



4041



Environmental Science

Analytical Report Number: 15-75496

Project / Site name: Moncton Phase I

Lab Sample Number	466017	466018	466019	466020	466021	466022
Sample Reference	TP101	TP103	TP104	TP105	TP106	TP106
Sample Number	ES+D	ES+D+B	ES+D+B	ES+D	ES+D+B	ES+D+B
Depth (m)	1.00	1.00	1.00	1.50	1.00	1.50
Date Sampled	Deviating	Deviating	Deviating	Deviating	Deviating	Deviating
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status			
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1
Moisture Content	%	N/A	NONE	13	15	20
Total mass of sample received	kg	0.001	NONE	0.92	1.1	1.2

Asbestos in Soil Screen / Identification Name	Type	N/A	ISO 17025	-	-	-	-	-	-
Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected	-

General Inorganics

pH	pH Units	N/A	MCERTS	6.1	7.7	8.0	7.4	5.8	4.6
Total Sulphate as SO ₄	mg/kg	50	MCERTS	2400	1600	10000	3700	7400	1600
Water Soluble Sulphate (Soil Equivalent)	g/l	0.0025	MCERTS	1.0	0.96	1.5	1.3	1.2	0.99
Water Soluble SO ₄ (BRE SD 2:1 Leach Equivalent)	g/l	0.00125	MCERTS	0.52	0.48	0.74	0.63	0.58	0.49
Water Soluble Chloride (2:1)	mg/kg	1	MCERTS	170	94	549	47	300	200
Total Sulphur	mg/kg	50	NONE	1200	2200	4100	1800	2600	670
Ammonium as NH ₄	mg/kg	0.5	MCERTS	I/S	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Water Soluble Nitrate (2:1) as N	mg/kg	2	NONE	5.0	35	< 2.0	< 2.0	< 2.0	3.1
Calorific Value (Subcontracted)	MJ/Kg	0.01	NONE	6.04	15.9	18.4	6.89	0.414	-

Phenols by GC-MS

Phenol	mg/kg	0.2	NONE	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	-
2,4,5-Trichlorophenol	mg/kg	0.2	NONE	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	-
2,4,6-Trichlorophenol	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-
2,4-Dichlorophenol	mg/kg	0.3	NONE	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	-
2,4-Dimethylphenol	mg/kg	0.3	NONE	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	-
2-Chlorophenol	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-
2-Methylphenol	mg/kg	0.3	NONE	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	-
2-Nitrophenol	mg/kg	0.3	NONE	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	-
4-Chloro-3-methylphenol	mg/kg	0.1	ISO 17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-
4-Methylphenol	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	-

Total Phenols

Total Phenols (GC-MS)	mg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	-
-----------------------	-------	---	------	-------	-------	-------	-------	-------	---

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	6.6	3.2	6.2	< 0.05	-
Acenaphthylene	mg/kg	0.1	MCERTS	< 0.10	1.1	< 0.10	< 0.10	< 0.10	-
Acenaphthene	mg/kg	0.1	MCERTS	< 0.10	1.1	0.61	< 0.10	< 0.10	-
Fluorene	mg/kg	0.1	MCERTS	< 0.10	1.4	< 0.10	< 0.10	< 0.10	-
Phenanthrene	mg/kg	0.1	MCERTS	1.3	8.0	2.7	3.0	< 0.10	-
Anthracene	mg/kg	0.1	MCERTS	0.17	2.5	0.53	0.18	< 0.10	-
Fluoranthene	mg/kg	0.1	MCERTS	0.50	9.7	1.6	0.61	< 0.10	-
Pyrene	mg/kg	0.1	MCERTS	0.43	9.3	1.5	0.61	< 0.10	-
Benzo(a)anthracene	mg/kg	0.1	MCERTS	0.27	6.4	1.2	0.36	< 0.10	-
Chrysene	mg/kg	0.05	MCERTS	0.29	6.4	1.4	0.43	< 0.05	-
Benzo(b)fluoranthene	mg/kg	0.1	MCERTS	< 0.10	5.3	< 0.10	< 0.10	< 0.10	-
Benzo(k)fluoranthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	-
Benzo(a)pyrene	mg/kg	0.1	MCERTS	< 0.10	5.9	1.2	0.18	< 0.10	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	MCERTS	< 0.10	3.1	0.65	< 0.10	< 0.10	-
Dibenz(a,h)anthracene	mg/kg	0.1	MCERTS	< 0.10	0.96	0.23	< 0.10	< 0.10	-
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	4.0	0.89	< 0.05	< 0.05	-

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	1.6	MCERTS	2.92	71.8	15.6	11.6	< 1.60	-
-----------------------------	-------	-----	--------	------	------	------	------	--------	---

Iss No 15-75496-1

Analytical Report Number: 15-75496
Project / Site name: Moncton Phase I

Lab Sample Number				466017	466018	466019	466020	466021	466022
Sample Reference				TP101	TP103	TP104	TP105	TP106	TP106
Sample Number				ES+D	ES+D+B	ES+D+B	ES+D	ES+D+B	ES+D+B
Depth (m)				1.00	1.00	1.00	1.50	1.00	1.50
Date Sampled				Deviating	Deviating	Deviating	Deviating	Deviating	Deviating
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status						
Heavy Metals / Metalloids									
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	32	22	9.0	9.5	16	-
Boron (water soluble)	mg/kg	0.2	MCERTS	0.7	0.6	1.2	1.0	0.5	-
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	-
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	13	11	14	16	33	-
Copper (aqua regia extractable)	mg/kg	1	MCERTS	46	74	40	43	27	-
Lead (aqua regia extractable)	mg/kg	1	MCERTS	71	63	45	17	13	-
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	0.4	< 0.3	< 0.3	< 0.3	< 0.3	-
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	24	31	19	33	24	-
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	1.1	1.2	< 1.0	< 1.0	-
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	33	65	130	110	33	-
Magnesium (water soluble)	mg/kg	5	NONE	-	-	-	-	-	-
Monoaromatics									
Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	-
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	-
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	-
p & m-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	-
o-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	-
Petroleum Hydrocarbons									
TPH-CWG - Aliphatic > EC5 - EC6	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-
TPH-CWG - Aliphatic > EC6 - EC8	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-
TPH-CWG - Aliphatic > EC8 - EC10	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-
TPH-CWG - Aliphatic > EC10 - EC12	mg/kg	1	MCERTS	< 1.0	12	< 1.0	< 1.0	< 1.0	-
TPH-CWG - Aliphatic > EC12 - EC16	mg/kg	2	MCERTS	< 2.0	28	< 2.0	< 2.0	< 2.0	-
TPH-CWG - Aliphatic > EC16 - EC21	mg/kg	8	MCERTS	< 8.0	50	11	< 8.0	< 8.0	-
TPH-CWG - Aliphatic > EC21 - EC35	mg/kg	8	MCERTS	< 8.0	310	43	< 8.0	< 8.0	-
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10	400	53	< 10	< 10	-
TPH-CWG - Aromatic > EC5 - EC7	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-
TPH-CWG - Aromatic > EC7 - EC8	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-
TPH-CWG - Aromatic > EC8 - EC10	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-
TPH-CWG - Aromatic > EC10 - EC12	mg/kg	1	MCERTS	< 1.0	8.6	6.6	15	< 1.0	-
TPH-CWG - Aromatic > EC12 - EC16	mg/kg	2	MCERTS	< 2.0	53	8.6	18	< 2.0	-
TPH-CWG - Aromatic > EC16 - EC21	mg/kg	10	MCERTS	< 10	160	< 10	17	< 10	-
TPH-CWG - Aromatic > EC21 - EC35	mg/kg	10	MCERTS	< 10	940	19	< 10	< 10	-
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10	1200	34	50	< 10	-

Analytical Report Number: 15-75496
Project / Site name: Moncton Phase I

Lab Sample Number	466017	466018	466019	466020	466021	466022
Sample Reference	TP101	TP103	TP104	TP105	TP106	TP106
Sample Number	ES+D	ES+D+B	ES+D+B	ES+D	ES+D+B	ES+D+B
Depth (m)	1.00	1.00	1.00	1.50	1.00	1.50
Date Sampled	Deviating	Deviating	Deviating	Deviating	Deviating	Deviating
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status			
VOCs						
Chloromethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0
Chloroethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0
Bromomethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0
Vinyl Chloride	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0
Trichlorofluoromethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
2,2-Dichloropropane	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0
Trichloromethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
1,1,1-Trichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
1,1-Dichloropropene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0
Trans-1,2-dichloroethene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0
Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
Tetrachloromethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
Trichloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
Dibromomethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
Bromodichloromethane	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
1,3-Dichloropropane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0
Dibromochloromethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0
Tetrachloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
1,2-Dibromoethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0
Chlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
1,1,1,2-Tetrachloroethane	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
p & m-Xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
Styrene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
Tribromomethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
o-Xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
Isopropylbenzene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0
Bromobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
n-Propylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0
2-Chlorotoluene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0
4-Chlorotoluene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0
tert-Butylbenzene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0
sec-Butylbenzene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0
p-Isopropyltoluene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
Butylbenzene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
Hexachlorobutadiene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0
1,2,3-Trichlorobenzene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0



4041



Environmental Science

Analytical Report Number: 15-75496

Project / Site name: Moncton Phase I

Lab Sample Number	466017	466018	466019	466020	466021	466022
Sample Reference	TP101	TP103	TP104	TP105	TP106	TP106
Sample Number	ES+D	ES+D+B	ES+D+B	ES+D	ES+D+B	ES+D+B
Depth (m)	1.00	1.00	1.00	1.50	1.00	1.50
Date Sampled	Deviating	Deviating	Deviating	Deviating	Deviating	Deviating
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status			
SVOCs						
Aniline	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1
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	MCERTS	< 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	MCERTS	< 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
Naphthalene	mg/kg	0.05	MCERTS	< 0.05	6.6	3.2
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	MCERTS	< 0.1	< 0.1	< 0.1
2,4,5-Trichlorophenol	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2
2-Methylnaphthalene	mg/kg	0.1	NONE	0.6	4.4	2.4
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	MCERTS	< 0.1	< 0.1	< 0.1
Acenaphthylene	mg/kg	0.1	MCERTS	< 0.10	1.1	< 0.10
Acenaphthene	mg/kg	0.1	MCERTS	< 0.10	1.1	< 0.10
2,4-Dinitrotoluene	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2
Dibenzofuran	mg/kg	0.2	MCERTS	0.6	3.4	1.7
4-Chlorophenyl phenyl ether	mg/kg	0.3	ISO 17025	< 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	MCERTS	< 0.2	< 0.2	< 0.2
Fluorene	mg/kg	0.1	MCERTS	< 0.10	1.4	< 0.10
Azobenzene	mg/kg	0.3	MCERTS	< 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	< 0.3	< 0.3	< 0.3
Phenanthrene	mg/kg	0.1	MCERTS	1.3	8.0	2.7
Anthracene	mg/kg	0.1	MCERTS	0.17	2.5	0.53
Carbazole	mg/kg	0.3	MCERTS	< 0.3	0.9	< 0.3
Dibutyl phthalate	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2
Anthracenone	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3
Fluoranthene	mg/kg	0.1	MCERTS	0.50	9.7	1.6
Pyrene	mg/kg	0.1	MCERTS	0.43	9.3	1.5
Butyl benzyl phthalate	mg/kg	0.3	ISO 17025	< 0.3	< 0.3	< 0.3
Benzo(a)anthracene	mg/kg	0.1	MCERTS	0.27	6.4	1.2
Chrysene	mg/kg	0.05	MCERTS	0.29	6.4	1.4
Benzo(b)fluoranthene	mg/kg	0.1	MCERTS	< 0.10	5.3	< 0.10
Benzo(k)fluoranthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10
Benzo(a)pyrene	mg/kg	0.1	MCERTS	< 0.10	5.9	1.2
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	MCERTS	< 0.10	3.1	0.65
Dibenz(a,h)anthracene	mg/kg	0.1	MCERTS	< 0.10	0.96	0.23
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	4.0	0.89

I/S - Insufficient sample

Iss No 15-75496-1

This certificate should not be reproduced, except in full, without the express permission of the laboratory.
The results included within the report are representative of the samples submitted for analysis.

Page 5 of 20

Analytical Report Number: 15-75496

Project / Site name: Moncton Phase I

Lab Sample Number	466023	466024	466025	466026	466027	466028
Sample Reference	TP107	TP108	TP109	TP109	WS7	WS9
Sample Number	ES+D+B	ES+D+B	ES+D	ES+D	D	ES+D
Depth (m)	0.50	0.30	2.50	3.50	2.00	3.00
Date Sampled	Deviating	Deviating	Deviating	Deviating	Deviating	Deviating
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	units	Limit of detection	Accreditation Status			
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1
Moisture Content	%	N/A	NONE	7.9	8.9	5.8
Total mass of sample received	kg	0.001	NONE	1.2	0.98	0.84
				2.0	0.68	1.4

Asbestos in Soil Screen / Identification Name	Type	N/A	ISO 17025	Chrysotile- Loose fibres	Chrysotile- Loose fibres	-	-	-	-
Asbestos in Soil	Type	N/A	ISO 17025	Detected	Detected	Not-detected	-	-	-

General Inorganics

pH	pH Units	N/A	MCERTS	6.5	6.5	7.1	6.4	6.7	6.1
Total Sulphate as SO ₄	mg/kg	50	MCERTS	4800	20000	2500	880	550	6300
Water Soluble Sulphate (Soil Equivalent)	g/l	0.0025	MCERTS	4.1	3.7	0.81	0.35	0.20	0.63
Water Soluble SO ₄ (BRE SD 2:1 Leach Equivalent)	g/l	0.00125	MCERTS	2.0	1.9	0.40	0.17	0.098	0.32
Water Soluble Chloride (2:1)	mg/kg	1	MCERTS	370	120	44	29	130	410
Total Sulphur	mg/kg	50	NONE	2400	13000	1200	300	240	2300
Ammonium as NH ₄	mg/kg	0.5	MCERTS	< 0.5	< 0.5	< 0.5	I/S	I/S	< 0.5
Water Soluble Nitrate (2:1) as N	mg/kg	2	NONE	5.2	2.0	< 2.0	I/S	I/S	< 2.0
Calorific Value (Subcontracted)	MJ/Kg	0.01	NONE	2.63	6.58	4.09	-	-	-

Phenols by GC-MS

Phenol	mg/kg	0.2	NONE	< 0.2	< 0.2	< 0.2	-	-	-
2,4,5-Trichlorophenol	mg/kg	0.2	NONE	< 0.2	< 0.2	< 0.2	-	-	-
2,4,6-Trichlorophenol	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1	-	-	-
2,4-Dichlorophenol	mg/kg	0.3	NONE	< 0.3	< 0.3	< 0.3	-	-	-
2,4-Dimethylphenol	mg/kg	0.3	NONE	< 0.3	< 0.3	< 0.3	-	-	-
2-Chlorophenol	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1	-	-	-
2-Methylphenol	mg/kg	0.3	NONE	< 0.3	< 0.3	< 0.3	-	-	-
2-Nitrophenol	mg/kg	0.3	NONE	< 0.3	< 0.3	< 0.3	-	-	-
4-Chloro-3-methylphenol	mg/kg	0.1	ISO 17025	< 0.1	< 0.1	< 0.1	-	-	-
4-Methylphenol	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	-	-	-

Total Phenols

Total Phenols (GC-MS)	mg/kg	1	NONE	< 1.0	< 1.0	< 1.0	-	-	-
-----------------------	-------	---	------	-------	-------	-------	---	---	---

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	1.2	1.8	3.1	-	-	-
Acenaphthylene	mg/kg	0.1	MCERTS	< 0.10	0.36	< 0.10	-	-	-
Acenaphthene	mg/kg	0.1	MCERTS	0.41	< 0.10	< 0.10	-	-	-
Fluorene	mg/kg	0.1	MCERTS	0.66	< 0.10	< 0.10	-	-	-
Phenanthrene	mg/kg	0.1	MCERTS	5.0	3.1	1.1	-	-	-
Anthracene	mg/kg	0.1	MCERTS	0.83	0.66	< 0.10	-	-	-
Fluoranthene	mg/kg	0.1	MCERTS	3.7	4.8	< 0.10	-	-	-
Pyrene	mg/kg	0.1	MCERTS	2.7	4.3	< 0.10	-	-	-
Benzo(a)anthracene	mg/kg	0.1	MCERTS	1.3	2.9	< 0.10	-	-	-
Chrysene	mg/kg	0.05	MCERTS	1.3	2.9	< 0.05	-	-	-
Benzo(b)fluoranthene	mg/kg	0.1	MCERTS	< 0.10	2.4	< 0.10	-	-	-
Benzo(k)fluoranthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	-	-	-
Benzo(a)pyrene	mg/kg	0.1	MCERTS	0.87	2.6	< 0.10	-	-	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	MCERTS	0.42	1.8	< 0.10	-	-	-
Dibenz(a,h)anthracene	mg/kg	0.1	MCERTS	0.13	0.45	< 0.10	-	-	-
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	0.49	2.0	< 0.05	-	-	-

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	1.6	MCERTS	18.8	30.1	4.24	-	-	-
-----------------------------	-------	-----	--------	------	------	------	---	---	---

Analytical Report Number: 15-75496

Project / Site name: Moncton Phase I

Lab Sample Number	466023	466024	466025	466026	466027	466028
Sample Reference	TP107	TP108	TP109	TP109	WS7	WS9
Sample Number	ES+D+B	ES+D+B	ES+D	ES+D	D	ES+D
Depth (m)	0.50	0.30	2.50	3.50	2.00	3.00
Date Sampled	Deviating	Deviating	Deviating	Deviating	Deviating	Deviating
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status			
Heavy Metals / Metalloids						
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	22	39	12
Boron (water soluble)	mg/kg	0.2	MCERTS	0.6	0.4	0.9
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	32	20	20
Copper (aqua regia extractable)	mg/kg	1	MCERTS	72	59	53
Lead (aqua regia extractable)	mg/kg	1	MCERTS	34	130	26
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	52	32	54
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	90	58	110
Magnesium (water soluble)	mg/kg	5	NONE	2600	11000	-
Monoaromatics						
Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
p & m-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
o-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
Petroleum Hydrocarbons						
TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	2.1	< 2.0	2.1
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	19	38	< 8.0
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	21	38	< 10
TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	10	7.1	6.0
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	5.7	3.5	< 2.0
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	21	27	< 10
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	19	47	< 10
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	55	84	< 10



Analytical Report Number: 15-75496
Project / Site name: Moncton Phase I

Lab Sample Number	466023	466024	466025	466026	466027	466028
Sample Reference	TP107	TP108	TP109	TP109	WS7	WS9
Sample Number	ES+D+B	ES+D+B	ES+D	ES+D	D	ES+D
Depth (m)	0.50	0.30	2.50	3.50	2.00	3.00
Date Sampled	Deviating	Deviating	Deviating	Deviating	Deviating	Deviating
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status			
VOCs						
Chloromethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0
Chloroethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0
Bromomethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0
Vinyl Chloride	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0
Trichlorofluoromethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
2,2-Dichloropropane	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0
Trichloromethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
1,1,1-Trichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
1,1-Dichloropropene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0
Trans-1,2-dichloroethene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0
Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
Tetrachloromethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
Trichloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
Dibromomethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
Bromodichloromethane	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
1,3-Dichloropropane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0
Dibromochloromethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0
Tetrachloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
1,2-Dibromoethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0
Chlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
1,1,1,2-Tetrachloroethane	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
p & m-Xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
Styrene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
Tribromomethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
o-Xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
Isopropylbenzene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0
Bromobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
n-Propylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0
2-Chlorotoluene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0
4-Chlorotoluene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0
tert-Butylbenzene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0
sec-Butylbenzene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0
p-Isopropyltoluene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
Butylbenzene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
Hexachlorobutadiene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0
1,2,3-Trichlorobenzene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0

Analytical Report Number: 15-75496

Project / Site name: Moncton Phase I

Lab Sample Number	466023	466024	466025	466026	466027	466028
Sample Reference	TP107	TP108	TP109	TP109	WS7	WS9
Sample Number	ES+D+B	ES+D+B	ES+D	ES+D	D	ES+D
Depth (m)	0.50	0.30	2.50	3.50	2.00	3.00
Date Sampled	Deviating	Deviating	Deviating	Deviating	Deviating	Deviating
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status			
SVOCs						
Aniline	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1
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	MCERTS	< 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	MCERTS	< 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
Naphthalene	mg/kg	0.05	MCERTS	1.2	1.8	3.1
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	MCERTS	< 0.1	< 0.1	< 0.1
2,4,5-Trichlorophenol	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2
2-Methylnaphthalene	mg/kg	0.1	NONE	0.8	0.9	2.0
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	MCERTS	< 0.1	< 0.1	< 0.1
Acenaphthylene	mg/kg	0.1	MCERTS	< 0.10	0.36	< 0.10
Acenaphthene	mg/kg	0.1	MCERTS	0.41	< 0.10	< 0.10
2,4-Dinitrotoluene	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2
Dibenzofuran	mg/kg	0.2	MCERTS	1.1	0.8	1.0
4-Chlorophenyl phenyl ether	mg/kg	0.3	ISO 17025	< 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	MCERTS	< 0.2	< 0.2	< 0.2
Fluorene	mg/kg	0.1	MCERTS	0.66	< 0.10	< 0.10
Azobenzene	mg/kg	0.3	MCERTS	< 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	< 0.3	< 0.3	< 0.3
Phenanthrene	mg/kg	0.1	MCERTS	5.0	3.1	1.1
Anthracene	mg/kg	0.1	MCERTS	0.83	0.66	< 0.10
Carbazole	mg/kg	0.3	MCERTS	0.3	0.4	< 0.3
Dibutyl phthalate	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2
Anthraquinone	mg/kg	0.3	MCERTS	< 0.3	0.7	< 0.3
Fluoranthene	mg/kg	0.1	MCERTS	3.7	4.8	< 0.10
Pyrene	mg/kg	0.1	MCERTS	2.7	4.3	< 0.10
Butyl benzyl phthalate	mg/kg	0.3	ISO 17025	< 0.3	< 0.3	< 0.3
Benzo(a)anthracene	mg/kg	0.1	MCERTS	1.3	2.9	< 0.10
Chrysene	mg/kg	0.05	MCERTS	1.3	2.9	< 0.05
Benzo(b)fluoranthene	mg/kg	0.1	MCERTS	< 0.10	2.4	< 0.10
Benzo(k)fluoranthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10
Benzo(a)pyrene	mg/kg	0.1	MCERTS	0.87	2.6	< 0.10
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	MCERTS	0.42	1.8	< 0.10
Dibenz(a,h)anthracene	mg/kg	0.1	MCERTS	0.13	0.45	< 0.10
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	0.49	2.0	< 0.05

1/S - Insufficient sample



Analytical Report Number: 15-75496

Project / Site name: Moncton Phase I

Lab Sample Number				
Sample Reference				
Sample Number				
Depth (m)				
Date Sampled				
Time Taken				
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status	
Stone Content	%	0.1	NONE	
Moisture Content	%	N/A	NONE	
Total mass of sample received	kg	0.001	NONE	

Asbestos in Soil Screen / Identification Name	Type	N/A	ISO 17025	
Asbestos in Soil	Type	N/A	ISO 17025	

General Inorganics

pH	pH Units	N/A	MCERTS	
Total Sulphate as SO ₄	mg/kg	50	MCERTS	
Water Soluble Sulphate (Soil Equivalent)	g/l	0.0025	MCERTS	
Water Soluble SO ₄ (BRE SD 2:1 Leach Equivalent)	g/l	0.00125	MCERTS	
Water Soluble Chloride (2:1)	mg/kg	1	MCERTS	
Total Sulphur	mg/kg	50	NONE	
Ammonium as NH ₄	mg/kg	0.5	MCERTS	
Water Soluble Nitrate (2:1) as N	mg/kg	2	NONE	
Calorific Value (Subcontracted)	MJ/kg	0.01	NONE	

Phenols by GC-MS

Phenol	mg/kg	0.2	NONE	
2,4,5-Trichlorophenol	mg/kg	0.2	NONE	
2,4,6-Trichlorophenol	mg/kg	0.1	NONE	
2,4-Dichlorophenol	mg/kg	0.3	NONE	
2,4-Dimethylphenol	mg/kg	0.3	NONE	
2-Chlorophenol	mg/kg	0.1	NONE	
2-Methylphenol	mg/kg	0.3	NONE	
2-Nitrophenol	mg/kg	0.3	NONE	
4-Chloro-3-methylphenol	mg/kg	0.1	ISO 17025	
4-Methylphenol	mg/kg	0.2	MCERTS	

Total Phenols

Total Phenols (GC-MS)	mg/kg	1	NONE	
-----------------------	-------	---	------	--

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	
Acenaphthylene	mg/kg	0.1	MCERTS	
Acenaphthene	mg/kg	0.1	MCERTS	
Fluorene	mg/kg	0.1	MCERTS	
Phenanthrene	mg/kg	0.1	MCERTS	
Anthracene	mg/kg	0.1	MCERTS	
Fluoranthene	mg/kg	0.1	MCERTS	
Pyrene	mg/kg	0.1	MCERTS	
Benzo(a)anthracene	mg/kg	0.1	MCERTS	
Chrysene	mg/kg	0.05	MCERTS	
Benzo(b)fluoranthene	mg/kg	0.1	MCERTS	
Benzo(k)fluoranthene	mg/kg	0.1	MCERTS	
Benzo(a)pyrene	mg/kg	0.1	MCERTS	
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	MCERTS	
Dibenz(a,h)anthracene	mg/kg	0.1	MCERTS	
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	1.6	MCERTS	
-----------------------------	-------	-----	--------	--



4041



Environmental Sciences

Analytical Report Number: 15-75496

Project / Site name: Moncton Phase I

Lab Sample Number						
Sample Reference						
Sample Number						
Depth (m)						
Date Sampled						
Time Taken						
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status			
Heavy Metals / Metalloids						
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS			
Boron (water soluble)	mg/kg	0.2	MCERTS			
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS			
Chromium (aqua regia extractable)	mg/kg	1	MCERTS			
Copper (aqua regia extractable)	mg/kg	1	MCERTS			
Lead (aqua regia extractable)	mg/kg	1	MCERTS			
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS			
Nickel (aqua regia extractable)	mg/kg	1	MCERTS			
Selenium (aqua regia extractable)	mg/kg	1	MCERTS			
Zinc (aqua regia extractable)	mg/kg	1	MCERTS			
Magnesium (water soluble)	mg/kg	5	NONE			
Monoaromatics						
Benzene	µg/kg	1	MCERTS			
Toluene	µg/kg	1	MCERTS			
Ethylbenzene	µg/kg	1	MCERTS			
p & m-xylene	µg/kg	1	MCERTS			
o-xylene	µg/kg	1	MCERTS			
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS			
Petroleum Hydrocarbons						
TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.1	MCERTS			
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.1	MCERTS			
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.1	MCERTS			
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS			
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS			
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS			
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS			
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS			
TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.1	MCERTS			
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.1	MCERTS			
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.1	MCERTS			
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS			
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS			
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS			
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS			
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS			

Analytical Report Number: 15-75496
Project / Site name: Moncton Phase I

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

Analytical Report Number: 15-75496

Project / Site name: Moncton Phase I

Lab Sample Number						
Sample Reference						
Sample Number						
Depth (m)						
Date Sampled						
Time Taken						
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status			
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	MCERTS			
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	MCERTS			
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			
Naphthalene	mg/kg	0.05	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	MCERTS			
2,4,5-Trichlorophenol	mg/kg	0.2	MCERTS			
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	MCERTS			
Acenaphthylene	mg/kg	0.1	MCERTS			
Acenaphthene	mg/kg	0.1	MCERTS			
2,4-Dinitrotoluene	mg/kg	0.2	MCERTS			
Dibenzofuran	mg/kg	0.2	MCERTS			
4-Chlorophenyl phenyl ether	mg/kg	0.3	ISO 17025			
Diethyl phthalate	mg/kg	0.2	MCERTS			
4-Nitroaniline	mg/kg	0.2	MCERTS			
Fluorene	mg/kg	0.1	MCERTS			
Azobenzene	mg/kg	0.3	MCERTS			
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS			
Hexachlorobenzene	mg/kg	0.3	MCERTS			
Phenanthrene	mg/kg	0.1	MCERTS			
Anthracene	mg/kg	0.1	MCERTS			
Carbazole	mg/kg	0.3	MCERTS			
Dibutyl phthalate	mg/kg	0.2	MCERTS			
Anthraquinone	mg/kg	0.3	MCERTS			
Fluoranthene	mg/kg	0.1	MCERTS			
Pyrene	mg/kg	0.1	MCERTS			
Butyl benzyl phthalate	mg/kg	0.3	ISO 17025			
Benzo(a)anthracene	mg/kg	0.1	MCERTS			
Chrysene	mg/kg	0.05	MCERTS			
Benzo(b)fluoranthene	mg/kg	0.1	MCERTS			
Benzo(k)fluoranthene	mg/kg	0.1	MCERTS			
Benzo(a)pyrene	mg/kg	0.1	MCERTS			
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	MCERTS			
Dibenz(a,h)anthracene	mg/kg	0.1	MCERTS			
Benzo(ghi)perylene	mg/kg	0.05	MCERTS			

I/S - Insufficient sample



Analytical Report Number: 15-75496
Project / Site name: Moncton Phase I

Lab Sample Number				466029	466030	466031	466032	466033
Sample Reference				TP101	TP104	TP107	TP108	TP109
Sample Number				ES+D	ES+D+B	ES+D+B	ES+D+B	ES+D
Depth (m)				1.00	1.00	0.50	0.30	2.50
Date Sampled				Deviating	Deviating	Deviating	Deviating	Deviating
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Leachate Analysis)	Units	Limit of detection	Accreditation Status					

Phenols by GC-MS

Phenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
2,4,5-Trichlorophenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
2,4,6-Trichlorophenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
2,4-Dichlorophenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
2,4-Dimethylphenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
2-Chlorophenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
2-Methylphenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
2-Nitrophenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
4-Chloro-3-methylphenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
4-Methylphenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05

Total Phenols

Total Phenols (GC-MS)	µg/l	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
-----------------------	------	---	------	-------	-------	-------	-------	-------

Speciated PAHs

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

Total PAH

Total EPA-16 PAHs	µg/l	0.2	NONE	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
-------------------	------	-----	------	-------	-------	-------	-------	-------

Heavy Metals / Metalloids

Arsenic (dissolved)	µg/l	1.1	ISO 17025	< 1.1	3.5	< 1.1	< 1.1	< 1.1
Boron (dissolved)	µg/l	10	ISO 17025	42	26	29	26	45
Cadmium (dissolved)	µg/l	0.08	ISO 17025	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08
Chromium (dissolved)	µg/l	0.4	ISO 17025	0.4	0.9	< 0.4	< 0.4	1.3
Copper (dissolved)	µg/l	0.7	ISO 17025	1.1	3.1	1.9	2.8	1.2
Lead (dissolved)	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	1.4
Mercury (dissolved)	µg/l	0.5	ISO 17025	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Nickel (dissolved)	µg/l	0.3	ISO 17025	< 0.3	0.3	< 0.3	3.2	0.3
Selenium (dissolved)	µg/l	4	ISO 17025	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
Zinc (dissolved)	µg/l	0.4	ISO 17025	8.7	5.9	5.5	11	7.8



Analytical Report Number: 15-75496

Project / Site name: Moncton Phase I

Lab Sample Number				466029	466030	466031	466032	466033
Sample Reference				TP101	TP104	TP107	TP108	TP109
Sample Number				ES+D	ES+D+B	ES+D+B	ES+D+B	ES+D
Depth (m)				1.00	1.00	0.50	0.30	2.50
Date Sampled				Deviating	Deviating	Deviating	Deviating	Deviating
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Leachate Analysis)	Units	Limit of detection	Accreditation Status					

Monoaromatics

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

Petroleum Hydrocarbons

TPH-CWG - Aliphatic >C5 - C6	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic >C6 - C8	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic >C8 - C10	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic >C10 - C12	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic >C12 - C16	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic >C16 - C21	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic >C21 - C35	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic (C5 - C35)	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10

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



Analytical Report Number: 15-75496

Project / Site name: Moncton Phase I

Lab Sample Number				466029	466030	466031	466032	466033
Sample Reference				TP101	TP104	TP107	TP108	TP109
Sample Number				ES+D	ES+D+B	ES+D+B	ES+D+B	ES+D
Depth (m)				1.00	1.00	0.50	0.30	2.50
Date Sampled				Deviating	Deviating	Deviating	Deviating	Deviating
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Leachate Analysis)	Units	Limit of detection	Accreditation Status					
VOCs								
Chloromethane	µg/l	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane	µg/l	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane	µg/l	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl Chloride	µg/l	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-dichloroethene	µg/l	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/l	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Cis-1,2-dichloroethene	µg/l	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/l	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-dichloroethane	µg/l	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
2,2-Dichloropropane	µg/l	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloromethane	µg/l	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1-Trichloroethane	µg/l	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-dichloroethane	µg/l	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloropropene	µg/l	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trans-1,2-dichloroethene	µg/l	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Benzene	µg/l	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloromethane	µg/l	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-dichloropropane	µg/l	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	µg/l	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dibromomethane	µg/l	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromodichloromethane	µg/l	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Cis-1,3-dichloropropene	µg/l	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trans-1,3-dichloropropene	µg/l	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/l	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane	µg/l	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichloropropane	µg/l	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dibromochloromethane	µg/l	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethene	µg/l	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromoethane	µg/l	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorobenzene	µg/l	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1,2-Tetrachloroethane	µg/l	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	µg/l	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p & m-xylene	µg/l	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Styrene	µg/l	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tribromomethane	µg/l	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-xylene	µg/l	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane	µg/l	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Isopropylbenzene	µg/l	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromobenzene	µg/l	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
N-Propylbenzene	µg/l	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
2-Chlorotoluene	µg/l	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
4-Chlorotoluene	µg/l	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene	µg/l	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tert-Butylbenzene	µg/l	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trimethylbenzene	µg/l	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Sec-Butylbenzene	µg/l	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-dichlorobenzene	µg/l	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
P-Isopropyltoluene	µg/l	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-dichlorobenzene	µg/l	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,4-dichlorobenzene	µg/l	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Butylbenzene	µg/l	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromo-3-chloropropane	µg/l	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trichlorobenzene	µg/l	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Hexachlorobutadiene	µg/l	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,2,3-Trichlorobenzene	µg/l	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0



Analytical Report Number: 15-75496

Project / Site name: Moncton Phase I

Lab Sample Number				466029	466030	466031	466032	466033
Sample Reference				TP101	TP104	TP107	TP108	TP109
Sample Number				ES+D	ES+D+B	ES+D+B	ES+D+B	ES+D
Depth (m)				1.00	1.00	0.50	0.30	2.50
Date Sampled				Deviating	Deviating	Deviating	Deviating	Deviating
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Leachate Analysis)	Units	Limit of detection	Accreditation Status					
SVOCs								
Aniline	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Phenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
2-Chlorophenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Bis(2-chloroethyl)ether	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
1,3-Dichlorobenzene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
1,2-Dichlorobenzene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
1,4-Dichlorobenzene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Bis(2-chloroisopropyl)ether	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
2-Methylphenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Hexachloroethane	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Nitrobenzene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
4-Methylphenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Isophorone	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
2-Nitrophenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
2,4-Dimethylphenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Bis(2-chloroethoxy)methane	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
1,2,4-Trichlorobenzene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Naphthalene	µg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2,4-Dichlorophenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
4-Chloroaniline	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobutadiene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
4-Chloro-3-methylphenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
2,4,6-Trichlorophenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
2,4,5-Trichlorophenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
2-Methylnaphthalene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
2-Chloronaphthalene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Dimethylphthalate	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
2,6-Dinitrotoluene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthylene	µg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Acenaphthene	µg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2,4-Dinitrotoluene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Dibenzofuran	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
4-Chlorophenyl phenyl ether	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Diethyl phthalate	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
4-Nitroaniline	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluorene	µg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Azobenzene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Bromophenyl phenyl ether	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	µg/l	0.02	NONE	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Phenanthrene	µg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Anthracene	µg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Carbazole	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Dibutyl phthalate	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Anthraquinone	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluoranthene	µg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Pyrene	µg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Butyl benzyl phthalate	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(a)anthracene	µg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Chrysene	µg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(b)fluoranthene	µg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(k)fluoranthene	µg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(a)pyrene	µg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Indeno(1,2,3-cd)pyrene	µg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Dibenz(a,h)anthracene	µg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(ghi)perylene	µg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01

Analytical Report Number : 15-75496

Project / Site name: Moncton Phase I

* 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 *
466017	TP101	ES+D	1.00	Brown loam and sand.
466018	TP103	ES+D+B	1.00	Black loam and sand with gravel.
466019	TP104	ES+D+B	1.00	Black loam and sand with gravel.
466020	TP105	ES+D	1.50	Grey clay and sand.
466021	TP106	ES+D+B	1.00	Brown clay and sand.
466022	TP106	ES+D+B	1.50	Light brown clay and sand.
466023	TP107	ES+D+B	0.50	Brown sandy loam with gravel.
466024	TP108	ES+D+B	0.30	Brown sandy loam with gravel and brick.
466025	TP109	ES+D	2.50	Grey gravelly clay.
466026	TP109	ES+D	3.50	Light brown clay and sand.
466027	WS7	D	2.00	Light brown clay and sand.
466028	WS9	ES+D	3.00	Light brown clay and sand.

Analytical Report Number : 15-75496

Project / Site name: Moncton Phase I

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

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Ammonium as NH ₄ in soil	Determination of Ammonium/Ammonia/Ammoniacal Nitrogen by the colorimetric salicylate/nitroprusside method.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L082-PL	W	MCERTS
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with disperion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025
Boron in leachate	Determination of boron by acidification followed by ICP-OES.	In-house method based on MEWAM	L039-PL	W	ISO 17025
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	L038-PL	D	MCERTS
BTEX and MTBE in leachates	Determination of BTEX and MTBE in leachates by headspace GC-MS.	In-house method based on USEPA8260	L073W-PL	W	NONE
BTEX and MTBE in soil	Determination of BTEX in soil by headspace GC-MS.	In-house method based on USEPA8260	L073S-PL	W	MCERTS
Calorific Value of soil	Subcontracted.	Subcontracted analysis		W	NONE
Chloride, water soluble, in soil	Determination of Chloride colorimetrically by discrete analyser.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests. 2:1 extraction.	L082-PL	D	MCERTS
Magnesium, water soluble, in soil	Determination of water soluble magnesium by extraction with water followed by ICP-OES.	In-house method based on TRL 447	L038-PL	D	NONE
Metals by ICP-OES in leachate	Determination of metals in leachate by acidification followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L039-PL	W	ISO 17025
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Moisture Content	Moisture content, determined gravimetrically.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L019-UK/PL	W	NONE
pH in soil (automated)	Determination of pH in soil by addition of water followed by electrometric measurement.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L099-PL	D	MCERTS
Phenols, speciated, in leachate, by GCMS	Determination of speciated phenols in leachate by extraction in hexane followed by GC-MS.	In-house method based on USEPA 8270	L070-PL	W	NONE
Phenols, speciated, in soil, by GCMS	Determination of speciated phenols in soil by extraction in dichloromethane and hexane followed by GC-MS.	In-house method based on USEPA 8270	L064-PL	D	NONE
Semi-volatile organic compounds in leachate	Determination of semi-volatile organic compounds in leachate by extraction in dichloromethane followed by GC-MS.	In-house method based on USEPA 8270	L070-PL	W	NONE
Semi-volatile organic compounds in soil	Determination of semi-volatile organic compounds in soil by extraction in dichloromethane and hexane followed by GC-MS.	In-house method based on USEPA 8270	L064-PL	D	MCERTS

SAL Reference: 558017							
Customer Reference: G15C09							
Leachate, Water				Analysed as Water			
Semi-Volatile Organic Compounds (USEPA 625)(EK)							
SAL Reference					558017 008	558017 014	558017 043
Customer Sample Reference					TP1006 2.8m	TP1010 1.0m	SVOC Blank
Date Sampled					Deviating	Deviating	25-MAR-2016
Determinand	Method	Test Sample	LOD	Units			
Phenol	T16	10:1	10	µg/l	<10	<10	-
Phenol	T16	AR	10	µg/l	-	-	<10
Bis (2-chloroethyl) ether	T16	10:1	10	µg/l	<10	<10	-
Bis (2-chloroethyl) ether	T16	AR	10	µg/l	-	-	<10
2-Chlorophenol	T16	10:1	10	µg/l	<10	<10	-
2-Chlorophenol	T16	AR	10	µg/l	-	-	<10
1,3-Dichlorobenzene	T16	10:1	10	µg/l	<10	<10	-
1,3-Dichlorobenzene	T16	AR	10	µg/l	-	-	<10
1,4-Dichlorobenzene	T16	10:1	10	µg/l	<10	<10	-
1,4-Dichlorobenzene	T16	AR	10	µg/l	-	-	<10
1,2-Dichlorobenzene	T16	10:1	10	µg/l	<10	<10	-
1,2-Dichlorobenzene	T16	AR	10	µg/l	-	-	<10
Bis (2-chloroisopropyl) ether	T16	10:1	10	µg/l	<10	<10	-
Bis (2-chloroisopropyl) ether	T16	AR	10	µg/l	-	-	<10
2-methyl phenol	T16	10:1	10	µg/l	<10	<10	-
2-methyl phenol	T16	AR	10	µg/l	-	-	<10
3/4-Methylphenol	T16	10:1	10	µg/l	<10	<10	-
3/4-Methylphenol	T16	AR	10	µg/l	-	-	<10
Hexachloroethane	T16	10:1	10	µg/l	<10	<10	-
Hexachloroethane	T16	AR	10	µg/l	-	-	<10
Nitrobenzene	T16	10:1	10	µg/l	<10	<10	-
Nitrobenzene	T16	AR	10	µg/l	-	-	<10
Isophorone	T16	10:1	10	µg/l	<10	<10	-
Isophorone	T16	AR	10	µg/l	-	-	<10
2-Nitrophenol	T16	10:1	10	µg/l	<10	<10	-
2-Nitrophenol	T16	AR	10	µg/l	-	-	<10
2,4-Dimethylphenol	T16	10:1	10	µg/l	<10	<10	-
2,4-Dimethylphenol	T16	AR	10	µg/l	-	-	<10
Bis (2-chloroethoxy) methane	T16	10:1	10	µg/l	<10	<10	-
Bis (2-chloroethoxy) methane	T16	AR	10	µg/l	-	-	<10
2,4-Dichlorophenol	T16	10:1	10	µg/l	<10	<10	-
2,4-Dichlorophenol	T16	AR	10	µg/l	-	-	<10
1,2,4-Trichlorobenzene	T16	10:1	10	µg/l	<10	<10	-
1,2,4-Trichlorobenzene	T16	AR	10	µg/l	-	-	<10
Naphthalene	T16	10:1	10	µg/l	<10	<10	-
Naphthalene	T16	AR	10	µg/l	-	-	<10
4-Chloroaniline	T16	10:1	10	µg/l	<10	<10	-
4-Chloroaniline	T16	AR	10	µg/l	-	-	<10
Hexachlorobutadiene	T16	10:1	10	µg/l	<10	<10	-
Hexachlorobutadiene	T16	AR	10	µg/l	-	-	<10
4-Chloro-3-methylphenol	T16	10:1	10	µg/l	<10	<10	-
4-Chloro-3-methylphenol	T16	AR	10	µg/l	-	-	<10
2-Methylnaphthalene	T16	10:1	10	µg/l	<10	<10	-
2-Methylnaphthalene	T16	AR	10	µg/l	-	-	<10
Hexachlorocyclopentadiene	T16	10:1	10	µg/l	<10	<10	-
Hexachlorocyclopentadiene	T16	AR	10	µg/l	-	-	<10
2,4,6-Trichlorophenol	T16	10:1	10	µg/l	<10	<10	-
2,4,6-Trichlorophenol	T16	AR	10	µg/l	-	-	<10
2,4,5-Trichlorophenol	T16	10:1	10	µg/l	<10	<10	-
2,4,5-Trichlorophenol	T16	AR	10	µg/l	-	-	<10
2-Chloronaphthalene	T16	10:1	10	µg/l	<10	<10	-
2-Chloronaphthalene	T16	AR	10	µg/l	-	-	<10
2-Nitroaniline	T16	10:1	10	µg/l	<10	<10	-
2-Nitroaniline	T16	AR	10	µg/l	-	-	<10
Dimethyl phthalate	T16	10:1	10	µg/l	<10	<10	-
Dimethyl phthalate	T16	AR	10	µg/l	-	-	<10
2,6-Dinitrotoluene	T16	10:1	10	µg/l	<10	<10	-
2,6-Dinitrotoluene	T16	AR	10	µg/l	-	-	<10
Acenaphthylene	T16	10:1	10	µg/l	<10	<10	-
Acenaphthylene	T16	AR	10	µg/l	-	-	<10
Acenaphthene	T16	10:1	10	µg/l	<10	<10	-

SAL Reference: 558017
Customer Reference: G15009

Leachate, Water
Semi-Volatile Organic Compounds (USEPA 625)(EK)

Analysed as Water

SAL Reference	558017 008	558017 014	558017 043
Customer Sample Reference	TP1006 2.8m	TP1010 1.0m	SVOC Blank
Date Sampled	Deviating	Deviating	25-MAR-2016

Determinand	Method	Test Sample	LOD	Units			
Acenaphthene	T16	AR	10	µg/l	-	-	<10
3-Nitroaniline	T16	10:1	10	µg/l	<10	<10	-
3-Nitroaniline	T16	AR	10	µg/l	-	-	<10
Dibenzofuran	T16	10:1	10	µg/l	<10	<10	-
Dibenzofuran	T16	AR	10	µg/l	-	-	<10
2,4-Dinitrotoluene	T16	10:1	10	µg/l	<10	<10	-
2,4-Dinitrotoluene	T16	AR	10	µg/l	-	-	<10
Diethyl phthalate	T16	10:1	10	µg/l	<10	<10	-
Diethyl phthalate	T16	AR	10	µg/l	-	-	<10
Fluorene	T16	10:1	10	µg/l	<10	<10	-
Fluorene	T16	AR	10	µg/l	-	-	<10
4-Chlorophenyl phenylether	T16	10:1	10	µg/l	<10	<10	-
4-Chlorophenyl phenylether	T16	AR	10	µg/l	-	-	<10
4-Nitroaniline	T16	10:1	10	µg/l	<10	<10	-
4-Nitroaniline	T16	AR	10	µg/l	-	-	<10
Azobenzene	T16	10:1	10	µg/l	<10	<10	-
Azobenzene	T16	AR	10	µg/l	-	-	<10
4-Bromophenyl phenylether	T16	10:1	10	µg/l	<10	<10	-
4-Bromophenyl phenylether	T16	AR	10	µg/l	-	-	<10
Hexachlorobenzene	T16	10:1	10	µg/l	<10	<10	-
Hexachlorobenzene	T16	AR	10	µg/l	-	-	<10
Pentachlorophenol	T16	10:1	10	µg/l	<10	<10	-
Pentachlorophenol	T16	AR	10	µg/l	-	-	<10
Phenanthrene	T16	10:1	10	µg/l	<10	<10	-
Phenanthrene	T16	AR	10	µg/l	-	-	<10
Anthracene	T16	10:1	10	µg/l	<10	<10	-
Anthracene	T16	AR	10	µg/l	-	-	<10
Carbazole	T16	10:1	10	µg/l	<10	<10	-
Carbazole	T16	AR	10	µg/l	-	-	<10
Di-n-butylphthalate	T16	10:1	10	µg/l	<10	<10	-
Di-n-butylphthalate	T16	AR	10	µg/l	-	-	<10
Fluoranthene	T16	10:1	10	µg/l	<10	<10	-
Fluoranthene	T16	AR	10	µg/l	-	-	<10
Pyrene	T16	10:1	10	µg/l	<10	<10	-
Pyrene	T16	AR	10	µg/l	-	-	<10
Butyl benzylphthalate	T16	10:1	10	µg/l	<10	<10	-
Butyl benzylphthalate	T16	AR	10	µg/l	-	-	<10
Benzo(a)Anthracene	T16	10:1	10	µg/l	<10	<10	-
Benzo(a)Anthracene	T16	AR	10	µg/l	-	-	<10
Chrysene	T16	10:1	10	µg/l	<10	<10	-
Chrysene	T16	AR	10	µg/l	-	-	<10
Bis (2-ethylhexyl)phthalate	T16	10:1	10	µg/l	<10	<10	-
Bis (2-ethylhexyl)phthalate	T16	AR	10	µg/l	-	-	<10
Di-n-octylphthalate	T16	10:1	10	µg/l	<10	<10	-
Di-n-octylphthalate	T16	AR	10	µg/l	-	-	<10
Benzo(b,k)Fluoranthene	T16	10:1	10	µg/l	<10	<10	-
Benzo(b,k)Fluoranthene	T16	AR	10	µg/l	-	-	<10
Benzo(a)Pyrene	T16	10:1	10	µg/l	<10	<10	-
Benzo(a)Pyrene	T16	AR	10	µg/l	-	-	<10
Indeno(123-cd)Pyrene	T16	10:1	10	µg/l	<10	<10	-
Indeno(123-cd)Pyrene	T16	AR	10	µg/l	-	-	<10
Dibenzo(ah)Anthracene	T16	10:1	10	µg/l	<10	<10	-
Dibenzo(ah)Anthracene	T16	AR	10	µg/l	-	-	<10
Benzo(ghi)Perylene	T16	10:1	10	µg/l	<10	<10	-
Benzo(ghi)Perylene	T16	AR	10	µg/l	-	-	<10
2,4-Dinitrophenol	T16	10:1	10	µg/l	<10	<10	-
2,4-Dinitrophenol	T16	AR	10	µg/l	-	-	<10

○ {

SAL Reference: 558017									
Customer Reference: G15009									
Soil		Analysed as Soil							
Total and Speciated USEPA16 PAH (EK)									
SAL Reference				558017 002	558017 003	558017 004	558017 005	558017 006	
Customer Sample Reference				TP1103 1.3m	TP1102 0.75m	TP1105 1.3m	TP1105 2.9m	TP1005 0.8m	
Date Sampled				Deviating	Deviating	Deviating	Deviating	Deviating	
Determinand	Method	Test Sample	LOD	Units					
Naphthalene	T149	AR	0.01	mg/kg	0.19	3.9	3.5	0.33	6.4
Acenaphthylene	T149	AR	0.01	mg/kg	0.01	0.06	0.09	0.01	0.20
Acenaphthene	T149	AR	0.01	mg/kg	0.03	0.05	0.18	0.01	(9) <0.10
Fluorene	T149	AR	0.01	mg/kg	0.04	0.11	0.18	0.01	0.18
Phenanthrene	T149	AR	0.01	mg/kg	0.15	1.7	2.3	0.28	3.8
Anthracene	T149	AR	0.01	mg/kg	0.03	0.18	0.34	0.02	0.53
Fluoranthene	T149	AR	0.01	mg/kg	0.10	0.41	1.2	0.04	2.6
Pyrene	T149	AR	0.01	mg/kg	0.08	0.41	1.1	0.04	2.6
Benzo(a)Anthracene	T149	AR	0.01	mg/kg	0.07	0.31	0.64	0.03	1.6
Chrysene	T149	AR	0.01	mg/kg	0.07	0.36	0.73	0.04	2.0
Benzo(b)fluoranthene	T149	AR	0.01	mg/kg	0.09	0.29	0.64	0.03	1.8
Benzo(k)fluoranthene	T149	AR	0.01	mg/kg	0.03	0.14	0.35	0.01	0.67
Benzo(a)Pyrene	T149	AR	0.01	mg/kg	0.07	0.22	0.49	0.02	1.2
Indeno(123-cd)Pyrene	T149	AR	0.01	mg/kg	0.03	0.10	0.22	0.01	0.54
Dibenzo(ah)Anthracene	T149	AR	0.01	mg/kg	0.01	0.03	0.06	<0.01	0.15
Benzo(ghi)Perylene	T149	AR	0.01	mg/kg	0.04	0.14	0.29	0.02	0.69
PAH(total)	T149	AR	0.01	mg/kg	1.0	8.4	12	0.90	25

SAL Reference: 558017									
Customer Reference: G15009									
Soil		Analysed as Soil							
Total and Speciated USEPA16 PAH (EK)									
SAL Reference				558017 007	558017 008	558017 010	558017 011	558017 012	
Customer Sample Reference				TP1006 1.1m	TP1006 2.8m	TP1101 2.5m	TP1008 1.0m	TP1009 0.7m	
Date Sampled				Deviating	Deviating	Deviating	Deviating	Deviating	
Determinand	Method	Test Sample	LOD	Units					
Naphthalene	T149	AR	0.01	mg/kg	2.7	7.0	0.08	2.2	0.01
Acenaphthylene	T149	AR	0.01	mg/kg	3.5	22	0.02	(9) <1.0	0.01
Acenaphthene	T149	AR	0.01	mg/kg	0.74	5.8	0.17	(9) <1.0	<0.01
Fluorene	T149	AR	0.01	mg/kg	3.5	27	0.09	(9) <1.0	0.01
Phenanthrene	T149	AR	0.01	mg/kg	16	90	0.07	8.4	0.03
Anthracene	T149	AR	0.01	mg/kg	7.2	45	0.02	2.7	0.01
Fluoranthene	T149	AR	0.01	mg/kg	29	100	0.08	16	0.04
Pyrene	T149	AR	0.01	mg/kg	21	70	0.06	14	0.03
Benzo(a)Anthracene	T149	AR	0.01	mg/kg	(13) 11	44	0.04	12	(13) 0.01
Chrysene	T149	AR	0.01	mg/kg	9.6	38	0.04	11	0.02
Benzo(b)fluoranthene	T149	AR	0.01	mg/kg	8.9	39	0.04	12	0.02
Benzo(k)fluoranthene	T149	AR	0.01	mg/kg	4.6	17	0.02	6.0	0.01
Benzo(a)Pyrene	T149	AR	0.01	mg/kg	8.1	32	0.03	8.9	0.01
Indeno(123-cd)Pyrene	T149	AR	0.01	mg/kg	2.7	13	0.02	4.4	0.01
Dibenzo(ah)Anthracene	T149	AR	0.01	mg/kg	0.69	3.2	0.01	1.5	<0.01
Benzo(ghi)Perylene	T149	AR	0.01	mg/kg	2.5	12	0.02	4.4	0.01
PAH(total)	T149	AR	0.01	mg/kg	130	570	0.81	100	0.23

SAL Reference: 558017 Customer Reference: G15009 Soil Analysed as Soil Total and Speciated USEPA16 PAH (EK)						
SAL Reference			558017 039	558017 040		
Customer Sample Reference			TP1032 0.5m	TP1033 0.5m		
Date Sampled			Deviating	Deviating		
Determinand	Method	Test Sample	LOD	Units		
Naphthalene	T149	AR	0.01	mg/kg	1.6	0.15
Acenaphthylene	T149	AR	0.01	mg/kg	0.04	0.05
Acenaphthene	T149	AR	0.01	mg/kg	0.06	0.12
Fluorene	T149	AR	0.01	mg/kg	0.10	0.10
Phenanthrene	T149	AR	0.01	mg/kg	1.1	0.46
Anthracene	T149	AR	0.01	mg/kg	0.22	0.17
Fluoranthene	T149	AR	0.01	mg/kg	1.4	0.88
Pyrene	T149	AR	0.01	mg/kg	1.3	0.72
Benzo(a)Anthracene	T149	AR	0.01	mg/kg	(13) 0.41	0.50
Chrysene	T149	AR	0.01	mg/kg	0.43	0.49
Benzo(b)fluoranthene	T149	AR	0.01	mg/kg	0.46	0.63
Benzo(k)fluoranthene	T149	AR	0.01	mg/kg	0.19	0.37
Benzo(a)Pyrene	T149	AR	0.01	mg/kg	0.37	0.51
Indeno(123-cd)Pyrene	T149	AR	0.01	mg/kg	0.16	0.23
Dibenzo(ah)Anthracene	T149	AR	0.01	mg/kg	0.03	0.05
Benzo(ghi)Perylene	T149	AR	0.01	mg/kg	0.21	0.24
PAH(total)	T149	AR	0.01	mg/kg	8.0	5.7

Index to symbols used in 558017-1

Value	Description
A40	Assisted dried < 40C
AR	As Received
10:1	Leachate
13	Results have been blank corrected.
62	LOD was raised due to the method performance of the analytical procedure used
9	LOD raised due to dilution of sample
104	LOD raised due to high levels of hydrocarbon compounds
U	Analysis is UKAS accredited
N	Analysis is not UKAS accredited

Notes

Speciated Phenols by HPLC and elemental sulphur analysis carried out at SAL Braintree.

Method Index

Value	Description
T6	ICP/OES
T8	GC/FID
T17	HPLC
T2	Grav
T54	GC/MS (Headspace)
T149	GC/MS (SIR)
T281	ICP/MS (Filtered)
T61	GC/FID (LV)
T373	ICP/OES (Filtered)
T4	Colorimetry
T7	Probe
T686	Discrete Analyser
T112	ICP/OES (SIM)(Water Extract)
T16	GC/MS
T82	ICP/OES (Sim)

Accreditation Summary

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Ammoniacal nitrogen	T686	10:1	0.05	mg/l	U	002,008,014-016,021,024,027,029,032,035
Chloride	T686	10:1	1	mg/l	U	002,008,014-015,021,024,027,029,032
B (Dissolved)	T373	10:1	0.01	mg/l	N	002,005-006,016,021,024,027,029,032,035,038
Sulphur (total)	T6	10:1	50	mg/l	N	002,005-006,016,021,024,027,029,032,035,038
Cyanide(Total)	T4	10:1	0.05	mg/l	U	002,005-006,016,021,024,027,029,032,035,038
Sulphide	T4	10:1	0.05	mg/l	N	006
TPH (C10-C35)	T81	10:1	0.01	mg/l	U	016
pH	T7	10:1			U	002,005-006,016,021,024,027,029,032,035,038
Boron (water-soluble)	T112	A40	1	mg/kg	U	001-006,010-013,016,021,024,033-035,038-040
SO4(Total)	T82	A40	0.01	%	N	002-003,005-006,010-013,016,020-021,023-024,032-035,038-040
Chloride	T686	AR	1	mg/kg	N	006-010,014,016,020-021,023-024,026-031,033-037,040
Cyanide(Total)	T4	AR	1	mg/kg	U	001-006,009-013,016,021,024,033-035,038-040
Sulphide	T4	AR	10	mg/kg	N	001-006,009-013,016,020-021,023-024,026-029,032-035,038-040
Leach Prep	T2	AR			N	002,005-006,008,013-016,021,024,027,029,032,035,038
Sulphur (elemental)	T17	AR	20	mg/kg	N	001-006,009-013,016,020-021,023-029,032-035,038-040
TPH (C10-C35)	T8	AR	1	mg/kg	U	007-010,013-017,019,022-025,028-029,032-035,037
pH	T7	A40			U	002-003,005-006,010-013,016,020-021,023-024,032-035,038-040
Benzene	T54	10:1	1	µg/l	U	008,013-015,029
EthylBenzene	T54	10:1	1	µg/l	U	008,013-015,029
M/P Xylene	T54	10:1	1	µg/l	U	008,013-015,029
O Xylene	T54	10:1	1	µg/l	U	008,013-015,029
Toluene	T54	10:1	1	µg/l	U	008,013-015,029
Benzene	T54	AR	1	µg/kg	U	007-008,010,013-017,024,030-031,033-035,037,040
EthylBenzene	T54	AR	1	µg/kg	U	007-008,010,013-017,024,030-031,033-035,037,040
M/P Xylene	T54	AR	1	µg/kg	U	007-008,010,013-017,024,030-031,033-035,037,040
O Xylene	T54	AR	1	µg/kg	U	007-008,010,013-017,024,030-031,033-035,037,040
Toluene	T54	AR	1	µg/kg	U	007-008,010,013-017,024,030-031,033-035,037,040
As (Dissolved)	T281	10:1	0.2	µg/l	U	002,005-006,016,021,024,027,029,032,035,038

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Cd (Dissolved)	T281	10:1	0.02	µg/l	U	002,005-006,016,021,024,027,029,032,035,038
Cr (Dissolved)	T281	10:1	1	µg/l	U	002,005-006,016,021,024,027,029,032,035,038
Cu (Dissolved)	T281	10:1	0.5	µg/l	U	002,005-006,016,021,024,027,029,032,035,038
Pb (Dissolved)	T281	10:1	0.3	µg/l	U	002,005-006,016,021,024,027,029,032,035,038
Hg (Dissolved)	T281	10:1	0.05	µg/l	U	002,005-006,016,021,024,027,029,032,035,038
Ni (Dissolved)	T281	10:1	1	µg/l	U	002,005-006,016,021,024,027,029,032,035,038
Se (Dissolved)	T281	10:1	0.5	µg/l	U	002,005-006,016,021,024,027,029,032,035,038
Zn (Dissolved)	T281	10:1	2	µg/l	U	002,005-006,016,021,024,027,029,032,035,038
Arsenic	T82	A40	2	mg/kg	U	001-006,010-013,016,021,024,033-035,038-040
Cadmium	T82	A40	1	mg/kg	U	001-006,010-013,016,021,024,033-035,038-040
Chromium	T82	A40	1	mg/kg	U	001-006,010-013,016,021,024,033-035,038-040
Copper	T82	A40	1	mg/kg	U	001-006,010-013,016,021,024,033-035,038-040
Lead	T82	A40	3	mg/kg	U	001-006,010-013,016,021,024,033-035,038-040
Mercury	T82	A40	1	mg/kg	U	001-006,010-013,016,021,024,033-035,038-040
Nickel	T82	A40	1	mg/kg	U	001-006,010-013,016,021,024,033-035,038-040
Selenium	T82	A40	3	mg/kg	U	001-006,010-013,016,021,024,033-035,038-040
Zinc	T82	A40	1	mg/kg	U	001-006,010-013,016,021,024,033-035,038-040
Naphthalene	T149	10:1	0.01	µg/l	U	002,005-006,008,013-016,021,024,027,029,032,035,038
Acenaphthylene	T149	10:1	0.01	µg/l	U	002,005-006,008,013-016,021,024,027,029,032,035,038
Acenaphthene	T149	10:1	0.01	µg/l	U	002,005-006,008,013-016,021,024,027,029,032,035,038
Fluorene	T149	10:1	0.01	µg/l	U	002,005-006,008,013-016,021,024,027,029,032,035,038
Phenanthrene	T149	10:1	0.01	µg/l	U	002,005-006,008,013-016,021,024,027,029,032,035,038
Anthracene	T149	10:1	0.01	µg/l	U	002,005-006,008,013-016,021,024,027,029,032,035,038
Fluoranthene	T149	10:1	0.01	µg/l	U	002,005-006,008,013-016,021,024,027,029,032,035,038
Pyrene	T149	10:1	0.01	µg/l	U	002,005-006,008,013-016,021,024,027,029,032,035,038
Benzo(a)Anthracene	T149	10:1	0.01	µg/l	U	002,005-006,008,013-016,021,024,027,029,032,035,038
Chrysene	T149	10:1	0.01	µg/l	U	002,005-006,008,013-016,021,024,027,029,032,035,038
Benzo(b)fluoranthene	T149	10:1	0.01	µg/l	U	002,005-006,008,013-016,021,024,027,029,032,035,038
Benzo(k)fluoranthene	T149	10:1	0.01	µg/l	U	002,005-006,008,013-016,021,024,027,029,032,035,038
Benzo(a)Pyrene	T149	10:1	0.01	µg/l	U	002,005-006,008,013-016,021,024,027,029,032,035,038
Indeno(123-cd)Pyrene	T149	10:1	0.01	µg/l	U	002,005-006,008,013-016,021,024,027,029,032,035,038
Dibenzo(ah)Anthracene	T149	10:1	0.01	µg/l	U	002,005-006,008,013-016,021,024,027,029,032,035,038
Benzo(ghi)Perylene	T149	10:1	0.01	µg/l	U	002,005-006,008,013-016,021,024,027,029,032,035,038
PAH(total)	T17	AR	0.05	mg/kg	N	001-005,007-016,020-021,023-029,032-035,038-040
Catechol	T17	AR	0.05	mg/kg	N	001-005,007-016,020-021,023-029,032-035,038-040
Cresols	T17	AR	0.05	mg/kg	N	001-005,007-016,020-021,023-029,032-035,038-040
Naphthols	T17	AR	0.1	mg/kg	N	001-005,007-016,020-021,023-029,032-035,038-040
Phenol	T17	AR	0.05	mg/kg	N	001-005,007-016,020-021,023-029,032-035,038-040
Resorcinol	T17	AR	0.1	mg/kg	N	001-005,007-016,020-021,023-029,032-035,038-040
Total Phenols	T17	AR	0.05	mg/kg	N	001-005,007-016,020-021,023-029,032-035,038-040
Trimethyl phenol	T17	AR	0.05	mg/kg	N	001-005,007-016,020-021,023-029,032-035,038-040
Xylenols	T17	AR	0.05	mg/kg	N	002,005-006,008,016,021,024,027,029,032,035,038
Catechol	T17	10:1	0.005	mg/l	N	002,005-006,008,016,021,024,027,029,032,035,038
Cresols	T17	10:1	0.005	mg/l	N	002,005-006,008,016,021,024,027,029,032,035,038
Naphthols	T17	10:1	0.01	mg/l	N	002,005-006,008,016,021,024,027,029,032,035,038
Phenol	T17	10:1	0.005	mg/l	N	002,005-006,008,016,021,024,027,029,032,035,038
Resorcinol	T17	10:1	0.005	mg/l	N	002,005-006,008,016,021,024,027,029,032,035,038
Total Phenols	T17	10:1	0.01	mg/l	N	002,005-006,008,016,021,024,027,029,032,035,038
Trimethyl phenols	T17	10:1	0.01	mg/l	N	002,005-006,008,016,021,024,027,029,032,035,038
Xylenols	T16	AR	0.1	mg/kg	U	007,009-010,014-015,017,022-024,040,042
Phenol	T16	AR	0.1	mg/kg	U	007,009-010,014-015,017,022-024,040,042
Bis (2-chloroethyl) ether	T16	AR	0.1	mg/kg	U	007,009-010,014-015,017,022-024,040,042
2-Chlorophenol	T16	AR	0.1	mg/kg	U	007,009-010,014-015,017,022-024,040,042
1,3-Dichlorobenzene	T16	AR	0.1	mg/kg	U	007,009-010,014-015,017,022-024,040,042
1,4-Dichlorobenzene	T16	AR	0.1	mg/kg	U	007,009-010,014-015,017,022-024,040,042
1,2-Dichlorobenzene	T16	AR	0.1	mg/kg	U	007,009-010,014-015,017,022-024,040,042
Bis (2-chloroisopropyl) ether	T16	AR	0.1	mg/kg	U	007,009-010,014-015,017,022-024,040,042
2-methyl phenol	T16	AR	0.1	mg/kg	U	007,009-010,014-015,017,022-024,040,042
3/4-Methylphenol	T16	AR	0.1	mg/kg	U	007,009-010,014-015,017,022-024,040,042
Hexachloroethane	T16	AR	0.1	mg/kg	U	007,009-010,014-015,017,022-024,040,042
Nitrobenzene	T16	AR	0.1	mg/kg	U	007,009-010,014-015,017,022-024,040,042
Isophorane	T16	AR	0.1	mg/kg	U	007,009-010,014-015,017,022-024,040,042
2,4-Dimethylphenol	T16	AR	0.1	mg/kg	U	007,009-010,014-015,017,022-024,040,042
Bis (2-chloroethoxy) methane	T16	AR	0.1	mg/kg	U	007,009-010,014-015,017,022-024,040,042
2,4-Dichlorophenol	T16	AR	0.1	mg/kg	U	007,009-010,014-015,017,022-024,040,042
1,2,4-Trichlorobenzene	T16	AR	0.1	mg/kg	U	007,009-010,014-015,017,022-024,040,042
Naphthalene	T16	AR	0.1	mg/kg	U	007,009-010,014-015,017,022-024,040,042
4-Chloroaniline	T16	AR	0.1	mg/kg	U	007,009-010,014-015,017,022-024,040,042
Hexachlorobutadiene	T16	AR	0.1	mg/kg	U	007,009-010,014-015,017,022-024,040,042
4-Chloro-3-methylphenol	T16	AR	0.1	mg/kg	U	007,009-010,014-015,017,022-024,040,042

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
2-Methylnaphthalene	T16	AR	0.1	mg/kg	U	007,009-010,014-015,017,022-024,040,042
Hexachlorocyclopentadiene	T16	AR	0.1	mg/kg	U	007,009-010,014-015,017,022-024,040,042
2,4,6-Trichlorophenol	T16	AR	0.1	mg/kg	U	007,009-010,014-015,017,022-024,040,042
2,4,5-Trichlorophenol	T16	AR	0.1	mg/kg	U	007,009-010,014-015,017,022-024,040,042
2-Chloronaphthalene	T16	AR	0.1	mg/kg	U	007,009-010,014-015,017,022-024,040,042
2-Nitroaniline	T16	AR	0.1	mg/kg	U	007,009-010,014-015,017,022-024,040,042
Dimethyl phthalate	T16	AR	0.1	mg/kg	U	007,009-010,014-015,017,022-024,040,042
2,6-Dinitrotoluene	T16	AR	0.1	mg/kg	U	007,009-010,014-015,017,022-024,040,042
Acenaphthylene	T16	AR	0.1	mg/kg	U	007,009-010,014-015,017,022-024,040,042
Acenaphthene	T16	AR	0.1	mg/kg	U	007,009-010,014-015,017,022-024,040,042
3-Nitroaniline	T16	AR	0.1	mg/kg	U	007,009-010,014-015,017,022-024,040,042
Dibenzofuran	T16	AR	0.1	mg/kg	U	007,009-010,014-015,017,022-024,040,042
2,4-Dinitrotoluene	T16	AR	0.1	mg/kg	U	007,009-010,014-015,017,022-024,040,042
2-Nitrophenol	T16	AR	0.1	mg/kg	U	007,009-010,014-015,017,022-024,040,042
Diethyl phthalate	T16	AR	0.1	mg/kg	U	007,009-010,014-015,017,022-024,040,042
Fluorene	T16	AR	0.1	mg/kg	U	007,009-010,014-015,017,022-024,040,042
4-Chlorophenyl phenylether	T16	AR	0.1	mg/kg	U	007,009-010,014-015,017,022-024,040,042
4-Nitroaniline	T16	AR	0.1	mg/kg	U	007,009-010,014-015,017,022-024,040,042
Azobenzene	T16	AR	0.1	mg/kg	U	007,009-010,014-015,017,022-024,040,042
4-Bromophenyl phenylether	T16	AR	0.1	mg/kg	U	007,009-010,014-015,017,022-024,040,042
Hexachlorobenzene	T16	AR	0.1	mg/kg	U	007,009-010,014-015,017,022-024,040,042
Pentachlorophenol	T16	AR	0.1	mg/kg	U	007,009-010,014-015,017,022-024,040,042
Phenanthrene	T16	AR	0.1	mg/kg	U	007,009-010,014-015,017,022-024,040,042
Anthracene	T16	AR	0.1	mg/kg	U	007,009-010,014-015,017,022-024,040,042
Carbazole	T16	AR	0.1	mg/kg	U	007,009-010,014-015,017,022-024,040,042
Di-n-butylphthalate	T16	AR	0.1	mg/kg	U	007,009-010,014-015,017,022-024,040,042
Fluoranthene	T16	AR	0.1	mg/kg	U	007,009-010,014-015,017,022-024,040,042
Pyrene	T16	AR	0.1	mg/kg	U	007,009-010,014-015,017,022-024,040,042
Butyl benzylphthalate	T16	AR	0.1	mg/kg	U	007,009-010,014-015,017,022-024,040,042
Benzo(a)Anthracene	T16	AR	0.1	mg/kg	U	007,009-010,014-015,017,022-024,040,042
Chrysene	T16	AR	0.1	mg/kg	U	007,009-010,014-015,017,022-024,040,042
Bis (2-ethylhexyl)phthalate	T16	AR	0.1	mg/kg	U	007,009-010,014-015,017,022-024,040,042
Di-n-octylphthalate	T16	AR	0.1	mg/kg	U	007,009-010,014-015,017,022-024,040,042
Benzo(b,k)Fluoranthene	T16	AR	0.1	mg/kg	U	007,009-010,014-015,017,022-024,040,042
Benzo(a)Pyrene	T16	AR	0.1	mg/kg	U	007,009-010,014-015,017,022-024,040,042
Indeno(123-cd)Pyrene	T16	AR	0.1	mg/kg	U	007,009-010,014-015,017,022-024,040,042
Dibenzo(ah)Anthracene	T16	AR	0.1	mg/kg	U	007,009-010,014-015,017,022-024,040,042
Benzo(ghi)Perylene	T16	AR	0.1	mg/kg	U	007,009-010,014-015,017,022-024,040,042
2,4-Dinitrophenol	T16	AR	0.1	mg/kg	N	007,009-010,014-015,017,022-024,040,042
Phenol	T16	10:1	10	µg/l	U	008,014
Phenol	T16	AR	10	µg/l	U	043
Bis (2-chloroethyl) ether	T16	10:1	10	µg/l	U	008,014
Bis (2-chloroethyl) ether	T16	AR	10	µg/l	U	043
2-Chlorophenol	T16	10:1	10	µg/l	U	008,014
2-Chlorophenol	T16	AR	10	µg/l	U	043
1,3-Dichlorobenzene	T16	10:1	10	µg/l	U	008,014
1,3-Dichlorobenzene	T16	AR	10	µg/l	U	043
1,4-Dichlorobenzene	T16	10:1	10	µg/l	U	008,014
1,4-Dichlorobenzene	T16	AR	10	µg/l	U	043
1,2-Dichlorobenzene	T16	10:1	10	µg/l	U	008,014
1,2-Dichlorobenzene	T16	AR	10	µg/l	U	043
Bis (2-chloroisopropyl) ether	T16	10:1	10	µg/l	U	008,014
Bis (2-chloroisopropyl) ether	T16	AR	10	µg/l	U	043
2-methyl phenol	T16	10:1	10	µg/l	U	008,014
2-methyl phenol	T16	AR	10	µg/l	U	043
3/4-Methylphenol	T16	10:1	10	µg/l	U	008,014
3/4-Methylphenol	T16	AR	10	µg/l	U	043
Hexachloroethane	T16	10:1	10	µg/l	U	008,014
Hexachloroethane	T16	AR	10	µg/l	U	043
Nitrobenzene	T16	10:1	10	µg/l	U	008,014
Nitrobenzene	T16	AR	10	µg/l	U	043
Isophorone	T16	10:1	10	µg/l	U	008,014
Isophorone	T16	AR	10	µg/l	U	043
2-Nitrophenol	T16	10:1	10	µg/l	U	008,014
2-Nitrophenol	T16	AR	10	µg/l	U	043
2,4-Dimethylphenol	T16	10:1	10	µg/l	U	008,014
2,4-Dimethylphenol	T16	AR	10	µg/l	U	043
Bis (2-chloroethoxy) methane	T16	10:1	10	µg/l	U	008,014
Bis (2-chloroethoxy) methane	T16	AR	10	µg/l	U	043
2,4-Dichlorophenol	T16	10:1	10	µg/l	U	008,014

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
2,4-Dichlorophenol	T16	AR	10	µg/l	U	043
1,2,4-Trichlorobenzene	T16	10:1	10	µg/l	U	008,014
1,2,4-Trichlorobenzene	T16	AR	10	µg/l	U	043
Naphthalene	T16	10:1	10	µg/l	U	008,014
Naphthalene	T16	AR	10	µg/l	U	043
4-Chloroaniline	T16	10:1	10	µg/l	U	008,014
4-Chloroaniline	T16	AR	10	µg/l	U	043
Hexachlorobutadiene	T16	10:1	10	µg/l	U	008,014
Hexachlorobutadiene	T16	AR	10	µg/l	U	043
4-Chloro-3-methylphenol	T16	10:1	10	µg/l	U	008,014
4-Chloro-3-methylphenol	T16	AR	10	µg/l	U	043
2-Methylnaphthalene	T16	10:1	10	µg/l	U	008,014
2-Methylnaphthalene	T16	AR	10	µg/l	U	043
Hexachlorocyclopentadiene	T16	10:1	10	µg/l	U	008,014
Hexachlorocyclopentadiene	T16	AR	10	µg/l	U	043
2,4,6-Trichlorophenol	T16	10:1	10	µg/l	U	008,014
2,4,6-Trichlorophenol	T16	AR	10	µg/l	U	043
2,4,5-Trichlorophenol	T16	10:1	10	µg/l	U	008,014
2,4,5-Trichlorophenol	T16	AR	10	µg/l	U	043
2-Chloronaphthalene	T16	10:1	10	µg/l	U	008,014
2-Chloronaphthalene	T16	AR	10	µg/l	U	043
2-Nitroaniline	T16	10:1	10	µg/l	U	008,014
2-Nitroaniline	T16	AR	10	µg/l	U	043
Dimethyl phthalate	T16	10:1	10	µg/l	U	008,014
Dimethyl phthalate	T16	AR	10	µg/l	U	043
2,6-Dinitrotoluene	T16	10:1	10	µg/l	U	008,014
2,6-Dinitrotoluene	T16	AR	10	µg/l	U	043
Acenaphthylene	T16	10:1	10	µg/l	U	008,014
Acenaphthylene	T16	AR	10	µg/l	U	043
Acenaphthene	T16	10:1	10	µg/l	U	008,014
Acenaphthene	T16	AR	10	µg/l	U	043
3-Nitroaniline	T16	10:1	10	µg/l	U	008,014
3-Nitroaniline	T16	AR	10	µg/l	U	043
Dibenzofuran	T16	10:1	10	µg/l	U	008,014
Dibenzofuran	T16	AR	10	µg/l	U	043
2,4-Dinitrotoluene	T16	10:1	10	µg/l	U	008,014
2,4-Dinitrotoluene	T16	AR	10	µg/l	U	043
Diethyl phthalate	T16	10:1	10	µg/l	U	008,014
Diethyl phthalate	T16	AR	10	µg/l	U	043
Fluorene	T16	10:1	10	µg/l	U	008,014
Fluorene	T16	AR	10	µg/l	U	043
4-Chlorophenyl phenylether	T16	10:1	10	µg/l	U	008,014
4-Chlorophenyl phenylether	T16	AR	10	µg/l	U	043
4-Nitroaniline	T16	10:1	10	µg/l	U	008,014
4-Nitroaniline	T16	AR	10	µg/l	U	043
Azobenzene	T16	10:1	10	µg/l	U	008,014
Azobenzene	T16	AR	10	µg/l	U	043
4-Bromophenyl phenylether	T16	10:1	10	µg/l	U	008,014
4-Bromophenyl phenylether	T16	AR	10	µg/l	U	043
Hexachlorobenzene	T16	10:1	10	µg/l	U	008,014
Hexachlorobenzene	T16	AR	10	µg/l	U	043
Pentachlorophenol	T16	10:1	10	µg/l	U	008,014
Pentachlorophenol	T16	AR	10	µg/l	U	043
Phenanthrene	T16	10:1	10	µg/l	U	008,014
Phenanthrene	T16	AR	10	µg/l	U	043
Anthracene	T16	10:1	10	µg/l	U	008,014
Anthracene	T16	AR	10	µg/l	U	043
Carbazole	T16	10:1	10	µg/l	U	008,014
Carbazole	T16	AR	10	µg/l	U	043
Di-n-butylphthalate	T16	10:1	10	µg/l	U	008,014
Di-n-butylphthalate	T16	AR	10	µg/l	U	043
Fluoranthene	T16	10:1	10	µg/l	U	008,014
Fluoranthene	T16	AR	10	µg/l	U	043
Pyrene	T16	10:1	10	µg/l	U	008,014
Pyrene	T16	AR	10	µg/l	U	043
Butyl benzylphthalate	T16	10:1	10	µg/l	U	008,014
Butyl benzylphthalate	T16	AR	10	µg/l	U	043
Benzo(a)Anthracene	T16	10:1	10	µg/l	U	008,014
Benzo(a)Anthracene	T16	AR	10	µg/l	U	043
Chrysene	T16	10:1	10	µg/l	U	008,014