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Derwentside Environmental Testing Services Ltd
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DETS Report No: 24-00434

Site Reference:	Burnage Lane, Manchester
Project / Job Ref:	A5595
Order No:	None Supplied
Sample Receipt Date:	17/01/2024
Sample Scheduled Date:	17/01/2024
Report Issue Number:	1
Reporting Date:	23/01/2024

Authorised by:

Steve Knight
Customer Support Manager

Dates of laboratory activities for each tested analyte are available upon request.

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Soil Analysis Certificate						
DETS Report No: 24-00434	**Date Sampled**	11/01/24	11/01/24	11/01/24	11/01/24	11/01/24
Earth Environmental & Geotechnical Ltd	**Time Sampled**	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Burnage Lane, Manchester	**TP / BH No**	WS01	WS01	WS02	WS02	WS03
Project / Job Ref: A5595	**Additional Refs**	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Order No: None Supplied	**Depth (m)**	0.30	0.60	0.20	0.50	0.30
Reporting Date: 23/01/2024	**DETS Sample No**	694435	694436	694437	694438	694439

Determinand	Unit	RL	Accreditation	(n)			(n)	
Asbestos Screen (S)	N/a	N/a	ISO17025	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
pH	pH Units	N/a	MCERTS	10.0	7.2	8.8	8.0	7.6
Total Cyanide	mg/kg	< 1	NONE	< 1	< 1	< 1	< 1	< 1
Complex Cyanide	mg/kg	< 1	NONE	< 1	< 1	< 1	< 1	< 1
Free Cyanide	mg/kg	< 1	NONE	< 1	< 1	< 1	< 1	< 1
Total Sulphate as SO_4	mg/kg	< 200	MCERTS	1206	< 200	5297	1768	222
Total Sulphate as SO_4	%	< 0.02	MCERTS	0.12	< 0.02	0.53	0.18	0.02
W/S Sulphate as SO_4 (2:1)	mg/l	< 10	MCERTS	115	13	725	348	10
W/S Sulphate as SO_4 (2:1)	g/l	< 0.01	MCERTS	0.12	0.01	0.72	0.35	0.01
Sulphide	mg/kg	< 5	NONE	< 5	18	< 5	< 5	< 5
Organic Matter (SOM)	%	< 0.1	MCERTS	16.8	2	2.4	9.4	4.2
Arsenic (As)	mg/kg	< 2	MCERTS	12	5	15	27	8
Barium (Ba)	mg/kg	< 2.5	MCERTS	104	95	169	134	36
Beryllium (Be)	mg/kg	< 0.5	MCERTS	1	< 0.5	0.6	1.2	< 0.5
W/S Boron	mg/kg	< 1	NONE	< 1	< 1	2	1.3	< 1
Cadmium (Cd)	mg/kg	< 0.2	MCERTS	< 0.2	< 0.2	2.1	0.9	0.3
Chromium (Cr)	mg/kg	< 2	MCERTS	10	10	16	13	6
Chromium (hexavalent)	mg/kg	< 2	NONE	< 2	< 2	< 2	< 2	< 2
Copper (Cu)	mg/kg	< 4	MCERTS	44	11	32	55	26
Lead (Pb)	mg/kg	< 3	MCERTS	79	17	47	121	39
Mercury (Hg)	mg/kg	< 1	MCERTS	1.2	< 1	< 1	< 1	< 1
Nickel (Ni)	mg/kg	< 3	MCERTS	16	7	12	16	8
Selenium (Se)	mg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
Vanadium (V)	mg/kg	< 1	MCERTS	23	13	33	30	11
Zinc (Zn)	mg/kg	< 3	MCERTS	45	20	173	138	29
Total Phenols (monohydric)	mg/kg	< 2	NONE	< 2	< 2	< 2	< 2	< 2
TPH (EPH EC10-EC40) : EH_1D_Total	mg/kg	< 6	MCERTS	538	7	7070	317	617

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C. The Method Description page describes if the test is performed on the dried or as-received portion
Subcontracted analysis (S)
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Soil Analysis Certificate						
DETS Report No: 24-00434	**Date Sampled**	11/01/24	11/01/24			
Earth Environmental & Geotechnical Ltd	**Time Sampled**	None Supplied	None Supplied			
Site Reference: Burnage Lane, Manchester	**TP / BH No**	WS04	WS05			
Project / Job Ref: A5595	**Additional Refs**	None Supplied	None Supplied			
Order No: None Supplied	**Depth (m)**	0.30	0.50			
Reporting Date: 23/01/2024	**DETS Sample No**	694440	694441			

Determinand	Unit	RL	Accreditation	(n)				
Asbestos Screen (S)	N/a	N/a	ISO17025	Not Detected	Not Detected			
pH	pH Units	N/a	MCERTS	7.9	7.6			
Total Cyanide	mg/kg	< 1	NONE	< 1	< 1			
Complex Cyanide	mg/kg	< 1	NONE	< 1	< 1			
Free Cyanide	mg/kg	< 1	NONE	< 1	< 1			
Total Sulphate as SO_4	mg/kg	< 200	MCERTS	335	< 200			
Total Sulphate as SO_4	%	< 0.02	MCERTS	0.03	< 0.02			
W/S Sulphate as SO_4 (2:1)	mg/l	< 10	MCERTS	31	22			
W/S Sulphate as SO_4 (2:1)	g/l	< 0.01	MCERTS	0.03	0.02			
Sulphide	mg/kg	< 5	NONE	< 5	< 5			
Organic Matter (SOM)	%	< 0.1	MCERTS	1.6	1			
Arsenic (As)	mg/kg	< 2	MCERTS	4	< 2			
Barium (Ba)	mg/kg	< 2.5	MCERTS	34	10			
Beryllium (Be)	mg/kg	< 0.5	MCERTS	< 0.5	< 0.5			
W/S Boron	mg/kg	< 1	NONE	< 1	< 1			
Cadmium (Cd)	mg/kg	< 0.2	MCERTS	< 0.2	< 0.2			
Chromium (Cr)	mg/kg	< 2	MCERTS	5	< 2			
Chromium (hexavalent)	mg/kg	< 2	NONE	< 2	< 2			
Copper (Cu)	mg/kg	< 4	MCERTS	14	< 4			
Lead (Pb)	mg/kg	< 3	MCERTS	27	5			
Mercury (Hg)	mg/kg	< 1	MCERTS	< 1	< 1			
Nickel (Ni)	mg/kg	< 3	MCERTS	< 3	< 3			
Selenium (Se)	mg/kg	< 2	MCERTS	< 2	< 2			
Vanadium (V)	mg/kg	< 1	MCERTS	7	2			
Zinc (Zn)	mg/kg	< 3	MCERTS	15	3			
Total Phenols (monohydric)	mg/kg	< 2	NONE	< 2	< 2			
TPH (EPH EC10-EC40) : EH_1D_Total	mg/kg	< 6	MCERTS	< 6	< 6			

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C. The Method Description page describes if the test is performed on the dried or as-received portion
Subcontracted analysis (S)

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Soil Analysis Certificate - Speciated PAHs						
DETS Report No: 24-00434	**Date Sampled**	11/01/24	11/01/24	11/01/24	11/01/24	11/01/24
Earth Environmental & Geotechnical Ltd	**Time Sampled**	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Burnage Lane, Manchester	**TP / BH No**	WS01	WS01	WS02	WS02	WS03
Project / Job Ref: A5595	**Additional Refs**	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Order No: None Supplied	**Depth (m)**	0.30	0.60	0.20	0.50	0.30
Reporting Date: 23/01/2024	**DETS Sample No**	694435	694436	694437	694438	694439

Determinand	Unit	RL	Accreditation					
Naphthalene	mg/kg	< 0.1	MCERTS	0.48	< 0.1	0.42	0.16	0.23
Acenaphthylene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	0.13
Acenaphthene	mg/kg	< 0.1	MCERTS	0.91	< 0.1	0.13	< 0.1	2.47
Fluorene	mg/kg	< 0.1	MCERTS	0.96	< 0.1	0.35	< 0.1	1.97
Phenanthrene	mg/kg	< 0.1	MCERTS	10	< 0.1	1.37	0.98	19.70
Anthracene	mg/kg	< 0.1	MCERTS	1.86	< 0.1	0.22	0.21	8.56
Fluoranthene	mg/kg	< 0.1	MCERTS	8.89	< 0.1	0.88	1.03	35.80
Pyrene	mg/kg	< 0.1	MCERTS	7.98	< 0.1	0.87	0.96	28.50
Benzo(a)anthracene	mg/kg	< 0.1	MCERTS	3.03	< 0.1	0.54	0.57	16
Chrysene	mg/kg	< 0.1	MCERTS	2.86	< 0.1	0.61	0.50	13.40
Benzo(b)fluoranthene	mg/kg	< 0.1	MCERTS	2.32	< 0.1	0.42	0.62	13.60
Benzo(k)fluoranthene	mg/kg	< 0.1	MCERTS	0.82	< 0.1	< 0.1	0.20	5.61
Benzo(a)pyrene	mg/kg	< 0.1	MCERTS	2	< 0.1	0.35	0.50	13.60
Indeno(1,2,3-cd)pyrene	mg/kg	< 0.1	MCERTS	0.90	< 0.1	< 0.1	0.26	6.74
Dibenz(a,h)anthracene	mg/kg	< 0.1	MCERTS	0.21	< 0.1	< 0.1	< 0.1	1.82
Benzo(ghi)perylene	mg/kg	< 0.1	MCERTS	0.75	< 0.1	< 0.1	0.22	5.55
Total EPA-16 PAHs	mg/kg	< 1.6	MCERTS	44	< 1.6	6.2	6.2	174

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Soil Analysis Certificate - Speciated PAHs						
DETS Report No: 24-00434	**Date Sampled**	11/01/24	11/01/24			
Earth Environmental & Geotechnical Ltd	**Time Sampled**	None Supplied	None Supplied			
Site Reference: Burnage Lane, Manchester	**TP / BH No**	WS04	WS05			
Project / Job Ref: A5595	**Additional Refs**	None Supplied	None Supplied			
Order No: None Supplied	**Depth (m)**	0.30	0.50			
Reporting Date: 23/01/2024	**DETS Sample No**	694440	694441			

Determinand	Unit	RL	Accreditation	(n)				
Naphthalene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1			
Acenaphthylene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1			
Acenaphthene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1			
Fluorene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1			
Phenanthrene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1			
Anthracene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1			
Fluoranthene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1			
Pyrene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1			
Benzo(a)anthracene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1			
Chrysene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1			
Benzo(b)fluoranthene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1			
Benzo(k)fluoranthene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1			
Benzo(a)pyrene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1			
Indeno(1,2,3-cd)pyrene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1			
Dibenz(a,h)anthracene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1			
Benzo(ghi)perylene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1			
Total EPA-16 PAHs	mg/kg	< 1.6	MCERTS	< 1.6	< 1.6			

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Soil Analysis Certificate - TPH CWG Banded						
DETS Report No: 24-00434	**Date Sampled**	11/01/24	11/01/24	11/01/24	11/01/24	11/01/24
Earth Environmental & Geotechnical Ltd	**Time Sampled**	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Burnage Lane, Manchester	**TP / BH No**	WS01	WS01	WS02	WS02	WS03
Project / Job Ref: A5595	**Additional Refs**	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Order No: None Supplied	**Depth (m)**	0.30	0.60	0.20	0.50	0.30
Reporting Date: 23/01/2024	**DETS Sample No**	694435	694436	694437	694438	694439

Determinand	Unit	RL	Accreditation	(n)			(n)	
Aliphatic >C5 - C6 : HS_1D_MS_AL	mg/kg	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aliphatic >C6 - C8 : HS_1D_MS_AL	mg/kg	< 0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic >C8 - C10 : EH_CU_1D_AL	mg/kg	< 2	MCERTS	16	< 2	3	< 2	4
Aliphatic >C10 - C12 : EH_CU_1D_AL	mg/kg	< 2	MCERTS	8	< 2	15	< 2	2
Aliphatic >C12 - C16 : EH_CU_1D_AL	mg/kg	< 3	MCERTS	7	< 3	254	< 3	10
Aliphatic >C16 - C21 : EH_CU_1D_AL	mg/kg	< 3	MCERTS	16	< 3	753	3	55
Aliphatic >C21 - C34 : EH_CU_1D_AL	mg/kg	< 10	MCERTS	154	< 10	1878	42	46
Aliphatic (C5 - C34) : HS_1D_MS+EH_CU_1D_AL	mg/kg	< 21	NONE	201	< 21	2903	45	117
Aromatic >C5 - C7 : HS_1D_MS_AR	mg/kg	< 0.01	NONE	0.74	0.56	0.11	0.04	< 0.01
Aromatic >C7 - C8 : HS_1D_MS_AR	mg/kg	< 0.05	NONE	0.26	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic >C8 - C10 : EH_CU_1D_AR	mg/kg	< 2	MCERTS	36	4	3	3	< 2
Aromatic >C10 - C12 : EH_CU_1D_AR	mg/kg	< 2	MCERTS	9	< 2	3	< 2	< 2
Aromatic >C12 - C16 : EH_CU_1D_AR	mg/kg	< 2	MCERTS	17	< 2	88	4	13
Aromatic >C16 - C21 : EH_CU_1D_AR	mg/kg	< 3	MCERTS	80	12	578	24	123
Aromatic >C21 - C35 : EH_CU_1D_AR	mg/kg	< 10	MCERTS	66	< 10	1907	32	116
Aromatic (C5 - C35) : HS_1D_MS+EH_CU_1D_AR	mg/kg	< 21	NONE	208	< 21	2578	63	251
Total >C5 - C35 : HS_1D_MS+EH_CU_1D_Total	mg/kg	< 42	NONE	410	< 42	5481	109	368

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Soil Analysis Certificate - TPH CWG Banded						
DETS Report No: 24-00434	**Date Sampled**	11/01/24	11/01/24			
Earth Environmental & Geotechnical Ltd	**Time Sampled**	None Supplied	None Supplied			
Site Reference: Burnage Lane, Manchester	**TP / BH No**	WS04	WS05			
Project / Job Ref: A5595	**Additional Refs**	None Supplied	None Supplied			
Order No: None Supplied	**Depth (m)**	0.30	0.50			
Reporting Date: 23/01/2024	**DETS Sample No**	694440	694441			

Determinand	Unit	RL	Accreditation	(n)				
Aliphatic >C5 - C6 : HS_1D_MS_AL	mg/kg	< 0.01	NONE	< 0.01	< 0.01			
Aliphatic >C6 - C8 : HS_1D_MS_AL	mg/kg	< 0.05	NONE	< 0.05	< 0.05			
Aliphatic >C8 - C10 : EH_CU_1D_AL	mg/kg	< 2	**MCERTS**	4	6			
Aliphatic >C10 - C12 : EH_CU_1D_AL	mg/kg	< 2	**MCERTS**	4	2			
Aliphatic >C12 - C16 : EH_CU_1D_AL	mg/kg	< 3	**MCERTS**	< 3	< 3			
Aliphatic >C16 - C21 : EH_CU_1D_AL	mg/kg	< 3	**MCERTS**	< 3	< 3			
Aliphatic >C21 - C34 : EH_CU_1D_AL	mg/kg	< 10	**MCERTS**	< 10	< 10			
Aliphatic (C5 - C34) : HS_1D_MS+EH_CU_1D_AL	mg/kg	< 21	NONE	< 21	< 21			
Aromatic >C5 - C7 : HS_1D_MS_AR	mg/kg	< 0.01	NONE	< 0.01	< 0.01			
Aromatic >C7 - C8 : HS_1D_MS_AR	mg/kg	< 0.05	NONE	< 0.05	< 0.05			
Aromatic >C8 - C10 : EH_CU_1D_AR	mg/kg	< 2	**MCERTS**	< 2	< 2			
Aromatic >C10 - C12 : EH_CU_1D_AR	mg/kg	< 2	**MCERTS**	< 2	< 2			
Aromatic >C12 - C16 : EH_CU_1D_AR	mg/kg	< 2	**MCERTS**	< 2	< 2			
Aromatic >C16 - C21 : EH_CU_1D_AR	mg/kg	< 3	**MCERTS**	< 3	< 3			
Aromatic >C21 - C35 : EH_CU_1D_AR	mg/kg	< 10	**MCERTS**	< 10	< 10			
Aromatic (C5 - C35) : HS_1D_MS+EH_CU_1D_AR	mg/kg	< 21	NONE	< 21	< 21			
Total >C5 - C35 : HS_1D_MS+EH_CU_1D_Total	mg/kg	< 42	NONE	< 42	< 42			

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Soil Analysis Certificate - BTEX / MTBE						
DETS Report No: 24-00434	**Date Sampled**	11/01/24	11/01/24	11/01/24	11/01/24	11/01/24
Earth Environmental & Geotechnical Ltd	**Time Sampled**	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Burnage Lane, Manchester	**TP / BH No**	WS01	WS01	WS02	WS02	WS03
Project / Job Ref: A5595	**Additional Refs**	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Order No: None Supplied	**Depth (m)**	0.30	0.60	0.20	0.50	0.30
Reporting Date: 23/01/2024	**DETS Sample No**	694435	694436	694437	694438	694439

Determinand	Unit	RL	Accreditation					
Benzene : HS_1D_MS	ug/kg	< 2	MCERTS	736	561	107	45 (n)	< 2
Toluene : HS_1D_MS	ug/kg	< 5	MCERTS	259	28	12	7	< 5
Ethylbenzene : HS_1D_MS	ug/kg	< 2	MCERTS	45	27	< 2	< 2	< 2
p & m-xylene : HS_1D_MS	ug/kg	< 2	MCERTS	217	126	4	3	< 2
o-xylene : HS_1D_MS	ug/kg	< 2	MCERTS	72	39	< 2	< 2	< 2
MTBE : HS_1D_MS	ug/kg	< 5	MCERTS	< 5	< 5	< 5	< 5	< 5

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Soil Analysis Certificate - BTEX / MTBE						
DETS Report No: 24-00434	**Date Sampled**	11/01/24	11/01/24			
Earth Environmental & Geotechnical Ltd	**Time Sampled**	None Supplied	None Supplied			
Site Reference: Burnage Lane, Manchester	**TP / BH No**	WS04	WS05			
Project / Job Ref: A5595	**Additional Refs**	None Supplied	None Supplied			
Order No: None Supplied	**Depth (m)**	0.30	0.50			
Reporting Date: 23/01/2024	**DETS Sample No**	694440	694441			

Determinand	Unit	RL	Accreditation	(n)				
Benzene : HS_1D_MS	ug/kg	< 2	MCERTS	< 2	< 2			
Toluene : HS_1D_MS	ug/kg	< 5	MCERTS	< 5	< 5			
Ethylbenzene : HS_1D_MS	ug/kg	< 2	MCERTS	< 2	< 2			
p & m-xylene : HS_1D_MS	ug/kg	< 2	MCERTS	< 2	< 2			
o-xylene : HS_1D_MS	ug/kg	< 2	MCERTS	< 2	< 2			
MTBE : HS_1D_MS	ug/kg	< 5	MCERTS	< 5	< 5			

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Soil Analysis Certificate - PCB (7 Congeners)						
DETS Report No: 24-00434	**Date Sampled**	11/01/24	11/01/24	11/01/24		
Earth Environmental & Geotechnical Ltd	**Time Sampled**	None Supplied	None Supplied	None Supplied		
Site Reference: Burnage Lane, Manchester	**TP / BH No**	WS03	WS04	WS05		
Project / Job Ref: A5595	**Additional Refs**	None Supplied	None Supplied	None Supplied		
Order No: None Supplied	**Depth (m)**	0.30	0.30	0.50		
Reporting Date: 23/01/2024	**DETS Sample No**	694439	694440	694441		

Determinand	**Unit**	**RL**	**Accreditation**			(n)		
PCB Congener 28	mg/kg	< 0.008	NONE	< 0.008	< 0.008	< 0.008		
PCB Congener 52	mg/kg	< 0.008	NONE	< 0.008	< 0.008	< 0.008		
PCB Congener 101	mg/kg	< 0.008	NONE	< 0.008	< 0.008	< 0.008		
PCB Congener 118	mg/kg	< 0.008	NONE	< 0.008	< 0.008	< 0.008		
PCB Congener 138	mg/kg	< 0.008	NONE	< 0.008	< 0.008	< 0.008		
PCB Congener 153	mg/kg	< 0.008	NONE	< 0.008	< 0.008	< 0.008		
PCB Congener 180	mg/kg	< 0.008	NONE	< 0.008	< 0.008	< 0.008		
Total PCB (7 Congeners)	mg/kg	< 0.1	NONE	< 0.1	< 0.1	< 0.1		

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Soil Analysis Certificate - Sample Descriptions
DETS Report No: 24-00434
Earth Environmental & Geotechnical Ltd
Site Reference: Burnage Lane, Manchester
Project / Job Ref: A5595
Order No: None Supplied
Reporting Date: 23/01/2024

DETS Sample No	TP / BH No	Additional Refs	Depth (m)	Moisture Content (%)	Sample Matrix Description
694435	WS01	None Supplied	0.30	8.8	Black sandy gravel with stones and concrete
694436	WS01	None Supplied	0.60	14.6	Brown sandy clay
694437	WS02	None Supplied	0.20	10.3	Light brown sandy clay with brick and concrete
694438	WS02	None Supplied	0.50	14.6	Brown sandy gravel with stones and concrete
694439	WS03	None Supplied	0.30	8.9	Black sandy clay with stones
694440	WS04	None Supplied	0.30	13.1	Brown sandy clay with stones and brick
694441	WS05	None Supplied	0.50	8.2	Brown sand with stones

Moisture content is part of procedure E003 & is not an accredited test
Insufficient Sample I/S
Unsuitable Sample U/S

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4480

Soil Analysis Certificate - Methodology & Miscellaneous Information
DETS Report No: 24-00434
Earth Environmental & Geotechnical Ltd
Site Reference: Burnage Lane, Manchester
Project / Job Ref: A5595
Order No: None Supplied
Reporting Date: 23/01/2024

Matrix	Analysed On	Determinand	Brief Method Description	Method No
Soil	D	Boron - Water Soluble	Determination of water soluble boron in soil by 2:1 hot water extract followed by ICP-OES	E012
Soil	AR	BTEX	Determination of BTEX by headspace GC-MS	E001
Soil	D	Cations	Determination of cations in soil by aqua-regia digestion followed by ICP-OES	E002
Soil	D	Chloride - Water Soluble (2:1)	Determination of chloride by extraction with water & analysed by ion chromatography	E009
Soil	AR	Chromium - Hexavalent	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry	E016
Soil	AR	Cyanide - Complex	Determination of complex cyanide by distillation followed by colorimetry	E015
Soil	AR	Cyanide - Free	Determination of free cyanide by distillation followed by colorimetry	E015
Soil	AR	Cyanide - Total	Determination of total cyanide by distillation followed by colorimetry	E015
Soil	D	Cyclohexane Extractable Matter (CEM)	Gravimetrically determined through extraction with cyclohexane	E011
Soil	AR	Diesel Range Organics (C10 - C24)	Determination of hexane/acetone extractable hydrocarbons by GC-FID	E004
Soil	AR	Electrical Conductivity	Determination of electrical conductivity by addition of saturated calcium sulphate followed by electrometric measurement	E022
Soil	AR	Electrical Conductivity	Determination of electrical conductivity by addition of water followed by electrometric measurement	E023
Soil	D	Elemental Sulphur	Determination of elemental sulphur by solvent extraction followed by GC-MS	E020
Soil	AR	EPH (C10 – C40)	Determination of acetone/hexane extractable hydrocarbons by GC-FID	E004
Soil	AR	EPH Product ID	Determination of acetone/hexane extractable hydrocarbons by GC-FID	E004
Soil	AR	EPH TEXAS (C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C40)	Determination of acetone/hexane extractable hydrocarbons by GC-FID for C8 to C40. C6 to C8 by headspace GC-MS	E004
Soil	D	Fluoride - Water Soluble	Determination of Fluoride by extraction with water & analysed by ion chromatography	E009
Soil	D	Fraction Organic Carbon (FOC)	Determination of TOC by combustion analyser.	E027
Soil	D	Organic Matter (SOM)	Determination of TOC by combustion analyser.	E027
Soil	D	TOC (Total Organic Carbon)	Determination of TOC by combustion analyser.	E027
Soil	AR	Exchangeable Ammonium	Determination of ammonium by discrete analyser.	E029
Soil	D	FOC (Fraction Organic Carbon)	Determination of fraction of organic carbon by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	D	Loss on Ignition @ 450oC	Determination of loss on ignition in soil by gravimetrically with the sample being ignited in a muffle furnace	E019
Soil	D	Magnesium - Water Soluble	Determination of water soluble magnesium by extraction with water followed by ICP-OES	E025
Soil	D	Metals	Determination of metals by aqua-regia digestion followed by ICP-OES	E002
Soil	AR	Mineral Oil (C10 - C40)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge	E004
Soil	AR	Moisture Content	Moisture content; determined gravimetrically	E003
Soil	D	Nitrate - Water Soluble (2:1)	Determination of nitrate by extraction with water & analysed by ion chromatography	E009
Soil	D	Organic Matter	Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	AR	PAH - Speciated (EPA 16)	Determination of PAH compounds by extraction in acetone and hexane followed by GC-MS with the use of surrogate and internal standards	E005
Soil	AR	PCB - 7 Congeners	Determination of PCB by extraction with acetone and hexane followed by GC-MS	E008
Soil	D	Petroleum Ether Extract (PEE)	Gravimetrically determined through extraction with petroleum ether	E011
Soil	AR	pH	Determination of pH by addition of water followed by electrometric measurement	E007
Soil	AR	Phenols - Total (monohydric)	Determination of phenols by distillation followed by colorimetry	E021
Soil	D	Phosphate - Water Soluble (2:1)	Determination of phosphate by extraction with water & analysed by ion chromatography	E009
Soil	D	Sulphate (as SO4) - Total	Determination of total sulphate by extraction with 10% HCl followed by ICP-OES	E013
Soil	D	Sulphate (as SO4) - Water Soluble (2:1)	Determination of sulphate by extraction with water & analysed by ion chromatography	E009
Soil	D	Sulphate (as SO4) - Water Soluble (2:1)	Determination of water soluble sulphate by extraction with water followed by ICP-OES	E014
Soil	AR	Sulphide	Determination of sulphide by distillation followed by colorimetry	E018
Soil	D	Sulphur - Total	Determination of total sulphur by extraction with aqua-regia followed by ICP-OES	E024
Soil	AR	SVOC	Determination of semi-volatile organic compounds by extraction in acetone and hexane followed by GC-MS	E006
Soil	AR	Thiocyanate (as SCN)	Determination of thiocyanate by extraction in caustic soda followed by acidification followed by addition of ferric nitrate followed by colorimetry	E017
Soil	D	Toluene Extractable Matter (TEM)	Gravimetrically determined through extraction with toluene	E011
Soil	D	Total Organic Carbon (TOC)	Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	AR	TPH CWG (ali: C5- C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C35. C5 to C8 by headspace GC-MS	E004
Soil	AR	TPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C44. C5 to C8 by headspace GC-MS	E004
Soil	AR	VOCs	Determination of volatile organic compounds by headspace GC-MS	E001
Soil	AR	VPH (C6-C8 & C8-C10)	Determination of hydrocarbons C6-C8 by headspace GC-MS & C8-C10 by GC-FID	E001

D Dried
AR As Received

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List of HWOL Acronyms and Operators
DETS Report No: 24-00434
Earth Environmental & Geotechnical Ltd
Site Reference: Burnage Lane, Manchester
Project / Job Ref: A5595
Order No: None Supplied
Reporting Date: 23/01/2024

Acronym	**Description**
HS	Headspace analysis
EH	Extractable Hydrocarbons - i.e. everything extracted by the solvent
CU	Clean-up - e.g. by florisil, silica gel
1D	GC - Single coil gas chromatography
2D	GC-GC - Double coil gas chromatography
Total	Aliphatics & Aromatics
AL	Aliphatics only
AR	Aromatics only
#1	EH_2D_Total but with humics mathematically subtracted
#2	EH_2D_Total but with fatty acids mathematically subtracted
_	Operator - underscore to separate acronyms (exception for +)
+	Operator to indicate cumulative eg. EH+HS_Total or EH_CU+HS_Total

Det - Acronym
Benzene - HS_1D_MS
Ethylbenzene - HS_1D_MS
MTBE - HS_1D_MS
TPH (EPH EC10-EC40) - EH_1D_Total
TPH CWG - Aliphatic >C10 - C12 - EH_CU_1D_AL
TPH CWG - Aliphatic >C12 - C16 - EH_CU_1D_AL
TPH CWG - Aliphatic >C16 - C21 - EH_CU_1D_AL
TPH CWG - Aliphatic >C21 - C34 - EH_CU_1D_AL
TPH CWG - Aliphatic >C5 - C6 - HS_1D_MS_AL
TPH CWG - Aliphatic >C6 - C8 - HS_1D_MS_AL
TPH CWG - Aliphatic >C8 - C10 - EH_CU_1D_AL
TPH CWG - Aliphatic C5 - C34 - HS_1D_MS+EH_CU_1D_AL
TPH CWG - Aromatic >C10 - C12 - EH_CU_1D_AR
TPH CWG - Aromatic >C12 - C16 - EH_CU_1D_AR
TPH CWG - Aromatic >C16 - C21 - EH_CU_1D_AR
TPH CWG - Aromatic >C21 - C35 - EH_CU_1D_AR
TPH CWG - Aromatic >C5 - C35 - HS_1D_MS+EH_CU_1D_AR
TPH CWG - Aromatic >C5 - C7 - HS_1D_MS_AR
TPH CWG - Aromatic >C7 - C8 - HS_1D_MS_AR
TPH CWG - Aromatic >C8 - C10 - EH_CU_1D_AR
TPH CWG - Total >C5 - C35 - HS_1D_MS+EH_CU_1D_Total
Toluene - HS_1D_MS
m & p-xylene - HS_1D_MS
o-Xylene - HS_1D_MS