

APPENDIX D

Laboratory Chemical Data & Statistical Output

Project / Site name: Church Lane, Moston

				GAC (Residential with home-grown produce) mg/kg (1-6% SOM)	Made Ground											
Lab Sample Number				Residential with home-grown produce GAC @ 2.5% SOM (mg/kg) for organics in Made Ground*	Residential with home-grown produce GAC @ 1.0% SOM (mg/kg) for organics in Natural Strata*	342556	342558	342560	342562	342564	342565	342566	342567	342568	347142	347143
Sample Reference						BH1-ES2	BH2-ES1	BH3-ES1	BH4-ES1	BH5-ES1	BH5-ES2	BH6-ES1	BH6-ES2	BH7-ES1	CP1-ES1	CP1-ES2
Depth (m)						0.50	0.50	0.50	0.50	1.00	2.00	0.50	1.50	0.50	1.00	4.00
Date Sampled						04/10/2024	04/10/2024	04/10/2024	04/10/2024	04/10/2024	04/10/2024	04/10/2024	04/10/2024	04/10/2024	04/10/2024	10/10/2024
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status													
Stone Content	%	0.1	NONE	-	-	< 0.1	< 0.1	23.3	11.7	< 0.1	21.8	8.7	< 0.1	16	58.7	< 0.1
Moisture Content	%	0.01	NONE	-	-	15	19	13	18	21	15	16	19	16	8.8	17
Total mass of sample received	kg	0.1	NONE	-	-	1	0.9	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.9	0.8
Asbestos																
Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	Presence	Not-detected	Detected	Not-detected	Not-detected	Not-detected	Detected	Detected	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A		DKI	DKI	DKI	DKI	DKI	DKI	MBI	MBI	MBI	MMI	MMI	
Actinolite detected	Type	N/A	ISO 17025		-	Not-detected	-	-	-	Not-detected	Not-detected	-	-	-	-	
Amosite detected	Type	N/A	ISO 17025		-	Not-detected	-	-	-	Not-detected	Not-detected	-	-	-	-	
Anthophyllite detected	Type	N/A	ISO 17025		-	Not-detected	-	-	-	Not-detected	Not-detected	-	-	-	-	
Chrysotile detected	Type	N/A	ISO 17025		-	Detected	-	-	-	Detected	Detected	-	-	-	-	
Crocidolite detected	Type	N/A	ISO 17025		-	Not-detected	-	-	-	Not-detected	Not-detected	-	-	-	-	
Tremolite detected	Type	N/A	ISO 17025		-	Not-detected	-	-	-	Not-detected	Not-detected	-	-	-	-	
Asbestos Containing Material Types Detected (ACM)	Type	N/A	ISO 17025		-	Loose Fibres	-	-	-	-	Loose Fibres	Loose Fibres	-	-	-	-
General Inorganics																
pH (L099)	pH Units	N/A	MCERTS	<5	7.8	8.4	11	8.2	7.5	10.4	8	7.9	8	8.1	8.1	
Electrical Conductivity	µS/cm	10	MCERTS	See report text	120	230	620	240	160	330	240	480	210	180	470	
Total Cyanide	mg/kg	1	MCERTS	-	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.2	
Free Cyanide	mg/kg	1	MCERTS	-	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Thiocyanate as SCN	mg/kg	5	NONE	-	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
Total Sulphate as SO ₄	mg/kg	50	MCERTS	2,400	120	1100	3300	1100	570	1700	1500	1300	540	590	1000	
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	-	36	220	230	180	50	89	82	770	92	170	540	
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.5	0.0178	0.111	0.117	0.0887	0.0252	0.0446	0.0412	0.384	0.046	0.0851	0.271	
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	-	17.8	111	117	88.7	25.2	44.6	41.2	384	46	85.1	271	
Total Potential Sulphate	mg/kg	30	NONE	-	-	-	-	-	-	2700	-	5400	-	-	3200	
Total Potential Sulphate	%	0.003	NONE	0.24 (DS1 of BRE SD1)	-	-	-	-	-	0.27	-	0.54	-	-	0.32	
Sulphide	mg/kg	1	MCERTS	-	< 1.0	1.6	73	5	2.3	8.4	16	42	15	5.3	5	
Total Sulphur	mg/kg	50	MCERTS	-	74	670	2200	980	410	900	1400	1800	480	570	1100	
Soil Organic Matter (automated)	%	0.1	MCERTS	-	1.3	4.9	5	9.5	3.9	3.2	3.9	2.6	3	6.2	2.7	
Total Organic Carbon (TOC) - Automated	%	0.1	MCERTS	-	0.7	2.8	2.9	5.5	2.3	1.9	2.3	1.5	1.7	3.6	1.6	
Redox Potential	mV	-800	NONE	See report text	191.7	231	239.8	232.6	240.3	242.3	241.4	194.4	193.9	181.9	172.4	
Total Phenols																
Total Phenols (monohydric)	mg/kg	1	MCERTS	200	120	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Project / Site name: Church Lane, Moston

				GAC (Residential with home-grown produce) mg/kg (1-6% SOM)												
Lab Sample Number				Residential with home-grown produce GAC @ 2.5% SOM (mg/kg) for organics in Made Ground*	Residential with home-grown produce GAC @ 1.0% SOM (mg/kg) for organics in Natural Strata*	342569	342570	347145	347146	342572	342573	342574	347148	347149	347151	347152
Sample Reference						CP2-ES1	CP2-ES4	CP3-ES1	CP3-ES2	CP4-ES1	CP4-ES2	CP4-ES4	CP5-ES1	CP5-ES3	CP6-ES1	CP6-ES3
Depth (m)						0.50	5.00	1.00	4.00	0.50	1.50	5.50	0.50	6.00	1.00	5.00
Date Sampled						03/10/2024	03/10/2024	09/10/2024	09/10/2024	02/10/2024	02/10/2024	02/10/2024	07/10/2024	07/10/2024	08/10/2024	08/10/2024
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status													
Stone Content	%	0.1	NONE	-	-	29.4	< 0.1	15.2	50.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	-	-	10	16	13	11	21	17	15	13	9.3	16	19
Total mass of sample received	kg	0.1	NONE	-	-	0.8	0.8	0.8	0.8	0.9	0.8	0.8	0.9	0.9	0.8	0.8
Asbestos																
Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	Presence	Not-detected	Not-detected	Detected	Not-detected	Detected	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A		MBI	MBI	MMI	MMI	MBI	MBI	EWS	MMI	MMI	MMI	MMI	MMI
Actinolite detected	Type	N/A	ISO 17025		-	-	Not-detected	-	Not-detected	-	-	-	-	-	-	-
Amosite detected	Type	N/A	ISO 17025		-	-	Not-detected	-	Not-detected	-	-	-	-	-	-	-
Anthophyllite detected	Type	N/A	ISO 17025		-	-	Not-detected	-	Not-detected	-	-	-	-	-	-	-
Chrysotile detected	Type	N/A	ISO 17025		-	-	Detected	-	Detected	-	-	-	-	-	-	-
Crocidolite detected	Type	N/A	ISO 17025		-	-	Not-detected	-	Not-detected	-	-	-	-	-	-	-
Tremolite detected	Type	N/A	ISO 17025		-	-	Not-detected	-	Not-detected	-	-	-	-	-	-	-
Asbestos Containing Material Types Detected (ACM)	Type	N/A	ISO 17025		-	-	Loose Fibres	-	Loose Fibres	-	-	-	-	-	-	-
General Inorganics																
pH (L099)	pH Units	N/A	MCERTS	<5	11.8	8.6	9	7.8	8.1	9	7.7	8.5	9.3	8.4	7.9	
Electrical Conductivity	µS/cm	10	MCERTS	See report text	2100	1100	230	1100	260	430	1700	280	230	390	620	
Total Cyanide	mg/kg	1	MCERTS	-	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.9	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Free Cyanide	mg/kg	1	MCERTS	-	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Thiocyanate as SCN	mg/kg	5	NONE	-	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
Total Sulphate as SO ₄	mg/kg	50	MCERTS	2,400	2400	3300	710	4500	1000	1400	4400	560	520	810	1100	
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	-	83	2200	270	3700	98	750	3800	280	250	350	180	
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.5	0.0416	1.08	0.137	1.86	0.0488	0.377	1.9	0.14	0.124	0.173	0.0918	
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	-	41.6	1080	137	1860	48.8	377	1900	140	124	173	91.8	
Total Potential Sulphate	mg/kg	30	NONE	-	3100	-	1200	-	-	5700	-	-	-	1600	-	
Total Potential Sulphate	%	0.003	NONE	0.24 (DS1 of BRE SD1)	0.31	-	0.12	-	-	0.57	-	-	-	0.16	-	
Sulphide	mg/kg	1	MCERTS	-	12	5.9	4.4	32	7	49	5	3.6	< 1.0	4.9	20	
Total Sulphur	mg/kg	50	MCERTS	-	1000	3400	400	2100	810	1900	2100	440	260	550	790	
Soil Organic Matter (automated)	%	0.1	MCERTS	-	1.5	3.2	1.6	2	4.8	1.8	2.8	2.9	0.2	1.3	2.4	
Total Organic Carbon (TOC) - Automated	%	0.1	MCERTS	-	0.8	1.8	1	1.1	2.8	1.1	1.6	1.7	0.1	0.7	1.4	
Redox Potential	mV	-800	NONE	See report text	188.6	228.2	175.3	175.5	222.1	234.8	226	172.4	171.3	162.6	179.6	
Total Phenols																
Total Phenols (monohydric)	mg/kg	1	MCERTS	200	120	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Project / Site name: Church Lane, Moston

				GAC (Residential with home-grown produce) mg/kg (1-6% SOM)		Natural Strata									
Lab Sample Number				Residential with home-grown produce GAC @ 2.5% SOM (mg/kg) for organics in Made Ground*	Residential with home-grown produce GAC @ 1.0% SOM (mg/kg) for organics in Natural Strata*	342557	342559	342561	342563	347144	342571	347147	342575	347150	347153
Sample Reference						BH1-ES3	BH2-ES2	BH3-ES2	BH4-ES2	CP1-ES3	CP2-ES5	CP3-ES3	CP4-ES5	CP5-ES4	CP6-ES4
Depth (m)						1.50	1.50	2.00	1.50	8.90	11.50	10.00	9.50	9.30	10.50
Date Sampled						04/10/2024	04/10/2024	04/10/2024	04/10/2024	10/10/2024	03/10/2024	09/10/2024	02/10/2024	07/10/2024	08/10/2024
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status												
Stone Content	%	0.1	NONE	-	-	< 0.1	< 0.1	< 0.1	< 0.1	54.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	-	-	13	10	14	17	10	19	14	13	10	17
Total mass of sample received	kg	0.1	NONE	-	-	0.8	0.8	0.8	0.8	0.9	0.9	0.9	0.8	0.9	0.8
Asbestos															
Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	Presence	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A		DKI	DKI	DKI	DKI	MMI	MBI	MMI	EWS	MMI	DSO	
Actinolite detected	Type	N/A	ISO 17025		-	-	-	-	-	-	-	-	-	-	-
Amosite detected	Type	N/A	ISO 17025		-	-	-	-	-	-	-	-	-	-	-
Anthophyllite detected	Type	N/A	ISO 17025		-	-	-	-	-	-	-	-	-	-	-
Chrysotile detected	Type	N/A	ISO 17025		-	-	-	-	-	-	-	-	-	-	-
Crocidolite detected	Type	N/A	ISO 17025		-	-	-	-	-	-	-	-	-	-	-
Tremolite detected	Type	N/A	ISO 17025		-	-	-	-	-	-	-	-	-	-	-
Asbestos Containing Material Types Detected (ACM)	Type	N/A	ISO 17025		-	-	-	-	-	-	-	-	-	-	-
General Inorganics															
pH (L099)	pH Units	N/A	MCERTS	<5	8.2	7.3	7.9	7.8	7.3	7.1	8	8.1	8.2	7.3	
Electrical Conductivity	µS/cm	10	MCERTS	See report text	200	400	110	110	270	310	290	330	220	240	
Total Cyanide	mg/kg	1	MCERTS	-	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Free Cyanide	mg/kg	1	MCERTS	-	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Thiocyanate as SCN	mg/kg	5	NONE	-	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
Total Sulphate as SO ₄	mg/kg	50	MCERTS	2,400	200	450	170	210	380	350	330	380	270	270	
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	-	81	390	33	26	240	290	220	260	100	210	
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.5	0.0404	0.195	0.0167	0.013	0.12	0.143	0.108	0.132	0.05	0.107	
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	-	40.4	195	16.7	13	120	143	108	132	50	107	
Total Potential Sulphate	mg/kg	30	NONE	-	380	-	260	230	1300	2200	570	980	-	790	
Total Potential Sulphate	%	0.003	NONE	0.24 (DS1 of BRE SD1)	0.038	-	0.026	0.023	0.13	0.22	0.057	0.098	-	0.079	
Sulphide	mg/kg	1	MCERTS	-	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	6.4	< 1.0	5.8	< 1.0	7.2	
Total Sulphur	mg/kg	50	MCERTS	-	130	230	88	77	430	740	190	330	280	260	
Soil Organic Matter (automated)	%	0.1	MCERTS	-	1.4	1.3	1.6	0.6	0.7	2.3	1.3	1.4	1.3	1.7	
Total Organic Carbon (TOC) - Automated	%	0.1	MCERTS	-	0.8	0.8	0.9	0.3	0.4	1.3	0.7	0.8	0.8	1	
Redox Potential	mV	-800	NONE	See report text	219	230.4	229.2	235.9	169.7	225.7	173.3	230.6	171.1	170.4	
Total Phenols															
Total Phenols (monohydric)	mg/kg	1	MCERTS	200	120	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

				GAC (Residential with home-grown produce) mg/kg (1-6% SOM)		Made Ground										
Lab Sample Number				Residential with home-grown produce GAC @ 2.5% SOM (mg/kg) for organics in Made Ground*	Residential with home-grown produce GAC @ 1.0% SOM (mg/kg) for organics in Natural Strata*	342556	342558	342560	342562	342564	342565	342566	342567	342568	347142	347143
Sample Reference						BH1-ES2	BH2-ES1	BH3-ES1	BH4-ES1	BH5-ES1	BH5-ES2	BH6-ES1	BH6-ES2	BH7-ES1	CP1-ES1	CP1-ES2
Depth (m)						0.50	0.50	0.50	0.50	1.00	2.00	0.50	1.50	0.50	1.00	4.00
Date Sampled						04/10/2024	04/10/2024	04/10/2024	04/10/2024	04/10/2024	04/10/2024	04/10/2024	04/10/2024	04/10/2024	04/10/2024	10/10/2024
Analytical Parameter (Soil Analysis)		Units	Test Limit of detection	Test Accreditation Status												
Speciated PAHs																
Naphthalene	mg/kg	0.05	MCERTS	2.3	1	< 0.05	0.72	2	22	0.09	0.37	0.35	0.09	4.1	5.4	0.61
Acenaphthylene	mg/kg	0.05	MCERTS	400	170	< 0.05	0.52	0.57	5.8	< 0.05	0.06	0.07	< 0.05	0.25	0.74	0.11
Acenaphthene	mg/kg	0.05	MCERTS	490	200	< 0.05	1.4	15	32	0.27	0.44	0.58	0.17	7.5	30	1.2
Fluorene	mg/kg	0.05	MCERTS	390	165	< 0.05	1.3	9.4	28	0.18	0.27	0.47	0.16	5.5	20	1.2
Phenanthrene	mg/kg	0.05	MCERTS	220	95	< 0.05	14	78	230	2.1	4.4	3.9	1.3	40	190	8.6
Anthracene	mg/kg	0.05	MCERTS	5,400	2,300	< 0.05	3.6	23	61	0.48	0.58	0.99	0.35	9.6	48	2.3
Fluoranthene	mg/kg	0.05	MCERTS	560	280	< 0.05	27	150	230	3.4	6.4	4.6	2.7	50	240	11
Pyrene	mg/kg	0.05	MCERTS	1,200	620	< 0.05	25	120	210	3.1	5.6	4.4	2.6	48	210	9.7
Benzo(a)anthracene	mg/kg	0.05	MCERTS	11	7.5	< 0.05	13	63	98	1.7	2.4	2.4	1.4	26	95	4.3
Chrysene	mg/kg	0.05	MCERTS	22	15	< 0.05	13	66	110	1.8	2.8	2.6	1.4	27	98	4.5
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	3.3	2.6	< 0.05	15	82	110	2.1	3.5	2.8	1.6	30	94	4.8
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	93	77	< 0.05	4.8	29	40	0.8	1.3	1.2	0.67	14	34	1.9
Benzo(a)pyrene	mg/kg	0.05	MCERTS	2.7	2.2	< 0.05	13	67	100	1.8	2.7	2.8	1.4	30	92	4.4
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	36	27	< 0.05	4.9	33	47	0.83	1.4	1.3	0.65	13	36	1.7
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	0.28	0.24	< 0.05	1.2	6.1	12	0.19	0.38	0.34	0.13	3.1	9.4	0.42
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	340	315	< 0.05	6.1	36	57	0.96	1.6	1.7	0.76	19	41	1.8
Total PAH																
Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	-	-	< 0.80	144	780	1400	19.8	34.2	30.4	15.3	326	1240	58.4
Metals / Metalloids																
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	37		7.2	37	21	24	23	28	94	14	17	16	14
Barium (aqua regia extractable)	mg/kg	1	MCERTS	1,300		130	720	520	440	220	640	270	260	240	360	270
Boron (water soluble)	mg/kg	0.2	MCERTS	290		0.4	0.8	0.7	1.5	0.7	0.6	0.9	2	0.6	0.8	1.1
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	22		< 0.2	1.1	0.9	1.4	0.9	2.2	12	0.7	0.5	1.4	0.4
Chromium (hexavalent)	mg/kg	1.8	MCERTS	21		< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	910		25	32	27	26	42	30	42	26	26	23	26
Copper (aqua regia extractable)	mg/kg	1	MCERTS	2,400		21	120	120	130	80	100	2000	80	76	170	44
Lead (aqua regia extractable)	mg/kg	1	MCERTS	200		12	500	300	430	170	810	590	230	110	160	260
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	40		< 0.3	0.6	0.5	0.4	< 0.3	0.6	3	< 0.3	< 0.3	0.4	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	130		38	35	27	29	29	34	43	24	27	27	27
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	250		< 1.0	1.2	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.1	1.4	< 1.0	< 1.0
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	3,700		60	250	260	310	210	870	750	150	110	200	200
Petroleum Hydrocarbons																
TPHCWG - Aliphatic >EC5 - EC6 _{HS_1D_AL}	mg/kg	0.01	MCERTS	40	24	-	-	< 0.010	< 0.010	-	< 0.010	-	< 0.010	< 0.010	-	< 0.010
TPHCWG - Aliphatic >EC6 - EC8 _{HS_1D_AL}	mg/kg	0.01	MCERTS	110	52	-	-	< 0.010	< 0.010	-	< 0.010	-	< 0.010	< 0.010	-	< 0.010
TPHCWG - Aliphatic >EC8 - EC10 _{HS_1D_AL}	mg/kg	0.01	MCERTS	30	13	-	-	< 0.010	< 0.010	-	< 0.010	-	< 0.010	< 0.010	-	< 0.010
TPHCWG - Aliphatic >EC10 - EC12 _{EH_CU_1D_AL}	mg/kg	1	MCERTS	150	60	-	-	4.6	3.8	-	< 1.0	-	< 1.0	2.9	-	< 1.0
TPHCWG - Aliphatic >EC12 - EC16 _{EH_CU_1D_AL}	mg/kg	2	MCERTS	1,200	500	-	-	30	17	-	< 2.0	-	< 2.0	9.3	-	2.7
TPHCWG - Aliphatic >EC16 - EC21 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	69,000	41,000	-	-	46	32	-	< 8.0	-	13	12	-	< 8.0
TPHCWG - Aliphatic >EC16 - EC35 _{EH_CU_1D_AL}	mg/kg	10	MCERTS			-	-	280	200	-	56	-	140	49	-	10
TPHCWG - Aliphatic >EC21 - EC35 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	-	-	-	-	240	170	-	56	-	130	37	-	10
TPHCWG - Aliphatic >EC35 - EC44 _{EH_CU_1D_AL}	mg/kg	8.4	NONE	69,000	41,000	-	-	87	84	-	21	-	39	8.8	-	< 8.4
TPHCWG - Aliphatic >EC5 - EC35 _{EH_CU+HS_1D_AL}	mg/kg	10	NONE	-	-	-	-	320	220	-	56	-	140	61	-	13
TPHCWG - Aliphatic >EC5 - EC44 _{EH_CU+HS_1D_AL}	mg/kg	10	NONE	-	-	-	-	400	310	-	77	-	180	70	-	13
TPHCWG - Aromatic >EC5 - EC7 _{HS_1D_AR}	mg/kg	0.01	MCERTS	110	50	-	-	< 0.010	< 0.010	-	< 0.010	-	< 0.010	< 0.010	-	< 0.010
TPHCWG - Aromatic >EC7 - EC8 _{HS_1D_AR}	mg/kg	0.01	MCERTS	240	100	-	-	< 0.010	< 0.010	-	< 0.010	-	< 0.010	< 0.010	-	< 0.010
TPHCWG - Aromatic >EC8 - EC10 _{HS_1D_AR}	mg/kg	0.02	MCERTS	50	20	-	-	< 0.020	< 0.020	-	< 0.020	-	< 0.020	< 0.020	-	< 0.020
TPHCWG - Aromatic >EC10 - EC12 _{EH_CU_1D_AR}	mg/kg	1	MCERTS	150	63	-	-	6.6	23	-	< 1.0	-	< 1.0	9.2	-	< 1.0
TPHCWG - Aromatic >EC12 - EC16 _{EH_CU_1D_AR}	mg/kg	2	MCERTS	320	140	-	-	140	180	-	8.1	-	17	66	-	6.2

				GAC (Residential with home-grown produce) mg/kg (1-6% SOM)												
Lab Sample Number				Residential with home-grown produce GAC @ 2.5% SOM (mg/kg) for organics in Made Ground*	Residential with home-grown produce GAC @ 1.0% SOM (mg/kg) for organics in Natural Strata*	342569	342570	347145	347146	342572	342573	342574	347148	347149	347151	347152
Sample Reference						CP2-ES1	CP2-ES4	CP3-ES1	CP3-ES2	CP4-ES1	CP4-ES2	CP4-ES4	CP5-ES1	CP5-ES3	CP6-ES1	CP6-ES3
Depth (m)						0.50	5.00	1.00	4.00	0.50	1.50	5.50	0.50	6.00	1.00	5.00
Date Sampled						03/10/2024	03/10/2024	09/10/2024	09/10/2024	02/10/2024	02/10/2024	02/10/2024	07/10/2024	07/10/2024	08/10/2024	08/10/2024
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status													
Speciated PAHs																
Naphthalene	mg/kg	0.05	MCERTS	2.3	1	0.14	0.99	0.67	0.8	0.74	0.53	25	0.48	< 0.05	0.23	0.3
Acenaphthylene	mg/kg	0.05	MCERTS	400	170	< 0.05	0.26	0.1	0.06	< 0.05	< 0.05	0.59	0.2	< 0.05	< 0.05	0.08
Acenaphthene	mg/kg	0.05	MCERTS	490	200	0.28	4	1.1	1.5	0.59	1	27	1.7	< 0.05	0.35	0.68
Fluorene	mg/kg	0.05	MCERTS	390	165	0.21	4.3	0.95	1.2	0.54	0.77	23	1.4	< 0.05	0.34	0.46
Phenanthrene	mg/kg	0.05	MCERTS	220	95	2.6	18	6.8	9.1	4.8	3.6	170	13	0.3	3.6	3.6
Anthracene	mg/kg	0.05	MCERTS	5,400	2,300	0.75	5.9	1.5	2.5	1.5	1.1	31	3.6	< 0.05	0.98	0.99
Fluoranthene	mg/kg	0.05	MCERTS	560	280	5.4	18	8.3	12	7.1	5.2	160	20	0.41	6	6.7
Pyrene	mg/kg	0.05	MCERTS	1,200	620	4.8	14	8.2	11	6.7	4.7	140	17	0.38	5.4	6.1
Benzo(a)anthracene	mg/kg	0.05	MCERTS	11	7.5	2.6	7.8	3.5	5.2	3.5	2.3	49	8.2	0.18	2.3	2.9
Chrysene	mg/kg	0.05	MCERTS	22	15	2.7	7.3	3.7	5.5	3.9	2.4	44	8.2	0.21	2.4	3.2
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	3.3	2.6	3.4	7.9	4.1	6.4	4.3	2.8	53	9.7	0.23	2.8	3.7
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	93	77	1.4	3.3	1.4	2.6	1.5	1.2	18	4.7	0.11	0.88	1.7
Benzo(a)pyrene	mg/kg	0.05	MCERTS	2.7	2.2	2.9	7.2	3.5	5.9	3.6	2.4	45	9.4	0.2	2.3	3.5
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	36	27	1.5	3.4	1.7	2.4	2	1.2	21	3.8	0.13	1.1	1.5
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	0.28	0.24	0.29	0.76	0.4	0.52	0.44	0.25	4.4	0.79	< 0.05	0.21	0.33
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	340	315	1.7	3.9	1.9	2.5	2.1	1.3	24	3.8	0.15	1.4	1.6
Total PAH																
Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	-	-	30.6	107	47.9	69.1	43.1	30.8	837	106	2.3	30.2	37.3
Metals / Metalloids																
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	37		10	23	13	34	14	15	16	11	12	16	15
Barium (aqua regia extractable)	mg/kg	1	MCERTS	1,300		190	350	280	430	340	220	260	140	170	170	220
Boron (water soluble)	mg/kg	0.2	MCERTS	290		1.2	1.9	0.5	1.1	0.3	1.1	1.4	0.9	0.6	0.9	1.9
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	22		0.9	1.6	1.1	3.5	1.3	1.2	1.6	0.5	< 0.2	0.4	0.4
Chromium (hexavalent)	mg/kg	1.8	MCERTS	21		< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	910		24	36	20	29	25	22	26	20	20	30	24
Copper (aqua regia extractable)	mg/kg	1	MCERTS	2,400		170	180	120	110	190	39	95	48	6.7	34	46
Lead (aqua regia extractable)	mg/kg	1	MCERTS	200		150	400	430	130	150	69	230	79	18	74	210
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	40		< 0.3	0.4	2.2	1	< 0.3	< 0.3	0.6	< 0.3	0.6	< 0.3	0.5
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	130		18	32	18	31	23	21	27	16	18	27	25
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	250		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.2
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	3,700		160	760	150	170	230	140	200	100	39	99	120
Petroleum Hydrocarbons																
TPHCWG - Aliphatic >EC5 - EC6 _{HS_1D_AL}	mg/kg	0.01	MCERTS	40	24	< 0.010	< 0.010	< 0.010	< 0.010	-	< 0.010	< 0.010	-	< 0.010	< 0.010	-
TPHCWG - Aliphatic >EC6 - EC8 _{HS_1D_AL}	mg/kg	0.01	MCERTS	110	52	< 0.010	< 0.010	< 0.010	< 0.010	-	< 0.010	< 0.010	-	< 0.010	< 0.010	-
TPHCWG - Aliphatic >EC8 - EC10 _{HS_1D_AL}	mg/kg	0.01	MCERTS	30	13	< 0.010	< 0.010	< 0.010	< 0.010	-	< 0.010	< 0.010	-	< 0.010	< 0.010	-
TPHCWG - Aliphatic >EC10 - EC12 _{EH_CU_1D_AL}	mg/kg	1	MCERTS	150	60	< 1.0	3.9	< 1.0	2.4	-	< 1.0	< 1.0	-	< 1.0	1.1	-
TPHCWG - Aliphatic >EC12 - EC16 _{EH_CU_1D_AL}	mg/kg	2	MCERTS	1,200	500	< 2.0	43	< 2.0	5.1	-	6.1	6.4	-	< 2.0	3.7	-
TPHCWG - Aliphatic >EC16 - EC21 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	69,000	41,000	< 8.0	150	< 8.0	< 8.0	-	24	12	-	< 8.0	< 8.0	-
TPHCWG - Aliphatic >EC16 - EC35 _{EH_CU_1D_AL}	mg/kg	10	MCERTS			22	730	< 10	17	-	85	56	-	< 10	12	-
TPHCWG - Aliphatic >EC21 - EC35 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	-	-	22	580	9.5	17	-	61	45	-	< 8.0	12	-
TPHCWG - Aliphatic >EC35 - EC44 _{EH_CU_1D_AL}	mg/kg	8.4	NONE	69,000	41,000	< 8.4	130	< 8.4	< 8.4	-	24	18	-	< 8.4	< 8.4	-
TPHCWG - Aliphatic >EC5 - EC35 _{EH_CU+HS_1D_AL}	mg/kg	10	NONE	-	-	22	780	< 10	25	-	91	63	-	< 10	17	-
TPHCWG - Aliphatic >EC5 - EC44 _{EH_CU+HS_1D_AL}	mg/kg	10	NONE	-	-	22	910	< 10	25	-	120	81	-	< 10	17	-
TPHCWG - Aromatic >EC5 - EC7 _{HS_1D_AR}	mg/kg	0.01	MCERTS	110	50	< 0.010	< 0.010	< 0.010	< 0.010	-	< 0.010	< 0.010	-	< 0.010	< 0.010	-
TPHCWG - Aromatic >EC7 - EC8 _{HS_1D_AR}	mg/kg	0.01	MCERTS	240	100	< 0.010	< 0.010	< 0.010	< 0.010	-	< 0.010	0.016	-	< 0.010	< 0.010	-
TPHCWG - Aromatic >EC8 - EC10 _{HS_1D_AR}	mg/kg	0.02	MCERTS	50	20	< 0.020	< 0.020	< 0.020	< 0.020	-	< 0.020	0.057	-	< 0.020	< 0.020	-
TPHCWG - Aromatic >EC10 - EC12 _{EH_CU_1D_AR}	mg/kg	1	MCERTS	150	63	< 1.0	1.5	< 1.0	1.6	-	< 1.0	17	-	< 1.0	< 1.0	-
TPHCWG - Aromatic >EC12 - EC16 _{EH_CU_1D_AR}	mg/kg	2	MCERTS	320	140	6	39	4.6	7	-	14	120	-	< 2.0	4.1	-

				GAC (Residential with home-grown produce) mg/kg (1-6% SOM)		Natural Strata												
Lab Sample Number				Residential with home-grown produce GAC @ 2.5% SOM (mg/kg) for organics in Made Ground*	Residential with home-grown produce GAC @ 1.0% SOM (mg/kg) for organics in Natural Strata*	342557	342559	342561	342563	347144	342571	347147	342575	347150	347153			
Sample Reference						BH1-ES3	BH2-ES2	BH3-ES2	BH4-ES2	CP1-ES3	CP2-ES5	CP3-ES3	CP4-ES5	CP5-ES4	CP6-ES4			
Depth (m)						1.50	1.50	2.00	1.50	8.90	11.50	10.00	9.50	9.30	10.50			
Date Sampled						04/10/2024	04/10/2024	04/10/2024	04/10/2024	10/10/2024	03/10/2024	09/10/2024	02/10/2024	07/10/2024	08/10/2024			
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status															
Speciated PAHs																		
Naphthalene	mg/kg	0.05	MCERTS	2.3	1	< 0.05	< 0.05	0.25	< 0.05	0.15	1.2	0.16	0.2	0.17	0.09			
Acenaphthylene	mg/kg	0.05	MCERTS	400	170	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			
Acenaphthene	mg/kg	0.05	MCERTS	490	200	< 0.05	< 0.05	0.17	< 0.05	0.06	1.7	< 0.05	0.34	< 0.05	0.08			
Fluorene	mg/kg	0.05	MCERTS	390	165	< 0.05	< 0.05	0.11	< 0.05	< 0.05	1.1	< 0.05	0.3	< 0.05	0.06			
Phenanthrene	mg/kg	0.05	MCERTS	220	95	0.1	< 0.05	0.84	< 0.05	0.33	6.8	0.27	1.9	0.17	0.39			
Anthracene	mg/kg	0.05	MCERTS	5,400	2,300	< 0.05	< 0.05	0.17	< 0.05	0.08	1.9	0.06	0.53	< 0.05	0.08			
Fluoranthene	mg/kg	0.05	MCERTS	560	280	0.17	< 0.05	0.72	< 0.05	0.32	7.3	0.37	2.1	0.12	0.53			
Pyrene	mg/kg	0.05	MCERTS	1,200	620	0.17	< 0.05	0.66	< 0.05	0.3	6.2	0.33	1.8	0.1	0.48			
Benzo(a)anthracene	mg/kg	0.05	MCERTS	11	7.5	0.07	< 0.05	0.24	< 0.05	0.13	3	0.15	0.99	< 0.05	0.23			
Chrysene	mg/kg	0.05	MCERTS	22	15	0.13	< 0.05	0.34	< 0.05	0.16	3.3	0.19	0.84	0.08	0.27			
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	3.3	2.6	0.09	< 0.05	0.25	< 0.05	0.16	3.2	0.19	1	< 0.05	0.31			
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	93	77	< 0.05	< 0.05	0.1	< 0.05	0.06	1.4	0.09	0.43	< 0.05	0.14			
Benzo(a)pyrene	mg/kg	0.05	MCERTS	2.7	2.2	0.06	< 0.05	0.2	< 0.05	0.09	2.9	0.15	0.9	< 0.05	0.28			
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	36	27	0.08	< 0.05	0.12	< 0.05	0.37	1.4	0.09	0.43	< 0.05	0.11			
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	0.28	0.24	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	0.23	< 0.05	0.1	< 0.05	< 0.05			
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	340	315	0.1	< 0.05	0.15	< 0.05	0.46	1.5	0.09	0.51	< 0.05	0.12			
Total PAH																		
Speciated Total EPA-16 PAHs				mg/kg	0.8	ISO 17025	-	-	0.99	< 0.80	4.32	< 0.80	2.68	42.9	2.12	12.4	< 0.80	3.16
Metals / Metalloids																		
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	37		6.7	9.4	8.9	9.6	7.4	15	8.3	8.4	6.4	6.9			
Barium (aqua regia extractable)	mg/kg	1	MCERTS	1,300		130	210	230	61	150	130	160	180	190	69			
Boron (water soluble)	mg/kg	0.2	MCERTS	290		0.5	0.6	0.7	0.5	0.5	1.4	0.6	0.9	0.6	1.6			
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	22		0.3	0.3	< 0.2	< 0.2	0.6	0.3	0.3	0.3	0.2	0.3			
Chromium (hexavalent)	mg/kg	1.8	MCERTS	21		< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8			
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	910		27	32	28	31	31	23	26	25	21	17			
Copper (aqua regia extractable)	mg/kg	1	MCERTS	2,400		25	25	27	11	12	33	25	32	21	12			
Lead (aqua regia extractable)	mg/kg	1	MCERTS	200		15	15	15	13	19	42	14	38	14	23			
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	40		< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3			
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	130		32	56	35	17	29	27	30	32	26	16			
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	250		< 1.0	< 1.0	< 1.0	< 1.0	1.9	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0			
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	3,700		65	75	67	43	88	95	58	92	55	48			
Petroleum Hydrocarbons																		
TPHCWG - Aliphatic >EC5 - EC6 _{HS_1D_AL}	mg/kg	0.01	MCERTS	40	24	< 0.010	-	< 0.010	< 0.010	-	-	-	-	-	-			
TPHCWG - Aliphatic >EC6 - EC8 _{HS_1D_AL}	mg/kg	0.01	MCERTS	110	52	< 0.010	-	< 0.010	< 0.010	-	-	-	-	-	-			
TPHCWG - Aliphatic >EC8 - EC10 _{HS_1D_AL}	mg/kg	0.01	MCERTS	30	13	< 0.010	-	< 0.010	< 0.010	-	-	-	-	-	-			
TPHCWG - Aliphatic >EC10 - EC12 _{EH_CU_1D_AL}	mg/kg	1	MCERTS	150	60	< 1.0	-	< 1.0	< 1.0	-	-	-	-	-	-			
TPHCWG - Aliphatic >EC12 - EC16 _{EH_CU_1D_AL}	mg/kg	2	MCERTS	1,200	500	< 2.0	-	< 2.0	< 2.0	-	-	-	-	-	-			
TPHCWG - Aliphatic >EC16 - EC21 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	69,000	41,000	< 8.0	-	< 8.0	< 8.0	-	-	-	-	-	-			
TPHCWG - Aliphatic >EC16 - EC35 _{EH_CU_1D_AL}	mg/kg	10	MCERTS			< 10	-	< 10	< 10	-	-	-	-	-	-	-		
TPHCWG - Aliphatic >EC21 - EC35 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	-	-	< 8.0	-	< 8.0	< 8.0	-	-	-	-	-	-			
TPHCWG - Aliphatic >EC35 - EC44 _{EH_CU_1D_AL}	mg/kg	8.4	NONE	69,000	41,000	< 8.4	-	< 8.4	< 8.4	-	-	-	-	-	-			
TPHCWG - Aliphatic >EC5 - EC35 _{EH_CU+HS_1D_AL}	mg/kg	10	NONE	-	-	< 10	-	< 10	< 10	-	-	-	-	-	-			
TPHCWG - Aliphatic >EC5 - EC44 _{EH_CU+HS_1D_AL}	mg/kg	10	NONE	-	-	< 10	-	< 10	< 10	-	-	-	-	-	-			
TPHCWG - Aromatic >EC5 - EC7 _{HS_1D_AR}	mg/kg	0.01	MCERTS	110	50	< 0.010	-	< 0.010	< 0.010	-	-	-	-	-	-			
TPHCWG - Aromatic >EC7 - EC8 _{HS_1D_AR}	mg/kg	0.01	MCERTS	240	100	< 0.010	-	< 0.010	< 0.010	-	-	-	-	-	-			
TPHCWG - Aromatic >EC8 - EC10 _{HS_1D_AR}	mg/kg	0.02	MCERTS	50	20	< 0.020	-	< 0.020	< 0.020	-	-	-	-	-	-			
TPHCWG - Aromatic >EC10 - EC12 _{EH_CU_1D_AR}	mg/kg	1	MCERTS	150	63	< 1.0	-	< 1.0	< 1.0	-	-	-	-	-	-			
TPHCWG - Aromatic >EC12 - EC16 _{EH_CU_1D_AR}	mg/kg	2	MCERTS	320	140	< 2.0	-	6	< 2.0	-	-	-	-	-	-			

				GAC (Residential with home-grown produce) mg/kg (1-6% SOM)		Made Ground											
Lab Sample Number				Residential with home-grown produce GAC @ 2.5% SOM (mg/kg) for organics in Made Ground*	Residential with home-grown produce GAC @ 1.0% SOM (mg/kg) for organics in Natural Strata*	342556	342558	342560	342562	342564	342565	342566	342567	342568	347142	347143	
Sample Reference						BH1-ES2	BH2-ES1	BH3-ES1	BH4-ES1	BH5-ES1	BH5-ES2	BH6-ES1	BH6-ES2	BH7-ES1	CP1-ES1	CP1-ES2	
Depth (m)						0.50	0.50	0.50	0.50	1.00	2.00	0.50	1.50	0.50	1.00	4.00	
Date Sampled						04/10/2024	04/10/2024	04/10/2024	04/10/2024	04/10/2024	04/10/2024	04/10/2024	04/10/2024	04/10/2024	04/10/2024	10/10/2024	10/10/2024
Analytical Parameter (Soil Analysis)		Units	Test Limit of detection	Test Accreditation Status													
TPHCWG - Aromatic >EC16 - EC21 EH_CU_1D_AR		mg/kg	10	MCERTS	540	260	-	-	810	830	-	29	-	42	240	-	25
TPHCWG - Aromatic >EC21 - EC35 EH_CU_1D_AR		mg/kg	10	MCERTS	1,400	1,100	-	-	1700	1200	-	63	-	160	300	-	27
TPHCWG - Aromatic >EC35 - EC44 EH_CU_1D_AR		mg/kg	8.4	NONE	1,400	1,100	-	-	400	310	-	28	-	70	43	-	< 8.4
TPHCWG - Aromatic >EC5 - EC35 EH_CU+HS_1D_AR		mg/kg	10	NONE	-	-	-	-	2700	2200	-	100	-	210	620	-	58
TPHCWG - Aromatic >EC5 - EC44 EH_CU+HS_1D_AR		mg/kg	10	NONE	-	-	-	-	3000	2600	-	130	-	280	660	-	58
VOCs																	
Chloromethane		mg/kg	0.005	MCERTS	-	-	-	-	-	-	-	<0.005	-	<0.005	-	-	-
Chloroethane		mg/kg	0.005	MCERTS	-	-	-	-	-	-	-	<0.005	-	<0.005	-	-	-
Bromomethane		mg/kg	0.005	MCERTS	-	-	-	-	-	-	-	<0.005	-	<0.005	-	-	-
Vinyl Chloride		mg/kg	0.005	NONE	-	-	-	-	-	-	-	<0.005	-	<0.005	-	-	-
Trichlorofluoromethane		mg/kg	0.005	MCERTS	-	-	-	-	-	-	-	<0.005	-	<0.005	-	-	-
1,1-Dichloroethene		mg/kg	0.005	MCERTS	-	-	-	-	-	-	-	<0.005	-	<0.005	-	-	-
1,1,2-Trichloro 1,2,2-Trifluoroethane		mg/kg	0.005	MCERTS	-	-	-	-	-	-	-	<0.005	-	<0.005	-	-	-
Trans 1,2-dichloroethylene		mg/kg	0.005	MCERTS	-	-	-	-	-	-	-	<0.005	-	<0.005	-	-	-
MTBE (Methyl Tertiary Butyl Ether)		mg/kg	0.005	MCERTS	-	-	-	-	<0.005	<0.005	-	<0.005	-	<0.005	<0.005	-	<0.005
1,1-Dichloroethane		mg/kg	0.005	MCERTS	-	-	-	-	-	-	-	<0.005	-	<0.005	-	-	-
2,2-Dichloropropane		mg/kg	0.005	NONE	-	-	-	-	-	-	-	<0.005	-	<0.005	-	-	-
Chloroform		mg/kg	0.005	MCERTS	-	-	-	-	-	-	-	<0.005	-	<0.005	-	-	-
1,1,1-Trichloroethane		mg/kg	0.005	MCERTS	-	-	-	-	-	-	-	<0.005	-	<0.005	-	-	-
1,2-Dichloroethane		mg/kg	0.007	MCERTS	-	-	-	-	-	-	-	<0.007	-	<0.007	-	-	-
1,1-Dichloropropene		mg/kg	0.005	MCERTS	-	-	-	-	-	-	-	<0.005	-	<0.005	-	-	-
Cis-1,2-dichloroethene		mg/kg	0.005	MCERTS	-	-	-	-	-	-	-	<0.005	-	<0.005	-	-	-
Benzene		mg/kg	0.005	MCERTS	0.13	0.06	-	-	<0.005	<0.005	-	<0.005	-	<0.005	<0.005	-	<0.005
Carbontetrachloride		mg/kg	0.005	MCERTS	-	-	-	-	-	-	-	<0.005	-	<0.005	-	-	-
1,2-Dichloropropane		mg/kg	0.006	MCERTS	-	-	-	-	-	-	-	<0.006	-	<0.006	-	-	-
Trichloroethene		mg/kg	0.01	MCERTS	-	-	-	-	-	-	-	<0.01	-	<0.01	-	-	-
Dibromomethane		mg/kg	0.005	MCERTS	-	-	-	-	-	-	-	<0.005	-	<0.005	-	-	-
Bromodichloromethane		mg/kg	0.005	MCERTS	-	-	-	-	-	-	-	<0.005	-	<0.005	-	-	-
Cis-1,3-dichloropropene		mg/kg	0.005	MCERTS	-	-	-	-	-	-	-	<0.005	-	<0.005	-	-	-
Trans-1,3-dichloropropene		mg/kg	0.01	MCERTS	-	-	-	-	-	-	-	<0.01	-	<0.01	-	-	-
Toluene		mg/kg	0.005	MCERTS	240	104	-	-	<0.005	<0.005	-	<0.005	-	<0.005	<0.005	-	<0.005
1,1,2-Trichloroethane		mg/kg	0.006	MCERTS	-	-	-	-	-	-	-	<0.006	-	<0.006	-	-	-
1,3-Dichloropropane		mg/kg	0.005	MCERTS	-	-	-	-	-	-	-	<0.005	-	<0.005	-	-	-
Dibromochloromethane		mg/kg	0.005	MCERTS	-	-	-	-	-	-	-	<0.005	-	<0.005	-	-	-
Tetrachloroethene		mg/kg	0.005	MCERTS	-	-	-	-	-	-	-	<0.005	-	<0.005	-	-	-
1,2-Dibromoethane		mg/kg	0.005	MCERTS	-	-	-	-	-	-	-	<0.005	-	<0.005	-	-	-
Chlorobenzene		mg/kg	0.005	MCERTS	-	-	-	-	-	-	-	<0.005	-	<0.005	-	-	-
1,1,1,2-Tetrachloroethane		mg/kg	0.005	MCERTS	-	-	-	-	-	-	-	<0.005	-	<0.005	-	-	-
Ethylbenzene		mg/kg	0.005	MCERTS	62	30	-	-	<0.005	<0.005	-	<0.005	-	<0.005	<0.005	-	<0.005
p & m-Xylene		mg/kg	0.008	MCERTS	70	30	-	-	<0.008	<0.008	-	<0.008	-	<0.008	<0.008	-	<0.008
Styrene		mg/kg	0.005	MCERTS	-	-	-	-	-	-	-	<0.005	-	<0.005	-	-	-
Bromoform		mg/kg	0.005	MCERTS	-	-	-	-	-	-	-	<0.005	-	<0.005	-	-	-
o-Xylene		mg/kg	0.005	MCERTS	70	30	-	-	<0.005	<0.005	-	<0.005	-	<0.005	<0.005	-	<0.005
Isopropylbenzene		mg/kg	0.005	MCERTS	-	-	-	-	-	-	-	<0.005	-	<0.005	-	-	-
1,1,2,2-Tetrachloroethane		mg/kg	0.005	NONE	-	-	-	-	-	-	-	<0.005	-	<0.005	-	-	-
Bromobenzene		mg/kg	0.005	MCERTS	-	-	-	-	-	-	-	<0.005	-	<0.005	-	-	-
n-Propylbenzene		mg/kg	0.005	MCERTS	-	-	-	-	-	-	-	<0.005	-	<0.005	-	-	-
2-Chlorotoluene		mg/kg	0.005	MCERTS	-	-	-	-	-	-	-	<0.005	-	<0.005	-	-	-
4-Chlorotoluene		mg/kg	0.005	MCERTS	-	-	-	-	-	-	-	<0.005	-	<0.005	-	-	-
1,3,5-Trimethylbenzene		mg/kg	0.005	MCERTS	-	-	-	-	-	-	-	<0.005	-	<0.005	-	-	-
tert-Butylbenzene		mg/kg	0.005	MCERTS	-	-	-	-	-	-	-	<0.005	-	<0.005	-	-	-
1,2,4-Trimethylbenzene		mg/kg	0.005	MCERTS	-	-	-	-	-	-	-	<0.005	-	<0.005	-	-	-
sec-Butylbenzene		mg/kg	0.005	MCERTS	-	-	-	-	-	-	-	<0.005	-	<0.005	-	-	-
1,3-Dichlorobenzene		mg/kg	0.005	MCERTS	-	-	-	-	-	-	-	<0.005	-	<0.005	-	-	-

				GAC (Residential with home-grown produce) mg/kg (1-6% SOM)												
Lab Sample Number				Residential with home-grown produce GAC @ 2.5% SOM (mg/kg) for organics in Made Ground*	Residential with home-grown produce GAC @ 1.0% SOM (mg/kg) for organics in Natural Strata*	342569	342570	347145	347146	342572	342573	342574	347148	347149	347151	347152
Sample Reference						CP2-ES1	CP2-ES4	CP3-ES1	CP3-ES2	CP4-ES1	CP4-ES2	CP4-ES4	CP5-ES1	CP5-ES3	CP6-ES1	CP6-ES3
Depth (m)						0.50	5.00	1.00	4.00	0.50	1.50	5.50	0.50	6.00	1.00	5.00
Date Sampled						03/10/2024	03/10/2024	09/10/2024	09/10/2024	02/10/2024	02/10/2024	02/10/2024	07/10/2024	07/10/2024	08/10/2024	08/10/2024
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status													
TPHCWG - Aromatic >EC16 - EC21 EH_CU_1D_AR	mg/kg	10	MCERTS	540	260	30	180	22	30	-	50	380	-	< 10	12	-
TPHCWG - Aromatic >EC21 - EC35 EH_CU_1D_AR	mg/kg	10	MCERTS	1,400	1,100	73	390	37	51	-	81	430	-	< 10	21	-
TPHCWG - Aromatic >EC35 - EC44 EH_CU_1D_AR	mg/kg	8.4	NONE	1,400	1,100	23	110	11	< 8.4	-	32	22	-	< 8.4	< 8.4	-
TPHCWG - Aromatic >EC5 - EC35 EH_CU+HS_1D_AR	mg/kg	10	NONE	-	-	110	610	64	89	-	150	940	-	< 10	38	-
TPHCWG - Aromatic >EC5 - EC44 EH_CU+HS_1D_AR	mg/kg	10	NONE	-	-	130	720	75	89	-	180	960	-	< 10	38	-
VOCs																
Chloromethane	mg/kg	0.005	MCERTS	-	-	<0.005	-	<0.005	-	-	<0.005	-	-	-	<0.005	-
Chloroethane	mg/kg	0.005	MCERTS	-	-	<0.005	-	<0.005	-	-	<0.005	-	-	-	<0.005	-
Bromomethane	mg/kg	0.005	MCERTS	-	-	<0.005	-	<0.005	-	-	<0.005	-	-	-	<0.005	-
Vinyl Chloride	mg/kg	0.005	NONE	-	-	<0.005	-	<0.005	-	-	<0.005	-	-	-	<0.005	-
Trichlorofluoromethane	mg/kg	0.005	MCERTS	-	-	<0.005	-	<0.005	-	-	<0.005	-	-	-	<0.005	-
1,1-Dichloroethene	mg/kg	0.005	MCERTS	-	-	<0.005	-	<0.005	-	-	<0.005	-	-	-	<0.005	-
1,1,2-Trichloro 1,2,2-Trifluoroethane	mg/kg	0.005	MCERTS	-	-	<0.005	-	<0.005	-	-	<0.005	-	-	-	<0.005	-
Trans 1,2-dichloroethylene	mg/kg	0.005	MCERTS	-	-	<0.005	-	<0.005	-	-	<0.005	-	-	-	<0.005	-
MTBE (Methyl Tertiary Butyl Ether)	mg/kg	0.005	MCERTS	-	-	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	-	<0.005	<0.005	-
1,1-Dichloroethane	mg/kg	0.005	MCERTS	-	-	<0.005	-	<0.005	-	-	<0.005	-	-	-	<0.005	-
2,2-Dichloropropane	mg/kg	0.005	NONE	-	-	<0.005	-	<0.005	-	-	<0.005	-	-	-	<0.005	-
Chloroform	mg/kg	0.005	MCERTS	-	-	<0.005	-	<0.005	-	-	<0.005	-	-	-	<0.005	-
1,1,1-Trichloroethane	mg/kg	0.005	MCERTS	-	-	<0.005	-	<0.005	-	-	<0.005	-	-	-	<0.005	-
1,2-Dichloroethane	mg/kg	0.007	MCERTS	-	-	<0.007	-	<0.007	-	-	<0.007	-	-	-	<0.007	-
1,1-Dichloropropene	mg/kg	0.005	MCERTS	-	-	<0.005	-	<0.005	-	-	<0.005	-	-	-	<0.005	-
Cis-1,2-dichloroethene	mg/kg	0.005	MCERTS	-	-	<0.005	-	<0.005	-	-	<0.005	-	-	-	<0.005	-
Benzene	mg/kg	0.005	MCERTS	0.13	0.06	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	-	<0.005	<0.005	-
Carbontetrachloride	mg/kg	0.005	MCERTS	-	-	<0.005	-	<0.005	-	-	<0.005	-	-	-	<0.005	-
1,2-Dichloropropane	mg/kg	0.006	MCERTS	-	-	<0.006	-	<0.006	-	-	<0.006	-	-	-	<0.006	-
Trichloroethene	mg/kg	0.01	MCERTS	-	-	<0.01	-	<0.01	-	-	<0.01	-	-	-	<0.01	-
Dibromomethane	mg/kg	0.005	MCERTS	-	-	<0.005	-	<0.005	-	-	<0.005	-	-	-	<0.005	-
Bromodichloromethane	mg/kg	0.005	MCERTS	-	-	<0.005	-	<0.005	-	-	<0.005	-	-	-	<0.005	-
Cis-1,3-dichloropropene	mg/kg	0.005	MCERTS	-	-	<0.005	-	<0.005	-	-	<0.005	-	-	-	<0.005	-
Trans-1,3-dichloropropene	mg/kg	0.01	MCERTS	-	-	<0.01	-	<0.01	-	-	<0.01	-	-	-	<0.01	-
Toluene	mg/kg	0.005	MCERTS	240	104	<0.005	<0.005	<0.005	<0.005	-	<0.005	0.014	-	<0.005	<0.005	-
1,1,2-Trichloroethane	mg/kg	0.006	MCERTS	-	-	<0.006	-	<0.006	-	-	<0.006	-	-	-	<0.006	-
1,3-Dichloropropane	mg/kg	0.005	MCERTS	-	-	<0.005	-	<0.005	-	-	<0.005	-	-	-	<0.005	-
Dibromochloromethane	mg/kg	0.005	MCERTS	-	-	<0.005	-	<0.005	-	-	<0.005	-	-	-	<0.005	-
Tetrachloroethene	mg/kg	0.005	MCERTS	-	-	<0.005	-	<0.005	-	-	<0.005	-	-	-	<0.005	-
1,2-Dibromoethane	mg/kg	0.005	MCERTS	-	-	<0.005	-	<0.005	-	-	<0.005	-	-	-	<0.005	-
Chlorobenzene	mg/kg	0.005	MCERTS	-	-	<0.005	-	<0.005	-	-	<0.005	-	-	-	<0.005	-
1,1,1,2-Tetrachloroethane	mg/kg	0.005	MCERTS	-	-	<0.005	-	<0.005	-	-	<0.005	-	-	-	<0.005	-
Ethylbenzene	mg/kg	0.005	MCERTS	62	30	<0.005	<0.005	<0.005	<0.005	-	<0.005	0.016	-	<0.005	<0.005	-
p & m-Xylene	mg/kg	0.008	MCERTS	70	30	<0.008	<0.008	<0.008	<0.008	-	<0.008	0.014	-	<0.008	<0.008	-
Styrene	mg/kg	0.005	MCERTS	-	-	<0.005	-	<0.005	-	-	<0.005	-	-	-	<0.005	-
Bromoform	mg/kg	0.005	MCERTS	-	-	<0.005	-	<0.005	-	-	<0.005	-	-	-	<0.005	-
o-Xylene	mg/kg	0.005	MCERTS	70	30	<0.005	<0.005	<0.005	<0.005	-	<0.005	0.013	-	<0.005	<0.005	-
Isopropylbenzene	mg/kg	0.005	MCERTS	-	-	<0.005	-	<0.005	-	-	<0.005	-	-	-	<0.005	-
1,1,2,2-Tetrachloroethane	mg/kg	0.005	NONE	-	-	<0.005	-	<0.005	-	-	<0.005	-	-	-	<0.005	-
Bromobenzene	mg/kg	0.005	MCERTS	-	-	<0.005	-	<0.005	-	-	<0.005	-	-	-	<0.005	-
n-Propylbenzene	mg/kg	0.005	MCERTS	-	-	<0.005	-	<0.005	-	-	<0.005	-	-	-	<0.005	-
2-Chlorotoluene	mg/kg	0.005	MCERTS	-	-	<0.005	-	<0.005	-	-	<0.005	-	-	-	<0.005	-
4-Chlorotoluene	mg/kg	0.005	MCERTS	-	-	<0.005	-	<0.005	-	-	<0.005	-	-	-	<0.005	-
1,3,5-Trimethylbenzene	mg/kg	0.005	MCERTS	-	-	<0.005	-	<0.005	-	-	<0.005	-	-	-	<0.005	-
tert-Butylbenzene	mg/kg	0.005	MCERTS	-	-	<0.005	-	<0.005	-	-	<0.005	-	-	-	<0.005	-
1,2,4-Trimethylbenzene	mg/kg	0.005	MCERTS	-	-	<0.005	-	<0.005	-	-	<0.005	-	-	-	<0.005	-
sec-Butylbenzene	mg/kg	0.005	MCERTS	-	-	<0.005	-	<0.005	-	-	<0.005	-	-	-	<0.005	-
1,3-Dichlorobenzene	mg/kg	0.005	MCERTS	-	-	<0.005	-	<0.005	-	-	<0.005	-	-	-	<0.005	-

				GAC (Residential with home-grown produce) mg/kg (1-6% SOM)		Natural Strata									
Lab Sample Number				Residential with home-grown produce GAC @ 2.5% SOM (mg/kg) for organics in Made Ground*	Residential with home-grown produce GAC @ 1.0% SOM (mg/kg) for organics in Natural Strata*	342557	342559	342561	342563	347144	342571	347147	342575	347150	347153
Sample Reference						BH1-ES3	BH2-ES2	BH3-ES2	BH4-ES2	CP1-ES3	CP2-ES5	CP3-ES3	CP4-ES5	CP5-ES4	CP6-ES4
Depth (m)						1.50	1.50	2.00	1.50	8.90	11.50	10.00	9.50	9.30	10.50
Date Sampled						04/10/2024	04/10/2024	04/10/2024	04/10/2024	10/10/2024	03/10/2024	09/10/2024	02/10/2024	07/10/2024	08/10/2024
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status												
TPHCWG - Aromatic >EC16 - EC21 EH_CU_1D_AR	mg/kg	10	MCERTS	540	260	< 10	-	< 10	< 10	-	-	-	-	-	-
TPHCWG - Aromatic >EC21 - EC35 EH_CU_1D_AR	mg/kg	10	MCERTS	1,400	1,100	< 10	-	< 10	< 10	-	-	-	-	-	-
TPHCWG - Aromatic >EC35 - EC44 EH_CU_1D_AR	mg/kg	8.4	NONE	1,400	1,100	< 8.4	-	< 8.4	< 8.4	-	-	-	-	-	-
TPHCWG - Aromatic >EC5 - EC35 EH_CU+HS_1D_AR	mg/kg	10	NONE	-	-	< 10	-	< 10	< 10	-	-	-	-	-	-
TPHCWG - Aromatic >EC5 - EC44 EH_CU+HS_1D_AR	mg/kg	10	NONE	-	-	< 10	-	< 10	< 10	-	-	-	-	-	-
VOCs															
Chloromethane	mg/kg	0.005	MCERTS	-	-	<0.005	-	<0.005	<0.005	-	-	-	-	-	-
Chloroethane	mg/kg	0.005	MCERTS	-	-	<0.005	-	<0.005	<0.005	-	-	-	-	-	-
Bromomethane	mg/kg	0.005	MCERTS	-	-	<0.005	-	<0.005	<0.005	-	-	-	-	-	-
Vinyl Chloride	mg/kg	0.005	NONE	-	-	<0.005	-	<0.005	<0.005	-	-	-	-	-	-
Trichlorofluoromethane	mg/kg	0.005	MCERTS	-	-	<0.005	-	<0.005	<0.005	-	-	-	-	-	-
1,1-Dichloroethene	mg/kg	0.005	MCERTS	-	-	<0.005	-	<0.005	<0.005	-	-	-	-	-	-
1,1,2-Trichloro 1,2,2-Trifluoroethane	mg/kg	0.005	MCERTS	-	-	<0.005	-	<0.005	<0.005	-	-	-	-	-	-
Trans 1,2-dichloroethylene	mg/kg	0.005	MCERTS	-	-	<0.005	-	<0.005	<0.005	-	-	-	-	-	-
MTBE (Methyl Tertiary Butyl Ether)	mg/kg	0.005	MCERTS	-	-	<0.005	-	<0.005	<0.005	-	-	-	-	-	-
1,1-Dichloroethane	mg/kg	0.005	MCERTS	-	-	<0.005	-	<0.005	<0.005	-	-	-	-	-	-
2,2-Dichloropropane	mg/kg	0.005	NONE	-	-	<0.005	-	<0.005	<0.005	-	-	-	-	-	-
Chloroform	mg/kg	0.005	MCERTS	-	-	<0.005	-	<0.005	<0.005	-	-	-	-	-	-
1,1,1-Trichloroethane	mg/kg	0.005	MCERTS	-	-	<0.005	-	<0.005	<0.005	-	-	-	-	-	-
1,2-Dichloroethane	mg/kg	0.007	MCERTS	-	-	<0.007	-	<0.007	<0.007	-	-	-	-	-	-
1,1-Dichloropropene	mg/kg	0.005	MCERTS	-	-	<0.005	-	<0.005	<0.005	-	-	-	-	-	-
Cis-1,2-dichloroethene	mg/kg	0.005	MCERTS	-	-	<0.005	-	<0.005	<0.005	-	-	-	-	-	-
Benzene	mg/kg	0.005	MCERTS	0.13	0.06	<0.005	-	<0.005	<0.005	-	-	-	-	-	-
Carbontetrachloride	mg/kg	0.005	MCERTS	-	-	<0.005	-	<0.005	<0.005	-	-	-	-	-	-
1,2-Dichloropropane	mg/kg	0.006	MCERTS	-	-	<0.006	-	<0.006	<0.006	-	-	-	-	-	-
Trichloroethene	mg/kg	0.01	MCERTS	-	-	<0.01	-	<0.01	<0.01	-	-	-	-	-	-
Dibromomethane	mg/kg	0.005	MCERTS	-	-	<0.005	-	<0.005	<0.005	-	-	-	-	-	-
Bromodichloromethane	mg/kg	0.005	MCERTS	-	-	<0.005	-	<0.005	<0.005	-	-	-	-	-	-
Cis-1,3-dichloropropene	mg/kg	0.005	MCERTS	-	-	<0.005	-	<0.005	<0.005	-	-	-	-	-	-
Trans-1,3-dichloropropene	mg/kg	0.01	MCERTS	-	-	<0.01	-	<0.01	<0.01	-	-	-	-	-	-
Toluene	mg/kg	0.005	MCERTS	240	104	<0.005	-	<0.005	<0.005	-	-	-	-	-	-
1,1,2-Trichloroethane	mg/kg	0.006	MCERTS	-	-	<0.006	-	<0.006	<0.006	-	-	-	-	-	-
1,3-Dichloropropane	mg/kg	0.005	MCERTS	-	-	<0.005	-	<0.005	<0.005	-	-	-	-	-	-
Dibromochloromethane	mg/kg	0.005	MCERTS	-	-	<0.005	-	<0.005	<0.005	-	-	-	-	-	-
Tetrachloroethene	mg/kg	0.005	MCERTS	-	-	<0.005	-	<0.005	<0.005	-	-	-	-	-	-
1,2-Dibromoethane	mg/kg	0.005	MCERTS	-	-	<0.005	-	<0.005	<0.005	-	-	-	-	-	-
Chlorobenzene	mg/kg	0.005	MCERTS	-	-	<0.005	-	<0.005	<0.005	-	-	-	-	-	-
1,1,1,2-Tetrachloroethane	mg/kg	0.005	MCERTS	-	-	<0.005	-	<0.005	<0.005	-	-	-	-	-	-
Ethylbenzene	mg/kg	0.005	MCERTS	62	30	<0.005	-	<0.005	<0.005	-	-	-	-	-	-
p & m-Xylene	mg/kg	0.008	MCERTS	70	30	<0.008	-	<0.008	<0.008	-	-	-	-	-	-
Styrene	mg/kg	0.005	MCERTS	-	-	<0.005	-	<0.005	<0.005	-	-	-	-	-	-
Bromoform	mg/kg	0.005	MCERTS	-	-	<0.005	-	<0.005	<0.005	-	-	-	-	-	-
o-Xylene	mg/kg	0.005	MCERTS	70	30	<0.005	-	<0.005	<0.005	-	-	-	-	-	-
Isopropylbenzene	mg/kg	0.005	MCERTS	-	-	<0.005	-	<0.005	<0.005	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	mg/kg	0.005	NONE	-	-	<0.005	-	<0.005	<0.005	-	-	-	-	-	-
Bromobenzene	mg/kg	0.005	MCERTS	-	-	<0.005	-	<0.005	<0.005	-	-	-	-	-	-
n-Propylbenzene	mg/kg	0.005	MCERTS	-	-	<0.005	-	<0.005	<0.005	-	-	-	-	-	-
2-Chlorotoluene	mg/kg	0.005	MCERTS	-	-	<0.005	-	<0.005	<0.005	-	-	-	-	-	-
4-Chlorotoluene	mg/kg	0.005	MCERTS	-	-	<0.005	-	<0.005	<0.005	-	-	-	-	-	-
1,3,5-Trimethylbenzene	mg/kg	0.005	MCERTS	-	-	<0.005	-	<0.005	<0.005	-	-	-	-	-	-
tert-Butylbenzene	mg/kg	0.005	MCERTS	-	-	<0.005	-	<0.005	<0.005	-	-	-	-	-	-
1,2,4-Trimethylbenzene	mg/kg	0.005	MCERTS	-	-	<0.005	-	<0.005	<0.005	-	-	-	-	-	-
sec-Butylbenzene	mg/kg	0.005	MCERTS	-	-	<0.005	-	<0.005	<0.005	-	-	-	-	-	-
1,3-Dichlorobenzene	mg/kg	0.005	MCERTS	-	-	<0.005	-	<0.005	<0.005	-	-	-	-	-	-

Analytical Report Number: 24-046672-1 and 24-047471-1

Project / Site name: Church Lane, Moston

				GAC (Residential with home-grown produce) mg/kg (1-6% SOM)		Made Ground										
Lab Sample Number				Residential with home-grown produce GAC @ 2.5% SOM (mg/kg) for organics in Made Ground*	Residential with home-grown produce GAC @ 1.0% SOM (mg/kg) for organics in Natural Strata*	342556	342558	342560	342562	342564	342565	342566	342567	342568	347142	347143
Sample Reference						BH1-ES2	BH2-ES1	BH3-ES1	BH4-ES1	BH5-ES1	BH5-ES2	BH6-ES1	BH6-ES2	BH7-ES1	CP1-ES1	CP1-ES2
Depth (m)						0.50	0.50	0.50	0.50	1.00	2.00	0.50	1.50	0.50	1.00	4.00
Date Sampled						04/10/2024	04/10/2024	04/10/2024	04/10/2024	04/10/2024	04/10/2024	04/10/2024	04/10/2024	04/10/2024	04/10/2024	10/10/2024
Analytical Parameter (Soil Analysis)		Units	Test Limit of detection	Test Accreditation Status												
p-Isopropyltoluene	mg/kg	0.005	MCERTS	-	-	-	-	-	-	-	<0.005	-	<0.005	-	-	-
1,4-Dichlorobenzene	mg/kg	0.005	MCERTS	-	-	-	-	-	-	-	<0.005	-	<0.005	-	-	-
1,2-Dichlorobenzene	mg/kg	0.005	MCERTS	-	-	-	-	-	-	-	<0.005	-	<0.005	-	-	-
Butylbenzene	mg/kg	0.005	MCERTS	-	-	-	-	-	-	-	<0.005	-	<0.005	-	-	-
1,2-Dibromo-3-chloropropane	mg/kg	0.008	MCERTS	-	-	-	-	-	-	-	<0.008	-	<0.008	-	-	-
1,2,4-Trichlorobenzene	mg/kg	0.005	MCERTS	-	-	-	-	-	-	-	<0.005	-	<0.005	-	-	-
Hexachlorobutadiene	mg/kg	0.005	MCERTS	-	-	-	-	-	-	-	<0.005	-	<0.005	-	-	-
1,2,3-Trichlorobenzene	mg/kg	0.005	MCERTS	-	-	-	-	-	-	-	<0.005	-	<0.005	-	-	-
SVOCs																
Aniline	mg/kg	0.1	NONE	-	-	-	-	-	-	-	< 0.1	-	< 0.1	-	-	-
Phenol	mg/kg	0.2	ISO 17025	-	-	-	-	-	-	-	< 0.2	-	< 0.2	-	-	-
2-Chlorophenol	mg/kg	0.1	MCERTS	-	-	-	-	-	-	-	< 0.1	-	< 0.1	-	-	-
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	-	-	-	-	-	-	-	< 0.2	-	< 0.2	-	-	-
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	-	-	-	-	-	-	-	< 0.2	-	< 0.2	-	-	-
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	-	-	-	-	-	-	-	< 0.1	-	< 0.1	-	-	-
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	-	-	-	-	-	-	-	< 0.2	-	< 0.2	-	-	-
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	-	-	-	-	-	-	-	< 0.1	-	< 0.1	-	-	-
2-Methylphenol	mg/kg	0.3	MCERTS	-	-	-	-	-	-	-	< 0.3	-	< 0.3	-	-	-
Hexachloroethane	mg/kg	0.05	ISO 17025	-	-	-	-	-	-	-	< 0.05	-	< 0.05	-	-	-
Nitrobenzene	mg/kg	0.3	MCERTS	-	-	-	-	-	-	-	< 0.3	-	< 0.3	-	-	-
4-Methylphenol	mg/kg	0.2	NONE	-	-	-	-	-	-	-	< 0.2	-	< 0.2	-	-	-
Isophorone	mg/kg	0.2	MCERTS	-	-	-	-	-	-	-	< 0.2	-	< 0.2	-	-	-
2-Nitrophenol	mg/kg	0.3	NONE	-	-	-	-	-	-	-	< 0.3	-	< 0.3	-	-	-
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	-	-	-	-	-	-	-	< 0.3	-	< 0.3	-	-	-
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	-	-	-	-	-	-	-	< 0.3	-	< 0.3	-	-	-
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	-	-	-	-	-	-	-	< 0.3	-	< 0.3	-	-	-
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	-	-	-	-	-	-	-	< 0.3	-	< 0.3	-	-	-
4-Chloroaniline	mg/kg	0.1	NONE	-	-	-	-	-	-	-	< 0.1	-	< 0.1	-	-	-
Hexachlorobutadiene	mg/kg	0.1	MCERTS	-	-	-	-	-	-	-	< 0.1	-	< 0.1	-	-	-
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	-	-	-	-	-	-	-	< 0.1	-	< 0.1	-	-	-
2,4,6-Trichlorophenol	mg/kg	0.1	NONE	-	-	-	-	-	-	-	< 0.1	-	< 0.1	-	-	-
2,4,5-Trichlorophenol	mg/kg	0.2	NONE	-	-	-	-	-	-	-	< 0.2	-	< 0.2	-	-	-
2-Methylnaphthalene	mg/kg	0.1	NONE	-	-	-	-	-	-	-	0.3	-	0.1	-	-	-
2-Chloronaphthalene	mg/kg	0.1	MCERTS	-	-	-	-	-	-	-	< 0.1	-	< 0.1	-	-	-
Dimethylphthalate	mg/kg	0.1	MCERTS	-	-	-	-	-	-	-	< 0.1	-	< 0.1	-	-	-
2,6-Dinitrotoluene	mg/kg	0.1	NONE	-	-	-	-	-	-	-	< 0.1	-	< 0.1	-	-	-
2,4-Dinitrotoluene	mg/kg	0.2	NONE	-	-	-	-	-	-	-	< 0.2	-	< 0.2	-	-	-
Dibenzofuran	mg/kg	0.2	MCERTS	-	-	-	-	-	-	-	0.3	-	< 0.2	-	-	-
4-Chlorophenyl phenyl ether	mg/kg	0.3	MCERTS	-	-	-	-	-	-	-	< 0.3	-	< 0.3	-	-	-
Diethyl phthalate	mg/kg	0.2	MCERTS	-	-	-	-	-	-	-	< 0.2	-	< 0.2	-	-	-
4-Nitroaniline	mg/kg	0.2	NONE	-	-	-	-	-	-	-	< 0.2	-	< 0.2	-	-	-
Azobenzene	mg/kg	0.3	NONE	-	-	-	-	-	-	-	< 0.3	-	< 0.3	-	-	-
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	-	-	-	-	-	-	-	< 0.2	-	< 0.2	-	-	-
Hexachlorobenzene	mg/kg	0.3	MCERTS	-	-	-	-	-	-	-	< 0.30	-	< 0.30	-	-	-
Carbazole	mg/kg	0.3	MCERTS	-	-	-	-	-	-	-	< 0.3	-	< 0.3	-	-	-
Dibutyl phthalate	mg/kg	0.2	NONE	-	-	-	-	-	-	-	< 0.2	-	< 0.2	-	-	-
Anthraquinone	mg/kg	0.3	NONE	-	-	-	-	-	-	-	0.8	-	< 0.3	-	-	-
Butyl benzyl phthalate	mg/kg	0.3	NONE	-	-	-	-	-	-	-	< 0.3	-	< 0.3	-	-	-

Analytical Report Number: 24-046672-1 and 24-047471-1

Project / Site name: Church Lane, Moston

				GAC (Residential with home-grown produce) mg/kg (1-6% SOM)												
Lab Sample Number				Residential with home-grown produce GAC @ 2.5% SOM (mg/kg) for organics in Made Ground*	Residential with home-grown produce GAC @ 1.0% SOM (mg/kg) for organics in Natural Strata*	342569	342570	347145	347146	342572	342573	342574	347148	347149	347151	347152
Sample Reference						CP2-ES1	CP2-ES4	CP3-ES1	CP3-ES2	CP4-ES1	CP4-ES2	CP4-ES4	CP5-ES1	CP5-ES3	CP6-ES1	CP6-ES3
Depth (m)						0.50	5.00	1.00	4.00	0.50	1.50	5.50	0.50	6.00	1.00	5.00
Date Sampled						03/10/2024	03/10/2024	09/10/2024	09/10/2024	02/10/2024	02/10/2024	02/10/2024	07/10/2024	07/10/2024	08/10/2024	08/10/2024
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status													
p-Isopropyltoluene	mg/kg	0.005	MCERTS	-	-	<0.005	-	<0.005	-	-	<0.005	-	-	-	<0.005	-
1,4-Dichlorobenzene	mg/kg	0.005	MCERTS	-	-	<0.005	-	<0.005	-	-	<0.005	-	-	-	<0.005	-
1,2-Dichlorobenzene	mg/kg	0.005	MCERTS	-	-	<0.005	-	<0.005	-	-	<0.005	-	-	-	<0.005	-
Butylbenzene	mg/kg	0.005	MCERTS	-	-	<0.005	-	<0.005	-	-	<0.005	-	-	-	<0.005	-
1,2-Dibromo-3-chloropropane	mg/kg	0.008	MCERTS	-	-	<0.008	-	<0.008	-	-	<0.008	-	-	-	<0.008	-
1,2,4-Trichlorobenzene	mg/kg	0.005	MCERTS	-	-	<0.005	-	<0.005	-	-	<0.005	-	-	-	<0.005	-
Hexachlorobutadiene	mg/kg	0.005	MCERTS	-	-	<0.005	-	<0.005	-	-	<0.005	-	-	-	<0.005	-
1,2,3-Trichlorobenzene	mg/kg	0.005	MCERTS	-	-	<0.005	-	<0.005	-	-	<0.005	-	-	-	<0.005	-
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	ISO 17025	-	-	< 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	NONE	-	-	< 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	-
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	NONE	-	-	< 0.1	-	< 0.1	-	-	< 0.1	-	-	-	< 0.1	-
2,4,5-Trichlorophenol	mg/kg	0.2	NONE	-	-	< 0.2	-	< 0.2	-	-	< 0.2	-	-	-	< 0.2	-
2-Methylnaphthalene	mg/kg	0.1	NONE	-	-	0.1	-	0.4	-	-	0.3	-	-	-	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	NONE	-	-	< 0.1	-	< 0.1	-	-	< 0.1	-	-	-	< 0.1	-
2,4-Dinitrotoluene	mg/kg	0.2	NONE	-	-	< 0.2	-	< 0.2	-	-	< 0.2	-	-	-	< 0.2	-
Dibenzofuran	mg/kg	0.2	MCERTS	-	-	< 0.2	-	0.6	-	-	0.6	-	-	-	0.2	-
4-Chlorophenyl phenyl ether	mg/kg	0.3	MCERTS	-	-	< 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	NONE	-	-	< 0.2	-	< 0.2	-	-	< 0.2	-	-	-	< 0.2	-
Azobenzene	mg/kg	0.3	NONE	-	-	< 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	-	-	< 0.30	-	< 0.30	-	-	< 0.30	-	-	-	< 0.30	-
Carbazole	mg/kg	0.3	MCERTS	-	-	< 0.3	-	0.4	-	-	< 0.3	-	-	-	< 0.3	-
Dibutyl phthalate	mg/kg	0.2	NONE	-	-	< 0.2	-	< 0.2	-	-	< 0.2	-	-	-	< 0.2	-
Anthraquinone	mg/kg	0.3	NONE	-	-	< 0.3	-	0.5	-	-	< 0.3	-	-	-	0.3	-
Butyl benzyl phthalate	mg/kg	0.3	NONE	-	-	< 0.3	-	< 0.3	-	-	< 0.3	-	-	-	< 0.3	-

Analytical Report Number: 24-046672-1 and 24-047471-1

Project / Site name: Church Lane, Moston

				GAC (Residential with home-grown produce) mg/kg (1-6% SOM)		Natural Strata									
Lab Sample Number				Residential with home-grown produce GAC @ 2.5% SOM (mg/kg) for organics in Made Ground*	Residential with home-grown produce GAC @ 1.0% SOM (mg/kg) for organics in Natural Strata*	342557	342559	342561	342563	347144	342571	347147	342575	347150	347153
Sample Reference						BH1-ES3	BH2-ES2	BH3-ES2	BH4-ES2	CP1-ES3	CP2-ES5	CP3-ES3	CP4-ES5	CP5-ES4	CP6-ES4
Depth (m)						1.50	1.50	2.00	1.50	8.90	11.50	10.00	9.50	9.30	10.50
Date Sampled						04/10/2024	04/10/2024	04/10/2024	04/10/2024	10/10/2024	03/10/2024	09/10/2024	02/10/2024	07/10/2024	08/10/2024
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status												
p-Isopropyltoluene	mg/kg	0.005	MCERTS	-	-	<0.005	-	<0.005	<0.005	-	-	-	-	-	-
1,4-Dichlorobenzene	mg/kg	0.005	MCERTS	-	-	<0.005	-	<0.005	<0.005	-	-	-	-	-	-
1,2-Dichlorobenzene	mg/kg	0.005	MCERTS	-	-	<0.005	-	<0.005	<0.005	-	-	-	-	-	-
Butylbenzene	mg/kg	0.005	MCERTS	-	-	<0.005	-	<0.005	<0.005	-	-	-	-	-	-
1,2-Dibromo-3-chloropropane	mg/kg	0.008	MCERTS	-	-	<0.008	-	<0.008	<0.008	-	-	-	-	-	-
1,2,4-Trichlorobenzene	mg/kg	0.005	MCERTS	-	-	<0.005	-	<0.005	<0.005	-	-	-	-	-	-
Hexachlorobutadiene	mg/kg	0.005	MCERTS	-	-	<0.005	-	<0.005	<0.005	-	-	-	-	-	-
1,2,3-Trichlorobenzene	mg/kg	0.005	MCERTS	-	-	<0.005	-	<0.005	<0.005	-	-	-	-	-	-
SVOCs															
Aniline	mg/kg	0.1	NONE	-	-	< 0.1	-	< 0.1	< 0.1	-	-	-	-	-	-
Phenol	mg/kg	0.2	ISO 17025	-	-	< 0.2	-	< 0.2	< 0.2	-	-	-	-	-	-
2-Chlorophenol	mg/kg	0.1	MCERTS	-	-	< 0.1	-	< 0.1	< 0.1	-	-	-	-	-	-
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	-	-	< 0.2	-	< 0.2	< 0.2	-	-	-	-	-	-
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	-	-	< 0.2	-	< 0.2	< 0.2	-	-	-	-	-	-
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	-	-	< 0.1	-	< 0.1	< 0.1	-	-	-	-	-	-
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	-	-	< 0.2	-	< 0.2	< 0.2	-	-	-	-	-	-
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	-	-	< 0.1	-	< 0.1	< 0.1	-	-	-	-	-	-
2-Methylphenol	mg/kg	0.3	MCERTS	-	-	< 0.3	-	< 0.3	< 0.3	-	-	-	-	-	-
Hexachloroethane	mg/kg	0.05	ISO 17025	-	-	< 0.05	-	< 0.05	< 0.05	-	-	-	-	-	-
Nitrobenzene	mg/kg	0.3	MCERTS	-	-	< 0.3	-	< 0.3	< 0.3	-	-	-	-	-	-
4-Methylphenol	mg/kg	0.2	NONE	-	-	< 0.2	-	< 0.2	< 0.2	-	-	-	-	-	-
Isophorone	mg/kg	0.2	MCERTS	-	-	< 0.2	-	< 0.2	< 0.2	-	-	-	-	-	-
2-Nitrophenol	mg/kg	0.3	NONE	-	-	< 0.3	-	< 0.3	< 0.3	-	-	-	-	-	-
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	-	-	< 0.3	-	< 0.3	< 0.3	-	-	-	-	-	-
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	-	-	< 0.3	-	< 0.3	< 0.3	-	-	-	-	-	-
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	-	-	< 0.3	-	< 0.3	< 0.3	-	-	-	-	-	-
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	-	-	< 0.3	-	< 0.3	< 0.3	-	-	-	-	-	-
4-Chloroaniline	mg/kg	0.1	NONE	-	-	< 0.1	-	< 0.1	< 0.1	-	-	-	-	-	-
Hexachlorobutadiene	mg/kg	0.1	MCERTS	-	-	< 0.1	-	< 0.1	< 0.1	-	-	-	-	-	-
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	-	-	< 0.1	-	< 0.1	< 0.1	-	-	-	-	-	-
2,4,6-Trichlorophenol	mg/kg	0.1	NONE	-	-	< 0.1	-	< 0.1	< 0.1	-	-	-	-	-	-
2,4,5-Trichlorophenol	mg/kg	0.2	NONE	-	-	< 0.2	-	< 0.2	< 0.2	-	-	-	-	-	-
2-Methylnaphthalene	mg/kg	0.1	NONE	-	-	< 0.1	-	0.1	< 0.1	-	-	-	-	-	-
2-Chloronaphthalene	mg/kg	0.1	MCERTS	-	-	< 0.1	-	< 0.1	< 0.1	-	-	-	-	-	-
Dimethylphthalate	mg/kg	0.1	MCERTS	-	-	< 0.1	-	< 0.1	< 0.1	-	-	-	-	-	-
2,6-Dinitrotoluene	mg/kg	0.1	NONE	-	-	< 0.1	-	< 0.1	< 0.1	-	-	-	-	-	-
2,4-Dinitrotoluene	mg/kg	0.2	NONE	-	-	< 0.2	-	< 0.2	< 0.2	-	-	-	-	-	-
Dibenzofuran	mg/kg	0.2	MCERTS	-	-	< 0.2	-	< 0.2	< 0.2	-	-	-	-	-	-
4-Chlorophenyl phenyl ether	mg/kg	0.3	MCERTS	-	-	< 0.3	-	< 0.3	< 0.3	-	-	-	-	-	-
Diethyl phthalate	mg/kg	0.2	MCERTS	-	-	< 0.2	-	< 0.2	< 0.2	-	-	-	-	-	-
4-Nitroaniline	mg/kg	0.2	NONE	-	-	< 0.2	-	< 0.2	< 0.2	-	-	-	-	-	-
Azobenzene	mg/kg	0.3	NONE	-	-	< 0.3	-	< 0.3	< 0.3	-	-	-	-	-	-
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	-	-	< 0.2	-	< 0.2	< 0.2	-	-	-	-	-	-
Hexachlorobenzene	mg/kg	0.3	MCERTS	-	-	< 0.30	-	< 0.30	< 0.30	-	-	-	-	-	-
Carbazole	mg/kg	0.3	MCERTS	-	-	< 0.3	-	< 0.3	< 0.3	-	-	-	-	-	-
Dibutyl phthalate	mg/kg	0.2	NONE	-	-	< 0.2	-	< 0.2	< 0.2	-	-	-	-	-	-
Anthraquinone	mg/kg	0.3	NONE	-	-	< 0.3	-	< 0.3	< 0.3	-	-	-	-	-	-
Butyl benzyl phthalate	mg/kg	0.3	NONE	-	-	< 0.3	-	< 0.3	< 0.3	-	-	-	-	-	-

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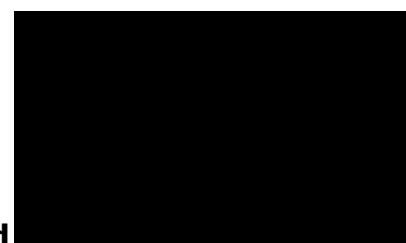
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Analytical Report Number : 24-046672

Project / Site name:	Church Lane Moston	Samples received on:	08/10/2024
Your job number:	GUK 0524 02	Samples instructed on/ Analysis started on:	08/10/2024
Your order number:		Analysis completed by:	18/10/2024
Report Issue Number:	1	Report issued on:	18/10/2024
Samples Analysed:	20 soil samples		

Signed



Dominika Liana
Junior Reporting Specialist
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.

Analytical Report Number: 24-046672
Project / Site name: Church Lane Moston

Lab Sample Number				342556	342557	342558	342559	342560
Sample Reference				BH1-ES2	BH1-ES3	BH2-ES1	BH2-ES2	BH3-ES1
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.50	1.50	0.50	1.50	0.50
Date Sampled				04/10/2024	04/10/2024	04/10/2024	04/10/2024	04/10/2024
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status					

Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	23.3
Moisture Content	%	0.01	NONE	15	13	19	10	13
Total mass of sample received	kg	0.1	NONE	1	0.8	0.9	0.8	0.8

Asbestos

Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	Not-detected	Not-detected	Detected	Not-detected	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	DKI	DKI	DKI	DKI	DKI
Actinolite detected	Type	N/A	ISO 17025	-	-	Not-detected	-	-
Amosite detected	Type	N/A	ISO 17025	-	-	Not-detected	-	-
Anthophyllite detected	Type	N/A	ISO 17025	-	-	Not-detected	-	-
Chrysotile detected	Type	N/A	ISO 17025	-	-	Detected	-	-
Crocidolite detected	Type	N/A	ISO 17025	-	-	Not-detected	-	-
Tremolite detected	Type	N/A	ISO 17025	-	-	Not-detected	-	-

Asbestos Containing Material Types Detected (ACM)	Type	N/A	ISO 17025	-	-	Loose Fibres	-	-
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General Inorganics

pH (L099)	pH Units	N/A	MCERTS	7.8	8.2	8.4	7.3	11
Electrical Conductivity	µS/cm	10	MCERTS	120	200	230	400	620
Total Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Free Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Thiocyanate as SCN	mg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Total Sulphate as SO ₄	mg/kg	50	MCERTS	120	200	1100	450	3300
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	36	81	220	390	230
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.0178	0.0404	0.111	0.195	0.117
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	17.8	40.4	111	195	117
Total Potential Sulphate	mg/kg	30	NONE	-	380	-	-	-
Sulphide	mg/kg	1	MCERTS	< 1.0	< 1.0	1.6	< 1.0	73
Total Sulphur	mg/kg	50	MCERTS	74	130	670	230	2200
Organic Matter (automated)	%	0.1	MCERTS	1.3	1.4	4.9	1.3	5
Total Organic Carbon (TOC) - Automated	%	0.1	MCERTS	0.7	0.8	2.8	0.8	2.9
Redox Potential	mV	-800	NONE	191.7	219	231	230.4	239.8

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
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Analytical Report Number: 24-046672
Project / Site name: Church Lane Moston

Lab Sample Number				342556	342557	342558	342559	342560
Sample Reference				BH1-ES2	BH1-ES3	BH2-ES1	BH2-ES2	BH3-ES1
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.50	1.50	0.50	1.50	0.50
Date Sampled				04/10/2024	04/10/2024	04/10/2024	04/10/2024	04/10/2024
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status					

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.72	< 0.05	2
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.52	< 0.05	0.57
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	1.4	< 0.05	15
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	1.3	< 0.05	9.4
Phenanthrene	mg/kg	0.05	MCERTS	< 0.05	0.1	14	< 0.05	78
Anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	3.6	< 0.05	23
Fluoranthene	mg/kg	0.05	MCERTS	< 0.05	0.17	27	< 0.05	150
Pyrene	mg/kg	0.05	MCERTS	< 0.05	0.17	25	< 0.05	120
Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05	0.07	13	< 0.05	63
Chrysene	mg/kg	0.05	MCERTS	< 0.05	0.13	13	< 0.05	66
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	< 0.05	0.09	15	< 0.05	82
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	< 0.05	< 0.05	4.8	< 0.05	29
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05	0.06	13	< 0.05	67
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	0.08	4.9	< 0.05	33
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	1.2	< 0.05	6.1
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	0.1	6.1	< 0.05	36

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	< 0.80	0.99	144	< 0.80	780
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	7.2	6.7	37	9.4	21
Barium (aqua regia extractable)	mg/kg	1	MCERTS	130	130	720	210	520
Boron (water soluble)	mg/kg	0.2	MCERTS	0.4	0.5	0.8	0.6	0.7
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	0.3	1.1	0.3	0.9
Chromium (hexavalent)	mg/kg	1.8	MCERTS	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	25	27	32	32	27
Copper (aqua regia extractable)	mg/kg	1	MCERTS	21	25	120	25	120
Lead (aqua regia extractable)	mg/kg	1	MCERTS	12	15	500	15	300
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	0.6	< 0.3	0.5
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	38	32	35	56	27
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	1.2	< 1.0	< 1.0
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	60	65	250	75	260

Petroleum Hydrocarbons

TPHCWG - Aliphatic >EC5 - EC6 _{HS_1D_AL}	mg/kg	0.01	MCERTS	-	< 0.010	-	-	< 0.010
TPHCWG - Aliphatic >EC6 - EC8 _{HS_1D_AL}	mg/kg	0.01	MCERTS	-	< 0.010	-	-	< 0.010
TPHCWG - Aliphatic >EC8 - EC10 _{HS_1D_AL}	mg/kg	0.01	MCERTS	-	< 0.010	-	-	< 0.010
TPHCWG - Aliphatic >EC10 - EC12 _{EH_CU_1D_AL}	mg/kg	1	MCERTS	-	< 1.0	-	-	4.6
TPHCWG - Aliphatic >EC12 - EC16 _{EH_CU_1D_AL}	mg/kg	2	MCERTS	-	< 2.0	-	-	30
TPHCWG - Aliphatic >EC16 - EC21 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	-	< 8.0	-	-	46
TPHCWG - Aliphatic >EC16 - EC35 _{EH_CU_1D_AL}	mg/kg	10	MCERTS	-	< 10	-	-	280
TPHCWG - Aliphatic >EC21 - EC35 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	-	< 8.0	-	-	240
TPHCWG - Aliphatic >EC35 - EC44 _{EH_CU_1D_AL}	mg/kg	8.4	NONE	-	< 8.4	-	-	87
TPHCWG - Aliphatic >EC5 - EC35 _{EH_CU+HS_1D_AL}	mg/kg	10	NONE	-	< 10	-	-	320
TPHCWG - Aliphatic >EC5 - EC44 _{EH_CU+HS_1D_AL}	mg/kg	10	NONE	-	< 10	-	-	400

TPHCWG - Aromatic >EC5 - EC7 _{HS_1D_AR}	mg/kg	0.01	MCERTS	-	< 0.010	-	-	< 0.010
TPHCWG - Aromatic >EC7 - EC8 _{HS_1D_AR}	mg/kg	0.01	MCERTS	-	< 0.010	-	-	< 0.010
TPHCWG - Aromatic >EC8 - EC10 _{HS_1D_AR}	mg/kg	0.02	MCERTS	-	< 0.020	-	-	< 0.020
TPHCWG - Aromatic >EC10 - EC12 _{EH_CU_1D_AR}	mg/kg	1	MCERTS	-	< 1.0	-	-	6.6
TPHCWG - Aromatic >EC12 - EC16 _{EH_CU_1D_AR}	mg/kg	2	MCERTS	-	< 2.0	-	-	140



Analytical Report Number: 24-046672
Project / Site name: Church Lane Moston

Lab Sample Number				342556	342557	342558	342559	342560
Sample Reference				BH1-ES2	BH1-ES3	BH2-ES1	BH2-ES2	BH3-ES1
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.50	1.50	0.50	1.50	0.50
Date Sampled				04/10/2024	04/10/2024	04/10/2024	04/10/2024	04/10/2024
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status					
TPHCWG - Aromatic >EC16 - EC21 EH_CU_1D_AR	mg/kg	10	MCERTS	-	< 10	-	-	810
TPHCWG - Aromatic >EC21 - EC35 EH_CU_1D_AR	mg/kg	10	MCERTS	-	< 10	-	-	1700
TPHCWG - Aromatic >EC35 - EC44 EH_CU_1D_AR	mg/kg	8.4	NONE	-	< 8.4	-	-	400
TPHCWG - Aromatic >EC5 - EC35 EH_CU+HS_1D_AR	mg/kg	10	NONE	-	< 10	-	-	2700
TPHCWG - Aromatic >EC5 - EC44 EH_CU+HS_1D_AR	mg/kg	10	NONE	-	< 10	-	-	3000

VOCs

Chloromethane	µg/kg	5	MCERTS	-	< 5.0	-	-	-
Chloroethane	µg/kg	5	MCERTS	-	< 5.0	-	-	-
Bromomethane	µg/kg	5	MCERTS	-	< 5.0	-	-	-
Vinyl Chloride	µg/kg	5	NONE	-	< 5.0	-	-	-
Trichlorofluoromethane	µg/kg	5	MCERTS	-	< 5.0	-	-	-
1,1-Dichloroethene	µg/kg	5	MCERTS	-	< 5.0	-	-	-
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	5	MCERTS	-	< 5.0	-	-	-
Trans 1,2-dichloroethylene	µg/kg	5	MCERTS	-	< 5.0	-	-	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	MCERTS	-	< 5.0	-	-	< 5.0
1,1-Dichloroethane	µg/kg	5	MCERTS	-	< 5.0	-	-	-
2,2-Dichloropropane	µg/kg	5	NONE	-	< 5.0	-	-	-
Chloroform	µg/kg	5	MCERTS	-	< 5.0	-	-	-
1,1,1-Trichloroethane	µg/kg	5	MCERTS	-	< 5.0	-	-	-
1,2-Dichloroethane	µg/kg	7	MCERTS	-	< 7.0	-	-	-
1,1-Dichloropropene	µg/kg	5	MCERTS	-	< 5.0	-	-	-
Cis-1,2-dichloroethene	µg/kg	5	MCERTS	-	< 5.0	-	-	-
Benzene	µg/kg	5	MCERTS	-	< 5.0	-	-	< 5.0
Carbontetrachloride	µg/kg	5	MCERTS	-	< 5.0	-	-	-
1,2-Dichloropropane	µg/kg	6	MCERTS	-	< 6.0	-	-	-
Trichloroethene	µg/kg	10	MCERTS	-	< 10	-	-	-
Dibromomethane	µg/kg	5	MCERTS	-	< 5.0	-	-	-
Bromodichloromethane	µg/kg	5	MCERTS	-	< 5.0	-	-	-
Cis-1,3-dichloropropene	µg/kg	5	MCERTS	-	< 5.0	-	-	-
Trans-1,3-dichloropropene	µg/kg	10	MCERTS	-	< 10	-	-	-
Toluene	µg/kg	5	MCERTS	-	< 5.0	-	-	< 5.0
1,1,2-Trichloroethane	µg/kg	6	MCERTS	-	< 6.0	-	-	-
1,3-Dichloropropane	µg/kg	5	MCERTS	-	< 5.0	-	-	-
Dibromochloromethane	µg/kg	5	MCERTS	-	< 5.0	-	-	-
Tetrachloroethene	µg/kg	5	MCERTS	-	< 5.0	-	-	-
1,2-Dibromoethane	µg/kg	5	MCERTS	-	< 5.0	-	-	-
Chlorobenzene	µg/kg	5	MCERTS	-	< 5.0	-	-	-
1,1,1,2-Tetrachloroethane	µg/kg	5	MCERTS	-	< 5.0	-	-	-
Ethylbenzene	µg/kg	5	MCERTS	-	< 5.0	-	-	< 5.0
p & m-Xylene	µg/kg	8	MCERTS	-	< 8.0	-	-	< 8.0
Styrene	µg/kg	5	MCERTS	-	< 5.0	-	-	-
Bromoform	µg/kg	5	MCERTS	-	< 5.0	-	-	-
o-Xylene	µg/kg	5	MCERTS	-	< 5.0	-	-	< 5.0
Isopropylbenzene	µg/kg	5	MCERTS	-	< 5.0	-	-	-
1,1,2,2-Tetrachloroethane	µg/kg	5	NONE	-	< 5.0	-	-	-
Bromobenzene	µg/kg	5	MCERTS	-	< 5.0	-	-	-
n-Propylbenzene	µg/kg	5	MCERTS	-	< 5.0	-	-	-
2-Chlorotoluene	µg/kg	5	MCERTS	-	< 5.0	-	-	-
4-Chlorotoluene	µg/kg	5	MCERTS	-	< 5.0	-	-	-
1,3,5-Trimethylbenzene	µg/kg	5	MCERTS	-	< 5.0	-	-	-
tert-Butylbenzene	µg/kg	5	MCERTS	-	< 5.0	-	-	-
1,2,4-Trimethylbenzene	µg/kg	5	MCERTS	-	< 5.0	-	-	-

Analytical Report Number: 24-046672
Project / Site name: Church Lane Moston

Lab Sample Number				342556	342557	342558	342559	342560
Sample Reference				BH1-ES2	BH1-ES3	BH2-ES1	BH2-ES2	BH3-ES1
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.50	1.50	0.50	1.50	0.50
Date Sampled				04/10/2024	04/10/2024	04/10/2024	04/10/2024	04/10/2024
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status					
sec-Butylbenzene	µg/kg	5	MCERTS	-	< 5.0	-	-	-
1,3-Dichlorobenzene	µg/kg	5	MCERTS	-	< 5.0	-	-	-
p-Isopropyltoluene	µg/kg	5	MCERTS	-	< 5.0	-	-	-
1,4-Dichlorobenzene	µg/kg	5	MCERTS	-	< 5.0	-	-	-
1,2-Dichlorobenzene	µg/kg	5	MCERTS	-	< 5.0	-	-	-
Butylbenzene	µg/kg	5	MCERTS	-	< 5.0	-	-	-
1,2-Dibromo-3-chloropropane	µg/kg	8	MCERTS	-	< 8.0	-	-	-
1,2,4-Trichlorobenzene	µg/kg	5	MCERTS	-	< 5.0	-	-	-
Hexachlorobutadiene	µg/kg	5	MCERTS	-	< 5.0	-	-	-
1,2,3-Trichlorobenzene	µg/kg	5	MCERTS	-	< 5.0	-	-	-

SVOCs

Aniline	mg/kg	0.1	NONE	-	< 0.1	-	-	-
Phenol	mg/kg	0.2	ISO 17025	-	< 0.2	-	-	-
2-Chlorophenol	mg/kg	0.1	MCERTS	-	< 0.1	-	-	-
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	-	< 0.2	-	-	-
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	-	< 0.2	-	-	-
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	-	< 0.1	-	-	-
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	-	< 0.2	-	-	-
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	-	< 0.1	-	-	-
2-Methylphenol	mg/kg	0.3	MCERTS	-	< 0.3	-	-	-
Hexachloroethane	mg/kg	0.05	ISO 17025	-	< 0.05	-	-	-
Nitrobenzene	mg/kg	0.3	MCERTS	-	< 0.3	-	-	-
4-Methylphenol	mg/kg	0.2	NONE	-	< 0.2	-	-	-
Isophorone	mg/kg	0.2	MCERTS	-	< 0.2	-	-	-
2-Nitrophenol	mg/kg	0.3	NONE	-	< 0.3	-	-	-
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	-	< 0.3	-	-	-
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	-	< 0.3	-	-	-
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	-	< 0.3	-	-	-
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	-	< 0.3	-	-	-
4-Chloroaniline	mg/kg	0.1	NONE	-	< 0.1	-	-	-
Hexachlorobutadiene	mg/kg	0.1	MCERTS	-	< 0.1	-	-	-
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	-	< 0.1	-	-	-
2,4,6-Trichlorophenol	mg/kg	0.1	NONE	-	< 0.1	-	-	-
2,4,5-Trichlorophenol	mg/kg	0.2	NONE	-	< 0.2	-	-	-
2-Methylnaphthalene	mg/kg	0.1	NONE	-	< 0.1	-	-	-
2-Chloronaphthalene	mg/kg	0.1	MCERTS	-	< 0.1	-	-	-
Dimethylphthalate	mg/kg	0.1	MCERTS	-	< 0.1	-	-	-
2,6-Dinitrotoluene	mg/kg	0.1	NONE	-	< 0.1	-	-	-
2,4-Dinitrotoluene	mg/kg	0.2	NONE	-	< 0.2	-	-	-
Dibenzofuran	mg/kg	0.2	MCERTS	-	< 0.2	-	-	-
4-Chlorophenyl phenyl ether	mg/kg	0.3	MCERTS	-	< 0.3	-	-	-
Diethyl phthalate	mg/kg	0.2	MCERTS	-	< 0.2	-	-	-
4-Nitroaniline	mg/kg	0.2	NONE	-	< 0.2	-	-	-
Azobenzene	mg/kg	0.3	NONE	-	< 0.3	-	-	-
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	-	< 0.2	-	-	-
Hexachlorobenzene	mg/kg	0.3	MCERTS	-	< 0.30	-	-	-
Carbazole	mg/kg	0.3	MCERTS	-	< 0.3	-	-	-
Dibutyl phthalate	mg/kg	0.2	NONE	-	< 0.2	-	-	-
Anthraquinone	mg/kg	0.3	NONE	-	< 0.3	-	-	-
Butyl benzyl phthalate	mg/kg	0.3	NONE	-	< 0.3	-	-	-

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 24-046672
Project / Site name: Church Lane Moston

Lab Sample Number				342561	342562	342563	342564	342565
Sample Reference				BH3-ES2	BH4-ES1	BH4-ES2	BH5-ES1	BH5-ES2
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				2.00	0.50	1.50	1.00	2.00
Date Sampled				04/10/2024	04/10/2024	04/10/2024	04/10/2024	04/10/2024
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status					

Stone Content	%	0.1	NONE	< 0.1	11.7	< 0.1	< 0.1	21.8
Moisture Content	%	0.01	NONE	14	18	17	21	15
Total mass of sample received	kg	0.1	NONE	0.8	0.8	0.8	0.8	0.8

Asbestos

Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected	Detected
Asbestos Analyst ID	N/A	N/A	N/A	DKI	DKI	DKI	DKI	DKI
Actinolite detected	Type	N/A	ISO 17025	-	-	-	-	Not-detected
Amosite detected	Type	N/A	ISO 17025	-	-	-	-	Not-detected
Anthophyllite detected	Type	N/A	ISO 17025	-	-	-	-	Not-detected
Chrysotile detected	Type	N/A	ISO 17025	-	-	-	-	Detected
Crocidolite detected	Type	N/A	ISO 17025	-	-	-	-	Not-detected
Tremolite detected	Type	N/A	ISO 17025	-	-	-	-	Not-detected

Asbestos Containing Material Types Detected (ACM)	Type	N/A	ISO 17025	-	-	-	-	Loose Fibres
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General Inorganics

pH (L099)	pH Units	N/A	MCERTS	7.9	8.2	7.8	7.5	10.4
Electrical Conductivity	µS/cm	10	MCERTS	110	240	110	160	330
Total Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Free Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Thiocyanate as SCN	mg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Total Sulphate as SO ₄	mg/kg	50	MCERTS	170	1100	210	570	1700
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	33	180	26	50	89
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.0167	0.0887	0.013	0.0252	0.0446
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	16.7	88.7	13	25.2	44.6
Total Potential Sulphate	mg/kg	30	NONE	260	-	230	-	2700
Sulphide	mg/kg	1	MCERTS	< 1.0	5	< 1.0	2.3	8.4
Total Sulphur	mg/kg	50	MCERTS	88	980	77	410	900
Organic Matter (automated)	%	0.1	MCERTS	1.6	9.5	0.6	3.9	3.2
Total Organic Carbon (TOC) - Automated	%	0.1	MCERTS	0.9	5.5	0.3	2.3	1.9
Redox Potential	mV	-800	NONE	229.2	232.6	235.9	240.3	242.3

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
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Analytical Report Number: 24-046672
Project / Site name: Church Lane Moston

Lab Sample Number				342561	342562	342563	342564	342565
Sample Reference				BH3-ES2	BH4-ES1	BH4-ES2	BH5-ES1	BH5-ES2
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				2.00	0.50	1.50	1.00	2.00
Date Sampled				04/10/2024	04/10/2024	04/10/2024	04/10/2024	04/10/2024
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status					

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	0.25	22	< 0.05	0.09	0.37
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	5.8	< 0.05	< 0.05	0.06
Acenaphthene	mg/kg	0.05	MCERTS	0.17	32	< 0.05	0.27	0.44
Fluorene	mg/kg	0.05	MCERTS	0.11	28	< 0.05	0.18	0.27
Phenanthrene	mg/kg	0.05	MCERTS	0.84	230	< 0.05	2.1	4.4
Anthracene	mg/kg	0.05	MCERTS	0.17	61	< 0.05	0.48	0.58
Fluoranthene	mg/kg	0.05	MCERTS	0.72	230	< 0.05	3.4	6.4
Pyrene	mg/kg	0.05	MCERTS	0.66	210	< 0.05	3.1	5.6
Benzo(a)anthracene	mg/kg	0.05	MCERTS	0.24	98	< 0.05	1.7	2.4
Chrysene	mg/kg	0.05	MCERTS	0.34	110	< 0.05	1.8	2.8
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	0.25	110	< 0.05	2.1	3.5
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	0.1	40	< 0.05	0.8	1.3
Benzo(a)pyrene	mg/kg	0.05	MCERTS	0.2	100	< 0.05	1.8	2.7
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	0.12	47	< 0.05	0.83	1.4
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	12	< 0.05	0.19	0.38
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	0.15	57	< 0.05	0.96	1.6

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	4.32	1400	< 0.80	19.8	34.2
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	8.9	24	9.6	23	28
Barium (aqua regia extractable)	mg/kg	1	MCERTS	230	440	61	220	640
Boron (water soluble)	mg/kg	0.2	MCERTS	0.7	1.5	0.5	0.7	0.6
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	1.4	< 0.2	0.9	2.2
Chromium (hexavalent)	mg/kg	1.8	MCERTS	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	28	26	31	42	30
Copper (aqua regia extractable)	mg/kg	1	MCERTS	27	130	11	80	100
Lead (aqua regia extractable)	mg/kg	1	MCERTS	15	430	13	170	810
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	0.4	< 0.3	< 0.3	0.6
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	35	29	17	29	34
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	67	310	43	210	870

Petroleum Hydrocarbons

TPHCWG - Aliphatic >EC5 - EC6 _{HS_1D_AL}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	-	< 0.010
TPHCWG - Aliphatic >EC6 - EC8 _{HS_1D_AL}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	-	< 0.010
TPHCWG - Aliphatic >EC8 - EC10 _{HS_1D_AL}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	-	< 0.010
TPHCWG - Aliphatic >EC10 - EC12 _{EH_CU_1D_AL}	mg/kg	1	MCERTS	< 1.0	3.8	< 1.0	-	< 1.0
TPHCWG - Aliphatic >EC12 - EC16 _{EH_CU_1D_AL}	mg/kg	2	MCERTS	< 2.0	17	< 2.0	-	< 2.0
TPHCWG - Aliphatic >EC16 - EC21 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	< 8.0	32	< 8.0	-	< 8.0
TPHCWG - Aliphatic >EC16 - EC35 _{EH_CU_1D_AL}	mg/kg	10	MCERTS	< 10	200	< 10	-	56
TPHCWG - Aliphatic >EC21 - EC35 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	< 8.0	170	< 8.0	-	56
TPHCWG - Aliphatic >EC35 - EC44 _{EH_CU_1D_AL}	mg/kg	8.4	NONE	< 8.4	84	< 8.4	-	21
TPHCWG - Aliphatic >EC5 - EC35 _{EH_CU+HS_1D_AL}	mg/kg	10	NONE	< 10	220	< 10	-	56
TPHCWG - Aliphatic >EC5 - EC44 _{EH_CU+HS_1D_AL}	mg/kg	10	NONE	< 10	310	< 10	-	77

TPHCWG - Aromatic >EC5 - EC7 _{HS_1D_AR}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	-	< 0.010
TPHCWG - Aromatic >EC7 - EC8 _{HS_1D_AR}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	-	< 0.010
TPHCWG - Aromatic >EC8 - EC10 _{HS_1D_AR}	mg/kg	0.02	MCERTS	< 0.020	< 0.020	< 0.020	-	< 0.020
TPHCWG - Aromatic >EC10 - EC12 _{EH_CU_1D_AR}	mg/kg	1	MCERTS	< 1.0	23	< 1.0	-	< 1.0
TPHCWG - Aromatic >EC12 - EC16 _{EH_CU_1D_AR}	mg/kg	2	MCERTS	6	180	< 2.0	-	8.1



Analytical Report Number: 24-046672
Project / Site name: Church Lane Moston

Lab Sample Number				342561	342562	342563	342564	342565
Sample Reference				BH3-ES2	BH4-ES1	BH4-ES2	BH5-ES1	BH5-ES2
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				2.00	0.50	1.50	1.00	2.00
Date Sampled				04/10/2024	04/10/2024	04/10/2024	04/10/2024	04/10/2024
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status					
TPHCWG - Aromatic >EC16 - EC21 EH_CU_1D_AR	mg/kg	10	MCERTS	< 10	830	< 10	-	29
TPHCWG - Aromatic >EC21 - EC35 EH_CU_1D_AR	mg/kg	10	MCERTS	< 10	1200	< 10	-	63
TPHCWG - Aromatic >EC35 - EC44 EH_CU_1D_AR	mg/kg	8.4	NONE	< 8.4	310	< 8.4	-	28
TPHCWG - Aromatic >EC5 - EC35 EH_CU+HS_1D_AR	mg/kg	10	NONE	< 10	2200	< 10	-	100
TPHCWG - Aromatic >EC5 - EC44 EH_CU+HS_1D_AR	mg/kg	10	NONE	< 10	2600	< 10	-	130

VOCs

Chloromethane	µg/kg	5	MCERTS	< 5.0	-	< 5.0	-	< 5.0
Chloroethane	µg/kg	5	MCERTS	< 5.0	-	< 5.0	-	< 5.0
Bromomethane	µg/kg	5	MCERTS	< 5.0	-	< 5.0	-	< 5.0
Vinyl Chloride	µg/kg	5	NONE	< 5.0	-	< 5.0	-	< 5.0
Trichlorofluoromethane	µg/kg	5	MCERTS	< 5.0	-	< 5.0	-	< 5.0
1,1-Dichloroethene	µg/kg	5	MCERTS	< 5.0	-	< 5.0	-	< 5.0
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	5	MCERTS	< 5.0	-	< 5.0	-	< 5.0
Trans 1,2-dichloroethylene	µg/kg	5	MCERTS	< 5.0	-	< 5.0	-	< 5.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	-	< 5.0
1,1-Dichloroethane	µg/kg	5	MCERTS	< 5.0	-	< 5.0	-	< 5.0
2,2-Dichloropropane	µg/kg	5	NONE	< 5.0	-	< 5.0	-	< 5.0
Chloroform	µg/kg	5	MCERTS	< 5.0	-	< 5.0	-	< 5.0
1,1,1-Trichloroethane	µg/kg	5	MCERTS	< 5.0	-	< 5.0	-	< 5.0
1,2-Dichloroethane	µg/kg	7	MCERTS	< 7.0	-	< 7.0	-	< 7.0
1,1-Dichloropropene	µg/kg	5	MCERTS	< 5.0	-	< 5.0	-	< 5.0
Cis-1,2-dichloroethene	µg/kg	5	MCERTS	< 5.0	-	< 5.0	-	< 5.0
Benzene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	-	< 5.0
Carbontetrachloride	µg/kg	5	MCERTS	< 5.0	-	< 5.0	-	< 5.0
1,2-Dichloropropane	µg/kg	6	MCERTS	< 6.0	-	< 6.0	-	< 6.0
Trichloroethene	µg/kg	10	MCERTS	< 10	-	< 10	-	< 10
Dibromomethane	µg/kg	5	MCERTS	< 5.0	-	< 5.0	-	< 5.0
Bromodichloromethane	µg/kg	5	MCERTS	< 5.0	-	< 5.0	-	< 5.0
Cis-1,3-dichloropropene	µg/kg	5	MCERTS	< 5.0	-	< 5.0	-	< 5.0
Trans-1,3-dichloropropene	µg/kg	10	MCERTS	< 10	-	< 10	-	< 10
Toluene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	-	< 5.0
1,1,2-Trichloroethane	µg/kg	6	MCERTS	< 6.0	-	< 6.0	-	< 6.0
1,3-Dichloropropane	µg/kg	5	MCERTS	< 5.0	-	< 5.0	-	< 5.0
Dibromochloromethane	µg/kg	5	MCERTS	< 5.0	-	< 5.0	-	< 5.0
Tetrachloroethene	µg/kg	5	MCERTS	< 5.0	-	< 5.0	-	< 5.0
1,2-Dibromoethane	µg/kg	5	MCERTS	< 5.0	-	< 5.0	-	< 5.0
Chlorobenzene	µg/kg	5	MCERTS	< 5.0	-	< 5.0	-	< 5.0
1,1,1,2-Tetrachloroethane	µg/kg	5	MCERTS	< 5.0	-	< 5.0	-	< 5.0
Ethylbenzene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	-	< 5.0
p & m-Xylene	µg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	-	< 8.0
Styrene	µg/kg	5	MCERTS	< 5.0	-	< 5.0	-	< 5.0
Bromoform	µg/kg	5	MCERTS	< 5.0	-	< 5.0	-	< 5.0
o-Xylene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	-	< 5.0
Isopropylbenzene	µg/kg	5	MCERTS	< 5.0	-	< 5.0	-	< 5.0
1,1,2,2-Tetrachloroethane	µg/kg	5	NONE	< 5.0	-	< 5.0	-	< 5.0
Bromobenzene	µg/kg	5	MCERTS	< 5.0	-	< 5.0	-	< 5.0
n-Propylbenzene	µg/kg	5	MCERTS	< 5.0	-	< 5.0	-	< 5.0
2-Chlorotoluene	µg/kg	5	MCERTS	< 5.0	-	< 5.0	-	< 5.0
4-Chlorotoluene	µg/kg	5	MCERTS	< 5.0	-	< 5.0	-	< 5.0
1,3,5-Trimethylbenzene	µg/kg	5	MCERTS	< 5.0	-	< 5.0	-	< 5.0
tert-Butylbenzene	µg/kg	5	MCERTS	< 5.0	-	< 5.0	-	< 5.0
1,2,4-Trimethylbenzene	µg/kg	5	MCERTS	< 5.0	-	< 5.0	-	< 5.0

Analytical Report Number: 24-046672
Project / Site name: Church Lane Moston

Lab Sample Number				342561	342562	342563	342564	342565
Sample Reference				BH3-ES2	BH4-ES1	BH4-ES2	BH5-ES1	BH5-ES2
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				2.00	0.50	1.50	1.00	2.00
Date Sampled				04/10/2024	04/10/2024	04/10/2024	04/10/2024	04/10/2024
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status					
sec-Butylbenzene	µg/kg	5	MCERTS	< 5.0	-	< 5.0	-	< 5.0
1,3-Dichlorobenzene	µg/kg	5	MCERTS	< 5.0	-	< 5.0	-	< 5.0
p-Isopropyltoluene	µg/kg	5	MCERTS	< 5.0	-	< 5.0	-	< 5.0
1,4-Dichlorobenzene	µg/kg	5	MCERTS	< 5.0	-	< 5.0	-	< 5.0
1,2-Dichlorobenzene	µg/kg	5	MCERTS	< 5.0	-	< 5.0	-	< 5.0
Butylbenzene	µg/kg	5	MCERTS	< 5.0	-	< 5.0	-	< 5.0
1,2-Dibromo-3-chloropropane	µg/kg	8	MCERTS	< 8.0	-	< 8.0	-	< 8.0
1,2,4-Trichlorobenzene	µg/kg	5	MCERTS	< 5.0	-	< 5.0	-	< 5.0
Hexachlorobutadiene	µg/kg	5	MCERTS	< 5.0	-	< 5.0	-	< 5.0
1,2,3-Trichlorobenzene	µg/kg	5	MCERTS	< 5.0	-	< 5.0	-	< 5.0

SVOCs

Aniline	mg/kg	0.1	NONE	< 0.1	-	< 0.1	-	< 0.1
Phenol	mg/kg	0.2	ISO 17025	< 0.2	-	< 0.2	-	< 0.2
2-Chlorophenol	mg/kg	0.1	MCERTS	< 0.1	-	< 0.1	-	< 0.1
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	< 0.2	-	< 0.2	-	< 0.2
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2	-	< 0.2	-	< 0.2
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	< 0.1	-	< 0.1	-	< 0.1
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2	-	< 0.2	-	< 0.2
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	< 0.1	-	< 0.1	-	< 0.1
2-Methylphenol	mg/kg	0.3	MCERTS	< 0.3	-	< 0.3	-	< 0.3
Hexachloroethane	mg/kg	0.05	ISO 17025	< 0.05	-	< 0.05	-	< 0.05
Nitrobenzene	mg/kg	0.3	MCERTS	< 0.3	-	< 0.3	-	< 0.3
4-Methylphenol	mg/kg	0.2	NONE	< 0.2	-	< 0.2	-	< 0.2
Isophorone	mg/kg	0.2	MCERTS	< 0.2	-	< 0.2	-	< 0.2
2-Nitrophenol	mg/kg	0.3	NONE	< 0.3	-	< 0.3	-	< 0.3
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	< 0.3	-	< 0.3	-	< 0.3
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	< 0.3	-	< 0.3	-	< 0.3
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	< 0.3	-	< 0.3	-	< 0.3
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	< 0.3	-	< 0.3	-	< 0.3
4-Chloroaniline	mg/kg	0.1	NONE	< 0.1	-	< 0.1	-	< 0.1
Hexachlorobutadiene	mg/kg	0.1	MCERTS	< 0.1	-	< 0.1	-	< 0.1
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	< 0.1	-	< 0.1	-	< 0.1
2,4,6-Trichlorophenol	mg/kg	0.1	NONE	< 0.1	-	< 0.1	-	< 0.1
2,4,5-Trichlorophenol	mg/kg	0.2	NONE	< 0.2	-	< 0.2	-	< 0.2
2-Methylnaphthalene	mg/kg	0.1	NONE	0.1	-	< 0.1	-	0.3
2-Chloronaphthalene	mg/kg	0.1	MCERTS	< 0.1	-	< 0.1	-	< 0.1
Dimethylphthalate	mg/kg	0.1	MCERTS	< 0.1	-	< 0.1	-	< 0.1
2,6-Dinitrotoluene	mg/kg	0.1	NONE	< 0.1	-	< 0.1	-	< 0.1
2,4-Dinitrotoluene	mg/kg	0.2	NONE	< 0.2	-	< 0.2	-	< 0.2
Dibenzofuran	mg/kg	0.2	MCERTS	< 0.2	-	< 0.2	-	0.3
4-Chlorophenyl phenyl ether	mg/kg	0.3	MCERTS	< 0.3	-	< 0.3	-	< 0.3
Diethyl phthalate	mg/kg	0.2	MCERTS	< 0.2	-	< 0.2	-	< 0.2
4-Nitroaniline	mg/kg	0.2	NONE	< 0.2	-	< 0.2	-	< 0.2
Azobenzene	mg/kg	0.3	NONE	< 0.3	-	< 0.3	-	< 0.3
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	< 0.2	-	< 0.2	-	< 0.2
Hexachlorobenzene	mg/kg	0.3	MCERTS	< 0.30	-	< 0.30	-	< 0.30
Carbazole	mg/kg	0.3	MCERTS	< 0.3	-	< 0.3	-	< 0.3
Dibutyl phthalate	mg/kg	0.2	NONE	< 0.2	-	< 0.2	-	< 0.2
Anthraquinone	mg/kg	0.3	NONE	< 0.3	-	< 0.3	-	0.8
Butyl benzyl phthalate	mg/kg	0.3	NONE	< 0.3	-	< 0.3	-	< 0.3

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected



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Project / Site name: Church Lane Moston

Lab Sample Number				342566	342567	342568	342569	342570
Sample Reference				BH6-ES1	BH6-ES2	BH7-ES1	CP2-ES1	CP2-ES4
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.50	1.50	0.50	0.50	5.00
Date Sampled				04/10/2024	04/10/2024	04/10/2024	03/10/2024	03/10/2024
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)				Units	Test Limit of detection	Test Accreditation Status		

Stone Content	%	0.1	NONE	8.7	< 0.1	16	29.4	< 0.1
Moisture Content	%	0.01	NONE	16	19	16	10	16
Total mass of sample received	kg	0.1	NONE	0.8	0.8	0.8	0.8	0.8

Asbestos

Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	Detected	Not-detected	Not-detected	Not-detected	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	MBI	MBI	MBI	MBI	MBI
Actinolite detected	Type	N/A	ISO 17025	Not-detected	-	-	-	-
Amosite detected	Type	N/A	ISO 17025	Not-detected	-	-	-	-
Anthophyllite detected	Type	N/A	ISO 17025	Not-detected	-	-	-	-
Chrysotile detected	Type	N/A	ISO 17025	Detected	-	-	-	-
Crocidolite detected	Type	N/A	ISO 17025	Not-detected	-	-	-	-
Tremolite detected	Type	N/A	ISO 17025	Not-detected	-	-	-	-

Asbestos Containing Material Types Detected (ACM)	Type	N/A	ISO 17025	Loose Fibres	-	-	-	-
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General Inorganics

pH (L099)	pH Units	N/A	MCERTS	8	7.9	8	11.8	8.6
Electrical Conductivity	µS/cm	10	MCERTS	240	480	210	2100	1100
Total Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Free Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Thiocyanate as SCN	mg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Total Sulphate as SO ₄	mg/kg	50	MCERTS	1500	1300	540	2400	3300
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	82	770	92	83	2200
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.0412	0.384	0.046	0.0416	1.08
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	41.2	384	46	41.6	1080
Total Potential Sulphate	mg/kg	30	NONE	-	5400	-	3100	-
Sulphide	mg/kg	1	MCERTS	16	42	15	12	5.9
Total Sulphur	mg/kg	50	MCERTS	1400	1800	480	1000	3400
Organic Matter (automated)	%	0.1	MCERTS	3.9	2.6	3	1.5	3.2
Total Organic Carbon (TOC) - Automated	%	0.1	MCERTS	2.3	1.5	1.7	0.8	1.8
Redox Potential	mV	-800	NONE	241.4	194.4	193.9	188.6	228.2

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
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Analytical Report Number: 24-046672
Project / Site name: Church Lane Moston

Lab Sample Number				342566	342567	342568	342569	342570
Sample Reference				BH6-ES1	BH6-ES2	BH7-ES1	CP2-ES1	CP2-ES4
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.50	1.50	0.50	0.50	5.00
Date Sampled				04/10/2024	04/10/2024	04/10/2024	03/10/2024	03/10/2024
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status					

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	0.35	0.09	4.1	0.14	0.99
Acenaphthylene	mg/kg	0.05	MCERTS	0.07	< 0.05	0.25	< 0.05	0.26
Acenaphthene	mg/kg	0.05	MCERTS	0.58	0.17	7.5	0.28	4
Fluorene	mg/kg	0.05	MCERTS	0.47	0.16	5.5	0.21	4.3
Phenanthrene	mg/kg	0.05	MCERTS	3.9	1.3	40	2.6	18
Anthracene	mg/kg	0.05	MCERTS	0.99	0.35	9.6	0.75	5.9
Fluoranthene	mg/kg	0.05	MCERTS	4.6	2.7	50	5.4	18
Pyrene	mg/kg	0.05	MCERTS	4.4	2.6	48	4.8	14
Benzo(a)anthracene	mg/kg	0.05	MCERTS	2.4	1.4	26	2.6	7.8
Chrysene	mg/kg	0.05	MCERTS	2.6	1.4	27	2.7	7.3
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	2.8	1.6	30	3.4	7.9
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	1.2	0.67	14	1.4	3.3
Benzo(a)pyrene	mg/kg	0.05	MCERTS	2.8	1.4	30	2.9	7.2
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	1.3	0.65	13	1.5	3.4
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	0.34	0.13	3.1	0.29	0.76
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	1.7	0.76	19	1.7	3.9

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	30.4	15.3	326	30.6	107
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	94	14	17	10	23
Barium (aqua regia extractable)	mg/kg	1	MCERTS	270	260	240	190	350
Boron (water soluble)	mg/kg	0.2	MCERTS	0.9	2	0.6	1.2	1.9
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	12	0.7	0.5	0.9	1.6
Chromium (hexavalent)	mg/kg	1.8	MCERTS	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	42	26	26	24	36
Copper (aqua regia extractable)	mg/kg	1	MCERTS	2000	80	76	170	180
Lead (aqua regia extractable)	mg/kg	1	MCERTS	590	230	110	150	400
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	3	< 0.3	< 0.3	< 0.3	0.4
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	43	24	27	18	32
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	1.1	1.4	< 1.0	< 1.0
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	750	150	110	160	760

Petroleum Hydrocarbons

TPHCWG - Aliphatic >EC5 - EC6 _{HS_1D_AL}	mg/kg	0.01	MCERTS	-	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aliphatic >EC6 - EC8 _{HS_1D_AL}	mg/kg	0.01	MCERTS	-	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aliphatic >EC8 - EC10 _{HS_1D_AL}	mg/kg	0.01	MCERTS	-	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aliphatic >EC10 - EC12 _{EH_CU_1D_AL}	mg/kg	1	MCERTS	-	< 1.0	2.9	< 1.0	3.9
TPHCWG - Aliphatic >EC12 - EC16 _{EH_CU_1D_AL}	mg/kg	2	MCERTS	-	< 2.0	9.3	< 2.0	43
TPHCWG - Aliphatic >EC16 - EC21 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	-	13	12	< 8.0	150
TPHCWG - Aliphatic >EC16 - EC35 _{EH_CU_1D_AL}	mg/kg	10	MCERTS	-	140	49	22	730
TPHCWG - Aliphatic >EC21 - EC35 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	-	130	37	22	580
TPHCWG - Aliphatic >EC35 - EC44 _{EH_CU_1D_AL}	mg/kg	8.4	NONE	-	39	8.8	< 8.4	130
TPHCWG - Aliphatic >EC5 - EC35 _{EH_CU+HS_1D_AL}	mg/kg	10	NONE	-	140	61	22	780
TPHCWG - Aliphatic >EC5 - EC44 _{EH_CU+HS_1D_AL}	mg/kg	10	NONE	-	180	70	22	910

TPHCWG - Aromatic >EC5 - EC7 _{HS_1D_AR}	mg/kg	0.01	MCERTS	-	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aromatic >EC7 - EC8 _{HS_1D_AR}	mg/kg	0.01	MCERTS	-	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aromatic >EC8 - EC10 _{HS_1D_AR}	mg/kg	0.02	MCERTS	-	< 0.020	< 0.020	< 0.020	< 0.020
TPHCWG - Aromatic >EC10 - EC12 _{EH_CU_1D_AR}	mg/kg	1	MCERTS	-	< 1.0	9.2	< 1.0	1.5
TPHCWG - Aromatic >EC12 - EC16 _{EH_CU_1D_AR}	mg/kg	2	MCERTS	-	17	66	6	39

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Lab Sample Number				342566	342567	342568	342569	342570
Sample Reference				BH6-ES1	BH6-ES2	BH7-ES1	CP2-ES1	CP2-ES4
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.50	1.50	0.50	0.50	5.00
Date Sampled				04/10/2024	04/10/2024	04/10/2024	03/10/2024	03/10/2024
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status					
TPHCWG - Aromatic >EC16 - EC21 EH_CU_1D_AR	mg/kg	10	MCERTS	-	42	240	30	180
TPHCWG - Aromatic >EC21 - EC35 EH_CU_1D_AR	mg/kg	10	MCERTS	-	160	300	73	390
TPHCWG - Aromatic >EC35 - EC44 EH_CU_1D_AR	mg/kg	8.4	NONE	-	70	43	23	110
TPHCWG - Aromatic >EC5 - EC35 EH_CU+HS_1D_AR	mg/kg	10	NONE	-	210	620	110	610
TPHCWG - Aromatic >EC5 - EC44 EH_CU+HS_1D_AR	mg/kg	10	NONE	-	280	660	130	720

VOCs

Chloromethane	µg/kg	5	MCERTS	-	< 5.0	-	< 5.0	-
Chloroethane	µg/kg	5	MCERTS	-	< 5.0	-	< 5.0	-
Bromomethane	µg/kg	5	MCERTS	-	< 5.0	-	< 5.0	-
Vinyl Chloride	µg/kg	5	NONE	-	< 5.0	-	< 5.0	-
Trichlorofluoromethane	µg/kg	5	MCERTS	-	< 5.0	-	< 5.0	-
1,1-Dichloroethene	µg/kg	5	MCERTS	-	< 5.0	-	< 5.0	-
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	5	MCERTS	-	< 5.0	-	< 5.0	-
Trans 1,2-dichloroethylene	µg/kg	5	MCERTS	-	< 5.0	-	< 5.0	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	MCERTS	-	< 5.0	< 5.0	< 5.0	< 5.0
1,1-Dichloroethane	µg/kg	5	MCERTS	-	< 5.0	-	< 5.0	-
2,2-Dichloropropane	µg/kg	5	NONE	-	< 5.0	-	< 5.0	-
Chloroform	µg/kg	5	MCERTS	-	< 5.0	-	< 5.0	-
1,1,1-Trichloroethane	µg/kg	5	MCERTS	-	< 5.0	-	< 5.0	-
1,2-Dichloroethane	µg/kg	7	MCERTS	-	< 7.0	-	< 7.0	-
1,1-Dichloropropene	µg/kg	5	MCERTS	-	< 5.0	-	< 5.0	-
Cis-1,2-dichloroethene	µg/kg	5	MCERTS	-	< 5.0	-	< 5.0	-
Benzene	µg/kg	5	MCERTS	-	< 5.0	< 5.0	< 5.0	< 5.0
Carbontetrachloride	µg/kg	5	MCERTS	-	< 5.0	-	< 5.0	-
1,2-Dichloropropane	µg/kg	6	MCERTS	-	< 6.0	-	< 6.0	-
Trichloroethene	µg/kg	10	MCERTS	-	< 10	-	< 10	-
Dibromomethane	µg/kg	5	MCERTS	-	< 5.0	-	< 5.0	-
Bromodichloromethane	µg/kg	5	MCERTS	-	< 5.0	-	< 5.0	-
Cis-1,3-dichloropropene	µg/kg	5	MCERTS	-	< 5.0	-	< 5.0	-
Trans-1,3-dichloropropene	µg/kg	10	MCERTS	-	< 10	-	< 10	-
Toluene	µg/kg	5	MCERTS	-	< 5.0	< 5.0	< 5.0	< 5.0
1,1,2-Trichloroethane	µg/kg	6	MCERTS	-	< 6.0	-	< 6.0	-
1,3-Dichloropropane	µg/kg	5	MCERTS	-	< 5.0	-	< 5.0	-
Dibromochloromethane	µg/kg	5	MCERTS	-	< 5.0	-	< 5.0	-
Tetrachloroethene	µg/kg	5	MCERTS	-	< 5.0	-	< 5.0	-
1,2-Dibromoethane	µg/kg	5	MCERTS	-	< 5.0	-	< 5.0	-
Chlorobenzene	µg/kg	5	MCERTS	-	< 5.0	-	< 5.0	-
1,1,1,2-Tetrachloroethane	µg/kg	5	MCERTS	-	< 5.0	-	< 5.0	-
Ethylbenzene	µg/kg	5	MCERTS	-	< 5.0	< 5.0	< 5.0	< 5.0
p & m-Xylene	µg/kg	8	MCERTS	-	< 8.0	< 8.0	< 8.0	< 8.0
Styrene	µg/kg	5	MCERTS	-	< 5.0	-	< 5.0	-
Bromoform	µg/kg	5	MCERTS	-	< 5.0	-	< 5.0	-
o-Xylene	µg/kg	5	MCERTS	-	< 5.0	< 5.0	< 5.0	< 5.0
Isopropylbenzene	µg/kg	5	MCERTS	-	< 5.0	-	< 5.0	-
1,1,2,2-Tetrachloroethane	µg/kg	5	NONE	-	< 5.0	-	< 5.0	-
Bromobenzene	µg/kg	5	MCERTS	-	< 5.0	-	< 5.0	-
n-Propylbenzene	µg/kg	5	MCERTS	-	< 5.0	-	< 5.0	-
2-Chlorotoluene	µg/kg	5	MCERTS	-	< 5.0	-	< 5.0	-
4-Chlorotoluene	µg/kg	5	MCERTS	-	< 5.0	-	< 5.0	-
1,3,5-Trimethylbenzene	µg/kg	5	MCERTS	-	< 5.0	-	< 5.0	-
tert-Butylbenzene	µg/kg	5	MCERTS	-	< 5.0	-	< 5.0	-
1,2,4-Trimethylbenzene	µg/kg	5	MCERTS	-	< 5.0	-	< 5.0	-

Analytical Report Number: 24-046672
Project / Site name: Church Lane Moston

Lab Sample Number				342566	342567	342568	342569	342570
Sample Reference				BH6-ES1	BH6-ES2	BH7-ES1	CP2-ES1	CP2-ES4
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.50	1.50	0.50	0.50	5.00
Date Sampled				04/10/2024	04/10/2024	04/10/2024	03/10/2024	03/10/2024
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status					
sec-Butylbenzene	µg/kg	5	MCERTS	-	< 5.0	-	< 5.0	-
1,3-Dichlorobenzene	µg/kg	5	MCERTS	-	< 5.0	-	< 5.0	-
p-Isopropyltoluene	µg/kg	5	MCERTS	-	< 5.0	-	< 5.0	-
1,4-Dichlorobenzene	µg/kg	5	MCERTS	-	< 5.0	-	< 5.0	-
1,2-Dichlorobenzene	µg/kg	5	MCERTS	-	< 5.0	-	< 5.0	-
Butylbenzene	µg/kg	5	MCERTS	-	< 5.0	-	< 5.0	-
1,2-Dibromo-3-chloropropane	µg/kg	8	MCERTS	-	< 8.0	-	< 8.0	-
1,2,4-Trichlorobenzene	µg/kg	5	MCERTS	-	< 5.0	-	< 5.0	-
Hexachlorobutadiene	µg/kg	5	MCERTS	-	< 5.0	-	< 5.0	-
1,2,3-Trichlorobenzene	µg/kg	5	MCERTS	-	< 5.0	-	< 5.0	-

SVOCs

Aniline	mg/kg	0.1	NONE	-	< 0.1	-	< 0.1	-
Phenol	mg/kg	0.2	ISO 17025	-	< 0.2	-	< 0.2	-
2-Chlorophenol	mg/kg	0.1	MCERTS	-	< 0.1	-	< 0.1	-
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	-	< 0.2	-	< 0.2	-
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	-	< 0.2	-	< 0.2	-
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	-	< 0.1	-	< 0.1	-
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	-	< 0.2	-	< 0.2	-
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	-	< 0.1	-	< 0.1	-
2-Methylphenol	mg/kg	0.3	MCERTS	-	< 0.3	-	< 0.3	-
Hexachloroethane	mg/kg	0.05	ISO 17025	-	< 0.05	-	< 0.05	-
Nitrobenzene	mg/kg	0.3	MCERTS	-	< 0.3	-	< 0.3	-
4-Methylphenol	mg/kg	0.2	NONE	-	< 0.2	-	< 0.2	-
Isophorone	mg/kg	0.2	MCERTS	-	< 0.2	-	< 0.2	-
2-Nitrophenol	mg/kg	0.3	NONE	-	< 0.3	-	< 0.3	-
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	-	< 0.3	-	< 0.3	-
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	-	< 0.3	-	< 0.3	-
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	-	< 0.3	-	< 0.3	-
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	-	< 0.3	-	< 0.3	-
4-Chloroaniline	mg/kg	0.1	NONE	-	< 0.1	-	< 0.1	-
Hexachlorobutadiene	mg/kg	0.1	MCERTS	-	< 0.1	-	< 0.1	-
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	-	< 0.1	-	< 0.1	-
2,4,6-Trichlorophenol	mg/kg	0.1	NONE	-	< 0.1	-	< 0.1	-
2,4,5-Trichlorophenol	mg/kg	0.2	NONE	-	< 0.2	-	< 0.2	-
2-Methylnaphthalene	mg/kg	0.1	NONE	-	0.1	-	0.1	-
2-Chloronaphthalene	mg/kg	0.1	MCERTS	-	< 0.1	-	< 0.1	-
Dimethylphthalate	mg/kg	0.1	MCERTS	-	< 0.1	-	< 0.1	-
2,6-Dinitrotoluene	mg/kg	0.1	NONE	-	< 0.1	-	< 0.1	-
2,4-Dinitrotoluene	mg/kg	0.2	NONE	-	< 0.2	-	< 0.2	-
Dibenzofuran	mg/kg	0.2	MCERTS	-	< 0.2	-	< 0.2	-
4-Chlorophenyl phenyl ether	mg/kg	0.3	MCERTS	-	< 0.3	-	< 0.3	-
Diethyl phthalate	mg/kg	0.2	MCERTS	-	< 0.2	-	< 0.2	-
4-Nitroaniline	mg/kg	0.2	NONE	-	< 0.2	-	< 0.2	-
Azobenzene	mg/kg	0.3	NONE	-	< 0.3	-	< 0.3	-
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	-	< 0.2	-	< 0.2	-
Hexachlorobenzene	mg/kg	0.3	MCERTS	-	< 0.30	-	< 0.30	-
Carbazole	mg/kg	0.3	MCERTS	-	< 0.3	-	< 0.3	-
Dibutyl phthalate	mg/kg	0.2	NONE	-	< 0.2	-	< 0.2	-
Anthraquinone	mg/kg	0.3	NONE	-	< 0.3	-	< 0.3	-
Butyl benzyl phthalate	mg/kg	0.3	NONE	-	< 0.3	-	< 0.3	-

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 24-046672
Project / Site name: Church Lane Moston

Lab Sample Number				342571	342572	342573	342574	342575
Sample Reference				CP2-ES5	CP4-ES1	CP4-ES2	CP4-ES4	CP4-ES5
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				11.50	0.50	1.50	5.50	9.50
Date Sampled				03/10/2024	02/10/2024	02/10/2024	02/10/2024	02/10/2024
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status					

Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	19	21	17	15	13
Total mass of sample received	kg	0.1	NONE	0.9	0.9	0.8	0.8	0.8

Asbestos

Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	Not-detected	Detected	Not-detected	Not-detected	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	MBI	MBI	MBI	EWS	EWS
Actinolite detected	Type	N/A	ISO 17025	-	Not-detected	-	-	-
Amosite detected	Type	N/A	ISO 17025	-	Not-detected	-	-	-
Anthophyllite detected	Type	N/A	ISO 17025	-	Not-detected	-	-	-
Chrysotile detected	Type	N/A	ISO 17025	-	Detected	-	-	-
Crocidolite detected	Type	N/A	ISO 17025	-	Not-detected	-	-	-
Tremolite detected	Type	N/A	ISO 17025	-	Not-detected	-	-	-

Asbestos Containing Material Types Detected (ACM)	Type	N/A	ISO 17025	-	Loose Fibrous Debris	-	-	-
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General Inorganics

pH (L099)	pH Units	N/A	MCERTS	7.1	8.1	9	7.7	8.1
Electrical Conductivity	µS/cm	10	MCERTS	310	260	430	1700	330
Total Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	1.9	< 1.0	< 1.0
Free Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Thiocyanate as SCN	mg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Total Sulphate as SO ₄	mg/kg	50	MCERTS	350	1000	1400	4400	380
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	290	98	750	3800	260
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.143	0.0488	0.377	1.9	0.132
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	143	48.8	377	1900	132
Total Potential Sulphate	mg/kg	30	NONE	2200	-	5700	-	980
Sulphide	mg/kg	1	MCERTS	6.4	7	49	5	5.8
Total Sulphur	mg/kg	50	MCERTS	740	810	1900	2100	330
Organic Matter (automated)	%	0.1	MCERTS	2.3	4.8	1.8	2.8	1.4
Total Organic Carbon (TOC) - Automated	%	0.1	MCERTS	1.3	2.8	1.1	1.6	0.8
Redox Potential	mV	-800	NONE	225.7	222.1	234.8	226	230.6

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
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Analytical Report Number: 24-046672
Project / Site name: Church Lane Moston

Lab Sample Number	342571	342572	342573	342574	342575
Sample Reference	CP2-ES5	CP4-ES1	CP4-ES2	CP4-ES4	CP4-ES5
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)	11.50	0.50	1.50	5.50	9.50
Date Sampled	03/10/2024	02/10/2024	02/10/2024	02/10/2024	02/10/2024
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	1.2	0.74	0.53	25	0.2
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	0.59	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	1.7	0.59	1	27	0.34
Fluorene	mg/kg	0.05	MCERTS	1.1	0.54	0.77	23	0.3
Phenanthrene	mg/kg	0.05	MCERTS	6.8	4.8	3.6	170	1.9
Anthracene	mg/kg	0.05	MCERTS	1.9	1.5	1.1	31	0.53
Fluoranthene	mg/kg	0.05	MCERTS	7.3	7.1	5.2	160	2.1
Pyrene	mg/kg	0.05	MCERTS	6.2	6.7	4.7	140	1.8
Benzo(a)anthracene	mg/kg	0.05	MCERTS	3	3.5	2.3	49	0.99
Chrysene	mg/kg	0.05	MCERTS	3.3	3.9	2.4	44	0.84
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	3.2	4.3	2.8	53	1
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	1.4	1.5	1.2	18	0.43
Benzo(a)pyrene	mg/kg	0.05	MCERTS	2.9	3.6	2.4	45	0.9
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	1.4	2	1.2	21	0.43
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	0.23	0.44	0.25	4.4	0.1
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	1.5	2.1	1.3	24	0.51

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	42.9	43.1	30.8	837	12.4
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	15	14	15	16	8.4
Barium (aqua regia extractable)	mg/kg	1	MCERTS	130	340	220	260	180
Boron (water soluble)	mg/kg	0.2	MCERTS	1.4	0.3	1.1	1.4	0.9
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	0.3	1.3	1.2	1.6	0.3
Chromium (hexavalent)	mg/kg	1.8	MCERTS	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	23	25	22	26	25
Copper (aqua regia extractable)	mg/kg	1	MCERTS	33	190	39	95	32
Lead (aqua regia extractable)	mg/kg	1	MCERTS	42	150	69	230	38
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	0.6	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	27	23	21	27	32
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	95	230	140	200	92

Petroleum Hydrocarbons

TPHCWG - Aliphatic >EC5 - EC6 _{HS_1D_AL}	mg/kg	0.01	MCERTS	-	-	< 0.010	< 0.010	-
TPHCWG - Aliphatic >EC6 - EC8 _{HS_1D_AL}	mg/kg	0.01	MCERTS	-	-	< 0.010	< 0.010	-
TPHCWG - Aliphatic >EC8 - EC10 _{HS_1D_AL}	mg/kg	0.01	MCERTS	-	-	< 0.010	< 0.010	-
TPHCWG - Aliphatic >EC10 - EC12 _{EH_CU_1D_AL}	mg/kg	1	MCERTS	-	-	< 1.0	< 1.0	-
TPHCWG - Aliphatic >EC12 - EC16 _{EH_CU_1D_AL}	mg/kg	2	MCERTS	-	-	6.1	6.4	-
TPHCWG - Aliphatic >EC16 - EC21 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	-	-	24	12	-
TPHCWG - Aliphatic >EC16 - EC35 _{EH_CU_1D_AL}	mg/kg	10	MCERTS	-	-	85	56	-
TPHCWG - Aliphatic >EC21 - EC35 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	-	-	61	45	-
TPHCWG - Aliphatic >EC35 - EC44 _{EH_CU_1D_AL}	mg/kg	8.4	NONE	-	-	24	18	-
TPHCWG - Aliphatic >EC5 - EC35 _{EH_CU+HS_1D_AL}	mg/kg	10	NONE	-	-	91	63	-
TPHCWG - Aliphatic >EC5 - EC44 _{EH_CU+HS_1D_AL}	mg/kg	10	NONE	-	-	120	81	-

TPHCWG - Aromatic >EC5 - EC7 _{HS_1D_AR}	mg/kg	0.01	MCERTS	-	-	< 0.010	< 0.010	-
TPHCWG - Aromatic >EC7 - EC8 _{HS_1D_AR}	mg/kg	0.01	MCERTS	-	-	< 0.010	0.016	-
TPHCWG - Aromatic >EC8 - EC10 _{HS_1D_AR}	mg/kg	0.02	MCERTS	-	-	< 0.020	0.057	-
TPHCWG - Aromatic >EC10 - EC12 _{EH_CU_1D_AR}	mg/kg	1	MCERTS	-	-	< 1.0	17	-
TPHCWG - Aromatic >EC12 - EC16 _{EH_CU_1D_AR}	mg/kg	2	MCERTS	-	-	14	120	-

Analytical Report Number: 24-046672
 Project / Site name: Church Lane Moston

Lab Sample Number				342571	342572	342573	342574	342575
Sample Reference				CP2-ES5	CP4-ES1	CP4-ES2	CP4-ES4	CP4-ES5
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				11.50	0.50	1.50	5.50	9.50
Date Sampled				03/10/2024	02/10/2024	02/10/2024	02/10/2024	02/10/2024
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)				Units	Test Limit of detection	Test Accreditation Status		
TPHCWG - Aromatic >EC16 - EC21 EH_CU_1D_AR				mg/kg	10	MCERTS	-	-
TPHCWG - Aromatic >EC21 - EC35 EH_CU_1D_AR				mg/kg	10	MCERTS	-	-
TPHCWG - Aromatic >EC35 - EC44 EH_CU_1D_AR				mg/kg	8.4	NONE	-	-
TPHCWG - Aromatic >EC5 - EC35 EH_CU+HS_1D_AR				mg/kg	10	NONE	-	-
TPHCWG - Aromatic >EC5 - EC44 EH_CU+HS_1D_AR				mg/kg	10	NONE	-	-

VOCs

Chloromethane	µg/kg	5	MCERTS	-	-	< 5.0	-	-
Chloroethane	µg/kg	5	MCERTS	-	-	< 5.0	-	-
Bromomethane	µg/kg	5	MCERTS	-	-	< 5.0	-	-
Vinyl Chloride	µg/kg	5	NONE	-	-	< 5.0	-	-
Trichlorofluoromethane	µg/kg	5	MCERTS	-	-	< 5.0	-	-
1,1-Dichloroethene	µg/kg	5	MCERTS	-	-	< 5.0	-	-
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	5	MCERTS	-	-	< 5.0	-	-
Trans 1,2-dichloroethylene	µg/kg	5	MCERTS	-	-	< 5.0	-	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	MCERTS	-	-	< 5.0	< 5.0	-
1,1-Dichloroethane	µg/kg	5	MCERTS	-	-	< 5.0	-	-
2,2-Dichloropropane	µg/kg	5	NONE	-	-	< 5.0	-	-
Chloroform	µg/kg	5	MCERTS	-	-	< 5.0	-	-
1,1,1-Trichloroethane	µg/kg	5	MCERTS	-	-	< 5.0	-	-
1,2-Dichloroethane	µg/kg	7	MCERTS	-	-	< 7.0	-	-
1,1-Dichloropropene	µg/kg	5	MCERTS	-	-	< 5.0	-	-
Cis-1,2-dichloroethene	µg/kg	5	MCERTS	-	-	< 5.0	-	-
Benzene	µg/kg	5	MCERTS	-	-	< 5.0	< 5.0	-
Carbontetrachloride	µg/kg	5	MCERTS	-	-	< 5.0	-	-
1,2-Dichloropropane	µg/kg	6	MCERTS	-	-	< 6.0	-	-
Trichloroethene	µg/kg	10	MCERTS	-	-	< 10	-	-
Dibromomethane	µg/kg	5	MCERTS	-	-	< 5.0	-	-
Bromodichloromethane	µg/kg	5	MCERTS	-	-	< 5.0	-	-
Cis-1,3-dichloropropene	µg/kg	5	MCERTS	-	-	< 5.0	-	-
Trans-1,3-dichloropropene	µg/kg	10	MCERTS	-	-	< 10	-	-
Toluene	µg/kg	5	MCERTS	-	-	< 5.0	14	-
1,1,2-Trichloroethane	µg/kg	6	MCERTS	-	-	< 6.0	-	-
1,3-Dichloropropane	µg/kg	5	MCERTS	-	-	< 5.0	-	-
Dibromochloromethane	µg/kg	5	MCERTS	-	-	< 5.0	-	-
Tetrachloroethene	µg/kg	5	MCERTS	-	-	< 5.0	-	-
1,2-Dibromoethane	µg/kg	5	MCERTS	-	-	< 5.0	-	-
Chlorobenzene	µg/kg	5	MCERTS	-	-	< 5.0	-	-
1,1,1,2-Tetrachloroethane	µg/kg	5	MCERTS	-	-	< 5.0	-	-
Ethylbenzene	µg/kg	5	MCERTS	-	-	< 5.0	16	-
p & m-Xylene	µg/kg	8	MCERTS	-	-	< 8.0	14	-
Styrene	µg/kg	5	MCERTS	-	-	< 5.0	-	-
Bromoform	µg/kg	5	MCERTS	-	-	< 5.0	-	-
o-Xylene	µg/kg	5	MCERTS	-	-	< 5.0	13	-
Isopropylbenzene	µg/kg	5	MCERTS	-	-	< 5.0	-	-
1,1,2,2-Tetrachloroethane	µg/kg	5	NONE	-	-	< 5.0	-	-
Bromobenzene	µg/kg	5	MCERTS	-	-	< 5.0	-	-
n-Propylbenzene	µg/kg	5	MCERTS	-	-	< 5.0	-	-
2-Chlorotoluene	µg/kg	5	MCERTS	-	-	< 5.0	-	-
4-Chlorotoluene	µg/kg	5	MCERTS	-	-	< 5.0	-	-
1,3,5-Trimethylbenzene	µg/kg	5	MCERTS	-	-	< 5.0	-	-
tert-Butylbenzene	µg/kg	5	MCERTS	-	-	< 5.0	-	-
1,2,4-Trimethylbenzene	µg/kg	5	MCERTS	-	-	< 5.0	-	-

Analytical Report Number: 24-046672
Project / Site name: Church Lane Moston

Lab Sample Number				342571	342572	342573	342574	342575
Sample Reference				CP2-ES5	CP4-ES1	CP4-ES2	CP4-ES4	CP4-ES5
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				11.50	0.50	1.50	5.50	9.50
Date Sampled				03/10/2024	02/10/2024	02/10/2024	02/10/2024	02/10/2024
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status					
sec-Butylbenzene	µg/kg	5	MCERTS	-	-	< 5.0	-	-
1,3-Dichlorobenzene	µg/kg	5	MCERTS	-	-	< 5.0	-	-
p-Isopropyltoluene	µg/kg	5	MCERTS	-	-	< 5.0	-	-
1,4-Dichlorobenzene	µg/kg	5	MCERTS	-	-	< 5.0	-	-
1,2-Dichlorobenzene	µg/kg	5	MCERTS	-	-	< 5.0	-	-
Butylbenzene	µg/kg	5	MCERTS	-	-	< 5.0	-	-
1,2-Dibromo-3-chloropropane	µg/kg	8	MCERTS	-	-	< 8.0	-	-
1,2,4-Trichlorobenzene	µg/kg	5	MCERTS	-	-	< 5.0	-	-
Hexachlorobutadiene	µg/kg	5	MCERTS	-	-	< 5.0	-	-
1,2,3-Trichlorobenzene	µg/kg	5	MCERTS	-	-	< 5.0	-	-

SVOCs

Aniline	mg/kg	0.1	NONE	-	-	< 0.1	-	-
Phenol	mg/kg	0.2	ISO 17025	-	-	< 0.2	-	-
2-Chlorophenol	mg/kg	0.1	MCERTS	-	-	< 0.1	-	-
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	-	-	< 0.2	-	-
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	-	-	< 0.2	-	-
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	-	-	< 0.1	-	-
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	-	-	< 0.2	-	-
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	-	-	< 0.1	-	-
2-Methylphenol	mg/kg	0.3	MCERTS	-	-	< 0.3	-	-
Hexachloroethane	mg/kg	0.05	ISO 17025	-	-	< 0.05	-	-
Nitrobenzene	mg/kg	0.3	MCERTS	-	-	< 0.3	-	-
4-Methylphenol	mg/kg	0.2	NONE	-	-	< 0.2	-	-
Isophorone	mg/kg	0.2	MCERTS	-	-	< 0.2	-	-
2-Nitrophenol	mg/kg	0.3	NONE	-	-	< 0.3	-	-
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	-	-	< 0.3	-	-
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	-	-	< 0.3	-	-
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	-	-	< 0.3	-	-
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	-	-	< 0.3	-	-
4-Chloroaniline	mg/kg	0.1	NONE	-	-	< 0.1	-	-
Hexachlorobutadiene	mg/kg	0.1	MCERTS	-	-	< 0.1	-	-
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	-	-	< 0.1	-	-
2,4,6-Trichlorophenol	mg/kg	0.1	NONE	-	-	< 0.1	-	-
2,4,5-Trichlorophenol	mg/kg	0.2	NONE	-	-	< 0.2	-	-
2-Methylnaphthalene	mg/kg	0.1	NONE	-	-	0.3	-	-
2-Chloronaphthalene	mg/kg	0.1	MCERTS	-	-	< 0.1	-	-
Dimethylphthalate	mg/kg	0.1	MCERTS	-	-	< 0.1	-	-
2,6-Dinitrotoluene	mg/kg	0.1	NONE	-	-	< 0.1	-	-
2,4-Dinitrotoluene	mg/kg	0.2	NONE	-	-	< 0.2	-	-
Dibenzofuran	mg/kg	0.2	MCERTS	-	-	0.6	-	-
4-Chlorophenyl phenyl ether	mg/kg	0.3	MCERTS	-	-	< 0.3	-	-
Diethyl phthalate	mg/kg	0.2	MCERTS	-	-	< 0.2	-	-
4-Nitroaniline	mg/kg	0.2	NONE	-	-	< 0.2	-	-
Azobenzene	mg/kg	0.3	NONE	-	-	< 0.3	-	-
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	-	-	< 0.2	-	-
Hexachlorobenzene	mg/kg	0.3	MCERTS	-	-	< 0.30	-	-
Carbazole	mg/kg	0.3	MCERTS	-	-	< 0.3	-	-
Dibutyl phthalate	mg/kg	0.2	NONE	-	-	< 0.2	-	-
Anthraquinone	mg/kg	0.3	NONE	-	-	< 0.3	-	-
Butyl benzyl phthalate	mg/kg	0.3	NONE	-	-	< 0.3	-	-

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected



Analytical Report Number : 24-046672
Project / Site name: Church Lane Moston

* 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 *
342556	BH1-ES2	None Supplied	0.5	Brown clay and sand with gravel
342557	BH1-ES3	None Supplied	1.5	Brown clay and sand with gravel
342558	BH2-ES1	None Supplied	0.5	Brown loam and clay with gravel
342559	BH2-ES2	None Supplied	1.5	Brown clay and sand with gravel
342560	BH3-ES1	None Supplied	0.5	Brown loam and clay with gravel and stones
342561	BH3-ES2	None Supplied	2	Brown clay and sand with gravel
342562	BH4-ES1	None Supplied	0.5	Brown loam and clay with gravel and stones
342563	BH4-ES2	None Supplied	1.5	Brown clay and sand with gravel
342564	BH5-ES1	None Supplied	1	Brown loam and clay with gravel and vegetation
342565	BH5-ES2	None Supplied	2	Brown clay and sand with gravel and stones
342566	BH6-ES1	None Supplied	0.5	Brown loam and clay with gravel and stones
342567	BH6-ES2	None Supplied	1.5	Brown clay and sand with gravel
342568	BH7-ES1	None Supplied	0.5	Brown clay and sand with gravel and stones
342569	CP2-ES1	None Supplied	0.5	Brown loam and clay with gravel and stones
342570	CP2-ES4	None Supplied	5	Brown clay and sand with gravel
342571	CP2-ES5	None Supplied	11.5	Brown clay and loam with gravel and vegetation
342572	CP4-ES1	None Supplied	0.5	Brown loam and clay with gravel and vegetation
342573	CP4-ES2	None Supplied	1.5	Brown clay and sand with gravel
342574	CP4-ES4	None Supplied	5.5	Brown loam and sand with gravel and vegetation
342575	CP4-ES5	None Supplied	9.5	Brown clay and loam with gravel and vegetation

Analytical Report Number : 24-046672
Project / Site name: Church Lane Moston

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)

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 dispersion staining techniques	In-house method based on HSG 248, 2021	A001B	D	ISO 17025
Organic matter (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate (Walkley Black Method)	In-house method	L009B	D	MCERTS
Total organic carbon (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate (Walkley Black Method)	In-house method	L009B	D	MCERTS
Sulphide in soil	Determination of sulphide in soil by acidification and heating to liberate hydrogen sulphide, trapped in an alkaline solution then assayed by ion selective electrode	In-house method	L010-PL	D	MCERTS
Moisture Content	Moisture content, determined gravimetrically (up to 30°C)	In-house method	L019B	W	NONE
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.	L019B	D	NONE
Electrical conductivity of soil	Determination of electrical conductivity in soil by electrometric measurement	In-house method	L031B	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	L038B	D	MCERTS
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES	In-house method based on Second Site Properties version 3	L038B	D	MCERTS
Total sulphate (as SO ₄ in soil)	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES	In-house method	L038B	D	MCERTS
Sulphate, water soluble, in soil (16hr extraction)	Sulphate, water soluble, in soil (16hr extraction)	In-house method	L038B	D	MCERTS
Total Sulphur in soil	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES	In-house method	L038B	D	MCERTS
Total potential sulphate in soil	Determination of total potential sulphate in soil by calculation from total sulphur	By calculation - In-house method based on TRL 447 report.	L038B	D	NONE
Speciated PAHs and/or Semi-volatile organic compounds in soil	Determination of semi-volatile organic compounds (including PAH) in soil by extraction in dichloromethane and hexane followed by GC-MS	In-house method based on USEPA 8270	L064B	D	MCERTS
BTEX and/or Volatile organic compounds in soil	Determination of volatile organic compounds in soil by headspace GC-MS	In-house method based on USEPA 8260	L073B	W	MCERTS
Total petroleum hydrocarbons with carbon banding by GC-FID/GC-MS HS in soil	Determination of total petroleum hydrocarbons in soil by GC-FID/GC-MS HS with carbon banding aliphatic and aromatic	In-house method	L076B/L088-PL	D/W	MCERTS
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in NaOH and addition of 1,5 diphenylcarbazide followed by colorimetry	In-house method	L080-PL	W	MCERTS

Analytical Report Number : 24-046672
Project / Site name: Church Lane Moston

Water matrix abbreviations:
Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Free cyanide in soil	Determination of free cyanide by distillation followed by colorimetry	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	MCERTS
Monohydric phenols in soil	Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	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	L080-PL	W	MCERTS
Thiocyanate in soil	Determination of thiocyanate in soil by extraction in water followed by acidification followed by addition of ferric nitrate followed by discrete analyser (spectrophotometer)	In-house method	L082B	D	NONE
Redox Potential of soil	Determination of redox potential in soil by electrometric measurement versus Ag/AgCl electrode	In-house method based on Method 3580B	L084-PL	W	NONE
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement	In-house method	L099-PL	D	MCERTS

For method numbers ending in 'UK' or 'A' analysis have been carried out in our laboratory in the United Kingdom (Watford).
For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).
For method numbers ending in 'PL' or 'B' 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.
Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.

Information in Support of Analytical Results

List of HWOL Acronyms and Operators

Acronym	Descriptions
HS	Headspace Analysis
MS	Mass spectrometry
FID	Flame Ionisation Detector
GC	Gas Chromatography
EH	Extractable Hydrocarbons (i.e. everything extracted by the solvent(s))
CU	Clean-up - e.g. by Florisil®, silica gel
1D	GC - Single coil/column gas chromatography
2D	GC-GC - Double coil/column gas chromatography
Total	Aliphatics & Aromatics
AL	Aliphatics
AR	Aromatics
#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 e.g. EH+HS_Total or EH_CU+HS_Total

Quality control parameter failure associated with individual result applies to calculated sum of individuals.
The result for sum should be interpreted with caution

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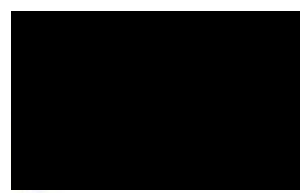
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Analytical Report Number : 24-047471

Project / Site name:	Church Lane, Moston	Samples received on:	11/10/2024
Your job number:	GUK-0524-02	Samples instructed on/ Analysis started on:	11/10/2024
Your order number:		Analysis completed by:	22/10/2024
Report Issue Number:	1	Report issued on:	22/10/2024
Samples Analysed:	12 soil samples		

Signed:



Dominika Liana
Junior Reporting Specialist
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.

Analytical Report Number: 24-047471
Project / Site name: Church Lane, Moston

Lab Sample Number				347142	347143	347144	347145	347146
Sample Reference				CP1-ES1	CP1-ES2	CP1-ES3	CP3-ES1	CP3-ES2
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				1.00	4.00	8.90	1.00	4.00
Date Sampled				10/10/2024	10/10/2024	10/10/2024	09/10/2024	09/10/2024
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status					

Stone Content	%	0.1	NONE	58.7	< 0.1	54.2	15.2	50.2
Moisture Content	%	0.01	NONE	8.8	17	10	13	11
Total mass of sample received	kg	0.1	NONE	0.9	0.8	0.9	0.8	0.8

Asbestos

Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Detected	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	MMI	MMI	MMI	MMI	MMI
Actinolite detected	Type	N/A	ISO 17025	-	-	-	Not-detected	-
Amosite detected	Type	N/A	ISO 17025	-	-	-	Not-detected	-
Anthophyllite detected	Type	N/A	ISO 17025	-	-	-	Not-detected	-
Chrysotile detected	Type	N/A	ISO 17025	-	-	-	Detected	-
Crocidolite detected	Type	N/A	ISO 17025	-	-	-	Not-detected	-
Tremolite detected	Type	N/A	ISO 17025	-	-	-	Not-detected	-

Asbestos Containing Material Types Detected (ACM)	Type	N/A	ISO 17025	-	-	-	Loose Fibres	-
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General Inorganics

pH (L099)	pH Units	N/A	MCERTS	8.1	8.1	7.3	9	7.8
Electrical Conductivity	µS/cm	10	MCERTS	180	470	270	230	1100
Total Cyanide	mg/kg	1	MCERTS	< 1.0	1.2	< 1.0	< 1.0	< 1.0
Free Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Thiocyanate as SCN	mg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Total Sulphate as SO ₄	mg/kg	50	MCERTS	590	1000	380	710	4500
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	170	540	240	270	3700
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.0851	0.271	0.12	0.137	1.86
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	85.1	271	120	137	1860
Total Potential Sulphate	mg/kg	30	NONE	-	3200	1300	1200	-
Sulphide	mg/kg	1	MCERTS	5.3	5	< 1.0	4.4	32
Total Sulphur	mg/kg	50	MCERTS	570	1100	430	400	2100
Organic Matter (automated)	%	0.1	MCERTS	6.2	2.7	0.7	1.6	2
Total Organic Carbon (TOC) - Automated	%	0.1	MCERTS	3.6	1.6	0.4	1	1.1
Redox Potential	mV	-800	NONE	181.9	172.4	169.7	175.3	175.5

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
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Analytical Report Number: 24-047471
Project / Site name: Church Lane, Moston

Lab Sample Number	347142	347143	347144	347145	347146
Sample Reference	CP1-ES1	CP1-ES2	CP1-ES3	CP3-ES1	CP3-ES2
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)	1.00	4.00	8.90	1.00	4.00
Date Sampled	10/10/2024	10/10/2024	10/10/2024	09/10/2024	09/10/2024
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	5.4	0.61	0.15	0.67	0.8
Acenaphthylene	mg/kg	0.05	MCERTS	0.74	0.11	< 0.05	0.1	0.06
Acenaphthene	mg/kg	0.05	MCERTS	30	1.2	0.06	1.1	1.5
Fluorene	mg/kg	0.05	MCERTS	20	1.2	< 0.05	0.95	1.2
Phenanthrene	mg/kg	0.05	MCERTS	190	8.6	0.33	6.8	9.1
Anthracene	mg/kg	0.05	MCERTS	48	2.3	0.08	1.5	2.5
Fluoranthene	mg/kg	0.05	MCERTS	240	11	0.32	8.3	12
Pyrene	mg/kg	0.05	MCERTS	210	9.7	0.3	8.2	11
Benzo(a)anthracene	mg/kg	0.05	MCERTS	95	4.3	0.13	3.5	5.2
Chrysene	mg/kg	0.05	MCERTS	98	4.5	0.16	3.7	5.5
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	94	4.8	0.16	4.1	6.4
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	34	1.9	0.06	1.4	2.6
Benzo(a)pyrene	mg/kg	0.05	MCERTS	92	4.4	0.09	3.5	5.9
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	36	1.7	0.37	1.7	2.4
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	9.4	0.42	< 0.05	0.4	0.52
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	41	1.8	0.46	1.9	2.5

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	1240	58.4	2.68	47.9	69.1
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	16	14	7.4	13	34
Barium (aqua regia extractable)	mg/kg	1	MCERTS	360	270	150	280	430
Boron (water soluble)	mg/kg	0.2	MCERTS	0.8	1.1	0.5	0.5	1.1
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	1.4	0.4	0.6	1.1	3.5
Chromium (hexavalent)	mg/kg	1.8	MCERTS	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	23	26	31	20	29
Copper (aqua regia extractable)	mg/kg	1	MCERTS	170	44	12	120	110
Lead (aqua regia extractable)	mg/kg	1	MCERTS	160	260	19	430	130
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	0.4	< 0.3	< 0.3	2.2	1
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	27	27	29	18	31
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	1.9	< 1.0	< 1.0
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	200	200	88	150	170

Petroleum Hydrocarbons

TPHCWG - Aliphatic >EC5 - EC6 _{HS_1D_AL}	mg/kg	0.01	MCERTS	-	< 0.010	-	< 0.010	< 0.010
TPHCWG - Aliphatic >EC6 - EC8 _{HS_1D_AL}	mg/kg	0.01	MCERTS	-	< 0.010	-	< 0.010	< 0.010
TPHCWG - Aliphatic >EC8 - EC10 _{HS_1D_AL}	mg/kg	0.01	MCERTS	-	< 0.010	-	< 0.010	< 0.010
TPHCWG - Aliphatic >EC10 - EC12 _{EH_CU_1D_AL}	mg/kg	1	MCERTS	-	< 1.0	-	< 1.0	2.4
TPHCWG - Aliphatic >EC12 - EC16 _{EH_CU_1D_AL}	mg/kg	2	MCERTS	-	2.7	-	< 2.0	5.1
TPHCWG - Aliphatic >EC16 - EC21 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	-	< 8.0	-	< 8.0	< 8.0
TPHCWG - Aliphatic >EC16 - EC35 _{EH_CU_1D_AL}	mg/kg	10	MCERTS	-	10	-	< 10	17
TPHCWG - Aliphatic >EC21 - EC35 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	-	10	-	9.5	17
TPHCWG - Aliphatic >EC35 - EC44 _{EH_CU_1D_AL}	mg/kg	8.4	NONE	-	< 8.4	-	< 8.4	< 8.4
TPHCWG - Aliphatic >EC5 - EC35 _{EH_CU+HS_1D_AL}	mg/kg	10	NONE	-	13	-	< 10	25
TPHCWG - Aliphatic >EC5 - EC44 _{EH_CU+HS_1D_AL}	mg/kg	10	NONE	-	13	-	< 10	25

Analytical Report Number: 24-047471
Project / Site name: Church Lane, Moston

Lab Sample Number				347142	347143	347144	347145	347146
Sample Reference				CP1-ES1	CP1-ES2	CP1-ES3	CP3-ES1	CP3-ES2
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				1.00	4.00	8.90	1.00	4.00
Date Sampled				10/10/2024	10/10/2024	10/10/2024	09/10/2024	09/10/2024
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status					
TPHCWG - Aromatic >EC5 - EC7 HS_1D_AR	mg/kg	0.01	MCERTS	-	< 0.010	-	< 0.010	< 0.010
TPHCWG - Aromatic >EC7 - EC8 HS_1D_AR	mg/kg	0.01	MCERTS	-	< 0.010	-	< 0.010	< 0.010
TPHCWG - Aromatic >EC8 - EC10 HS_1D_AR	mg/kg	0.02	MCERTS	-	< 0.020	-	< 0.020	< 0.020
TPHCWG - Aromatic >EC10 - EC12 EH_CU_1D_AR	mg/kg	1	MCERTS	-	< 1.0	-	< 1.0	1.6
TPHCWG - Aromatic >EC12 - EC16 EH_CU_1D_AR	mg/kg	2	MCERTS	-	6.2	-	4.6	7
TPHCWG - Aromatic >EC16 - EC21 EH_CU_1D_AR	mg/kg	10	MCERTS	-	25	-	22	30
TPHCWG - Aromatic >EC21 - EC35 EH_CU_1D_AR	mg/kg	10	MCERTS	-	27	-	37	51
TPHCWG - Aromatic >EC35 - EC44 EH_CU_1D_AR	mg/kg	8.4	NONE	-	< 8.4	-	11	< 8.4
TPHCWG - Aromatic >EC5 - EC35 EH_CU+HS_1D_AR	mg/kg	10	NONE	-	58	-	64	89
TPHCWG - Aromatic >EC5 - EC44 EH_CU+HS_1D_AR	mg/kg	10	NONE	-	58	-	75	89

VOCs

Chloromethane	µg/kg	5	MCERTS	-	-	-	< 5.0	-
Chloroethane	µg/kg	5	MCERTS	-	-	-	< 5.0	-
Bromomethane	µg/kg	5	MCERTS	-	-	-	< 5.0	-
Vinyl Chloride	µg/kg	5	NONE	-	-	-	< 5.0	-
Trichlorofluoromethane	µg/kg	5	MCERTS	-	-	-	< 5.0	-
1,1-Dichloroethene	µg/kg	5	MCERTS	-	-	-	< 5.0	-
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	5	MCERTS	-	-	-	< 5.0	-
Trans 1,2-dichloroethylene	µg/kg	5	MCERTS	-	-	-	< 5.0	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	MCERTS	-	< 5.0	-	< 5.0	< 5.0
1,1-Dichloroethane	µg/kg	5	MCERTS	-	-	-	< 5.0	-
2,2-Dichloropropane	µg/kg	5	NONE	-	-	-	< 5.0	-
Chloroform	µg/kg	5	MCERTS	-	-	-	< 5.0	-
1,1,1-Trichloroethane	µg/kg	5	MCERTS	-	-	-	< 5.0	-
1,2-Dichloroethane	µg/kg	7	MCERTS	-	-	-	< 7.0	-
1,1-Dichloropropene	µg/kg	5	MCERTS	-	-	-	< 5.0	-
Cis-1,2-dichloroethene	µg/kg	5	MCERTS	-	-	-	< 5.0	-
Benzene	µg/kg	5	MCERTS	-	< 5.0	-	< 5.0	< 5.0
Carbontetrachloride	µg/kg	5	MCERTS	-	-	-	< 5.0	-
1,2-Dichloropropane	µg/kg	6	MCERTS	-	-	-	< 6.0	-
Trichloroethene	µg/kg	10	MCERTS	-	-	-	< 10	-
Dibromomethane	µg/kg	5	MCERTS	-	-	-	< 5.0	-
Bromodichloromethane	µg/kg	5	MCERTS	-	-	-	< 5.0	-
Cis-1,3-dichloropropene	µg/kg	5	MCERTS	-	-	-	< 5.0	-
Trans-1,3-dichloropropene	µg/kg	10	MCERTS	-	-	-	< 10	-
Toluene	µg/kg	5	MCERTS	-	< 5.0	-	< 5.0	< 5.0
1,1,2-Trichloroethane	µg/kg	6	MCERTS	-	-	-	< 6.0	-
1,3-Dichloropropane	µg/kg	5	MCERTS	-	-	-	< 5.0	-
Dibromochloromethane	µg/kg	5	MCERTS	-	-	-	< 5.0	-
Tetrachloroethene	µg/kg	5	MCERTS	-	-	-	< 5.0	-
1,2-Dibromoethane	µg/kg	5	MCERTS	-	-	-	< 5.0	-
Chlorobenzene	µg/kg	5	MCERTS	-	-	-	< 5.0	-
1,1,1,2-Tetrachloroethane	µg/kg	5	MCERTS	-	-	-	< 5.0	-
Ethylbenzene	µg/kg	5	MCERTS	-	< 5.0	-	< 5.0	< 5.0
p & m-Xylene	µg/kg	8	MCERTS	-	< 8.0	-	< 8.0	< 8.0
Styrene	µg/kg	5	MCERTS	-	-	-	< 5.0	-
Bromoform	µg/kg	5	MCERTS	-	-	-	< 5.0	-
o-Xylene	µg/kg	5	MCERTS	-	< 5.0	-	< 5.0	< 5.0
Isopropylbenzene	µg/kg	5	MCERTS	-	-	-	< 5.0	-
1,1,2,2-Tetrachloroethane	µg/kg	5	NONE	-	-	-	< 5.0	-
Bromobenzene	µg/kg	5	MCERTS	-	-	-	< 5.0	-
n-Propylbenzene	µg/kg	5	MCERTS	-	-	-	< 5.0	-

Analytical Report Number: 24-047471
Project / Site name: Church Lane, Moston

Lab Sample Number				347142	347143	347144	347145	347146
Sample Reference				CP1-ES1	CP1-ES2	CP1-ES3	CP3-ES1	CP3-ES2
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				1.00	4.00	8.90	1.00	4.00
Date Sampled				10/10/2024	10/10/2024	10/10/2024	09/10/2024	09/10/2024
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status					
2-Chlorotoluene	µg/kg	5	MCERTS	-	-	-	< 5.0	-
4-Chlorotoluene	µg/kg	5	MCERTS	-	-	-	< 5.0	-
1,3,5-Trimethylbenzene	µg/kg	5	MCERTS	-	-	-	< 5.0	-
tert-Butylbenzene	µg/kg	5	MCERTS	-	-	-	< 5.0	-
1,2,4-Trimethylbenzene	µg/kg	5	MCERTS	-	-	-	< 5.0	-
sec-Butylbenzene	µg/kg	5	MCERTS	-	-	-	< 5.0	-
1,3-Dichlorobenzene	µg/kg	5	MCERTS	-	-	-	< 5.0	-
p-Isopropyltoluene	µg/kg	5	MCERTS	-	-	-	< 5.0	-
1,4-Dichlorobenzene	µg/kg	5	MCERTS	-	-	-	< 5.0	-
1,2-Dichlorobenzene	µg/kg	5	MCERTS	-	-	-	< 5.0	-
Butylbenzene	µg/kg	5	MCERTS	-	-	-	< 5.0	-
1,2-Dibromo-3-chloropropane	µg/kg	8	MCERTS	-	-	-	< 8.0	-
1,2,4-Trichlorobenzene	µg/kg	5	MCERTS	-	-	-	< 5.0	-
Hexachlorobutadiene	µg/kg	5	MCERTS	-	-	-	< 5.0	-
1,2,3-Trichlorobenzene	µg/kg	5	MCERTS	-	-	-	< 5.0	-

SVOCs

Aniline	mg/kg	0.1	NONE	-	-	-	< 0.1	-
Phenol	mg/kg	0.2	ISO 17025	-	-	-	< 0.2	-
2-Chlorophenol	mg/kg	0.1	MCERTS	-	-	-	< 0.1	-
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	-	-	-	< 0.2	-
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	-	-	-	< 0.2	-
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	-	-	-	< 0.1	-
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	-	-	-	< 0.2	-
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	-	-	-	< 0.1	-
2-Methylphenol	mg/kg	0.3	MCERTS	-	-	-	< 0.3	-
Hexachloroethane	mg/kg	0.05	ISO 17025	-	-	-	< 0.05	-
Nitrobenzene	mg/kg	0.3	MCERTS	-	-	-	< 0.3	-
4-Methylphenol	mg/kg	0.2	NONE	-	-	-	< 0.2	-
Isophorone	mg/kg	0.2	MCERTS	-	-	-	< 0.2	-
2-Nitrophenol	mg/kg	0.3	NONE	-	-	-	< 0.3	-
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	-	-	-	< 0.3	-
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	-	-	-	< 0.3	-
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	-	-	-	< 0.3	-
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	-	-	-	< 0.3	-
4-Chloroaniline	mg/kg	0.1	NONE	-	-	-	< 0.1	-
Hexachlorobutadiene	mg/kg	0.1	MCERTS	-	-	-	< 0.1	-
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	-	-	-	< 0.1	-
2,4,6-Trichlorophenol	mg/kg	0.1	NONE	-	-	-	< 0.1	-
2,4,5-Trichlorophenol	mg/kg	0.2	NONE	-	-	-	< 0.2	-
2-Methylnaphthalene	mg/kg	0.1	NONE	-	-	-	0.4	-
2-Chloronaphthalene	mg/kg	0.1	MCERTS	-	-	-	< 0.1	-
Dimethylphthalate	mg/kg	0.1	MCERTS	-	-	-	< 0.1	-
2,6-Dinitrotoluene	mg/kg	0.1	NONE	-	-	-	< 0.1	-
2,4-Dinitrotoluene	mg/kg	0.2	NONE	-	-	-	< 0.2	-
Dibenzofuran	mg/kg	0.2	MCERTS	-	-	-	0.6	-
4-Chlorophenyl phenyl ether	mg/kg	0.3	MCERTS	-	-	-	< 0.3	-
Diethyl phthalate	mg/kg	0.2	MCERTS	-	-	-	< 0.2	-
4-Nitroaniline	mg/kg	0.2	NONE	-	-	-	< 0.2	-
Azobenzene	mg/kg	0.3	NONE	-	-	-	< 0.3	-
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	-	-	-	< 0.2	-
Hexachlorobenzene	mg/kg	0.3	MCERTS	-	-	-	< 0.30	-
Carbazole	mg/kg	0.3	MCERTS	-	-	-	0.4	-



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Project / Site name: Church Lane, Moston

Lab Sample Number				347142	347143	347144	347145	347146
Sample Reference				CP1-ES1	CP1-ES2	CP1-ES3	CP3-ES1	CP3-ES2
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				1.00	4.00	8.90	1.00	4.00
Date Sampled				10/10/2024	10/10/2024	10/10/2024	09/10/2024	09/10/2024
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)				Units	Test Limit of detection	Test Accreditation Status		
Dibutyl phthalate				mg/kg	0.2	NONE	-	-
Anthraquinone				mg/kg	0.3	NONE	-	-
Butyl benzyl phthalate				mg/kg	0.3	NONE	-	-

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 24-047471
Project / Site name: Church Lane, Moston

Lab Sample Number				347147	347148	347149	347150	347151
Sample Reference				CP3-ES3	CP5-ES1	CP5-ES3	CP5-ES4	CP6-ES1
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				10.00	0.50	6.00	9.30	1.00
Date Sampled				09/10/2024	07/10/2024	07/10/2024	07/10/2024	08/10/2024
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)				Units	Test Limit of detection	Test Accreditation Status		

Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	14	13	9.3	10	16
Total mass of sample received	kg	0.1	NONE	0.9	0.9	0.9	0.9	0.8

Asbestos

Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	MMI	MMI	MMI	MMI	MMI
Actinolite detected	Type	N/A	ISO 17025	-	-	-	-	-
Amosite detected	Type	N/A	ISO 17025	-	-	-	-	-
Anthophyllite detected	Type	N/A	ISO 17025	-	-	-	-	-
Chrysotile detected	Type	N/A	ISO 17025	-	-	-	-	-
Crocidolite detected	Type	N/A	ISO 17025	-	-	-	-	-
Tremolite detected	Type	N/A	ISO 17025	-	-	-	-	-

Asbestos Containing Material Types Detected (ACM)	Type	N/A	ISO 17025	-	-	-	-	-
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General Inorganics

pH (L099)	pH Units	N/A	MCERTS	8	8.5	9.3	8.2	8.4
Electrical Conductivity	µS/cm	10	MCERTS	290	280	230	220	390
Total Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Free Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Thiocyanate as SCN	mg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Total Sulphate as SO ₄	mg/kg	50	MCERTS	330	560	520	270	810
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	220	280	250	100	350
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.108	0.14	0.124	0.05	0.173
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	108	140	124	50	173
Total Potential Sulphate	mg/kg	30	NONE	570	-	-	-	1600
Sulphide	mg/kg	1	MCERTS	< 1.0	3.6	< 1.0	< 1.0	4.9
Total Sulphur	mg/kg	50	MCERTS	190	440	260	280	550
Organic Matter (automated)	%	0.1	MCERTS	1.3	2.9	0.2	1.3	1.3
Total Organic Carbon (TOC) - Automated	%	0.1	MCERTS	0.7	1.7	0.1	0.8	0.7
Redox Potential	mV	-800	NONE	173.3	172.4	171.3	171.1	162.6

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
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Analytical Report Number: 24-047471
Project / Site name: Church Lane, Moston

Lab Sample Number	347147	347148	347149	347150	347151
Sample Reference	CP3-ES3	CP5-ES1	CP5-ES3	CP5-ES4	CP6-ES1
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)	10.00	0.50	6.00	9.30	1.00
Date Sampled	09/10/2024	07/10/2024	07/10/2024	07/10/2024	08/10/2024
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	0.16	0.48	< 0.05	0.17	0.23
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	0.2	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	1.7	< 0.05	< 0.05	0.35
Fluorene	mg/kg	0.05	MCERTS	< 0.05	1.4	< 0.05	< 0.05	0.34
Phenanthrene	mg/kg	0.05	MCERTS	0.27	13	0.3	0.17	3.6
Anthracene	mg/kg	0.05	MCERTS	0.06	3.6	< 0.05	< 0.05	0.98
Fluoranthene	mg/kg	0.05	MCERTS	0.37	20	0.41	0.12	6
Pyrene	mg/kg	0.05	MCERTS	0.33	17	0.38	0.1	5.4
Benzo(a)anthracene	mg/kg	0.05	MCERTS	0.15	8.2	0.18	< 0.05	2.3
Chrysene	mg/kg	0.05	MCERTS	0.19	8.2	0.21	0.08	2.4
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	0.19	9.7	0.23	< 0.05	2.8
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	0.09	4.7	0.11	< 0.05	0.88
Benzo(a)pyrene	mg/kg	0.05	MCERTS	0.15	9.4	0.2	< 0.05	2.3
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	0.09	3.8	0.13	< 0.05	1.1
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	0.79	< 0.05	< 0.05	0.21
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	0.09	3.8	0.15	< 0.05	1.4

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	2.12	106	2.3	< 0.80	30.2
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	8.3	11	12	6.4	16
Barium (aqua regia extractable)	mg/kg	1	MCERTS	160	140	170	190	170
Boron (water soluble)	mg/kg	0.2	MCERTS	0.6	0.9	0.6	0.6	0.9
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	0.3	0.5	< 0.2	0.2	0.4
Chromium (hexavalent)	mg/kg	1.8	MCERTS	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	26	20	20	21	30
Copper (aqua regia extractable)	mg/kg	1	MCERTS	25	48	6.7	21	34
Lead (aqua regia extractable)	mg/kg	1	MCERTS	14	79	18	14	74
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	0.6	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	30	16	18	26	27
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	58	100	39	55	99

Petroleum Hydrocarbons

TPHCWG - Aliphatic >EC5 - EC6 _{HS_1D_AL}	mg/kg	0.01	MCERTS	-	-	< 0.010	-	< 0.010
TPHCWG - Aliphatic >EC6 - EC8 _{HS_1D_AL}	mg/kg	0.01	MCERTS	-	-	< 0.010	-	< 0.010
TPHCWG - Aliphatic >EC8 - EC10 _{HS_1D_AL}	mg/kg	0.01	MCERTS	-	-	< 0.010	-	< 0.010
TPHCWG - Aliphatic >EC10 - EC12 _{EH_CU_1D_AL}	mg/kg	1	MCERTS	-	-	< 1.0	-	1.1
TPHCWG - Aliphatic >EC12 - EC16 _{EH_CU_1D_AL}	mg/kg	2	MCERTS	-	-	< 2.0	-	3.7
TPHCWG - Aliphatic >EC16 - EC21 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	-	-	< 8.0	-	< 8.0
TPHCWG - Aliphatic >EC16 - EC35 _{EH_CU_1D_AL}	mg/kg	10	MCERTS	-	-	< 10	-	12
TPHCWG - Aliphatic >EC21 - EC35 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	-	-	< 8.0	-	12
TPHCWG - Aliphatic >EC35 - EC44 _{EH_CU_1D_AL}	mg/kg	8.4	NONE	-	-	< 8.4	-	< 8.4
TPHCWG - Aliphatic >EC5 - EC35 _{EH_CU+HS_1D_AL}	mg/kg	10	NONE	-	-	< 10	-	17
TPHCWG - Aliphatic >EC5 - EC44 _{EH_CU+HS_1D_AL}	mg/kg	10	NONE	-	-	< 10	-	17

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Lab Sample Number				347147	347148	347149	347150	347151
Sample Reference				CP3-ES3	CP5-ES1	CP5-ES3	CP5-ES4	CP6-ES1
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				10.00	0.50	6.00	9.30	1.00
Date Sampled				09/10/2024	07/10/2024	07/10/2024	07/10/2024	08/10/2024
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status					
TPHCWG - Aromatic >EC5 - EC7 HS_1D_AR	mg/kg	0.01	MCERTS	-	-	< 0.010	-	< 0.010
TPHCWG - Aromatic >EC7 - EC8 HS_1D_AR	mg/kg	0.01	MCERTS	-	-	< 0.010	-	< 0.010
TPHCWG - Aromatic >EC8 - EC10 HS_1D_AR	mg/kg	0.02	MCERTS	-	-	< 0.020	-	< 0.020
TPHCWG - Aromatic >EC10 - EC12 EH_CU_1D_AR	mg/kg	1	MCERTS	-	-	< 1.0	-	< 1.0
TPHCWG - Aromatic >EC12 - EC16 EH_CU_1D_AR	mg/kg	2	MCERTS	-	-	< 2.0	-	4.1
TPHCWG - Aromatic >EC16 - EC21 EH_CU_1D_AR	mg/kg	10	MCERTS	-	-	< 10	-	12
TPHCWG - Aromatic >EC21 - EC35 EH_CU_1D_AR	mg/kg	10	MCERTS	-	-	< 10	-	21
TPHCWG - Aromatic >EC35 - EC44 EH_CU_1D_AR	mg/kg	8.4	NONE	-	-	< 8.4	-	< 8.4
TPHCWG - Aromatic >EC5 - EC35 EH_CU+HS_1D_AR	mg/kg	10	NONE	-	-	< 10	-	38
TPHCWG - Aromatic >EC5 - EC44 EH_CU+HS_1D_AR	mg/kg	10	NONE	-	-	< 10	-	38

VOCs

Chloromethane	µg/kg	5	MCERTS	-	-	-	-	< 5.0
Chloroethane	µg/kg	5	MCERTS	-	-	-	-	< 5.0
Bromomethane	µg/kg	5	MCERTS	-	-	-	-	< 5.0
Vinyl Chloride	µg/kg	5	NONE	-	-	-	-	< 5.0
Trichlorofluoromethane	µg/kg	5	MCERTS	-	-	-	-	< 5.0
1,1-Dichloroethene	µg/kg	5	MCERTS	-	-	-	-	< 5.0
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	5	MCERTS	-	-	-	-	< 5.0
Trans 1,2-dichloroethylene	µg/kg	5	MCERTS	-	-	-	-	< 5.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	MCERTS	-	-	< 5.0	-	< 5.0
1,1-Dichloroethane	µg/kg	5	MCERTS	-	-	-	-	< 5.0
2,2-Dichloropropane	µg/kg	5	NONE	-	-	-	-	< 5.0
Chloroform	µg/kg	5	MCERTS	-	-	-	-	< 5.0
1,1,1-Trichloroethane	µg/kg	5	MCERTS	-	-	-	-	< 5.0
1,2-Dichloroethane	µg/kg	7	MCERTS	-	-	-	-	< 7.0
1,1-Dichloropropene	µg/kg	5	MCERTS	-	-	-	-	< 5.0
Cis-1,2-dichloroethene	µg/kg	5	MCERTS	-	-	-	-	< 5.0
Benzene	µg/kg	5	MCERTS	-	-	< 5.0	-	< 5.0
Carbontetrachloride	µg/kg	5	MCERTS	-	-	-	-	< 5.0
1,2-Dichloropropane	µg/kg	6	MCERTS	-	-	-	-	< 6.0
Trichloroethene	µg/kg	10	MCERTS	-	-	-	-	< 10
Dibromomethane	µg/kg	5	MCERTS	-	-	-	-	< 5.0
Bromodichloromethane	µg/kg	5	MCERTS	-	-	-	-	< 5.0
Cis-1,3-dichloropropene	µg/kg	5	MCERTS	-	-	-	-	< 5.0
Trans-1,3-dichloropropene	µg/kg	10	MCERTS	-	-	-	-	< 10
Toluene	µg/kg	5	MCERTS	-	-	< 5.0	-	< 5.0
1,1,2-Trichloroethane	µg/kg	6	MCERTS	-	-	-	-	< 6.0
1,3-Dichloropropane	µg/kg	5	MCERTS	-	-	-	-	< 5.0
Dibromochloromethane	µg/kg	5	MCERTS	-	-	-	-	< 5.0
Tetrachloroethene	µg/kg	5	MCERTS	-	-	-	-	< 5.0
1,2-Dibromoethane	µg/kg	5	MCERTS	-	-	-	-	< 5.0
Chlorobenzene	µg/kg	5	MCERTS	-	-	-	-	< 5.0
1,1,1,2-Tetrachloroethane	µg/kg	5	MCERTS	-	-	-	-	< 5.0
Ethylbenzene	µg/kg	5	MCERTS	-	-	< 5.0	-	< 5.0
p & m-Xylene	µg/kg	8	MCERTS	-	-	< 8.0	-	< 8.0
Styrene	µg/kg	5	MCERTS	-	-	-	-	< 5.0
Bromoform	µg/kg	5	MCERTS	-	-	-	-	< 5.0
o-Xylene	µg/kg	5	MCERTS	-	-	< 5.0	-	< 5.0
Isopropylbenzene	µg/kg	5	MCERTS	-	-	-	-	< 5.0
1,1,2,2-Tetrachloroethane	µg/kg	5	NONE	-	-	-	-	< 5.0
Bromobenzene	µg/kg	5	MCERTS	-	-	-	-	< 5.0
n-Propylbenzene	µg/kg	5	MCERTS	-	-	-	-	< 5.0

Analytical Report Number: 24-047471
Project / Site name: Church Lane, Moston

Lab Sample Number				347147	347148	347149	347150	347151
Sample Reference				CP3-ES3	CP5-ES1	CP5-ES3	CP5-ES4	CP6-ES1
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				10.00	0.50	6.00	9.30	1.00
Date Sampled				09/10/2024	07/10/2024	07/10/2024	07/10/2024	08/10/2024
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status					
2-Chlorotoluene	µg/kg	5	MCERTS	-	-	-	-	< 5.0
4-Chlorotoluene	µg/kg	5	MCERTS	-	-	-	-	< 5.0
1,3,5-Trimethylbenzene	µg/kg	5	MCERTS	-	-	-	-	< 5.0
tert-Butylbenzene	µg/kg	5	MCERTS	-	-	-	-	< 5.0
1,2,4-Trimethylbenzene	µg/kg	5	MCERTS	-	-	-	-	< 5.0
sec-Butylbenzene	µg/kg	5	MCERTS	-	-	-	-	< 5.0
1,3-Dichlorobenzene	µg/kg	5	MCERTS	-	-	-	-	< 5.0
p-Isopropyltoluene	µg/kg	5	MCERTS	-	-	-	-	< 5.0
1,4-Dichlorobenzene	µg/kg	5	MCERTS	-	-	-	-	< 5.0
1,2-Dichlorobenzene	µg/kg	5	MCERTS	-	-	-	-	< 5.0
Butylbenzene	µg/kg	5	MCERTS	-	-	-	-	< 5.0
1,2-Dibromo-3-chloropropane	µg/kg	8	MCERTS	-	-	-	-	< 8.0
1,2,4-Trichlorobenzene	µg/kg	5	MCERTS	-	-	-	-	< 5.0
Hexachlorobutadiene	µg/kg	5	MCERTS	-	-	-	-	< 5.0
1,2,3-Trichlorobenzene	µg/kg	5	MCERTS	-	-	-	-	< 5.0

SVOCs

Aniline	mg/kg	0.1	NONE	-	-	-	-	< 0.1
Phenol	mg/kg	0.2	ISO 17025	-	-	-	-	< 0.2
2-Chlorophenol	mg/kg	0.1	MCERTS	-	-	-	-	< 0.1
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	-	-	-	-	< 0.2
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	-	-	-	-	< 0.2
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	-	-	-	-	< 0.1
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	-	-	-	-	< 0.2
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	-	-	-	-	< 0.1
2-Methylphenol	mg/kg	0.3	MCERTS	-	-	-	-	< 0.3
Hexachloroethane	mg/kg	0.05	ISO 17025	-	-	-	-	< 0.05
Nitrobenzene	mg/kg	0.3	MCERTS	-	-	-	-	< 0.3
4-Methylphenol	mg/kg	0.2	NONE	-	-	-	-	< 0.2
Isophorone	mg/kg	0.2	MCERTS	-	-	-	-	< 0.2
2-Nitrophenol	mg/kg	0.3	NONE	-	-	-	-	< 0.3
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	-	-	-	-	< 0.3
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	-	-	-	-	< 0.3
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	-	-	-	-	< 0.3
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	-	-	-	-	< 0.3
4-Chloroaniline	mg/kg	0.1	NONE	-	-	-	-	< 0.1
Hexachlorobutadiene	mg/kg	0.1	MCERTS	-	-	-	-	< 0.1
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	-	-	-	-	< 0.1
2,4,6-Trichlorophenol	mg/kg	0.1	NONE	-	-	-	-	< 0.1
2,4,5-Trichlorophenol	mg/kg	0.2	NONE	-	-	-	-	< 0.2
2-Methylnaphthalene	mg/kg	0.1	NONE	-	-	-	-	0.1
2-Chloronaphthalene	mg/kg	0.1	MCERTS	-	-	-	-	< 0.1
Dimethylphthalate	mg/kg	0.1	MCERTS	-	-	-	-	< 0.1
2,6-Dinitrotoluene	mg/kg	0.1	NONE	-	-	-	-	< 0.1
2,4-Dinitrotoluene	mg/kg	0.2	NONE	-	-	-	-	< 0.2
Dibenzofuran	mg/kg	0.2	MCERTS	-	-	-	-	0.2
4-Chlorophenyl phenyl ether	mg/kg	0.3	MCERTS	-	-	-	-	< 0.3
Diethyl phthalate	mg/kg	0.2	MCERTS	-	-	-	-	< 0.2
4-Nitroaniline	mg/kg	0.2	NONE	-	-	-	-	< 0.2
Azobenzene	mg/kg	0.3	NONE	-	-	-	-	< 0.3
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	-	-	-	-	< 0.2
Hexachlorobenzene	mg/kg	0.3	MCERTS	-	-	-	-	< 0.30
Carbazole	mg/kg	0.3	MCERTS	-	-	-	-	< 0.3



Analytical Report Number: 24-047471
Project / Site name: Church Lane, Moston

Lab Sample Number				347147	347148	347149	347150	347151
Sample Reference				CP3-ES3	CP5-ES1	CP5-ES3	CP5-ES4	CP6-ES1
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				10.00	0.50	6.00	9.30	1.00
Date Sampled				09/10/2024	07/10/2024	07/10/2024	07/10/2024	08/10/2024
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status					
Dibutyl phthalate	mg/kg	0.2	NONE	-	-	-	-	< 0.2
Anthraquinone	mg/kg	0.3	NONE	-	-	-	-	0.3
Butyl benzyl phthalate	mg/kg	0.3	NONE	-	-	-	-	< 0.3

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 24-047471
 Project / Site name: Church Lane, Moston

Lab Sample Number				347152	347153
Sample Reference				CP6-ES3	CP6-ES4
Sample Number				None Supplied	None Supplied
Depth (m)				5.00	10.50
Date Sampled				08/10/2024	08/10/2024
Time Taken				None Supplied	None Supplied
Analytical Parameter (Soil Analysis)				Units	Test Limit of detection
				Test Accreditation Status	

Stone Content	%	0.1	NONE	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	19	17
Total mass of sample received	kg	0.1	NONE	0.8	0.8

Asbestos

Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	Not-detected	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	DSO	DSO
Actinolite detected	Type	N/A	ISO 17025	-	-
Amosite detected	Type	N/A	ISO 17025	-	-
Anthophyllite detected	Type	N/A	ISO 17025	-	-
Chrysotile detected	Type	N/A	ISO 17025	-	-
Crocidolite detected	Type	N/A	ISO 17025	-	-
Tremolite detected	Type	N/A	ISO 17025	-	-

Asbestos Containing Material Types Detected (ACM)	Type	N/A	ISO 17025	-	-
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General Inorganics

pH (L099)	pH Units	N/A	MCERTS	7.9	7.3
Electrical Conductivity	µS/cm	10	MCERTS	620	240
Total Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0
Free Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0
Thiocyanate as SCN	mg/kg	5	NONE	< 5.0	< 5.0
Total Sulphate as SO ₄	mg/kg	50	MCERTS	1100	270
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	180	210
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.0918	0.107
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	91.8	107
Total Potential Sulphate	mg/kg	30	NONE	-	790
Sulphide	mg/kg	1	MCERTS	20	7.2
Total Sulphur	mg/kg	50	MCERTS	790	260
Organic Matter (automated)	%	0.1	MCERTS	2.4	1.7
Total Organic Carbon (TOC) - Automated	%	0.1	MCERTS	1.4	1
Redox Potential	mV	-800	NONE	179.6	170.4

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0
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Analytical Report Number: 24-047471
Project / Site name: Church Lane, Moston

Lab Sample Number				347152	347153
Sample Reference				CP6-ES3	CP6-ES4
Sample Number				None Supplied	None Supplied
Depth (m)				5.00	10.50
Date Sampled				08/10/2024	08/10/2024
Time Taken				None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	0.3	0.09
Acenaphthylene	mg/kg	0.05	MCERTS	0.08	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	0.68	0.08
Fluorene	mg/kg	0.05	MCERTS	0.46	0.06
Phenanthrene	mg/kg	0.05	MCERTS	3.6	0.39
Anthracene	mg/kg	0.05	MCERTS	0.99	0.08
Fluoranthene	mg/kg	0.05	MCERTS	6.7	0.53
Pyrene	mg/kg	0.05	MCERTS	6.1	0.48
Benzo(a)anthracene	mg/kg	0.05	MCERTS	2.9	0.23
Chrysene	mg/kg	0.05	MCERTS	3.2	0.27
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	3.7	0.31
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	1.7	0.14
Benzo(a)pyrene	mg/kg	0.05	MCERTS	3.5	0.28
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	1.5	0.11
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	0.33	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	1.6	0.12

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	37.3	3.16
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	15	6.9
Barium (aqua regia extractable)	mg/kg	1	MCERTS	220	69
Boron (water soluble)	mg/kg	0.2	MCERTS	1.9	1.6
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	0.4	0.3
Chromium (hexavalent)	mg/kg	1.8	MCERTS	< 1.8	< 1.8
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	24	17
Copper (aqua regia extractable)	mg/kg	1	MCERTS	46	12
Lead (aqua regia extractable)	mg/kg	1	MCERTS	210	23
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	0.5	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	25	16
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	1.2	< 1.0
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	120	48

Petroleum Hydrocarbons

TPHCWG - Aliphatic >EC5 - EC6 _{HS_1D_AL}	mg/kg	0.01	MCERTS	-	-
TPHCWG - Aliphatic >EC6 - EC8 _{HS_1D_AL}	mg/kg	0.01	MCERTS	-	-
TPHCWG - Aliphatic >EC8 - EC10 _{HS_1D_AL}	mg/kg	0.01	MCERTS	-	-
TPHCWG - Aliphatic >EC10 - EC12 _{EH_CU_1D_AL}	mg/kg	1	MCERTS	-	-
TPHCWG - Aliphatic >EC12 - EC16 _{EH_CU_1D_AL}	mg/kg	2	MCERTS	-	-
TPHCWG - Aliphatic >EC16 - EC21 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	-	-
TPHCWG - Aliphatic >EC16 - EC35 _{EH_CU_1D_AL}	mg/kg	10	MCERTS	-	-
TPHCWG - Aliphatic >EC21 - EC35 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	-	-
TPHCWG - Aliphatic >EC35 - EC44 _{EH_CU_1D_AL}	mg/kg	8.4	NONE	-	-
TPHCWG - Aliphatic >EC5 - EC35 _{EH_CU+HS_1D_AL}	mg/kg	10	NONE	-	-
TPHCWG - Aliphatic >EC5 - EC44 _{EH_CU+HS_1D_AL}	mg/kg	10	NONE	-	-



Analytical Report Number: 24-047471
Project / Site name: Church Lane, Moston

Lab Sample Number				347152	347153
Sample Reference				CP6-ES3	CP6-ES4
Sample Number				None Supplied	None Supplied
Depth (m)				5.00	10.50
Date Sampled				08/10/2024	08/10/2024
Time Taken				None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		
TPHCWG - Aromatic >EC5 - EC7 HS_1D_AR	mg/kg	0.01	MCERTS	-	-
TPHCWG - Aromatic >EC7 - EC8 HS_1D_AR	mg/kg	0.01	MCERTS	-	-
TPHCWG - Aromatic >EC8 - EC10 HS_1D_AR	mg/kg	0.02	MCERTS	-	-
TPHCWG - Aromatic >EC10 - EC12 EH_CU_1D_AR	mg/kg	1	MCERTS	-	-
TPHCWG - Aromatic >EC12 - EC16 EH_CU_1D_AR	mg/kg	2	MCERTS	-	-
TPHCWG - Aromatic >EC16 - EC21 EH_CU_1D_AR	mg/kg	10	MCERTS	-	-
TPHCWG - Aromatic >EC21 - EC35 EH_CU_1D_AR	mg/kg	10	MCERTS	-	-
TPHCWG - Aromatic >EC35 - EC44 EH_CU_1D_AR	mg/kg	8.4	NONE	-	-
TPHCWG - Aromatic >EC5 - EC35 EH_CU+HS_1D_AR	mg/kg	10	NONE	-	-
TPHCWG - Aromatic >EC5 - EC44 EH_CU+HS_1D_AR	mg/kg	10	NONE	-	-

VOCs

Chloromethane	µg/kg	5	MCERTS	-	-
Chloroethane	µg/kg	5	MCERTS	-	-
Bromomethane	µg/kg	5	MCERTS	-	-
Vinyl Chloride	µg/kg	5	NONE	-	-
Trichlorofluoromethane	µg/kg	5	MCERTS	-	-
1,1-Dichloroethene	µg/kg	5	MCERTS	-	-
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	5	MCERTS	-	-
Trans 1,2-dichloroethylene	µg/kg	5	MCERTS	-	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	MCERTS	-	-
1,1-Dichloroethane	µg/kg	5	MCERTS	-	-
2,2-Dichloropropane	µg/kg	5	NONE	-	-
Chloroform	µg/kg	5	MCERTS	-	-
1,1,1-Trichloroethane	µg/kg	5	MCERTS	-	-
1,2-Dichloroethane	µg/kg	7	MCERTS	-	-
1,1-Dichloropropene	µg/kg	5	MCERTS	-	-
Cis-1,2-dichloroethene	µg/kg	5	MCERTS	-	-
Benzene	µg/kg	5	MCERTS	-	-
Carbontetrachloride	µg/kg	5	MCERTS	-	-
1,2-Dichloropropane	µg/kg	6	MCERTS	-	-
Trichloroethene	µg/kg	10	MCERTS	-	-
Dibromomethane	µg/kg	5	MCERTS	-	-
Bromodichloromethane	µg/kg	5	MCERTS	-	-
Cis-1,3-dichloropropene	µg/kg	5	MCERTS	-	-
Trans-1,3-dichloropropene	µg/kg	10	MCERTS	-	-
Toluene	µg/kg	5	MCERTS	-	-
1,1,2-Trichloroethane	µg/kg	6	MCERTS	-	-
1,3-Dichloropropane	µg/kg	5	MCERTS	-	-
Dibromochloromethane	µg/kg	5	MCERTS	-	-
Tetrachloroethene	µg/kg	5	MCERTS	-	-
1,2-Dibromoethane	µg/kg	5	MCERTS	-	-
Chlorobenzene	µg/kg	5	MCERTS	-	-
1,1,1,2-Tetrachloroethane	µg/kg	5	MCERTS	-	-
Ethylbenzene	µg/kg	5	MCERTS	-	-
p & m-Xylene	µg/kg	8	MCERTS	-	-
Styrene	µg/kg	5	MCERTS	-	-
Bromoform	µg/kg	5	MCERTS	-	-
o-Xylene	µg/kg	5	MCERTS	-	-
Isopropylbenzene	µg/kg	5	MCERTS	-	-
1,1,2,2-Tetrachloroethane	µg/kg	5	NONE	-	-
Bromobenzene	µg/kg	5	MCERTS	-	-
n-Propylbenzene	µg/kg	5	MCERTS	-	-



Analytical Report Number: 24-047471
Project / Site name: Church Lane, Moston

Lab Sample Number				347152	347153
Sample Reference				CP6-ES3	CP6-ES4
Sample Number				None Supplied	None Supplied
Depth (m)				5.00	10.50
Date Sampled				08/10/2024	08/10/2024
Time Taken				None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		
2-Chlorotoluene	µg/kg	5	MCERTS	-	-
4-Chlorotoluene	µg/kg	5	MCERTS	-	-
1,3,5-Trimethylbenzene	µg/kg	5	MCERTS	-	-
tert-Butylbenzene	µg/kg	5	MCERTS	-	-
1,2,4-Trimethylbenzene	µg/kg	5	MCERTS	-	-
sec-Butylbenzene	µg/kg	5	MCERTS	-	-
1,3-Dichlorobenzene	µg/kg	5	MCERTS	-	-
p-Isopropyltoluene	µg/kg	5	MCERTS	-	-
1,4-Dichlorobenzene	µg/kg	5	MCERTS	-	-
1,2-Dichlorobenzene	µg/kg	5	MCERTS	-	-
Butylbenzene	µg/kg	5	MCERTS	-	-
1,2-Dibromo-3-chloropropane	µg/kg	8	MCERTS	-	-
1,2,4-Trichlorobenzene	µg/kg	5	MCERTS	-	-
Hexachlorobutadiene	µg/kg	5	MCERTS	-	-
1,2,3-Trichlorobenzene	µg/kg	5	MCERTS	-	-

SVOCs

Aniline	mg/kg	0.1	NONE	-	-
Phenol	mg/kg	0.2	ISO 17025	-	-
2-Chlorophenol	mg/kg	0.1	MCERTS	-	-
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	-	-
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	-	-
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	-	-
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	-	-
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	-	-
2-Methylphenol	mg/kg	0.3	MCERTS	-	-
Hexachloroethane	mg/kg	0.05	ISO 17025	-	-
Nitrobenzene	mg/kg	0.3	MCERTS	-	-
4-Methylphenol	mg/kg	0.2	NONE	-	-
Isophorone	mg/kg	0.2	MCERTS	-	-
2-Nitrophenol	mg/kg	0.3	NONE	-	-
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	-	-
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	-	-
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	-	-
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	-	-
4-Chloroaniline	mg/kg	0.1	NONE	-	-
Hexachlorobutadiene	mg/kg	0.1	MCERTS	-	-
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	-	-
2,4,6-Trichlorophenol	mg/kg	0.1	NONE	-	-
2,4,5-Trichlorophenol	mg/kg	0.2	NONE	-	-
2-Methylnaphthalene	mg/kg	0.1	NONE	-	-
2-Chloronaphthalene	mg/kg	0.1	MCERTS	-	-
Dimethylphthalate	mg/kg	0.1	MCERTS	-	-
2,6-Dinitrotoluene	mg/kg	0.1	NONE	-	-
2,4-Dinitrotoluene	mg/kg	0.2	NONE	-	-
Dibenzofuran	mg/kg	0.2	MCERTS	-	-
4-Chlorophenyl phenyl ether	mg/kg	0.3	MCERTS	-	-
Diethyl phthalate	mg/kg	0.2	MCERTS	-	-
4-Nitroaniline	mg/kg	0.2	NONE	-	-
Azobenzene	mg/kg	0.3	NONE	-	-
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	-	-
Hexachlorobenzene	mg/kg	0.3	MCERTS	-	-
Carbazole	mg/kg	0.3	MCERTS	-	-



Analytical Report Number: 24-047471
Project / Site name: Church Lane, Moston

Lab Sample Number				347152	347153
Sample Reference				CP6-ES3	CP6-ES4
Sample Number				None Supplied	None Supplied
Depth (m)				5.00	10.50
Date Sampled				08/10/2024	08/10/2024
Time Taken				None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		
Dibutyl phthalate	mg/kg	0.2	NONE	-	-
Anthraquinone	mg/kg	0.3	NONE	-	-
Butyl benzyl phthalate	mg/kg	0.3	NONE	-	-

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected



Analytical Report Number : 24-047471
Project / Site name: Church Lane, Moston

* 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 *
347142	CP1-ES1	None Supplied	1	Brown sand with vegetation and stones
347143	CP1-ES2	None Supplied	4	Brown clay and sand with gravel and brick
347144	CP1-ES3	None Supplied	8.9	Brown clay and sand with stones
347145	CP3-ES1	None Supplied	1	Brown sandy clay with gravel and stones
347146	CP3-ES2	None Supplied	4	Brown clay and sand with gravel and stones
347147	CP3-ES3	None Supplied	10	Brown clay and sand with gravel
347148	CP5-ES1	None Supplied	0.5	Brown loam and clay with gravel and vegetation
347149	CP5-ES3	None Supplied	6	Brown sand with gravel
347150	CP5-ES4	None Supplied	9.3	Brown clay and sand with gravel
347151	CP6-ES1	None Supplied	1	Brown clay and sand with gravel
347152	CP6-ES3	None Supplied	5	Brown clay and sand with gravel
347153	CP6-ES4	None Supplied	10.5	Brown clay and sand with gravel

Analytical Report Number : 24-047471
Project / Site name: Church Lane, Moston

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)

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 dispersion staining techniques	In-house method based on HSG 248, 2021	A001B	D	ISO 17025
Organic matter (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate (Walkley Black Method)	In-house method	L009B	D	MCERTS
Total organic carbon (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate (Walkley Black Method)	In-house method	L009B	D	MCERTS
Sulphide in soil	Determination of sulphide in soil by acidification and heating to liberate hydrogen sulphide, trapped in an alkaline solution then assayed by ion selective electrode	In-house method	L010-PL	D	MCERTS
Moisture Content	Moisture content, determined gravimetrically (up to 30°C)	In-house method	L019B	W	NONE
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.	L019B	D	NONE
Electrical conductivity of soil	Determination of electrical conductivity in soil by electrometric measurement	In-house method	L031B	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	L038B	D	MCERTS
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES	In-house method based on Second Site Properties version 3	L038B	D	MCERTS
Total sulphate (as SO ₄ in soil)	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES	In-house method	L038B	D	MCERTS
Sulphate, water soluble, in soil (16hr extraction)	Sulphate, water soluble, in soil (16hr extraction)	In-house method	L038B	D	MCERTS
Total Sulphur in soil	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES	In-house method	L038B	D	MCERTS
Total potential sulphate in soil	Determination of total potential sulphate in soil by calculation from total sulphur	By calculation - In-house method based on TRL 447 report.	L038B	D	NONE
Speciated PAHs and/or Semi-volatile organic compounds in soil	Determination of semi-volatile organic compounds (including PAH) in soil by extraction in dichloromethane and hexane followed by GC-MS	In-house method based on USEPA 8270	L064B	D	MCERTS
BTEX and/or Volatile organic compounds in soil	Determination of volatile organic compounds in soil by headspace GC-MS	In-house method based on USEPA 8260	L073B	W	MCERTS
Total petroleum hydrocarbons with carbon banding by GC-FID/GC-MS HS in soil	Determination of total petroleum hydrocarbons in soil by GC-FID/GC-MS HS with carbon banding aliphatic and aromatic	In-house method	L076B/L088-PL	D/W	MCERTS
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in NaOH and addition of 1,5 diphenylcarbazide followed by colorimetry	In-house method	L080-PL	W	MCERTS

Analytical Report Number : 24-047471
Project / Site name: Church Lane, Moston

Water matrix abbreviations:
Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Free cyanide in soil	Determination of free cyanide by distillation followed by colorimetry	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	MCERTS
Monohydric phenols in soil	Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	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	L080-PL	W	MCERTS
Thiocyanate in soil	Determination of thiocyanate in soil by extraction in water followed by acidification followed by addition of ferric nitrate followed by discrete analyser (spectrophotometer)	In-house method	L082B	D	NONE
Redox Potential of soil	Determination of redox potential in soil by electrometric measurement versus Ag/AgCl electrode	In-house method based on Method 3580B	L084-PL	W	NONE
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement	In-house method	L099-PL	D	MCERTS

For method numbers ending in 'UK' or 'A' analysis have been carried out in our laboratory in the United Kingdom (Watford).
For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).
For method numbers ending in 'PL' or 'B' 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.
Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.

Information in Support of Analytical Results

List of HWOL Acronyms and Operators

Acronym	Descriptions
HS	Headspace Analysis
MS	Mass spectrometry
FID	Flame Ionisation Detector
GC	Gas Chromatography
EH	Extractable Hydrocarbons (i.e. everything extracted by the solvent(s))
CU	Clean-up - e.g. by Florisil®, silica gel
1D	GC - Single coil/column gas chromatography
2D	GC-GC - Double coil/column gas chromatography
Total	Aliphatics & Aromatics
AL	Aliphatics
AR	Aromatics
#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 e.g. EH+HS_Total or EH_CU+HS_Total

Quality control parameter failure associated with individual result applies to calculated sum of individuals.
The result for sum should be interpreted with caution

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Analytical Report Number : 24-046674

Project / Site name: Church Lane Moston

Samples received on: 08/10/2024

Your job number: GUK 0524 02

**Samples instructed on/
Analysis started on:** 08/10/2024

Your order number:

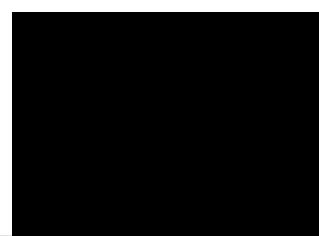
Analysis completed by: 18/10/2024

Report Issue Number: 1

Report issued on: 18/10/2024

Samples Analysed: 5 10:1 WAC samples

Signed:



Dominika Liana
Junior Reporting Specialist
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.

Analytical Report Number: 24-046674
Project / Site name: Church Lane Moston

Lab Sample Number				342578	342579	342580	342581	342582
Sample Reference				BH1-ES2	BH2-ES2	BH4-ES1	BH4-ES2	BH5-ES1
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.50	1.50	0.50	1.50	1.00
Date Sampled				04/10/2024	04/10/2024	04/10/2024	04/10/2024	04/10/2024
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status					

Stone Content	%	0.1	NONE	< 0.1	< 0.1	11.7	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	15	10	18	17	21
Total mass of sample received	kg	0.1	NONE	1	0.8	0.8	0.8	0.8

General Inorganics

pH (L005B)	pH Units	N/A	MCERTS	7.7	7.3	7.8	7.9	7.3
Total Organic Carbon (TOC) - Automated	%	0.1	MCERTS	0.7	0.8	5.5	0.3	2.3
Loss on Ignition @ 450°C	%	0.2	MCERTS	2.8	3.1	9.7	2	5.3
Acid Neutralisation Capacity	+/- mmol/kg	-9999	NONE	2.1	0.37	3.6	3.4	1.3

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	22	< 0.05	0.08
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	6.1	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	32	< 0.05	0.28
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	28	< 0.05	0.17
Phenanthrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	210	< 0.05	2.1
Anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	56	< 0.05	0.35
Fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	240	< 0.05	3.6
Pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	220	< 0.05	3.3
Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	93	< 0.05	1.6
Chrysene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	100	< 0.05	1.8
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	< 0.05	< 0.05	94	< 0.05	2
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	< 0.05	< 0.05	51	< 0.05	0.94
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	91	< 0.05	1.9
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	33	< 0.05	0.82
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	8	< 0.05	0.22
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	36	< 0.05	0.93
Coronene	mg/kg	0.05	NONE	< 0.05	< 0.05	10	< 0.05	< 0.05

Total PAH

Total WAC-17 PAHs	mg/kg	0.85	NONE	< 0.85	< 0.85	1320	< 0.85	20
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Petroleum Hydrocarbons

Mineral Oil (EC10 - EC40) EH_CU_1D_AL	mg/kg	10	NONE	< 10	< 10	260	< 10	18
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VOCs

Benzene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Toluene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Ethylbenzene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
p & m-Xylene	µg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
o-Xylene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0

Total BTEX	µg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10
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Analytical Report Number: 24-046674
Project / Site name: Church Lane Moston

Lab Sample Number				342578	342579	342580	342581	342582
Sample Reference				BH1-ES2	BH2-ES2	BH4-ES1	BH4-ES2	BH5-ES1
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.50	1.50	0.50	1.50	1.00
Date Sampled				04/10/2024	04/10/2024	04/10/2024	04/10/2024	04/10/2024
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)				Units	Test Limit of detection	Test Accreditation Status		

PCBs by GC-MS

PCB Congener 28	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
PCB Congener 52	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
PCB Congener 101	mg/kg	0.001	MCERTS	< 0.001	< 0.001	0.001	< 0.001	< 0.001
PCB Congener 118	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
PCB Congener 138	mg/kg	0.001	MCERTS	< 0.001	< 0.001	0.002	< 0.001	< 0.001
PCB Congener 153	mg/kg	0.001	MCERTS	< 0.001	< 0.001	0.001	< 0.001	< 0.001
PCB Congener 180	mg/kg	0.001	MCERTS	< 0.001 ##	< 0.001 ##	< 0.001 ##	< 0.001 ##	< 0.001 ##
Total PCBs	mg/kg	0.007	MCERTS	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected



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Waste Acceptance Criteria Analytical Results							
Report No:	24-046674						
					Client: GRNDSMTHS		
Location	Church Lane Moston						
Lab Reference (Sample Number)	342578				Landfill Waste Acceptance Criteria		
					Limits		
Sampling Date	04/10/2024				Inert Waste Landfill	Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID	BH1-ES2						
Depth (m)	0.50						
Solid Waste Analysis							
TOC (%)**	0.7				3%	5%	6%
Loss on Ignition (%) **	2.8				--	--	10%
BTEX (µg/kg) **	< 10				6000	--	--
Sum of PCBs (mg/kg) **	< 0.007				1	--	--
Mineral Oil (mg/kg) EH_ID_CU_AL	< 10				500	--	--
Total PAH (WAC-17) (mg/kg)	< 0.85				100	--	--
pH (units)**	7.7				--	>6	--
Acid Neutralisation Capacity (mmol / kg)	2.1				--	To be evaluated	To be evaluated
Eluate Analysis							
(BS EN 12457 - 2 preparation utilising end over end leaching procedure)	10:1			10:1	Limit values for compliance leaching test		
					using BS EN 12457-2 at L/S 10 l/kg (mg/kg)		
	mg/l			mg/kg			
Arsenic *	< 0.00100			< 0.0100	0.5	2	25
Barium *	0.0115			0.115	20	100	300
Cadmium *	< 0.000100			< 0.00100	0.04	1	5
Chromium *	0.00080			0.0080	0.5	10	70
Copper *	0.0048			0.048	2	50	100
Mercury *	< 0.000500			< 0.00500	0.01	0.2	2
Molybdenum *	< 0.000400			< 0.00400	0.5	10	30
Nickel *	0.0017			0.017	0.4	10	40
Lead *	< 0.0010			< 0.010	0.5	10	50
Antimony *	< 0.0017			< 0.017	0.06	0.7	5
Selenium *	< 0.0040			< 0.040	0.1	0.5	7
Zinc *	0.0052			0.052	4	50	200
Chloride *	1.2			12	800	15000	25000
Fluoride*	0.76			7.6	10	150	500
Sulphate *	3.3			33	1000	20000	50000
TDS*	25			250	4000	60000	100000
Phenol Index (Monohydric Phenols) *	< 0.010			< 0.10	1	-	-
DOC	11.2			112	500	800	1000
Leach Test Information							
Stone Content (%)	< 0.1						
Sample Mass (kg)	1.0						
Dry Matter (%)	85						
Moisture (%)	15						
Results are expressed on a dry weight basis, after correction for moisture content where applicable.					*= UKAS accredited (liquid eluate analysis only)		
Stated limits are for guidance only and i2 cannot be held responsible for any discrepancies with current legislation					** = MCERTS accredited		

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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Waste Acceptance Criteria Analytical Results							
Report No:	24-046674						
					Client: GRNDSMTHS		
Location	Church Lane Moston						
Lab Reference (Sample Number)	342579				Landfill Waste Acceptance Criteria		
					Limits		
Sampling Date	04/10/2024				Inert Waste Landfill	Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID	BH2-ES2						
Depth (m)	1.50						
Solid Waste Analysis							
TOC (%)**	0.8				3%	5%	6%
Loss on Ignition (%) **	3.1				--	--	10%
BTEX (µg/kg) **	< 10				6000	--	--
Sum of PCBs (mg/kg) **	< 0.007				1	--	--
Mineral Oil (mg/kg) EH_1D_CU_AL	< 10				500	--	--
Total PAH (WAC-17) (mg/kg)	< 0.85				100	--	--
pH (units)**	7.3				--	>6	--
Acid Neutralisation Capacity (mmol / kg)	0.37				--	To be evaluated	To be evaluated
Eluate Analysis (BS EN 12457 - 2 preparation utilising end over end leaching procedure)	10:1			10:1	Limit values for compliance leaching test		
	mg/l			mg/kg	using BS EN 12457-2 at L/S 10 l/kg (mg/kg)		
Arsenic *	< 0.00100			< 0.0100	0.5	2	25
Barium *	0.00995			0.0995	20	100	300
Cadmium *	< 0.000100			< 0.00100	0.04	1	5
Chromium *	< 0.00040			< 0.0040	0.5	10	70
Copper *	0.0076			0.076	2	50	100
Mercury *	0.000605			0.00605	0.01	0.2	2
Molybdenum *	< 0.000400			< 0.00400	0.5	10	30
Nickel *	0.00038			0.0038	0.4	10	40
Lead *	< 0.0010			< 0.010	0.5	10	50
Antimony *	< 0.0017			< 0.017	0.06	0.7	5
Selenium *	< 0.0040			< 0.040	0.1	0.5	7
Zinc *	0.0086			0.086	4	50	200
Chloride *	0.77			7.7	800	15000	25000
Fluoride*	0.79			7.9	10	150	500
Sulphate *	15			150	1000	20000	50000
TDS*	33			330	4000	60000	100000
Phenol Index (Monohydric Phenols) *	< 0.010			< 0.10	1	-	-
DOC	9.43			94.3	500	800	1000
Leach Test Information							
Stone Content (%)	< 0.1						
Sample Mass (kg)	0.8						
Dry Matter (%)	90						
Moisture (%)	10						
Results are expressed on a dry weight basis, after correction for moisture content where applicable.					*= UKAS accredited (liquid eluate analysis only)		
Stated limits are for guidance only and i2 cannot be held responsible for any discrepancies with current legislation					** = MCERTS accredited		
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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Waste Acceptance Criteria Analytical Results							
Report No:	24-046674						
					Client: GRNDSMTHS		
Location	Church Lane Moston						
Lab Reference (Sample Number)	342580				Landfill Waste Acceptance Criteria		
Sampling Date	04/10/2024				Inert Waste Landfill	Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID	BH4-ES1						
Depth (m)	0.50						
Solid Waste Analysis							
TOC (%)**	5.5				3%	5%	6%
Loss on Ignition (%) **	9.7				--	--	10%
BTEX (µg/kg) **	< 10				6000	--	--
Sum of PCBs (mg/kg) **	< 0.007				1	--	--
Mineral Oil (mg/kg) EH_1D_CU_AL	260				500	--	--
Total PAH (WAC-17) (mg/kg)	1320				100	--	--
pH (units)**	7.8				--	>6	--
Acid Neutralisation Capacity (mmol / kg)	3.6				--	To be evaluated	To be evaluated
Eluate Analysis					10:1		
(BS EN 12457 - 2 preparation utilising end over end leaching procedure)				10:1	Limit values for compliance leaching test		
					using BS EN 12457-2 at L/S 10 l/kg (mg/kg)		
	mg/l			mg/kg			
Arsenic *	0.00135			0.0135	0.5	2	25
Barium *	0.0714			0.714	20	100	300
Cadmium *	< 0.000100			< 0.00100	0.04	1	5
Chromium *	0.0017			0.017	0.5	10	70
Copper *	0.019			0.19	2	50	100
Mercury *	< 0.000500			< 0.00500	0.01	0.2	2
Molybdenum *	0.0177			0.177	0.5	10	30
Nickel *	0.0012			0.012	0.4	10	40
Lead *	0.0039			0.039	0.5	10	50
Antimony *	0.0028			0.028	0.06	0.7	5
Selenium *	< 0.0040			< 0.040	0.1	0.5	7
Zinc *	0.0053			0.053	4	50	200
Chloride *	0.53			5.3	800	15000	25000
Fluoride*	0.76			7.6	10	150	500
Sulphate *	13			130	1000	20000	50000
TTDS*	110			1100	4000	60000	100000
Phenol Index (Monohydric Phenols) *	0.012			0.12	1	-	-
DOC	11.1			111	500	800	1000
Leach Test Information							
Stone Content (%)	11.7						
Sample Mass (kg)	0.8						
Dry Matter (%)	82						
Moisture (%)	18						
Results are expressed on a dry weight basis, after correction for moisture content where applicable.					*= UKAS accredited (liquid eluate analysis only)		
Stated limits are for guidance only and i2 cannot be held responsible for any discrepancies with current legislation					** = MCERTS accredited		

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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Waste Acceptance Criteria Analytical Results							
Report No:	24-046674						
					Client: GRNDSMTHS		
Location	Church Lane Moston						
Lab Reference (Sample Number)	342581				Landfill Waste Acceptance Criteria		
Sampling Date	04/10/2024				Inert Waste Landfill	Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID	BH4-ES2						
Depth (m)	1.50						
Solid Waste Analysis							
TOC (%)**	0.3				3%	5%	6%
Loss on Ignition (%) **	2.0				--	--	10%
BTEX (µg/kg) **	< 10				6000	--	--
Sum of PCBs (mg/kg) **	< 0.007				1	--	--
Mineral Oil (mg/kg) EH_1D_CU_AL	< 10				500	--	--
Total PAH (WAC-17) (mg/kg)	< 0.85				100	--	--
pH (units)**	7.9				--	>6	--
Acid Neutralisation Capacity (mmol / kg)	3.4				--	To be evaluated	To be evaluated
Eluate Analysis (BS EN 12457 - 2 preparation utilising end over end leaching procedure)	10:1			10:1	Limit values for compliance leaching test		
	mg/l			mg/kg	using BS EN 12457-2 at L/S 10 l/kg (mg/kg)		
Arsenic *	0.00114			0.0114	0.5	2	25
Barium *	0.00726			0.0726	20	100	300
Cadmium *	< 0.000100			< 0.00100	0.04	1	5
Chromium *	0.0015			0.015	0.5	10	70
Copper *	0.0085			0.085	2	50	100
Mercury *	< 0.000500			< 0.00500	0.01	0.2	2
Molybdenum *	0.000807			0.00807	0.5	10	30
Nickel *	0.00042			0.0042	0.4	10	40
Lead *	0.0019			0.019	0.5	10	50
Antimony *	< 0.0017			< 0.017	0.06	0.7	5
Selenium *	< 0.0040			< 0.040	0.1	0.5	7
Zinc *	0.0034			0.034	4	50	200
Chloride *	0.86			8.6	800	15000	25000
Fluoride*	1.3			13	10	150	500
Sulphate *	2.1			21	1000	20000	50000
TTDS*	27			270	4000	60000	100000
Phenol Index (Monohydric Phenols) *	< 0.010			< 0.10	1	-	-
DOC	19.4			194	500	800	1000
Leach Test Information							
Stone Content (%)	< 0.1						
Sample Mass (kg)	0.8						
Dry Matter (%)	83						
Moisture (%)	17						
Results are expressed on a dry weight basis, after correction for moisture content where applicable.					*= UKAS accredited (liquid eluate analysis only)		
Stated limits are for guidance only and i2 cannot be held responsible for any discrepancies with current legislation					** = MCERTS accredited		

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.
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Waste Acceptance Criteria Analytical Results							
Report No:	24-046674						
					Client: GRNDSMTHS		
Location	Church Lane Moston						
Lab Reference (Sample Number)	342582				Landfill Waste Acceptance Criteria		
Sampling Date	04/10/2024				Inert Waste Landfill	Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID	BH5-ES1						
Depth (m)	1.00						
Solid Waste Analysis							
TOC (%)**	2.3				3%	5%	6%
Loss on Ignition (%) **	5.3				--	--	10%
BTEX (µg/kg) **	< 10				6000	--	--
Sum of PCBs (mg/kg) **	< 0.007				1	--	--
Mineral Oil (mg/kg) EH_1D_CU_AL	18				500	--	--
Total PAH (WAC-17) (mg/kg)	20.0				100	--	--
pH (units)**	7.3				--	>6	--
Acid Neutralisation Capacity (mmol / kg)	1.3				--	To be evaluated	To be evaluated
Eluate Analysis					Limit values for compliance leaching test		
(BS EN 12457 - 2 preparation utilising end over end leaching procedure)	10:1			10:1	using BS EN 12457-2 at L/S 10 l/kg (mg/kg)		
	mg/l			mg/kg			
Arsenic *	< 0.00100			< 0.0100	0.5	2	25
Barium *	0.0374			0.374	20	100	300
Cadmium *	< 0.000100			< 0.00100	0.04	1	5
Chromium *	0.0016			0.016	0.5	10	70
Copper *	0.027			0.27	2	50	100
Mercury *	< 0.000500			< 0.00500	0.01	0.2	2
Molybdenum *	0.00214			0.0214	0.5	10	30
Nickel *	0.0024			0.024	0.4	10	40
Lead *	0.0022			0.022	0.5	10	50
Antimony *	< 0.0017			< 0.017	0.06	0.7	5
Selenium *	< 0.0040			< 0.040	0.1	0.5	7
Zinc *	0.014			0.14	4	50	200
Chloride *	0.99			9.9	800	15000	25000
Fluoride*	0.84			8.4	10	150	500
Sulphate *	1.7			17	1000	20000	50000
TTDS*	89			890	4000	60000	100000
Phenol Index (Monohydric Phenols) *	< 0.010			< 0.10	1	-	-
DOC	14.1			141	500	800	1000
Leach Test Information							
Stone Content (%)	< 0.1						
Sample Mass (kg)	0.8						
Dry Matter (%)	79						
Moisture (%)	21						
Results are expressed on a dry weight basis, after correction for moisture content where applicable.					*= UKAS accredited (liquid eluate analysis only)		
Stated limits are for guidance only and i2 cannot be held responsible for any discrepancies with current legislation					** = MCERTS accredited		

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 : 24-046674
Project / Site name: Church Lane Moston

* 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 *
342578	BH1-ES2	None Supplied	0.5	Brown clay and sand with gravel
342579	BH2-ES2	None Supplied	1.5	Brown clay and sand with gravel
342580	BH4-ES1	None Supplied	0.5	Brown loam and clay with gravel and stones
342581	BH4-ES2	None Supplied	1.5	Brown clay and sand with gravel
342582	BH5-ES1	None Supplied	1	Brown loam and clay with gravel and vegetation

Analytical Report Number : 24-046674
Project / Site name: Church Lane Moston

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
pH at 20°C in soil	Determination of pH in soil by addition of water followed by electrometric measurement	In-house method	L005B	W	MCERTS
Total organic carbon (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate (Walkley Black Method)	In-house method	L009B	D	MCERTS
Moisture Content	Moisture content, determined gravimetrically (up to 30°C)	In-house method	L019B	W	NONE
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.	L019B	D	NONE
PCB's By GC-MS in soil	Determination of PCB by extraction with hexane followed by GC-MS	In-house method based on USEPA 8082	L027B	D	MCERTS
Total dissolved solids 10:1 WAC	Determination of total dissolved solids in water by electrometric measurement	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L031B	W	ISO 17025
Fluoride 10:1 WAC	Determination of fluoride in leachate by 1:1ratio with a buffer solution followed by Ion Selective Electrode	In-house method based on Use of Total Ionic Strength Adjustment Buffer for Electrode Determination	L033B	W	ISO 17025
Dissolved organic carbon 10:1 WAC	Determination of dissolved organic carbon in leachate by TOC/DOC NDIR Analyser	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L037B	W	NONE
Metals in leachate by ICP-OES	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	L039B	W	ISO 17025
Sample Preparation		In-house method	L043B	W	NONE
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 an Sampling and Testing of Wastes to Meet Landfill Waste Acceptance	L046B	W	NONE
Loss on ignition of soil @ 450°C	Determination of loss on ignition in soil by gravimetrically with the sample being ignited in a muffle furnace	In-house method	L047-PL	D	MCERTS
Speciated PAHs and/or Semi-volatile organic compounds in soil	Determination of semi-volatile organic compounds (including PAH) in soil by extraction in dichloromethane and hexane followed by GC-MS	In-house method based on USEPA 8270	L064B	D	MCERTS
BTEX and/or Volatile organic compounds in soil	Determination of volatile organic compounds in soil by headspace GC-MS	In-house method based on USEPA 8260	L073B	W	MCERTS
Total petroleum hydrocarbons by GC-FID/GC-MS HS in soil	Determination of total petroleum hydrocarbons in soil by GC-FID/GC-MS HS	In-house method	L076B/L088-PL	D/W	NONE
Monohydric phenols 10:1 WAC	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	L080-PL	W	ISO 17025
Chloride 10:1 WAC	Determination of Chloride colorimetrically by discrete analyser	In-house based on MEWAM Method ISBN 0117516260	L082B	W	ISO 17025



Analytical Report Number : 24-046674
Project / Site name: Church Lane Moston

Water matrix abbreviations:
Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)

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' or 'A' analysis have been carried out in our laboratory in the United Kingdom (Watford).
For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).
For method numbers ending in 'PL' or 'B' 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.
Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.

Information in Support of Analytical Results

List of HWOL Acronyms and Operators

Acronym	Descriptions
HS	Headspace Analysis
MS	Mass spectrometry
FID	Flame Ionisation Detector
GC	Gas Chromatography
EH	Extractable Hydrocarbons (i.e. everything extracted by the solvent(s))
CU	Clean-up - e.g. by Florisil®, silica gel
1D	GC - Single coil/column gas chromatography
2D	GC-GC - Double coil/column gas chromatography
Total	Aliphatics & Aromatics
AL	Aliphatics
AR	Aromatics
#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 e.g. EH+HS_Total or EH_CU+HS_Total

Quality control parameter failure associated with individual result applies to calculated sum of individuals.
The result for sum should be interpreted with caution

- Quality control parameter has a high recovery (outside of limit); however the associated result is below the reporting limit, other checks applied prior to reporting the data have been accepted. The result should be considered as being deviating and may be compromised.

Table 5.11 - UKWIR Data

Table 5.11 - UKWIR Data				Made Ground													
Lab Sample Number				342560	342562	342565	342567	342568	347143	342569	342570	347145	347146	342573	342574	347149	347151
Sample Reference				BH3-ES1	BH4-ES1	BH5-ES2	BH6-ES2	BH7-ES1	CP1-ES2	CP2-ES1	CP2-ES4	CP3-ES1	CP3-ES2	CP4-ES2	CP4-ES4	CP5-ES3	CP6-ES1
Depth (m)				0.50	0.50	2.00	1.50	0.50	4.00	0.50	5.00	1.00	4.00	1.50	5.50	6.00	1.00
Date Sampled				04/10/2024	04/10/2024	04/10/2024	04/10/2024	04/10/2024	10/10/2024	03/10/2024	03/10/2024	09/10/2024	09/10/2024	02/10/2024	02/10/2024	07/10/2024	08/10/2024
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status														
General Inorganics																	
pH (L099)	pH Units	N/A	MCERTS	11	8.2	10.4	7.9	8	8.1	11.8	8.6	9	7.8	9	7.7	9.3	8.4
Electrical Conductivity	µS/cm	10	MCERTS	620	240	330	480	210	470	2100	1100	230	1100	430	1700	230	390
Redox Potential	mV	-800	NONE	239.8	232.6	242.3	194.4	193.9	172.4	188.6	228.2	175.3	175.5	234.8	226	171.3	162.6
Total Phenols																	
Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Petroleum Hydrocarbons																	
TPHCWG - Aliphatic >EC5 - EC6 _{HS_1D_AL}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aliphatic >EC6 - EC8 _{HS_1D_AL}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aliphatic >EC8 - EC10 _{HS_1D_AL}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aliphatic >EC10 - EC12 _{EH_CU_1D_AL}	mg/kg	1	MCERTS	4.6	3.8	< 1.0	< 1.0	2.9	< 1.0	< 1.0	3.9	< 1.0	2.4	< 1.0	< 1.0	< 1.0	1.1
TPHCWG - Aliphatic >EC12 - EC16 _{EH_CU_1D_AL}	mg/kg	2	MCERTS	30	17	< 2.0	< 2.0	9.3	2.7	< 2.0	43	< 2.0	5.1	6.1	6.4	< 2.0	3.7
TPHCWG - Aliphatic >EC16 - EC21 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	46	32	< 8.0	13	12	< 8.0	< 8.0	150	< 8.0	< 8.0	24	12	< 8.0	< 8.0
TPHCWG - Aliphatic >EC16 - EC35 _{EH_CU_1D_AL}	mg/kg	10	MCERTS	280	200	56	140	49	10	22	730	< 10	17	85	56	< 10	12
TPHCWG - Aliphatic >EC21 - EC35 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	240	170	56	130	37	10	22	580	9.5	17	61	45	< 8.0	12
TPHCWG - Aliphatic >EC35 - EC44 _{EH_CU_1D_AL}	mg/kg	8.4	NONE	87	84	21	39	8.8	< 8.4	< 8.4	130	< 8.4	< 8.4	24	18	< 8.4	< 8.4
TPHCWG - Aliphatic >EC5 - EC35 _{EH_CU+HS_1D_AL}	mg/kg	10	NONE	320	220	56	140	61	13	22	780	< 10	25	91	63	< 10	17
TPHCWG - Aliphatic >EC5 - EC44 _{EH_CU+HS_1D_AL}	mg/kg	10	NONE	400	310	77	180	70	13	22	910	< 10	25	120	81	< 10	17
TPHCWG - Aromatic >EC5 - EC7 _{HS_1D_AR}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aromatic >EC7 - EC8 _{HS_1D_AR}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	0.016	< 0.010	< 0.010
TPHCWG - Aromatic >EC8 - EC10 _{HS_1D_AR}	mg/kg	0.02	MCERTS	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	0.057	< 0.020	< 0.020
TPHCWG - Aromatic >EC10 - EC12 _{EH_CU_1D_AR}	mg/kg	1	MCERTS	6.6	23	< 1.0	< 1.0	9.2	< 1.0	< 1.0	1.5	< 1.0	1.6	< 1.0	17	< 1.0	< 1.0
TPHCWG - Aromatic >EC12 - EC16 _{EH_CU_1D_AR}	mg/kg	2	MCERTS	140	180	8.1	17	66	6.2	6	39	4.6	7	14	120	< 2.0	4.1
TPHCWG - Aromatic >EC16 - EC21 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	810	830	29	42	240	25	30	180	22	30	50	380	< 10	12
TPHCWG - Aromatic >EC21 - EC35 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	1700	1200	63	160	300	27	73	390	37	51	81	430	< 10	21
TPHCWG - Aromatic >EC35 - EC44 _{EH_CU_1D_AR}	mg/kg	8.4	NONE	400	310	28	70	43	< 8.4	23	110	11	< 8.4	32	22	< 8.4	< 8.4
TPHCWG - Aromatic >EC5 - EC35 _{EH_CU+HS_1D_AR}	mg/kg	10	NONE	2700	2200	100	210	620	58	110	610	64	89	150	940	< 10	38
TPHCWG - Aromatic >EC5 - EC44 _{EH_CU+HS_1D_AR}	mg/kg	10	NONE	3000	2600	130	280	660	58	130	720	75	89	180	960	< 10	38
VOCs																	
Chloromethane	mg/kg	0.005	MCERTS	-	-	<0.005	<0.005	-	-	<0.005	-	<0.005	-	<0.005	-	-	<0.005
Chloroethane	mg/kg	0.005	MCERTS	-	-	<0.005	<0.005	-	-	<0.005	-	<0.005	-	<0.005	-	-	<0.005
Bromomethane	mg/kg	0.005	MCERTS	-	-	<0.005	<0.005	-	-	<0.005	-	<0.005	-	<0.005	-	-	<0.005
Vinyl Chloride	mg/kg	0.005	NONE	-	-	<0.005	<0.005	-	-	<0.005	-	<0.005	-	<0.005	-	-	<0.005
Trichlorofluoromethane	mg/kg	0.005	MCERTS	-	-	<0.005	<0.005	-	-	<0.005	-	<0.005	-	<0.005	-	-	<0.005
1,1-Dichloroethene	mg/kg	0.005	MCERTS	-	-	<0.005	<0.005	-	-	<0.005	-	<0.005	-	<0.005	-	-	<0.005
1,1,2-Trichloro 1,2,2-Trifluoroethane	mg/kg	0.005	MCERTS	-	-	<0.005	<0.005	-	-	<0.005	-	<0.005	-	<0.005	-	-	<0.005
Trans 1,2-dichloroethylene	mg/kg	0.005	MCERTS	-	-	<0.005	<0.005	-	-	<0.005	-	<0.005	-	<0.005	-	-	<0.005
MTBE (Methyl Tertiary Butyl Ether)	mg/kg	0.005	MCERTS	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,1-Dichloroethane	mg/kg	0.005	MCERTS	-	-	<0.005	<0.005	-	-	<0.005	-	<0.005	-	<0.005	-	-	<0.005
2,2-Dichloropropane	mg/kg	0.005	NONE	-	-	<0.005	<0.005	-	-	<0.005	-	<0.005	-	<0.005	-	-	<0.005
Chloroform	mg/kg	0.005	MCERTS	-	-	<0.005	<0.005	-	-	<0.005	-	<0.005	-	<0.005	-	-	<0.005
1,1,1-Trichloroethane	mg/kg	0.005	MCERTS	-	-	<0.005	<0.005	-	-	<0.005	-	<0.005	-	<0.005	-	-	<0.005
1,2-Dichloroethane	mg/kg	0.007	MCERTS	-	-	<0.007	<0.007	-	-	<0.007	-	<0.007	-	<0.007	-	-	<0.007
1,1-Dichloropropene	mg/kg	0.005	MCERTS	-	-	<0.005	<0.005	-	-	<0.005	-	<0.005	-	<0.005	-	-	<0.005
Cis-1,2-dichloroethene	mg/kg	0.005	MCERTS	-	-	<0.005	<0.005	-	-	<0.005	-	<0.005	-	<0.005	-	-	<0.005
Benzene	mg/kg	0.005	MCERTS	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Carbontetrachloride	mg/kg	0.005	MCERTS	-	-	<0.005	<0.005	-	-	<0.005	-	<0.005	-	<0.005	-	-	<0.005
1,2-Dichloropropane	mg/kg	0.006	MCERTS	-	-	<0.006	<0.006	-	-	<0.006	-	<0.006	-	<0.006	-	-	<0.006
Trichloroethene	mg/kg	0.01	MCERTS	-	-	<0.01	<0.01	-	-	<0.01	-	<0.01	-	<0.01	-	-	<0.01
Dibromomethane	mg/kg	0.005	MCERTS	-	-	<0.005	<0.005	-	-	<0.005	-	<0.005	-	<0.005	-	-	<0.005
Bromodichloromethane	mg/kg	0.005	MCERTS	-	-	<0.005	<0.005	-	-	<0.005	-	<0.005	-	<0.005	-	-	<0.005
Cis-1,3-dichloropropene	mg/kg	0.005	MCERTS	-	-	<0.005	<0.005	-	-	<0.005	-	<0.005	-	<0.005	-	-	<0.005
Trans-1,3-dichloropropene	mg/kg	0.01	MCERTS	-	-	<0.01	<0.01	-	-	<0.01	-	<0.01	-	<0.01	-	-	<0.01

Table 5.11 - UKWIR Data

				Natural Strata		
Lab Sample Number				342557	342561	342563
Sample Reference				BH1-ES3	BH3-ES2	BH4-ES2
Depth (m)				1.50	2.00	1.50
Date Sampled				04/10/2024	04/10/2024	04/10/2024
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status			
General Inorganics						
pH (L099)	pH Units	N/A	MCERTS	8.2	7.9	7.8
Electrical Conductivity	µS/cm	10	MCERTS	200	110	110
Redox Potential	mV	-800	NONE	219	229.2	235.9
Total Phenols						
Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
Petroleum Hydrocarbons						
TPHCWG - Aliphatic >EC5 - EC6 _{HS_1D_AL}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010
TPHCWG - Aliphatic >EC6 - EC8 _{HS_1D_AL}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010
TPHCWG - Aliphatic >EC8 - EC10 _{HS_1D_AL}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010
TPHCWG - Aliphatic >EC10 - EC12 _{EH_CU_1D_AL}	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
TPHCWG - Aliphatic >EC12 - EC16 _{EH_CU_1D_AL}	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0
TPHCWG - Aliphatic >EC16 - EC21 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0
TPHCWG - Aliphatic >EC16 - EC35 _{EH_CU_1D_AL}	mg/kg	10	MCERTS	< 10	< 10	< 10
TPHCWG - Aliphatic >EC21 - EC35 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0
TPHCWG - Aliphatic >EC35 - EC44 _{EH_CU_1D_AL}	mg/kg	8.4	NONE	< 8.4	< 8.4	< 8.4
TPHCWG - Aliphatic >EC5 - EC35 _{EH_CU+HS_1D_AL}	mg/kg	10	NONE	< 10	< 10	< 10
TPHCWG - Aliphatic >EC5 - EC44 _{EH_CU+HS_1D_AL}	mg/kg	10	NONE	< 10	< 10	< 10
TPHCWG - Aromatic >EC5 - EC7 _{HS_1D_AR}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010
TPHCWG - Aromatic >EC7 - EC8 _{HS_1D_AR}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010
TPHCWG - Aromatic >EC8 - EC10 _{HS_1D_AR}	mg/kg	0.02	MCERTS	< 0.020	< 0.020	< 0.020
TPHCWG - Aromatic >EC10 - EC12 _{EH_CU_1D_AR}	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
TPHCWG - Aromatic >EC12 - EC16 _{EH_CU_1D_AR}	mg/kg	2	MCERTS	< 2.0	6	< 2.0
TPHCWG - Aromatic >EC16 - EC21 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	< 10	< 10	< 10
TPHCWG - Aromatic >EC21 - EC35 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	< 10	< 10	< 10
TPHCWG - Aromatic >EC35 - EC44 _{EH_CU_1D_AR}	mg/kg	8.4	NONE	< 8.4	< 8.4	< 8.4
TPHCWG - Aromatic >EC5 - EC35 _{EH_CU+HS_1D_AR}	mg/kg	10	NONE	< 10	< 10	< 10
TPHCWG - Aromatic >EC5 - EC44 _{EH_CU+HS_1D_AR}	mg/kg	10	NONE	< 10	< 10	< 10
VOCs						
Chloromethane	mg/kg	0.005	MCERTS	<0.005	<0.005	<0.005
Chloroethane	mg/kg	0.005	MCERTS	<0.005	<0.005	<0.005
Bromomethane	mg/kg	0.005	MCERTS	<0.005	<0.005	<0.005
Vinyl Chloride	mg/kg	0.005	NONE	<0.005	<0.005	<0.005
Trichlorofluoromethane	mg/kg	0.005	MCERTS	<0.005	<0.005	<0.005
1,1-Dichloroethene	mg/kg	0.005	MCERTS	<0.005	<0.005	<0.005
1,1,2-Trichloro 1,2,2-Trifluoroethane	mg/kg	0.005	MCERTS	<0.005	<0.005	<0.005
Trans 1,2-dichloroethylene	mg/kg	0.005	MCERTS	<0.005	<0.005	<0.005
MTBE (Methyl Tertiary Butyl Ether)	mg/kg	0.005	MCERTS	<0.005	<0.005	<0.005
1,1-Dichloroethane	mg/kg	0.005	MCERTS	<0.005	<0.005	<0.005
2,2-Dichloropropane	mg/kg	0.005	NONE	<0.005	<0.005	<0.005
Chloroform	mg/kg	0.005	MCERTS	<0.005	<0.005	<0.005
1,1,1-Trichloroethane	mg/kg	0.005	MCERTS	<0.005	<0.005	<0.005
1,2-Dichloroethane	mg/kg	0.007	MCERTS	<0.007	<0.007	<0.007
1,1-Dichloropropene	mg/kg	0.005	MCERTS	<0.005	<0.005	<0.005
Cis-1,2-dichloroethene	mg/kg	0.005	MCERTS	<0.005	<0.005	<0.005
Benzene	mg/kg	0.005	MCERTS	<0.005	<0.005	<0.005
Carbontetrachloride	mg/kg	0.005	MCERTS	<0.005	<0.005	<0.005
1,2-Dichloropropane	mg/kg	0.006	MCERTS	<0.006	<0.006	<0.006
Trichloroethene	mg/kg	0.01	MCERTS	<0.01	<0.01	<0.01
Dibromomethane	mg/kg	0.005	MCERTS	<0.005	<0.005	<0.005
Bromodichloromethane	mg/kg	0.005	MCERTS	<0.005	<0.005	<0.005
Cis-1,3-dichloropropene	mg/kg	0.005	MCERTS	<0.005	<0.005	<0.005
Trans-1,3-dichloropropene	mg/kg	0.01	MCERTS	<0.01	<0.01	<0.01

Table 5.11 - UKWIR Data

				Made Ground													
Lab Sample Number				342560	342562	342565	342567	342568	347143	342569	342570	347145	347146	342573	342574	347149	347151
Sample Reference				BH3-ES1	BH4-ES1	BH5-ES2	BH6-ES2	BH7-ES1	CP1-ES2	CP2-ES1	CP2-ES4	CP3-ES1	CP3-ES2	CP4-ES2	CP4-ES4	CP5-ES3	CP6-ES1
Depth (m)				0.50	0.50	2.00	1.50	0.50	4.00	0.50	5.00	1.00	4.00	1.50	5.50	6.00	1.00
Date Sampled				04/10/2024	04/10/2024	04/10/2024	04/10/2024	04/10/2024	10/10/2024	03/10/2024	03/10/2024	09/10/2024	09/10/2024	02/10/2024	02/10/2024	07/10/2024	08/10/2024
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status														
Toluene	mg/kg	0.005	MCERTS	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.014	<0.005	<0.005
1,1,2-Trichloroethane	mg/kg	0.006	MCERTS	-	-	<0.006	<0.006	-	-	<0.006	-	<0.006	-	<0.006	-	-	<0.006
1,3-Dichloropropane	mg/kg	0.005	MCERTS	-	-	<0.005	<0.005	-	-	<0.005	-	<0.005	-	<0.005	-	-	<0.005
Dibromochloromethane	mg/kg	0.005	MCERTS	-	-	<0.005	<0.005	-	-	<0.005	-	<0.005	-	<0.005	-	-	<0.005
Tetrachloroethene	mg/kg	0.005	MCERTS	-	-	<0.005	<0.005	-	-	<0.005	-	<0.005	-	<0.005	-	-	<0.005
1,2-Dibromoethane	mg/kg	0.005	MCERTS	-	-	<0.005	<0.005	-	-	<0.005	-	<0.005	-	<0.005	-	-	<0.005
Chlorobenzene	mg/kg	0.005	MCERTS	-	-	<0.005	<0.005	-	-	<0.005	-	<0.005	-	<0.005	-	-	<0.005
1,1,1,2-Tetrachloroethane	mg/kg	0.005	MCERTS	-	-	<0.005	<0.005	-	-	<0.005	-	<0.005	-	<0.005	-	-	<0.005
Ethylbenzene	mg/kg	0.005	MCERTS	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.016	<0.005	<0.005
p & m-Xylene	mg/kg	0.008	MCERTS	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	0.014	<0.008	<0.008
Styrene	mg/kg	0.005	MCERTS	-	-	<0.005	<0.005	-	-	<0.005	-	<0.005	-	<0.005	-	-	<0.005
Bromoform	mg/kg	0.005	MCERTS	-	-	<0.005	<0.005	-	-	<0.005	-	<0.005	-	<0.005	-	-	<0.005
o-Xylene	mg/kg	0.005	MCERTS	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.013	<0.005	<0.005
Isopropylbenzene	mg/kg	0.005	MCERTS	-	-	<0.005	<0.005	-	-	<0.005	-	<0.005	-	<0.005	-	-	<0.005
1,1,2,2-Tetrachloroethane	mg/kg	0.005	NONE	-	-	<0.005	<0.005	-	-	<0.005	-	<0.005	-	<0.005	-	-	<0.005
Bromobenzene	mg/kg	0.005	MCERTS	-	-	<0.005	<0.005	-	-	<0.005	-	<0.005	-	<0.005	-	-	<0.005
n-Propylbenzene	mg/kg	0.005	MCERTS	-	-	<0.005	<0.005	-	-	<0.005	-	<0.005	-	<0.005	-	-	<0.005
2-Chlorotoluene	mg/kg	0.005	MCERTS	-	-	<0.005	<0.005	-	-	<0.005	-	<0.005	-	<0.005	-	-	<0.005
4-Chlorotoluene	mg/kg	0.005	MCERTS	-	-	<0.005	<0.005	-	-	<0.005	-	<0.005	-	<0.005	-	-	<0.005
1,3,5-Trimethylbenzene	mg/kg	0.005	MCERTS	-	-	<0.005	<0.005	-	-	<0.005	-	<0.005	-	<0.005	-	-	<0.005
tert-Butylbenzene	mg/kg	0.005	MCERTS	-	-	<0.005	<0.005	-	-	<0.005	-	<0.005	-	<0.005	-	-	<0.005
1,2,4-Trimethylbenzene	mg/kg	0.005	MCERTS	-	-	<0.005	<0.005	-	-	<0.005	-	<0.005	-	<0.005	-	-	<0.005
sec-Butylbenzene	mg/kg	0.005	MCERTS	-	-	<0.005	<0.005	-	-	<0.005	-	<0.005	-	<0.005	-	-	<0.005
1,3-Dichlorobenzene	mg/kg	0.005	MCERTS	-	-	<0.005	<0.005	-	-	<0.005	-	<0.005	-	<0.005	-	-	<0.005
p-Isopropyltoluene	mg/kg	0.005	MCERTS	-	-	<0.005	<0.005	-	-	<0.005	-	<0.005	-	<0.005	-	-	<0.005
1,4-Dichlorobenzene	mg/kg	0.005	MCERTS	-	-	<0.005	<0.005	-	-	<0.005	-	<0.005	-	<0.005	-	-	<0.005
1,2-Dichlorobenzene	mg/kg	0.005	MCERTS	-	-	<0.005	<0.005	-	-	<0.005	-	<0.005	-	<0.005	-	-	<0.005
Butylbenzene	mg/kg	0.005	MCERTS	-	-	<0.005	<0.005	-	-	<0.005	-	<0.005	-	<0.005	-	-	<0.005
1,2-Dibromo-3-chloropropane	mg/kg	0.008	MCERTS	-	-	<0.008	<0.008	-	-	<0.008	-	<0.008	-	<0.008	-	-	<0.008
1,2,4-Trichlorobenzene	mg/kg	0.005	MCERTS	-	-	<0.005	<0.005	-	-	<0.005	-	<0.005	-	<0.005	-	-	<0.005
Hexachlorobutadiene	mg/kg	0.005	MCERTS	-	-	<0.005	<0.005	-	-	<0.005	-	<0.005	-	<0.005	-	-	<0.005
1,2,3-Trichlorobenzene	mg/kg	0.005	MCERTS	-	-	<0.005	<0.005	-	-	<0.005	-	<0.005	-	<0.005	-	-	<0.005
SVOCS																	
Aniline	mg/kg	0.1	NONE	-	-	< 0.1	< 0.1	-	-	< 0.1	-	< 0.1	-	< 0.1	-	-	< 0.1
Phenol	mg/kg	0.2	ISO 17025	-	-	< 0.2	< 0.2	-	-	< 0.2	-	< 0.2	-	< 0.2	-	-	< 0.2
2-Chlorophenol	mg/kg	0.1	MCERTS	-	-	< 0.1	< 0.1	-	-	< 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	-	< 0.2	-	-	< 0.2
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	-	-	< 0.2	< 0.2	-	-	< 0.2	-	< 0.2	-	< 0.2	-	-	< 0.2
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	-	-	< 0.1	< 0.1	-	-	< 0.1	-	< 0.1	-	< 0.1	-	-	< 0.1
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	-	-	< 0.2	< 0.2	-	-	< 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	-	< 0.1	-	-	< 0.1
2-Methylphenol	mg/kg	0.3	MCERTS	-	-	< 0.3	< 0.3	-	-	< 0.3	-	< 0.3	-	< 0.3	-	-	< 0.3
Hexachloroethane	mg/kg	0.05	ISO 17025	-	-	< 0.05	< 0.05	-	-	< 0.05	-	< 0.05	-	< 0.05	-	-	< 0.05
Nitrobenzene	mg/kg	0.3	MCERTS	-	-	< 0.3	< 0.3	-	-	< 0.3	-	< 0.3	-	< 0.3	-	-	< 0.3
4-Methylphenol	mg/kg	0.2	NONE	-	-	< 0.2	< 0.2	-	-	< 0.2	-	< 0.2	-	< 0.2	-	-	< 0.2
Isophorone	mg/kg	0.2	MCERTS	-	-	< 0.2	< 0.2	-	-	< 0.2	-	< 0.2	-	< 0.2	-	-	< 0.2
2-Nitrophenol	mg/kg	0.3	NONE	-	-	< 0.3	< 0.3	-	-	< 0.3	-	< 0.3	-	< 0.3	-	-	< 0.3
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	-	-	< 0.3	< 0.3	-	-	< 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	-	< 0.3	-	-	< 0.3
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	-	-	< 0.3	< 0.3	-	-	< 0.3	-	< 0.3	-	< 0.3	-	-	< 0.3
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	-	-	< 0.3	< 0.3	-	-	< 0.3	-	< 0.3	-	< 0.3	-	-	< 0.3
4-Chloroaniline	mg/kg	0.1	NONE	-	-	< 0.1	< 0.1	-	-	< 0.1	-	< 0.1	-	< 0.1	-	-	< 0.1
Hexachlorobutadiene	mg/kg	0.1	MCERTS	-	-	< 0.1	< 0.1	-	-	< 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	-	< 0.1	-	-	< 0.1

Table 5.11 - UKWIR Data

				Natural Strata		
Lab Sample Number				342557	342561	342563
Sample Reference				BH1-ES3	BH3-ES2	BH4-ES2
Depth (m)				1.50	2.00	1.50
Date Sampled				04/10/2024	04/10/2024	04/10/2024
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status			
Toluene	mg/kg	0.005	MCERTS	<0.005	<0.005	<0.005
1,1,2-Trichloroethane	mg/kg	0.006	MCERTS	<0.006	<0.006	<0.006
1,3-Dichloropropane	mg/kg	0.005	MCERTS	<0.005	<0.005	<0.005
Dibromochloromethane	mg/kg	0.005	MCERTS	<0.005	<0.005	<0.005
Tetrachloroethene	mg/kg	0.005	MCERTS	<0.005	<0.005	<0.005
1,2-Dibromoethane	mg/kg	0.005	MCERTS	<0.005	<0.005	<0.005
Chlorobenzene	mg/kg	0.005	MCERTS	<0.005	<0.005	<0.005
1,1,1,2-Tetrachloroethane	mg/kg	0.005	MCERTS	<0.005	<0.005	<0.005
Ethylbenzene	mg/kg	0.005	MCERTS	<0.005	<0.005	<0.005
p & m-Xylene	mg/kg	0.008	MCERTS	<0.008	<0.008	<0.008
Styrene	mg/kg	0.005	MCERTS	<0.005	<0.005	<0.005
Bromoform	mg/kg	0.005	MCERTS	<0.005	<0.005	<0.005
o-Xylene	mg/kg	0.005	MCERTS	<0.005	<0.005	<0.005
Isopropylbenzene	mg/kg	0.005	MCERTS	<0.005	<0.005	<0.005
1,1,2,2-Tetrachloroethane	mg/kg	0.005	NONE	<0.005	<0.005	<0.005
Bromobenzene	mg/kg	0.005	MCERTS	<0.005	<0.005	<0.005
n-Propylbenzene	mg/kg	0.005	MCERTS	<0.005	<0.005	<0.005
2-Chlorotoluene	mg/kg	0.005	MCERTS	<0.005	<0.005	<0.005
4-Chlorotoluene	mg/kg	0.005	MCERTS	<0.005	<0.005	<0.005
1,3,5-Trimethylbenzene	mg/kg	0.005	MCERTS	<0.005	<0.005	<0.005
tert-Butylbenzene	mg/kg	0.005	MCERTS	<0.005	<0.005	<0.005
1,2,4-Trimethylbenzene	mg/kg	0.005	MCERTS	<0.005	<0.005	<0.005
sec-Butylbenzene	mg/kg	0.005	MCERTS	<0.005	<0.005	<0.005
1,3-Dichlorobenzene	mg/kg	0.005	MCERTS	<0.005	<0.005	<0.005
p-Isopropyltoluene	mg/kg	0.005	MCERTS	<0.005	<0.005	<0.005
1,4-Dichlorobenzene	mg/kg	0.005	MCERTS	<0.005	<0.005	<0.005
1,2-Dichlorobenzene	mg/kg	0.005	MCERTS	<0.005	<0.005	<0.005
Butylbenzene	mg/kg	0.005	MCERTS	<0.005	<0.005	<0.005
1,2-Dibromo-3-chloropropane	mg/kg	0.008	MCERTS	<0.008	<0.008	<0.008
1,2,4-Trichlorobenzene	mg/kg	0.005	MCERTS	<0.005	<0.005	<0.005
Hexachlorobutadiene	mg/kg	0.005	MCERTS	<0.005	<0.005	<0.005
1,2,3-Trichlorobenzene	mg/kg	0.005	MCERTS	<0.005	<0.005	<0.005
SVOCs						
Aniline	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1
Phenol	mg/kg	0.2	ISO 17025	< 0.2	< 0.2	< 0.2
2-Chlorophenol	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1
2-Methylphenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3
Hexachloroethane	mg/kg	0.05	ISO 17025	< 0.05	< 0.05	< 0.05
Nitrobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3
4-Methylphenol	mg/kg	0.2	NONE	< 0.2	< 0.2	< 0.2
Isophorone	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2
2-Nitrophenol	mg/kg	0.3	NONE	< 0.3	< 0.3	< 0.3
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3
4-Chloroaniline	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1
Hexachlorobutadiene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1

Table 5.11 - UKWIR Data

Table 5.11 - UKWIR Data				Made Ground													
Lab Sample Number				342560	342562	342565	342567	342568	347143	342569	342570	347145	347146	342573	342574	347149	347151
Sample Reference				BH3-ES1	BH4-ES1	BH5-ES2	BH6-ES2	BH7-ES1	CP1-ES2	CP2-ES1	CP2-ES4	CP3-ES1	CP3-ES2	CP4-ES2	CP4-ES4	CP5-ES3	CP6-ES1
Depth (m)				0.50	0.50	2.00	1.50	0.50	4.00	0.50	5.00	1.00	4.00	1.50	5.50	6.00	1.00
Date Sampled				04/10/2024	04/10/2024	04/10/2024	04/10/2024	04/10/2024	10/10/2024	03/10/2024	03/10/2024	09/10/2024	09/10/2024	02/10/2024	02/10/2024	07/10/2024	08/10/2024
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status														
2,4,6-Trichlorophenol	mg/kg	0.1	NONE	-	-	< 0.1	< 0.1	-	-	< 0.1	-	< 0.1	-	< 0.1	-	-	< 0.1
2,4,5-Trichlorophenol	mg/kg	0.2	NONE	-	-	< 0.2	< 0.2	-	-	< 0.2	-	< 0.2	-	< 0.2	-	-	< 0.2
2-Methylnaphthalene	mg/kg	0.1	NONE	-	-	0.3	0.1	-	-	0.1	-	0.4	-	0.3	-	-	0.1
2-Chloronaphthalene	mg/kg	0.1	MCERTS	-	-	< 0.1	< 0.1	-	-	< 0.1	-	< 0.1	-	< 0.1	-	-	< 0.1
Dimethylphthalate	mg/kg	0.1	MCERTS	-	-	< 0.1	< 0.1	-	-	< 0.1	-	< 0.1	-	< 0.1	-	-	< 0.1
2,6-Dinitrotoluene	mg/kg	0.1	NONE	-	-	< 0.1	< 0.1	-	-	< 0.1	-	< 0.1	-	< 0.1	-	-	< 0.1
2,4-Dinitrotoluene	mg/kg	0.2	NONE	-	-	< 0.2	< 0.2	-	-	< 0.2	-	< 0.2	-	< 0.2	-	-	< 0.2
Dibenzofuran	mg/kg	0.2	MCERTS	-	-	0.3	< 0.2	-	-	< 0.2	-	0.6	-	0.6	-	-	0.2
4-Chlorophenyl phenyl ether	mg/kg	0.3	MCERTS	-	-	< 0.3	< 0.3	-	-	< 0.3	-	< 0.3	-	< 0.3	-	-	< 0.3
Diethyl phthalate	mg/kg	0.2	MCERTS	-	-	< 0.2	< 0.2	-	-	< 0.2	-	< 0.2	-	< 0.2	-	-	< 0.2
4-Nitroaniline	mg/kg	0.2	NONE	-	-	< 0.2	< 0.2	-	-	< 0.2	-	< 0.2	-	< 0.2	-	-	< 0.2
Azobenzene	mg/kg	0.3	NONE	-	-	< 0.3	< 0.3	-	-	< 0.3	-	< 0.3	-	< 0.3	-	-	< 0.3
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	-	-	< 0.2	< 0.2	-	-	< 0.2	-	< 0.2	-	< 0.2	-	-	< 0.2
Hexachlorobenzene	mg/kg	0.3	MCERTS	-	-	< 0.30	< 0.30	-	-	< 0.30	-	< 0.30	-	< 0.30	-	-	< 0.30
Carbazole	mg/kg	0.3	MCERTS	-	-	< 0.3	< 0.3	-	-	< 0.3	-	0.4	-	< 0.3	-	-	< 0.3
Dibutyl phthalate	mg/kg	0.2	NONE	-	-	< 0.2	< 0.2	-	-	< 0.2	-	< 0.2	-	< 0.2	-	-	< 0.2
Anthraquinone	mg/kg	0.3	NONE	-	-	0.8	< 0.3	-	-	< 0.3	-	0.5	-	< 0.3	-	-	0.3
Butyl benzyl phthalate	mg/kg	0.3	NONE	-	-	< 0.3	< 0.3	-	-	< 0.3	-	< 0.3	-	< 0.3	-	-	< 0.3

Table 5.11 - UKWIR Data

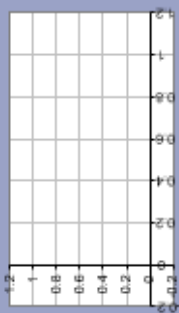
				Natural Strata		
Lab Sample Number				342557	342561	342563
Sample Reference				BH1-ES3	BH3-ES2	BH4-ES2
Depth (m)				1.50	2.00	1.50
Date Sampled				04/10/2024	04/10/2024	04/10/2024
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status			
2,4,6-Trichlorophenol	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1
2,4,5-Trichlorophenol	mg/kg	0.2	NONE	< 0.2	< 0.2	< 0.2
2-Methylnaphthalene	mg/kg	0.1	NONE	< 0.1	0.1	< 0.1
2-Chloronaphthalene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1
Dimethylphthalate	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1
2,6-Dinitrotoluene	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1
2,4-Dinitrotoluene	mg/kg	0.2	NONE	< 0.2	< 0.2	< 0.2
Dibenzofuran	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2
4-Chlorophenyl phenyl ether	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3
Diethyl phthalate	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2
4-Nitroaniline	mg/kg	0.2	NONE	< 0.2	< 0.2	< 0.2
Azobenzene	mg/kg	0.3	NONE	< 0.3	< 0.3	< 0.3
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2
Hexachlorobenzene	mg/kg	0.3	MCERTS	< 0.30	< 0.30	< 0.30
Carbazole	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3
Dibutyl phthalate	mg/kg	0.2	NONE	< 0.2	< 0.2	< 0.2
Anthraquinone	mg/kg	0.3	NONE	< 0.3	< 0.3	< 0.3
Butyl benzyl phthalate	mg/kg	0.3	NONE	< 0.3	< 0.3	< 0.3

Test Results

Client/client ref: Built Dev. Ltd Site ref: Church Lane, Moston Date: 6th Jan.2025
Project ref: GUK-0524-02 Data description: Made Ground Assessment User details: Groundsmiths

Dataset:	Lead	
Sample mean, $\bar{x}$	250.55	
Sample standard deviation, s	201.89	
Sample size, n	22	
Critical concentration, Cc	200	

Use Normal distribution to t_0	
Outliers present?	YES
Significance level	5%
Outliers removed?	0
Non-detects	0



Normality test

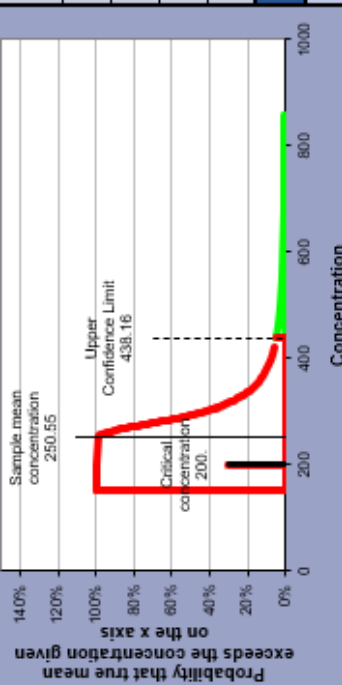
Significance level:	5%
Non-normal distribution	
Use:	Auto: Chebychev



Test scenario:

Planning: is true mean lower than critical concentration ($\mu < C_c$)?	
Null hypothesis: The true mean concentration is equal to or greater than the critical concentration: $\mu \geq C_c$	
Alternative hypothesis: The true mean concentration is less than the critical concentration: $\mu < C_c$	

Evidence against Null hypothesis:	0%
Base decision on:	evidence level
Evidence level required:	95%
Balance of probability?	N/A
Reject Null Hypothesis?	No
$\mu \geq C_c$	

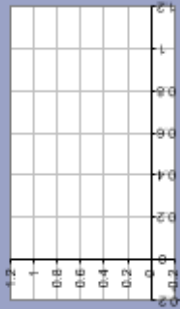


Test Results

Client/client ref: Built Dev. Ltd Site ref: Church Lane, Moston Date: 6th Jan.2025
Project ref: GUK-0524-02 Data description: Made Ground Assessment User details: Groundsmiths

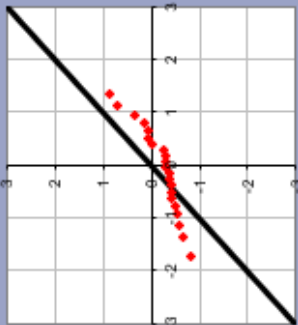
Dataset: Arsenic	
Sample mean, $\bar{x}$	21.555
Sample standard deviation, s	17.835
Sample size, n	22
Critical concentration, Cc	37

Use Normal distribution to t_1	
Outliers present?	YES
Significance level	5%
Outliers removed?	0
Non-detects	0



Normality test

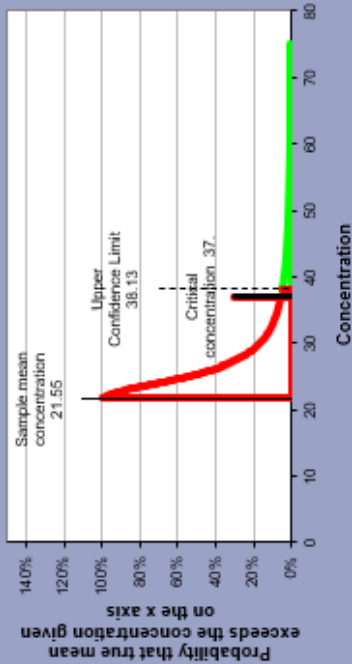
Significance level:	5%
Non-normal distribution	
Use:	Auto: Chebychev



Test scenario:

Planning: is true mean lower than critical concentration ($\mu < C_c$)?	
Null hypothesis: The true mean concentration is equal to or greater than the critical concentration: $\mu \geq C_c$	
Alternative hypothesis: The true mean concentration is less than the critical concentration: $\mu < C_c$	

Evidence against Null hypothesis:	94%
Base decision on:	evidence level
Evidence level required:	95%
Balance of probability?	N/A
Reject Null Hypothesis?	No
Not enough evidence	

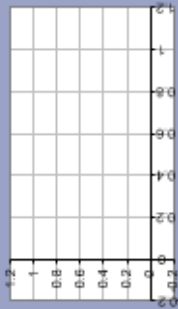


Test Results

Client/client ref: Built Dev. Ltd Site ref: Church Lane, Moston Date: 6th Jan. 2025
Project ref: GUK-0524-02 Data description: Made Ground Assessment User details: Groundsmiths

Dataset:	Naphthalene	
Sample mean, $\bar{x}$	2.9868	
Sample standard deviation, s	6.7864	
Sample size, n	22	
Critical concentration, Cc	2.3	

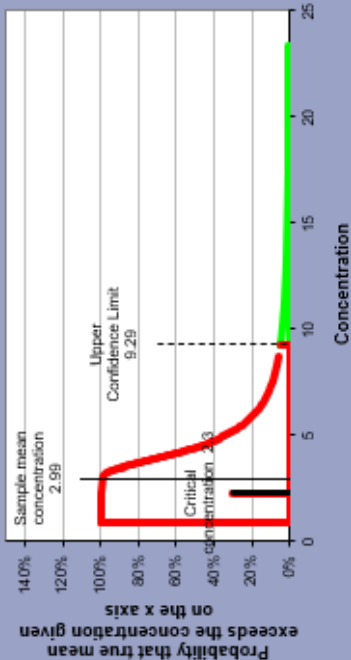
Use Normal distribution to t_1	
Outliers present?	YES
Significance level	5%
Outliers removed?	0
Non-detects	0



Normality test	
Significance level:	5%
Non-normal distribution	
Use:	Auto: Chebychev



Test scenario:	Planning: is true mean lower than critical concentration ($\mu < C_c$)?
Null hypothesis:	The true mean concentration is equal to or greater than the critical concentration: $\mu \geq C_c$
Alternative hypothesis:	The true mean concentration is less than the critical concentration: $\mu < C_c$
Evidence against Null hypothesis:	
Base decision on:	evidence level
Evidence level required:	95%
Balance of probability?	N/A
Reject Null Hypothesis?	No
	$\mu \geq C_c$

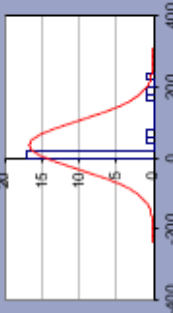


Test Results

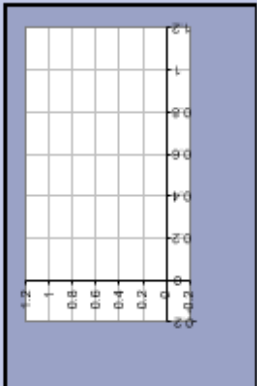
Client/client ref: Built Dev. Ltd Site ref: Church Lane, Moston Date: 6th Jan. 2025
Project ref: GUK-0524-02 Data description: Made Ground Assessment User details: Groundsmiths

Dataset:	Phenanthrene	
Sample mean, $\bar{x}$	36.716	
Sample standard deviation, s	67.938	
Sample size, n	22	
Critical concentration, Cc	220	

Use Normal distribution to t_1



Outliers & non-detects	
Outliers present?	YES
Significance level	5% ▼
Outliers removed?	0
Non-detects	0

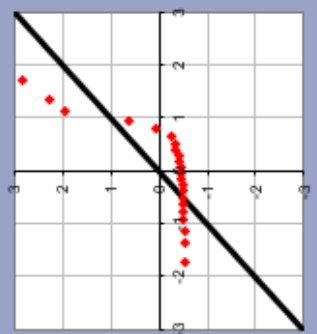


Normality test

Significance level: 5% ▼

Non-normal distribution

Use: Auto: Chebychev ▼



Test scenario:

Planning: is true mean lower than critical concentration ($\mu < C_c$)?

Null hypothesis: The true mean concentration is equal to or greater than the critical concentration: $\mu \geq C_c$

Alternative hypothesis: The true mean concentration is less than the critical concentration: $\mu < C_c$

Evidence against Null hypothesis:

Base decision on: 99%

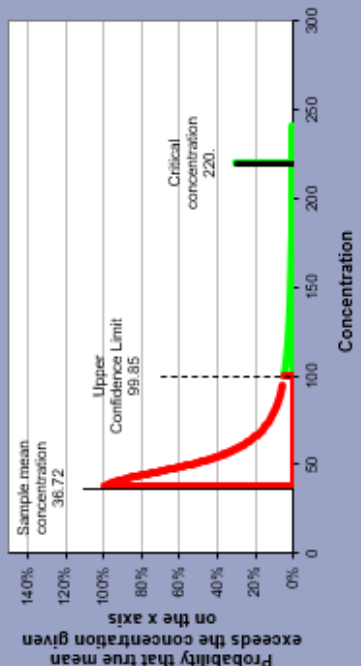
evidence level

Evidence level required: 95%

Balance of probability? N/A

Reject Null Hypothesis? Yes

$\mu < C_c$ (re this dataset)

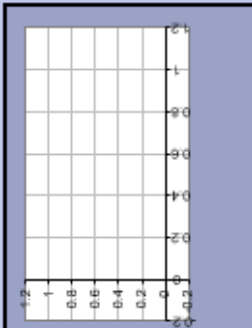


Test Results

Client/client ref: Built Dev. Ltd Site ref: Church Lane, Moston Date: 6th Jan.2025
Project ref: GUK-0524-02 Data description: Made Ground Assessment User details: Groundsmiths

Dataset:	Benzo(a)anthracene	
Sample mean, $\bar{X}$	17.942	
Sample standard deviation, s	30.081	
Sample size, n	22	
Critical concentration, Cc	11	

Use Normal distribution to t_1		Outliers & non-detects
		Outliers present?
		Significance level
		Outliers removed?
		Non-detects



Normality test

Significance level:	5%
Non-normal distribution	
Use:	Auto: Chebychev



Test scenario:

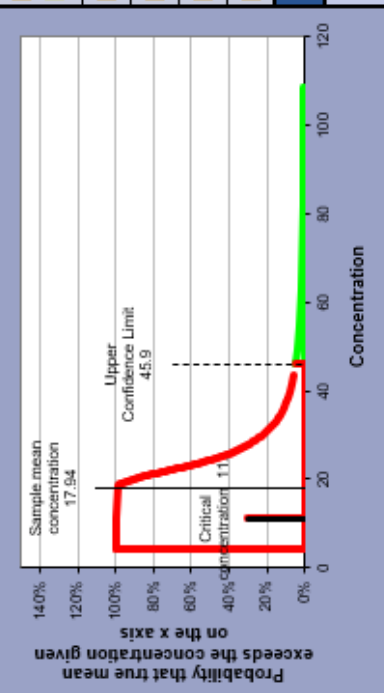
Planning: is true mean lower than critical concentration ($\mu < C_c$)?

Null hypothesis:

The true mean concentration is equal to or greater than the critical concentration: $\mu \geq C_c$

Alternative hypothesis:

The true mean concentration is less than the critical concentration: $\mu < C_c$



Evidence against Null hypothesis:

Base decision on:	evidence level	0%
Evidence level required:		95%
Balance of probability?		N/A
Reject Null Hypothesis?		No

$\mu \geq C_c$

Project: Church Lane, Moston

Contaminant: Made Ground – Benzo(a)anthracene

Project No: GUK-0524-02

Date: Jan. 2025

Checked: AJS

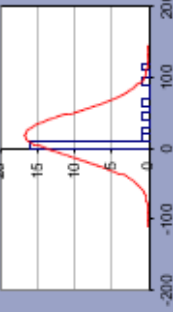
Client: Built Developments Limited

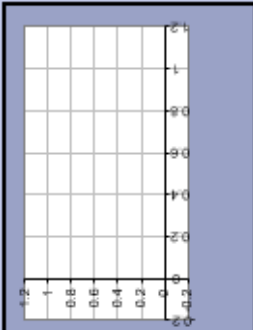
GROUNDSMITHS
GEOTECHNICAL ENGINEERS

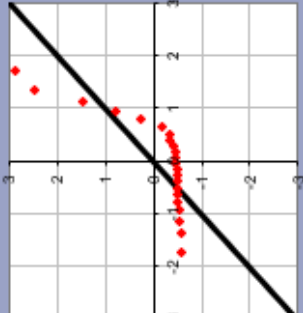
Test Results

Client/client ref: Built Dev. Ltd Site ref: Church Lane, Moston Date: 6th Jan. 2025
Project ref: GUK-0524-02 Data description: Made Ground Assessment User details: Groundsmiths

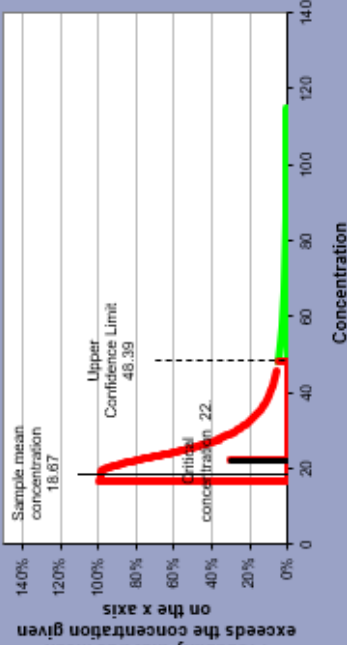
Dataset:	Chrysene	
Sample mean, $\bar{x}$	18.666	
Sample standard deviation, s	31.98	
Sample size, n	22	
Critical concentration, Cc	22	

Use Normal distribution to t_1	
	
Outliers & non-detects	
Outliers present?	YES
Significance level	5%
Outliers removed?	0
Non-detects	0



Normality test	
Significance level:	5%
Non-normal distribution	
Use:	Auto: Chebychev
	

Test scenario:		Planning: is true mean lower than critical concentration ($\mu < C_c$)?
Null hypothesis:		The true mean concentration is equal to or greater than the critical concentration: $\mu \geq C_c$
Alternative hypothesis:		The true mean concentration is less than the critical concentration: $\mu < C_c$
Evidence against Null hypothesis:		19%
Base decision on:		evidence level
Evidence level required:		95%
Balance of probability?		N/A
Reject Null Hypothesis?		No
		$\mu \geq C_c$



Project: Church Lane, Moston

Date: Jan. 2025

Contaminant: Made Ground – Chrysene

Checked: AJS

Project No: GUK-0524-02

Client: Built Developments Limited

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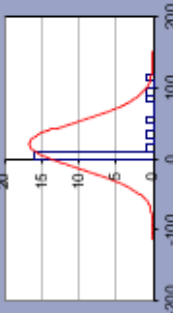
Test Results

Client/client ref: Built Dev. Ltd Site ref: Church Lane, Moston Date: 6th Jan.2025

Project ref: GUK-0524-02 Data description: Made Ground Assessment User details: Groundsmiths

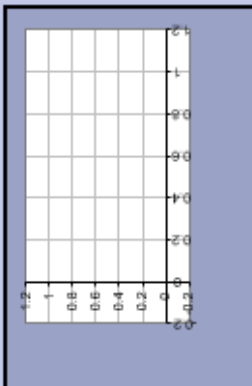
Dataset:	Benzo(b)fluoranthene
Sample mean, $\bar{x}$	20.19
Sample standard deviation, s	33.058
Sample size, n	22
Critical concentration, Cc	3.3

Use Normal distribution to t_1



Outliers & non-detects

Outliers present?	YES
Significance level	5%
Outliers removed?	0
Non-detects	0

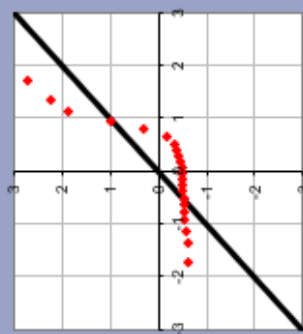


Normality test

Significance level: 5%

Non-normal distribution

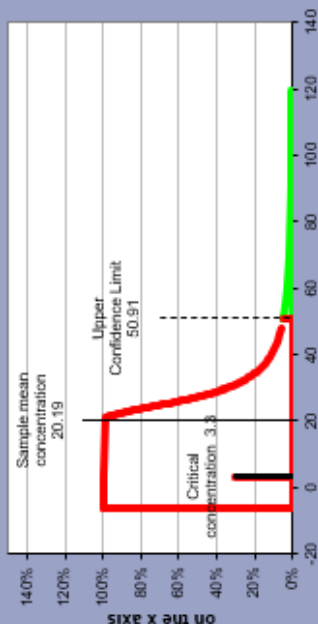
Use: Auto: Chebychev



Test scenario: Planning: is true mean lower than critical concentration ($\mu < C_c$)?

Null hypothesis: The true mean concentration is equal to or greater than the critical concentration: $\mu \geq C_c$

Alternative hypothesis: The true mean concentration is less than the critical concentration: $\mu < C_c$



Evidence against Null hypothesis:

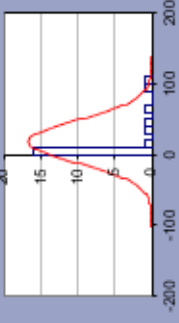
Base decision on:	evidence level	0%
Evidence level required:		95%
Balance of probability?		N/A
Reject Null Hypothesis?		No

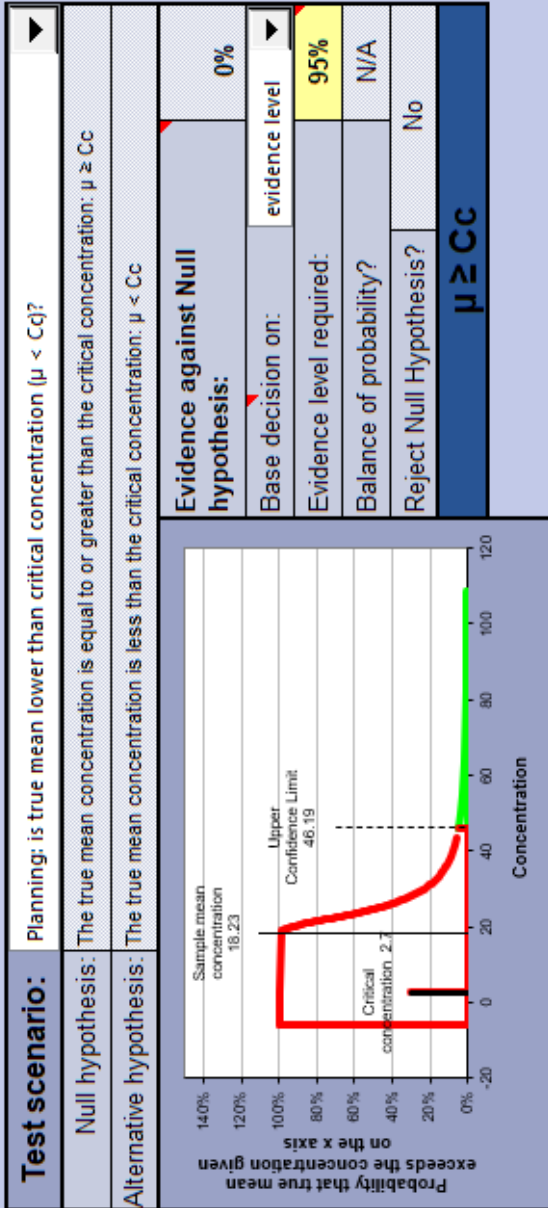
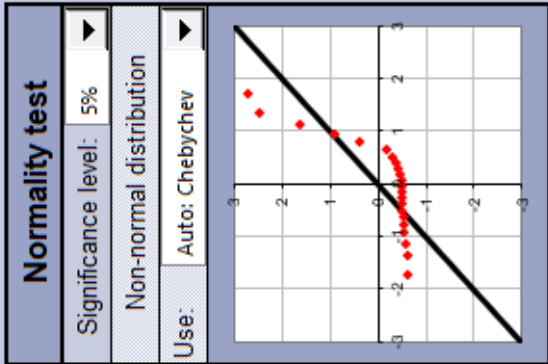
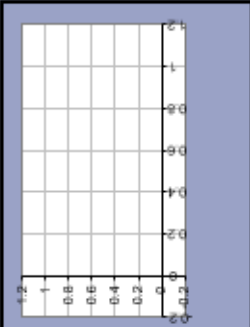
$\mu \geq C_c$

Test Results

Client/client ref: Built Dev. Ltd Site ref: Church Lane, Moston Date: 6th Jan. 2025
Project ref: GUK-0524-02 Data description: Made Ground Assessment User details: Groundsmiths

Dataset:	Benzo(a)pyrene
Sample mean, $\bar{x}$	18.23
Sample standard deviation, s	30.085
Sample size, n	22
Critical concentration, Cc	2.7

Use Normal distribution to t_i	Outliers & non-detects
	Outliers present? YES
	Significance level 5%
	Outliers removed? 0
	Non-detects 0



Project: Church Lane, Moston

Date: Jan. 2025

Contaminant: Made Ground – Benzo(a)pyrene

Checked: AJS

Project No: GUK-0524-02

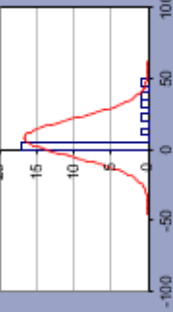
Client: Built Developments Limited

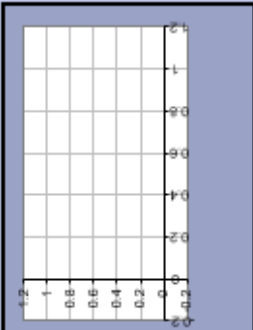
GROUNDSMITHS
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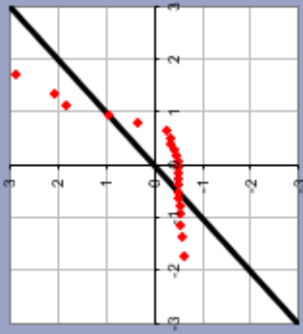
Test Results

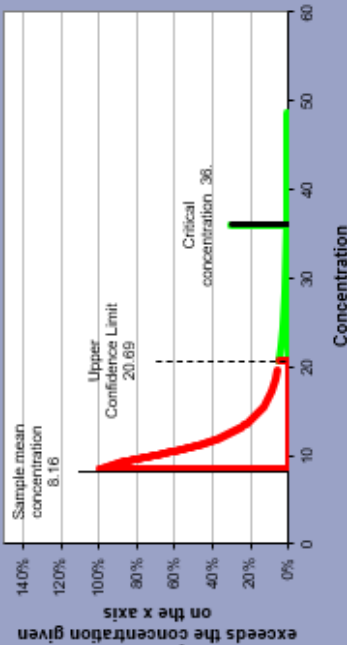
Client/client ref: Built Dev. Ltd Site ref: Church Lane, Moston Date: 6th Jan. 2025
Project ref: GUK-0524-02 Data description: Made Ground Assessment User details: Groundsmiths

Dataset:	Indeno(123cd)pyrene
Sample mean, $\bar{x}$	8.16
Sample standard deviation, s	13.48
Sample size, n	22
Critical concentration, Cc	36

Use Normal distribution to t_1	Outliers & non-detects
	Outliers present? YES
	Significance level 5%
	Outliers removed? 0
	Non-detects 0



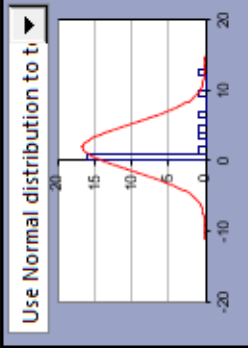
Normality test	
Significance level:	5%
Non-normal distribution	
Use:	Auto: Chebychev
	

Test scenario:	Planning: is true mean lower than critical concentration ($\mu < C_d$)?	▼
Null hypothesis:	The true mean concentration is equal to or greater than the critical concentration: $\mu \geq C_c$	
Alternative hypothesis:	The true mean concentration is less than the critical concentration: $\mu < C_c$	
		
Evidence against Null hypothesis:		99%
Base decision on:	evidence level	▼
Evidence level required:		95%
Balance of probability?		N/A
Reject Null Hypothesis?	Yes	
$\mu < C_c$ (re this dataset)		

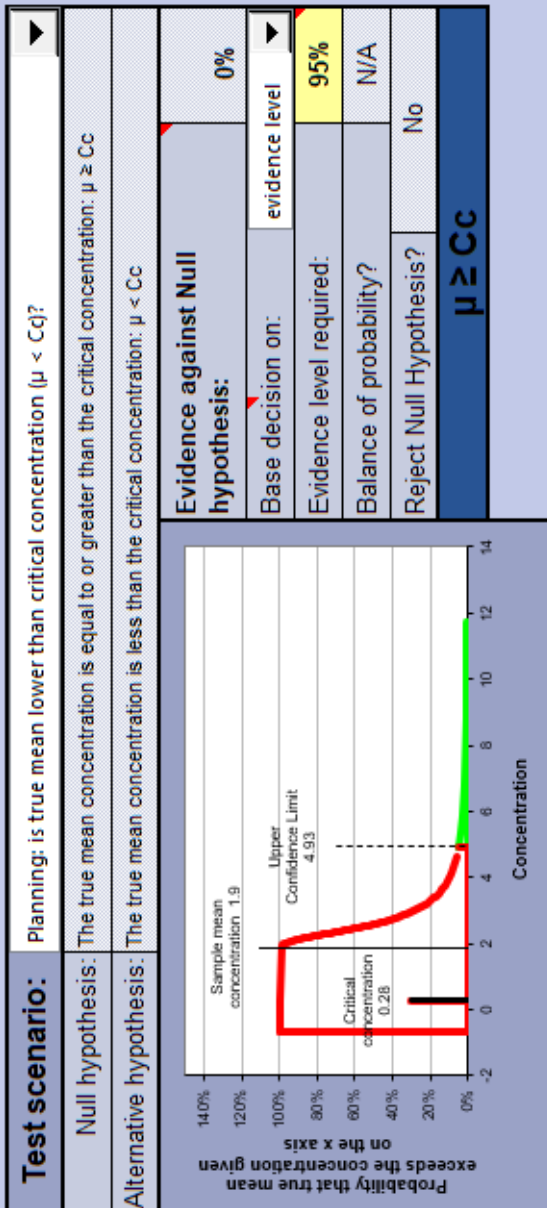
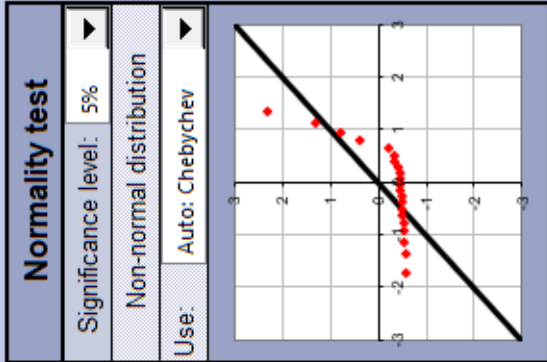
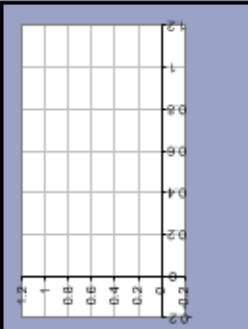
Test Results

Client/client ref: Built Dev. Ltd Site ref: Church Lane, Moston Date: 6th Jan.2025
Project ref: GUK-0524-02 Data description: Made Ground Assessment User details: Groundsmiths

Dataset:	Dibenz(ah)anthracene
Sample mean, $\bar{x}$	1.8977
Sample standard deviation, s	3.2614
Sample size, n	22
Critical concentration, Cc	0.28



Outliers & non-detects	
Outliers present?	YES
Significance level	5%
Outliers removed?	0
Non-detects	0



Project: Church Lane, Moston

Date: Jan. 2025

Contaminant: Made Ground –
Dibenz(ah)anthracene

Checked: AJS

Project No: GUK-0524-02

Client: Built Developments
Limited

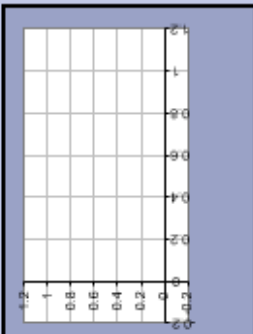
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Test Results

Client/client ref: Built Dev. Ltd Site ref: Church Lane, Moston Date: 6th Jan.2025
Project ref: GUK-0524-02 Data description: Natural Strata Assessment User details: Groundsmiths

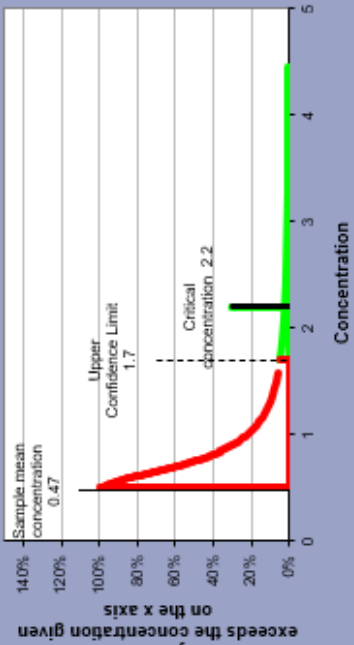
Dataset:	Benzo(a)pyrene
Sample mean, $\bar{x}$	0.473
Sample standard deviation, s	0.8909
Sample size, n	10
Critical concentration, Cc	2.2

Use Normal distribution to t_0	
	
Outliers & non-detects	
Outliers present?	YES
Significance level	5%
Outliers removed?	0
Non-detects	0



Normality test	
Significance level:	5%
Non-normal distribution	
Use:	Auto: Chebychev
	

Test scenario:		Planning: is true mean lower than critical concentration ($\mu < C_c$)?
Null hypothesis:		The true mean concentration is equal to or greater than the critical concentration: $\mu \geq C_c$
Alternative hypothesis:		The true mean concentration is less than the critical concentration: $\mu < C_c$
Evidence against Null hypothesis:		97%
Base decision on:		evidence level
Evidence level required:		95%
Balance of probability?		N/A
Reject Null Hypothesis?		Yes
		$\mu < C_c$ (re this dataset)



Project: Church Lane, Moston

Date: Jan. 2025

Contaminant: Natural Strata – Benzo(a)pyrene

Checked: AJS

Project No: GUK-0524-02

Client: Built Developments Limited

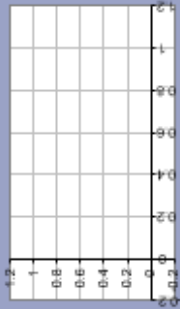
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Test Results

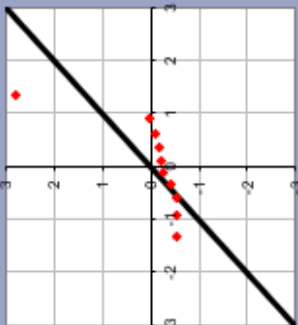
Client/client ref: Built Dev. Ltd Site ref: Church Lane, Moston Date: 6th Jan. 2025
Project ref: GUK-0524-02 Data description: Natural Strata Assessment User details: Groundsmiths

Dataset:	Naphthalene	
Sample mean, $\bar{X}$	0.237	
Sample standard deviation, s	0.3454	
Sample size, n	10	
Critical concentration, Cc	1	

Use Normal distribution to t_u	
Outliers present?	YES
Significance level	5%
Outliers removed?	0
Non-detects	0



Normality test	
Significance level:	5%
Non-normal distribution	
Use:	Auto: Chebychev



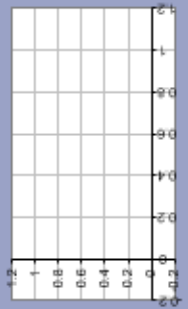
Test scenario:	Planning: is true mean lower than critical concentration ($\mu < C_c$)?
Null hypothesis:	The true mean concentration is equal to or greater than the critical concentration: $\mu \geq C_c$
Alternative hypothesis:	The true mean concentration is less than the critical concentration: $\mu < C_c$
Evidence against Null hypothesis:	98%
Base decision on:	evidence level
Evidence level required:	95%
Balance of probability?	N/A
Reject Null Hypothesis?	Yes
$\mu < C_c$ (re this dataset)	

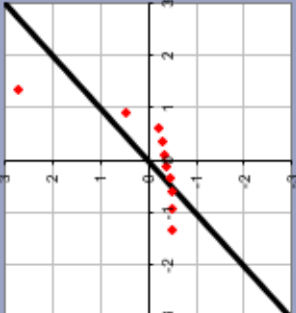
Test Results

Client/client ref: Built Dev. Ltd Site ref: Church Lane, Moston Date: 6th Jan.2025
Project ref: GUK-0524-02 Data description: Natural Strata Assessment User details: Groundsmiths

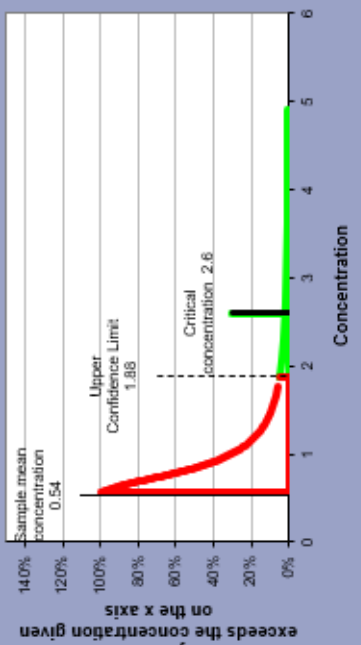
Dataset:	Benzo(b)fluoranthene
Sample mean, $\bar{x}$	0.535
Sample standard deviation, s	0.9783
Sample size, n	10
Critical concentration, Cc	2.6

Use Normal distribution to t_i	Outliers & non-detects
	Outliers present? YES
	Significance level 5%
	Outliers removed? 0
	Non-detects 0



Normality test	
Significance level: 5%	
Non-normal distribution	
Use: Auto: Chebychev	

Test scenario:	Planning: is true mean lower than critical concentration ($\mu < C_c$)
Null hypothesis:	The true mean concentration is equal to or greater than the critical concentration: $\mu \geq C_c$
Alternative hypothesis:	The true mean concentration is less than the critical concentration: $\mu < C_c$
Evidence against Null hypothesis:	98%
Base decision on:	evidence level
Evidence level required:	95%
Balance of probability?	N/A
Reject Null Hypothesis?	Yes
$\mu < C_c$ (re this dataset)	



Sample mean concentration 0.54

Upper Confidence Limit 1.86

Critical concentration 2.6

Concentration

Project: Church Lane, Moston

Date: Jan. 2025

Contaminant: Natural Strata –
Benzo(b)fluoranthene

Checked: AJS

Project No: GUK-0524-02

Client: Built Developments
Limited

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