3 6EW
T: 0161 776 2200 F: 0161 848 7357 E: enquiries@wmaherandsons.com

Bulk Excavation & Disposal • Ground Remediation
Quarried & Recycled Aggregates • Site Preparation

CONSIGNMENT NOTE

Customer: Rowlinson Date: 13/11

Loaded at: MOSS

Delivered to: TYP

Driver: mark Veh. Reg: xslp

Tick ☒ 1 x 8 wh. load: Off Site Material muck

Tick ☐ 1 x 8 wh. load: Delivered Material

Daywork / Hours Worked 13 Travel Time 11 Total Hours

Foreman or Agent's Signature [Signature]

CONDITIONS OF SALE: It is essential that all written particulars entered above should be carefully checked by the consignee since this delivery note, once signed by the consignee, represents formal acceptance of the material in good order and condition and subsequent complaints cannot be accepted.

All complaints whether in respect of material or circumstances of delivery must be made to the driver of the vehicle and be confirmed in writing direct to the company immediately.

All materials and till to same remain the property of supplier until paid in full.

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MAHER CN 86949

W. MAHER & SONS LTD.
Rixton Old Hall, Manchester Road, Rixton, Warrington, WA3 6EW
T: 0161 776 2200 F: 0161 848 7357 E: enquiries@wmaherandsons.com

Bulk Excavation & Disposal • Ground Remediation
Quarried & Recycled Aggregates • Site Preparation

CONSIGNMENT NOTE

Customer: Rowlinson Date: 13/11

Loaded at: MOSS

Delivered to: TYP

Driver: mark Veh. Reg: xslp

Tick ☒ 1 x 8 wh. load: Off Site Material Muck

Tick ☐ 1 x 8 wh. load: Delivered Material

Daywork / Hours Worked 13 Travel Time 11 Total Hours

Foreman or Agent's Signature [Signature]

CONDITIONS OF SALE: It is essential that all written particulars entered above should be carefully checked by the consignee since this delivery note, once signed by the consignee, represents formal acceptance of the material in good order and condition and subsequent complaints cannot be accepted.

All complaints whether in respect of material or circumstances of delivery must be made to the driver of the vehicle and be confirmed in writing direct to the company immediately.

All materials and till to same remain the property of supplier until paid in full.

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MAHER CN 66823

W. MAHER & SONS LTD.
Rixton Old Hall, Manchester Road, Rixton, Warrington, WA3 6EW
T: 0161 776 2200 F: 0161 848 7357 E: enquiries@wmaherandsons.com

Bulk Excavation & Disposal • Ground Remediation
Quarried & Recycled Aggregates • Site Preparation

CONSIGNMENT NOTE

Customer: Rowlinson Date: 13/11/18

Loaded at: Moss Side

Delivered to: TYP

Driver: Josh Veh. Reg: FUE

Tick ☒ 1 x 8 wh. load: Off Site Material Muck 1/2

Tick ☐ 1 x 8 wh. load: Delivered Material

Daywork / Hours Worked 13 Travel Time 11 Total Hours

Foreman or Agent's Signature [Signature]

CONDITIONS OF SALE: It is essential that all written particulars entered above should be carefully checked by the consignee since this delivery note, once signed by the consignee, represents formal acceptance of the material in good order and condition and subsequent complaints cannot be accepted.

All complaints whether in respect of material or circumstances of delivery must be made to the driver of the vehicle and be confirmed in writing direct to the company immediately.

All materials and till to same remain the property of supplier until paid in full.

THIS IS NOT A WASTE TRANSFER NOTE Form MAHQD016 Rev 05 04/17

MAHER CN 86947

W. MAHER & SONS LTD.
Rixton Old Hall, Manchester Road, Rixton, Warrington, WA3 6EW
T: 0161 776 2200 F: 0161 848 7357 E: enquiries@wmaherandsons.com

Bulk Excavation & Disposal • Ground Remediation
Quarried & Recycled Aggregates • Site Preparation

CONSIGNMENT NOTE

Customer: Rowlinson Date: 13/11

Loaded at: MOSS

Delivered to: TYP

Driver: mark Veh. Reg: xslp

Tick ☒ 1 x 8 wh. load: Off Site Material muck

Tick ☐ 1 x 8 wh. load: Delivered Material

Daywork / Hours Worked 13 Travel Time 11 Total Hours

Foreman or Agent's Signature [Signature]

CONDITIONS OF SALE: It is essential that all written particulars entered above should be carefully checked by the consignee since this delivery note, once signed by the consignee, represents formal acceptance of the material in good order and condition and subsequent complaints cannot be accepted.

All complaints whether in respect of material or circumstances of delivery must be made to the driver of the vehicle and be confirmed in writing direct to the company immediately.

All materials and till to same remain the property of supplier until paid in full.

THIS IS NOT A WASTE TRANSFER NOTE Form MAHQD016 Rev 05 04/17

MAHER CN 66824

W. MAHER & SONS LTD.
Rixton Old Hall, Manchester Road, Rixton, Warrington, WA3 6EW
T: 0161 776 2200 F: 0161 848 7357 E: enquiries@wmaherandsons.com

Bulk Excavation & Disposal • Ground Remediation
Quarried & Recycled Aggregates • Site Preparation

CONSIGNMENT NOTE

Customer: Rowlinson Date: 13/11/18

Loaded at: Moss Side

Delivered to: TYP

Driver: Josh Veh. Reg: FUE

Tick ☒ 1 x 8 wh. load: Off Site Material Muck 1/2

Tick ☐ 1 x 8 wh. load: Delivered Material

Daywork / Hours Worked 13 Travel Time 11 Total Hours

Foreman or Agent's Signature [Signature]

CONDITIONS OF SALE: It is essential that all written particulars entered above should be carefully checked by the consignee since this delivery note, once signed by the consignee, represents formal acceptance of the material in good order and condition and subsequent complaints cannot be accepted.

All complaints whether in respect of material or circumstances of delivery must be made to the driver of the vehicle and be confirmed in writing direct to the company immediately.

All materials and till to same remain the property of supplier until paid in full.

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MAHER CN 86948

W. MAHER & SONS LTD.
Rixton Old Hall, Manchester Road, Rixton, Warrington, WA3 6EW
T: 0161 776 2200 F: 0161 848 7357 E: enquiries@wmaherandsons.com

Bulk Excavation & Disposal • Ground Remediation
Quarried & Recycled Aggregates • Site Preparation

CONSIGNMENT NOTE

Customer: Rowlinson Date: 13/11

Loaded at: MOSS

Delivered to: TYP

Driver: mark Veh. Reg: xslp

Tick ☒ 1 x 8 wh. load: Off Site Material muck

Tick ☐ 1 x 8 wh. load: Delivered Material

Daywork / Hours Worked 13 Travel Time 11 Total Hours

Foreman or Agent's Signature [Signature]

CONDITIONS OF SALE: It is essential that all written particulars entered above should be carefully checked by the consignee since this delivery note, once signed by the consignee, represents formal acceptance of the material in good order and condition and subsequent complaints cannot be accepted.

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All materials and till to same remain the property of supplier until paid in full.

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W. MAHER & SONS LTD. Rixon Old Hall, Manchester Road, Rixton, Warrington, WA3 9EW T: 0161 776 2200 F: 0161 848 7357 E: enquiries@wmaherandsons.com

MAHER CN 67767

Bulk Excavation & Disposal - Ground Remediation Quarried & Recycled Aggregates - Site Preparation

CONSIGNMENT NOTE

Customer: ROWLINSIN Date: 13-11-18

Loaded at: MOSS SIDE

Delivered to: TIP

Driver: S FARNELL Vch. Reg: MK66 MKD

Tick ☒ 1 x 8 wh. load: Off Site Material: MUCK

Tick ☐ 1 x 8 wh. load: Delivered

Daywork / Stewwork Hours Worked Travel Time Total Hours

Foreman or Agent's Signature

CONDITIONS OF SALE: It is essential that all written particulars entered above should be checked by the consignee since this delivery note, once signed by the consignee, represents formal acceptance of the material in good order and condition and subsequent complaints cannot be accepted.

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W. MAHER & SONS LTD. Rixon Old Hall, Manchester Road, Rixton, Warrington, WA3 9EW T: 0161 776 2200 F: 0161 848 7357 E: enquiries@wmaherandsons.com

MAHER CN 67771

Bulk Excavation & Disposal - Ground Remediation Quarried & Recycled Aggregates - Site Preparation

CONSIGNMENT NOTE

Customer: ROWLINSIN Date: 13-11-18

Loaded at: MOSS SIDE

Delivered to: TIP

Driver: S FARNELL Vch. Reg: MK66 MKD

Tick ☒ 1 x 8 wh. load: Off Site Material: MUCK

Tick ☐ 1 x 8 wh. load: Delivered

Daywork / Stewwork Hours Worked Travel Time Total Hours

Foreman or Agent's Signature

CONDITIONS OF SALE: It is essential that all written particulars entered above should be checked by the consignee since this delivery note, once signed by the consignee, represents formal acceptance of the material in good order and condition and subsequent complaints cannot be accepted.

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W. MAHER & SONS LTD. Rixon Old Hall, Manchester Road, Rixton, Warrington, WA3 9EW T: 0161 776 2200 F: 0161 848 7357 E: enquiries@wmaherandsons.com

MAHER CN 67768

Bulk Excavation & Disposal - Ground Remediation Quarried & Recycled Aggregates - Site Preparation

CONSIGNMENT NOTE

Customer: ROWLINSIN Date: 13-11-18

Loaded at: MOSS SIDE

Delivered to: TIP

Driver: S FARNELL Vch. Reg: MK66 MKD

Tick ☒ 1 x 8 wh. load: Off Site Material: MUCK

Tick ☐ 1 x 8 wh. load: Delivered

Daywork / Stewwork Hours Worked Travel Time Total Hours

Foreman or Agent's Signature

CONDITIONS OF SALE: It is essential that all written particulars entered above should be checked by the consignee since this delivery note, once signed by the consignee, represents formal acceptance of the material in good order and condition and subsequent complaints cannot be accepted.

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W. MAHER & SONS LTD. Rixon Old Hall, Manchester Road, Rixton, Warrington, WA3 9EW T: 0161 776 2200 F: 0161 848 7357 E: enquiries@wmaherandsons.com

MAHER CN 6821

Bulk Excavation & Disposal - Ground Remediation Quarried & Recycled Aggregates - Site Preparation

CONSIGNMENT NOTE

Customer: Rowlinsin Date: 13/11/18

Loaded at: Moss Side

Delivered to: Tip

Driver: Josh Vch. Reg: PVE

Tick ☒ 1 x 8 wh. load: Off Site Material: Muck 1/2 load

Tick ☐ 1 x 8 wh. load: Delivered

Daywork / Stewwork Hours Worked Travel Time Total Hours

Foreman or Agent's Signature

CONDITIONS OF SALE: It is essential that all written particulars entered above should be checked by the consignee since this delivery note, once signed by the consignee, represents formal acceptance of the material in good order and condition and subsequent complaints cannot be accepted.

THIS IS NOT A WASTE TRANSFER NOTE Form MAH0016 Rev 05 04/17

W. MAHER & SONS LTD. Rixon Old Hall, Manchester Road, Rixton, Warrington, WA3 9EW T: 0161 776 2200 F: 0161 848 7357 E: enquiries@wmaherandsons.com

MAHER CN 6819

Bulk Excavation & Disposal - Ground Remediation Quarried & Recycled Aggregates - Site Preparation

CONSIGNMENT NOTE

Customer: Rowlinsin Date: 13/11/18

Loaded at: Moss Side

Delivered to: Tip

Driver: Josh Vch. Reg: PVE

Tick ☒ 1 x 8 wh. load: Off Site Material: Muck 1/2 load

Tick ☐ 1 x 8 wh. load: Delivered

Daywork / Stewwork Hours Worked Travel Time Total Hours

Foreman or Agent's Signature

CONDITIONS OF SALE: It is essential that all written particulars entered above should be checked by the consignee since this delivery note, once signed by the consignee, represents formal acceptance of the material in good order and condition and subsequent complaints cannot be accepted.

THIS IS NOT A WASTE TRANSFER NOTE Form MAH0016 Rev 05 04/17

W. MAHER & SONS LTD. Rixon Old Hall, Manchester Road, Rixton, Warrington, WA3 9EW T: 0161 776 2200 F: 0161 848 7357 E: enquiries@wmaherandsons.com

MAHER CN 67769

Bulk Excavation & Disposal - Ground Remediation Quarried & Recycled Aggregates - Site Preparation

CONSIGNMENT NOTE

Customer: Rowlinsin Date: 13-11-18

Loaded at: Moss Side

Delivered to: Tip

Driver: S FARNELL Vch. Reg: MK66 MKD

Tick ☒ 1 x 8 wh. load: Off Site Material: MUCK

Tick ☐ 1 x 8 wh. load: Delivered

Daywork / Stewwork Hours Worked Travel Time Total Hours

Foreman or Agent's Signature

CONDITIONS OF SALE: It is essential that all written particulars entered above should be checked by the consignee since this delivery note, once signed by the consignee, represents formal acceptance of the material in good order and condition and subsequent complaints cannot be accepted.

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		CN 67764	
W. MAHER & SONS LTD. Rinton Old Hall, Manchester Road, Rivington, Warrington, WA5 4BW T: 0151 776 2200 F: 0161 848 7357 E: enquiries@wymarsons.co.uk			
Bulk Excavation & Disposal - Ground Remediation Quarried & Recycled Aggregates - Site Preparation			
CONSIGNMENT NOTE		Date: 7.11.18	
Customer: RBL JVSNW			
Loaded at: MGS SITE			
Delivered to: T.P			
Vnr: S FARRERU	Veh. Reg: MK66 MWD		
Tick ☒ 1 x 8 wh. load: Off Site	Material MCK		
dx ☐ 1 x 6 wh. load: Delivered	Material		
Daywork / Stowork	Hours Worked	Travel Time	Total Hours
Foreman or Agent's Signature			
CONDITIONS OF SALE: It is essential that all written particulars entered above should be immediately checked by the consignee since this delivery note, once signed by the consignee, represents formal acceptance of the material in good order and condition and subsequent complainants cannot be accepted. The time and circumstances of delivery must be made to the consignee at the time of delivery and must be confirmed in writing direct to the company immediately. All materials and title to same remain the property of supplier until paid in full.			

		CN 67761	
W. MAHER & SONS LTD. Raton Old Hall, Manchester Road, Raton, Warrington. WA3 6SW T: 0161 775 2200 F: 0161 848 7357 E: enquiries@wmaherandsons.com			
Bulk Excavation & Disposal • Ground Remediation Quarried & Recycled Aggregates • Site Preparation			
CONSIGNMENT NOTE			
Customer:	ROWLINSAN		Date: 12.11.18
Loaded at:	MOSS SIDE		
Delivered to:	T.P		
Driver:	S FARNELL		
Tick ☒ 1 x 8 wh. lead: Off Site	Material Veh. Reg: YMK64 MKD		
Tick ☐ 1 x 8 wh. lead: Delivered	Material MMLX		
Daywork / Slabwork	Hours Worked	Travel Time	Total Hours
Foreman or Agent's Signature 			

CONDITIONS OF SALE: It is essential that all written conditions entered above should be signed by the consignee at the time of delivery. Conditions entered above should be signed by the consignee at the time of delivery. Conditions entered above should be signed by the consignee at the time of delivery. Conditions entered above should be signed by the consignee at the time of delivery.

		CN 67760		
W. MAHER & SONS LTD. Ruten Old Hill, Manchester Road, Ruseon, Warrington, WA3 9EW T: 0161 770 2200 F: 0161 848 7337 E: enquiries@wmaherandsons.com				
Bulk Excavation & Disposal - Ground Remediation Quarried & Recycled Aggregates • Site Preparation				
CONSIGNMENT NOTE				
Customer:	ROWINSON		Date:	12.11.18
Loaded at:	MOSS SIDE			
Delivered to:	TIF			
Driver:	S FARNELL		Veh. Reg:	MK64 MKD
Tick ☒	1 x 8 wh. load: Off Site		Material	
Tick ☐	1 x 8 wh. load: Delivered		Material	
Daywork / Sitework	Hours Worked	Travel Time	Total Hours	
Foreman or Agent's Signature				
CONDITIONS OF SALE: It is essential that all written particulars entered above should be carefully checked by the consignee since this delivery note, once signed by the consignee, represents formal acceptance of the material in good order and condition and the consignee's responsibility for the material. It is the responsibility of the consignee to ensure that all consignments are in accordance with the relevant regulations and standards. All consignments whether in respect of material or circumstances of delivery must be made to the driver of the vehicle and be confirmed in writing direct to the company immediately. All materials and title to same remain the property of supplier until paid in full.				

		CN 91815	
W. MAHER & SONS LTD. Ration Co Ltd, Manchester Road, Rixton, Warrington, WA5 6GW. T: 0161 776 2200 F: 0161 648 7357 E: enquiries@wmaherandsons.com			
Bulk Excavation & Disposal • Ground Remediation Quarried & Recycled Aggregates • Site Preparation			
CONSIGNMENT NOTE			
Customer	Penkethson	Ref	12.11.18
Loaded at:	Wess Side		
Delivered to:	THP		
Driver:	Low	Box	Box
Tick	☒ 1 x 8 wh. load; Off Site	Material	Material
Tick	☐ 1 x 8 wh. load; Delivered	Material	Material
Days/Week / Shiftwork	Hours Worked	Travel Time	Total Hours
Foreman or Agent's			
Signature			
CONDITIONS OF SALE: It is essential that all written particulars entered above should be read in conjunction with the contract of sale. The contract of sale is supplied by the consignee, represents formal acceptance of the material in good order and condition and subsequent consignments cannot be accepted. All consignments whether in respect of material or circumstances of delivery must be made to the			

Maher CN 67765
W. MAHER & SONS LTD.
Rixton Old Hall, Manchester Road, Rixton, Warrington, WA3 6EW
T: 0161 776 2200 F: 0161 848 7357 E: enquiries@wmaherandsons.com

Bulk Excavation & Disposal • Ground Remediation
Quarried & Recycled Aggregates • Site Preparation

CONSIGNMENT NOTE

Customer: ROWLINSON Date: 12.11.18

Loaded at: MOSS SIDE

Delivered to: TWP

Driver: FARRELL Veh. Reg: MK64 MKD

Tick ☒ 1 x 8 wh. load: Off Site Material

Tick ☐ 1 x 8 wh. load: Delivered Material

Daywork / Hours Worked

Travel Time

Foreman or Agent's Signature

CONDITIONS OF SALE: It is essential that all written particulars entered above should be carefully checked by the consignee since this delivery note, once signed by the consignee, represents formal acceptance of the material in good order and condition and subsequent complaints cannot be accepted.

60 + 32 = 92

Maher CN 88061
W. MAHER & SONS LTD.
Rixton Old Hall, Manchester Road, Rixton, Warrington, WA3 6EW
T: 0161 776 2200 F: 0161 848 7357 E: enquiries@wmaherandsons.com

Bulk Excavation & Disposal • Ground Remediation
Quarried & Recycled Aggregates • Site Preparation

CONSIGNMENT NOTE

Customer: ROWLINSON Date: 12.11.18

Loaded at: MOSSIDE

Delivered to: FB

Driver: CHRTS Veh. Reg: FVC

Tick ☐ 1 x 8 wh. load: Off Site Material

Tick ☐ 1 x 8 wh. load: Delivered Material

Daywork / Hours Worked

Travel Time

Foreman or Agent's Signature

CONDITIONS OF SALE: It is essential that all written particulars entered above should be carefully checked by the consignee since this delivery note, once signed by the consignee, represents formal acceptance of the material in good order and condition and subsequent complaints cannot be accepted.

Maher CN 67762
W. MAHER & SONS LTD.
Rixton Old Hall, Manchester Road, Rixton, Warrington, WA3 6EW
T: 0161 776 2200 F: 0161 848 7357 E: enquiries@wmaherandsons.com

Bulk Excavation & Disposal • Ground Remediation
Quarried & Recycled Aggregates • Site Preparation

CONSIGNMENT NOTE

Customer: ROWLINSON Date: 12.11.18

Loaded at: MOSS SIDE

Delivered to: TWP

Driver: FARRELL Veh. Reg: MK64 MKD

Tick ☒ 1 x 8 wh. load: Off Site Material

Tick ☐ 1 x 8 wh. load: Delivered Material

Daywork / Hours Worked

Travel Time

Foreman or Agent's Signature

CONDITIONS OF SALE: It is essential that all written particulars entered above should be carefully checked by the consignee since this delivery note, once signed by the consignee, represents formal acceptance of the material in good order and condition and subsequent complaints cannot be accepted.

Maher CN 88060
W. MAHER & SONS LTD.
Rixton Old Hall, Manchester Road, Rixton, Warrington, WA3 6EW
T: 0161 776 2200 F: 0161 848 7357 E: enquiries@wmaherandsons.com

Bulk Excavation & Disposal • Ground Remediation
Quarried & Recycled Aggregates • Site Preparation

CONSIGNMENT NOTE

Customer: ROWLINSON Date: 12.11.18

Loaded at: MOSSIDE

Delivered to: TW

Driver: CHRTS Veh. Reg: FVC

Tick ☐ 1 x 8 wh. load: Off Site Material

Tick ☐ 1 x 8 wh. load: Delivered Material

Daywork / Hours Worked

Travel Time

Foreman or Agent's Signature

CONDITIONS OF SALE: It is essential that all written particulars entered above should be carefully checked by the consignee since this delivery note, once signed by the consignee, represents formal acceptance of the material in good order and condition and subsequent complaints cannot be accepted.

Maher CN 88058
W. MAHER & SONS LTD.
Rixton Old Hall, Manchester Road, Rixton, Warrington, WA3 6EW
T: 0161 776 2200 F: 0161 848 7357 E: enquiries@wmaherandsons.com

Bulk Excavation & Disposal • Ground Remediation
Quarried & Recycled Aggregates • Site Preparation

CONSIGNMENT NOTE

Customer: ROWLINSON Date: 12.11.18

Loaded at: MOSSIDE

Delivered to: TW

Driver: CHRIS Veh. Reg: FVC

Tick ☐ 1 x 8 wh. load: Off Site Material

Tick ☐ 1 x 8 wh. load: Delivered Material

Daywork / Hours Worked

Travel Time

Foreman or Agent's Signature

CONDITIONS OF SALE: It is essential that all written particulars entered above should be carefully checked by the consignee since this delivery note, once signed by the consignee, represents formal acceptance of the material in good order and condition and subsequent complaints cannot be accepted.

Maher CN 88059
W. MAHER & SONS LTD.
Rixton Old Hall, Manchester Road, Rixton, Warrington, WA3 6EW
T: 0161 776 2200 F: 0161 848 7357 E: enquiries@wmaherandsons.com

Bulk Excavation & Disposal • Ground Remediation
Quarried & Recycled Aggregates • Site Preparation

CONSIGNMENT NOTE

Customer: ROWLINSON Date: 12.11.18

Loaded at: MOSSIDE

Delivered to: TW

Driver: CHRIS Veh. Reg: FVC

Tick ☐ 1 x 8 wh. load: Off Site Material

Tick ☐ 1 x 8 wh. load: Delivered Material

Daywork / Hours Worked

Travel Time

Foreman or Agent's Signature

CONDITIONS OF SALE: It is essential that all written particulars entered above should be carefully checked by the consignee since this delivery note, once signed by the consignee, represents formal acceptance of the material in good order and condition and subsequent complaints cannot be accepted.

Maher CN 88057
W. MAHER & SONS LTD.
Rixton Old Hall, Manchester Road, Rixton, Warrington, WA3 6EW
T: 0161 776 2200 F: 0161 848 7357 E: enquiries@wmaherandsons.com

Bulk Excavation & Disposal • Ground Remediation
Quarried & Recycled Aggregates • Site Preparation

CONSIGNMENT NOTE

Customer: ROWLINSON Date: 12.11.18

Loaded at: MOSSIDE

Delivered to: TW

Driver: CHRIS Veh. Reg: FVC

Tick ☐ 1 x 8 wh. load: Off Site Material

Tick ☐ 1 x 8 wh. load: Delivered Material

Daywork / Hours Worked

Travel Time

Foreman or Agent's Signature

CONDITIONS OF SALE: It is essential that all written particulars entered above should be carefully checked by the consignee since this delivery note, once signed by the consignee, represents formal acceptance of the material in good order and condition and subsequent complaints cannot be accepted.

Maher CN 90212
W. MAHER & SONS LTD.
Rixton Old Hall, Manchester Road, Rixton, Warrington, WA3 6EW
T: 0161 776 2200 F: 0161 848 7357 E: enquiries@wmaherandsons.com

Bulk Excavation & Disposal • Ground Remediation
Quarried & Recycled Aggregates • Site Preparation

CONSIGNMENT NOTE

Customer: ROWLINSON Date: 12.11.18

Loaded at: MOSS SIDE

Delivered to: TWP

Driver: STU Veh. Reg: XDR

Tick ☒ 1 x 8 wh. load: Off Site Material

Tick ☐ 1 x 8 wh. load: Delivered Material

Daywork / Hours Worked

Travel Time

Foreman or Agent's Signature

CONDITIONS OF SALE: It is essential that all written particulars entered above should be carefully checked by the consignee since this delivery note, once signed by the consignee, represents formal acceptance of the material in good order and condition and subsequent complaints cannot be accepted.

Maher CN 94150
W. MAHER & SONS LTD.
Rixton Old Hall, Manchester Road, Rixton, Warrington, WA3 6EW
T: 0161 776 2200 F: 0161 848 7357 E: enquiries@wmaherandsons.com

Bulk Excavation & Disposal • Ground Remediation
Quarried & Recycled Aggregates • Site Preparation

CONSIGNMENT NOTE

Customer: ROWLINSON Date: 12.11.18

Loaded at: MOSS SIDE

Delivered to: TWP

Driver: MARIAL Veh. Reg: XDR

Tick ☒ 1 x 8 wh. load: Off Site Material

Tick ☐ 1 x 8 wh. load: Delivered Material

Daywork / Hours Worked

Travel Time

Foreman or Agent's Signature

CONDITIONS OF SALE: It is essential that all written particulars entered above should be carefully checked by the consignee since this delivery note, once signed by the consignee, represents formal acceptance of the material in good order and condition and subsequent complaints cannot be accepted.

Maher CN 86797

W. MAHER & SONS LTD.
Ryton Old Hall, Manchester Road, Rixton, Warrington, WA3 6EW
T: 0161 776 2200 F: 0161 848 7357 E: enquiries@wmaherandsons.com

Bulk Excavation & Disposal • Ground Remediation
Quarried & Recycled Aggregates • Site Preparation

CONSIGNMENT NOTE

Customer: ROWLINSON Date: 12-11-18
Loaded at: BOWEST MOSS SIDE
Delivered to: F-BANK (7)
Driver: MARLENA Veh. Reg: FVJ
Material: MUCK
1 x 8 wh. load: Off Site
1 x 8 wh. load: Delivered
Daywork / Hours Worked
Travel Time
Total Hours
Foreman or Agent's Signature
Signature

CONDITIONS OF SALE: It is essential that all written particulars entered above should be carefully checked by the consignee since this delivery note, once signed by the consignee, represents formal acceptance of the material in good order and condition and that the material is delivered in accordance with the order. All complaints must be made to the driver of the vehicle and be confirmed in writing direct to the company immediately. All materials and title to same remain the property of supplier until paid in full.

THIS IS NOT A WASTE TRANSFER NOTE Form MAHOD16 Rev 05 04/17

Maher CN 86795

W. MAHER & SONS LTD.
Ryton Old Hall, Manchester Road, Rixton, Warrington, WA3 6EW
T: 0161 776 2200 F: 0161 848 7357 E: enquiries@wmaherandsons.com

Bulk Excavation & Disposal • Ground Remediation
Quarried & Recycled Aggregates • Site Preparation

CONSIGNMENT NOTE

Customer: ROWLINSON Date: 12-11-18
Loaded at: BOWEST MOSS SIDE
Delivered to: T/W AC (5)
Driver: MARLENA Veh. Reg: FVJ
Material: MUCK
1 x 8 wh. load: Off Site
1 x 8 wh. load: Delivered
Daywork / Hours Worked
Travel Time
Total Hours
Foreman or Agent's Signature
Signature

CONDITIONS OF SALE: It is essential that all written particulars entered above should be carefully checked by the consignee since this delivery note, once signed by the consignee, represents formal acceptance of the material in good order and condition and that the material is delivered in accordance with the order. All complaints must be made to the driver of the vehicle and be confirmed in writing direct to the company immediately. All materials and title to same remain the property of supplier until paid in full.

THIS IS NOT A WASTE TRANSFER NOTE Form MAHOD16 Rev 05 04/17

Maher CN 86796

W. MAHER & SONS LTD.
Ryton Old Hall, Manchester Road, Rixton, Warrington, WA3 6EW
T: 0161 776 2200 F: 0161 848 7357 E: enquiries@wmaherandsons.com

Bulk Excavation & Disposal • Ground Remediation
Quarried & Recycled Aggregates • Site Preparation

CONSIGNMENT NOTE

Customer: ROWLINSON Date: 12-11-18
Loaded at: BOWEST MOSS SIDE
Delivered to: T/W AC (6)
Driver: MARLENA Veh. Reg: FVJ
Material: MUCK
1 x 8 wh. load: Off Site
1 x 8 wh. load: Delivered
Daywork / Hours Worked
Travel Time
Total Hours
Foreman or Agent's Signature
Signature

CONDITIONS OF SALE: It is essential that all written particulars entered above should be carefully checked by the consignee since this delivery note, once signed by the consignee, represents formal acceptance of the material in good order and condition and that the material is delivered in accordance with the order. All complaints must be made to the driver of the vehicle and be confirmed in writing direct to the company immediately. All materials and title to same remain the property of supplier until paid in full.

THIS IS NOT A WASTE TRANSFER NOTE Form MAHOD16 Rev 05 04/17

Maher CN 86794

W. MAHER & SONS LTD.
Ryton Old Hall, Manchester Road, Rixton, Warrington, WA3 6EW
T: 0161 776 2200 F: 0161 848 7357 E: enquiries@wmaherandsons.com

Bulk Excavation & Disposal • Ground Remediation
Quarried & Recycled Aggregates • Site Preparation

CONSIGNMENT NOTE

Customer: ROWLINSON Date: 12-11-18
Loaded at: BOWEST MOSS SIDE
Delivered to: T/W AC (4)
Driver: MARLENA Veh. Reg: FVJ
Material: MUCK
1 x 8 wh. load: Off Site
1 x 8 wh. load: Delivered
Daywork / Hours Worked
Travel Time
Total Hours
Foreman or Agent's Signature
Signature

CONDITIONS OF SALE: It is essential that all written particulars entered above should be carefully checked by the consignee since this delivery note, once signed by the consignee, represents formal acceptance of the material in good order and condition and that the material is delivered in accordance with the order. All complaints must be made to the driver of the vehicle and be confirmed in writing direct to the company immediately. All materials and title to same remain the property of supplier until paid in full.

THIS IS NOT A WASTE TRANSFER NOTE Form MAHOD16 Rev 05 04/17

Maher CN 66816

W. MAHER & SONS LTD.
Ryton Old Hall, Manchester Road, Rixton, Warrington, WA3 6EW
T: 0161 776 2200 F: 0161 848 7357 E: enquiries@wmaherandsons.com

Bulk Excavation & Disposal • Ground Remediation
Quarried & Recycled Aggregates • Site Preparation

CONSIGNMENT NOTE

Customer: ROWLINSON Date: 12/11/18
Loaded at: Moss Side
Delivered to: Tip
Driver: JOSH Veh. Reg: FVE
Material: MUCK
1 x 8 wh. load: Off Site
1 x 8 wh. load: Delivered
Daywork / Hours Worked
Travel Time
Total Hours
Foreman or Agent's Signature
Signature

CONDITIONS OF SALE: It is essential that all written particulars entered above should be carefully checked by the consignee since this delivery note, once signed by the consignee, represents formal acceptance of the material in good order and condition and that the material is delivered in accordance with the order. All complaints must be made to the driver of the vehicle and be confirmed in writing direct to the company immediately. All materials and title to same remain the property of supplier until paid in full.

WASTE TRANSFER NOTE Form MAHOD16 Rev 05 04/17

Maher CN 66815

W. MAHER & SONS LTD.
Ryton Old Hall, Manchester Road, Rixton, Warrington, WA3 6EW
T: 0161 776 2200 F: 0161 848 7357 E: enquiries@wmaherandsons.com

Bulk Excavation & Disposal • Ground Remediation
Quarried & Recycled Aggregates • Site Preparation

CONSIGNMENT NOTE

Customer: ROWLINSON Date: 12/11/18
Loaded at: Moss Side
Delivered to: Tip
Driver: JOSH Veh. Reg: FVE
Material: MUCK
1 x 8 wh. load: Off Site
1 x 8 wh. load: Delivered
Daywork / Hours Worked
Travel Time
Total Hours
Foreman or Agent's Signature
Signature

CONDITIONS OF SALE: It is essential that all written particulars entered above should be carefully checked by the consignee since this delivery note, once signed by the consignee, represents formal acceptance of the material in good order and condition and that the material is delivered in accordance with the order. All complaints must be made to the driver of the vehicle and be confirmed in writing direct to the company immediately. All materials and title to same remain the property of supplier until paid in full.

THIS IS NOT A WASTE TRANSFER NOTE Form MAHOD16 Rev 05 04/17

Maher CN 66813

W. MAHER & SONS LTD.
Ryton Old Hall, Manchester Road, Rixton, Warrington, WA3 6EW
T: 0161 776 2200 F: 0161 848 7357 E: enquiries@wmaherandsons.com

Bulk Excavation & Disposal • Ground Remediation
Quarried & Recycled Aggregates • Site Preparation

CONSIGNMENT NOTE

Customer: ROWLINSON Date: 12/11/18
Loaded at: Moss Side
Delivered to: Tip
Driver: JOSH Veh. Reg: FVE
Material: MUCK
1 x 8 wh. load: Off Site
1 x 8 wh. load: Delivered
Daywork / Hours Worked
Travel Time
Total Hours
Foreman or Agent's Signature
Signature

CONDITIONS OF SALE: It is essential that all written particulars entered above should be carefully checked by the consignee since this delivery note, once signed by the consignee, represents formal acceptance of the material in good order and condition and that the material is delivered in accordance with the order. All complaints must be made to the driver of the vehicle and be confirmed in writing direct to the company immediately. All materials and title to same remain the property of supplier until paid in full.

THIS IS NOT A WASTE TRANSFER NOTE Form MAHOD16 Rev 05 04/17

Maher CN 66814

W. MAHER & SONS LTD.
Ryton Old Hall, Manchester Road, Rixton, Warrington, WA3 6EW
T: 0161 776 2200 F: 0161 848 7357 E: enquiries@wmaherandsons.com

Bulk Excavation & Disposal • Ground Remediation
Quarried & Recycled Aggregates • Site Preparation

CONSIGNMENT NOTE

Customer: ROWLINSON Date: 12/11/18
Loaded at: Moss Side
Delivered to: Tip
Driver: JOSH Veh. Reg: FVE
Material: MUCK
1 x 8 wh. load: Off Site
1 x 8 wh. load: Delivered
Daywork / Hours Worked
Travel Time
Total Hours
Foreman or Agent's Signature
Signature

CONDITIONS OF SALE: It is essential that all written particulars entered above should be carefully checked by the consignee since this delivery note, once signed by the consignee, represents formal acceptance of the material in good order and condition and that the material is delivered in accordance with the order. All complaints must be made to the driver of the vehicle and be confirmed in writing direct to the company immediately. All materials and title to same remain the property of supplier until paid in full.

THIS IS NOT A WASTE TRANSFER NOTE Form MAHOD16 Rev 05 04/17

Maher		CN 86270	
W. MAHER & SONS LTD. Rixton Old Hall, Manchester Road, Rixton, Warrington, WA3 6EW T: 0161 776 2200 F: 0161 848 7357 E: enquiries@wmaherandsons.com			
Bulk Excavation & Disposal • Ground Remediation Quarried & Recycled Aggregates • Site Preparation			
CONSIGNMENT NOTE			
Customer: <u>Rowlinson</u>		Date: <u>9-11-18</u>	
Loaded at: <u>MOSS side</u>			
Delivered to: <u>TIP</u>			
Driver: <u>D Miller</u>		Veh. Reg.: <u>ZSG</u>	
☒ 1 x 8 wh. load: Off Site ☐ 1 x 8 wh. load: Delivered	Material: <u>MUH</u>		
Daywork / Sitework	Hours Worked	Travel Time	Total Hours
Foreman or Agent's Signature: <u>[Signature]</u>			
CONDITIONS OF SALE: It is essential that all written particulars entered above should be carefully checked by the consignee since this delivery note, once signed by the consignee, represents formal acceptance of the material in good order and condition and subsequent complaints cannot be accepted. All complaints whether in respect of material or circumstances of delivery must be made to the driver of the vehicle and be confirmed in writing direct to the company immediately. All materials and tids to same remain the property of supplier until paid in full.			
THIS IS NOT A WASTE TRANSFER NOTE		Form MAH/OD/16 Rev 05 04/17	

Maher		CN 86273	
W. MAHER & SONS LTD. Rixton Old Hall, Manchester Road, Rixton, Warrington, WA3 6EW T: 0161 776 2200 F: 0161 848 7357 E: enquiries@wmaherandsons.com			
Bulk Excavation & Disposal • Ground Remediation Quarried & Recycled Aggregates • Site Preparation			
CONSIGNMENT NOTE			
Customer: <u>Rowlinson</u>		Date: <u>9-11-18</u>	
Loaded at: <u>MOSS side</u>			
Delivered to: <u>TIP</u>			
Driver: <u>D Miller</u>		Veh. Reg.: <u>ZSG</u>	
☒ 1 x 8 wh. load: Off Site ☐ 1 x 8 wh. load: Delivered	Material: <u>MUH</u>		
Daywork / Sitework	Hours Worked	Travel Time	Total Hours
Foreman or Agent's Signature: <u>[Signature]</u>			
CONDITIONS OF SALE: It is essential that all written particulars entered above should be carefully checked by the consignee since this delivery note, once signed by the consignee, represents formal acceptance of the material in good order and condition and subsequent complaints cannot be accepted. All complaints whether in respect of material or circumstances of delivery must be made to the driver of the vehicle and be confirmed in writing direct to the company immediately. All materials and tids to same remain the property of supplier until paid in full.			
THIS IS NOT A WASTE TRANSFER NOTE		Form MAH/OD/16 Rev 05 04/17	

Maher		CN 86272	
W. MAHER & SONS LTD. Rixton Old Hall, Manchester Road, Rixton, Warrington, WA3 6EW T: 0161 776 2200 F: 0161 848 7357 E: enquiries@wmaherandsons.com			
Bulk Excavation & Disposal • Ground Remediation Quarried & Recycled Aggregates • Site Preparation			
CONSIGNMENT NOTE			
Customer: <u>Rowlinson</u>		Date: <u>9-11-18</u>	
Loaded at: <u>MOSS side</u>			
Delivered to: <u>TIP</u>			
Driver: <u>D Miller</u>		Veh. Reg.: <u>ZSG</u>	
☒ 1 x 8 wh. load: Off Site ☐ 1 x 8 wh. load: Delivered	Material: <u>MUH</u>		
Daywork / Sitework	Hours Worked	Travel Time	Total Hours
Foreman or Agent's Signature: <u>[Signature]</u>			
CONDITIONS OF SALE: It is essential that all written particulars entered above should be carefully checked by the consignee since this delivery note, once signed by the consignee, represents formal acceptance of the material in good order and condition and subsequent complaints cannot be accepted. All complaints whether in respect of material or circumstances of delivery must be made to the driver of the vehicle and be confirmed in writing direct to the company immediately. All materials and tids to same remain the property of supplier until paid in full.			
THIS IS NOT A WASTE TRANSFER NOTE		Form MAH/OD/16 Rev 05 04/17	

Maher		CN 86269	
W. MAHER & SONS LTD. Rixton Old Hall, Manchester Road, Rixton, Warrington, WA3 6EW T: 0161 776 2200 F: 0161 848 7357 E: enquiries@wmaherandsons.com			
Bulk Excavation & Disposal • Ground Remediation Quarried & Recycled Aggregates • Site Preparation			
CONSIGNMENT NOTE			
Customer: <u>Rowlinson</u>		Date: <u>9-11-18</u>	
Loaded at: <u>MOSS side</u>			
Delivered to: <u>TIP</u>			
Driver: <u>D Miller</u>		Veh. Reg.: <u>ZSG</u>	
☒ 1 x 8 wh. load: Off Site ☐ 1 x 8 wh. load: Delivered	Material: <u>MUH</u>		
Daywork / Sitework	Hours Worked	Travel Time	Total Hours
Foreman or Agent's Signature: <u>[Signature]</u>			
CONDITIONS OF SALE: It is essential that all written particulars entered above should be carefully checked by the consignee since this delivery note, once signed by the consignee, represents formal acceptance of the material in good order and condition and subsequent complaints cannot be accepted. All complaints whether in respect of material or circumstances of delivery must be made to the driver of the vehicle and be confirmed in writing direct to the company immediately. All materials and tids to same remain the property of supplier until paid in full.			
THIS IS NOT A WASTE TRANSFER NOTE		Form MAH/OD/16 Rev 05 04/17	

Maher		CN 86271	
W. MAHER & SONS LTD. Rixton Old Hall, Manchester Road, Rixton, Warrington, WA3 6EW T: 0161 776 2200 F: 0161 848 7357 E: enquiries@wmaherandsons.com			
Bulk Excavation & Disposal • Ground Remediation Quarried & Recycled Aggregates • Site Preparation			
CONSIGNMENT NOTE			
Customer: <u>Rowlinson</u>		Date: <u>9-11-18</u>	
Loaded at: <u>MOSS side</u>			
Delivered to: <u>TIP</u>			
Driver: <u>D Miller</u>		Veh. Reg.: <u>ZSG</u>	
☒ 1 x 8 wh. load: Off Site ☐ 1 x 8 wh. load: Delivered	Material: <u>MUH</u>		
Daywork / Sitework	Hours Worked	Travel Time	Total Hours
Foreman or Agent's Signature: <u>[Signature]</u>			
CONDITIONS OF SALE: It is essential that all written particulars entered above should be carefully checked by the consignee since this delivery note, once signed by the consignee, represents formal acceptance of the material in good order and condition and subsequent complaints cannot be accepted. All complaints whether in respect of material or circumstances of delivery must be made to the driver of the vehicle and be confirmed in writing direct to the company immediately. All materials and tids to same remain the property of supplier until paid in full.			
THIS IS NOT A WASTE TRANSFER NOTE		Form MAH/OD/16 Rev 05 04/17	

44-5 LOADS
@ 83 = 3563

9/11/18

Maher	CN 94141		
W. MAHER & SONS LTD. Rixton Old Hall, Manchester Road, Rixton, Warrington, WAG 9EW T: 0161 778 2200 F: 0161 848 7357 E: enquiries@wmaherandsons.com			
Bulk Excavation & Disposal • Ground Remediation Quarried & Recycled Aggregates • Site Preparation			
CONSIGNMENT NOTE			
Customer: <u>ROCKINSON</u>	Date: <u>9.11.18</u>		
Loaded at: <u>HOSS SIDE</u>			
Delivered to: <u>TIP</u>			
Driver: <u>HARIAL</u>	Veh. Reg: <u>XDU</u>		
Tick ☒ 1 x 8 wh. load: Off Site	Material <u>MUCK</u>		
Tick ☐ 1 x 8 wh. load: Delivered	Material		
Daywork / Stowwork	Hours Worked	Travel Time	Total Hours
Foreman or Agent's Signature <u>[Signature]</u>			
CONDITIONS OF SALE: It is essential that all written particulars entered above should be carefully checked by the consignee since this delivery note, once signed by the driver, represents formal acceptance of the material in good order and condition and subsequent complaints cannot be accepted. All complaints whether in respect of material or circumstances of delivery must be made to the driver of the vehicle and be confirmed in writing direct to the company immediately. All materials and title to same remain the property of supplier until paid in full. THIS IS NOT A WASTE TRANSFER NOTE Form MAH0016 Rev 05 04/17			

Maher	CN 94143		
W. MAHER & SONS LTD. Rixton Old Hall, Manchester Road, Rixton, Warrington, WAG 9EW T: 0161 778 2200 F: 0161 848 7357 E: enquiries@wmaherandsons.com			
Bulk Excavation & Disposal • Ground Remediation Quarried & Recycled Aggregates • Site Preparation			
CONSIGNMENT NOTE			
Customer: <u>ROCKINSON</u>	Date: <u>9.11.18</u>		
Loaded at: <u>HOSS SIDE</u>			
Delivered to: <u>TIP</u>			
Driver: <u>HARIAL</u>	Veh. Reg: <u>XDU</u>		
Tick ☒ 1 x 8 wh. load: Off Site	Material <u>MUCK</u>		
Tick ☐ 1 x 8 wh. load: Delivered	Material		
Daywork / Stowwork	Hours Worked	Travel Time	Total Hours
Foreman or Agent's Signature <u>[Signature]</u>			
CONDITIONS OF SALE: It is essential that all written particulars entered above should be carefully checked by the consignee since this delivery note, once signed by the driver, represents formal acceptance of the material in good order and condition and subsequent complaints cannot be accepted. All complaints whether in respect of material or circumstances of delivery must be made to the driver of the vehicle and be confirmed in writing direct to the company immediately. All materials and title to same remain the property of supplier until paid in full. THIS IS NOT A WASTE TRANSFER NOTE Form MAH0016 Rev 05 04/17			

Maher	CN 70500		
W. MAHER & SONS LTD. Rixton Old Hall, Manchester Road, Rixton, Warrington, WAG 9EW T: 0161 778 2200 F: 0161 848 7357 E: enquiries@wmaherandsons.com			
Bulk Excavation & Disposal • Ground Remediation Quarried & Recycled Aggregates • Site Preparation			
CONSIGNMENT NOTE			
Customer: <u>ROCKINSON</u>	Date: <u>9/11/18</u>		
Loaded at: <u>M/SIDE</u>			
Delivered to: <u>TW</u>			
Driver: <u>iony</u>	Veh. Reg: <u>ZSU</u>		
Tick ☒ 1 x 8 wh. load: Off Site	Material <u>MUCK</u>		
Tick ☐ 1 x 8 wh. load: Delivered	Material		
Daywork / Stowwork	Hours Worked	Travel Time	Total Hours
Foreman or Agent's Signature <u>[Signature]</u>			
CONDITIONS OF SALE: It is essential that all written particulars entered above should be carefully checked by the consignee since this delivery note, once signed by the driver, represents formal acceptance of the material in good order and condition and subsequent complaints cannot be accepted. All complaints whether in respect of material or circumstances of delivery must be made to the driver of the vehicle and be confirmed in writing direct to the company immediately. All materials and title to same remain the property of supplier until paid in full. THIS IS NOT A WASTE TRANSFER NOTE Form MAH0016 Rev 05 04/17			

Maher	CN 70499		
W. MAHER & SONS LTD. Rixton Old Hall, Manchester Road, Rixton, Warrington, WAG 9EW T: 0161 778 2200 F: 0161 848 7357 E: enquiries@wmaherandsons.com			
Bulk Excavation & Disposal • Ground Remediation Quarried & Recycled Aggregates • Site Preparation			
CONSIGNMENT NOTE			
Customer: <u>ROCKINSON</u>	Date: <u>9/11/18</u>		
Loaded at: <u>M/SIDE</u>			
Delivered to: <u>TW</u>			
Driver: <u>iony</u>	Veh. Reg: <u>ZSU</u>		
Tick ☒ 1 x 8 wh. load: Off Site	Material <u>MUCK</u>		
Tick ☐ 1 x 8 wh. load: Delivered	Material		
Daywork / Stowwork	Hours Worked	Travel Time	Total Hours
Foreman or Agent's Signature <u>[Signature]</u>			
CONDITIONS OF SALE: It is essential that all written particulars entered above should be carefully checked by the consignee since this delivery note, once signed by the driver, represents formal acceptance of the material in good order and condition and subsequent complaints cannot be accepted. All complaints whether in respect of material or circumstances of delivery must be made to the driver of the vehicle and be confirmed in writing direct to the company immediately. All materials and title to same remain the property of supplier until paid in full. THIS IS NOT A WASTE TRANSFER NOTE Form MAH0016 Rev 05 04/17			

Maher	CN 94144		
W. MAHER & SONS LTD. Rixton Old Hall, Manchester Road, Rixton, Warrington, WAG 9EW T: 0161 778 2200 F: 0161 848 7357 E: enquiries@wmaherandsons.com			
Bulk Excavation & Disposal • Ground Remediation Quarried & Recycled Aggregates • Site Preparation			
CONSIGNMENT NOTE			
Customer: <u>ROCKINSON</u>	Date: <u>9.11.18</u>		
Loaded at: <u>HOSS SIDE</u>			
Delivered to: <u>TIP</u>			
Driver: <u>HARIAL</u>	Veh. Reg: <u>XDU</u>		
Tick ☒ 1 x 8 wh. load: Off Site	Material <u>MUCK</u>		
Tick ☐ 1 x 8 wh. load: Delivered	Material		
Daywork / Stowwork	Hours Worked	Travel Time	Total Hours
Foreman or Agent's Signature <u>[Signature]</u>			
CONDITIONS OF SALE: It is essential that all written particulars entered above should be carefully checked by the consignee since this delivery note, once signed by the driver, represents formal acceptance of the material in good order and condition and subsequent complaints cannot be accepted. All complaints whether in respect of material or circumstances of delivery must be made to the driver of the vehicle and be confirmed in writing direct to the company immediately. All materials and title to same remain the property of supplier until paid in full. THIS IS NOT A WASTE TRANSFER NOTE Form MAH0016 Rev 05 04/17			

Maher	CN 94145		
W. MAHER & SONS LTD. Rixton Old Hall, Manchester Road, Rixton, Warrington, WAG 9EW T: 0161 778 2200 F: 0161 848 7357 E: enquiries@wmaherandsons.com			
Bulk Excavation & Disposal • Ground Remediation Quarried & Recycled Aggregates • Site Preparation			
CONSIGNMENT NOTE			
Customer: <u>ROCKINSON</u>	Date: <u>9.11.18</u>		
Loaded at: <u>HOSS SIDE</u>			
Delivered to: <u>TIP</u>			
Driver: <u>HARIAL</u>	Veh. Reg: <u>XDU</u>		
Tick ☒ 1 x 8 wh. load: Off Site	Material <u>MUCK</u>		
Tick ☐ 1 x 8 wh. load: Delivered	Material		
Daywork / Stowwork	Hours Worked	Travel Time	Total Hours
Foreman or Agent's Signature <u>[Signature]</u>			
CONDITIONS OF SALE: It is essential that all written particulars entered above should be carefully checked by the consignee since this delivery note, once signed by the driver, represents formal acceptance of the material in good order and condition and subsequent complaints cannot be accepted. All complaints whether in respect of material or circumstances of delivery must be made to the driver of the vehicle and be confirmed in writing direct to the company immediately. All materials and title to same remain the property of supplier until paid in full. THIS IS NOT A WASTE TRANSFER NOTE Form MAH0016 Rev 05 04/17			

Maher	CN 92332
W. MAHER & SONS LTD. Ryton Old Hall, Manchester Road, Rixton, Warrington, WAG 9EW T: 0161 778 2200 F: 0161 848 7357 E: enquiries@wmharrisons.com	
Bulk Excavation & Disposal • Ground Remediation Quarried & Recycled Aggregates • Site Preparation	
CONSIGNMENT NOTE	
Customer: <u>Rallison</u>	Date: <u>9-11-18</u>
Loaded at: <u>MOSSIDE</u>	
Delivered to: <u>TIP</u>	
Driver: <u>Steward</u>	Veh. Reg: <u>MF81NP</u>
Tick ☒ 1 x 8 wh. load: Off Site	Material: <u>Muck</u>
Tick ☐ 1 x 8 wh. load: Delivered	Material:
Daywork / Hours Worked	Travel Time
Foreman or Agent's Signature	Total Hours
CONDITIONS OF SALE: It is essential that all written particulars entered above should be carefully checked by the consignee since this delivery note, once signed by the consignee, represents formal acceptance of the material in good order and condition and subsequent complaints cannot be accepted. All complaints whether in respect of material or circumstances of delivery must be made to the driver of the vehicle and be confirmed in writing direct to the company immediately. All materials and title to same remain the property of supplier until paid in full.	
THIS IS NOT A WASTE TRANSFER NOTE Form MAH00716 Rev 03 04/17	

Maher	CN 92331
W. MAHER & SONS LTD. Ryton Old Hall, Manchester Road, Rixton, Warrington, WAG 9EW T: 0161 778 2200 F: 0161 848 7357 E: enquiries@wmharrisons.com	
Bulk Excavation & Disposal • Ground Remediation Quarried & Recycled Aggregates • Site Preparation	
CONSIGNMENT NOTE	
Customer: <u>Rallison</u>	Date: <u>9-11-18</u>
Loaded at: <u>MOSSIDE</u>	
Delivered to: <u>TIP</u>	
Driver: <u>Steward</u>	Veh. Reg: <u>MF81NP</u>
Tick ☒ 1 x 8 wh. load: Off Site	Material: <u>Muck</u>
Tick ☐ 1 x 8 wh. load: Delivered	Material:
Daywork / Hours Worked	Travel Time
Foreman or Agent's Signature	Total Hours
CONDITIONS OF SALE: It is essential that all written particulars entered above should be carefully checked by the consignee since this delivery note, once signed by the consignee, represents formal acceptance of the material in good order and condition and subsequent complaints cannot be accepted. All complaints whether in respect of material or circumstances of delivery must be made to the driver of the vehicle and be confirmed in writing direct to the company immediately. All materials and title to same remain the property of supplier until paid in full.	
THIS IS NOT A WASTE TRANSFER NOTE Form MAH00716 Rev 03 04/17	

Maher	CN 92334
W. MAHER & SONS LTD. Ryton Old Hall, Manchester Road, Rixton, Warrington, WAG 9EW T: 0161 778 2200 F: 0161 848 7357 E: enquiries@wmharrisons.com	
Bulk Excavation & Disposal • Ground Remediation Quarried & Recycled Aggregates • Site Preparation	
CONSIGNMENT NOTE	
Customer: <u>Rallison</u>	Date: <u>9-11-18</u>
Loaded at: <u>MOSSIDE</u>	
Delivered to: <u>TIP</u>	
Driver: <u>Steward</u>	Veh. Reg: <u>MF81NP</u>
Tick ☒ 1 x 8 wh. load: Off Site	Material: <u>Muck</u>
Tick ☐ 1 x 8 wh. load: Delivered	Material:
Daywork / Hours Worked	Travel Time
Foreman or Agent's Signature	Total Hours
CONDITIONS OF SALE: It is essential that all written particulars entered above should be carefully checked by the consignee since this delivery note, once signed by the consignee, represents formal acceptance of the material in good order and condition and subsequent complaints cannot be accepted. All complaints whether in respect of material or circumstances of delivery must be made to the driver of the vehicle and be confirmed in writing direct to the company immediately. All materials and title to same remain the property of supplier until paid in full.	
THIS IS NOT A WASTE TRANSFER NOTE Form MAH00716 Rev 03 04/17	

Maher	CN 92333
W. MAHER & SONS LTD. Ryton Old Hall, Manchester Road, Rixton, Warrington, WAG 9EW T: 0161 778 2200 F: 0161 848 7357 E: enquiries@wmharrisons.com	
Bulk Excavation & Disposal • Ground Remediation Quarried & Recycled Aggregates • Site Preparation	
CONSIGNMENT NOTE	
Customer: <u>Rallison</u>	Date: <u>9-11-18</u>
Loaded at: <u>MOSSIDE</u>	
Delivered to: <u>TIP</u>	
Driver: <u>Steward</u>	Veh. Reg: <u>MF81NP</u>
Tick ☒ 1 x 8 wh. load: Off Site	Material: <u>Muck</u>
Tick ☐ 1 x 8 wh. load: Delivered	Material:
Daywork / Hours Worked	Travel Time
Foreman or Agent's Signature	Total Hours
CONDITIONS OF SALE: It is essential that all written particulars entered above should be carefully checked by the consignee since this delivery note, once signed by the consignee, represents formal acceptance of the material in good order and condition and subsequent complaints cannot be accepted. All complaints whether in respect of material or circumstances of delivery must be made to the driver of the vehicle and be confirmed in writing direct to the company immediately. All materials and title to same remain the property of supplier until paid in full.	
THIS IS NOT A WASTE TRANSFER NOTE Form MAH00716 Rev 03 04/17	

Maher	CN 59949
W. MAHER & SONS LTD. Ryton Old Hall, Manchester Road, Rixton, Warrington, WAG 9EW T: 0161 778 2200 F: 0161 848 7357 E: enquiries@wmharrisons.com	
Bulk Excavation & Disposal • Ground Remediation Quarried & Recycled Aggregates • Site Preparation	
CONSIGNMENT NOTE	
Customer: <u>Rallison</u>	Date: <u>9-11-18</u>
Loaded at: <u>MOSSIDE</u>	
Delivered to: <u>TIP</u>	
Driver: <u>Steward</u>	Veh. Reg: <u>MF81NP</u>
Tick ☒ 1 x 8 wh. load: Off Site	Material: <u>Muck</u>
Tick ☐ 1 x 8 wh. load: Delivered	Material:
Daywork / Hours Worked	Travel Time
Foreman or Agent's Signature	Total Hours
CONDITIONS OF SALE: It is essential that all written particulars entered above should be carefully checked by the consignee since this delivery note, once signed by the consignee, represents formal acceptance of the material in good order and condition and subsequent complaints cannot be accepted. All complaints whether in respect of material or circumstances of delivery must be made to the driver of the vehicle and be confirmed in writing direct to the company immediately. All materials and title to same remain the property of supplier until paid in full.	
THIS IS NOT A WASTE TRANSFER NOTE Form MAH00716 Rev 03 04/17	

Maher	CN 59950
W. MAHER & SONS LTD. Ryton Old Hall, Manchester Road, Rixton, Warrington, WAG 9EW T: 0161 778 2200 F: 0161 848 7357 E: enquiries@wmharrisons.com	
Bulk Excavation & Disposal • Ground Remediation Quarried & Recycled Aggregates • Site Preparation	
CONSIGNMENT NOTE	
Customer: <u>Rallison</u>	Date: <u>9-11-18</u>
Loaded at: <u>MOSSIDE</u>	
Delivered to: <u>TIP</u>	
Driver: <u>Steward</u>	Veh. Reg: <u>MF81NP</u>
Tick ☒ 1 x 8 wh. load: Off Site	Material: <u>Muck</u>
Tick ☐ 1 x 8 wh. load: Delivered	Material:
Daywork / Hours Worked	Travel Time
Foreman or Agent's Signature	Total Hours
CONDITIONS OF SALE: It is essential that all written particulars entered above should be carefully checked by the consignee since this delivery note, once signed by the consignee, represents formal acceptance of the material in good order and condition and subsequent complaints cannot be accepted. All complaints whether in respect of material or circumstances of delivery must be made to the driver of the vehicle and be confirmed in writing direct to the company immediately. All materials and title to same remain the property of supplier until paid in full.	
THIS IS NOT A WASTE TRANSFER NOTE Form MAH00716 Rev 03 04/17	

Maher	CN 92330
W. MAHER & SONS LTD. Ryton Old Hall, Manchester Road, Rixton, Warrington, WAG 9EW T: 0161 778 2200 F: 0161 848 7357 E: enquiries@wmharrisons.com	
Bulk Excavation & Disposal • Ground Remediation Quarried & Recycled Aggregates • Site Preparation	
CONSIGNMENT NOTE	
Customer: <u>Rallison</u>	Date: <u>9-11-18</u>
Loaded at: <u>MOSSIDE</u>	
Delivered to: <u>TIP</u>	
Driver: <u>Steward</u>	Veh. Reg: <u>MF81NP</u>
Tick ☒ 1 x 8 wh. load: Off Site	Material: <u>Muck</u>
Tick ☐ 1 x 8 wh. load: Delivered	Material:
Daywork / Hours Worked	Travel Time
Foreman or Agent's Signature	Total Hours
CONDITIONS OF SALE: It is essential that all written particulars entered above should be carefully checked by the consignee since this delivery note, once signed by the consignee, represents formal acceptance of the material in good order and condition and subsequent complaints cannot be accepted. All complaints whether in respect of material or circumstances of delivery must be made to the driver of the vehicle and be confirmed in writing direct to the company immediately. All materials and title to same remain the property of supplier until paid in full.	
THIS IS NOT A WASTE TRANSFER NOTE Form MAH00716 Rev 03 04/17	

Maher		CN 92603	
W. MAHER & SONS LTD. Ryton Old Hall, Manchester Road, Ryton, Warrington, WA3 6BW Tel: 0161 778 2200 F: 0161 848 7357 E: enquiries@wmaherandsons.com			
Bulk Excavation & Disposal • Ground Remediation Quarried & Recycled Aggregates • Site Preparation			
CONSIGNMENT NOTE			
Customer:	Brownson	Date:	9/11/18
Loaded at:	Myside		
Delivered to:	TW		
Driver:	Tony		
☒ 1 x 8 wh. load; Off Site ☐ Tick	Veh. Reg: ZSU Material: MUCK		
☐ 1 x 8 wh. load; Delivered ☐ Tick	Material Material		
Daywork / Sitework	Hours Worked	Travel Time	Total Hours
			12.41
Foreman or Agent's			
SIGNATURES CONDITIONS OF SALE: It is essential that all written authorities needed above should be consequently executed by the consignee since this delivery note, once signed by the consignee, represents formal acceptance of the material in good order and condition and subsequent complaints cannot be accepted. The driver of the vehicle and be confirmed in writing direct to the consignee. All materials and title to same remain the property of supplier until paid in full.			
THIS IS NOT A WASTE TRANSFER NOTE			
Form MAH001015 Rev 06, 04/17			

		CN 91645	
W. MAHER & SONS LTD. 18, Maher Old Hall, Manchester Road, Ripon, Warrington, W5 6EW T: 0161 778 2200 F: 0161 848 7357 E: enquiries@wmaherandsons.com			
Bulk Excavation & Disposal • Ground Remediation Quarried & Recycled Aggregates • Site Preparation			
CONSIGNMENT NOTE			
Customer:	WILKINSON	09.11.18	
Loaded at:	MORG S106		
Delivered to:	ITP		
Driver:	Ken	Notes B&T	
Tick ☒ 1 x 8 wh. load; Off Site		Material: MUCK	
Tick ☐ 1 x 8 wh. load; Delivered		Material:	
Daywork / Shework	Hours Worked	Travel Time	Total Hours
Foreman or Agent's		Signature	
		12/11/18	

CONDITIONS OF SALE: It is essential that all vehicles, lorries, trailers, etc. should be carefully checked by the consignee since this delivery note, once signed by the consignee, represents formal acceptance of the material in good order and condition and subsequent complaints cannot be accepted.

All consignments whether in respect of material or circumstances of delivery must be made to the driver, who will sign the delivery note.

All materials and fill to be same, retain the property of supplier until paid in full.

MAHER CN 87741
W. MAHER & SONS LTD.
Rixton Old Hall, Manchester Road, Rixton, Warrington, WA3 9EW
T: 0161 776 2200 F: 0161 848 7357 E: enquiries@wmaherandsons.com

Bulk Excavation & Disposal • Ground Remediation
Quarried & Recycled Aggregates • Site Preparation

CONSIGNMENT NOTE

Customer: Rowlison Date: 11.11.18
Loaded at: Moss Side
Delivered to: Twall
Driver: Muck Veh. Reg: W08X09
Material: Muck
Tick ☒ 1 x 8 wh. load: Off Site
Material: Muck
Tick ☐ 1 x 8 wh. load: Delivered
Daywork / Hours Worked
Slitwork
Foreman or Agent's Signature
Conditions of Sale: It is essential that all written particulars entered above should be carefully checked by the consignee since the delivery note, once signed by the consignee, represents formal acceptance of the material in good order and condition and subsequent complaints cannot be accepted.
All complaints whether in respect of material or circumstances of delivery must be made to the driver of the vehicle and be confirmed in writing direct to the company immediately.
All materials and title to same remain the property of supplier until paid in full.
THIS IS NOT A WASTE TRANSFER NOTE Form MAH0016 Rev 05 04/17

MAHER CN 86788
W. MAHER & SONS LTD.
Rixton Old Hall, Manchester Road, Rixton, Warrington, WA3 9EW
T: 0161 776 2200 F: 0161 848 7357 E: enquiries@wmaherandsons.com

Bulk Excavation & Disposal • Ground Remediation
Quarried & Recycled Aggregates • Site Preparation

CONSIGNMENT NOTE

Customer: Rowlison Date: 8.11.18
Loaded at: POWES ST - 1
Delivered to: Twall
Driver: MARTIN A Veh. Reg: FV0
Material: Muck
Tick ☐ 1 x 8 wh. load: Off Site
Material: Up to 1000
Tick ☐ 1 x 8 wh. load: Delivered
Daywork / Hours Worked
Slitwork
Foreman or Agent's Signature
Conditions of Sale: It is essential that all written particulars entered above should be carefully checked by the consignee since the delivery note, once signed by the consignee, represents formal acceptance of the material in good order and condition and subsequent complaints cannot be accepted.
All complaints whether in respect of material or circumstances of delivery must be made to the driver of the vehicle and be confirmed in writing direct to the company immediately.
All materials and title to same remain the property of supplier until paid in full.
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MAHER CN 66808
W. MAHER & SONS LTD.
Rixton Old Hall, Manchester Road, Rixton, Warrington, WA3 9EW
T: 0161 776 2200 F: 0161 848 7357 E: enquiries@wmaherandsons.com

Bulk Excavation & Disposal • Ground Remediation
Quarried & Recycled Aggregates • Site Preparation

CONSIGNMENT NOTE

Customer: Rowlison Date: 9.11.18
Loaded at: 14.0.18
Delivered to: MOSSIDE
Driver: H Veh. Reg: FVE
Material: CLC
Tick ☐ 1 x 8 wh. load: Off Site
Material: CLC
Tick ☐ 1 x 8 wh. load: Delivered
Daywork / Hours Worked
Slitwork
Foreman or Agent's Signature
Conditions of Sale: It is essential that all written particulars entered above should be carefully checked by the consignee since the delivery note, once signed by the consignee, represents formal acceptance of the material in good order and condition and subsequent complaints cannot be accepted.
All complaints whether in respect of material or circumstances of delivery must be made to the driver of the vehicle and be confirmed in writing direct to the company immediately.
All materials and title to same remain the property of supplier until paid in full.
THIS IS NOT A WASTE TRANSFER NOTE Form MAH0016 Rev 05 04/17

MAHER CN 76860
W. MAHER & SONS LTD.
Rixton Old Hall, Manchester Road, Rixton, Warrington, WA3 9EW
T: 0161 776 2200 F: 0161 848 7357 E: enquiries@wmaherandsons.com

Bulk Excavation & Disposal • Ground Remediation
Quarried & Recycled Aggregates • Site Preparation

CONSIGNMENT NOTE

Customer: Rowlison Date: 9.11.18
Loaded at: POWES ST
Delivered to: MOSS SIDE
Driver: Rowlison Veh. Reg: X05
Material: Muck
Tick ☒ 1 x 8 wh. load: Off Site
Material: Muck
Tick ☐ 1 x 8 wh. load: Delivered
Daywork / Hours Worked
Slitwork
Foreman or Agent's Signature
Conditions of Sale: It is essential that all written particulars entered above should be carefully checked by the consignee since the delivery note, once signed by the consignee, represents formal acceptance of the material in good order and condition and subsequent complaints cannot be accepted.
All complaints whether in respect of material or circumstances of delivery must be made to the driver of the vehicle and be confirmed in writing direct to the company immediately.
All materials and title to same remain the property of supplier until paid in full.
THIS IS NOT A WASTE TRANSFER NOTE Form MAH0016 Rev 05 04/17

MAHER CN 93516
W. MAHER & SONS LTD.
Rixton Old Hall, Manchester Road, Rixton, Warrington, WA3 9EW
T: 0161 776 2200 F: 0161 848 7357 E: enquiries@wmaherandsons.com

Bulk Excavation & Disposal • Ground Remediation
Quarried & Recycled Aggregates • Site Preparation

CONSIGNMENT NOTE

Customer: Rowlison Date: 9/11/18
Loaded at: Parkway
Delivered to: T.P
Driver: Josh Veh. Reg: X05
Material: Muck
Tick ☒ 1 x 8 wh. load: Off Site
Material: Muck
Tick ☐ 1 x 8 wh. load: Delivered
Daywork / Hours Worked
Slitwork
Foreman or Agent's Signature
Conditions of Sale: It is essential that all written particulars entered above should be carefully checked by the consignee since the delivery note, once signed by the consignee, represents formal acceptance of the material in good order and condition and subsequent complaints cannot be accepted.
All complaints whether in respect of material or circumstances of delivery must be made to the driver of the vehicle and be confirmed in writing direct to the company immediately.
All materials and title to same remain the property of supplier until paid in full.
THIS IS NOT A WASTE TRANSFER NOTE Form MAH0016 Rev 05 04/17

MAHER CN 90207
W. MAHER & SONS LTD.
Rixton Old Hall, Manchester Road, Rixton, Warrington, WA3 9EW
T: 0161 776 2200 F: 0161 848 7357 E: enquiries@wmaherandsons.com

Bulk Excavation & Disposal • Ground Remediation
Quarried & Recycled Aggregates • Site Preparation

CONSIGNMENT NOTE

Customer: Rowlison Date: 9.11.18
Loaded at: MOSS SIDE
Delivered to: T.P
Driver: STU Veh. Reg: X00
Material: Muck
Tick ☒ 1 x 8 wh. load: Off Site
Material: Muck
Tick ☐ 1 x 8 wh. load: Delivered
Daywork / Hours Worked
Slitwork
Foreman or Agent's Signature
Conditions of Sale: It is essential that all written particulars entered above should be carefully checked by the consignee since the delivery note, once signed by the consignee, represents formal acceptance of the material in good order and condition and subsequent complaints cannot be accepted.
All complaints whether in respect of material or circumstances of delivery must be made to the driver of the vehicle and be confirmed in writing direct to the company immediately.
All materials and title to same remain the property of supplier until paid in full.
THIS IS NOT A WASTE TRANSFER NOTE Form MAH0016 Rev 05 04/17

MAHER CN 88053
W. MAHER & SONS LTD.
Rixton Old Hall, Manchester Road, Rixton, Warrington, WA3 9EW
T: 0161 776 2200 F: 0161 848 7357 E: enquiries@wmaherandsons.com

Bulk Excavation & Disposal • Ground Remediation
Quarried & Recycled Aggregates • Site Preparation

CONSIGNMENT NOTE

Customer: Rowlison Date: 9.11.18
Loaded at: POWES ST MOSSIDE
Delivered to: TW
Driver: CHRIS Veh. Reg: FVC
Material: Muck
Tick ☐ 1 x 8 wh. load: Off Site
Material: 14.60.18
Tick ☐ 1 x 8 wh. load: Delivered
Daywork / Hours Worked
Slitwork
Foreman or Agent's Signature
Conditions of Sale: It is essential that all written particulars entered above should be carefully checked by the consignee since the delivery note, once signed by the consignee, represents formal acceptance of the material in good order and condition and subsequent complaints cannot be accepted.
All complaints whether in respect of material or circumstances of delivery must be made to the driver of the vehicle and be confirmed in writing direct to the company immediately.
All materials and title to same remain the property of supplier until paid in full.
THIS IS NOT A WASTE TRANSFER NOTE Form MAH0016 Rev 05 04/17

MAHER CN 93196
W. MAHER & SONS LTD.
Rixton Old Hall, Manchester Road, Rixton, Warrington, WA3 9EW
T: 0161 776 2200 F: 0161 848 7357 E: enquiries@wmaherandsons.com

Bulk Excavation & Disposal • Ground Remediation
Quarried & Recycled Aggregates • Site Preparation

CONSIGNMENT NOTE

Customer: Rowlison Date: 09/11/18
Loaded at: POWES ST
Delivered to: T.P
Driver: Rowlison Veh. Reg: X05
Material: Muck
Tick ☒ 1 x 8 wh. load: Off Site
Material: Muck
Tick ☐ 1 x 8 wh. load: Delivered
Daywork / Hours Worked
Slitwork
Foreman or Agent's Signature
Conditions of Sale: It is essential that all written particulars entered above should be carefully checked by the consignee since the delivery note, once signed by the consignee, represents formal acceptance of the material in good order and condition and subsequent complaints cannot be accepted.
All complaints whether in respect of material or circumstances of delivery must be made to the driver of the vehicle and be confirmed in writing direct to the company immediately.
All materials and title to same remain the property of supplier until paid in full.
THIS IS NOT A WASTE TRANSFER NOTE Form MAH0016 Rev 05 04/17

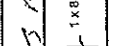
		CN 90003	
W. MAHER & SONS LTD. Riven Oak Hill, Marston Road, Evesham, Warrington, W3 9EW T: 0161 770 2200 F: 0161 848 7357 E: enquiries@wmaherandsons.com			
Bulk Excavation & Disposal - Ground Remediation Quarried & Recycled Aggregates - Site Preparation			
CONSIGNMENT NOTE			
Customer:	Rushion		Date: 9.11.18
Loaded at:	Moss side		
Loaded to:	T. Wall		
By:	Dave S	Veh. Reg.:	ZSO
	1 x 8 wh. load: Off Site	Material:	nu ck
	1 x 8 wh. load: Delivered	Material:	
ck /	Hours	Days	Total
			Hours
gent's 			
CONDITIONS OF SALE: It is essential that all consignments entered above should be instantly provided for the full and final acceptance of the material in good order and condition and any complaint must be made immediately on receipt of the material. If no complaint is made immediately on receipt of the material, the consignee shall be deemed to have accepted the consignment and no further complaint can be made. The consignee shall be responsible for the driver of the vehicle and any damage to the vehicle or any other property of the consignee. All materials and items shall remain the property of supplier until paid in full.			
THIS IS NOT A WASTE TRANSFER NOTE			Form MAHQD10 Rev 1

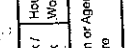
 CN 90002		W. MAHER & SONS LTD. Ryeon Old Hall, Manchester Road, Ryeon, Warrington, WA3 9EW T: 0161 778 2200 F: 0161 848 7337 E: enquiry@maherandsons.com	
Bulk Excavation & Disposal • Ground Remediation Quarried & Recycled Aggregates • Site Preparation			
CONSIGNMENT NOTE			
Customer:	<i>Red Lion</i>	Date:	<i>9.11.18</i>
Loaded at:	<i>mess side</i>		
Delivered to:	<i>thwall</i>		
Driver:	<i>Dave S</i>		
Van Reg.:	<i>zso</i>		
Tick ☒ 1 x 8 wh. load; Off Site	Material		
Tick ☐ 1 x 8 wh. load; Delivered	Material		
Daywork / Silework	Hours Worked	Travel Time	Total Hours
Foreman or Agent's Signature			
CONDITIONS OF SALE: It is essential that all consignments entered above should be carefully checked by the consignee since this delivery note, once signed by the consignee, represents formal acceptance of the material in good order and condition and the consignee cannot be accepted.			
An acceptance whether or not accompanied by a receipt, does not constitute an acceptance of the vehicle and be confirmed in writing direct to the company immediately.			
All materials and title to same remain the property of supplier until paid in full.			
THIS IS NOT A WASTE TRANSFER NOTE		Form MAHQD16 Rev 05 04/17	

		CN 90001	
W. MAHER & SONS LTD. Ritten Old Hall, Manchester Road, Rotton, Warrington, WA3 9EW T: 0161 778 2200 F: 0161 848 7357 E: enquiries@wmaherandsons.com			
Bulk Excavation & Disposal • Ground Remediation Quarried & Recycled Aggregates • Site Preparation			
CONSIGNMENT NOTE			
Customer:	Lowinson		Date: 9.11.18
Loaded at:	Mass side		
Delivered to:	Trawen		
Driver:	Dares		
Tick ☒ 1 x 8 wh. load: Off Site	Van Reg: ZSO Material: rock		
Tick ☐ 1 x 8 wh. load: Delivered	Material		
Daywork / Sitework	Hours Worked	Travel Time	Total Hours
Foreman or Agent's Signature 			
CONDITIONS OF SALE: It is essential that all written particulars hereabove should be carefully checked by the consignee since this delivery note, once issued by the consignee, represents formal acceptance of the material in good order and condition and all complaints whether in respect of material or circumstances of delivery must be made to the driver of the vehicle and be confirmed in writing direct to the company immediately. All materials and title to same remain the property of supplier until paid in full.			
THIS IS NOT A WASTE TRANSFER NOTE		Form MAH00016 Rev 05 04/17	

		CN 56398		
W. MAHER & SONS LTD. Repton Old Hall, Manchester Road, Risley, Warrington, WA3 9EW T: 0161 776 220 F: 0161 848 7357 E: enquiries@wmaherandsons.com				
Bulk Excavation & Disposal • Ground Remediation Quarried & Recycled Aggregates • Site Preparation				
CONSIGNMENT NOTE				
Customer:	ROCKLINSAN		Date:	9.11.18
Loaded at:	MESS SIDE			
Delivered to:	L.P.			
Driver:	J FARRER		Veh. Reg.:	MK64 MLD
Tick ☒	1 x 8 wh. load; Off Site		Material:	BRICK
Tick ☐	1 x 8 wh. load; Delivered		Material:	
Daywork / Slewwork	Hours Marked	Travel Time	Total Hours	
Foreman or Agent's Signature				
CONDITIONS OF SALE: It is essential that all written particulars entered above should be carefully checked by the consignee since once the material is in good order and condition the consignee, representing the consignee, cannot be accepted. All complaints whether in respect of material or circumstances of delivery must be made to the driver of the vehicle and be confirmed in writing direct to the company within 14 days of delivery. All materials and fill to arrive remain the property of supplier until paid in full.				
THIS IS NOT A WASTE TRANSFER NOTE				Form MAND0018 Rev 05.17

		CN 56396	
W. MAHER & SONS LTD. Rixton Old Hall, Manchester Road, Rixton, Warrington, WA3 8EW T: 0161 776 2205 F: 0161 848 7357 E: enquiries@wmhtrandon.com			
Bulk Excavation & Disposal - Ground Remediation Quarried & Recycled Aggregates - Site Preparation			
CONSIGNMENT NOTE			
Customer: <i>ROBINSON</i>		Date: <i>9.11.18</i>	
Loaded at: <i>MOSS SIDE</i>			
Delivered to: <i>T.P.</i>			
Driver: <i>J. FARNOL</i>		Veh. Reg: <i>M1564 MSD</i>	
☒ Tick 1 x 8 wh. load: Off Site		Material <i>MSD</i>	
☐ Tick 1 x 8 wh. load: Delivered		Material	
Daywork / Hours Worked		Travel Time	
Foreman or Agent's Signature		Total Hours	
CONDITIONS OF SALE: It is essential that all written particulars entered above should be carefully checked by the consignee since this delivery note, once signed by the consignee, represents formal acceptance of the material in good order and condition and subsequent complaints cannot be accepted. All complaints whether in respect of material or shortfalls of delivery must be made to the supplier immediately and in writing, signed and stamped by the consignee, and must be made to the supplier immediately. All materials and this to same remain the property of supplier until paid in full.			
THIS IS NOT A WASTE TRANSFER NOTE		Form MHAHD10 Rev 05 2017	

		CN 56395		
W. MAHER & SONS LTD. Robert Old Hall, Manchester Road, Flixton, Warrington, WA3 6EW T: 0161 778 2200 F: 0161 848 7337 E: enquiries@wmharrisonsa.com				
Bulk Excavation & Disposal • Ground Remediation Quarried & Recycled Aggregates • Site Preparation				
CONSIGNMENT NOTE				
Customer:	ROWLINSON		Date:	4.11.18
Loaded at:	MESS SIDE			
Delivered to:	TIP			
Driver:	S FARRALL		Veh. Reg:	MX66 MND
Tick ☒ 1 x 8 wh. load; Off Site	Material		MULL	
Tick ☐ 1 x 8 wh. load; Delivered	Material			
Days/Week/Shiftwork	Hours Worked	Travel Time	Total Hours	
Foreman or Agent's Signature				

		CN 56399		
W. MAHER & SONS LTD. Roper Old Mill, Manchester Road, Rivington, Warrington, WA5 9DW T: 0161 776 2200 F: 0161 848 7357 E: enquiries@wmaherandsons.com				
Bulk Excavation & Disposal • Ground Remediation Quarried & Recycled Aggregates • Site Preparation				
CONSIGNMENT NOTE				
Customer:	<i>ROCKWELL</i>		Date:	<i>4.11.16</i>
Loaded at:	<i>MOSS SIDE</i>			
Send to:	<i>F.P.</i>			
Tick	☒	<i>5 CARRIER</i>	Veh. Reg. No.	<i>ML6 MKD</i>
☒	1 x 8 wh. load: Off Site	Material		
☐	1 x 8 wh. load: Delivered	Material		
Daywork / Sitework	Hours Worked	Travel Time	Total Hours	
Foreman or Agent's Signature				
CONDITIONS OF SALE: It is essential that all written particulars entered above should be signed by the consignee since this delivery note, once signed by the consignee, represents formal acceptance of the material in good order and condition and subsequent complaints cannot be accepted As complaints whether in respect of quantity or circumstances of delivery must be made to the driver of the vehicle or to the person named in writing direct to the company immediately. All materials and bills to same remain the property of supplier until paid in full.				
THIS IS NOT A WASTE TRANSFER NOTE				
Form MAHQ016 Rev 03 2014				

Maher		CN 59947	
W. MAHER & SONS LTD. Rixton Old Hall, Manchester Road, Rixton, Warrington, WA3 6EW T: 0161 776 2200 F: 0161 848 7357 E: enquiries@wmaherandsons.com			
Bulk Excavation & Disposal • Ground Remediation Quarried & Recycled Aggregates • Site Preparation			
CONSIGNMENT NOTE			
Customer: <u>Rowlinson</u>		Date: <u>8.11.18</u>	
Loaded at: <u>Moss Side</u>			
Delivered to: <u>T/Wall</u>			
Driver: <u>Dave S</u>		Veh. Reg: <u>Z50</u>	
☐ 1 x 8 wh. load: Off Site ☐ 1 x 8 wh. load: Delivered		Material <u>muck</u>	
Daywork / Sitework	Hours Worked	Travel Time	Total Hours
Foreman or Agent's Signature: <u>[Signature]</u>			
CONDITIONS OF SALE: It is essential that all written particulars entered above should be carefully checked by the consignee since this delivery note, once signed by the consignee, represents formal acceptance of the material in good order and condition and subsequent complaints cannot be accepted. All complaints whether in respect of material or circumstances of delivery must be made to the driver of the vehicle and be confirmed in writing direct to the company immediately. All materials and title to same remain the property of supplier until paid in full.			
THIS IS NOT A WASTE TRANSFER NOTE Form MAH/OD/16 Rev 05 04/17			

Maher		CN 90722	
W. MAHER & SONS LTD. Rixton Old Hall, Manchester Road, Rixton, Warrington, WA3 6EW T: 0161 776 2200 F: 0161 848 7357 E: enquiries@wmaherandsons.com			
Bulk Excavation & Disposal • Ground Remediation Quarried & Recycled Aggregates • Site Preparation			
CONSIGNMENT NOTE			
Customer: <u>Rowlinson</u>		Date: <u>8.11.18</u>	
Loaded at: <u>Moss Side</u>			
Delivered to: <u>TIP</u>			
Driver: <u>D HARRIS</u>		Veh. Reg: <u>MX17ZSV</u>	
☒ 1 x 8 wh. load: Off Site ☐ 1 x 8 wh. load: Delivered		Material <u>Muck</u>	
Daywork / Sitework	Hours Worked	Travel Time	Total Hours
Foreman or Agent's Signature: <u>[Signature]</u>			
CONDITIONS OF SALE: It is essential that all written particulars entered above should be carefully checked by the consignee since this delivery note, once signed by the consignee, represents formal acceptance of the material in good order and condition and subsequent complaints cannot be accepted. All complaints whether in respect of material or circumstances of delivery must be made to the driver of the vehicle and be confirmed in writing direct to the company immediately. All materials and title to same remain the property of supplier until paid in full.			
THIS IS NOT A WASTE TRANSFER NOTE Form MAH/OD/16 Rev 05 04/17			

Maher		CN 59948	
W. MAHER & SONS LTD. Rixton Old Hall, Manchester Road, Rixton, Warrington, WA3 6EW T: 0161 776 2200 F: 0161 848 7357 E: enquiries@wmaherandsons.com			
Bulk Excavation & Disposal • Ground Remediation Quarried & Recycled Aggregates • Site Preparation			
CONSIGNMENT NOTE			
Customer: <u>Rowlinson</u>		Date: <u>8.11.18</u>	
Loaded at: <u>Moss Side</u>			
Delivered to: <u>T/Wall</u>			
Driver: <u>Dave S</u>		Veh. Reg: <u>Z50</u>	
☐ 1 x 8 wh. load: Off Site ☐ 1 x 8 wh. load: Delivered		Material <u>muck</u>	
Daywork / Sitework	Hours Worked	Travel Time	Total Hours
Foreman or Agent's Signature: <u>[Signature]</u>			
CONDITIONS OF SALE: It is essential that all written particulars entered above should be carefully checked by the consignee since this delivery note, once signed by the consignee, represents formal acceptance of the material in good order and condition and subsequent complaints cannot be accepted. All complaints whether in respect of material or circumstances of delivery must be made to the driver of the vehicle and be confirmed in writing direct to the company immediately. All materials and title to same remain the property of supplier until paid in full.			
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Maher		CN 59946	
W. MAHER & SONS LTD. Rixton Old Hall, Manchester Road, Rixton, Warrington, WA3 6EW T: 0161 776 2200 F: 0161 848 7357 E: enquiries@wmaherandsons.com			
Bulk Excavation & Disposal • Ground Remediation Quarried & Recycled Aggregates • Site Preparation			
CONSIGNMENT NOTE			
Customer: <u>Rowlinson</u>		Date: <u>8.11.18</u>	
Loaded at: <u>Moss Side</u>			
Delivered to: <u>T/Wall</u>			
Driver: <u>Dave S</u>		Veh. Reg: <u>Z50</u>	
☐ 1 x 8 wh. load: Off Site ☐ 1 x 8 wh. load: Delivered		Material <u>muck</u>	
Daywork / Sitework	Hours Worked	Travel Time	Total Hours
Foreman or Agent's Signature: <u>[Signature]</u>			
CONDITIONS OF SALE: It is essential that all written particulars entered above should be carefully checked by the consignee since this delivery note, once signed by the consignee, represents formal acceptance of the material in good order and condition and subsequent complaints cannot be accepted. All complaints whether in respect of material or circumstances of delivery must be made to the driver of the vehicle and be confirmed in writing direct to the company immediately. All materials and title to same remain the property of supplier until paid in full.			
THIS IS NOT A WASTE TRANSFER NOTE Form MAH/OD/16 Rev 05 04/17			

Maher		CN 90719	
W. MAHER & SONS LTD. Rixton Old Hall, Manchester Road, Rixton, Warrington, WA3 6EW T: 0161 776 2200 F: 0161 848 7357 E: enquiries@wmaherandsons.com			
Bulk Excavation & Disposal • Ground Remediation Quarried & Recycled Aggregates • Site Preparation			
CONSIGNMENT NOTE			
Customer: <u>Rowlinson</u>		Date: <u>8.11.18</u>	
Loaded at: <u>Moss Side</u>			
Delivered to: <u>TIP</u>			
Driver: <u>D HARRIS</u>		Veh. Reg: <u>MX17ZSV</u>	
☒ 1 x 8 wh. load: Off Site ☐ 1 x 8 wh. load: Delivered		Material <u>Muck</u>	
Daywork / Sitework	Hours Worked	Travel Time	Total Hours
Foreman or Agent's Signature: <u>[Signature]</u>			
CONDITIONS OF SALE: It is essential that all written particulars entered above should be carefully checked by the consignee since this delivery note, once signed by the consignee, represents formal acceptance of the material in good order and condition and subsequent complaints cannot be accepted. All complaints whether in respect of material or circumstances of delivery must be made to the driver of the vehicle and be confirmed in writing direct to the company immediately. All materials and title to same remain the property of supplier until paid in full.			
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Maher		CN 90721	
W. MAHER & SONS LTD. Rixton Old Hall, Manchester Road, Rixton, Warrington, WA3 6EW T: 0161 776 2200 F: 0161 848 7357 E: enquiries@wmaherandsons.com			
Bulk Excavation & Disposal • Ground Remediation Quarried & Recycled Aggregates • Site Preparation			
CONSIGNMENT NOTE			
Customer: <u>Rowlinson</u>		Date: <u>8.11.18</u>	
Loaded at: <u>Moss Side</u>			
Delivered to: <u>TIP</u>			
Driver: <u>D HARRIS</u>		Veh. Reg: <u>MX17ZSV</u>	
☒ 1 x 8 wh. load: Off Site ☐ 1 x 8 wh. load: Delivered		Material <u>Muck</u>	
Daywork / Sitework	Hours Worked	Travel Time	Total Hours
Foreman or Agent's Signature: <u>[Signature]</u>			
CONDITIONS OF SALE: It is essential that all written particulars entered above should be carefully checked by the consignee since this delivery note, once signed by the consignee, represents formal acceptance of the material in good order and condition and subsequent complaints cannot be accepted. All complaints whether in respect of material or circumstances of delivery must be made to the driver of the vehicle and be confirmed in writing direct to the company immediately. All materials and title to same remain the property of supplier until paid in full.			
THIS IS NOT A WASTE TRANSFER NOTE Form MAH/OD/16 Rev 05 04/17			

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