

ENVIRONMENTAL IMPACT ASSESSMENT REPORT

VOLUME III APPENDICES

Appendix 10-2 Soil Results (Residential without Plant Uptake
GAC)



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[illegible]

Assessment Criteria :									
☐ Use MRL Values?									
Constituent	Unit	Limit of Detection	Generic Assessment Criteria	Number of Samples	Minimum Value	Maximum Value	Number of Exceedances	Locations of Exceedances	BH314 1956364 2.00m 18/03/2025
ACM Type		N/A	No SSV	61	-	-	3	BH308, 1947970, 0.50m; BH305, 1947974, 0.50m; BH306, 1947976, 0.50m	NAIS
Asbestos Identification		N/A	No SSV	2	-	-	2	BH305, 1947974, 0.50m; BH306, 1947976, 0.50m	
Asbestos by Gravimetry	%	0.001	No SSV	3	<0.001	<0.001	0		
Asbestos By Fibre Counting	%	0.001	No SSV	0	-	-	0		
Total Asbestos	%	0.001	No SSV	3	<0.001	<0.001	0		
Moisture	%	0.020	No SSV	61	5.3	24	0		9.5
Soil Colour		N/A	No SSV	52	-	-	0		Brown
Other Material		N/A	No SSV	52	-	-	0		Stones
Soil Texture		N/A	No SSV	52	-	-	0		Clay
pH at 20C		4.0	No SSV	61	7.6	11.4	0		8.7
Boron (Hot Water Soluble)	mg/kg	0.40	No SSV	61	<0.4	2.9	0		<0.4
Sulphur (Elemental)	mg/kg	1.0	No SSV	61	<1	210	0		1.7
Cyanide (Total)	mg/kg	0.50	No SSV	61	<0.5	2	0		<0.5
Sulphide (Easily Liberatable)	mg/kg	0.50	No SSV	61	2.4	34	0		23
Sulphate (Total)	%	0.010	No SSV	61	0.01	1.7	0		0.059
Arsenic	mg/kg	0.5	40	61	2.7	86	3	TP309, 1941974, 1.00m; TP321, 1955703, 1.50m; BH308, 1955880, 2.50m	2.7
Barium	mg/kg	0.5	1340	61	20	340	0		29
Cadmium	mg/kg	0.10	150	61	<0.1	2	0		0.16
Chromium	mg/kg	0.5	910	61	1.5	58	0		4
Molybdenum	mg/kg	0.5	673	61	<0.5	17	0		0.6
Antimony	mg/kg	2.0	473	61	<2	39	0		<2
Copper	mg/kg	0.50	7100	61	5	1900	0		20
Mercury	mg/kg	0.05	No SSV	61	<0.05	5.6	0		0.06
Nickel	mg/kg	0.50	180	61	4.9	160	0		8.9
Lead	mg/kg	0.50	310	61	9.2	6400	11	BH307, 1947968, 0.50m; BH311, 1954141, 2.5m; BH311, 1954144, 0.5m; BH310, 1954148, 1.5m; TP303, 1955115, 2.0m; TP322, 1955120, 0.5m; TP317, 1955697, 2.00m; TP320, 1955700, 1.00m; TP321, 1955703, 1.50m; BH309, 1955880, 2.50m; TP318, 1956363, 0.50m	31
Selenium	mg/kg	0.25	430	61	<0.25	5	0		<0.25
Zinc	mg/kg	0.50	40000	61	16	2500	0		16
Chromium (Hexavalent)	mg/kg	0.50	21	61	<0.5	<0.5	0		<0.5
Aliphatic VPH >C5-C6	mg/kg	0.05	No SSV	61	<0.05	<0.05	0		<0.05
Aliphatic VPH >C6-C7	mg/kg	0.05	No SSV	61	<0.05	<0.05	0		<0.05
Aliphatic VPH >C7-C8	mg/kg	0.05	No SSV	61	<0.05	<0.05	0		<0.05
Aliphatic VPH >C8-C10	mg/kg	0.05	No SSV	61	<0.05	<0.05	0		<0.05
Total Aliphatic VPH >C5-C10	mg/kg	0.25	No SSV	61	<0.25	<0.25	0		<0.25
Aliphatic EPH >C10-C12 MC	mg/kg	2.00	No SSV	61	<2	6.8	0		<2
Aliphatic EPH >C12-C16 MC	mg/kg	1.00	No SSV	61	<1	11	0		<1
Aliphatic EPH >C16-C21 MC	mg/kg	2.00	No SSV	61	<2	10	0		<2
Aliphatic EPH >C21-C35 MC	mg/kg	3.00	No SSV	61	<3	220	0		36
Aliphatic EPH >C35-C40 MC	mg/kg	10.00	No SSV	61	<10	88	0		10
Total Aliphatic EPH >C10-C35 MC	mg/kg	5.00	No SSV	61	<5	230	0		36
Aromatic VPH >C5-C7	mg/kg	0.05	No SSV	61	<0.05	<0.05	0		<0.05
Aromatic VPH >C7-C8	mg/kg	0.05	No SSV	61	<0.05	<0.05	0		<0.05
Aromatic VPH >C8-C10	mg/kg	0.05	No SSV	61	<0.05	<0.05	0		<0.05
Total Aromatic VPH >C5-C10	mg/kg	0.25	No SSV	61	<0.25	<0.25	0		<0.25
Aromatic EPH >C10-C12 MC	mg/kg	1.00	No SSV	61	<1	4.9	0		<1
Aromatic EPH >C12-C16 MC	mg/kg	1.00	No SSV	61	<1	1200	0		<1
Aromatic EPH >C16-C21 MC	mg/kg	2.00	No SSV	61	<2	14000	0		4.9
Aromatic EPH >C21-C35 MC	mg/kg	2.00	No SSV	61	<2	22000	0		<2
Aromatic EPH >C35-C40 MC	mg/kg	1.00	No SSV	61	<1	1500	0		<1
Total Aromatic EPH >C10-C35 MC	mg/kg	5.00	No SSV	61	<5	37000	0		5.7
Total VPH >C5-C10	mg/kg	0.50	No SSV	61	<0.5	<0.5	0		<0.5
Total EPH >C10-C35 MC	mg/kg	10.00	No SSV	61	<10	37000	0		42
Total Organic Carbon	%	0.20	No SSV	61	<0.2	23	0		4.4
Mineral Oil EPH	mg/kg	10	No SSV	61	<10	260	0		53
Benzene	mg/kg	0.001	0.89	61	<0.00000 1	1	1	BH314, 1956364, 2.00m	1
Toluene	mg/kg	0.001	880	61	<0.00000 1	1	0		1
Ethylbenzene	mg/kg	0.001	83	61	<0.00000 1	1	0		1
m & p-Xylene	mg/kg	0.001	No SSV	61	<0.00000 1	0.001	0		0.001
o-Xylene	mg/kg	0.001	88	61	<0.001	0.0041	0		<0.001
Methyl Tert-Butyl Ether	mg/kg	0.001	33.3	61	<0.001	<0.001	0		<0.001
Naphthalene	mg/kg	0.10	15	61	<0.1	58	1	TP321, 1955702, 0.75m	<0.1
Acenaphthylene	mg/kg	0.10	2900	61	<0.1	3	0		<0.1
Acenaphthene	mg/kg	0.10	3000	61	<0.1	190	0		<0.1
Fluorene	mg/kg	0.10	2800	61	<0.1	200	0		<0.1
Phenanthrene	mg/kg	0.10	No SSV	61	<0.1	1800	0		<0.1
Anthracene	mg/kg	0.10	31000	61	<0.1	550	0		<0.1
Fluoranthene	mg/kg	0.10	1500	61	<0.1	2100	1	TP321, 1955702, 0.75m	<0.1
Pyrene	mg/kg	0.10	3700	61	<0.1	1500	0		<0.1
Benzo[a]anthracene	mg/kg	0.10	BaP Surrogate	61	<0.1	970	0		<0.1
Chrysene	mg/kg	0.10	BaP Surrogate	61	<0.1	880	0		<0.1
Benzo[b]fluoranthene	mg/kg	0.10	BaP Surrogate	61	<0.1	1000	0		<0.1
Benzo[k]fluoranthene	mg/kg	0.10	BaP Surrogate	61	<0.1	430	0		<0.1
Benzo[a]pyrene	mg/kg	0.10	5.3	61	<0.1	870	4	BH311, 1954144, 0.5m; TP303, 1955115, 2.0m; TP321, 1955702, 0.75m; TP321, 1955703, 1.50m	<0.1
Indeno[1,2,3-c,d]Pyrene	mg/kg	0.10	BaP Surrogate	61	<0.1	470	0		<0.1
Dibenz[a,h]Anthracene	mg/kg	0.10	BaP Surrogate	61	<0.1	95	0		<0.1
Benzo[g,h,i]perylene	mg/kg	0.10	BaP Surrogate	61	<0.1	430	0		<0.1
Coronene	mg/kg	0.10	No SSV	61	<0.1	<0.1	0		<0.1
PCB 28	mg/kg	0.010	No SSV	61	<0.01	<0.01	0		<0.01
PCB 52	mg/kg	0.010	No SSV	61	<0.01	<0.01	0		<0.01
PCB 101	mg/kg	0.010	No SSV	61	<0.01	<0.01	0		<0.01
PCB 118	mg/kg	0.010	No SSV	61	<0.01	<0.01	0		<0.01
PCB 153	mg/kg	0.010	No SSV	61	<0.01	<0.01	0		<0.01
PCB 138	mg/kg	0.010	No SSV	61	<0.01	<0.01	0		<0.01
PCB 180	mg/kg	0.010	No SSV	61	<0.01	<0.01	0		<0.01
Tot PCBs Low (7 Congeners)	mg/kg	0.05	0.012	61	<0.05	<0.05	0		<0.05
Total Phenols	mg/kg	0.10	No SSV	61	<0.1	<0.1	0		<0.1