



	Sample	Depth
--	--------	-------

2113775 - Caltex Mosman
EMP summary results(Soil).xls

2113775 - Caltex Mosman
EMP summary results(Soil).xls

Table 1A - Summary Analytical Results (SOIL)
2113775 - Former Caltex Service Station, Military Road Mosman
Remediation and Validation



G:\2113775\Soil Summary Results Tables\EMP summary results(Soil).xls[Table 1B]

Location Description	Sample	Depth	Date	Total Recoverable Hydrocarbons				Total Recoverable hydrocarbons	Benzene	Toluene	Ethyl	Total	Total		B[a]P	Total	Phenol	Arsenic	Cadmium	Chromium			Mercury	Nickel	Zinc	
	ID	(m)	Sampled	C6 - C9	C10 - C14	C15 - C28	C29 - C38											(total)		(total)	Copper	Lead	(Inorganic)			
				mg/kg	mg/kg	mg/kg	mg/kg	C10-C36	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	
	SGS PQL ^(1A)			20.0	20.0	50.0	50.0	N/A	0.5	0.5	0.5	1.5	N/A	0.1	0.05	0.5	N/A	3	0.5	0.5	0.5	2.0	0.05	0.2	0.5	
	HIL (D) ⁽²⁾			65 ⁽⁴⁾				1000 ⁽⁴⁾	1 ⁽⁴⁾	1.4 ⁽⁴⁾	3.1 ⁽⁴⁾	14 ⁽⁴⁾	80	NA	4	NA	34,000	400	80	400	4,000	1,200	60	2,400	28,000	
	PBIL ⁽³⁾			NA				NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	20	3	1	100	600	1	60	200	
Preliminary Validation sampling May 2005 - December 2005																										
Testpit remaining area of western portion of lower forecourt on a grid basis	TP33-0.2	1.0	8-Jul-05	ND	690	130	140	960	ND	ND	ND	ND	ND	ND	ND	0.51	-	3	ND	12	2	13	ND	0.3	6	
	TP34-0.2	0.5	8-Jul-05	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	ND	-	-	-	-	-	-	-	-	-	
	TP35-0.2	0.2	8-Jul-05	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	ND	-	-	-	-	-	-	-	-	-	
	TP36-0.2	0.2	8-Jul-05	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.3	ND	0.1	ND	-	ND	ND	8	19	120	ND	2	91	
	TP37-0.2	0.2	8-Jul-05	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	ND	-	ND	ND	9	8	120	ND	1	29	
Testpiling of lower forecourt, south of the Service Centre	TP38-0.2	0.2	18-Oct-05	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	ND	-	-	-	-	-	-	-	-	-	
	TP38-0.5	0.5	18-Oct-05	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	ND	-	-	-	-	-	-	-	-	-	
	TP39-0.2	0.2	18-Oct-05	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	ND	-	-	-	-	-	-	-	-	-	
	TP40-0.2	0.2	18-Oct-05	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	ND	-	-	-	-	-	-	-	-	-	
	TP41-0.2	0.2	18-Oct-05	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	ND	-	-	-	-	-	-	-	-	-	
Testpiling an area of the lower forecourt located on the western end of the canopy.	TP42-1.0	1.0	18-Oct-05	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	ND	-	-	-	-	-	-	-	-	-	
	TP43-1.0	1.0	18-Oct-05	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	ND	-	-	-	-	-	-	-	-	-	
	TP44-1.0	1.0	18-Oct-05	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	ND	-	-	-	-	-	-	-	-	-	
	TP45-2.0	2.0	18-Oct-05	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	ND	-	-	-	-	-	-	-	-	-	
	TP45-2.5	2.5	18-Oct-05	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	ND	-	-	-	-	-	-	-	-	-	
Validation of the Kerosene Tank Pit located on the western corner of the canopy.	TP46-1.0	1.0	18-Oct-05	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	ND	-	-	-	-	-	-	-	-	-	
	V131	3.0	18-Oct-05	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	ND	-	-	-	-	-	-	-	-	-	
	V132	2.0	18-Oct-05	110	970	ND	ND	970	ND	ND	ND	ND	-	-	-	ND	-	-	-	-	-	-	-	-	-	
	V133	2.0	18-Oct-05	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	ND	-	-	-	-	-	-	-	-	-	
	V134	2.0	18-Oct-05	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	ND	-	-	-	-	-	-	-	-	-	
Validation of all the material excavated onsite prior to validation testpiling up to August 2005. The large stockpile is estimated at a volume of 240m3	V136	2.0	18-Oct-05	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	ND	-	-	-	-	-	-	-	-	-	
	SP10-1	-	18-Oct-05	ND	ND	180	96	276	ND	ND	ND	ND	15.2	ND	1.9	ND	-	3	ND	15	120	480	ND	24	220	
	SP10-3	-	18-Oct-05	ND	ND	270	120	390	ND	ND	ND	ND	6.5	0.2	0.7	ND	-	5	ND	34	61	190	0.1	6	220	
	SP10-5	-	18-Oct-05	ND	ND	70	100	170	ND	ND	ND	ND	3.6	ND	0.4	ND	-	5	ND	24	51	120	0.34	5	190	
	SP10-7	-	18-Oct-05	ND	ND	100	ND	100	ND	ND	ND	ND	5.4	ND	0.5	ND	-	ND	ND	12	6	28	0.32	0.6	24	
Further validation samples taken from the excavation from the eastern hoist within the service centre.	SP10-9	-	18-Oct-05	ND	ND	430	210	640	ND	ND	ND	ND	11	ND	1.0	ND	-	ND	ND	12	57	120	0.06	12	200	
	EnviroLab PQL ^(1A)			25.0	50.0	100.0	100.0	N/A	1.0	1.0	1.0	NA	N/A	0.1	0.05	5.0	-	4	1.0	1.0	1.0	1.0	0.10	1.0	1.0	
	V137	2.1	1-Dec-05	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-	
	V138	0.7	1-Dec-05	ND	ND	900	250	1,150	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-	
	V139	2.5	1-Dec-05	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-	
	V140	1.0	1-Dec-05	100	94	600	180	874	5	28	6	30.4	-	-	-	-	-	-	-	-	-	-	-	-	-	
	V141	1.8	1-Dec-05	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-	
	V142	0.5	1-Dec-05	50	330	280	130	740	ND	7	3.4	24.3	-	-	-	-	-	-	-	-	-	-	-	-	-	
	V143	1.5	1-Dec-05	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-	
	V144	0.9	1-Dec-05	42	260	170	ND	430	ND	1.9	3.8	10.4	-	-	-	-	-	-	-	-	-	-	-	-	-	
	V145	2.5(base)	1-Dec-05	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-	
	V146	0.1	1-Dec-05	180	2700	3000	1700	7,400	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-	
	V147	1.2	1-Dec-05	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-	
	V148	2.0	1-Dec-05	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-	
Validation of the centre of the Service Centre (the area between the two hoists).	V149	1.0	1-Dec-05	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-	
	V150	2.0	1-Dec-05	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-	
	V151	1.0	1-Dec-05	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-	
	V152	1.0	1-Dec-05	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-	
	V153	2.0	1-Dec-05	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-	
Further validation samples taken from excavation along the western hoist within the service centre	V154	0.9	1-Dec-05	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-	
	V155	2.1	1-Dec-05	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-	
	V156	1.0	1-Dec-05	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-	
	V157	2.2	1-Dec-05	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-	
	V159	2.0	1-Dec-05	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-	
Shallow hand augers (due to shallow refusal) taken from the western end of the Service Centre (the shop)	V160	0.8	1-Dec-05	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-	
	V161	2.5	1-Dec-05	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-	
	HA1	0.3	1-Dec-05	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-	
	HA1	0.6	1-Dec-05	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	ND	-	-	-	-	-	-	-	-	-	
	HA2	0.2	1-Dec-05	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	ND	-	-	-	-	-	-	-	-	-	
Further validation samples taken from the Kerosene Tank Pit located on the western corner of the canopy.	HA2	0.5	1-Dec-05	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	ND	-	-	-	-	-	-	-	-	-	
	V162	2.0	1-Dec-05	160	4300	160	ND	4,460	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-	
	V163	2.0	1-Dec-05	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-	
	V164	2.0	1-Dec-05	90	2000	ND	ND	2,000	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-	
	V165																									

Table 1A - Summary Analytical Results (SOIL)
2113775 - Former Caltex Service Station, Military Road Mosman
Remediation and Validation

G:\2113775\Soil Summary Results Tables\EMP summary results\Soil.xls\Table 1B



Location Description	Sample	Depth	Date	Total Recoverable Hydrocarbons				Total Recoverable hydrocarbons	Benzene	Toluene	Ethyl	Total	Total			B[a]P	Total		Arsenic	Cadmium	Chromium						
	ID	(m)	Sampled	Total Recoverable Hydrocarbons				C10-C36	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	(total)	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
				C6 - C9	C10 - C14	C15 - C28	C29 - C36																				
				mg/kg	mg/kg	mg/kg	mg/kg																				
	SGS PQL ⁽¹⁾			20.0	20.0	50.0	50.0	N/A	0.5	0.5	0.5	1.5	N/A	0.1	0.05	0.5	N/A	3	0.5	0.5	0.5	2.0	0.05	0.2	0.5	0.5	
	HIL (D) ⁽²⁾			65 ⁽⁴⁾				1000 ⁽⁴⁾	1 ⁽⁴⁾	1.4 ⁽⁴⁾	3.1 ⁽⁴⁾	14 ⁽⁴⁾	80	NA	4	NA	34,000	400	80	400	4,000	1,200	60	2,400	28,000		
	PBIL ⁽³⁾			NA				NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	20	3	1	100	600	1	60	200		
Preliminary Validation sampling May 2005 - December 2005																											
Quality Control																											
	Labmark PQL ^(1a)			10.0	50.0	100.0	100.0	N/A	0.2	0.5	0.5	NA	-	-	-	0.1	N/A	-	-	-	-	-	-	-	-	-	
	QC1a	(Duplicate of V10)	11-May-05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	ND	ND	-	-	-	-	-	-	-	-	
	QC2	(Duplicate of V20)	11-May-05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	ND	-	-	-	-	-	-	-	-	-	
	QC8	(Duplicate of TP4-0.5)	12-May-05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	ND	-	-	-	-	-	-	-	-	-	
	QC10	(Duplicate of TP12-2.0)	12-May-05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	ND	-	-	-	-	-	-	-	-	-	
	QC12a	(Duplicate of IF1-1)	13-May-05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	ND	ND	-	-	-	-	-	-	-	-	
	QC13	(Duplicate of TP12-1.5E)	13-May-05	ND	91	57	ND	148	ND	ND	ND	ND	ND	-	-	-	ND	-	-	-	-	-	-	-	-	-	
	QC13a	(Duplicate of TP12-1.5E)	13-May-05	ND	120	ND	ND	120	ND	ND	ND	ND	ND	-	-	-	ND	ND	-	-	-	-	-	-	-	-	
	QC15a	(Duplicate of D2-0.2)	13-May-05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	ND	ND	-	-	-	-	-	-	-	-	
	QC20	(Duplicate of V55-3.6)	16-May-05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	ND	-	-	-	-	-	-	-	-	-	
	QC22	(Duplicate of SP6-5)	16-May-05	ND	54	ND	ND	54	ND	ND	ND	ND	1.6	2.1	0.8	ND	ND	-	ND	ND	4	2	16	ND	0.6	51	
	QC23	(Duplicate of TP17-1.0)	24-May-05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	ND	-	-	-	-	-	-	-	-	-	
	QC26a	(Duplicate of TP23-0.5)	24-May-05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	0.1	-	-	-	-	-	-	-	-	-	
	QC27	(Duplicate of TP24-1.0)	24-May-05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	ND	-	-	-	-	-	-	-	-	-	
	QC28a	(Duplicate of V70)	25-May-05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	0.1	-	-	-	-	-	-	-	-	-	
	QC30	(Duplicate of V93/0.3)	25-May-05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	ND	-	-	-	-	-	-	-	-	-	
	QC32	(Duplicate of SP8-3)	25-May-05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	ND	-	-	-	-	-	-	-	-	-	
	QC32a	(Duplicate of SP8-3)	25-May-05	ND	ND	ND	ND	ND	ND	ND	ND	2	-	-	-	0.1	-	-	-	-	-	-	-	-	-	-	
	QC34	(Duplicate of V105-3.6)	20-Jun-05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	ND	-	-	-	-	-	-	-	-	-	
	QC35a	(Duplicate of TP31-2.0)	21-Jun-05	ND	160	ND	ND	160	ND	ND	ND	ND	ND	-	-	-	0.4	-	-	-	-	-	-	-	-	-	
	QC38	(Duplicate of V114-2.0)	06-Jul-05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	ND	-	-	-	-	-	-	-	-	-	
	QC38a	(Duplicate of V114-2.0)	06-Jul-05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	0.1	-	-	-	-	-	-	-	-	-	
	QC40	(Duplicate of SP9-3)	06-Jul-05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	ND	-	-	-	-	-	-	-	-	-	
	QC41	(Duplicate of V130-0.4)	08-Jul-05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	ND	-	-	-	-	-	-	-	-	-	
	QC43	(Duplicate of TP39-0.2)	18-Oct-05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	ND	-	-	-	-	-	-	-	-	-	
	QC45	(Duplicate of V131-3.0)	18-Oct-05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	ND	-	-	-	-	-	-	-	-	-	
	QC47	(Duplicate of SP10-1)	18-Oct-05	ND	ND	340	130	470	ND	ND	ND	ND	ND	-	-	-	ND	-	-	-	-	-	-	-	-	-	
	QC47a	(Duplicate of SP10-1)	18-Oct-05	ND	ND	170	420	590	ND	ND	ND	ND	ND	-	-	-	ND	-	-	-	-	-	-	-	-	-	
	QC48	(Duplicate of V142)	1-Dec-05	ND	110	ND	ND	110	ND	2.4	ND	6.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	QC49	(Duplicate of V154)	1-Dec-05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-	
	QC50a	(Duplicate of TP20 - 0.2H)	1-Dec-05	ND	ND	ND	120	120	ND	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-	

^(1a) PQL = Practical Quantitation Limit
^(1b) PQL = Practical Quantitation Limit for secondary laboratory
⁽²⁾ Health Investigation Level 'D' - Residential with minimal access to soil including high rise apartments (NEPC, 1999).
⁽³⁾ (Provisional) Phytotoxicity-Based Investigation Levels - For sandy loams or soils of a closely similar texture for pH 6-8 (National Environment Protection (Assessment of Contamination) Measure (NEPC, 1999).
⁽⁴⁾ Sensitive Land Use Threshold Concentration, Guidelines for Assessing Service Station Sites (NSW EPA, 1994).

ND Not Detected (concentration below practical quantification limit of testing laboratory)
N/A Not Available (no threshold available)
- Sample not Analysed
Bold Concentration Exceeds Health Based Investigation Level HIL (D)
Bold Concentration Exceeds (Provisional) Phytotoxicity-Based Investigation Levels PBIL

QC101 Sample analysed by secondary another laboratory

G:\21\13775\Soil Summary Results Tables\EMP summary results(Soil.xls)Table 1B

[illegible]

Table 1B - Summary Analytical Results (SOIL)
2113775 - Former Caltex Service Station, Military Road Mosman
Remediation and Validation



G:\2113775\Soil Summary Results Tables\EMP summary results(Soil).xls|Table 1B

Location Description	Sample	Depth	Date	Total Recoverable Hydrocarbons				Total Recoverable hydrocarbons	Benzene	Toluene	Ethyl	Total	Total		B[a]P	Total	Phenol	Arsenic	Cadmium	Chromium	Copper	Lead	Mercury	Nickel	Zinc	
	ID	(m)	Sampled	C6 - C9	C10 - C14	C15 - C28	C29 - C36											(total)		(total)	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	
	EnviroLab PQL ^(1a)			25.0	50.0	100.0	100.0	N/A	1.0	1.0	1.0	NA	N/A	0.1	0.05	5.0	-	4	1.0	1.0	1.0	1.0	0.10	1.0	1.0	
	HIL (D) ⁽²⁾			65 ⁽⁴⁾				1000 ⁽⁴⁾	1 ⁽⁴⁾	1.4 ⁽⁴⁾	3.1 ⁽⁴⁾	14 ⁽⁴⁾	80	NA	4	NA	34,000	400	80	400	4,000	1,200	60	2,400	28,000	
	PBIL ⁽³⁾			NA				NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	20	3	1	100	600	1	60	200	
Additional Validation Sampling August 2006 - October 2006																										
Test pit in southwestern corner of the site.	TP106	1.0	24-Aug-06	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	3.3	-	-	-	
	TP107	2.0	24-Aug-06	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	5	-	-	-	
Soil stockpile from investigation along western boundary	SP36-1		24-Aug-06	ND	ND	ND	ND	ND	ND	ND	ND	0.3	ND	ND	ND	-	-	-	-	-	11	-	-	-		
Backfill sands surrounding former waste oil tank	SP37-1		24-Aug-06	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-	8.9	-	-	-		
Former linework near former waste oil tank	V267		24-Aug-06	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-	18	-	-	-		
	V268		24-Aug-06	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.5	ND	0.1	ND	-	-	-	-	110	-	-	-		
	V269	1.0	27-Sep-06	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-		
	V270	1.0	27-Sep-06	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-		
	V271	1.0	27-Sep-06	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-		
	V272	0.3	27-Sep-06	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.7	ND	0.4	-	-	-	-	-	-	-	-	-	-	
	V273	1.0	27-Sep-06	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-		
	V274	2.0	27-Sep-06	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-		
	V275	2.0	27-Sep-06	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-		
	V277	2.0	27-Sep-06	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-		
V278	1.5	27-Sep-06	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-			
Further validation sample taken from the excavation from the eastern hoist within the service centre.	V276	0.5	27-Sep-06	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-		
Validation samples collected from the investigation trench to the rear of the retail shop and service centre (near 'pit')	V279	2.0	27-Sep-06	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-		
	V280	2.2	27-Sep-06	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-		
Validation samples collected from the UST to the rear of the retail shop and service centre	V281	1.5	27-Sep-06	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-		
	V282	1.0	27-Sep-06	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-		
	V283	1.0	27-Sep-06	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-		
	V284	1.0	27-Sep-06	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-		
	V285	2.2	27-Sep-06	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-		
Validation samples collected from the western boundary fence	V286	0.2	27-Sep-06	ND	ND	170	120	290	ND	ND	ND	ND	43.1	0.1	4.8	-	-	-	-	-	-	-	-	-		
	V287	0.4	27-Sep-06	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-		
	V288	0.2	27-Sep-06	ND	ND	1000	720	1,720	ND	ND	ND	ND	18.1	ND	1.8	-	-	-	-	-	-	-	-	-		
	V289	0.2	27-Sep-06	ND	ND	ND	ND	ND	ND	ND	ND	ND	12.2	ND	1.3	-	-	-	-	-	-	-	-	-		
Further validation sample collected below UST pipe in western end of the site	V290	1.1	27-Sep-06	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-		
	V291	2.2	27-Sep-06	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-		
	V292	2.2	27-Sep-06	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-		
	V293	1.5	27-Sep-06	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-		
	V294	1.1	27-Sep-06	ND	53	ND	ND	53	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-		
V295	1.1	27-Sep-06	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-			
Stockpile from the concrete pit excavation	SP24b - 1		27-Sep-06	ND	ND	1400	620	2,020	ND	ND	ND	ND	0.8	ND	0.2	-	-	31	ND	33	1.3	27	ND	ND	9.8	
	SP24b - 2		27-Sep-06	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.4	ND	ND	-	-	4.6	ND	38	14	49	ND	2.5	93	
	SP24b - 3		27-Sep-06	ND	ND	1500	790	2,290	ND	ND	ND	ND	9.3	0.2	0.8	-	-	19	ND	49	14	33	ND	1.4	23	
	SP24b - 4		27-Sep-06	ND	ND	1500	590	2,090	ND	ND	ND	ND	4.2	0.2	0.3	-	-	7.4	ND	40	28	80	ND	6.5	74	
Soil stockpile from investigation along UST pipe in western end	SP40 - 1		3-Oct-06	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.1	ND	ND	-	-	4.9	ND	9.7	11	70	ND	3.6	310	
	SP40 - 2		3-Oct-06	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.9	ND	0.1	-	-	ND	ND	5.3	9	24	ND	1.6	85	
	SP40 - 3		3-Oct-06	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.29	ND	0.09	-	-	ND	ND	5.6	4.7	34	ND	1.7	73	
	SP40 - 4		3-Oct-06	ND	ND	ND	ND	ND	ND	ND	ND	ND	6.8	ND	0.7	-	-	4.4	ND	16	73	160	0.61	25	1100	
Soil stockpile from investigation along the western boundary fence (near ash layer)	SP41 - 1		3-Oct-06	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.3	ND	0.4	-	-	ND	ND	20	340	1,800	0.11	60	830	
	SP41 - 2		3-Oct-06	ND	ND	100	ND	100	ND	ND	ND	ND	19.2	ND	2.4	-	-	15	1.1	45	240	370	0.25	38	1000	
	SP41 - 3		31-Oct-06	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.3	ND	0.4	-	-	ND	1	18	320	190	ND	39	480	
	SP41 - 4		31-Oct-06	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.9	ND	0.3	-	-	8	1	29	950	290	ND	30	370	
	SP41 - 5		31-Oct-06	ND	ND	ND	ND	ND	ND	ND	ND	ND	12.7	ND	1.5	-	-	6	1.3	47	380	340	0.16	27	670	
	SP41 - 6		31-Oct-06	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.5	ND	0.4	-	-	ND	ND	18	610	540	0.13	26	320	
Soil stockpile investigation trench to the rear of the retail shop and service centre near the 'basement/pit'	SP42 - 1		3-Oct-06	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.16	ND	0.06	-	-	ND	ND	11	18	71	ND	3.6	110	
	SP42 - 2		3-Oct-06	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	16	2.5	36	120	560	0.15	40	620	
	SP42 - 3		3-Oct-06	ND	ND	ND	ND	ND	ND	ND	ND	ND	5	ND	0.5	-	-	ND	1	17	110	350	ND	15	310	
	SP42 - 4		3-Oct-06	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.4	ND	0.2	-	-	ND	ND	15	42	230	ND	7.8	140	

Remediation and Validation



G:\2113775\Soil Summary Results Tables\EMP summary results(Soil).xls\Table 1B

(1a) PQL = Practical Quantitation Limit
(1b) PQL = Practical Quantitation Limit for secondary laboratory
(2) Health Investigation Level 'D' - Residential with minimal access to soil including high rise apartments (NEPC, 1999).
(3) (Provisional) Phytotoxicity-Based Investigation Levels - For sandy loams or soils of a closely similar texture for pH 6-8 (National Environment Protection (Assessment of Contamination) Measure (NEPC, 1999).
(4) Sensitive Land Use Threshold Concentration, Guidelines for Assessing Service Station Sites (NSW EPA, 1994).

ND	Not Detected (concentration below practical quantification limit of testing laboratory)
N/A	Not Available (no threshold available)
-	Sample not Analysed
Bold	Concentration Exceeds Health Based Investigation Level HIL (D)
Bold	Concentration Exceeds (Provisional) Phytotoxicity-Based Investigation Levels PBIL
Bold	Concentration Exceeds (Provisional) Phytotoxicity-Based Investigation Levels PBIL and HIL (D)

QC101 Sample analysed by secondary another laboratory

Table 2 - Groundwater Analytical Results - TPH, BTEX, PAHs, dissolved metals
2113775 - Former Caltex Service Station, Military Road Mosman
Remediation and Validation

G:\2113775\Groundwater Summary Results Tables\EMP Analytical Summary.xls\GW results



Sample ID	Sampling Date	BTEX				Total Recoverable Hydrocarbons					Dissolved Metals								Polycyclic Aromatic Hydrocarbons		
		Benzene µg/L	Toluene µg/L	Ethyl- benzene µg/L	Total Xylenes µg/L	TPH C6-C9 µg/L	TPH C10- C14 µg/L	TPH C15- C28 µg/L	TPH C29- C36 µg/L	TPH C10 - C36 µg/L	Arsenic (III/IV) mg/L	Cadmium mg/L	Chromium mg/L	Copper mg/L	Lead mg/L	Mercury mg/L	Nickel mg/L	Zinc mg/L	Naphthalene µg/L	Benzo(a)pyrene µg/L	Total PAHs µg/L
EnviroLab PQL		1	1	1	3	10	50	100	100	N/A	0.001	0.0001	0.001	0.001	0.001	0.0001	0.001	0.001	1	1	N/A
ALS PQL		1	2	2	4	20	50	100	50	N/A	0.001	0.0001	0.001	0.001	0.001	0.0001	0.001	0.005	1	0.5	N/A
Assessment Threshold ⁽¹⁾		950	180 ⁽²⁾	80 ⁽²⁾	625 ^(1, 2)	N/A	N/A	N/A	N/A	N/A	0.024/0.013	0.0002	0.001	0.0014	0.0034	0.0006	0.011	0.008	16	0.2	N/A
Round 1 May 2006																					
MW1	12-May-06	nd	nd	nd	nd	nd	nd	nd	nd	nd	-	-	-	-	-	-	-	-	-	-	-
MW2	12-May-06	62	nd	3.1	3.3	80	690	180	nd	870	nd	0.0008	nd	0.0026	nd	nd	0.0087	0.048	5.7	nd	5.7
MW3	12-May-06	470	5	5.8	87	510	720	290	nd	1010	-	-	-	-	-	-	-	-	-	-	-
MW4	12-May-06	2.4	nd	nd	1.4	nd	nd	nd	nd	nd	-	-	-	-	-	-	-	-	-	-	-
MW5	12-May-06	13	nd	nd	11.7	17	nd	nd	nd	nd	-	-	-	-	-	-	-	-	-	-	-
MW6	12-May-06	nd	nd	nd	nd	nd	260	3,200	730	4190	-	-	-	-	-	-	-	-	-	-	-
IT1	12-May-06	8.2	nd	nd	1.1	nd	nd	nd	nd	nd	-	-	-	-	-	-	-	-	-	-	-
Duplicates/Triplicates																					
QC1 (Duplicate of MW2)	12-May-06	72	nd	3.2	3.7	95	570	140	nd	710	nd	0.0008	nd	0.0028	nd	nd	0.0089	0.035	4.8	nd	4.8
QC2 (Triplicate of MW2)*	12-May-06	45	nd	3	4	110	1,330	300	nd	1,630	nd	0.0008	nd	0.003	nd	nd	0.009	0.034	6.3	nd	6.3
GHD Quality Control																					
Trip Blank	12-May-2006	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	0.0019	nd	nd	nd	0.0026	-	-	-
Round 2 December 2006																					
MW1	18-Dec-2006	nd	nd	nd	nd	nd	nd	nd	nd	nd	-	-	-	-	-	-	-	-	-	-	-
MW2	18-Dec-2006	21	nd	nd	nd	50	940	280	nd	1,220	-	-	-	-	-	-	-	-	-	-	-
MW3	18-Dec-2006	320	nd	7.4	6.9	460	1,400	550	nd	1,950	0.001	nd	nd	0.0012	nd	nd	0.004	0.019	-	-	-
MW4	18-Dec-2006	nd	nd	nd	nd	nd	nd	nd	nd	nd	-	-	-	-	-	-	-	-	-	-	-
MW5	18-Dec-2006	16	nd	1	nd	37	3,000	59,000	15,000	77,000	-	-	-	-	-	-	-	-	-	-	-
MW6	18-Dec-2006	15	nd	nd	17	400	150	nd	nd	150	-	-	-	-	-	-	-	-	-	-	-
MW7	18-Dec-2006	nd	nd	nd	nd	nd	nd	nd	nd	nd	-	-	-	-	-	-	-	-	-	-	-
MW8	18-Dec-2006	nd	nd	nd	1.2	nd	nd	nd	nd	nd	nd	0.002	nd	0.011	0.0031	nd	nd	0.74	-	-	-
MW9	18-Dec-2006	2	nd	nd	nd	nd	nd	nd	nd	nd	-	-	-	-	-	-	-	-	-	-	-
MW10	18-Dec-2006	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	0.0056	0.0017	nd	0.0089	0.046	-	-	-
IT1	18-Dec-2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Duplicates/Triplicates																					
QC3 (Duplicate of MW3)	18-Dec-2006	590	1.2	8.6	11	800	1,100	260	nd	1,360	0.0013	nd	nd	nd	nd	nd	0.004	0.013	-	-	-
QC4 (Triplicate of MW3)*	18-Dec-2006	288	6	11	6	390	2,660	3,300	160	6,120	0.002	nd	nd	nd	nd	nd	0.003	0.01	-	-	-
GHD Quality Control																					
Trip Spike	18-Dec-2006	64%	89%	87%	84%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trip Blank	18-Dec-2006	nd	nd	nd	nd	nd	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Round 3 January 2007																					
MW5	18-Jan-2007	10	nd	1.4	1.8	23	350	930	180	1,460	-	-	-	-	-	-	-	-	-	-	-
MW6	18-Jan-2007	16	1.9	4.9	39	48	280	nd	nd	280	-	-	-	-	-	-	-	-	-	-	-
MW7	18-Jan-2007	nd	nd	nd	nd	nd	nd	nd	nd	nd	-	-	-	-	-	-	-	-	-	-	-
MW8	18-Jan-2007	nd	nd	1.3	6.1	nd	nd	nd	nd	nd	-	-	-	-	-	-	-	-	-	-	-
Duplicates/Triplicates																					
QC5 (Duplicate of MW6)	18-Jan-2007	16	2	5.4	42	54	190	nd	nd	190	-	-	-	-	-	-	-	-	-	-	-
QC6 (Triplicate of MW6)*	18-Jan-2007	13	nd	6	46	100	420	300	130	850	-	-	-	-	-	-	-	-	-	-	-
QC7 (Duplicate of MW5)	18-Jan-2007	10	nd	1.4	4	24	320	1100	210	1,630	-	-	-	-	-	-	-	-	-	-	-
GHD Quality Control																					
Trip Spike	18-Jan-2007	103%	107%	92%	88%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Round 4 March 2007																					
MW5	15-Mar-2007	8.9	nd	1.1	nd	28	370	1600	310	2,280	-	-	-	-	-	-	-	-	-	-	-
MW6	15-Mar-2007	20	2.8	8.8	58	94	260	370	nd	630	-	-	-	-	-	-	-	-	-	-	-
MW7	15-Mar-2007	nd	nd	nd	nd	nd	nd	nd	nd	nd	-	-	-	-	-	-	-	-	-	-	-
MW8	15-Mar-2007	nd	nd	nd	8.5	14	nd	nd	nd	nd	-	-	-	-	-	-	-	-	-	-	-
Duplicates/Triplicates																					
QC8 (Duplicate of MW5)	15-Mar-2007	8.8	nd	nd	nd	33	370	1800	330	2,500	-	-	-	-	-	-	-	-	-	-	-
QC9 (Triplicate of MW5)*	15-Mar-2007	8	nd	nd	2	nd	670	3200	270	4,140	-	-	-	-	-	-	-	-	-	-	-
QC10 (Duplicate of MW6)	15-Mar-2007	20	2.6	8	52	87	340	410	nd	750	-	-	-	-	-	-	-	-	-	-	-
GHD Quality Control																					
Trip Spike	15-Mar-2007	110%	102%	97%	95%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

N/A	Not applicable/available (no investigation trigger value available).
PQL	Practical Quantification Limit
-	Analysis not requested or insufficient sample
nd	not detected (concentration below practical quantitation limit of testing laboratory).
bold	Concentration exceeds PQL
bold	Concentration Exceeds Investigation Trigger Value.

1 ANZECC (2000) Investigation Trigger Value for 95% Protection Level in Fresh Water

2 ANZECC/ARMCMAZ (2000) Low reliability Trigger Value from Volume 2.

* Sample analysed at ALS



Extracted Table from ERM (2019)

Table 3. Groundwater Gauging Results
516 Military Road, Mosman
Mosman Ausgrid ESA - 0469631

Well ID	Gauging Date	TOC Elevation (mAHD)	Ground Surface Elevation (mAHD)	Total Measured Depth (mbTOC)	Depth to LNAPL (mbTOC)	Depth to Water (mbTOC)	LNAPL Thickness (m)	Corrected Depth to Water (mbTOC)	Corrected Water Elevation (mAHD)	Well Condition/Comments
MW01	30 July 2018	86.880	86.800	4.995	-	3.625	-	3.625	83.255	No odour, clear, colourless
MW02	30 July 2018	86.750	86.680	5.395	-	3.360	-	3.360	83.390	Grey silt, slight odour
MW03	30 July 2018	86.620	86.520	4.330	-	2.205	-	2.205	84.415	No odour, clear, colourless

Notes:

mAHD metres Australian Height Datum
NS not surveyed
mbTOC metres below top of casing
m metres
TOC top of casing
NA not applicable



Extracted Table from ERM (2019)

Table 4. Field Parameters
516 Military Road, Mosman
Mosman Ausgrid ESA - 0469631

Well ID	Purge Date	DO (mg/L)	EC (μScm^{-1})	pH	Eh (mV)	TEMP (°C)	TDS (mg/L)	Comments
MW01	30 July 2018	2.72	1828	5.6	74.0	16.6	1005	No odour, clear, colourless
MW02	30 July 2018	2.08	2182	5.7	94.0	16.8	1200	Turbid, grey, slight odour
MW03	30 July 2018	3.04	151	5.9	65.0	16.2	83	No odour, clear, colourless

Notes:

MW Monitoring Well
 Pre Pre Purging
 DO Dissolved Oxygen
 mg/L milligrams per litre
 EC Electrical Conductivity
 μScm^{-1} microsiemens per centimetre
 Eh Redox Potential
 mV millivolts
 TDS Total Dissolved Solids

Equipment: YSI Water Quality Meter
 Operator: Hannah Barker

Extracted Table from ERM (2019)

[illegible]

Extracted Table from ERM (2019)

[illegible]



Extracted Table from ERM (2019)

Table 7. Sub Slab Soil Vapour Analytical Results
516 Military Road, Mosman
Mosman Ausgrid ESA - 0469631

	PAH			TPH					BTEX					Chlorinated Hydrocarbons								
	Naphthalene	C5- C9	C6-C10	C6-C10 less BTEX (F1)	C10- C14	C10-C16	F2-NAPHTHALENE	Benzene	Ethylbenzene	Toluene	Xylene (m & p)	Xylene (o)	1,1,1-trichloroethane	cis-1,2-dichloroethene	Trichloroethene	Tetrachloroethene	Vinyl chloride					
	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³					
EOL	100	20000	20000	20000	35000	40000	40000	100	220	190	430	220	270	20	5.4	340	5.1					
CRC Care (2011) Intrusive Maint. Worker - Sand 0 to <2 m	880000			180,000,000			NL	760000	NL	NL	NL	NL										
NEPM (1999) HIL D Comm/Ind													230,000	300	80	8000	100					
NEPM (1999) HSL D Comm/Ind - Sand 0 to <1 m	3000			680,000			500,000	4000	1,300,000	480,000	840,000	840,000										
SampleCode	Field_ID	Lab_Report		Sampled_Date-Time																		
EN1807611003	VP01	EN1807611		9/11/2018		<100	<20,000	<20,000	<20,000	<35,000	<40,000	<40,000	<100	<220	<190	<430	<220	<270	<20	<5.4	<340	<5.1
EN1807611001	VP02	EN1807611		9/11/2018		<100	<20,000	<20,000	<20,000	<35,000	<40,000	<40,000	<100	<220	<190	<430	<220	<270	<20	<5.4	<340	<5.1
Statistical Summary																						
Number of Results	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Number of Detects	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration	<100	<20000	<20000	<20000	<35000	<40000	<40000	<100	<220	<190	<430	<220	<270	<20	<5.4	<340	<5.1					
Minimum Detect	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Maximum Concentration	<100	<20000	<20000	<20000	<35000	<40000	<40000	<100	<220	<190	<430	<220	<270	<20	<5.4	<340	<5.1					
Maximum Detect	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Median Concentration	50	10000	10000	10000	17500	20000	20000	50	110	95	215	110	135	10	2.7	170	2.55					
Number of Guideline Exceedances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances (Detects Only)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0



Table 1: Soil HILs

754-SYDEN394033
Ausgrid Mosman

	Physical Parameters				Metals								BTEX				
	Moisture Content	Cation Exchange Capacity (CEC)	Exchangeable Sodium Percent	pH (lab)	Arsenic	Cadmium	Chromium	Copper	Mercury	Nickel	Lead	Zinc	Benzene	Ethylbenzene	Toluene	Xylenes Total	Xylene (o)
	%	meq/100g	%	pH Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL	1	0.1	0.1	0.1	5	1	2	5	0.1	2	5	5	0.2	0.5	0.5	0.5	0.5
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil	-	-	-	-	3,000	900	-	240,000	730	6,000	1,500	400,000	-	-	-	-	-
NEPM 2013 Table 1A(1) HILs Res B Soil	-	-	-	-	500	150	-	30,000	120	1,200	1,200	60,000	-	-	-	-	-
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Sand	-	-	-	-	-	-	-	-	-	-	-	-	3 3 3 3	-	-	230	-
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand	-	-	-	-	-	-	-	-	-	-	-	-	0.5 0.5 0.5 0.5	55	160 220 310 540	40 60 95 170	-
NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Coarse Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Field ID	Date	Lab Report Number																
BH5 0.2-0.6	28 May 2025	ES2516007	12.6	-	-	-	<5	<1	11	9	<0.1	3	33	51	<0.2	<0.5	<0.5	<0.5
BH5 0.7-1.0	28 May 2025	ES2516007	13.1	-	-	-	<5	<1	8	<5	<0.1	<2	27	36	<0.2	<0.5	<0.5	<0.5
BH5 1.7-1.9	28 May 2025	ES2516007	-	0.5	16.2	4.5	-	-	-	-	-	-	-	-	-	-	-	-
BH6 0.2-0.4	28 May 2025	ES2516007	10.1	-	-	-	<5	<1	4	<5	<0.1	<2	5	<5	<0.2	<0.5	<0.5	<0.5
BH6 0.5-0.8	28 May 2025	ES2516007	14.8	-	-	-	<5	<1	14	<5	<0.1	<2	10	<5	<0.2	<0.5	<0.5	<0.5
BH7 0.17-0.5	28 May 2025	ES2516007	15.5	-	-	-	<5	<1	18	24	<0.1	8	129	125	<0.2	<0.5	<0.5	<0.5
BH7 2.0-2.3	28 May 2025	ES2516007	11.6	-	-	-	<5	<1	5	<5	<0.1	<2	10	<5	<0.2	<0.5	<0.5	<0.5
BH8 0.8-0.9	27 May 2025	ES2516007	12.8	-	-	-	<5	<1	8	11	<0.1	2	41	82	<0.2	<0.5	<0.5	<0.5
BH8 0.13-0.23	27 May 2025	ES2516007	13.9	-	-	-	<5	<1	11	23	<0.1	4	67	92	<0.2	<0.5	<0.5	<0.5
BH9 0.15-0.3	27 May 2025	ES2516007	12.4	-	-	-	<5	<1	12	18	<0.1	6	42	63	<0.2	<0.5	<0.5	<0.5
BH10 0.6-0.8	27 May 2025	ES2516007	15.7	-	-	-	<5	<1	29	27	<0.1	12	68	99	<0.2	<0.5	<0.5	<0.5
BH10 0.13-0.23	27 May 2025	ES2516007	15.6	-	-	-	8	<1	10	17	<0.1	3	48	55	<0.2	<0.5	<0.5	<0.5
BH11 0.08-0.4	27 May 2025	ES2516007	12.6	-	-	-	<5	<1	45	53	<0.1	24	56	87	<0.2	<0.5	<0.5	<0.5
BH12 0.4-0.5	27 May 2025	ES2516007	8.8	-	-	-	<5	<1	27	69	<0.1	77	14	43	<0.2	<0.5	<0.5	<0.5
BH12 0.13-0.23	27 May 2025	ES2516007	10.8	-	-	-	<5	<1	20	86	<0.1	85	16	53	<0.2	<0.5	<0.5	<0.5
BH13 0.13-0.23	27 May 2025	ES2516007	13.5	-	-	-	<5	<1	17	30	<0.1	8	49	54	<0.2	<0.5	<0.5	<0.5
BH14 0.4-0.6	27 May 2025	ES2516007	-	5.1	11.1	6.7	-	-	-	-	-	-	-	-	-	-	-	-
BH14 0.6-0.8	27 May 2025	ES2516007	19.9	-	-	-	5	<1	34	<5	<0.1	<2	34	<5	<0.2	<0.5	<0.5	<0.5
BH14 0.13-0.2	27 May 2025	ES2516007	15.8	-	-	-	<5	<1	14	45	<0.1	<2	69	143	<0.2	<0.5	<0.5	<0.5
BH15 0.4-0.5	27 May 2025	ES2516007	14.9	-	-	-	9	<1	31	<5	<0.1	<2	24	<5	<0.2	<0.5	<0.5	<0.5
BH15 0.35-0.4	27 May 2025	ES2516007	-	1.5	<0.2	10.1	-	-	-	-	-	-	-	-	-	-	-	-
BH16 0.4-0.6	27 May 2025	ES2516007	17.6	-	-	-	6	<1	37	7	<0.1	3	53	16	<0.2	<0.5	<0.5	<0.5
BH16 0.23-0.3	27 May 2025	ES2516007	22.5	-	-	-	6	<1	20	74	<0.1	10	228	83	<0.2	<0.5	<0.5	<0.5
BH17 0.4-0.5	27 May 2025	ES2516007	16.4	-	-	-	10	<1	59	61	<0.1	5	84	24	<0.2	<0.5	<0.5	<0.5
BH17 0.13-0.23	27 May 2025	ES2516007	12.3	-	-	-	14	<1	29	821	<0.1	24	245	165	<0.2	<0.5	<0.5	<0.5
MW1 0.4-0.5	28 May 2025	ES2516007	13.7	-	-	-	<5	<1	7	7	<0.1	<2	60	71	<0.2	<0.5	<0.5	<0.5
MW1 0.17-0.27	28 May 2025	ES2516007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW1 1.9-2.1	28 May 2025	ES2516007	13.5	-	-	-	<5	<1	5	5	<0.1	<2	27	66	<0.2	<0.5	<0.5	<0.5
MW1 3.9-4.0	28 May 2025	ES2516007	19.2	-	-	-	<5	<1	7	<5	<0.1	<2	27	76	<0.2	<0.5	<0.5	<0.5
MW1 5.4-5.5	28 May 2025	ES2516007	17.7	-	-	-	<5	<1	3	<5	<0.1	<2	10	<5	<0.2	<0.5	<0.5	<0.5
MW2 0.4-0.5	28 May 2025	ES2516007	18.9	-	-	-	<5	<1	10	5	<0.1	<2	113	108	<0.2	<0.5	<0.5	<0.5
MW2 0.14-0.24	28 May 2025	ES2516007	-	3.4	<0.2	8.6	-	-	-	-	-	-	-	-	-	-	-	-
MW2 1.4-1.5	28 May 2025	ES2516007	13.5	-	-	-	<5	<1	15	<5	<0.1	<2	12	<5	<0.2	<0.5	<0.5	<0.5
MW2 1.9-2.0	28 May 2025	ES2516007	14.1	-	-	-	<5	<1	8	<5	<0.1	<2	10	<5	<0.2	<0.5	<0.5	<0.5
MW3 0.9-1.0	28 May 2025	ES2516007	12.7	-	-	-	5	<1	13	10	<0.1	3	87	119	<0.2	<0.5	<0.5	<0.5
MW3 0.17-0.27	28 May 2025	ES2516007	11.9	-	-	-	<5	<1	10	16	<0.1	4	72	74	<0.2	<0.5	<0.5	<0.5
MW3 1.4-1.5	28 May 2025	ES2516007	15.1	-	-	-	<5	<1	9	<5	<0.1	<2	21	<5	<0.2	<0.5	<0.5	<0.5
MW4 0.9-1.0	28 May 2025	ES2516007	9.4	-	-	-	<5	<1	5	<5	<0.1	<2	<5	<5	<0.2	<0.5	<0.5	<0.5
MW4 0.17-0.27	28 May 2025	ES2516007	13.7	-	-	-	<5	<1	5	<5	<0.1	<2	22	41	<0.2	<0.5	<0.5	<0.5
MW4 1.4-1.5	28 May 2025	ES2516007	13.1	-	-	-	<5	<1	7	<5	<0.1	<2	15	11	<0.2	<0.5	<0.5	<0.5

Environmental Standards
NEPM, NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Coarse Soil
NEPM, NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil



Table 1: Soil HILs

754-SYDEN394033
Ausgrid Mosman

			Multiresidue Pesticides in Soil				Polycyclic Aromatic Hydrocarbons												
	Xylenes (m & p)	Total BTEX	Naphthalene (VOC)	Fenamiphos	Benzo(a)pyrene TEQ (LOR)	Benzo(a)pyrene TEQ calc (Half)	Benzo(a)pyrene TEQ calc (Zero)	Anthracene	Pyrene	Benzo(g,h,i)perylene	Indeno(1,2,3-c,d)pyrene	Benzo(b+j)fluoranthene	Fluoranthene	Benzo(k)fluoranthene	Acenaphthylene	Chrysene	Benzo(a) pyrene	Dibenz(a,h)anthracene	
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	
EQL	0.5	0.2	1	0.05	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil	-	-	-	-	40	40	40	-	-	-	-	-	-	-	-	-	-	-	
NEPM 2013 Table 1A(1) HILs Res B Soil	-	-	-	-	4	4	4	-	-	-	-	-	-	-	-	-	-	-	
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Coarse Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Field ID	Date	Lab Report Number																	
BH5 0.2-0.6	28 May 2025	ES2516007	<0.5	<0.2	<1	<0.05	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
BH5 0.7-1.0	28 May 2025	ES2516007	<0.5	<0.2	<1	<0.05	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
BH5 1.7-1.9	28 May 2025	ES2516007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH6 0.2-0.4	28 May 2025	ES2516007	<0.5	<0.2	<1	<0.05	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
BH6 0.5-0.8	28 May 2025	ES2516007	<0.5	<0.2	<1	<0.05	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
BH7 0.17-0.5	28 May 2025	ES2516007	<0.5	<0.2	<1	<0.05	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
BH7 2.0-2.3	28 May 2025	ES2516007	<0.5	<0.2	<1	<0.05	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
BH8 0.8-0.9	27 May 2025	ES2516007	<0.5	<0.2	<1	<0.05	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
BH8 0.13-0.23	27 May 2025	ES2516007	<0.5	<0.2	<1	<0.05	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
BH9 0.15-0.3	27 May 2025	ES2516007	<0.5	<0.2	<1	<0.05	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
BH10 0.6-0.8	27 May 2025	ES2516007	<0.5	<0.2	<1	<0.05	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
BH10 0.13-0.23	27 May 2025	ES2516007	<0.5	<0.2	<1	<0.05	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
BH11 0.08-0.4	27 May 2025	ES2516007	<0.5	<0.2	<1	<0.05	1.2	0.6	<0.5	<0.5	1.0	<0.5	<0.5	1.0	<0.5	<0.5	<0.5	<0.5	<0.5
BH12 0.4-0.5	27 May 2025	ES2516007	<0.5	<0.2	<1	<0.05	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
BH12 0.13-0.23	27 May 2025	ES2516007	<0.5	<0.2	<1	<0.05	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
BH13 0.13-0.23	27 May 2025	ES2516007	<0.5	<0.2	<1	<0.05	1.4	1.1	0.8	<0.5	1.7	<0.5	<0.5	0.7	2.0	<0.5	<0.5	0.7	<0.5
BH14 0.4-0.6	27 May 2025	ES2516007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH14 0.6-0.8	27 May 2025	ES2516007	<0.5	<0.2	<1	<0.05	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
BH14 0.13-0.2	27 May 2025	ES2516007	<0.5	<0.2	<1	<0.05	6.3	6.3	6.3	0.7	5.4	4.2	2.7	4.9	5.1	2.0	1.4	3.0	4.3
BH15 0.4-0.5	27 May 2025	ES2516007	<0.5	<0.2	<1	<0.05	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
BH15 0.35-0.4	27 May 2025	ES2516007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH16 0.4-0.6	27 May 2025	ES2516007	<0.5	<0.2	<1	<0.05	1.3	1.0	0.7	<0.5	0.8	<0.5	<0.5	0.7	0.7	<0.5	<0.5	<0.5	0.6
BH16 0.23-0.3	27 May 2025	ES2516007	<0.5	<0.2	<1	<0.05	9.6	9.6	9.6	0.9	7.3	4.3	3.1	7.3	6.2	4.2	1.5	5.0	6.7
BH17 0.4-0.5	27 May 2025	ES2516007	<0.5	<0.2	<1	<0.05	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
BH17 0.13-0.23	27 May 2025	ES2516007	<0.5	<0.2	<1	<0.05	4.5	4.2	4.0	0.6	4.6	2.6	1.6	3.5	4.2	1.9	1.0	2.5	3.0
MW1 0.4-0.5	28 May 2025	ES2516007	<0.5	<0.2	<1	<0.05	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MW1 0.17-0.27	28 May 2025	ES2516007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW1 1.9-2.1	28 May 2025	ES2516007	<0.5	<0.2	<1	<0.05	1.2	0.6	<0.5	<0.5	0.8	<0.5	<0.5	<0.5	0.9	<0.5	<0.5	<0.5	<0.5
MW1 3.9-4.0	28 May 2025	ES2516007	<0.5	<0.2	<1	<0.05	1.2	0.6	<0.5	<0.5	2.4	<0.5	<0.5	3.2	<0.5	<0.5	<0.5	<0.5	<0.5
MW1 5.4-5.5	28 May 2025	ES2516007	<0.5	<0.2	<1	<0.05	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MW2 0.4-0.5	28 May 2025	ES2516007	<0.5	<0.2	<1	<0.05	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MW2 0.14-0.24	28 May 2025	ES2516007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW2 1.4-1.5	28 May 2025	ES2516007	<0.5	<0.2	<1	<0.05	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MW2 1.9-2.0	28 May 2025	ES2516007	<0.5	<0.2	<1	<0.05	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MW3 0.9-1.0	28 May 2025	ES2516007	<0.5	<0.2	<1	<0.05	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MW3 0.17-0.27	28 May 2025	ES2516007	<0.5	<0.2	<1	<0.05	1.2	0.6	<0.5	<0.5	0.7	<0.5	<0.5	<0.5	0.7	<0.5	<0.5	<0.5	<0.5
MW3 1.4-1.5	28 May 2025	ES2516007	<0.5	<0.2	<1	<0.05	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MW4 0.9-1.0	28 May 2025	ES2516007	<0.5	<0.2	<1	<0.05	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MW4 0.17-0.27	28 May 2025	ES2516007	<0.5	<0.2	<1	<0.05	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MW4 1.4-1.5	28 May 2025	ES2516007	<0.5	<0.2	<1	<0.05	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5

Environmental Standards
NEPM, NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Coarse Soil
NEPM, NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil



Table 1: Soil HILs

754-SYDEN394033
Ausgrid Mosman

							Total Recoverable Hydrocarbons							Total Petroleum Hydrocarbons				
	Benz(a)anthracene	Acenaphthene	Phenanthrene	Fluorene	PAHs (Sum of total)	Naphthalene	F1 (C6-C10)	F1 (C6-C10) less BTEX	F2 (C10-C16 Hydrocarbons)	F3 (C16-C34 Hydrocarbons)	C34-C40	C10 - C40 (Sum of total)	F2 C10-C16 (minus Naphthalene)	C6 - C9	C10 - C14	C15 - C28	C29-C36	+C10 - C36 (Sum of total)
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL	0.5	0.5	0.5	0.5	0.5	0.5	10	10	50	100	100	50	50	10	50	100	100	50
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil	-	-	-	-	4,000	-	-	-	-	-	-	-	-	-	-	-	-	-
NEPM 2013 Table 1A(1) HILs Res B Soil	-	-	-	-	400	-	-	-	-	-	-	-	-	-	-	-	-	-
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Sand	-	-	-	-	-	-	-	260 370 630	-	-	-	-	-	-	-	-	-	-
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand	-	-	-	-	-	3	-	45 70 110 200	-	-	-	-	110 240 440	-	-	-	-	-
NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Coarse Soil	-	-	-	-	-	-	700	-	1,000	3,500	10,000	-	-	-	-	-	-	-
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil	-	-	-	-	-	-	700	-	1,000	2,500	10,000	-	-	-	-	-	-	-

Field ID	Date	Lab Report Number																		
BH5 0.2-0.6	28 May 2025	ES2516007	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<10	<50	<100	<100	<50	<50	<10	<50	<100	<100	<50
BH5 0.7-1.0	28 May 2025	ES2516007	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<10	230	<100	<100	230	230	<10	230	<100	<100	230
BH5 1.7-1.9	28 May 2025	ES2516007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH6 0.2-0.4	28 May 2025	ES2516007	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<10	<50	<100	<100	<50	<50	<10	<50	<100	<100	<50
BH6 0.5-0.8	28 May 2025	ES2516007	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<10	<50	<100	<100	<50	<50	<10	<50	<100	<100	<50
BH7 0.17-0.5	28 May 2025	ES2516007	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<10	<50	<100	<100	<50	<50	<10	<50	<100	<100	<50
BH7 2.0-2.3	28 May 2025	ES2516007	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<10	<50	<100	<100	<50	<50	<10	<50	<100	<100	<50
BH8 0.8-0.9	27 May 2025	ES2516007	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<10	<50	120	<100	120	<50	<10	<50	<100	<100	<50
BH8 0.13-0.23	27 May 2025	ES2516007	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<10	<50	210	<100	210	<50	<10	<50	150	<100	150
BH9 0.15-0.3	27 May 2025	ES2516007	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<10	<50	<100	<100	<50	<50	<10	<50	<100	<100	<50
BH10 0.6-0.8	27 May 2025	ES2516007	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<10	<50	<100	<100	<50	<50	<10	<50	<100	<100	<50
BH10 0.13-0.23	27 May 2025	ES2516007	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<10	<50	<100	<100	<50	<50	<10	<50	<100	<100	<50
BH11 0.08-0.4	27 May 2025	ES2516007	<0.5	<0.5	<0.5	<0.5	2.0	<0.5	<10	<10	<50	130	<100	130	<50	<10	<50	<100	<100	<50
BH12 0.4-0.5	27 May 2025	ES2516007	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<10	<50	120	<100	120	<50	<10	<50	<100	<100	<50
BH12 0.13-0.23	27 May 2025	ES2516007	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<10	<50	170	<100	170	<50	<10	<50	<100	100	100
BH13 0.13-0.23	27 May 2025	ES2516007	0.7	<0.5	0.9	<0.5	7.3	<0.5	<10	<10	<50	<100	<100	<50	<50	<10	<50	<100	<100	<50
BH14 0.4-0.6	27 May 2025	ES2516007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH14 0.6-0.8	27 May 2025	ES2516007	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<10	<50	<100	<100	<50	<50	<10	<50	<100	<100	<50
BH14 0.13-0.2	27 May 2025	ES2516007	2.9	<0.5	1.6	<0.5	38.9	<0.5	<10	<10	<50	400	<100	400	<50	<10	<50	230	230	460
BH15 0.4-0.5	27 May 2025	ES2516007	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<10	<50	<100	<100	<50	<50	<10	<50	<100	<100	<50
BH15 0.35-0.4	27 May 2025	ES2516007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH16 0.4-0.6	27 May 2025	ES2516007	<0.5	<0.5	<0.5	<0.5	2.8	<0.5	<10	<10	<50	<100	<100	<50	<50	<10	<50	<100	<100	<50
BH16 0.23-0.3	27 May 2025	ES2516007	5.0	<0.5	2.0	<0.5	54.4	<0.5	<10	<10	<50	340	<100	340	<50	<10	<50	220	150	370
BH17 0.4-0.5	27 May 2025	ES2516007	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<10	<50	790	230	1,020	<50	<10	<50	360	550	910
BH17 0.13-0.23	27 May 2025	ES2516007	2.3	<0.5	1.0	<0.5	28.8	<0.5	<10	<10	<50	2,190	600	2,790	<50	<10	<50	1,020	1,460	2,480
MW1 0.4-0.5	28 May 2025	ES2516007	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<10	<50	<100	<100	<50	<50	<10	<50	<100	<100	<50
MW1 0.17-0.27	28 May 2025	ES2516007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW1 1.9-2.1	28 May 2025	ES2516007	<0.5	<0.5	0.6	<0.5	2.3	<0.5	11	11	<50	<100	<100	<50	<50	<10	<50	<100	<100	<50
MW1 3.9-4.0	28 May 2025	ES2516007	<0.5	0.7	2.8	0.8	9.9	<0.5	21	21	<50	<100	<100	<50	<50	10	<50	<100	<100	<50
MW1 5.4-5.5	28 May 2025	ES2516007	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<10	<50	<100	<100	<50	<50	<10	<50	<100	<100	<50
MW2 0.4-0.5	28 May 2025	ES2516007	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<10	<50	<100	<100	<50	<50	<10	<50	<100	<100	<50
MW2 0.14-0.24	28 May 2025	ES2516007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW2 1.4-1.5	28 May 2025	ES2516007	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<10	<50	<100	<100	<50	<50	<10	<50	<100	<100	<50
MW2 1.9-2.0	28 May 2025	ES2516007	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<10	<50	<100	<100	<50	<50	<10	<50	<100	<100	<50
MW3 0.9-1.0	28 May 2025	ES2516007	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<10	<50	<100	<100	<50	<50	<10	<50	<100	<100	<50
MW3 0.17-0.27	28 May 2025	ES2516007	<0.5	<0.5	<0.5	<0.5	1.4	<0.5	<10	<10	<50	<100	<100	<50	<50	<10	<50	<100	<100	<50
MW3 1.4-1.5	28 May 2025	ES2516007	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<10	<50	<100	<100	<50	<50	<10	<50	<100	<100	<50
MW4 0.9-1.0	28 May 2025	ES2516007	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<10	<50	<100	<100	<50	<50	<10	<50	<100	<100	<50
MW4 0.17-0.27	28 May 2025	ES2516007	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<10	<50	<100	<100	<50	<50	<10	<50	<100	<100	<50
MW4 1.4-1.5	28 May 2025	ES2516007	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<10	<50	<100	<100	<50	<50	<10	<50	<100	<100	<50

Environmental Standards
NEPM, NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Coarse Soil
NEPM, NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil



Table 1: Soil HILs

754-SYDEN394033
Ausgrid Mosman

Semivolatile Organic Compounds		Volatile Organic Compounds							Phenols									
Hexachlorobenzene	Dichlorvos	Exchangeable Calcium	Exchangeable Magnesium	Exchangeable Potassium	Exchangeable Sodium	Monocrotophos	Weight of sample		3/4-Methylphenol (m/p-cresol)	2,4-dimethylphenol	Phenol	2,4-dichlorophenol	4-chloro-3-methylphenol	2,6-dichlorophenol	Pentachlorophenol	2,4,6-trichlorophenol	2-nitrophenol	2-methylphenol
	mg/kg	mg/kg	meq/100g	meq/100g	meq/100g	meq/100g	mg/kg	g	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL	0.05	0.05	0.1	0.1	0.1	0.1	0.2	0.01	1	0.5	0.5	0.5	0.5	0.5	2	0.5	0.5	0.5
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil	80	-	-	-	-	-	-	-	-	-	240,000	-	-	-	660	-	-	-
NEPM 2013 Table 1A(1) HILs Res B Soil	15	-	-	-	-	-	-	-	-	-	45,000	-	-	-	130	-	-	-
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Coarse Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Field ID	Date	Lab Report Number																
BH5 0.2-0.6	28 May 2025	ES2516007	<0.05	<0.05	-	-	-	-	<0.2	197	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5
BH5 0.7-1.0	28 May 2025	ES2516007	<0.05	<0.05	-	-	-	-	<0.2	-	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5
BH5 1.7-1.9	28 May 2025	ES2516007	-	-	0.1	0.2	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-
BH6 0.2-0.4	28 May 2025	ES2516007	<0.05	<0.05	-	-	-	-	<0.2	-	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5
BH6 0.5-0.8	28 May 2025	ES2516007	<0.05	<0.05	-	-	-	-	<0.2	-	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5
BH7 0.17-0.5	28 May 2025	ES2516007	<0.05	<0.05	-	-	-	-	<0.2	446	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5
BH7 2.0-2.3	28 May 2025	ES2516007	<0.05	<0.05	-	-	-	-	<0.2	-	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5
BH8 0.8-0.9	27 May 2025	ES2516007	<0.05	<0.05	-	-	-	-	<0.2	-	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5
BH8 0.13-0.23	27 May 2025	ES2516007	<0.05	<0.05	-	-	-	-	<0.2	462	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5
BH9 0.15-0.3	27 May 2025	ES2516007	<0.05	<0.05	-	-	-	-	<0.2	624	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5
BH10 0.6-0.8	27 May 2025	ES2516007	<0.05	<0.05	-	-	-	-	<0.2	446	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5
BH10 0.13-0.23	27 May 2025	ES2516007	<0.05	<0.05	-	-	-	-	<0.2	565	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5
BH11 0.08-0.4	27 May 2025	ES2516007	<0.05	<0.05	-	-	-	-	<0.2	650	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5
BH12 0.4-0.5	27 May 2025	ES2516007	<0.05	<0.05	-	-	-	-	<0.2	650	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5
BH12 0.13-0.23	27 May 2025	ES2516007	<0.05	<0.05	-	-	-	-	<0.2	633	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5
BH13 0.13-0.23	27 May 2025	ES2516007	<0.05	<0.05	-	-	-	-	<0.2	569	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5
BH14 0.4-0.6	27 May 2025	ES2516007	-	-	4.0	0.3	0.2	0.6	-	-	-	-	-	-	-	-	-	-
BH14 0.6-0.8	27 May 2025	ES2516007	<0.05	<0.05	-	-	-	-	<0.2	369	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5
BH14 0.13-0.2	27 May 2025	ES2516007	<0.05	<0.05	-	-	-	-	<0.2	361	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5
BH15 0.4-0.5	27 May 2025	ES2516007	<0.05	<0.05	-	-	-	-	<0.2	-	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5
BH15 0.35-0.4	27 May 2025	ES2516007	-	-	1.5	<0.2	<0.2	<0.2	-	-	-	-	-	-	-	-	-	-
BH16 0.4-0.6	27 May 2025	ES2516007	<0.05	<0.05	-	-	-	-	<0.2	-	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5
BH16 0.23-0.3	27 May 2025	ES2516007	<0.05	<0.05	-	-	-	-	<0.2	373	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5
BH17 0.4-0.5	27 May 2025	ES2516007	<0.05	<0.05	-	-	-	-	<0.2	497	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5
BH17 0.13-0.23	27 May 2025	ES2516007	<0.05	<0.05	-	-	-	-	<0.2	431	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5
MW1 0.4-0.5	28 May 2025	ES2516007	<0.05	<0.05	-	-	-	-	<0.2	-	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5
MW1 0.17-0.27	28 May 2025	ES2516007	-	-	-	-	-	-	-	465	-	-	-	-	-	-	-	-
MW1 1.9-2.1	28 May 2025	ES2516007	<0.05	<0.05	-	-	-	-	<0.2	-	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5
MW1 3.9-4.0	28 May 2025	ES2516007	<0.05	<0.05	-	-	-	-	<0.2	-	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5
MW1 5.4-5.5	28 May 2025	ES2516007	<0.05	<0.05	-	-	-	-	<0.2	-	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5
MW2 0.4-0.5	28 May 2025	ES2516007	<0.05	<0.05	-	-	-	-	<0.2	-	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5
MW2 0.14-0.24	28 May 2025	ES2516007	-	-	3.4	<0.2	<0.2	<0.2	-	581	-	-	-	-	-	-	-	-
MW2 1.4-1.5	28 May 2025	ES2516007	<0.05	<0.05	-	-	-	-	<0.2	-	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5
MW2 1.9-2.0	28 May 2025	ES2516007	<0.05	<0.05	-	-	-	-	<0.2	-	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5
MW3 0.9-1.0	28 May 2025	ES2516007	<0.05	<0.05	-	-	-	-	<0.2	-	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5
MW3 0.17-0.27	28 May 2025	ES2516007	<0.05	<0.05	-	-	-	-	<0.2	573	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5
MW3 1.4-1.5	28 May 2025	ES2516007	<0.05	<0.05	-	-	-	-	<0.2	-	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5
MW4 0.9-1.0	28 May 2025	ES2516007	<0.05	<0.05	-	-	-	-	<0.2	-	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5
MW4 0.17-0.27	28 May 2025	ES2516007	<0.05	<0.05	-	-	-	-	<0.2	674	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5
MW4 1.4-1.5	28 May 2025	ES2516007	<0.05	<0.05	-	-	-	-	<0.2	-	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5

Environmental Standards
NEPM, NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Coarse Soil
NEPM, NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil

[illegible]

Environmental Standards
NEPM, NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Coarse Soil
NEPM, NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil

Field ID	Date	Lab Report Number																			
BH5 0.2-0.6	28 May 2025	ES2516007		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05
BH5 0.7-1.0	28 May 2025	ES2516007		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05
BH5 1.7-1.9	28 May 2025	ES2516007		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH6 0.2-0.4	28 May 2025	ES2516007		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05
BH6 0.5-0.8	28 May 2025	ES2516007		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05
BH7 0.17-0.5	28 May 2025	ES2516007		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05
BH7 2.0-2.3	28 May 2025	ES2516007		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05
BH8 0.8-0.9	27 May 2025	ES2516007		<0.05	0.69	0.89	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	0.20	<0.05	<0.2	<0.05	<0.05	<0.05
BH8 0.13-0.23	27 May 2025	ES2516007		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05
BH9 0.15-0.3	27 May 2025	ES2516007		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05
BH10 0.6-0.8	27 May 2025	ES2516007		<0.05	0.10	0.39	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	0.29	<0.05	<0.2	<0.05	<0.05	<0.05
BH10 0.13-0.23	27 May 2025	ES2516007		<0.05	<0.05	0.11	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	0.11	<0.05	<0.2	<0.05	<0.05	<0.05
BH11 0.08-0.4	27 May 2025	ES2516007		<0.05	<0.05	0.08	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	0.08	<0.05	<0.2	<0.05	<0.05	<0.05
BH12 0.4-0.5	27 May 2025	ES2516007		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05
BH12 0.13-0.23	27 May 2025	ES2516007		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05
BH13 0.13-0.23	27 May 2025	ES2516007		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05
BH14 0.4-0.6	27 May 2025	ES2516007		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH14 0.6-0.8	27 May 2025	ES2516007		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05
BH14 0.13-0.2	27 May 2025	ES2516007		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05
BH15 0.4-0.5	27 May 2025	ES2516007		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05
BH15 0.35-0.4	27 May 2025	ES2516007		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH16 0.4-0.6	27 May 2025	ES2516007		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05
BH16 0.23-0.3	27 May 2025	ES2516007		<0.05	0.06	0.55	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	0.49	<0.05	<0.2	<0.05	<0.05	<0.05
BH17 0.4-0.5	27 May 2025	ES2516007		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05
BH17 0.13-0.23	27 May 2025	ES2516007		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05
MW1 0.4-0.5	28 May 2025	ES2516007		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05
MW1 0.17-0.27	28 May 2025	ES2516007		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW1 1.9-2.1	28 May 2025	ES2516007		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05
MW1 3.9-4.0	28 May 2025	ES2516007		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05
MW1 5.4-5.5	28 May 2025	ES2516007		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05
MW2 0.4-0.5	28 May 2025	ES2516007		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05
MW2 0.14-0.24	28 May 2025	ES2516007		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW2 1.4-1.5	28 May 2025	ES2516007		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05
MW2 1.9-2.0	28 May 2025	ES2516007		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05
MW3 0.9-1.0	28 May 2025	ES2516007		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05
MW3 0.17-0.27	28 May 2025	ES2516007		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05
MW3 1.4-1.5	28 May 2025	ES2516007		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05
MW4 0.9-1.0	28 May 2025	ES2516007		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05
MW4 0.17-0.27	28 May 2025	ES2516007		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05
MW4 1.4-1.5	28 May 2025	ES2516007		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05

Environmental Standards
NEPM, NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Coarse Soil
NEPM, NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil



Table 1: Soil HILs

754-SYDEN394033
Ausgrid Mosman

	DDT+DDE+DDD	Heptachlor epoxide	beta-BHC	Endosulfan	Endrin aldehyde	Endrin ketone
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL	0.05	0.05	0.05	0.05	0.05	0.05
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil	3,600	-	-	2,000	-	-
NEPM 2013 Table 1A(1) HILs Res B Soil	600	-	-	400	-	-
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Sand	-	-	-	-	-	-
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand	-	-	-	-	-	-
NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Coarse Soil	-	-	-	-	-	-
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil	-	-	-	-	-	-

Field ID	Date	Lab Report Number						
BH5 0.2-0.6	28 May 2025	ES2516007	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
BH5 0.7-1.0	28 May 2025	ES2516007	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
BH5 1.7-1.9	28 May 2025	ES2516007	-	-	-	-	-	-
BH6 0.2-0.4	28 May 2025	ES2516007	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
BH6 0.5-0.8	28 May 2025	ES2516007	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
BH7 0.17-0.5	28 May 2025	ES2516007	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
BH7 2.0-2.3	28 May 2025	ES2516007	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
BH8 0.8-0.9	27 May 2025	ES2516007	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
BH8 0.13-0.23	27 May 2025	ES2516007	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
BH9 0.15-0.3	27 May 2025	ES2516007	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
BH10 0.6-0.8	27 May 2025	ES2516007	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
BH10 0.13-0.23	27 May 2025	ES2516007	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
BH11 0.08-0.4	27 May 2025	ES2516007	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
BH12 0.4-0.5	27 May 2025	ES2516007	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
BH12 0.13-0.23	27 May 2025	ES2516007	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
BH13 0.13-0.23	27 May 2025	ES2516007	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
BH14 0.4-0.6	27 May 2025	ES2516007	-	-	-	-	-	-
BH14 0.6-0.8	27 May 2025	ES2516007	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
BH14 0.13-0.2	27 May 2025	ES2516007	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
BH15 0.4-0.5	27 May 2025	ES2516007	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
BH15 0.35-0.4	27 May 2025	ES2516007	-	-	-	-	-	-
BH16 0.4-0.6	27 May 2025	ES2516007	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
BH16 0.23-0.3	27 May 2025	ES2516007	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
BH17 0.4-0.5	27 May 2025	ES2516007	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
BH17 0.13-0.23	27 May 2025	ES2516007	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
MW1 0.4-0.5	28 May 2025	ES2516007	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
MW1 0.17-0.27	28 May 2025	ES2516007	-	-	-	-	-	-
MW1 1.9-2.1	28 May 2025	ES2516007	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
MW1 3.9-4.0	28 May 2025	ES2516007	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
MW1 5.4-5.5	28 May 2025	ES2516007	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
MW2 0.4-0.5	28 May 2025	ES2516007	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
MW2 0.14-0.24	28 May 2025	ES2516007	-	-	-	-	-	-
MW2 1.4-1.5	28 May 2025	ES2516007	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
MW2 1.9-2.0	28 May 2025	ES2516007	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
MW3 0.9-1.0	28 May 2025	ES2516007	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
MW3 0.17-0.27	28 May 2025	ES2516007	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
MW3 1.4-1.5	28 May 2025	ES2516007	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
MW4 0.9-1.0	28 May 2025	ES2516007	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
MW4 0.17-0.27	28 May 2025	ES2516007	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
MW4 1.4-1.5	28 May 2025	ES2516007	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05

Environmental Standards
NEPM, NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Coarse Soil
NEPM, NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil



Table 2: Soil EILs

754-SYDEN394033
Ausgrid Mosman

	Asbestos							Physical Parameters				Metals								
	APPROVED IDENTIFIER:	Description	Asbestos (Trace)	Asbestos Type	Organic Fibre	Synthetic Mineral Fibre	Asbestos fibres	Moisture Content	Cation Exchange Capacity (CEC)	Exchangeable Sodium Percent	pH (lab)	Arsenic	Cadmium	Chromium	Copper	Mercury	Nickel	Lead	Zinc	Benzene
-	-	Fibres	Detect	g/kg	g/kg	g/kg	%	meq/100g	%	pH Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL							0.1	1	0.1	0.1	0.1	5	1	2	5	0.1	2	5	5	0.2
NEPM 2013 Table 1B(5) Generic EIL - Comm/Ind	-	-	-	-	-	-	-	-	-	-	-	160	-	1000	95	-	15	1,800	340	-
NEPM 2013 Table 1B(5) Generic EIL - Urban Res & Public Open Space	-	-	-	-	-	-	-	-	-	-	-	100	-	620	75	-	10	1,100	260	-
NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Fine Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	95
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	65

Field ID	Date	Lab Report Number																				
BH5 0.2-0.6	28 May 2025	ES2516007	1	1	0	1	0	0	0	12.6	-	-	-	<5	<1	11	9	<0.1	3	33	51	<0.2
BH5 0.7-1.0	28 May 2025	ES2516007	-	-	-	-	-	-	-	13.1	-	-	-	<5	<1	8	<5	<0.1	<2	27	36	<0.2
BH5 1.7-1.9	28 May 2025	ES2516007	-	-	-	-	-	-	-	-	0.5	16.2	4.5	-	-	-	-	-	-	-	-	-
BH6 0.2-0.4	28 May 2025	ES2516007	-	-	-	-	-	-	-	10.1	-	-	-	<5	<1	4	<5	<0.1	<2	5	<5	<0.2
BH6 0.5-0.8	28 May 2025	ES2516007	-	-	-	-	-	-	-	14.8	-	-	-	<5	<1	14	<5	<0.1	<2	10	<5	<0.2
BH7 0.17-0.5	28 May 2025	ES2516007	1	1	0	1	0	0	0	15.5	-	-	-	<5	<1	18	24	<0.1	8	129	125	<0.2
BH7 2.0-2.3	28 May 2025	ES2516007	-	-	-	-	-	-	-	11.6	-	-	-	<5	<1	5	<5	<0.1	<2	10	<5	<0.2
BH8 0.8-0.9	27 May 2025	ES2516007	-	-	-	-	-	-	-	12.8	-	-	-	<5	<1	8	11	<0.1	2	41	82	<0.2
BH8 0.13-0.23	27 May 2025	ES2516007	1	1	0	1	0	0	0	13.9	-	-	-	<5	<1	11	23	<0.1	4	67	92	<0.2
BH9 0.15-0.3	27 May 2025	ES2516007	1	1	0	1	0	0	0	12.4	-	-	-	<5	<1	12	18	<0.1	6	42	63	<0.2
BH10 0.6-0.8	27 May 2025	ES2516007	1	1	0	1	0	0	0	15.7	-	-	-	<5	<1	29	27	<0.1	12	68	99	<0.2
BH10 0.13-0.23	27 May 2025	ES2516007	1	1	0	1	0	0	0	15.6	-	-	-	8	<1	10	17	<0.1	3	48	55	<0.2
BH11 0.08-0.4	27 May 2025	ES2516007	1	1	0	1	0	0	0	12.6	-	-	-	<5	<1	45	53	<0.1	24	56	87	<0.2
BH12 0.4-0.5	27 May 2025	ES2516007	1	1	0	1	0	0	0	8.8	-	-	-	<5	<1	27	69	<0.1	77	14	43	<0.2
BH12 0.13-0.23	27 May 2025	ES2516007	1	1	0	1	0	0	0	10.8	-	-	-	<5	<1	20	86	<0.1	85	16	53	<0.2
BH13 0.13-0.23	27 May 2025	ES2516007	1	1	0	1	0	0	0	13.5	-	-	-	<5	<1	17	30	<0.1	8	49	54	<0.2
BH14 0.4-0.6	27 May 2025	ES2516007	-	-	-	-	-	-	-	-	5.1	11.1	6.7	-	-	-	-	-	-	-	-	-
BH14 0.6-0.8	27 May 2025	ES2516007	1	1	0	1	0	0	0	19.9	-	-	-	5	<1	34	<5	<0.1	<2	34	<5	<0.2
BH14 0.13-0.2	27 May 2025	ES2516007	1	1	0	1	0	0	0	15.8	-	-	-	<5	<1	14	45	<0.1	<2	69	143	<0.2
BH15 0.4-0.5	27 May 2025	ES2516007	-	-	-	-	-	-	-	14.9	-	-	-	9	<1	31	<5	<0.1	<2	24	<5	<0.2
BH15 0.35-0.4	27 May 2025	ES2516007	-	-	-	-	-	-	-	-	1.5	<0.2	10.1	-	-	-	-	-	-	-	-	-
BH16 0.4-0.6	27 May 2025	ES2516007	-	-	-	-	-	-	-	17.6	-	-	-	6	<1	37	7	<0.1	3	53	16	<0.2
BH16 0.23-0.3	27 May 2025	ES2516007	1	1	0	1	0	0	0	22.5	-	-	-	6	<1	20	74	<0.1	10	228	83	<0.2
BH17 0.4-0.5	27 May 2025	ES2516007	1	1	0	1	0	0	0	16.4	-	-	-	10	<1	59	61	<0.1	5	84	24	<0.2
BH17 0.13-0.23	27 May 2025	ES2516007	1	1	0	1	0	0	0	12.3	-	-	-	14	<1	29	821	<0.1	24	245	165	<0.2
MW1 0.4-0.5	28 May 2025	ES2516007	-	-	-	-	-	-	-	13.7	-	-	-	<5	<1	7	7	<0.1	<2	60	71	<0.2
MW1 0.17-0.27	28 May 2025	ES2516007	1	1	0	1	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-
MW1 1.9-2.1	28 May 2025	ES2516007	-	-	-	-	-	-	-	13.5	-	-	-	<5	<1	5	5	<0.1	<2	27	66	<0.2
MW1 3.9-4.0	28 May 2025	ES2516007	-	-	-	-	-	-	-	19.2	-	-	-	<5	<1	7	<5	<0.1	<2	27	76	<0.2
MW1 5.4-5.5	28 May 2025	ES2516007	-	-	-	-	-	-	-	17.7	-	-	-	<5	<1	3	<5	<0.1	<2	10	<5	<0.2
MW2 0.4-0.5	28 May 2025	ES2516007	-	-	-	-	-	-	-	18.9	-	-	-	<5	<1	10	5	<0.1	<2	113	108	<0.2
MW2 0.14-0.24	28 May 2025	ES2516007	1	1	0	1	0	0	0	-	3.4	<0.2	8.6	-	-	-	-	-	-	-	-	-
MW2 1.4-1.5	28 May 2025	ES2516007	-	-	-	-	-	-	-	13.5	-	-	-	<5	<1	15	<5	<0.1	<2	12	<5	<0.2
MW2 1.9-2.0	28 May 2025	ES2516007	-	-	-	-	-	-	-	14.1	-	-	-	<5	<1	8	<5	<0.1	<2	10	<5	<0.2
MW3 0.9-1.0	28 May 2025	ES2516007	-	-	-	-	-	-	-	12.7	-	-	-	5	<1	13	10	<0.1	3	87	119	<0.2
MW3 0.17-0.27	28 May 2025	ES2516007	1	1	0	1	0	0	0	11.9	-	-	-	<5	<1	10	16	<0.1	4	72	74	<0.2
MW3 1.4-1.5	28 May 2025	ES2516007	-	-	-	-	-	-	-	15.1	-	-	-	<5	<1	9	<5	<0.1	<2	21	<5	<0.2
MW4 0.9-1.0	28 May 2025	ES2516007	-	-	-	-	-	-	-	9.4	-	-	-	<5	<1	5	<5	<0.1	<2	<5	<5	<0.2
MW4 0.17-0.27	28 May 2025	ES2516007	1	1	0	1	0	0	0	13.7	-	-	-	<5	<1	5	<5	<0.1	<2	22	41	<0.2
MW4 1.4-1.5	28 May 2025	ES2516007	-	-	-	-	-	-	-	13.1	-	-	-	<5	<1	7	<5	<0.1	<2	15	11	<0.2

Statistics																					
Number of Env Standard Exceedances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Env Standard Exceedances (Detects Only)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% of Detects at or above Env Standards	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% of Results Below Env Standards or Non-Detect	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100



Table 2: Soil EILs

754-SYDEN394033
Ausgrid Mosman

	BTEX							Multiresidue Pesticides in Soil	Polycyclic Aromatic Hydrocarb										
	Ethylbenzene	Toluene	Xylenes Total	Xylene (o)	Xylenes (m & p)	Total BTEX	Naphthalene (VOC)	Fenamiphos	Benzo(a)pyrene TEQ (LOR)	Benzo(a)pyrene TEQ calc (Half)	Benzo(a)pyrene TEQ calc (Zero)	Anthracene	Pyrene	Benzo(g,h,i)perylene	Indeno(1,2,3- c,d)pyrene	Benzo(b+j)fluoranthene	Fluoranthene	Benzo(k)fluoranthene	Acenaphthylene
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL	0.5	0.5	0.5	0.5	0.5	0.2	1	0.05	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
NEPM 2013 Table 1B(5) Generic EIL - Comm/Ind	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NEPM 2013 Table 1B(5) Generic EIL - Urban Res & Public Open Space	-	-	-	-	-	-	170	-	-	-	-	-	-	-	-	-	-	-	-
NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Fine Soil	185	135	95	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil	125	105	45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Field ID	Date	Lab Report Number																		
BH5 0.2-0.6	28 May 2025	ES2516007	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<1	<0.05	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
BH5 0.7-1.0	28 May 2025	ES2516007	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<1	<0.05	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
BH5 1.7-1.9	28 May 2025	ES2516007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH6 0.2-0.4	28 May 2025	ES2516007	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<1	<0.05	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
BH6 0.5-0.8	28 May 2025	ES2516007	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<1	<0.05	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
BH7 0.17-0.5	28 May 2025	ES2516007	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<1	<0.05	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
BH7 2.0-2.3	28 May 2025	ES2516007	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<1	<0.05	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
BH8 0.8-0.9	27 May 2025	ES2516007	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<1	<0.05	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
BH8 0.13-0.23	27 May 2025	ES2516007	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<1	<0.05	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
BH9 0.15-0.3	27 May 2025	ES2516007	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<1	<0.05	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
BH10 0.6-0.8	27 May 2025	ES2516007	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<1	<0.05	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
BH10 0.13-0.23	27 May 2025	ES2516007	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<1	<0.05	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
BH11 0.08-0.4	27 May 2025	ES2516007	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<1	<0.05	1.2	0.6	<0.5	<0.5	1.0	<0.5	<0.5	1.0	<0.5	<0.5
BH12 0.4-0.5	27 May 2025	ES2516007	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<1	<0.05	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
BH12 0.13-0.23	27 May 2025	ES2516007	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<1	<0.05	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
BH13 0.13-0.23	27 May 2025	ES2516007	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<1	<0.05	1.4	1.1	0.8	<0.5	1.7	<0.5	<0.5	0.7	2.0	<0.5
BH14 0.4-0.6	27 May 2025	ES2516007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH14 0.6-0.8	27 May 2025	ES2516007	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<1	<0.05	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
BH14 0.13-0.2	27 May 2025	ES2516007	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<1	<0.05	6.3	6.3	6.3	0.7	5.4	4.2	2.7	4.9	5.1	2.0
BH15 0.4-0.5	27 May 2025	ES2516007	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<1	<0.05	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
BH15 0.35-0.4	27 May 2025	ES2516007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH16 0.4-0.6	27 May 2025	ES2516007	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<1	<0.05	1.3	1.0	0.7	<0.5	0.8	<0.5	<0.5	0.7	0.7	<0.5
BH16 0.23-0.3	27 May 2025	ES2516007	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<1	<0.05	9.6	9.6	9.6	0.9	7.3	4.3	3.1	7.3	6.2	4.2
BH17 0.4-0.5	27 May 2025	ES2516007	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<1	<0.05	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
BH17 0.13-0.23	27 May 2025	ES2516007	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<1	<0.05	4.5	4.2	4.0	0.6	4.6	2.6	1.6	3.5	4.2	1.9
MW1 0.4-0.5	28 May 2025	ES2516007	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<1	<0.05	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MW1 0.17-0.27	28 May 2025	ES2516007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW1 1.9-2.1	28 May 2025	ES2516007	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<1	<0.05	1.2	0.6	<0.5	<0.5	0.8	<0.5	<0.5	<0.5	0.9	<0.5
MW1 3.9-4.0	28 May 2025	ES2516007	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<1	<0.05	1.2	0.6	<0.5	<0.5	2.4	<0.5	<0.5	<0.5	3.2	<0.5
MW1 5.4-5.5	28 May 2025	ES2516007	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<1	<0.05	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MW2 0.4-0.5	28 May 2025	ES2516007	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<1	<0.05	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MW2 0.14-0.24	28 May 2025	ES2516007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW2 1.4-1.5	28 May 2025	ES2516007	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<1	<0.05	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MW2 1.9-2.0	28 May 2025	ES2516007	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<1	<0.05	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MW3 0.9-1.0	28 May 2025	ES2516007	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<1	<0.05	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MW3 0.17-0.27	28 May 2025	ES2516007	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<1	<0.05	1.2	0.6	<0.5	<0.5	0.7	<0.5	<0.5	<0.5	0.7	<0.5
MW3 1.4-1.5	28 May 2025	ES2516007	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<1	<0.05	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MW4 0.9-1.0	28 May 2025	ES2516007	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<1	<0.05	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MW4 0.17-0.27	28 May 2025	ES2516007	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<1	<0.05	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MW4 1.4-1.5	28 May 2025	ES2516007	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<1	<0.05	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5

Statistics																				
Number of Env Standard Exceedances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Env Standard Exceedances (Detects Only)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% of Detects at or above Env Standards	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% of Results Below Env Standards or Non-Detect	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100



Table 2: Soil EILs

754-SYDEN394033
Ausgrid Mosman

ons										Total Recoverable Hydrocarbons							Total Petroleum Hydrocarbons			
	Chrysene	Benzo(a) pyrene	Dibenz(a,h)anthracene	Benzo(a)anthracene	Acenaphthene	Phenanthrene	Fluorene	PAHs (Sum of total)	Naphthalene	F1 (C6-C10)	F1 (C6-C10) less BTEX	F2 (C10-C16 Hydrocarbons)	F3 (C16-C34 Hydrocarbons)	C34-C40	C10 - C40 (Sum of total)	F2 C10-C16 (minus Naphthalene)	C6 - C9	C10 - C14	C15 - C28	C29-C36
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	10	10	50	100	100	50	50	10	50	100	100
NEPM 2013 Table 1B(5) Generic EIL - Comm/Ind	-	-	-	-	-	-	-	-	370	-	-	-	-	-	-	-	-	-	-	-
NEPM 2013 Table 1B(5) Generic EIL - Urban Res & Public Open Space	-	-	-	-	-	-	-	-	170	-	-	-	-	-	-	-	-	-	-	-
NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Fine Soil	-	1.4	-	-	-	-	-	-	-	-	215	170	2,500	6,600	-	170	-	-	-	-
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil	-	0.7	-	-	-	-	-	-	-	-	180	-	1,300	5,600	-	120	-	-	-	-

ID	Date	Lab Report Number																				
BH5 0.2-0.6	28 May 2025	ES2516007	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<10	<50	<100	<100	<50	<50	<10	<50	<100	<100
BH5 0.7-1.0	28 May 2025	ES2516007	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<10	230	<100	<100	230	230	<10	230	<100	<100
BH5 1.7-1.9	28 May 2025	ES2516007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH6 0.2-0.4	28 May 2025	ES2516007	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<10	<50	<100	<100	<50	<50	<10	<50	<100	<100
BH6 0.5-0.8	28 May 2025	ES2516007	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<10	<50	<100	<100	<50	<50	<10	<50	<100	<100
BH7 0.17-0.5	28 May 2025	ES2516007	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<10	<50	<100	<100	<50	<50	<10	<50	<100	<100
BH7 2.0-2.3	28 May 2025	ES2516007	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<10	<50	<100	<100	<50	<50	<10	<50	<100	<100
BH8 0.8-0.9	27 May 2025	ES2516007	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<10	<50	120	<100	120	<50	<10	<50	<100	<100
BH8 0.13-0.23	27 May 2025	ES2516007	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<10	<50	210	<100	210	<50	<10	<50	150	<100
BH9 0.15-0.3	27 May 2025	ES2516007	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<10	<50	<100	<100	<50	<50	<10	<50	<100	<100
BH10 0.6-0.8	27 May 2025	ES2516007	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<10	<50	<100	<100	<50	<50	<10	<50	<100	<100
BH10 0.13-0.23	27 May 2025	ES2516007	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<10	<50	<100	<100	<50	<50	<10	<50	<100	<100
BH11 0.08-0.4	27 May 2025	ES2516007	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	2.0	<0.5	<10	<10	<50	130	<100	130	<50	<10	<50	<100	<100
BH12 0.4-0.5	27 May 2025	ES2516007	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<10	<50	120	<100	120	<50	<10	<50	<100	<100
BH12 0.13-0.23	27 May 2025	ES2516007	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<10	<50	170	<100	170	<50	<10	<50	<100	100
BH13 0.13-0.23	27 May 2025	ES2516007	0.6	0.7	<0.5	0.7	<0.5	0.9	<0.5	7.3	<0.5	<10	<10	<50	<100	<100	<50	<50	<10	<50	<100	<100
BH14 0.4-0.6	27 May 2025	ES2516007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH14 0.6-0.8	27 May 2025	ES2516007	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<10	<50	<100	<100	<50	<50	<10	<50	<100	<100
BH14 0.13-0.2	27 May 2025	ES2516007	3.0	4.3	0.7	2.9	<0.5	1.6	<0.5	38.9	<0.5	<10	<10	<50	400	<100	400	<50	<10	<50	230	230
BH15 0.4-0.5	27 May 2025	ES2516007	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<10	<50	<100	<100	<50	<50	<10	<50	<100	<100
BH15 0.35-0.4	27 May 2025	ES2516007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH16 0.4-0.6	27 May 2025	ES2516007	<0.5	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	2.8	<0.5	<10	<10	<50	<100	<100	<50	<50	<10	<50	<100	<100
BH16 0.23-0.3	27 May 2025	ES2516007	5.0	6.7	0.9	5.0	<0.5	2.0	<0.5	54.4	<0.5	<10	<10	<50	340	<100	340	<50	<10	<50	220	150
BH17 0.4-0.5	27 May 2025	ES2516007	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<10	<50	790	230	1,020	<50	<10	<50	360	550
BH17 0.13-0.23	27 May 2025	ES2516007	2.5	3.0	<0.5	2.3	<0.5	1.0	<0.5	28.8	<0.5	<10	<10	<50	2,190	600	2,790	<50	<10	<50	1,020	1,460
MW1 0.4-0.5	28 May 2025	ES2516007	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<10	<50	<100	<100	<50	<50	<10	<50	<100	<100
MW1 0.17-0.27	28 May 2025	ES2516007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW1 1.9-2.1	28 May 2025	ES2516007	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	2.3	<0.5	11	11	<50	<100	<100	<50	<50	<10	<50	<100	<100
MW1 3.9-4.0	28 May 2025	ES2516007	<0.5	<0.5	<0.5	<0.5	0.7	2.8	0.8	9.9	<0.5	21	21	<50	<100	<100	<50	<50	10	<50	<100	<100
MW1 5.4-5.5	28 May 2025	ES2516007	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<10	<50	<100	<100	<50	<50	<10	<50	<100	<100
MW2 0.4-0.5	28 May 2025	ES2516007	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<10	<50	<100	<100	<50	<50	<10	<50	<100	<100
MW2 0.14-0.24	28 May 2025	ES2516007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW2 1.4-1.5	28 May 2025	ES2516007	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<10	<50	<100	<100	<50	<50	<10	<50	<100	<100
MW2 1.9-2.0	28 May 2025	ES2516007	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<10	<50	<100	<100	<50	<50	<10	<50	<100	<100
MW3 0.9-1.0	28 May 2025	ES2516007	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<10	<50	<100	<100	<50	<50	<10	<50	<100	<100
MW3 0.17-0.27	28 May 2025	ES2516007	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.4	<0.5	<10	<10	<50	<100	<100	<50	<50	<10	<50	<100	<100
MW3 1.4-1.5	28 May 2025	ES2516007	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<10	<50	<100	<100	<50	<50	<10	<50	<100	<100
MW4 0.9-1.0	28 May 2025	ES2516007	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<10	<50	<100	<100	<50	<50	<10	<50	<100	<100
MW4 0.17-0.27	28 May 2025	ES2516007	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<10	<50	<100	<100	<50	<50	<10	<50	<100	<100
MW4 1.4-1.5	28 May 2025	ES2516007	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<10	<50	<100	<100	<50	<50	<10	<50	<100	<100

Statistics																					
Number of Env Standard Exceedances	0	3	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	1	0	0	0
Number of Env Standard Exceedances (Detects Only)	0	3	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	1	0	0	0
% of Detects at or above Env Standards	0	9	0	0	0	0	0	0	0	0	0	0	0	3	3	0	0	3	0	0	0
% of Results Below Env Standards or Non-Detect	100	91	100	100	100	100	100	100	100	100	100	100	100	97	97	100	100	97	100	100	100



Table 2: Soil EILs

754-SYDEN394033
Ausgrid Mosman

		Semivolatile Organic Compounds	Volatile Organic Compounds							Phenols									
	+C10 - C36 (Sum of total)	Hexachlorobenzene	Dichlorvos	Exchangeable Calcium	Exchangeable Magnesium	Exchangeable Potassium	Exchangeable Sodium	Monocrotophos	Weight of sample	3/4-Methylphenol (m/p-cresol)	2,4-dimethylphenol	Phenol	2,4-dichlorophenol	4-chloro-3-methylphenol	2,6-dichlorophenol	Pentachlorophenol	2,4,6-trichlorophenol	2-nitrophenol	2-methylphenol
	mg/kg	mg/kg	mg/kg	meq/100g	meq/100g	meq/100g	meq/100g	mg/kg	g	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL	50	0.05	0.05	0.1	0.1	0.1	0.1	0.2	0.01	1	0.5	0.5	0.5	0.5	0.5	2	0.5	0.5	0.5
NEPM 2013 Table 1B(5) Generic EIL - Comm/Ind	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NEPM 2013 Table 1B(5) Generic EIL - Urban Res & Public Open Space	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Fine Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Field ID	Date	Lab Report Number																		
BH5 0.2-0.6	28 May 2025	ES2516007	<50	<0.05	<0.05	-	-	-	-	<0.2	197	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5
BH5 0.7-1.0	28 May 2025	ES2516007	230	<0.05	<0.05	-	-	-	-	<0.2	-	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5
BH5 1.7-1.9	28 May 2025	ES2516007	-	-	-	0.1	0.2	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-
BH6 0.2-0.4	28 May 2025	ES2516007	<50	<0.05	<0.05	-	-	-	-	<0.2	-	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5
BH6 0.5-0.8	28 May 2025	ES2516007	<50	<0.05	<0.05	-	-	-	-	<0.2	-	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5
BH7 0.17-0.5	28 May 2025	ES2516007	<50	<0.05	<0.05	-	-	-	-	<0.2	446	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5
BH7 2.0-2.3	28 May 2025	ES2516007	<50	<0.05	<0.05	-	-	-	-	<0.2	-	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5
BH8 0.8-0.9	27 May 2025	ES2516007	<50	<0.05	<0.05	-	-	-	-	<0.2	-	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5
BH8 0.13-0.23	27 May 2025	ES2516007	150	<0.05	<0.05	-	-	-	-	<0.2	462	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5
BH9 0.15-0.3	27 May 2025	ES2516007	<50	<0.05	<0.05	-	-	-	-	<0.2	624	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5
BH10 0.6-0.8	27 May 2025	ES2516007	<50	<0.05	<0.05	-	-	-	-	<0.2	446	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5
BH10 0.13-0.23	27 May 2025	ES2516007	<50	<0.05	<0.05	-	-	-	-	<0.2	565	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5
BH11 0.08-0.4	27 May 2025	ES2516007	<50	<0.05	<0.05	-	-	-	-	<0.2	650	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5
BH12 0.4-0.5	27 May 2025	ES2516007	<50	<0.05	<0.05	-	-	-	-	<0.2	650	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5
BH12 0.13-0.23	27 May 2025	ES2516007	100	<0.05	<0.05	-	-	-	-	<0.2	633	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5
BH13 0.13-0.23	27 May 2025	ES2516007	<50	<0.05	<0.05	-	-	-	-	<0.2	569	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5
BH14 0.4-0.6	27 May 2025	ES2516007	-	-	-	4.0	0.3	0.2	0.6	-	-	-	-	-	-	-	-	-	-	-
BH14 0.6-0.8	27 May 2025	ES2516007	<50	<0.05	<0.05	-	-	-	-	<0.2	369	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5
BH14 0.13-0.2	27 May 2025	ES2516007	460	<0.05	<0.05	-	-	-	-	<0.2	361	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5
BH15 0.4-0.5	27 May 2025	ES2516007	<50	<0.05	<0.05	-	-	-	-	<0.2	-	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5
BH15 0.35-0.4	27 May 2025	ES2516007	-	-	-	1.5	<0.2	<0.2	<0.2	-	-	-	-	-	-	-	-	-	-	-
BH16 0.4-0.6	27 May 2025	ES2516007	<50	<0.05	<0.05	-	-	-	-	<0.2	-	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5
BH16 0.23-0.3	27 May 2025	ES2516007	370	<0.05	<0.05	-	-	-	-	<0.2	373	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5
BH17 0.4-0.5	27 May 2025	ES2516007	910	<0.05	<0.05	-	-	-	-	<0.2	497	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5
BH17 0.13-0.23	27 May 2025	ES2516007	2,480	<0.05	<0.05	-	-	-	-	<0.2	431	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5
MW1 0.4-0.5	28 May 2025	ES2516007	<50	<0.05	<0.05	-	-	-	-	<0.2	-	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5
MW1 0.17-0.27	28 May 2025	ES2516007	-	-	-	-	-	-	-	-	465	-	-	-	-	-	-	-	-	-
MW1 1.9-2.1	28 May 2025	ES2516007	<50	<0.05	<0.05	-	-	-	-	<0.2	-	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5
MW1 3.9-4.0	28 May 2025	ES2516007	<50	<0.05	<0.05	-	-	-	-	<0.2	-	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5
MW1 5.4-5.5	28 May 2025	ES2516007	<50	<0.05	<0.05	-	-	-	-	<0.2	-	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5
MW2 0.4-0.5	28 May 2025	ES2516007	<50	<0.05	<0.05	-	-	-	-	<0.2	-	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5
MW2 0.14-0.24	28 May 2025	ES2516007	-	-	-	3.4	<0.2	<0.2	<0.2	-	581	-	-	-	-	-	-	-	-	-
MW2 1.4-1.5	28 May 2025	ES2516007	<50	<0.05	<0.05	-	-	-	-	<0.2	-	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5
MW2 1.9-2.0	28 May 2025	ES2516007	<50	<0.05	<0.05	-	-	-	-	<0.2	-	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5
MW3 0.9-1.0	28 May 2025	ES2516007	<50	<0.05	<0.05	-	-	-	-	<0.2	-	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5
MW3 0.17-0.27	28 May 2025	ES2516007	<50	<0.05	<0.05	-	-	-	-	<0.2	573	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5
MW3 1.4-1.5	28 May 2025	ES2516007	<50	<0.05	<0.05	-	-	-	-	<0.2	-	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5
MW4 0.9-1.0	28 May 2025	ES2516007	<50	<0.05	<0.05	-	-	-	-	<0.2	-	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5
MW4 0.17-0.27	28 May 2025	ES2516007	<50	<0.05	<0.05	-	-	-	-	<0.2	674	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5
MW4 1.4-1.5	28 May 2025	ES2516007	<50	<0.05	<0.05	-	-	-	-	<0.2	-	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5

Statistics																				
Number of Env Standard Exceedances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Env Standard Exceedances (Detects Only)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% of Detects at or above Env Standards	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% of Results Below Env Standards or Non-Detect	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100

[illegible][illegible]

[illegible][illegible]

Table 2: Soil EILs



754-SYDEN394033
Ausgrid Mosman

	Endrin aldehyde	Endrin ketone
	mg/kg	mg/kg
EQL	0.05	0.05
NEPM 2013 Table 1B(5) Generic EIL - Comm/Ind	-	-
NEPM 2013 Table 1B(5) Generic EIL - Urban Res & Public Open Space	-	-
NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Fine Soil	-	-
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil	-	-

Field ID	Date	Lab Report Number		
BH5 0.2-0.6	28 May 2025	ES2516007	<0.05	<0.05
BH5 0.7-1.0	28 May 2025	ES2516007	<0.05	<0.05
BH5 1.7-1.9	28 May 2025	ES2516007	-	-
BH6 0.2-0.4	28 May 2025	ES2516007	<0.05	<0.05
BH6 0.5-0.8	28 May 2025	ES2516007	<0.05	<0.05
BH7 0.17-0.5	28 May 2025	ES2516007	<0.05	<0.05
BH7 2.0-2.3	28 May 2025	ES2516007	<0.05	<0.05
BH8 0.8-0.9	27 May 2025	ES2516007	<0.05	<0.05
BH8 0.13-0.23	27 May 2025	ES2516007	<0.05	<0.05
BH9 0.15-0.3	27 May 2025	ES2516007	<0.05	<0.05
BH10 0.6-0.8	27 May 2025	ES2516007	<0.05	<0.05
BH10 0.13-0.23	27 May 2025	ES2516007	<0.05	<0.05
BH11 0.08-0.4	27 May 2025	ES2516007	<0.05	<0.05
BH12 0.4-0.5	27 May 2025	ES2516007	<0.05	<0.05
BH12 0.13-0.23	27 May 2025	ES2516007	<0.05	<0.05
BH13 0.13-0.23	27 May 2025	ES2516007	<0.05	<0.05
BH14 0.4-0.6	27 May 2025	ES2516007	-	-
BH14 0.6-0.8	27 May 2025	ES2516007	<0.05	<0.05
BH14 0.13-0.2	27 May 2025	ES2516007	<0.05	<0.05
BH15 0.4-0.5	27 May 2025	ES2516007	<0.05	<0.05
BH15 0.35-0.4	27 May 2025	ES2516007	-	-
BH16 0.4-0.6	27 May 2025	ES2516007	<0.05	<0.05
BH16 0.23-0.3	27 May 2025	ES2516007	<0.05	<0.05
BH17 0.4-0.5	27 May 2025	ES2516007	<0.05	<0.05
BH17 0.13-0.23	27 May 2025	ES2516007	<0.05	<0.05
MW1 0.4-0.5	28 May 2025	ES2516007	<0.05	<0.05
MW1 0.17-0.27	28 May 2025	ES2516007	-	-
MW1 1.9-2.1	28 May 2025	ES2516007	<0.05	<0.05
MW1 3.9-4.0	28 May 2025	ES2516007	<0.05	<0.05
MW1 5.4-5.5	28 May 2025	ES2516007	<0.05	<0.05
MW2 0.4-0.5	28 May 2025	ES2516007	<0.05	<0.05
MW2 0.14-0.24	28 May 2025	ES2516007	-	-
MW2 1.4-1.5	28 May 2025	ES2516007	<0.05	<0.05
MW2 1.9-2.0	28 May 2025	ES2516007	<0.05	<0.05
MW3 0.9-1.0	28 May 2025	ES2516007	<0.05	<0.05
MW3 0.17-0.27	28 May 2025	ES2516007	<0.05	<0.05
MW3 1.4-1.5	28 May 2025	ES2516007	<0.05	<0.05
MW4 0.9-1.0	28 May 2025	ES2516007	<0.05	<0.05
MW4 0.17-0.27	28 May 2025	ES2516007	<0.05	<0.05
MW4 1.4-1.5	28 May 2025	ES2516007	<0.05	<0.05

Statistics		
Number of Env Standard Exceedances	0	0
Number of Env Standard Exceedances (Detects Only)	0	0
% of Detects at or above Env Standards	0	0
% of Results Below Env Standards or Non-Detect	100	100

Table 3: Preliminary Waste Classification

754-SYDEN394033
Ausgrid Mosman



Asbestos	Physical Parameters						Metals											
	Moisture Content	Cation Exchange Capacity (CEC)	Exchangeable Sodium Percent	pH (after HCL)	pH (lab)	pH (Initial)	Arsenic	Cadmium	Chromium	Copper	Mercury	Nickel	Nickel (filtered)	Lead	Lead (filtered)	Zinc	Benzene	
	COMMENT	meq/100g	%	pH_Units	pH Units	pH_Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/kg	
EQL	-	1	0.1	0.1	0.1	0.1	5	1	2	5	0.1	2	0.1	5	0.1	5	0.2	
NSW 2014 General Solid Waste CT1 (No Leaching)	-	-	-	-	-	-	100	20	-	-	4	40	-	100	-	-	10	
NSW 2014 General Solid Waste SCC1 (with leached)	-	-	-	-	-	-	500	100	-	-	50	1,050	-	1,500	-	-	18	
NSW 2014 General Solid Waste TCLP1 (leached)	-	-	-	-	-	-	-	-	-	-	-	-	2	-	5	-	-	
NSW 2014 Restricted Solid Waste CT2 (No Leaching)	-	-	-	-	-	-	400	80	-	-	16	160	-	400	-	-	40	
NSW 2014 Restricted Solid Waste SCC2 (with leached)	-	-	-	-	-	-	2,000	400	-	-	200	4,200	-	6,000	-	-	72	
NSW 2014 Restricted Solid Waste TCLP2 (leached)	-	-	-	-	-	-	-	-	-	-	-	-	8	-	20	-	-	

Field ID	Borehole	Date	Lab Report Number																
BH5 0.2-0.6	BH5	28 May 2025	ES2516007	ND	12.6	-	-	-	-	-	<5	<1	11	9	<0.1	3	-	33	-
BH5 0.7-1.0	BH5	28 May 2025	ES2516007	-	13.1	-	-	-	-	-	<5	<1	8	<5	<0.1	<2	-	27	-
BH5 1.7-1.9	BH5	28 May 2025	ES2516007	-	-	0.5	16.2	-	4.5	-	-	-	-	-	-	-	-	-	-
BH6 0.2-0.4	BH6	28 May 2025	ES2516007	-	10.1	-	-	-	-	-	<5	<1	4	<5	<0.1	<2	-	5	-
BH6 0.5-0.8	BH6	28 May 2025	ES2516007	-	14.8	-	-	-	-	-	<5	<1	14	<5	<0.1	<2	-	10	-
BH7 0.17-0.5	BH7	28 May 2025	ES2516007	ND	15.5	-	-	-	-	-	<5	<1	18	24	<0.1	8	-	129	-
BH7 2.0-2.3	BH7	28 May 2025	ES2516007	-	11.6	-	-	-	-	-	<5	<1	5	<5	<0.1	<2	-	10	-
BH8 0.8-0.9	BH8	27 May 2025	ES2516007	-	12.8	-	-	-	-	-	<5	<1	8	11	<0.1	2	-	41	-
BH8 0.13-0.23	BH8	27 May 2025	ES2516007	ND	13.9	-	-	-	-	-	<5	<1	11	23	<0.1	4	-	67	-
BH9 0.15-0.3	BH9	27 May 2025	ES2516007	ND	12.4	-	-	-	-	-	<5	<1	12	18	<0.1	6	-	42	-
BH10 0.6-0.8	BH10	27 May 2025	ES2516007	ND	15.7	-	-	-	-	-	<5	<1	29	27	<0.1	12	-	68	-
BH10 0.13-0.23	BH10	27 May 2025	ES2516007	ND	15.6	-	-	-	-	-	8	<1	10	17	<0.1	3	-	48	-
BH11 0.08-0.4	BH11	27 May 2025	ES2516007	ND	12.6	-	-	-	-	-	<5	<1	45	53	<0.1	24	-	56	-
BH12 0.4-0.5	BH12	27 May 2025	ES2516007	ND	8.8	-	-	-	-	-	<5	<1	27	69	<0.1	77	-	14	-
BH12 0.4-0.5	BH12	27 May 2025	ES2517859	-	-	-	-	1.8	-	9.0	-	-	-	-	<0.1	-	-	-	-
BH12 0.13-0.23	BH12	27 May 2025	ES2516007	ND	10.8	-	-	-	-	-	<5	<1	20	86	<0.1	85	-	16	-
BH12 0.13-0.23	BH12	27 May 2025	ES2517859	-	-	-	-	2.0	-	9.3	-	-	-	-	<0.1	-	-	-	-
BH13 0.13-0.23	BH13	27 May 2025	ES2516007	ND	13.5	-	-	-	-	-	<5	<1	17	30	<0.1	8	-	49	-
BH14 0.4-0.6	BH14	27 May 2025	ES2516007	-	-	5.1	11.1	-	6.7	-	-	-	-	-	-	-	-	-	-
BH14 0.6-0.8	BH14	27 May 2025	ES2516007	ND	19.9	-	-	-	-	-	5	<1	34	<5	<0.1	<2	-	34	-
BH14 0.13-0.2	BH14	27 May 2025	ES2516007	ND	15.8	-	-	-	-	-	<5	<1	14	45	<0.1	<2	-	69	-
BH14 0.13-0.2	BH14	27 May 2025	ES2517859	-	-	-	-	1.7	-	9.3	-	-	-	-	-	-	-	-	-
BH15 0.4-0.5	BH15	27 May 2025	ES2516007	-	14.9	-	-	-	-	-	9	<1	31	<5	<0.1	<2	-	24	-
BH15 0.35-0.4	BH15	27 May 2025	ES2516007	-	-	1.5	<0.2	-	10.1	-	-	-	-	-	-	-	-	-	-
BH16 0.4-0.6	BH16	27 May 2025	ES2516007	-	17.6	-	-	-	-	-	6	<1	37	7	<0.1	3	-	53	-
BH16 0.23-0.3	BH16	27 May 2025	ES2516007	ND	22.5	-	-	-	-	-	6	<1	20	74	<0.1	10	-	228	-
BH16 0.23-0.3	BH16	27 May 2025	ES2517859	-	-	-	-	1.8	-	9.4	-	-	-	-	-	-	-	-	-
BH17 0.4-0.5	BH17	27 May 2025	ES2516007	ND	16.4	-	-	-	-	-	10	<1	59	61	<0.1	5	-	84	-
BH17 0.13-0.23	BH17	27 May 2025	ES2516007	ND	12.3	-	-	-	-	-	14	<1	29	821	<0.1	24	-	245	-
BH17 0.13-0.23	BH17	27 May 2025	ES2517859	-	-	-	-	1.8	-	9.3	-	-	-	-	-	-	0.5	-	-
MW1 0.4-0.5	MW1	28 May 2025	ES2516007	-	13.7	-	-	-	-	-	<5	<1	7	7	<0.1	<2	-	60	-
MW1 0.17-0.27	MW1	28 May 2025	ES2516007	D	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW1 1.9-2.1	MW1	28 May 2025	ES2516007	-	13.5	-	-	-	-	-	<5	<1	5	5	<0.1	<2	-	27	-
MW1 3.9-4.0	MW1	28 May 2025	ES2516007	-	19.2	-	-	-	-	-	<5	<1	7	<5	<0.1	<2	-	27	-
MW1 5.4-5.5	MW1	28 May 2025	ES2516007	-	17.7	-	-	-	-	-	<5	<1	3	<5	<0.1	<2	-	10	-
MW2 0.4-0.5	MW2	28 May 2025	ES2516007	-	18.9	-	-	-	-	-	<5	<1	10	5	<0.1	<2	-	113	-
MW2 0.4-0.5	MW2	28 May 2025	ES2517859	-	-	-	-	1.6	-	8.3	-	-	-	-	-	-	0.4	-	-
MW2 0.14-0.24	MW2	28 May 2025	ES2516007	ND	-	3.4	<0.2	-	8.6	-	-	-	-	-	-	-	-	-	-
MW2 1.4-1.5	MW2	28 May 2025	ES2516007	-	13.5	-	-	-	-	-	<5	<1	15	<5	<0.1	<2	-	12	-
MW2 1.9-2.0	MW2	28 May 2025	ES2516007	-	14.1	-	-	-	-	-	<5	<1	8	<5	<0.1	<2	-	10	-
MW3 0.9-1.0	MW3	28 May 2025	ES2516007	-	12.7	-	-	-	-	-	5	<1	13	10	<0.1	3	-	87	-
MW3 0.17-0.27	MW3	28 May 2025	ES2516007	ND	11.9	-	-	-	-	-	<5	<1	10	16	<0.1	4	-	72	-
MW3 1.4-1.5	MW3	28 May 2025	ES2516007	-	15.1	-	-	-	-	-	<5	<1	9	<5	<0.1	<2	-	21	-
MW4 0.9-1.0	MW4	28 May 2025	ES2516007	-	9.4	-	-	-	-	-	<5	<1	5	<5	<0.1	<2	-	<5	-
MW4 0.17-0.27	MW4	28 May 2025	ES2516007	ND	13.7	-	-	-	-	-	<5	<1	5	<5	<0.1	<2	-	22	-
MW4 1.4-1.5	MW4	28 May 2025	ES2516007	-	13.1	-	-	-	-	-	<5	<1	7	<5	<0.1	<2	-	15	-

Statistics																			
Number of Env Standard Exceedances	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	4	0	0	0
Number of Env Standard Exceedances (Detects Only)	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	4	0	0	0
% of Detects at or above Env Standards	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	11	0	0	0
% of Results Below Env Standards or Non-Detect	100	100	100	100	100	100	100	100	100	100	100	100	100	94	100	89	100	100	100

Table 3: Preliminary Waste Classification



754-SYDEN394033
Ausgrid Mosman

	Asbestos	Physical Parameters						Metals										
	COMMENT	Moisture Content	Cation Exchange Capacity (CEC)	Exchangeable Sodium Percent	pH (after HCL)	pH (lab)	pH (Initial)	Arsenic	Cadmium	Chromium	Copper	Mercury	Nickel	Nickel (filtered)	Lead	Lead (filtered)	Zinc	Benzene
-	%	meq/100g	%	pH_Units	pH Units	pH_Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/kg
EQI	1	0.1	0.1	0.1	0.1	0.1	0.1	5	1	2	5	0.1	2	0.1	5	0.1	5	0.2
NSW 2014 General Solid Waste CT1 (No Leaching)	-	-	-	-	-	-	-	100	20	-	-	4	40	-	100	-	-	10
NSW 2014 General Solid Waste SCC1 (with leached)	-	-	-	-	-	-	-	500	100	-	-	50	1,050	-	1,500	-	-	18
NSW 2014 General Solid Waste TCLP1 (leached)	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	5	-	-
NSW 2014 Restricted Solid Waste CT2 (No Leaching)	-	-	-	-	-	-	-	400	80	-	-	16	160	-	400	-	-	40
NSW 2014 Restricted Solid Waste SCC2 (with leached)	-	-	-	-	-	-	-	2,000	400	-	-	200	4,200	-	6,000	-	-	72
NSW 2014 Restricted Solid Waste TCLP2 (leached)	-	-	-	-	-	-	-	-	-	-	-	-	-	8	-	20	-	-
Field ID	Borehole	Date	Lab Report Number															

Environmental Standards
NSW EPA, November 2014, NSW 2014 General Solid Waste CT1 (No Leaching)
NSW EPA, November 2014, NSW 2014 General Solid Waste SCC1 (with leached)
NSW EPA, November 2014, NSW 2014 General Solid Waste TCLP1 (leached)
NSW EPA, November 2014, NSW 2014 Restricted Solid Waste CT2 (No Leaching)
NSW EPA, November 2014, NSW 2014 Restricted Solid Waste SCC2 (with leached)
NSW EPA, November 2014, NSW 2014 Restricted Solid Waste TCLP2 (leached)

Table 3: Preliminary Waste Classification

754-SYDEN394033
Ausgrid Mosman



	BTEX							Multiresidue Pesticides in Soil	Polycyclic Aromatic Hydrocarbons											
	Ethylbenzene	Toluene	Xylenes Total	Xylene (o)	Xylenes (m & p)	Total BTEX	Naphthalene (VOC)		Fenamiphos	Benzo(a)pyrene TEQ (LOR)	Benzo(a)pyrene TEQ calc (Half)	Benzo(a)pyrene TEQ calc (Zero)	Anthracene	Pyrene	Benzo(g,h,i)perylene	Indeno(1,2,3- c,d)pyrene	Benzo(b+j)fluoranthene	Fluoranthene	Benzo(k)fluoranthene	Acenaphthylene
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL	0.5	0.5	0.5	0.5	0.5	0.2	1	0.05	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	
NSW 2014 General Solid Waste CT1 (No Leaching)	600	288	1,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
NSW 2014 General Solid Waste SCC1 (with leached)	1,080	518	1,800	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
NSW 2014 General Solid Waste TCLP1 (leached)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
NSW 2014 Restricted Solid Waste CT2 (No Leaching)	2,400	1,152	4,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
NSW 2014 Restricted Solid Waste SCC2 (with leached)	4,320	2,073	7,200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
NSW 2014 Restricted Solid Waste TCLP2 (leached)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Field ID	Borehole	Date	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<1	<0.05	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
BH5 0.2-0.6	BH5	28 May 2025	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<1	<0.05	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
BH5 0.7-1.0	BH5	28 May 2025	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<1	<0.05	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
BH5 1.7-1.9	BH5	28 May 2025	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH6 0.2-0.4	BH6	28 May 2025	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<1	<0.05	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
BH6 0.5-0.8	BH6	28 May 2025	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<1	<0.05	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
BH7 0.17-0.5	BH7	28 May 2025	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<1	<0.05	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
BH7 2.0-2.3	BH7	28 May 2025	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<1	<0.05	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
BH8 0.8-0.9	BH8	27 May 2025	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<1	<0.05	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
BH8 0.13-0.23	BH8	27 May 2025	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<1	<0.05	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
BH9 0.15-0.3	BH9	27 May 2025	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<1	<0.05	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
BH10 0.6-0.8	BH10	27 May 2025	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<1	<0.05	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
BH10 0.13-0.23	BH10	27 May 2025	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<1	<0.05	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
BH11 0.08-0.4	BH11	27 May 2025	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<1	<0.05	1.2	0.6	<0.5	<0.5	1.0	<0.5	<0.5	<0.5	1.0	<0.5	<0.5
BH12 0.4-0.5	BH12	27 May 2025	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<1	<0.05	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
BH12 0.4-0.5	BH12	27 May 2025	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH12 0.13-0.23	BH12	27 May 2025	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<1	<0.05	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
BH12 0.13-0.23	BH12	27 May 2025	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH13 0.13-0.23	BH13	27 May 2025	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<1	<0.05	1.4	1.1	0.8	<0.5	1.7	<0.5	<0.5	0.7	2.0	<0.5	<0.5
BH14 0.4-0.6	BH14	27 May 2025	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH14 0.6-0.8	BH14	27 May 2025	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<1	<0.05	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
BH14 0.13-0.2	BH14	27 May 2025	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<1	<0.05	6.3	6.3	6.3	0.7	5.4	4.2	2.7	4.9	5.1	2.0	1.4
BH14 0.13-0.2	BH14	27 May 2025	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH15 0.4-0.5	BH15	27 May 2025	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<1	<0.05	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
BH15 0.35-0.4	BH15	27 May 2025	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH16 0.4-0.6	BH16	27 May 2025	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<1	<0.05	1.3	1.0	0.7	<0.5	0.8	<0.5	<0.5	0.7	0.7	<0.5	<0.5
BH16 0.23-0.3	BH16	27 May 2025	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<1	<0.05	9.6	9.6	9.6	0.9	7.3	4.3	3.1	7.3	6.2	4.2	1.5
BH16 0.23-0.3	BH16	27 May 2025	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH17 0.4-0.5	BH17	27 May 2025	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<1	<0.05	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
BH17 0.13-0.23	BH17	27 May 2025	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<1	<0.05	4.5	4.2	4.0	0.6	4.6	2.6	1.6	3.5	4.2	1.9	1.0
BH17 0.13-0.23	BH17	27 May 2025	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW1 0.4-0.5	MW1	28 May 2025	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<1	<0.05	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MW1 0.17-0.27	MW1	28 May 2025	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW1 1.9-2.1	MW1	28 May 2025	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<1	<0.05	1.2	0.6	<0.5	<0.5	0.8	<0.5	<0.5	<0.5	0.9	<0.5	<0.5
MW1 3.9-4.0	MW1	28 May 2025	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<1	<0.05	1.2	0.6	<0.5	<0.5	2.4	<0.5	<0.5	<0.5	3.2	<0.5	<0.5
MW1 5.4-5.5	MW1	28 May 2025	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<1	<0.05	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MW2 0.4-0.5	MW2	28 May 2025	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<1	<0.05	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MW2 0.4-0.5	MW2	28 May 2025	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW2 0.14-0.24	MW2	28 May 2025	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW2 1.4-1.5	MW2	28 May 2025	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<1	<0.05	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MW2 1.9-2.0	MW2	28 May 2025	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<1	<0.05	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MW3 0.9-1.0	MW3	28 May 2025	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<1	<0.05	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MW3 0.17-0.27	MW3	28 May 2025	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<1	<0.05	1.2	0.6	<0.5	<0.5	0.7	<0.5	<0.5	<0.5	0.7	<0.5	<0.5
MW3 1.4-1.5	MW3	28 May 2025	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<1	<0.05	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MW4 0.9-1.0	MW4	28 May 2025	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<1	<0.05	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MW4 0.17-0.27	MW4	28 May 2025	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<1	<0.05	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MW4 1.4-1.5	MW4	28 May 2025	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<1	<0.05	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5

Statistics																				
Number of Env Standard Exceedances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Env Standard Exceedances (Detects Only)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% of Detects at or above Env Standards	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% of Results Below Env Standards or Non-Detect	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100

Table 3: Preliminary Waste Classification

754-SYDEN394033
Ausgrid Mosman



BTEX								Multiresidue Pesticides in Soil	Polycyclic Aromatic Hydrocarbons											
Ethylbenzene	Toluene	Xylenes Total	Xylene (o)	Xylenes (m & p)	Total BTEX	Naphthalene (VOC)	Fenamiphos	Benzo(a)pyrene TEQ (LOR)	Benzo(a)pyrene TEQ calc (Half)	Benzo(a)pyrene TEQ calc (Zero)	Anthracene	Pyrene	Benzo(g,h,i)perylene	Indeno(1,2,3-c,d)pyrene	Benzo(e)fluoranthene	Fluoranthene	Benzo(k)fluoranthene	Acenaphthylene		
mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	
EQL	0.5	0.5	0.5	0.5	0.5	0.2	1	0.05	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	
NSW 2014 General Solid Waste CT1 (No Leaching)	600	288	1,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
NSW 2014 General Solid Waste SCC1 (with leached)	1,080	518	1,800	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
NSW 2014 General Solid Waste TCLP1 (leached)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
NSW 2014 Restricted Solid Waste CT2 (No Leaching)	2,400	1,152	4,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
NSW 2014 Restricted Solid Waste SCC2 (with leached)	4,320	2,073	7,200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
NSW 2014 Restricted Solid Waste TCLP2 (leached)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Field ID	Borehole	Date																		

Environmental Standards
NSW EPA, November 2014, NSW 2014 General Solid Waste CT1 (No Leaching)
NSW EPA, November 2014, NSW 2014 General Solid Waste SCC1 (with leached)
NSW EPA, November 2014, NSW 2014 General Solid Waste TCLP1 (leached)
NSW EPA, November 2014, NSW 2014 Restricted Solid Waste CT2 (No Leaching)
NSW EPA, November 2014, NSW 2014 Restricted Solid Waste SCC2 (with leached)
NSW EPA, November 2014, NSW 2014 Restricted Solid Waste TCLP2 (leached)

Table 3: Preliminary Waste Classification

754-SYDEN394033
Ausgrid Mosman



	rocarbons										Total Recoverable Hydrocarbons							Total Petroleum Hydrocarbons		
	Chrysene	Benzo(a) pyrene		Dibenz(a,h)anthracene	Benz(a)anthracene	Acenaphthene	Phenanthrene	Fluorene	PAHs (Sum of total)	Naphthalene	F1 (C6-C10)	F1 (C6-C10) less BTEX	F2 (C10-C16 Hydrocarbons)	F3 (C16-C34 Hydrocarbons)	C34-C40	C10 - C40 (Sum of total)	F2 C10-C16 (minus Naphthalene)	C6 - C9	C10 - C14	C15 - C28
	mg/kg	mg/L	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL	0.5	0.0005	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	10	10	50	100	100	50	50	10	50	100
NSW 2014 General Solid Waste CT1 (No Leaching)	-	-	0.8	-	-	-	-	-	200	-	-	-	-	-	-	-	-	650	-	-
NSW 2014 General Solid Waste SCC1 (with leached)	-	-	10	-	-	-	-	-	200	-	-	-	-	-	-	-	-	6,500	-	-
NSW 2014 General Solid Waste TCLP1 (leached)	-	0.04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NSW 2014 Restricted Solid Waste CT2 (No Leaching)	-	-	3.2	-	-	-	-	-	800	-	-	-	-	-	-	-	-	2,600	-	-
NSW 2014 Restricted Solid Waste SCC2 (with leached)	-	-	23	-	-	-	-	-	800	-	-	-	-	-	-	-	-	2,600	-	-
NSW 2014 Restricted Solid Waste TCLP2 (leached)	-	0.16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Field ID	Borehole	Date																				
BH5 0.2-0.6	BH5	28 May 2025	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<10	<50	<100	<100	<50	<50	<10	<50	<100
BH5 0.7-1.0	BH5	28 May 2025	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<10	230	<100	<100	230	230	<10	230	<100
BH5 1.7-1.9	BH5	28 May 2025	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH6 0.2-0.4	BH6	28 May 2025	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<10	<50	<100	<100	<50	<50	<10	<50	<100
BH6 0.5-0.8	BH6	28 May 2025	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<10	<50	<100	<100	<50	<50	<10	<50	<100
BH7 0.17-0.5	BH7	28 May 2025	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<10	<50	<100	<100	<50	<50	<10	<50	<100
BH7 2.0-2.3	BH7	28 May 2025	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<10	<50	<100	<100	<50	<50	<10	<50	<100
BH8 0.8-0.9	BH8	27 May 2025	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<10	<50	120	<100	120	<50	<10	<50	<100
BH8 0.13-0.23	BH8	27 May 2025	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<10	<50	210	<100	210	<50	<10	<50	150
BH9 0.15-0.3	BH9	27 May 2025	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<10	<50	<100	<100	<50	<50	<10	<50	<100
BH10 0.6-0.8	BH10	27 May 2025	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<10	<50	<100	<100	<50	<50	<10	<50	<100
BH10 0.13-0.23	BH10	27 May 2025	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<10	<50	<100	<100	<50	<50	<10	<50	<100
BH11 0.08-0.4	BH11	27 May 2025	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	2.0	<0.5	<10	<10	<50	130	<100	130	<50	<10	<50	<100
BH12 0.4-0.5	BH12	27 May 2025	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<10	<50	120	<100	120	<50	<10	<50	<100
BH12 0.4-0.5	BH12	27 May 2025	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH12 0.13-0.23	BH12	27 May 2025	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<10	<50	170	<100	170	<50	<10	<50	<100
BH12 0.13-0.23	BH12	27 May 2025	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH13 0.13-0.23	BH13	27 May 2025	0.6	-	0.7	<0.5	0.7	<0.5	0.9	<0.5	7.3	<0.5	<10	<10	<50	<100	<100	<50	<50	<10	<50	<100
BH14 0.4-0.6	BH14	27 May 2025	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH14 0.6-0.8	BH14	27 May 2025	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<10	<50	<100	<100	<50	<50	<10	<50	<100
BH14 0.13-0.2	BH14	27 May 2025	3.0	-	4.3	0.7	2.9	<0.5	1.6	<0.5	38.9	<0.5	<10	<10	<50	400	<100	400	<50	<10	<50	230
BH14 0.13-0.2	BH14	27 May 2025	-	<0.0005	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH15 0.4-0.5	BH15	27 May 2025	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<10	<50	<100	<100	<50	<50	<10	<50	<100
BH15 0.35-0.4	BH15	27 May 2025	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH16 0.4-0.6	BH16	27 May 2025	<0.5	-	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	2.8	<0.5	<10	<10	<50	<100	<100	<50	<50	<10	<50	<100
BH16 0.23-0.3	BH16	27 May 2025	5.0	-	6.7	0.9	5.0	<0.5	2.0	<0.5	54.4	<0.5	<10	<10	<50	340	<100	340	<50	<10	<50	220
BH16 0.23-0.3	BH16	27 May 2025	-	<0.0005	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH17 0.4-0.5	BH17	27 May 2025	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<10	<50	790	230	1,020	<50	<10	<50	360
BH17 0.13-0.23	BH17	27 May 2025	2.5	-	3.0	<0.5	2.3	<0.5	1.0	<0.5	28.8	<0.5	<10	<10	<50	2,190	600	2,790	<50	<10	<50	1,020
BH17 0.13-0.23	BH17	27 May 2025	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW1 0.4-0.5	MW1	28 May 2025	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<10	<50	<100	<100	<50	<50	<10	<50	<100
MW1 0.17-0.27	MW1	28 May 2025	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW1 1.9-2.1	MW1	28 May 2025	<0.5	-	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	2.3	<0.5	11	11	<50	<100	<100	<50	<50	<10	<50	<100
MW1 3.9-4.0	MW1	28 May 2025	<0.5	-	<0.5	<0.5	<0.5	0.7	2.8	<0.5	9.9	<0.5	21	21	<50	<100	<100	<50	<50	10	<50	<100
MW1 5.4-5.5	MW1	28 May 2025	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<10	<50	<100	<100	<50	<50	<10	<50	<100
MW2 0.4-0.5	MW2	28 May 2025	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<10	<50	<100	<100	<50	<50	<10	<50	<100
MW2 0.4-0.5	MW2	28 May 2025	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW2 0.14-0.24	MW2	28 May 2025	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW2 1.4-1.5	MW2	28 May 2025	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<10	<50	<100	<100	<50	<50	<10	<50	<100
MW2 1.9-2.0	MW2	28 May 2025	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<10	<50	<100	<100	<50	<50	<10	<50	<100
MW3 0.9-1.0	MW3	28 May 2025	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<10	<50	<100	<100	<50	<50	<10	<50	<100
MW3 0.17-0.27	MW3	28 May 2025	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.4	<0.5	<10	<10	<50	<100	<100	<50	<50	<10	<50	<100
MW3 1.4-1.5	MW3	28 May 2025	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<10	<50	<100	<100	<50	<50	<10	<50	<100
MW4 0.9-1.0	MW4	28 May 2025	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<10	<50	<100	<100	<50	<50	<10	<50	<100
MW4 0.17-0.27	MW4	28 May 2025	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<10	<50	<100	<100	<50	<50	<10	<50	<100
MW4 1.4-1.5	MW4	28 May 2025	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<10	<50	<100	<100	<50	<50	<10	<50	<100

Statistics																					
Number of Env Standard Exceedances	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Env Standard Exceedances (Detects Only)	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% of Detects at or above Env Standards	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% of Results Below Env Standards or Non-Detect	100	100	91	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100

Table 3: Preliminary Waste Classification



754-SYDEN394033
Ausgrid Mosman

rocarbons											Total Recoverable Hydrocarbons							Total Petroleum Hydrocarbons		
Chrysene	Benzo(a)pyrene	Dibenz(a,h)anthracene	Benz(a)anthracene	Acenaphthene	Phenanthrene	Fluorene	PAHs (Sum of total)	Naphthalene	F1 (C6-C10)	F1 (C6-C10) less BTEX	F2 (C10-C16 Hydrocarbons)	F3 (C16-C34 Hydrocarbons)	C34-C40	C10 - C40 (Sum of total)	F2 C10-C16 (minus Naphthalene)	C6 - C9	C10 - C14	C15 - C28		
mg/kg	mg/L	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	
EQL	0.5	0.0005	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	10	10	50	100	100	50	50	10	50	100
NSW 2014 General Solid Waste CT1 (No Leaching)	-	-	0.8	-	-	-	-	-	200	-	-	-	-	-	-	-	650	-	-	
NSW 2014 General Solid Waste SCC1 (with leached)	-	-	10	-	-	-	-	-	200	-	-	-	-	-	-	-	6,500	-	-	
NSW 2014 General Solid Waste TCLP1 (leached)	-	0.04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
NSW 2014 Restricted Solid Waste CT2 (No Leaching)	-	-	3.2	-	-	-	-	-	800	-	-	-	-	-	-	-	2,600	-	-	
NSW 2014 Restricted Solid Waste SCC2 (with leached)	-	-	23	-	-	-	-	-	800	-	-	-	-	-	-	-	2,600	-	-	
NSW 2014 Restricted Solid Waste TCLP2 (leached)	-	0.16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Field ID	Borehole	Date																		

Environmental Standards
NSW EPA, November 2014, NSW 2014 General Solid Waste CT1 (No Leaching)
NSW EPA, November 2014, NSW 2014 General Solid Waste SCC1 (with leached)
NSW EPA, November 2014, NSW 2014 General Solid Waste TCLP1 (leached)
NSW EPA, November 2014, NSW 2014 Restricted Solid Waste CT2 (No Leaching)
NSW EPA, November 2014, NSW 2014 Restricted Solid Waste SCC2 (with leached)
NSW EPA, November 2014, NSW 2014 Restricted Solid Waste TCLP2 (leached)



Extracted from Coffey (2025b)

Table 3: Preliminary Waste Classification

754-SYDEN394033
Ausgrid Mosman

	Hydrocarbons		Semivolatile Organic Compounds	Volatile Organic Compounds									Phenols						
	C29-C36	+C10 - C36 (Sum of total)	Hexachlorobenzene	Dichlorvos	Exchangeable Calcium	Exchangeable Magnesium	Exchangeable Potassium	Exchangeable Sodium	Monocrotophos	pH (Final)	TCLP Fluid	weight of sample	3/4-Methylphenol (m/p-cresol)	2,4-dimethylphenol	Phenol	2,4-dichlorophenol	4-chloro-3-methylphenol	2,6-dichlorophenol	Pentachlorophenol
	mg/kg	mg/kg	mg/kg	mg/kg	meq/100g	meq/100g	meq/100g	meq/100g	mg/kg	pH Unit	mg/kg	g	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL	100	50	0.05	0.05	0.1	0.1	0.1	0.1	0.2	0.1	1	0.01	1	0.5	0.5	0.5	0.5	0.5	2
NSW 2014 General Solid Waste CT1 (No Leaching)	-	10,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NSW 2014 General Solid Waste SCC1 (with leached)	-	10,000	-	-	-	-	-	-	-	-	-	-	-	-	518	-	-	-	-
NSW 2014 General Solid Waste TCLP1 (leached)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NSW 2014 Restricted Solid Waste CT2 (No Leaching)	-	40,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NSW 2014 Restricted Solid Waste SCC2 (with leached)	-	40,000	-	-	-	-	-	-	-	-	-	-	-	-	2,073	-	-	-	-
NSW 2014 Restricted Solid Waste TCLP2 (leached)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Field ID	Borehole	Date																	
BH5 0.2-0.6	BH5	28 May 2025	<100	<50	<0.05	<0.05	-	-	-	-	<0.2	-	-	197	<1	<0.5	<0.5	<0.5	<0.5
BH5 0.7-1.0	BH5	28 May 2025	<100	230	<0.05	<0.05	-	-	-	-	<0.2	-	-	-	<1	<0.5	<0.5	<0.5	<0.5
BH5 1.7-1.9	BH5	28 May 2025	-	-	-	-	0.1	0.2	<0.1	<0.1	-	-	-	-	-	-	-	-	-
BH6 0.2-0.4	BH6	28 May 2025	<100	<50	<0.05	<0.05	-	-	-	-	<0.2	-	-	-	<1	<0.5	<0.5	<0.5	<0.5
BH6 0.5-0.8	BH6	28 May 2025	<100	<50	<0.05	<0.05	-	-	-	-	<0.2	-	-	-	<1	<0.5	<0.5	<0.5	<0.5
BH7 0.17-0.5	BH7	28 May 2025	<100	<50	<0.05	<0.05	-	-	-	-	<0.2	-	-	446	<1	<0.5	<0.5	<0.5	<0.5
BH7 2.0-2.3	BH7	28 May 2025	<100	<50	<0.05	<0.05	-	-	-	-	<0.2	-	-	-	<1	<0.5	<0.5	<0.5	<0.5
BH8 0.8-0.9	BH8	27 May 2025	<100	<50	<0.05	<0.05	-	-	-	-	<0.2	-	-	-	<1	<0.5	<0.5	<0.5	<0.5
BH8 0.13-0.23	BH8	27 May 2025	<100	150	<0.05	<0.05	-	-	-	-	<0.2	-	-	462	<1	<0.5	<0.5	<0.5	<0.5
BH9 0.15-0.3	BH9	27 May 2025	<100	<50	<0.05	<0.05	-	-	-	-	<0.2	-	-	624	<1	<0.5	<0.5	<0.5	<0.5
BH10 0.6-0.8	BH10	27 May 2025	<100	<50	<0.05	<0.05	-	-	-	-	<0.2	-	-	446	<1	<0.5	<0.5	<0.5	<0.5
BH10 0.13-0.23	BH10	27 May 2025	<100	<50	<0.05	<0.05	-	-	-	-	<0.2	-	-	565	<1	<0.5	<0.5	<0.5	<0.5
BH11 0.08-0.4	BH11	27 May 2025	<100	<50	<0.05	<0.05	-	-	-	-	<0.2	-	-	650	<1	<0.5	<0.5	<0.5	<0.5
BH12 0.4-0.5	BH12	27 May 2025	<100	<50	<0.05	<0.05	-	-	-	-	<0.2	-	-	650	<1	<0.5	<0.5	<0.5	<0.5
BH12 0.4-0.5	BH12	27 May 2025	-	-	-	-	-	-	-	-	5.0	1	-	-	-	-	-	-	-
BH12 0.13-0.23	BH12	27 May 2025	100	100	<0.05	<0.05	-	-	-	-	<0.2	-	-	633	<1	<0.5	<0.5	<0.5	<0.5
BH12 0.13-0.23	BH12	27 May 2025	-	-	-	-	-	-	-	-	5.0	1	-	-	-	-	-	-	-
BH13 0.13-0.23	BH13	27 May 2025	<100	<50	<0.05	<0.05	-	-	-	-	<0.2	-	-	569	<1	<0.5	<0.5	<0.5	<0.5
BH14 0.4-0.6	BH14	27 May 2025	-	-	-	-	4.0	0.3	0.2	0.6	-	-	-	-	-	-	-	-	-
BH14 0.6-0.8	BH14	27 May 2025	<100	<50	<0.05	<0.05	-	-	-	-	<0.2	-	-	369	<1	<0.5	<0.5	<0.5	<0.5
BH14 0.13-0.2	BH14	27 May 2025	230	460	<0.05	<0.05	-	-	-	-	<0.2	-	-	361	<1	<0.5	<0.5	<0.5	<0.5
BH14 0.13-0.2	BH14	27 May 2025	-	-	-	-	-	-	-	-	5.2	1	-	-	-	-	-	-	-
BH15 0.4-0.5	BH15	27 May 2025	<100	<50	<0.05	<0.05	-	-	-	-	<0.2	-	-	-	<1	<0.5	<0.5	<0.5	<0.5
BH15 0.35-0.4	BH15	27 May 2025	-	-	-	-	1.5	<0.2	<0.2	<0.2	-	-	-	-	-	-	-	-	-
BH16 0.4-0.6	BH16	27 May 2025	<100	<50	<0.05	<0.05	-	-	-	-	<0.2	-	-	-	<1	<0.5	<0.5	<0.5	<0.5
BH16 0.23-0.3	BH16	27 May 2025	150	370	<0.05	<0.05	-	-	-	-	<0.2	-	-	373	<1	<0.5	<0.5	<0.5	<0.5
BH16 0.23-0.3	BH16	27 May 2025	-	-	-	-	-	-	-	-	5.5	1	-	-	-	-	-	-	-
BH17 0.4-0.5	BH17	27 May 2025	550	910	<0.05	<0.05	-	-	-	-	<0.2	-	-	497	<1	<0.5	<0.5	<0.5	<0.5
BH17 0.13-0.23	BH17	27 May 2025	1,460	2,480	<0.05	<0.05	-	-	-	-	<0.2	-	-	431	<1	<0.5	<0.5	<0.5	<0.5
BH17 0.13-0.23	BH17	27 May 2025	-	-	-	-	-	-	-	-	5.2	1	-	-	-	-	-	-	-
MW1 0.4-0.5	MW1	28 May 2025	<100	<50	<0.05	<0.05	-	-	-	-	<0.2	-	-	-	<1	<0.5	<0.5	<0.5	<0.5
MW1 0.17-0.27	MW1	28 May 2025	-	-	-	-	-	-	-	-	-	-	-	465	-	-	-	-	-
MW1 1.9-2.1	MW1	28 May 2025	<100	<50	<0.05	<0.05	-	-	-	-	<0.2	-	-	-	<1	<0.5	<0.5	<0.5	<0.5
MW1 3.9-4.0	MW1	28 May 2025	<100	<50	<0.05	<0.05	-	-	-	-	<0.2	-	-	-	<1	<0.5	<0.5	<0.5	<0.5
MW1 5.4-5.5	MW1	28 May 2025	<100	<50	<0.05	<0.05	-	-	-	-	<0.2	-	-	-	<1	<0.5	<0.5	<0.5	<0.5
MW2 0.4-0.5	MW2	28 May 2025	<100	<50	<0.05	<0.05	-	-	-	-	<0.2	-	-	-	<1	<0.5	<0.5	<0.5	<0.5
MW2 0.4-0.5	MW2	28 May 2025	-	-	-	-	-	-	-	-	5.1	1	-	-	-	-	-	-	-
MW2 0.14-0.24	MW2	28 May 2025	-	-	-	-	3.4	<0.2	<0.2	<0.2	-	-	-	581	-	-	-	-	-
MW2 1.4-1.5	MW2	28 May 2025	<100	<50	<0.05	<0.05	-	-	-	-	<0.2	-	-	-	<1	<0.5	<0.5	<0.5	<0.5
MW2 1.9-2.0	MW2	28 May 2025	<100	<50	<0.05	<0.05	-	-	-	-	<0.2	-	-	-	<1	<0.5	<0.5	<0.5	<0.5
MW3 0.9-1.0	MW3	28 May 2025	<100	<50	<0.05	<0.05	-	-	-	-	<0.2	-	-	-	<1	<0.5	<0.5	<0.5	<0.5
MW3 0.17-0.27	MW3	28 May 2025	<100	<50	<0.05	<0.05	-	-	-	-	<0.2	-	-	573	<1	<0.5	<0.5	<0.5	<0.5
MW3 1.4-1.5	MW3	28 May 2025	<100	<50	<0.05	<0.05	-	-	-	-	<0.2	-	-	-	<1	<0.5	<0.5	<0.5	<0.5
MW4 0.9-1.0	MW4	28 May 2025	<100	<50	<0.05	<0.05	-	-	-	-	<0.2	-	-	-	<1	<0.5	<0.5	<0.5	<0.5
MW4 0.17-0.27	MW4	28 May 2025	<100	<50	<0.05	<0.05	-	-	-	-	<0.2	-	-	674	<1	<0.5	<0.5	<0.5	<0.5
MW4 1.4-1.5	MW4	28 May 2025	<100	<50	<0.05	<0.05	-	-	-	-	<0.2	-	-	-	<1	<0.5	<0.5	<0.5	<0.5

Statistics																			
Number of Env Standard Exceedances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Env Standard Exceedances (Detects Only)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% of Detects at or above Env Standards	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% of Results Below Env Standards or Non-Detect	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100

Table 3: Preliminary Waste Classification



754-SYDEN394033
Ausgrid Mosman

Polycarbons		Semivolatile Organic Compounds	Volatile Organic Compounds										Phenols						
C29-C36	+C10 - C36 (Sum of total)	Hexachlorobenzene	Dichlorvos	Exchangeable Calcium	Exchangeable Magnesium	Exchangeable Potassium	Exchangeable Sodium	Monocrotophos	pH (Final)	TCLP Fluid	weight of sample	3/4-Methylphenol (m/p-cresol)	2,4-dimethylphenol	Phenol	2,4-dichlorophenol	4-chloro-3-methylphenol	2,6-dichlorophenol	Pentachlorophenol	
mg/kg	mg/kg	mg/kg	mg/kg	meq/100g	meq/100g	meq/100g	meq/100g	mg/kg	pH Unit	mg/kg	g	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	
EQL	100	50	0.05	0.05	0.1	0.1	0.1	0.1	0.2	0.1	1	0.01	1	0.5	0.5	0.5	0.5	2	
NSW 2014 General Solid Waste CT1 (No Leaching)	-	10,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
NSW 2014 General Solid Waste SCC1 (with leached)	-	10,000	-	-	-	-	-	-	-	-	-	-	-	518	-	-	-	-	
NSW 2014 General Solid Waste TCLP1 (leached)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
NSW 2014 Restricted Solid Waste CT2 (No Leaching)	-	40,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
NSW 2014 Restricted Solid Waste SCC2 (with leached)	-	40,000	-	-	-	-	-	-	-	-	-	-	-	2,073	-	-	-	-	
NSW 2014 Restricted Solid Waste TCLP2 (leached)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Field ID	Borehole	Date																	

Environmental Standards
NSW EPA, November 2014, NSW 2014 General Solid Waste CT1 (No Leaching)
NSW EPA, November 2014, NSW 2014 General Solid Waste SCC1 (with leached)
NSW EPA, November 2014, NSW 2014 General Solid Waste TCLP1 (leached)
NSW EPA, November 2014, NSW 2014 Restricted Solid Waste CT2 (No Leaching)
NSW EPA, November 2014, NSW 2014 Restricted Solid Waste SCC2 (with leached)
NSW EPA, November 2014, NSW 2014 Restricted Solid Waste TCLP2 (leached)

Table 3: Preliminary Waste Classification

754-SYDEN394033
Ausgrid Mosman



						Organophosphate Pesticides															
	2,4,6-trichlorophenol	2-nitrophenol	2-methylphenol	2-chlorophenol	2,4,5-trichlorophenol	Prothiofos	Malathion	Pirimiphos-ethyl	Chlorpyrifos	Diazinon	Chlorfenvinphos	Chlorpyrifos-methyl	Dimethoate	Fenthion	Methyl parathion	Bromophos-ethyl	Parathion	Carbophenothion	Azinphos methyl	Demeton-S-methyl	
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	
EQL	0.5	0.5	0.5	0.5	0.5	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.2	0.05	0.2	0.05	0.05	0.05	
NSW 2014 General Solid Waste CT1 (No Leaching)	40	-	4,000	-	8,000	-	-	-	4	-	-	-	-	-	-	-	-	-	-	-	
NSW 2014 General Solid Waste SCC1 (with leached)	72	-	7,200	-	14,400	-	-	-	7.5	-	-	-	-	-	-	-	-	-	-	-	
NSW 2014 General Solid Waste TCLP1 (leached)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
NSW 2014 Restricted Solid Waste CT2 (No Leaching)	160	-	16,000	-	32,000	-	-	-	16	-	-	-	-	-	-	-	-	-	-	-	
NSW 2014 Restricted Solid Waste SCC2 (with leached)	288	-	28,800	-	57,600	-	-	-	30	-	-	-	-	-	-	-	-	-	-	-	
NSW 2014 Restricted Solid Waste TCLP2 (leached)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Field ID	Borehole	Date																		
BH5 0.2-0.6	BH5	28 May 2025	<0.5	<0.5	<0.5	<0.5	<0.5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.2	<0.05	<0.05
BH5 0.7-1.0	BH5	28 May 2025	<0.5	<0.5	<0.5	<0.5	<0.5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.2	<0.05	<0.05
BH5 1.7-1.9	BH5	28 May 2025	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH6 0.2-0.4	BH6	28 May 2025	<0.5	<0.5	<0.5	<0.5	<0.5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.2	<0.05	<0.05
BH6 0.5-0.8	BH6	28 May 2025	<0.5	<0.5	<0.5	<0.5	<0.5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.2	<0.05	<0.05
BH7 0.17-0.5	BH7	28 May 2025	<0.5	<0.5	<0.5	<0.5	<0.5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.2	<0.05	<0.05
BH7 2.0-2.3	BH7	28 May 2025	<0.5	<0.5	<0.5	<0.5	<0.5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.2	<0.05	<0.05
BH8 0.8-0.9	BH8	27 May 2025	<0.5	<0.5	<0.5	<0.5	<0.5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.2	<0.05	<0.05
BH8 0.13-0.23	BH8	27 May 2025	<0.5	<0.5	<0.5	<0.5	<0.5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.2	<0.05	<0.05
BH9 0.15-0.3	BH9	27 May 2025	<0.5	<0.5	<0.5	<0.5	<0.5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.2	<0.05	<0.05
BH10 0.6-0.8	BH10	27 May 2025	<0.5	<0.5	<0.5	<0.5	<0.5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.2	<0.05	<0.05
BH10 0.13-0.23	BH10	27 May 2025	<0.5	<0.5	<0.5	<0.5	<0.5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.2	<0.05	<0.05
BH11 0.08-0.4	BH11	27 May 2025	<0.5	<0.5	<0.5	<0.5	<0.5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.2	<0.05	<0.05
BH12 0.4-0.5	BH12	27 May 2025	<0.5	<0.5	<0.5	<0.5	<0.5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.2	<0.05	<0.05
BH12 0.4-0.5	BH12	27 May 2025	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH12 0.13-0.23	BH12	27 May 2025	<0.5	<0.5	<0.5	<0.5	<0.5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.2	<0.05	<0.05
BH12 0.13-0.23	BH12	27 May 2025	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH13 0.13-0.23	BH13	27 May 2025	<0.5	<0.5	<0.5	<0.5	<0.5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.2	<0.05	<0.05
BH14 0.4-0.6	BH14	27 May 2025	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH14 0.6-0.8	BH14	27 May 2025	<0.5	<0.5	<0.5	<0.5	<0.5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.2	<0.05	<0.05
BH14 0.13-0.2	BH14	27 May 2025	<0.5	<0.5	<0.5	<0.5	<0.5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.2	<0.05	<0.05
BH14 0.13-0.2	BH14	27 May 2025	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH15 0.4-0.5	BH15	27 May 2025	<0.5	<0.5	<0.5	<0.5	<0.5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.2	<0.05	<0.05
BH15 0.35-0.4	BH15	27 May 2025	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH16 0.4-0.6	BH16	27 May 2025	<0.5	<0.5	<0.5	<0.5	<0.5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.2	<0.05	<0.05
BH16 0.23-0.3	BH16	27 May 2025	<0.5	<0.5	<0.5	<0.5	<0.5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.2	<0.05	<0.05
BH16 0.23-0.3	BH16	27 May 2025	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH17 0.4-0.5	BH17	27 May 2025	<0.5	<0.5	<0.5	<0.5	<0.5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.2	<0.05	<0.05
BH17 0.13-0.23	BH17	27 May 2025	<0.5	<0.5	<0.5	<0.5	<0.5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.2	<0.05	<0.05
BH17 0.13-0.23	BH17	27 May 2025	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW1 0.4-0.5	MW1	28 May 2025	<0.5	<0.5	<0.5	<0.5	<0.5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.2	<0.05	<0.05
MW1 0.17-0.27	MW1	28 May 2025	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW1 1.9-2.1	MW1	28 May 2025	<0.5	<0.5	<0.5	<0.5	<0.5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.2	<0.05	<0.05
MW1 3.9-4.0	MW1	28 May 2025	<0.5	<0.5	<0.5	<0.5	<0.5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.2	<0.05	<0.05
MW1 5.4-5.5	MW1	28 May 2025	<0.5	<0.5	<0.5	<0.5	<0.5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.2	<0.05	<0.05
MW2 0.4-0.5	MW2	28 May 2025	<0.5	<0.5	<0.5	<0.5	<0.5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.2	<0.05	<0.05
MW2 0.4-0.5	MW2	28 May 2025	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW2 0.14-0.24	MW2	28 May 2025	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW2 1.4-1.5	MW2	28 May 2025	<0.5	<0.5	<0.5	<0.5	<0.5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.2	<0.05	<0.05
MW2 1.9-2.0	MW2	28 May 2025	<0.5	<0.5	<0.5	<0.5	<0.5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.2	<0.05	<0.05
MW3 0.9-1.0	MW3	28 May 2025	<0.5	<0.5	<0.5	<0.5	<0.5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.2	<0.05	<0.05
MW3 0.17-0.27	MW3	28 May 2025	<0.5	<0.5	<0.5	<0.5	<0.5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.2	<0.05	<0.05
MW3 1.4-1.5	MW3	28 May 2025	<0.5	<0.5	<0.5	<0.5	<0.5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.2	<0.05	<0.05
MW4 0.9-1.0	MW4	28 May 2025	<0.5	<0.5	<0.5	<0.5	<0.5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.2	<0.05	<0.05
MW4 0.17-0.27	MW4	28 May 2025	<0.5	<0.5	<0.5	<0.5	<0.5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.2	<0.05	<0.05
MW4 1.4-1.5	MW4	28 May 2025	<0.5	<0.5	<0.5	<0.5	<0.5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.2	<0.05	<0.05

Statistics																				
Number of Env Standard Exceedances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Env Standard Exceedances (Detects Only)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% of Detects at or above Env Standards	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% of Results Below Env Standards or Non-Detect	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100

Table 3: Preliminary Waste Classification



754-SYDEN394033
Ausgrid Mosman

						Organophosphate Pesticides														
	2,4,6-trichlorophenol	2-nitrophenol	2-methylphenol	2-chlorophenol	2,4,5-trichlorophenol	Prothiofos	Malathion	Pririmphos-ethyl	Chlorpyrifos	Diazinon	Chlorfenvinphos	Chlorpyrifos-methyl	Dimethoate	Fenthion	Methyl parathion	Bromophos-ethyl	Parathion	Carbophenothion	Azinphos methyl	Demeton-S-methyl
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL	0.5	0.5	0.5	0.5	0.5	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.2	0.05	0.2	0.05	0.05	0.05
NSW 2014 General Solid Waste CT1 (No Leaching)	40	-	4,000	-	8,000	-	-	-	4	-	-	-	-	-	-	-	-	-	-	-
NSW 2014 General Solid Waste SCC1 (with leached)	72	-	7,200	-	14,400	-	-	-	7.5	-	-	-	-	-	-	-	-	-	-	-
NSW 2014 General Solid Waste TCLP1 (leached)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NSW 2014 Restricted Solid Waste CT2 (No Leaching)	160	-	16,000	-	32,000	-	-	-	16	-	-	-	-	-	-	-	-	-	-	-
NSW 2014 Restricted Solid Waste SCC2 (with leached)	288	-	28,800	-	57,600	-	-	-	30	-	-	-	-	-	-	-	-	-	-	-
NSW 2014 Restricted Solid Waste TCLP2 (leached)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Field ID	Borehole	Date
----------	----------	------

Environmental Standards
NSW EPA, November 2014, NSW 2014 General Solid Waste CT1 (No Leaching)
NSW EPA, November 2014, NSW 2014 General Solid Waste SCC1 (with leached)
NSW EPA, November 2014, NSW 2014 General Solid Waste TCLP1 (leached)
NSW EPA, November 2014, NSW 2014 Restricted Solid Waste CT2 (No Leaching)
NSW EPA, November 2014, NSW 2014 Restricted Solid Waste SCC2 (with leached)
NSW EPA, November 2014, NSW 2014 Restricted Solid Waste TCLP2 (leached)

Table 3: Preliminary Waste Classification

754-SYDEN394033
Ausgrid Mosman



	Organochlorine Pesticides																			
	Ethion	Endosulfan sulphate	Aldrin	Aldrin + Dieldrin	alpha-BHC	delta-BHC	Endosulfan II	DDT	Chlordane (cis)	Chlordane (trans)	chlordane	gamma-BHC (Lindane)	Dieldrin	Endrin	Methoxychlor	DDD	4,4-DDE	Heptachlor	Endosulfan I	DDT+DDE+DDD
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.2	0.05	0.05	0.05	0.05	0.05	0.05	0.2	0.05	0.05	0.05	0.05	0.05
NSW 2014 General Solid Waste CT1 (No Leaching)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NSW 2014 General Solid Waste SCC1 (with leached)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NSW 2014 General Solid Waste TCLP1 (leached)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NSW 2014 Restricted Solid Waste CT2 (No Leaching)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NSW 2014 Restricted Solid Waste SCC2 (with leached)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NSW 2014 Restricted Solid Waste TCLP2 (leached)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Field ID	Borehole	Date																		
BH5 0.2-0.6	BH5	28 May 2025	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05
BH5 0.7-1.0	BH5	28 May 2025	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05
BH5 1.7-1.9	BH5	28 May 2025	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH6 0.2-0.4	BH6	28 May 2025	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05
BH6 0.5-0.8	BH6	28 May 2025	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05
BH7 0.17-0.5	BH7	28 May 2025	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05
BH7 2.0-2.3	BH7	28 May 2025	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05
BH8 0.8-0.9	BH8	27 May 2025	<0.05	<0.05	0.69	0.89	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	0.20	<0.05	<0.2	<0.05	<0.05	<0.05
BH8 0.13-0.23	BH8	27 May 2025	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05
BH9 0.15-0.3	BH9	27 May 2025	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05
BH10 0.6-0.8	BH10	27 May 2025	<0.05	<0.05	0.10	0.39	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	0.29	<0.05	<0.2	<0.05	<0.05	<0.05
BH10 0.13-0.23	BH10	27 May 2025	<0.05	<0.05	<0.05	0.11	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	0.11	<0.05	<0.2	<0.05	<0.05	<0.05
BH11 0.08-0.4	BH11	27 May 2025	<0.05	<0.05	<0.05	0.08	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	0.08	<0.05	<0.2	<0.05	<0.05	<0.05
BH12 0.4-0.5	BH12	27 May 2025	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05
BH12 0.4-0.5	BH12	27 May 2025	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH12 0.13-0.23	BH12	27 May 2025	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05
BH12 0.13-0.23	BH12	27 May 2025	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH13 0.13-0.23	BH13	27 May 2025	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05
BH14 0.4-0.6	BH14	27 May 2025	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH14 0.6-0.8	BH14	27 May 2025	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05
BH14 0.13-0.2	BH14	27 May 2025	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05
BH14 0.13-0.2	BH14	27 May 2025	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH15 0.4-0.5	BH15	27 May 2025	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05
BH15 0.35-0.4	BH15	27 May 2025	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH16 0.4-0.6	BH16	27 May 2025	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05
BH16 0.23-0.3	BH16	27 May 2025	<0.05	<0.05	0.06	0.55	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	0.49	<0.05	<0.2	<0.05	<0.05	<0.05
BH16 0.23-0.3	BH16	27 May 2025	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH17 0.4-0.5	BH17	27 May 2025	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05
BH17 0.13-0.23	BH17	27 May 2025	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05
BH17 0.13-0.23	BH17	27 May 2025	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW1 0.4-0.5	MW1	28 May 2025	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05
MW1 0.17-0.27	MW1	28 May 2025	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW1 1.9-2.1	MW1	28 May 2025	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05
MW1 3.9-4.0	MW1	28 May 2025	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05
MW1 5.4-5.5	MW1	28 May 2025	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05
MW2 0.4-0.5	MW2	28 May 2025	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05
MW2 0.4-0.5	MW2	28 May 2025	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW2 0.14-0.24	MW2	28 May 2025	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW2 1.4-1.5	MW2	28 May 2025	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05
MW2 1.9-2.0	MW2	28 May 2025	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05
MW3 0.9-1.0	MW3	28 May 2025	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05
MW3 0.17-0.27	MW3	28 May 2025	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05
MW3 1.4-1.5	MW3	28 May 2025	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05
MW4 0.9-1.0	MW4	28 May 2025	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05
MW4 0.17-0.27	MW4	28 May 2025	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05
MW4 1.4-1.5	MW4	28 May 2025	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05

Statistics																					
Number of Env Standard Exceedances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Env Standard Exceedances (Detects Only)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% of Detects at or above Env Standards	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% of Results Below Env Standards or Non-Detect	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100

Table 3: Preliminary Waste Classification



754-SYDEN394033
Ausgrid Mosman

		Organochlorine Pesticides																		
	Ethion	Endosulfan sulphate	Aldrin	Aldrin + Dieldrin	alpha-BHC	delta-BHC_	Endosulfan II	DDT	Chlordane (cis)	Chlordane (trans)	chlordan	g-BHC (Lindane)	Dieldrin	Endrin	Methoxychlor	DDD	4,4-DDE	Heptachlor	Endosulfan I	DDT+DDE+DDD
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.2	0.05	0.05	0.05	0.05	0.05	0.05	0.2	0.05	0.05	0.05	0.05	0.05
NSW 2014 General Solid Waste CT1 (No Leaching)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NSW 2014 General Solid Waste SCC1 (with leached)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NSW 2014 General Solid Waste TCLP1 (leached)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NSW 2014 Restricted Solid Waste CT2 (No Leaching)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NSW 2014 Restricted Solid Waste SCC2 (with leached)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NSW 2014 Restricted Solid Waste TCLP2 (leached)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Field ID	Borehole	Date																		

Environmental Standards
NSW EPA, November 2014, NSW 2014 General Solid Waste CT1 (No Leaching)
NSW EPA, November 2014, NSW 2014 General Solid Waste SCC1 (with leached)
NSW EPA, November 2014, NSW 2014 General Solid Waste TCLP1 (leached)
NSW EPA, November 2014, NSW 2014 Restricted Solid Waste CT2 (No Leaching)
NSW EPA, November 2014, NSW 2014 Restricted Solid Waste SCC2 (with leached)
NSW EPA, November 2014, NSW 2014 Restricted Solid Waste TCLP2 (leached)

Table 3: Preliminary Waste Classification



754-SYDEN394033
Ausgrid Mosman

	Heptachlor epoxide	beta-BHC	Endosulfan	Endrin aldehyde	Endrin ketone
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL	0.05	0.05	0.05	0.05	0.05
NSW 2014 General Solid Waste CT1 (No Leaching)	-	-	60	-	-
NSW 2014 General Solid Waste SCC1 (with leached)	-	-	3	-	-
NSW 2014 General Solid Waste TCLP1 (leached)	-	-	-	-	-
NSW 2014 Restricted Solid Waste CT2 (No Leaching)	-	-	240	-	-
NSW 2014 Restricted Solid Waste SCC2 (with leached)	-	-	432	-	-
NSW 2014 Restricted Solid Waste TCLP2 (leached)	-	-	-	-	-

Field ID	Borehole	Date					
BH5 0.2-0.6	BH5	28 May 2025	<0.05	<0.05	<0.05	<0.05	<0.05
BH5 0.7-1.0	BH5	28 May 2025	<0.05	<0.05	<0.05	<0.05	<0.05
BH5 1.7-1.9	BH5	28 May 2025	-	-	-	-	-
BH6 0.2-0.4	BH6	28 May 2025	<0.05	<0.05	<0.05	<0.05	<0.05
BH6 0.5-0.8	BH6	28 May 2025	<0.05	<0.05	<0.05	<0.05	<0.05
BH7 0.17-0.5	BH7	28 May 2025	<0.05	<0.05	<0.05	<0.05	<0.05
BH7 2.0-2.3	BH7	28 May 2025	<0.05	<0.05	<0.05	<0.05	<0.05
BH8 0.8-0.9	BH8	27 May 2025	<0.05	<0.05	<0.05	<0.05	<0.05
BH8 0.13-0.23	BH8	27 May 2025	<0.05	<0.05	<0.05	<0.05	<0.05
BH9 0.15-0.3	BH9	27 May 2025	<0.05	<0.05	<0.05	<0.05	<0.05
BH10 0.6-0.8	BH10	27 May 2025	<0.05	<0.05	<0.05	<0.05	<0.05
BH10 0.13-0.23	BH10	27 May 2025	<0.05	<0.05	<0.05	<0.05	<0.05
BH11 0.08-0.4	BH11	27 May 2025	<0.05	<0.05	<0.05	<0.05	<0.05
BH12 0.4-0.5	BH12	27 May 2025	<0.05	<0.05	<0.05	<0.05	<0.05
BH12 0.4-0.5	BH12	27 May 2025	-	-	-	-	-
BH12 0.13-0.23	BH12	27 May 2025	<0.05	<0.05	<0.05	<0.05	<0.05
BH12 0.13-0.23	BH12	27 May 2025	-	-	-	-	-
BH13 0.13-0.23	BH13	27 May 2025	<0.05	<0.05	<0.05	<0.05	<0.05
BH14 0.4-0.6	BH14	27 May 2025	-	-	-	-	-
BH14 0.6-0.8	BH14	27 May 2025	<0.05	<0.05	<0.05	<0.05	<0.05
BH14 0.13-0.2	BH14	27 May 2025	<0.05	<0.05	<0.05	<0.05	<0.05
BH14 0.13-0.2	BH14	27 May 2025	-	-	-	-	-
BH15 0.4-0.5	BH15	27 May 2025	<0.05	<0.05	<0.05	<0.05	<0.05
BH15 0.35-0.4	BH15	27 May 2025	-	-	-	-	-
BH16 0.4-0.6	BH16	27 May 2025	<0.05	<0.05	<0.05	<0.05	<0.05
BH16 0.23-0.3	BH16	27 May 2025	<0.05	<0.05	<0.05	<0.05	<0.05
BH16 0.23-0.3	BH16	27 May 2025	-	-	-	-	-
BH17 0.4-0.5	BH17	27 May 2025	<0.05	<0.05	<0.05	<0.05	<0.05
BH17 0.13-0.23	BH17	27 May 2025	<0.05	<0.05	<0.05	<0.05	<0.05
BH17 0.13-0.23	BH17	27 May 2025	-	-	-	-	-
MW1 0.4-0.5	MW1	28 May 2025	<0.05	<0.05	<0.05	<0.05	<0.05
MW1 0.17-0.27	MW1	28 May 2025	-	-	-	-	-
MW1 1.9-2.1	MW1	28 May 2025	<0.05	<0.05	<0.05	<0.05	<0.05
MW1 3.9-4.0	MW1	28 May 2025	<0.05	<0.05	<0.05	<0.05	<0.05
MW1 5.4-5.5	MW1	28 May 2025	<0.05	<0.05	<0.05	<0.05	<0.05
MW2 0.4-0.5	MW2	28 May 2025	<0.05	<0.05	<0.05	<0.05	<0.05
MW2 0.4-0.5	MW2	28 May 2025	-	-	-	-	-
MW2 0.14-0.24	MW2	28 May 2025	-	-	-	-	-
MW2 1.4-1.5	MW2	28 May 2025	<0.05	<0.05	<0.05	<0.05	<0.05
MW2 1.9-2.0	MW2	28 May 2025	<0.05	<0.05	<0.05	<0.05	<0.05
MW3 0.9-1.0	MW3	28 May 2025	<0.05	<0.05	<0.05	<0.05	<0.05
MW3 0.17-0.27	MW3	28 May 2025	<0.05	<0.05	<0.05	<0.05	<0.05
MW3 1.4-1.5	MW3	28 May 2025	<0.05	<0.05	<0.05	<0.05	<0.05
MW4 0.9-1.0	MW4	28 May 2025	<0.05	<0.05	<0.05	<0.05	<0.05
MW4 0.17-0.27	MW4	28 May 2025	<0.05	<0.05	<0.05	<0.05	<0.05
MW4 1.4-1.5	MW4	28 May 2025	<0.05	<0.05	<0.05	<0.05	<0.05

Statistics						
Number of Env Standard Exceedances	0	0	0	0	0	0
Number of Env Standard Exceedances (Detects Only)	0	0	0	0	0	0
% of Detects at or above Env Standards	0	0	0	0	0	0
% of Results Below Env Standards or Non-Detect	100	100	100	100	100	100

Table 3: Preliminary Waste Classification



754-SYDEN394033
Ausgrid Mosman

	Heptachlor epoxide	beta-BHC	Endosulfan	Endrin aldehyde	Endrin ketone
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL	0.05	0.05	0.05	0.05	0.05
NSW 2014 General Solid Waste CT1 (No Leaching)	-	-	60	-	-
NSW 2014 General Solid Waste SCC1 (with leached)	-	-	3	-	-
NSW 2014 General Solid Waste TCLP1 (leached)	-	-	-	-	-
NSW 2014 Restricted Solid Waste CT2 (No Leaching)	-	-	240	-	-
NSW 2014 Restricted Solid Waste SCC2 (with leached)	-	-	432	-	-
NSW 2014 Restricted Solid Waste TCLP2 (leached)	-	-	-	-	-

Field ID	Borehole	Date
----------	----------	------

Environmental Standards
NSW EPA, November 2014, NSW 2014 General Solid Waste CT1 (No Leaching)
NSW EPA, November 2014, NSW 2014 General Solid Waste SCC1 (with leached)
NSW EPA, November 2014, NSW 2014 General Solid Waste TCLP1 (leached)
NSW EPA, November 2014, NSW 2014 Restricted Solid Waste CT2 (No Leaching)
NSW EPA, November 2014, NSW 2014 Restricted Solid Waste SCC2 (with leached)
NSW EPA, November 2014, NSW 2014 Restricted Solid Waste TCLP2 (leached)

Table 4: Groundwater HILs



754-SYDEN394033
Ausgrid Mosman

	Metals								BTEX								Monocyclic			
	Arsenic (filtered)	Cadmium (filtered)	Chromium (filtered)	Copper (filtered)	Mercury (filtered)	Nickel (filtered)	Lead (filtered)	Zinc (filtered)	Benzene	Ethylbenzene	Toluene	Xylenes Total	Xylene (o)	Xylenes (m & p)	Total BTEX	Naphthalene (VOC)	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	n-Butylbenzene	iso-Propylbenzene (cumene)
	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
EQL	0.001	0.0001	0.001	0.001	0.0001	0.001	0.001	0.005	0.001	0.001	0.001	0.002	0.001	0.002	0.001	0.005	0.005	0.005	0.005	0.005
NEPM 2013 Table 1A(4) Comm/Ind HSL D GW for Vapour Intrusion, Sand	-	-	-	-	-	-	-	-	5 5 5	-	-	-	-	-	-	-	-	-	-	-
NEPM 2013 Table 1A(4) Res HSL A & B GW for Vapour Intrusion, Sand	-	-	-	-	-	-	-	-	0.8 0.8 0.9	-	-	-	-	-	-	-	-	-	-	-

Field ID	Date	Lab Report Number																				
MD_MW01	05 Jun 2025	ES2516890	0.002	<0.0001	0.002	<0.001	<0.0001	0.003	<0.001	0.031	<0.001	<0.002	<0.002	<0.002	<0.002	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	
MD_MW02	04 Jun 2025	ES2516890	0.044	<0.0001	0.005	<0.001	<0.0001	0.003	0.002	<0.005	1.14	0.606	0.608	2.53	0.471	2.03	4.88	0.177	0.646	0.158	<0.005	0.032
MD_MW02	04 Jun 2025	ES2516890	-	-	-	-	-	-	-	-	-	-	-	-	0.498	-	-	0.179	-	-	-	
MD_MW03	05 Jun 2025	ES2516890	0.002	<0.0001	<0.001	<0.001	<0.0001	<0.001	<0.001	<0.005	0.003	0.013	<0.002	0.005	<0.002	0.005	0.021	0.006	0.006	<0.005	<0.005	<0.005
MD_MW03	05 Jun 2025	ES2516890	-	-	-	-	-	-	-	-	-	-	-	-	-	0.006	-	0.007	-	-	-	-
NS_MW1	04 Jun 2025	ES2516890	0.009	<0.0001	0.002	<0.001	<0.0001	0.004	<0.001	0.007	<0.001	<0.002	<0.002	<0.002	<0.002	<0.001	<0.005	<0.005	<0.005	<0.005	0.007	
NS_MW2	04 Jun 2025	ES2516890	<0.001	<0.0001	0.003	0.001	<0.0001	0.009	<0.001	0.042	<0.001	<0.002	<0.002	<0.002	<0.002	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	
NS_MW3	04 Jun 2025	ES2516890	<0.001	<0.0001	0.001	0.003	<0.0001	0.009	<0.001	0.038	<0.001	<0.002	<0.002	<0.002	<0.002	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	
NS_MW4	04 Jun 2025	ES2516890	<0.001	<0.0001	0.002	<0.001	0.0002	0.005	<0.001	0.011	<0.001	<0.002	<0.002	<0.002	<0.002	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	
WDUP1	04 Jun 2025	ES2516890	0.009	<0.0001	<0.001	<0.001	<0.0001	<0.001	<0.001	0.007	<0.001	<0.002	<0.002	<0.002	<0.002	<0.001	<0.005	<0.005	<0.005	<0.005	0.008	
WTRIP1	04 Jun 2025	1230380	0.009	<0.0002	<0.001	<0.001	<0.0001	<0.001	<0.001	0.007	<0.001	<0.001	<0.001	<0.003	<0.001	<0.002	-	<0.01	-	-	-	-

Statistics																					
Number of Env Standard Exceedances			0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
Number of Env Standard Exceedances (Detects Only)			0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
% of Detects at or above Env Standards			0	0	0	0	0	0	0	0	11	0	0	0	0	0	0	0	0	0	0
% of Results Below Env Standards or Non-Detect			100	100	100	100	100	100	100	100	89	100	100	100	100	100	100	100	100	100	100

Table 4: Groundwater HILs



754-SYDEN394033
Ausgrid Mosman

	Aromatic Hydrocarbons					Polycyclic Aromatic Hydrocarbons														
	n-Propylbenzene	sec-Butylbenzene	tert-Butylbenzene	Styrene	p-Isopropyltoluene	Benzo(a)pyrene TEQ calc (Zero)	Anthracene	Pyrene	Benzo(g,h,i)perylene	Indeno(1,2,3-c,d)pyrene	Benzo(b+i)fluoranthene	Fluoranthene	Benzo(k)fluoranthene	Acenaphthylene	Chrysene	Benzo(a) pyrene	Dibenz(a,h)anthracene	Benz(a)anthracene	Acenaphthene	Phenanthrene
	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
EQL	0.005	0.005	0.005	0.005	0.005	0.0005	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.0005	0.001	0.001	0.001	0.001
NEPM 2013 Table 1A(4) Comm/Ind HSL D GW for Vapour Intrusion, Sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NEPM 2013 Table 1A(4) Res HSL A & B GW for Vapour Intrusion, Sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Field ID	Date	Lab Report Number																			
MD_MW01	05 Jun 2025	ES2516890	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0005	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0005	<0.0010	<0.0010	<0.0010
MD_MW02	04 Jun 2025	ES2516890	0.072	<0.005	0.074	<0.005	<0.005	<0.0024	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048
MD_MW02	04 Jun 2025	ES2516890	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MD_MW03	05 Jun 2025	ES2516890	<0.005	0.006	<0.005	<0.005	<0.005	<0.0005	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0005	<0.0010	<0.0010	<0.0010	<0.0010
MD_MW03	05 Jun 2025	ES2516890	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NS_MW1	04 Jun 2025	ES2516890	0.012	<0.005	<0.005	<0.005	<0.005	<0.0005	0.0018	0.0038	<0.0010	<0.0010	<0.0010	0.0064	<0.0010	<0.0010	<0.0010	<0.0005	<0.0010	<0.0010	0.0223
NS_MW2	04 Jun 2025	ES2516890	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0005	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0005	<0.0010	<0.0010	<0.0010	<0.0010
NS_MW3	04 Jun 2025	ES2516890	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0005	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0005	<0.0010	<0.0010	<0.0010	<0.0010
NS_MW4	04 Jun 2025	ES2516890	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0005	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0005	<0.0010	<0.0010	<0.0010	<0.0010
WDUP1	04 Jun 2025	ES2516890	0.014	<0.005	<0.005	<0.005	<0.005	<0.0005	0.0018	0.0033	<0.0010	<0.0010	<0.0010	0.0057	<0.0010	<0.0010	<0.0005	<0.0010	<0.0010	0.0222	0.0203
WTRIP1	04 Jun 2025	1230380	-	-	-	-	-	-	0.002	0.003	<0.001	<0.001	<0.001	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	0.025	0.021

Statistics																					
Number of Env Standard Exceedances			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Env Standard Exceedances (Detects Only)			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% of Detects at or above Env Standards			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% of Results Below Env Standards or Non-Detect			100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100

Table 4: Groundwater HILs



754-SYDEN394033
Ausgrid Mosman

				Total Recoverable Hydrocarbons							Total Petroleum Hydrocarbons									
	Fluorene	PAHs (Sum of total)	Naphthalene	F1 (C6-C10)	F1 (C6-C10) less BTEX	F2 (C10-C16 Hydrocarbons)	F3 (C16-C34 Hydrocarbons)	C34-C40	C10 - C40 (Sum of total)	F2 C10-C16 (minus Naphthalene)	C6 - C9	C10 - C14	C15 - C28	C29-C36	+C10 - C36 (Sum of total)	1,1,1,2-tetrachloroethane	1,1,1-trichloroethane	1,1,2,2-tetrachloroethane	1,1-dichloroethane	1,1-dichloroethene
	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
EQL	0.001	0.0005	0.001	0.02	0.02	0.05	0.1	0.1	0.1	0.05	0.02	0.05	0.1	0.05	0.05	0.005	0.005	0.005	0.005	0.005
NEPM 2013 Table 1A(4) Comm/Ind HSL D GW for Vapour Intrusion, Sand	-	-	-	-	6 6 7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NEPM 2013 Table 1A(4) Res HSL A & B GW for Vapour Intrusion, Sand	-	-	-	-	1 1 1	-	-	-	-	1 1 1	-	-	-	-	-	-	-	-	-	-

Field ID	Date	Lab Report Number																			
MD_MW01	05 Jun 2025	ES2516890	<0.0010	<0.0005	<0.0010	0.03	0.03	<0.1	<0.1	<0.1	<0.1	<0.1	0.03	<0.05	<0.1	<0.05	<0.05	<0.005	<0.005	<0.005	<0.005
MD_MW02	04 Jun 2025	ES2516890	<0.0048	0.12	0.12	7.62	2.74	1.74	<0.1	<0.1	1.74	1.56	7.44	2.68	0.21	<0.05	2.89	<0.005	<0.005	<0.005	<0.005
MD_MW02	04 Jun 2025	ES2516890	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MD_MW03	05 Jun 2025	ES2516890	<0.0010	0.0047	0.0047	0.12	0.1	0.31	0.11	<0.1	0.42	0.3	0.1	0.28	0.18	<0.05	0.46	<0.005	<0.005	<0.005	<0.005
MD_MW03	05 Jun 2025	ES2516890	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NS_MW1	04 Jun 2025	ES2516890	0.0166	0.0743	0.0018	0.12	0.12	0.81	0.41	<0.1	1.22	0.81	0.09	0.66	0.6	<0.05	1.26	<0.005	<0.005	<0.005	<0.005
NS_MW2	04 Jun 2025	ES2516890	<0.0010	<0.0005	<0.0010	<0.02	<0.02	<0.1	<0.1	<0.1	<0.1	<0.1	<0.02	<0.05	<0.1	<0.05	<0.05	<0.005	<0.005	<0.005	<0.005
NS_MW3	04 Jun 2025	ES2516890	<0.0010	<0.0005	<0.0010	<0.02	<0.02	<0.1	<0.1	<0.1	<0.1	<0.1	<0.02	<0.05	<0.1	<0.05	<0.05	<0.005	<0.005	<0.005	<0.005
NS_MW4	04 Jun 2025	ES2516890	<0.0010	<0.0005	<0.0010	<0.02	<0.02	<0.1	<0.1	<0.1	<0.1	<0.1	<0.02	<0.05	<0.1	<0.05	<0.05	<0.005	<0.005	<0.005	<0.005
WDUP1	04 Jun 2025	ES2516890	0.0164	0.0715	0.0018	0.14	0.14	0.86	0.29	<0.1	1.15	0.86	0.11	0.7	0.48	<0.05	1.18	<0.005	<0.005	<0.005	<0.005
WTRIP1	04 Jun 2025	1230380	0.018	0.077	0.003	0.13	0.13	1.1	0.4	<0.1	1.5	1.1	0.07	1.0	0.7	<0.1	1.7	-	-	-	-

Statistics																					
Number of Env Standard Exceedances			0	0	0	0	1	0	0	0	0	2	0	0	0	0	0	0	0	0	0
Number of Env Standard Exceedances (Detects Only)			0	0	0	0	1	0	0	0	0	2	0	0	0	0	0	0	0	0	0
% of Detects at or above Env Standards			0	0	0	0	11	0	0	0	0	22	0	0	0	0	0	0	0	0	0
% of Results Below Env Standards or Non-Detect			100	100	100	100	89	100	100	100	100	78	100	100	100	100	100	100	100	100	100

Table 4: Groundwater HILs



754-SYDEN394033
Ausgrid Mosman

	Chlorinated Hydrocarbons																			
	1,1-dichloropropene	1,2,3-trichloropropane	1,2-dibromo-3-chloropropane	1,2-dichloroethane	1,2-dichloropropane	1,1,2-trichloroethane	2,2-dichloropropane	Bromodichloromethane	Bromoform	Carbon tetrachloride	Chlorodibromomethane	Chloroethane	1,3-dichloropropane	Chloroform	Chloromethane	cis-1,2-dichloroethene	cis-1,3-dichloropropene	Dibromomethane	Hexachlorobutadiene	Tetrachloroethene
	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
EQL	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.05	0.005	0.005	0.05	0.005	0.005	0.005	0.005	0.005
NEPM 2013 Table 1A(4) Comm/Ind HSL D GW for Vapour Intrusion, Sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NEPM 2013 Table 1A(4) Res HSL A & B GW for Vapour Intrusion, Sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Field ID	Date	Lab Report Number																		
MD_MW01	05 Jun 2025	ES2516890	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005
MD_MW02	04 Jun 2025	ES2516890	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005
MD_MW02	04 Jun 2025	ES2516890	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MD_MW03	05 Jun 2025	ES2516890	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005
MD_MW03	05 Jun 2025	ES2516890	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NS_MW1	04 Jun 2025	ES2516890	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005
NS_MW2	04 Jun 2025	ES2516890	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005
NS_MW3	04 Jun 2025	ES2516890	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005
NS_MW4	04 Jun 2025	ES2516890	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005
WDUP1	04 Jun 2025	ES2516890	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005
WTRIP1	04 Jun 2025	1230380	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Statistics																				
Number of Env Standard Exceedances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Env Standard Exceedances (Detects Only)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% of Detects at or above Env Standards	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% of Results Below Env Standards or Non-Detect	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100

Table 4: Groundwater HILs



754-SYDEN394033
Ausgrid Mosman

					Semivolatile Organic Compounds					Volatile Organic Compound										
	trans-1,2-dichloroethene	trans-1,3-dichloropropene	Trichloroethene	Vinyl chloride	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,2,4-Trichlorobenzene	Dinoseb	1,2,3-Trichlorobenzene	1,4-Dichloro-2-Butene [cis]	1,4-Dichloro-2-Butene [trans]	2-Butanone (MEK)	1,2-Dibromoethane	4-Chlorotoluene	4-Methyl-2-pentanone (MIBK)	2-Chlorotoluene	2-Hexanone (MIBK)	Bromobenzene	Bromomethane
	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
EQL	0.005	0.005	0.005	0.05	0.005	0.005	0.005	0.005	0.1	0.005	0.005	0.005	0.05	0.005	0.005	0.05	0.005	0.05	0.005	0.05
NEPM 2013 Table 1A(4) Comm/Ind HSL D GW for Vapour Intrusion, Sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NEPM 2013 Table 1A(4) Res HSL A & B GW for Vapour Intrusion, Sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Field ID	Date	Lab Report Number																			
MD_MW01	05 Jun 2025	ES2516890	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.05	<0.005	<0.05	<0.005
MD_MW02	04 Jun 2025	ES2516890	<0.005	<0.005	<0.005	<0.05	0.006	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.05	<0.005	<0.05	<0.005
MD_MW02	04 Jun 2025	ES2516890	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MD_MW03	05 Jun 2025	ES2516890	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.05	<0.005	<0.05	<0.005
MD_MW03	05 Jun 2025	ES2516890	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NS_MW1	04 Jun 2025	ES2516890	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.05	<0.005	<0.05	<0.005
NS_MW2	04 Jun 2025	ES2516890	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.05	<0.005	<0.05	<0.005
NS_MW3	04 Jun 2025	ES2516890	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.05	<0.005	<0.05	<0.005
NS_MW4	04 Jun 2025	ES2516890	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.05	<0.005	<0.05	<0.005
WDUP1	04 Jun 2025	ES2516890	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.05	<0.005	<0.05	<0.005
WTRIP1	04 Jun 2025	1230380	-	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-

Statistics																					
Number of Env Standard Exceedances			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Env Standard Exceedances (Detects Only)			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% of Detects at or above Env Standards			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% of Results Below Env Standards or Non-Detect			100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100

Table 4: Groundwater HILs



754-SYDEN394033
Ausgrid Mosman

	s									Phenols										
	Carbon disulfide	Chlorobenzene	Dichlorodifluoromethane	4,6-Dinitro-o-cyclohexyl phenol	tetrachlorophenols	Iodomethane	Pentachloroethane	Trichlorofluoromethane	Vinyl acetate	3/4-Methylphenol (m/p-cresol)	Cresol Total	4-nitrophenol	2,4-dinitrophenol	4,6-dinitro-2-methylphenol	Phenols (Total Halogenated)	Phenols (Total Non Halogenated)	2,4-dimethylphenol	Phenol	2,4-dichlorophenol	4-chloro-3-methylphenol
	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
EQL	0.005	0.005	0.05	0.1	0.03	0.005	0.005	0.05	0.05	0.002	0.01	0.03	0.03	0.03	0.01	0.1	0.001	0.001	0.001	0.001
NEPM 2013 Table 1A(4) Comm/Ind HSL D GW for Vapour Intrusion, Sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NEPM 2013 Table 1A(4) Res HSL A & B GW for Vapour Intrusion, Sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Field ID	Date	Lab Report Number																				
MD_MW01	05 Jun 2025	ES2516890	<0.005	<0.005	<0.05	-	-	<0.005	<0.005	<0.05	<0.05	<0.0020	-	-	-	-	-	-	<0.0010	<0.0010	<0.0010	<0.0010
MD_MW02	04 Jun 2025	ES2516890	<0.005	<0.005	<0.05	-	-	<0.005	<0.005	<0.05	<0.05	0.0310	-	-	-	-	-	-	0.0336	0.0137	<0.0048	<0.0048
MD_MW02	04 Jun 2025	ES2516890	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MD_MW03	05 Jun 2025	ES2516890	<0.005	<0.005	<0.05	-	-	<0.005	<0.005	<0.05	<0.05	<0.0020	-	-	-	-	-	-	<0.0010	<0.0010	<0.0010	<0.0010
MD_MW03	05 Jun 2025	ES2516890	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NS_MW1	04 Jun 2025	ES2516890	<0.005	<0.005	<0.05	-	-	<0.005	<0.005	<0.05	<0.05	<0.0020	-	-	-	-	-	-	<0.0010	<0.0010	<0.0010	<0.0010
NS_MW2	04 Jun 2025	ES2516890	<0.005	<0.005	<0.05	-	-	<0.005	<0.005	<0.05	<0.05	<0.0020	-	-	-	-	-	-	<0.0010	<0.0010	<0.0010	<0.0010
NS_MW3	04 Jun 2025	ES2516890	<0.005	<0.005	<0.05	-	-	<0.005	<0.005	<0.05	<0.05	<0.0020	-	-	-	-	-	-	<0.0010	<0.0010	<0.0010	<0.0010
NS_MW4	04 Jun 2025	ES2516890	<0.005	<0.005	<0.05	-	-	<0.005	<0.005	<0.05	<0.05	<0.0020	-	-	-	-	-	-	<0.0010	<0.0010	<0.0010	<0.0010
WDUP1	04 Jun 2025	ES2516890	<0.005	<0.005	<0.05	-	-	<0.005	<0.005	<0.05	<0.05	<0.0020	-	-	-	-	-	-	<0.0010	<0.0010	<0.0010	<0.0010
WTRIP1	04 Jun 2025	1230380	-	-	-	<0.1	<0.03	-	-	-	-	-	<0.01	<0.03	<0.03	<0.03	<0.01	<0.1	<0.003	<0.003	<0.003	<0.01

Statistics																					
Number of Env Standard Exceedances			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Env Standard Exceedances (Detects Only)			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% of Detects at or above Env Standards			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% of Results Below Env Standards or Non-Detect			100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100

Table 4: Groundwater HILs



754-SYDEN394033
Ausgrid Mosman

	2,6-dichlorophenol	Pentachlorophenol	2,4,6-trichlorophenol	2-nitrophenol	2-methylphenol	2-chlorophenol	2,4,5-trichlorophenol
	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
EQL	0.001	0.002	0.001	0.001	0.001	0.001	0.001
NEPM 2013 Table 1A(4) Comm/Ind HSL D GW for Vapour Intrusion, Sand	-	-	-	-	-	-	-
NEPM 2013 Table 1A(4) Res HSL A & B GW for Vapour Intrusion, Sand	-	-	-	-	-	-	-

Field ID	Date	Lab Report Number							
MD_MW01	05 Jun 2025	ES2516890	<0.0010	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
MD_MW02	04 Jun 2025	ES2516890	<0.0048	<0.0095	<0.0048	<0.0048	0.0398	<0.0048	<0.0048
MD_MW02	04 Jun 2025	ES2516890	-	-	-	-	-	-	-
MD_MW03	05 Jun 2025	ES2516890	<0.0010	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
MD_MW03	05 Jun 2025	ES2516890	-	-	-	-	-	-	-
NS_MW1	04 Jun 2025	ES2516890	<0.0010	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
NS_MW2	04 Jun 2025	ES2516890	<0.0010	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
NS_MW3	04 Jun 2025	ES2516890	<0.0010	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
NS_MW4	04 Jun 2025	ES2516890	<0.0010	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
WDUP1	04 Jun 2025	ES2516890	<0.0010	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
WTRIP1	04 Jun 2025	1230380	<0.003	<0.01	<0.01	<0.01	<0.003	<0.003	<0.01

Statistics							
Number of Env Standard Exceedances	0	0	0	0	0	0	0
Number of Env Standard Exceedances (Detects Only)	0	0	0	0	0	0	0
% of Detects at or above Env Standards	0	0	0	0	0	0	0
% of Results Below Env Standards or Non-Detect	100	100	100	100	100	100	100



Table 5: Groundwater EILs

754-SYDEN394033
Ausgrid Mosman

	Metals								BTEX								Monocyclic			
	Arsenic (filtered)	Cadmium (filtered)	Chromium (filtered)	Copper (filtered)	Mercury (filtered)	Nickel (filtered)	Lead (filtered)	Zinc (filtered)	Benzene	Ethylbenzene	Toluene	Xylenes Total	Xylene (o)	Xylenes (m & p)	Total BTEX	Naphthalene (VOC)	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	n-Butylbenzene	iso-Propylbenzene (cumene)
	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
EQL	0.001	0.0001	0.001	0.001	0.0001	0.001	0.001	0.005	0.001	0.001	0.001	0.002	0.001	0.002	0.001	0.005	0.005	0.005	0.005	0.005
ANZG (2018) Freshwater 95% toxicant DGVs	-	0.0002	-	0.0014	0.0006	0.011	0.0034	0.008	0.95	-	-	-	0.35	-	-	-	-	-	-	-
ANZG (2018) Marine water 95% toxicant DGVs	-	0.0055	-	0.0013	0.0004	0.07	0.0044	0.015	0.7	-	-	-	-	-	-	-	-	-	-	-
NEPM 2013 Table 1C GILs, Fresh Waters	-	0.0002	-	0.0014	0.00006	0.011	0.0034	0.008	0.95	-	-	0.55	0.35	-	-	-	-	-	-	-
NEPM 2013 Table 1C GILs, Marine Waters	-	0.0007	-	0.0013	0.0001	0.007	0.0044	0.015	0.5	-	-	-	-	-	-	-	-	-	-	-

Field ID	Date	Lab Report Number																			
MD_MW01	05 Jun 2025	ES2516890	0.002	<0.0001	0.002	<0.001	<0.0001	0.003	<0.001	0.031	<0.001	<0.002	<0.002	<0.002	<0.002	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005
MD_MW02	04 Jun 2025	ES2516890	0.044	<0.0001	0.005	<0.001	<0.0001	0.003	0.002	<0.005	1.14	0.606	0.608	2.53	0.471	2.03	4.88	0.177	0.646	0.158	0.032
MD_MW03	05 Jun 2025	ES2516890	0.002	<0.0001	<0.001	<0.001	<0.0001	<0.001	<0.001	<0.005	0.003	0.013	<0.002	0.005	<0.002	0.005	0.021	0.006	0.006	<0.005	<0.005
NS_MW1	04 Jun 2025	ES2516890	0.009	<0.0001	0.002	<0.001	<0.0001	0.004	<0.001	0.007	<0.001	<0.002	<0.002	<0.002	<0.002	<0.001	<0.005	<0.005	<0.005	<0.005	0.007
NS_MW2	04 Jun 2025	ES2516890	<0.001	<0.0001	0.003	0.001	<0.0001	0.009	<0.001	0.042	<0.001	<0.002	<0.002	<0.002	<0.002	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005
NS_MW3	04 Jun 2025	ES2516890	<0.001	<0.0001	0.001	0.003	<0.0001	0.009	<0.001	0.038	<0.001	<0.002	<0.002	<0.002	<0.002	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005
NS_MW4	04 Jun 2025	ES2516890	<0.001	<0.0001	0.002	<0.001	0.0002	0.005	<0.001	0.011	<0.001	<0.002	<0.002	<0.002	<0.002	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005
WDUP1 (Dup of NS_MW1)	04 Jun 2025	ES2516890	0.009	<0.0001	<0.001	<0.001	<0.0001	<0.001	<0.001	0.007	<0.001	<0.002	<0.002	<0.002	<0.002	<0.001	<0.005	<0.005	<0.005	<0.005	0.008
WTRIP1 (Dup of NS_MW1)	04 Jun 2025	1230380	0.009	<0.0002	<0.001	<0.001	<0.0001	<0.001	<0.001	0.007	<0.001	<0.001	<0.001	<0.003	<0.001	<0.002	-	<0.01	-	-	-

Environmental Standards
ANZG, 2018, ANZG (2018) Freshwater 95% toxicant DGVs
ANZG, 2018, ANZG (2018) Marine water 95% toxicant DGVs



Table 5: Groundwater EILs

754-SYDEN394033
Ausgrid Mosman

	Aromatic Hydrocarbons					Polycyclic Aromatic Hydrocarbons														
	n-Propylbenzene	sec-Butylbenzene	tert-Butylbenzene	Styrene	p-Isopropyltoluene	Benzo(a)pyrene TEQ calc (Zero)	Anthracene	Pyrene	Benzo(g,h,i)perylene	Indeno(1,2,3-c,d)pyrene	Benzo(b+i)fluoranthene	Fluoranthene	Benzo(k)fluoranthene	Acenaphthylene	Chrysene	Benzo(a) pyrene	Dibenz(a,h)anthracene	Benz(a)anthracene	Acenaphthene	Phenanthrene
	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
EQL	0.005	0.005	0.005	0.005	0.005	0.0005	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.0005	0.001	0.001	0.001	0.001
ANZG (2018) Freshwater 95% toxicant DGVs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ANZG (2018) Marine water 95% toxicant DGVs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NEPM 2013 Table 1C GILs, Fresh Waters	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NEPM 2013 Table 1C GILs, Marine Waters	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Field ID	Date	Lab Report Number																				
MD_MW01	05 Jun 2025	ES2516890	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0005	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0005	<0.0010	<0.0010	<0.0010	<0.0010	
MD_MW02	04 Jun 2025	ES2516890	0.072	<0.005	0.074	<0.005	<0.005	<0.0024	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	
MD_MW03	05 Jun 2025	ES2516890	<0.005	0.006	<0.005	<0.005	<0.005	<0.0005	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0005	<0.0010	<0.0010	<0.0010	<0.0010	
NS_MW1	04 Jun 2025	ES2516890	0.012	<0.005	<0.005	<0.005	<0.005	<0.0005	0.0018	0.0038	<0.0010	<0.0010	<0.0010	0.0064	<0.0010	<0.0010	<0.0010	<0.0005	<0.0010	<0.0010	0.0223	0.0216
NS_MW2	04 Jun 2025	ES2516890	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0005	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0005	<0.0010	<0.0010	<0.0010	<0.0010	
NS_MW3	04 Jun 2025	ES2516890	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0005	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0005	<0.0010	<0.0010	<0.0010	<0.0010	
NS_MW4	04 Jun 2025	ES2516890	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0005	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0005	<0.0010	<0.0010	<0.0010	<0.0010	
WDUP1 (Dup of NS_MW1)	04 Jun 2025	ES2516890	0.014	<0.005	<0.005	<0.005	<0.005	<0.0005	0.0018	0.0033	<0.0010	<0.0010	<0.0010	0.0057	<0.0010	<0.0010	<0.0010	<0.0005	<0.0010	<0.0010	0.0222	0.0203
WTRIP1 (Dup of NS_MW1)	04 Jun 2025	1230380	-	-	-	-	-	-	0.002	0.003	<0.001	<0.001	<0.001	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.025	0.021

Environmental Standards
ANZG, 2018, ANZG (2018) Freshwater 95% toxicant DGVs
ANZG, 2018, ANZG (2018) Marine water 95% toxicant DGVs



Table 5: Groundwater EILs

754-SYDEN394033
Ausgrid Mosman

				Total Recoverable Hydrocarbons							Total Petroleum Hydrocarbons									
	Fluorene	PAHs (Sum of total)	Naphthalene	F1 (C6-C10)	F1 (C6-C10) less BTEX	F2 (C10-C16 Hydrocarbons)	F3 (C16-C34 Hydrocarbons)	C34-C40	C10 - C40 (Sum of total)	F2 C10-C16 (minus Naphthalene)	C6 - C9	C10 - C14	C15 - C28	C29-C36	+C10 - C36 (Sum of total)	1,1,1,2-tetrachloroethane	1,1,1-trichloroethane	1,1,2,2-tetrachloroethane	1,1-dichloroethane	1,1-dichloroethene
	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
EQL	0.001	0.0005	0.001	0.02	0.02	0.05	0.1	0.1	0.1	0.05	0.02	0.05	0.1	0.05	0.05	0.005	0.005	0.005	0.005	0.005
ANZG (2018) Freshwater 95% toxicant DGVs	-	-	0.016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ANZG (2018) Marine water 95% toxicant DGVs	-	-	0.07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NEPM 2013 Table 1C GILs, Fresh Waters	-	-	0.016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NEPM 2013 Table 1C GILs, Marine Waters	-	-	0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Field ID	Date	Lab Report Number																			
MD_MW01	05 Jun 2025	ES2516890	<0.0010	<0.0005	<0.0010	0.03	0.03	<0.1	<0.1	<0.1	<0.1	<0.1	0.03	<0.05	<0.1	<0.05	<0.05	<0.005	<0.005	<0.005	<0.005
MD_MW02	04 Jun 2025	ES2516890	<0.0048	0.12	0.12	7.62	2.74	1.74	<0.1	<0.1	<0.1	1.74	1.56	7.44	2.68	0.21	<0.05	2.89	<0.005	<0.005	<0.005
MD_MW03	05 Jun 2025	ES2516890	<0.0010	0.0047	0.0047	0.12	0.1	0.31	0.11	<0.1	0.42	0.3	0.1	0.28	0.18	<0.05	0.46	<0.005	<0.005	<0.005	<0.005
NS_MW1	04 Jun 2025	ES2516890	0.0166	0.0743	0.0018	0.12	0.12	0.81	0.41	<0.1	1.22	0.81	0.09	0.66	0.6	<0.05	1.26	<0.005	<0.005	<0.005	<0.005
NS_MW2	04 Jun 2025	ES2516890	<0.0010	<0.0005	<0.0010	<0.02	<0.02	<0.1	<0.1	<0.1	<0.1	<0.1	<0.02	<0.05	<0.1	<0.05	<0.05	<0.005	<0.005	<0.005	<0.005
NS_MW3	04 Jun 2025	ES2516890	<0.0010	<0.0005	<0.0010	<0.02	<0.02	<0.1	<0.1	<0.1	<0.1	<0.1	<0.02	<0.05	<0.1	<0.05	<0.05	<0.005	<0.005	<0.005	<0.005
NS_MW4	04 Jun 2025	ES2516890	<0.0010	<0.0005	<0.0010	<0.02	<0.02	<0.1	<0.1	<0.1	<0.1	<0.1	<0.02	<0.05	<0.1	<0.05	<0.05	<0.005	<0.005	<0.005	<0.005
WDUP1 (Dup of NS_MW1)	04 Jun 2025	ES2516890	0.0164	0.0715	0.0018	0.14	0.14	0.86	0.29	<0.1	1.15	0.86	0.11	0.7	0.48	<0.05	1.18	<0.005	<0.005	<0.005	<0.005
WTRIP1 (Dup of NS_MW1)	04 Jun 2025	1230380	0.018	0.077	0.003	0.13	0.13	1.1	0.4	<0.1	1.5	1.1	0.07	1.0	0.7	<0.1	1.7	-	-	-	-

Environmental Standards
ANZG, 2018, ANZG (2018) Freshwater 95% toxicant DGVs
ANZG, 2018, ANZG (2018) Marine water 95% toxicant DGVs



Table 5: Groundwater EILs

754-SYDEN394033
Ausgrid Mosman

	Chlorinated Hydrocarbons																			
	1,1-dichloropropene	1,2,3-trichloropropane	1,2-dibromo-3-chloropropane	1,2-dichloroethane	1,2-dichloropropane	1,1,2-trichloroethane	2,2-dichloropropane	Bromodichloromethane	Bromoform	Carbon tetrachloride	Chlorodibromomethane	Chloroethane	1,3-dichloropropane	Chloroform	Chloromethane	cis-1,2-dichloroethene	cis-1,3-dichloropropene	Dibromomethane	Hexachlorobutadiene	Tetrachloroethene
	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
EQL	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.05	0.005	0.005	0.05	0.005	0.005	0.005	0.005	0.005
ANZG (2018) Freshwater 95% toxicant DGVs	-	-	-	-	-	6.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ANZG (2018) Marine water 95% toxicant DGVs	-	-	-	-	-	1.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NEPM 2013 Table 1C GILs, Fresh Waters	-	-	-	-	-	6.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NEPM 2013 Table 1C GILs, Marine Waters	-	-	-	-	-	1.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Field ID	Date	Lab Report Number																		
MD_MW01	05 Jun 2025	ES2516890	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.005
MD_MW02	04 Jun 2025	ES2516890	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.005
MD_MW03	05 Jun 2025	ES2516890	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.005
NS_MW1	04 Jun 2025	ES2516890	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.005
NS_MW2	04 Jun 2025	ES2516890	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.005
NS_MW3	04 Jun 2025	ES2516890	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.005
NS_MW4	04 Jun 2025	ES2516890	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.005
WDUP1 (Dup of NS_MW1)	04 Jun 2025	ES2516890	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.005
WTRIP1 (Dup of NS_MW1)	04 Jun 2025	1230380	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Environmental Standards
ANZG, 2018, ANZG (2018) Freshwater 95% toxicant DGVs
ANZG, 2018, ANZG (2018) Marine water 95% toxicant DGVs

Table 5: Groundwater EILs



754-SYDEN394033
Ausgrid Mosman

					Semivolatile Organic Compounds					Volatile Organic Compound										
	trans-1,2-dichloroethene	trans-1,3-dichloropropene	Trichloroethene	Vinyl chloride	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,2,4-Trichlorobenzene	Dinoseb	1,2,3-Trichlorobenzene	1,4-Dichloro-2-Butene [cis]	1,4-Dichloro-2-Butene [trans]	2-Butanone (MEK)	1,2-Dibromoethane	4-Chlorotoluene	4-Methyl-2-pentanone (MIBK)	2-Chlorotoluene	2-Hexanone (MBK)	Bromobenzene	Bromomethane
	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
EQL	0.005	0.005	0.005	0.05	0.005	0.005	0.005	0.005	0.1	0.005	0.005	0.005	0.05	0.005	0.005	0.05	0.005	0.05	0.005	0.05
ANZG (2018) Freshwater 95% toxicant DGVs	-	-	-	-	0.16	0.26	0.06	0.17	-	0.01	-	-	-	-	-	-	-	-	-	-
ANZG (2018) Marine water 95% toxicant DGVs	-	-	-	-	-	-	-	0.08	-	-	-	-	-	-	-	-	-	-	-	-
NEPM 2013 Table 1C GILs, Fresh Waters	-	-	-	-	0.16	0.26	0.06	0.085	-	0.003	-	-	-	-	-	-	-	-	-	-
NEPM 2013 Table 1C GILs, Marine Waters	-	-	-	-	-	-	-	0.02	-	-	-	-	-	-	-	-	-	-	-	-

Field ID	Date	Lab Report Number																			
MD_MW01	05 Jun 2025	ES2516890	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.05	<0.005	<0.05	<0.005
MD_MW02	04 Jun 2025	ES2516890	<0.005	<0.005	<0.005	<0.05	0.006	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.05	<0.005	<0.05	<0.005
MD_MW03	05 Jun 2025	ES2516890	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.05	<0.005	<0.05	<0.005
NS_MW1	04 Jun 2025	ES2516890	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.05	<0.005	<0.05	<0.005
NS_MW2	04 Jun 2025	ES2516890	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.05	<0.005	<0.05	<0.005
NS_MW3	04 Jun 2025	ES2516890	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.05	<0.005	<0.05	<0.005
NS_MW4	04 Jun 2025	ES2516890	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.05	<0.005	<0.05	<0.005
WDUP1 (Dup of NS_MW1)	04 Jun 2025	ES2516890	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.05	<0.005	<0.05	<0.005
WTRIP1 (Dup of NS_MW1)	04 Jun 2025	1230380	-	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-

Environmental Standards
ANZG, 2018, ANZG (2018) Freshwater 95% toxicant DGVs
ANZG, 2018, ANZG (2018) Marine water 95% toxicant DGVs



Table 5: Groundwater EILs

754-SYDEN394033
Ausgrid Mosman

	s									Phenols										
	Carbon disulfide	Chlorobenzene	Dichlorodifluoromethane	4,6-Dinitro-o-cyclohexyl phenol	tetrachlorophenols	Iodomethane	Pentachloroethane	Trichlorofluoromethane	Vinyl acetate	3/4-Methylphenol (m/p-cresol)	Cresol Total	4-nitrophenol	2,4-dinitrophenol	4,6-dinitro-2-methylphenol	Phenols (Total Halogenated)	Phenols (Total Non Halogenated)	2,4-dimethylphenol	Phenol	2,4-dichlorophenol	4-chloro-3-methylphenol
	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
EQL	0.005	0.005	0.05	0.1	0.03	0.005	0.005	0.05	0.05	0.002	0.01	0.03	0.03	0.03	0.01	0.1	0.001	0.001	0.001	0.001
ANZG (2018) Freshwater 95% toxicant DGVs	-	-	-	-	-	-	-	-	-	-	-	-	0.045	-	-	-	-	0.32	0.16	-
ANZG (2018) Marine water 95% toxicant DGVs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.4	-	-
NEPM 2013 Table 1C GILs, Fresh Waters	-	-	-	-	-	-	-	-	-	-	-	-	0.045	-	-	-	-	0.32	0.12	-
NEPM 2013 Table 1C GILs, Marine Waters	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.4	-	-

Field ID	Date	Lab Report Number																		
MD_MW01	05 Jun 2025	ES2516890	<0.005	<0.005	<0.05	-	-	<0.005	<0.005	<0.05	<0.05	<0.0020	-	-	-	-	-	<0.0010	<0.0010	<0.0010
MD_MW02	04 Jun 2025	ES2516890	<0.005	<0.005	<0.05	-	-	<0.005	<0.005	<0.05	<0.05	0.0310	-	-	-	-	-	0.0336	0.0137	<0.0048
MD_MW03	05 Jun 2025	ES2516890	<0.005	<0.005	<0.05	-	-	<0.005	<0.005	<0.05	<0.05	<0.0020	-	-	-	-	-	<0.0010	<0.0010	<0.0010
NS_MW1	04 Jun 2025	ES2516890	<0.005	<0.005	<0.05	-	-	<0.005	<0.005	<0.05	<0.05	<0.0020	-	-	-	-	-	<0.0010	<0.0010	<0.0010
NS_MW2	04 Jun 2025	ES2516890	<0.005	<0.005	<0.05	-	-	<0.005	<0.005	<0.05	<0.05	<0.0020	-	-	-	-	-	<0.0010	<0.0010	<0.0010
NS_MW3	04 Jun 2025	ES2516890	<0.005	<0.005	<0.05	-	-	<0.005	<0.005	<0.05	<0.05	<0.0020	-	-	-	-	-	<0.0010	<0.0010	<0.0010
NS_MW4	04 Jun 2025	ES2516890	<0.005	<0.005	<0.05	-	-	<0.005	<0.005	<0.05	<0.05	<0.0020	-	-	-	-	-	<0.0010	<0.0010	<0.0010
WDUP1 (Dup of NS_MW1)	04 Jun 2025	ES2516890	<0.005	<0.005	<0.05	-	-	<0.005	<0.005	<0.05	<0.05	<0.0020	-	-	-	-	-	<0.0010	<0.0010	<0.0010
WTRIP1 (Dup of NS_MW1)	04 Jun 2025	1230380	-	-	-	<0.1	<0.03	-	-	-	-	-	<0.01	<0.03	<0.03	<0.03	<0.01	<0.1	<0.003	<0.003

Environmental Standards
ANZG, 2018, ANZG (2018) Freshwater 95% toxicant DGVs
ANZG, 2018, ANZG (2018) Marine water 95% toxicant DGVs



Table 5: Groundwater EILs

754-SYDEN394033
Ausgrid Mosman

	2,6-dichlorophenol	Pentachlorophenol	2,4,6-trichlorophenol	2-nitrophenol	2-methylphenol	2-chlorophenol	2,4,5-trichlorophenol
	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
EQL	0.001	0.002	0.001	0.001	0.001	0.001	0.001
ANZG (2018) Freshwater 95% toxicant DGVs	-	0.01	0.02	-	-	0.49	-
ANZG (2018) Marine water 95% toxicant DGVs	-	0.022	-	-	-	-	-
NEPM 2013 Table 1C GILs, Fresh Waters	-	0.0036	0.003	-	-	0.34	-
NEPM 2013 Table 1C GILs, Marine Waters	-	0.011	-	-	-	-	-

Field ID	Date	Lab Report Number							
MD_MW01	05 Jun 2025	ES2516890	<0.0010	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
MD_MW02	04 Jun 2025	ES2516890	<0.0048	<0.0095	<0.0048	<0.0048	0.0398	<0.0048	<0.0048
MD_MW03	05 Jun 2025	ES2516890	<0.0010	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
NS_MW1	04 Jun 2025	ES2516890	<0.0010	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
NS_MW2	04 Jun 2025	ES2516890	<0.0010	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
NS_MW3	04 Jun 2025	ES2516890	<0.0010	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
NS_MW4	04 Jun 2025	ES2516890	<0.0010	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
WDUP1 (Dup of NS_MW1)	04 Jun 2025	ES2516890	<0.0010	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
WTRIP1 (Dup of NS_MW1)	04 Jun 2025	1230380	<0.003	<0.01	<0.01	<0.01	<0.003	<0.003	<0.01

Environmental Standards
ANZG, 2018, ANZG (2018) Freshwater 95% toxicant DGVs
ANZG, 2018, ANZG (2018) Marine water 95% toxicant DGVs

Table 17. Total Recoverable Hydrocarbon (TRH) analytical results. Not Limiting (NL), Clay (C), Silt (Si), Sand (Sa), Fine (F), Coarse (C)

Assessment Criteria			TRH C ₆ -C ₁₀	TRH C ₆ -C ₁₀ - BTEX (F1)	TRH >C ₁₀ -C ₁₆	TRH >C ₁₀ -C ₁₆ - N (F2)	TRH >C ₁₆ -C ₃₄ (F3)	TRH >C ₃₄ -C ₄₀ (F4)
NEPM 2013 Commercial/Industrial Soil HSL-D for Vapour Intrusion, 0-<1m depth, Clay, Silt, Sand , mg/kg				310 (C), 250 (Si), 260 (Sa)		NL		
NEPM 2013 Commercial/Industrial Soil HSL-D for Vapour Intrusion, 1-<2m depth, Clay, Silt, Sand , mg/kg				480 (C), 360 (Si), 370 (Sa)		NL		
NEPM 2013 Commercial/Industrial Soil HSL-D for Vapour Intrusion, 2-<4m depth, Clay, Silt, Sand , mg/kg				NL(C), 590 (Si), 630 (Sa)		NL		
NEPM 2013 Commercial/Industrial Soil HSL-D for Vapour Intrusion, 4m+ depth, Clay, Silt, Sand , mg/kg				NL		NL		
NEPM 2013 Soil Generic ESL for Commercial/Industrial, Fine and Coarse-grained soil, mg/kg (0-<2m)			215 (F, C)		170 (F, C)		2500 (F), 1700 (C)	6600 (F), 3300 (C)
NEPM 2013 Management Limits for Commercial/Industrial, Fine and Coarse-grained soil, mg/kg			800 (F), 700 (C)		1000 (F, C)		5000 (F), 3500(C)	10 000(F, C)
Sample	Depth (m)	Texture	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
BH1	0.2-0.3	Sand	37	37	<25	<25	260	<120
BH2	0.2-0.3	Clay	<25	<25	<25	<25	160	<120
BH3	0.2-0.3	Sand	<25	<25	<25	<25	<90	<120

Table 18. Benzene, Toluene, Ethylbenzene and Xylene (BTEX) analytical results. Not Limiting (NL), Clay (C), Silt (Si), Sand (Sa), Fine (F), Coarse (C).

Assessment Criteria			Benzene	Toluene	Ethylbenzene	Xylenes
NEPM 2013 Commercial/Industrial Soil HSL-D for Vapour Intrusion, 0- <1m depth, Clay, Silt, Sand , mg/kg			4(C, Si), 3 (Sa)	NL	NL	NL (C, Si), 230 (Sa)
NEPM 2013 Commercial/Industrial Soil HSL-D for Vapour Intrusion, 1- <2m depth, Clay, Silt, Sand , mg/kg			6(C), 4(Si), 3 (Sa)	NL	NL	NL
NEPM 2013 Commercial/Industrial Soil HSL-D for Vapour Intrusion, 2- <4m depth, Clay, Silt, Sand , mg/kg			9(C), 6(Si), 3 (Sa)	NL	NL	NL
NEPM 2013 Commercial/Industrial Soil HSL-D for Vapour Intrusion, 2- 4+m depth, Clay, Silt, Sand , mg/kg			20(C), 10 (Si), 3 (Sa)	NL	NL	NL
NEPM 2013 Soil ESL for Commercial/Industrial, Fine and Coarse- grained soil, mg/kg (0-<2m)			95 (F), 75 (C)	135 (F, C)	185), 165 (C)	95 (F), 180 (C)
Sample	Depth (m)	Texture	mg/kg	mg/kg	mg/kg	mg/kg
BH1	0.2-0.3	Sand	<0.1	<0.1	<0.1	<0.2
BH2	0.2-0.3	Clay	0.1	<0.1	<0.1	0.4
BH3	0.2-0.3	Sand	<0.1	<0.1	<0.1	<0.2

Table 19. Polycyclic Aromatic Hydrocarbon (PAH), Phenols and Cyanide analytical results.(N.A.=Not Analysed)

Assessment Criteria			Naphthalene	Benzo(a)pyrene	Carcinogenic PAH (as BaP TEQ)	Total PAH (18)
NEPM 2013 Soil Generic EIL for Commercial/Industrial, mg/kg (0-<2m)			370			
Soil ESL for Commercial/Industrial, Fine and Coarse-grained soil, mg/kg (0-<2m)				1.4		
NEPM 2013 Commercial/Industrial Soil HIL-D, mg/kg				1.00 TEF	40	4000
Sample	Depth (m)	Texture	mg/kg	mg/kg	TEQ (mg/kg)	mg/kg
BH1	0.2-0.3	Sand	<0.1	<0.1	<0.3	<0.8
BH2	0.2-0.3	Clay	<0.1	0.1	<0.3	<0.8
BH3	0.2-0.3	Sand	<0.1	<0.1	<0.3	<0.8

Table 20. Metals analytical results.

Assessment Criteria		Arsenic, As	Cadmium, Cd	Chromium, Cr	Copper, Cu	Lead, Pb	Nickel, Ni	Zinc, Zn	Mercury, Hg
NEPM 2013 Commercial/Industrial Soil HIL-D, mg/kg		3000	900	3600	240 000	1500	6000	400 000	730
NEPM 2013 Soil Generic EIL for Commercial/Industrial, mg/kg		160				1800			
Sample	Depth (m)	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
BH1	0.2-0.3	2	<0.3	4.6	4.1	12	0.9	6.0	<0.05
BH2	0.2-0.3	3	<0.3	23	1.9	24	1.2	22	<0.05
BH3	0.2-0.3	3	<0.3	31	7.8	14	5.2	18	<0.05

Table 21. Groundwater analytical results.

Assessment Criteria	TRH C ₆ -C ₁₀ - BTEX (F1)	TRH >C ₁₀ -C ₁₆ - N (F2)	Benzene	Toluene	Ethylbenzene	Xylenes	Naphthalene	Benzo(a)pyrene
NEPM 2013 Commercial/Industrial Groundwater HSL-D for Vapour Intrusion, 2-<8m depth, Sand, µg/L	6,000	NL	5,000	NL	NL	NL	NL	
EPM 2013 GIL Marine Waters, µg/L			500C	-	-	-	50C	-
MW1	130	560	2.8	<0.5	10	2.5	7.9	<0.1
MW2	19000	2400	3100	2500	1500	8200	530	<0.1
MW3	190	72	<0.5	<0.5	<0.5	<1.5	0.7	<0.1

NEPM Assessment Criteria	Arsenic	Cadmium	Chromium	Copper	Lead	Nickel	Zinc	Mercury
NEPM 2013 GIL Marine Waters, µg/L	-	0.7	27	1.3	4.4	7	15	0.1
MW1	<1	<0.1	<1	<1	<1	<1	5	<0.1
MW2	14	<0.1	<1	<1	16	<1	<5	<0.1
MW3	<1	<0.1	<1	<1	<1	<1	<5	<0.1

Table C1: Summary of laboratory results - soil contaminated land

Sample ID	Depth	Sampled date	Soil description	Original sample ID in original report	Investigation Report	Metals										TRH (NEPM 2013)						BTEXN (all)		
						Arsenic	Cadmium	Chromium (Total)	Copper	Lead	Lead TCLP	Mercury	Nickel	Nickel TCLP	Zinc	TRH C6-C10	TRH >C10-C16	TRH F1 (C6-C10 minus BTEX)	TRH F2 (>C10-C16 minus naphthalene)	TRH F3 (>C16-C34)	TRH F4 >C34-C40	Benzene	Toluene	Ethylbenzene
Units						mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/L	mg/kg	mg/kg	mg/L	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	
PQL						1	0.3	1	1	1	0.03	0.05	1	0.02	1	25	25	25	25	90	100	0.1	0.1	0.1
HIL-B						500	150	500	30,000	1,200	-	120	1,200	-	60,000	-	-	-	-	-	-	-	-	-
HIL-B (HEPA, 2025)						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HSL-B						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HSL-A & B Clay <1m (Applied to residential ground floor footprint)						-	-	-	-	-	-	-	-	-	-	-	50	280	-	-	0.7	480	NL	
HSL-D Clay <1m (applied to commercial ground floor footprint)						-	-	-	-	-	-	-	-	-	-	-	-	310	NL	-	-	4	NL	NL
EIL, Urban residential & public open space						100	-	-	160	1,100	-	-	80	-	430	-	-	-	-	-	-	-	-	-
ESL-A-B-C Fine						-	-	-	-	-	-	-	-	-	-	-	120	180	-	1,300	5,600	65	105	125
EGV Direct, all land uses						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EGV Indirect, all land uses						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ML-A-B-C Fine						-	-	-	-	-	-	-	-	-	-	800	1,000	-	-	3,500	10,000	-	-	-
Test Locations within Residential / Garden Groundfloor Footprint (also includes locations in close proximity to these areas)																								
BH101	0.15m - 0.2m	16/03/26	FILL / Sandy SILT	-	Douglas (Current)	15	2	45	340	1,700	3.5	0.3	35	-	2,200	< 25	67	< 25	67	870	450	< 0.2	< 0.5	< 1
BH101	0.3m - 0.5m	16/03/26	Silty CLAY	-	Douglas (Current)	-	-	-	-	11	-	-	-	-	-	< 25	< 50	< 25	< 50	< 100	< 100	< 0.2	< 0.5	< 1
BH102	0.5m - 0.65m	16/03/26	FILL / Sandy GRAVEL	-	Douglas (Current)	6	0.5	19	160	110	< 0.03	< 0.1	36	-	160	< 25	< 50	< 25	< 50	2,200	390	< 0.2	< 0.5	< 1
BH102	0.7m - 0.9m	16/03/26	Silty CLAY	-	Douglas (Current)	-	-	-	-	-	-	-	-	-	-	< 25	< 50	< 25	< 50	< 100	< 100	< 0.2	< 0.5	< 1
BH103	0.11m - 0.3m	16/03/26	FILL / Gravelly CLAY	-	Douglas (Current)	< 4	< 0.4	16	100	75	-	< 0.1	79	0.06	56	< 25	< 50	< 25	< 50	150	140	< 0.2	< 0.5	< 1
BH103	0.4m - 0.6m	16/03/26	FILL / Silty CLAY	-	Douglas (Current)	8	< 0.4	28	< 1	25	-	< 0.1	< 1	-	3	< 25	< 50	< 25	< 50	< 100	< 100	< 0.2	< 0.5	< 1
BH103	1.2m - 1.4m	16/03/26	Silty CLAY	-	Douglas (Current)	8	< 0.4	20	< 1	17	-	< 0.1	< 1	-	< 1	< 25	< 50	< 25	< 50	< 100	< 100	< 0.2	< 0.5	< 1
BH104	0.15m - 0.3m	16/03/26	FILL / Silty CLAY	-	Douglas (Current)	< 4	< 0.4	6	8	35	-	< 0.1	1	-	150	< 25	< 50	< 25	< 50	310	< 100	< 0.2	< 0.5	< 1
BH104	1.4m - 1.6m	16/03/26	FILL / Silty CLAY	-	Douglas (Current)	4	< 0.4	16	30	91	-	< 0.1	6	-	130	< 25	< 50	< 25	< 50	360	< 100	< 0.2	< 0.5	< 1
BD1/12032026	1.4m - 1.6m	16/03/26	FILL / Silty CLAY	-	Douglas (Current)	< 4	< 0.4	5	7	59	-	< 0.1	3	-	83	< 25	< 50	< 25	< 50	100	< 100	< 0.2	< 0.5	< 1
BH104	2m - 2.2m	16/03/26	Clayey SILT	-	Douglas (Current)	-	-	-	-	-	-	-	-	-	-	< 25	< 50	< 25	< 50	< 100	< 100	< 0.2	< 0.5	< 1
BH107	0.05m - 0.15m	13/03/26	FILL / Gravelly SAND	-	Douglas (Current)	< 4	< 0.4	14	89	4	-	< 0.1	57	0.07	37	< 25	< 50	< 25	< 50	100	120	< 0.2	< 0.5	< 1
BH107	0.4m - 0.5m	13/03/26	FILL / CLAY	-	Douglas (Current)	9	< 0.4	54	10	37	-	< 0.1	8	-	15	< 25	< 50	< 25	< 50	< 100	< 100	< 0.2	< 0.5	< 1
TTC BH8	0.13m - 0.23m	27/05/25	FILL / Silty Sandy GRAVELLY CLAY	BH8	TTC (2025b)	< 5	< 1	11	23	67	-	< 0.1	4	-	92	< 10	< 50	< 10	< 50	210	< 100	< 0.2	< 0.5	< 0.5
TTC BH8	0.8m - 0.9m	27/05/25	FILL / Silty CLAY	BH8	TTC (2025b)	< 5	< 1	8	11	41	-	< 0.1	2	-	82	< 10	< 50	< 10	< 50	120	< 100	< 0.2	< 0.5	< 0.5
TTC BH9	0.15m - 0.3m	27/05/25	FILL / Silty Gravelly CLAY	BH9	TTC (2025b)	< 5	< 1	12	18	42	-	< 0.1	6	-	63	< 10	< 50	< 10	< 50	< 100	< 100	< 0.2	< 0.5	< 0.5
TTC BH10	0.13m - 0.23m	27/05/25	FILL / Silty Gravelly CLAY	BH10	TTC (2025b)	8	< 1	10	17	48	-	< 0.1	3	-	55	< 10	< 50	< 10	< 50	< 100	< 100	< 0.2	< 0.5	< 0.5
TTC BH10	0.6m - 0.8m	27/05/25	FILL / Silty CLAY	BH10	TTC (2025b)	< 5	< 1	29	27	68	-	< 0.1	12	-	99	< 10	< 50	< 10	< 50	< 100	< 100	< 0.2	< 0.5	< 0.5
TTC BH11	0.08m - 0.4m	27/05/25	FILL / Silty Gravelly CLAY	BH11	TTC (2025b)	< 5	< 1	45	53	56	-	< 0.1	24	-	87	< 10	< 50	< 10	< 50	130	< 100	< 0.2	< 0.5	< 0.5
TTC BH12	0.13m - 0.23m	27/05/25	FILL / Silty Sandy GRAVELLY CLAY	BH12	TTC (2025b)	< 5	< 1	20	86	16	-	< 0.1	85	-	53	< 10	< 50	< 10	< 50	170	< 100	< 0.2	< 0.5	< 0.5
TTC BH12	0.4m - 0.5m	27/05/25	FILL / Silty Sandy GRAVELLY CLAY	BH12	TTC (2025b)	< 5	< 1	27	69	14	-	< 0.1	77	-	43	< 10	< 50	< 10	< 50	120	< 100	< 0.2	< 0.5	< 0.5
TTC BH13	0.13m - 0.23m	27/05/25	FILL / Silty Sandy GRAVELLY CLAY	BH13	TTC (2025b)	< 5	< 1	17	30	49	-	< 0.1	8	-	54	< 10	< 50	< 10	< 50	< 100	< 100	< 0.2	< 0.5	< 0.5
TTC BH14	0.13m - 0.2m	27/05/25	FILL / Silty CLAY	BH14	TTC (2025b)	< 5	< 1	14	45	69	-	< 0.1	< 2	-	143	< 10	< 50	< 10	< 50	400	< 100	< 0.2	< 0.5	< 0.5
TTC BH14	0.6m - 0.8m	27/05/25	Silty CLAY	BH14	TTC (2025b)	5	< 1	34	< 5	34	-	< 0.1	< 2	-	< 5	< 10	< 50	< 10	< 50	< 100	< 100	< 0.2	< 0.5	< 0.5
TTC BH15	0.4m - 0.5m	27/05/25	Sandy CLAY	BH15	TTC (2025b)	9	< 1	31	< 5	24	-	< 0.1	< 2	-	< 5	< 10	< 50	< 10	< 50	< 100	< 100	< 0.2	< 0.5	< 0.5
TTC BH16	0.23m - 0.3m	27/05/25	Silty CLAY	BH16	TTC (2025b)	6	< 1	20	74	228	-	< 0.1	10	-	83	< 10	< 50	< 10	< 50	340	< 100	< 0.2	< 0.5	< 0.5
TTC BH16	0.4m - 0.6m	27/05/25	Silty CLAY	BH16	TTC (2025b)	6	< 1	37	7	53	-	< 0.1	3	-	16	< 10	< 50	< 10	< 50	< 100	< 100	< 0.2	< 0.5	< 0.5
TTC BH17	0.13m - 0.23m	27/05/25	FILL / Silty CLAY	BH17	TTC (2025b)	14	< 1	29	821	245	-	< 0.1	24	-	165	< 10	< 50	< 10	< 50	2,190	600	< 0.2	< 0.5	< 0.5
TTC BH17	0.4m - 0.5m	27/05/25	Silty CLAY	BH17	TTC (2025b)	10	< 1	59	61	84	-	< 0.1	5	-	24	< 10	< 50	< 10	< 50	790	230	< 0.2	< 0.5	< 0.5

Table C1: Summary of laboratory results - soil contaminated land

Sample ID	Depth	Sampled date	Soil description	Original sample ID in original report	Investigation Report	Metals										TRH (NEPM 2013)						BTEXN (all)		
						Arsenic	Cadmium	Chromium (Total)	Copper	Lead	Lead TCLP	Mercury	Nickel	Nickel TCLP	Zinc	TRH C6-C10	TRH >C10-C16	TRH F1 (C6-C10 minus BTEX)	TRH F2 (>C10-C16 minus naphthalene)	TRH F3 (>C16-C34)	TRH F4 >C34-C40	Benzene	Toluene	Ethylbenzene
Units						mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/L	mg/kg	mg/kg	mg/L	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	
PQL						1	0.3	1	1	1	0.03	0.05	1	0.02	1	25	25	25	25	90	100	0.1	0.1	0.1
HIL-B						500	150	500	30,000	1,200	-	120	1,200	-	60,000	-	-	-	-	-	-	-	-	-
HIL-B (HEPA, 2025)						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HSL-B						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HSL-A & B Clay <1m (Applied to residential ground floor footprint)						-	-	-	-	-	-	-	-	-	-	-	50	280	-	-	0.7	480	NL	
HSL-D Clay <1m (applied to commercial ground floor footprint)						-	-	-	-	-	-	-	-	-	-	-	310	NL	-	-	4	NL	NL	
EIL, Urban residential & public open space						100	-	-	160	1,100	-	-	80	-	430	-	-	-	-	-	-	-	-	-
ESL-A-B-C Fine						-	-	-	-	-	-	-	-	-	-	-	120	180	-	1,300	5,600	65	105	125
EGV Direct, all land uses						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EGV Indirect, all land uses						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ML-A-B-C Fine						-	-	-	-	-	-	-	-	-	-	800	1,000	-	-	3,500	10,000	-	-	-
Test Locations within Commercial / Retail Groundfloor Footprint																								
BH105	0.4m - 0.5m	13/03/26	FILL / Sandy GRAVEL	-	Douglas (Current)	11	< 0.4	29	10	36	-	< 0.1	4	-	29	< 25	< 50	< 25	< 50	< 100	< 100	< 0.2	< 0.5	< 1
BH105	0.9m - 1m	13/03/26	FILL / Sandy CLAY	-	Douglas (Current)	14	< 0.4	18	2	7	-	< 0.1	2	-	4	< 25	< 50	< 25	< 50	< 100	< 100	< 0.2	< 0.5	< 1
BH106	0.1m - 0.2m	13/03/26	FILL / Sandy GRAVEL	-	Douglas (Current)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH106	0.4m - 0.5m	13/03/26	FILL / Sandy GRAVEL	-	Douglas (Current)	< 4	< 0.4	11	13	93	-	< 0.1	2	-	120	< 25	56	< 25	56	310	150	< 0.2	< 0.5	< 1
BH106	0.9m - 1m	13/03/26	FILL / Sandy GRAVEL	-	Douglas (Current)	< 4	< 0.4	6	16	130	1.2	< 0.1	2	-	120	69	150	69	150	< 100	< 100	< 0.2	< 0.5	< 1
BH106	1.4m - 1.6m	13/03/26	CLAY	-	Douglas (Current)	-	-	-	-	-	-	-	-	-	-	640	190	640	190	130	< 100	0.7	< 0.5	< 1
Neo BH1	0.2m - 0.3m	2025	FILL / SAND	BH1	Neo (2025)	2	< 0.3	4.6	4.1	12	-	< 0.05	0.9	-	6	37	< 25	37	< 25	260	< 120	< 0.1	< 0.1	< 0.1
Neo BH2	0.2m - 0.3m	2025	FILL / CLAY	BH2	Neo (2025)	3	< 0.3	23	1.9	24	-	< 0.05	1.2	-	22	< 25	< 25	< 25	< 25	160	< 120	0.1	< 0.1	< 0.1
Neo BH3	0.2m - 0.3m	2025	FILL / SAND	BH3	Neo (2025)	3	< 0.3	31	7.8	14	-	< 0.05	5.2	-	18	< 25	< 25	< 25	< 25	< 90	< 120	< 0.1	< 0.1	< 0.1
TTC MW1	0.17m - 0.27m	28/05/25	FILL / Silty CLAY	MW1	TTC (2025b)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TTC MW1	0.4m - 0.5m	28/05/25	FILL / SAND	MW1	TTC (2025b)	< 5	< 1	7	7	60	-	< 0.1	< 2	-	71	< 10	< 50	< 10	< 50	< 100	< 100	< 0.2	< 0.5	< 0.5
TTC MW1	1.9m - 2.1m	28/05/25	FILL / Clayey SAND	MW1	TTC (2025b)	< 5	< 1	5	5	27	-	< 0.1	< 2	-	66	11	< 50	11	< 50	< 100	< 100	< 0.2	< 0.5	< 0.5
TTC MW1	3.9m - 4m	28/05/25	SILTSTONE	MW1	TTC (2025b)	< 5	< 1	7	< 5	27	-	< 0.1	< 2	-	76	21	< 50	21	< 50	< 100	< 100	< 0.2	< 0.5	< 0.5
TTC MW1	5.4m - 5.5m	28/05/25	SANDSTONE	MW1	TTC (2025b)	< 5	< 1	3	< 5	10	-	< 0.1	< 2	-	< 5	< 10	< 50	< 10	< 50	< 100	< 100	< 0.2	< 0.5	< 0.5
TTC MW2	0.14m - 0.24m	28/05/25	FILL / Silty Sandy CLAY	MW2	TTC (2025b)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TTC MW2	0.4m - 0.5m	28/05/25	FILL / Silty Clayey SAND	MW2	TTC (2025b)	< 5	< 1	10	5	113	-	< 0.1	< 2	-	108	< 10	< 50	< 10	< 50	< 100	< 100	< 0.2	< 0.5	< 0.5
TTC MW2	1.4m - 1.5m	28/05/25	SAND	MW2	TTC (2025b)	< 5	< 1	15	< 5	12	-	< 0.1	< 2	-	< 5	< 10	< 50	< 10	< 50	< 100	< 100	< 0.2	< 0.5	< 0.5
TTC MW2	1.9m - 2m	28/05/25	SAND	MW2	TTC (2025b)	< 5	< 1	8	< 5	10	-	< 0.1	< 2	-	< 5	< 10	< 50	< 10	< 50	< 100	< 100	< 0.2	< 0.5	< 0.5
TTC MW3	0.17m - 0.27m	28/05/25	FILL / Clayey SAND	MW3	TTC (2025b)	< 5	< 1	10	16	72	-	< 0.1	4	-	74	< 10	< 50	< 10	< 50	< 100	< 100	< 0.2	< 0.5	< 0.5
TTC MW3	0.9m - 1m	28/05/25	FILL / Clayey SAND	MW3	TTC (2025b)	5	< 1	13	10	87	-	< 0.1	3	-	119	< 10	< 50	< 10	< 50	< 100	< 100	< 0.2	< 0.5	< 0.5
TTC MW3	1.4m - 1.5m	28/05/25	SHALE (possibly Silty Clay)	MW3	TTC (2025b)	< 5	< 1	9	< 5	21	-	< 0.1	< 2	-	< 5	< 10	< 50	< 10	< 50	< 100	< 100	< 0.2	< 0.5	< 0.5
TTC MW4	0.17m - 0.27m	28/05/25	FILL / Silty Sandy CLAY	MW4	TTC (2025b)	< 5	< 1	5	< 5	22	-	< 0.1	< 2	-	41	< 10	< 50	< 10	< 50	< 100	< 100	< 0.2	< 0.5	< 0.5
TTC MW4	0.9m - 1m	28/05/25	FILL / SAND	MW4	TTC (2025b)	< 5	< 1	5	< 5	< 5	-	< 0.1	< 2	-	< 5	< 10	< 50	< 10	< 50	< 100	< 100	< 0.2	< 0.5	< 0.5
TTC MW4	1.4m - 1.5m	28/05/25	FILL / Sandy CLAY	MW4	TTC (2025b)	< 5	< 1	7	< 5	15	-	< 0.1	< 2	-	11	< 10	< 50	< 10	< 50	< 100	< 100	< 0.2	< 0.5	< 0.5
TTC BH5	0.2m - 0.6m	28/05/25	FILL / Silty Sandy GRAVEL CLAY	BH5	TTC (2025b)	< 5	< 1	11	9	33	-	< 0.1	3	-	51	< 10	< 50	< 10	< 50	< 100	< 100	< 0.2	< 0.5	< 0.5
TTC BH5	0.7m - 1m	28/05/25	FILL / SAND	BH5	TTC (2025b)	< 5	< 1	8	< 5	27	-	< 0.1	< 2	-	36	< 10	230	< 10	230	< 100	< 100	< 0.2	< 0.5	< 0.5
TTC BH6	0.2m - 0.4m	28/05/25	FILL / Silty Sandy CLAY	BH6	TTC (2025b)	< 5	< 1	4	< 5	5	-	< 0.1	< 2	-	< 5	< 10	< 50	< 10	< 50	< 100	< 100	< 0.2	< 0.5	< 0.5
TTC BH6	0.5m - 0.8m	28/05/25	Silty CLAY	BH6	TTC (2025b)	< 5	< 1	14	< 5	10	-	< 0.1	< 2	-	< 5	< 10	< 50	< 10	< 50	< 100	< 100	< 0.2	< 0.5	< 0.5
TTC BH7	0.17m - 0.5m	28/05/25	FILL / Silty Sandy CLAY	BH7	TTC (2025b)	< 5	< 1	18	24	129	-	< 0.1	8	-	125	< 10	< 50	< 10	< 50	< 100	< 100	< 0.2	< 0.5	< 0.5
TTC BH7	2m - 2.3m	28/05/25	SILTSTONE (possibly Silty CLAY)	BH7	TTC (2025b)	< 5	< 1	5	< 5	10	-	< 0.1	< 2	-	< 5	< 10	< 50	< 10	< 50	< 100	< 100	< 0.2	< 0.5	< 0.5
TTC Midas MW01	0.12m	19/07/17	FILL / Gravelly SAND	MW03	ERM (2019)	< 5	< 1	< 2	< 5	< 5	-	< 0.1	2	-	10	< 10	< 50	< 10	< 50	< 100	< 100	< 0.2	< 0.5	< 0.5
TTC Midas MW01	1m	19/07/17	CLAY	MW03	ERM (2019)	< 5	< 1	11	< 5	11	-	< 0.1	< 2	-	< 5	< 10	< 50	< 10	< 50	< 100	< 100	< 0.2	< 0.5	< 0.5
TTC Midas MW02	0.2m	19/07/17	FILL / Gravelly SAND	MW02	ERM (2019)	< 5	< 1	10	31	329	-	< 0.1	7	-	430	46	70	42	70	< 100	< 100	< 0.2	< 0.5	< 0.5

Table C1: Summary of laboratory results - soil contaminated land

Sample ID	Depth	Sampled date	Soil description	Original sample ID in original report	Investigation Report	Metals										TRH (NEPM 2013)						BTEXN (all)		
						Arsenic	Cadmium	Chromium (Total)	Copper	Lead	Lead TCLP	Mercury	Nickel	Nickel TCLP	Zinc	TRH C6-C10	TRH >C10-C16	TRH F1 (C6-C10 minus BTEX)	TRH F2 (>C10-C16 minus naphthalene)	TRH F3 (>C16-C34)	TRH F4 (>C34-C40)	Benzene	Toluene	Ethylbenzene
						Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/L	mg/kg	mg/kg	mg/L	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
PQL						1	0.3	1	1	1	0.03	0.05	1	0.02	1	25	25	25	25	90	100	0.1	0.1	0.1
HIL-B						500	150	500	30,000	1,200	-	120	1,200	-	60,000	-	-	-	-	-	-	-	-	-
HIL-B (HEPA, 2025)						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HSL-B						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HSL-A & B Clay <1m (Applied to residential ground floor footprint)						-	-	-	-	-	-	-	-	-	-	-	-	50	280	-	-	0.7	480	NL
HSL-D Clay <1m (applied to commercial ground floor footprint)						-	-	-	-	-	-	-	-	-	-	-	-	310	NL	-	-	4	NL	NL
EIL, Urban residential & public open space						100	-	-	160	1,100	-	-	80	-	430	-	-	-	-	-	-	-	-	-
ESL-A-B-C Fine						-	-	-	-	-	-	-	-	-	-	-	120	180	-	1,300	5,600	65	105	125
EGV Direct, all land uses						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EGV Indirect, all land uses						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ML-A-B-C Fine						-	-	-	-	-	-	-	-	-	-	800	1,000	-	-	3,500	10,000	-	-	-
TTC Midas MW02	0.5m	19/07/17	CLAY	MW02	ERM (2019)	< 5	< 1	7	< 5	30	-	< 0.1	< 2	-	< 5	4,690	390	3,440	360	<100	< 100	12	160	149
TTC Midas MW02 (Field duplicate)	0.5m	19/07/17	CLAY	MW02 (Field Dup)	ERM (2019)	11	< 0.4	13	< 5	38	-	< 0.1	< 5	-	< 5	3,100	190	2,000	130	< 100	< 100	6.4	120	120
TTC Midas MW03	0.2m	19/07/17	FILL / Gravelly SAND	MW01	ERM (2019)	7	< 1	28	10	29	-	< 0.1	< 2	-	27	< 10	< 50	< 10	< 50	< 100	< 100	< 0.2	< 0.5	< 0.5
TTC Midas MW03 (Field duplicate)	0.2m	19/07/17	FILL / Gravelly SAND	MW01 (Field Dup)	ERM (2019)	11	< 1	42	< 5	30	-	< 0.1	6	-	< 5	< 10	< 50	< 10	< 50	< 100	< 100	< 0.2	< 0.5	< 0.5
TTC Midas MW03	3m	19/07/17	CLAY	MW01	ERM (2019)	< 5	< 1	< 2	< 5	18	-	< 0.1	< 2	-	< 5	28	< 50	28	< 50	< 100	< 100	< 0.2	< 0.5	< 0.5

Criteria adopted from the following guidelines:

NEPC, National Environment Protection (Assessment of Site Contamination) Measure 1999 (as amended 2013), Table 1B(1), Table 1B(2), Table 1B(3), Table 1B(4), Table 1B(5)

NEPC, National Environment Protection (Assessment of Site Contamination) Measure 1999 (as amended 2013)

Notes:

This table does not represent the full analytical results, please refer to the laboratory certificate(s) for full details

Results displayed in grey text recorded below the laboratory practical quantitation limit (PQL)

Cream shading indicates results with PQL above one or more assessment criteria

EIL - ecological investigation level

EGV - ecological guideline level

ESL - ecological screening level

HIL - health investigation level

HSL - health screening level

ML - management limit

PQL - laboratory practical quantitation limit

Field duplicate is below primary sample

Underlined test locations are within or adjacent to the proposed 'deep soil zone'

Table C1: Summary of laboratory results - soil contaminated land

Sample ID	Depth	Sampled date	Soil description	Original sample ID in original report	Investigation Report	PAH																		
						Xylene (Total)	Naphthalene (VOC)	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(a)pyrene TCLP	Benzo(b+j+k)fluoranthene	Benzo(g,h,i)perylene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene	Benzo(a)pyrene TEQ calc (Zero)
Units						mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/L	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	
PQL						0.2	0.1	0.1	0.1	0.1	0.1	0.05	0.0001	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.5	
HIL-B						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	
HIL-B (HEPA, 2025)						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
HSL-B						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
HSL-A & B Clay <1m (Applied to residential ground floor footprint)						110	5	-	-	-	-	-	-	-	-	-	-	-	5	-	-	-		
HSL-D Clay <1m (applied to commercial ground floor footprint)						NL	NL	-	-	-	-	-	-	-	-	-	-	-	NL	-	-	-		
EIL, Urban residential & public open space						-	-	-	-	-	-	-	-	-	-	-	-	-	170	-	-	-		
ESL-A-B-C Fine						45	-	-	-	-	-	0.7	-	-	-	-	-	-	-	-	-	-	-	
EGV Direct, all land uses						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
EGV Indirect, all land uses						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
ML-A-B-C Fine						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Test Locations within Residential / Garden Groundfloor Footprint (also includes locations in close proxim																								
BH101	0.15m - 0.2m	16/03/26	FILL / Sandy SILT	-	Douglas (Current)	<1	<1	< 0.1	0.6	0.2	0.4	0.5	-	2	2	0.5	0.3	0.3	< 0.1	1.4	0.2	< 0.1	0.4	1.1
BH101	0.3m - 0.5m	16/03/26	Silty CLAY	-	Douglas (Current)	<1	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
BH102	0.5m - 0.65m	16/03/26	FILL / Sandy GRAVEL	-	Douglas (Current)	<1	<1	< 0.1	< 0.1	< 0.1	< 0.1	0.07	-	< 0.2	0.1	< 0.1	< 0.1	0.1	< 0.1	< 0.1	< 0.1	0.1	< 0.5	
BH102	0.7m - 0.9m	16/03/26	Silty CLAY	-	Douglas (Current)	<1	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
BH103	0.11m - 0.3m	16/03/26	FILL / Gravelly CLAY	-	Douglas (Current)	<1	<1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.05	-	< 0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.5	
BH103	0.4m - 0.6m	16/03/26	FILL / Silty CLAY	-	Douglas (Current)	<1	<1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.05	-	< 0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.5	
BH103	1.2m - 1.4m	16/03/26	Silty CLAY	-	Douglas (Current)	<1	<1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.05	-	< 0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.5	
BH104	0.15m - 0.3m	16/03/26	FILL / Silty CLAY	-	Douglas (Current)	<1	<1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.05	-	< 0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.5	
BH104	1.4m - 1.6m	16/03/26	FILL / Silty CLAY	-	Douglas (Current)	<1	<1	< 0.1	< 0.1	< 0.1	< 0.1	0.1	-	0.2	< 0.1	0.1	< 0.1	0.2	< 0.1	< 0.1	< 0.1	0.2	< 0.5	
BD1/2032026	1.4m - 1.6m	16/03/26	FILL / Silty CLAY	-	Douglas (Current)	<1	<1	< 0.1	0.2	0.2	0.6	1.6	-	1	1.3	0.6	0.2	0.7	< 0.1	0.8	0.2	0.2	1	2.1
BH104	2m - 2.2m	16/03/26	Clayey SILT	-	Douglas (Current)	<1	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
BH107	0.05m - 0.15m	13/03/26	FILL / Gravelly SAND	-	Douglas (Current)	<1	<1	< 0.1	< 0.1	< 0.1	< 0.1	0.07	-	< 0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.1	< 0.5	
BH107	0.4m - 0.5m	13/03/26	FILL / CLAY	-	Douglas (Current)	<1	<1	< 0.1	< 0.1	< 0.1	0.1	0.2	-	0.2	0.1	0.1	< 0.1	0.1	< 0.1	< 0.1	< 0.1	0.2	< 0.5	
TTC BH8	0.13m - 0.23m	27/05/25	FILL / Silty Sandy GRAVELLY CLAY	BH8	TTC (2025b)	< 0.5	<1	-	-	-	-	< 0.5	-	-	-	-	-	-	-	-	-	-	-	
TTC BH8	0.8m - 0.9m	27/05/25	FILL / Silty CLAY	BH8	TTC (2025b)	< 0.5	<1	-	-	-	-	< 0.5	-	-	-	-	-	-	-	-	-	-	-	
TTC BH9	0.15m - 0.3m	27/05/25	FILL / Silty Gravelly CLAY	BH9	TTC (2025b)	< 0.5	<1	-	-	-	-	< 0.5	-	-	-	-	-	-	-	-	-	-	-	
TTC BH10	0.13m - 0.23m	27/05/25	FILL / Silty Gravelly CLAY	BH10	TTC (2025b)	< 0.5	<1	-	-	-	-	< 0.5	-	-	-	-	-	-	-	-	-	-	-	
TTC BH10	0.6m - 0.8m	27/05/25	FILL / Silty CLAY	BH10	TTC (2025b)	< 0.5	<1	-	-	-	-	< 0.5	-	-	-	-	-	-	-	-	-	-	-	
TTC BH11	0.08m - 0.4m	27/05/25	FILL / Silty Gravelly CLAY	BH11	TTC (2025b)	< 0.5	<1	-	-	-	-	< 0.5	-	-	-	-	-	-	-	-	-	-	-	
TTC BH12	0.13m - 0.23m	27/05/25	FILL / Silty Sandy GRAVELLY CLAY	BH12	TTC (2025b)	< 0.5	<1	-	-	-	-	< 0.5	-	-	-	-	-	-	-	-	-	-	-	
TTC BH12	0.4m - 0.5m	27/05/25	FILL / Silty Sandy GRAVELLY CLAY	BH12	TTC (2025b)	< 0.5	<1	-	-	-	-	< 0.5	-	-	-	-	-	-	-	-	-	-	-	
TTC BH13	0.13m - 0.23m	27/05/25	FILL / Silty Sandy GRAVELLY CLAY	BH13	TTC (2025b)	< 0.5	<1	-	-	-	-	0.7	-	-	-	-	-	-	-	-	-	-	-	
TTC BH14	0.13m - 0.2m	27/05/25	FILL / Silty CLAY	BH14	TTC (2025b)	< 0.5	<1	-	-	-	-	4.3	-	-	-	-	-	-	-	-	-	-	-	
TTC BH14	0.6m - 0.8m	27/05/25	Silty CLAY	BH14	TTC (2025b)	< 0.5	<1	-	-	-	-	< 0.5	-	-	-	-	-	-	-	-	-	-	-	
TTC BH15	0.4m - 0.5m	27/05/25	Sandy CLAY	BH15	TTC (2025b)	< 0.5	<1	-	-	-	-	< 0.5	-	-	-	-	-	-	-	-	-	-	-	
TTC BH16	0.23m - 0.3m	27/05/25	Silty CLAY	BH16	TTC (2025b)	< 0.5	<1	-	-	-	-	6.7	-	-	-	-	-	-	-	-	-	-	-	
TTC BH16	0.4m - 0.6m	27/05/25	Silty CLAY	BH16	TTC (2025b)	< 0.5	<1	-	-	-	-	0.6	-	-	-	-	-	-	-	-	-	-	-	
TTC BH17	0.13m - 0.23m	27/05/25	FILL / Silty CLAY	BH17	TTC (2025b)	< 0.5	<1	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-	
TTC BH17	0.4m - 0.5m	27/05/25	Silty CLAY	BH17	TTC (2025b)	< 0.5	<1	-	-	-	-	< 0.5	-	-	-	-	-	-	-	-	-	-	-	

Table C1: Summary of laboratory results - soil contaminated land

Sample ID	Depth	Sampled date	Soil description	Original sample ID in original report	Investigation Report	PAH																			
						Xylene (Total)	Naphthalene (VOC)	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(a)pyrene TCPLP	Benzo(b+j+k)fluoranthene	Benzo(g,h,i)perylene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene	Benzo(a)pyrene TEQ calc (Zero)	
Units						mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/L	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg		
PQL						0.2	0.1	0.1	0.1	0.1	0.1	0.05	0.0001	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.5		
HIL-B						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4		
HIL-B (HEPA, 2025)						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
HSL-B						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
HSL-A & B Clay <1m (Applied to residential ground floor footprint)						110	5	-	-	-	-	-	-	-	-	-	-	-	5	-	-	-			
HSL-D Clay <1m (applied to commercial ground floor footprint)						NL	NL	-	-	-	-	-	-	-	-	-	-	-	NL	-	-	-			
EIL, Urban residential & public open space						-	-	-	-	-	-	-	-	-	-	-	-	-	170	-	-	-			
ESL-A-B-C Fine						45	-	-	-	-	-	0.7	-	-	-	-	-	-	-	-	-	-			
EGV Direct, all land uses						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
EGV Indirect, all land uses						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
ML-A-B-C Fine						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Test Locations within Commercial / Retail Groundfloor Footprint																									
BH105	0.4m - 0.5m	13/03/26	FILL / Sandy GRAVEL	-	Douglas (Current)	<1	<1	< 0.1	0.1	0.2	1.1	0.97	< 0.0001	1	0.6	0.8	0.1	2.2	< 0.1	0.5	< 0.1	0.8	2.1	1.4	
BH105	0.9m - 1m	13/03/26	FILL / Sandy CLAY	-	Douglas (Current)	<1	<1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.05	-	< 0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.5		
BH106	0.1m - 0.2m	13/03/26	FILL / Sandy GRAVEL	-	Douglas (Current)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
BH106	0.4m - 0.5m	13/03/26	FILL / Sandy GRAVEL	-	Douglas (Current)	<1	<1	< 0.1	0.6	0.9	2.1	3.1	< 0.0001	4	2.4	1.9	0.4	3.1	0.3	1.7	1.2	1.6	3.9	4.3	
BH106	0.9m - 1m	13/03/26	FILL / Sandy GRAVEL	-	Douglas (Current)	<1	<1	< 0.1	0.1	0.4	0.6	0.5	-	0.7	0.3	0.6	< 0.1	1.5	0.4	0.2	0.8	1.6	1.5	0.6	
BH106	1.4m - 1.6m	13/03/26	CLAY	-	Douglas (Current)	<1	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Neo BH1	0.2m - 0.3m	2025	FILL / SAND	BH1	Neo (2025)	< 0.2	< 0.1	-	-	-	-	< 0.1	-	-	-	-	-	-	-	-	-	-	-		
Neo BH2	0.2m - 0.3m	2025	FILL / CLAY	BH2	Neo (2025)	0.4	< 0.1	-	-	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-		
Neo BH3	0.2m - 0.3m	2025	FILL / SAND	BH3	Neo (2025)	< 0.2	< 0.1	-	-	-	-	< 0.1	-	-	-	-	-	-	-	-	-	-	-		
TTC MW1	0.17m - 0.27m	28/05/25	FILL / Silty CLAY	MW1	TTC (2025b)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
TTC MW1	0.4m - 0.5m	28/05/25	FILL / SAND	MW1	TTC (2025b)	< 0.5	< 1	-	-	-	-	< 0.5	-	-	-	-	-	-	-	-	-	-	-		
TTC MW1	1.9m - 2.1m	28/05/25	FILL / Clayey SAND	MW1	TTC (2025b)	< 0.5	< 1	-	-	-	-	< 0.5	-	-	-	-	-	-	-	-	-	-	-		
TTC MW1	3.9m - 4m	28/05/25	SILTSTONE	MW1	TTC (2025b)	< 0.5	< 1	-	-	-	-	< 0.5	-	-	-	-	-	-	-	-	-	-	-		
TTC MW1	5.4m - 5.5m	28/05/25	SANDSTONE	MW1	TTC (2025b)	< 0.5	< 1	-	-	-	-	< 0.5	-	-	-	-	-	-	-	-	-	-	-		
TTC MW2	0.14m - 0.24m	28/05/25	FILL / Silty Sandy CLAY	MW2	TTC (2025b)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
TTC MW2	0.4m - 0.5m	28/05/25	FILL / Silty Clayey SAND	MW2	TTC (2025b)	< 0.5	< 1	-	-	-	-	< 0.5	-	-	-	-	-	-	-	-	-	-	-		
TTC MW2	1.4m - 1.5m	28/05/25	SAND	MW2	TTC (2025b)	< 0.5	< 1	-	-	-	-	< 0.5	-	-	-	-	-	-	-	-	-	-	-		
TTC MW2	1.9m - 2m	28/05/25	SAND	MW2	TTC (2025b)	< 0.5	< 1	-	-	-	-	< 0.5	-	-	-	-	-	-	-	-	-	-	-		
TTC MW3	0.17m - 0.27m	28/05/25	FILL / Clayey SAND	MW3	TTC (2025b)	< 0.5	< 1	-	-	-	-	< 0.5	-	-	-	-	-	-	-	-	-	-	-		
TTC MW3	0.9m - 1m	28/05/25	FILL / Clayey SAND	MW3	TTC (2025b)	< 0.5	< 1	-	-	-	-	< 0.5	-	-	-	-	-	-	-	-	-	-	-		
TTC MW3	1.4m - 1.5m	28/05/25	SHALE (possibly Silty Clay)	MW3	TTC (2025b)	< 0.5	< 1	-	-	-	-	< 0.5	-	-	-	-	-	-	-	-	-	-	-		
TTC MW4	0.17m - 0.27m	28/05/25	FILL / Silty Sandy CLAY	MW4	TTC (2025b)	< 0.5	< 1	-	-	-	-	< 0.5	-	-	-	-	-	-	-	-	-	-	-		
TTC MW4	0.9m - 1m	28/05/25	FILL / SAND	MW4	TTC (2025b)	< 0.5	< 1	-	-	-	-	< 0.5	-	-	-	-	-	-	-	-	-	-	-		
TTC MW4	1.4m - 1.5m	28/05/25	FILL / Sandy CLAY	MW4	TTC (2025b)	< 0.5	< 1	-	-	-	-	< 0.5	-	-	-	-	-	-	-	-	-	-	-		
TTC BH5	0.2m - 0.6m	28/05/25	FILL / Silty Sandy GRAVEL CLAY	BH5	TTC (2025b)	< 0.5	< 1	-	-	-	-	< 0.5	-	-	-	-	-	-	-	-	-	-	-		
TTC BH5	0.7m - 1m	28/05/25	FILL / SAND	BH5	TTC (2025b)	< 0.5	< 1	-	-	-	-	< 0.5	-	-	-	-	-	-	-	-	-	-	-		
TTC BH6	0.2m - 0.4m	28/05/25	FILL / Silty Sandy CLAY	BH6	TTC (2025b)	< 0.5	< 1	-	-	-	-	< 0.5	-	-	-	-	-	-	-	-	-	-	-		
TTC BH6	0.5m - 0.8m	28/05/25	Silty CLAY	BH6	TTC (2025b)	< 0.5	< 1	-	-	-	-	< 0.5	-	-	-	-	-	-	-	-	-	-	-		
TTC BH7	0.17m - 0.5m	28/05/25	FILL / Silty Sandy CLAY	BH7	TTC (2025b)	< 0.5	< 1	-	-	-	-	< 0.5	-	-	-	-	-	-	-	-	-	-	-		
TTC BH7	2m - 2.3m	28/05/25	SILTSTONE (possibly Silty CLAY)	BH7	TTC (2025b)	< 0.5	< 1	-	-	-	-	< 0.5	-	-	-	-	-	-	-	-	-	-	-		
TTC Midas MW01	0.12m	19/07/17	FILL / Gravelly SAND	MW03	ERM (2019)	< 0.5	< 0.5	-	-	-	-	< 0.5	-	-	-	-	-	-	-	-	-	-	-		
TTC Midas MW01	1m	19/07/17	CLAY	MW03	ERM (2019)	< 0.5	< 0.5	-	-	-	-	< 0.5	-	-	-	-	-	-	-	-	-	-	-		
TTC Midas MW02	0.2m	19/07/17	FILL / Gravelly SAND	MW02	ERM (2019)	4.2	3	-	-	-	-	< 0.5	-	-	-	-	-	-	-	-	-	-	-		

Table C1: Summary of laboratory results - soil contaminated land

Sample ID	Depth	Sampled date	Soil description	Original sample ID in original report	Investigation Report			PAH															
						Xylene (Total)	Naphthalene (VOC)	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(a)pyrene TCCLP	Benzo(b+j+k)fluoranthene	Benzo(g,h,i)perylene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene
Units						mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/L	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
PQL						0.2	0.1	0.1	0.1	0.1	0.1	0.05	0.0001	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.5
HIL-B						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4
HIL-B (HEPA, 2025)						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HSL-B						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HSL-A & B Clay <1m (Applied to residential ground floor footprint)						110	5	-	-	-	-	-	-	-	-	-	-	-	5	-	-	-	
HSL-D Clay <1m (applied to commercial ground floor footprint)						NL	NL	-	-	-	-	-	-	-	-	-	-	-	NL	-	-	-	
EIL, Urban residential & public open space						-	-	-	-	-	-	-	-	-	-	-	-	-	170	-	-	-	
ESL-A-B-C Fine						45	-	-	-	-	-	0.7	-	-	-	-	-	-	-	-	-	-	
EGV Direct, all land uses						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
EGV Indirect, all land uses						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
ML-A-B-C Fine						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TTC Midas MW02	0.5m	19/07/17	CLAY	MW02	ERM (2019)	925	28	-	-	-	-	< 0.5	-	-	-	-	-	-	-	-	-	-	
TTC Midas MW02 (Field duplicate)	0.5m	19/07/17	CLAY	MW02 (Field Dup)	ERM (2019)	820	57	-	-	-	-	< 0.5	-	-	-	-	-	-	-	-	-	-	
TTC Midas MW03	0.2m	19/07/17	FILL / Gravelly SAND	MW01	ERM (2019)	< 0.5	< 0.5	-	-	-	-	< 0.5	-	-	-	-	-	-	-	-	-	-	
TTC Midas MW03 (Field duplicate)	0.2m	19/07/17	FILL / Gravelly SAND	MW01 (Field Dup)	ERM (2019)	< 0.5	< 0.5	-	-	-	-	< 0.5	-	-	-	-	-	-	-	-	-	-	
TTC Midas MW03	3m	19/07/17	CLAY	MW01	ERM (2019)	< 0.5	< 0.5	-	-	-	-	< 0.5	-	-	-	-	-	-	-	-	-	-	

Criteria adopted from the following guidelines:

NEPC, National Environment Protection (Assessment of Site Contamination) Measure 1999 (as amended 201

NEPC, National Environment Protection (Assessment of Site Contamination) Measure 1999 (as amended 201

Notes:

This table does not represent the full analytical results, please refer to the laboratory certificate(s) for full deta

Results displayed in grey text recorded below the laboratory practical quantitation limit (PQL)

Cream shading indicates results with PQL above one or more assessment criteria

EIL - ecological investigation level

EGV - ecological guideline level

ESL - ecological screening level

HIL - health investigation level

HSL - health screening level

ML - management limit

PQL - laboratory practical quantitation limit

Field duplicate is below primary sample

Underlined test locations are within or adjacent to the proposed 'deep soil zone'

Table C1: Summary of laboratory results - soil contaminated land

Sample ID	Depth	Sampled date	Soil description	Original sample ID in original report	Investigation Report					Phenols	PCB	OCP														OPP	
						Benzo(a)pyrene TEQ calc (0.5 PQL)	Benzo(a)pyrene TEQ (PQL)	Total PAH (sum of analysed)	Total PAH (sum of analysed) TCLP	Phenolics (Total)(as phenol)	PCB (Total)	Aldrin + Dieldrin	Chlordane (cis)	DDT	DDT+DDE+DDD	Endosulfan	Endrin	Heptachlor	Hexachlorobenzene (HCB)	Methoxychlor	Mirex	All Other OCP analysed	Chlorpyrifos	All other OPP analysed			
Units						mg/kg	mg/kg	mg/kg	mg/L	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg			
PQL						0.5	0.3	0.05		0.5	0.1	0.1	0.05	0.1	0.1	0.05	0.1	0.1	0.1	0.1	0.1	0.05	0.1				
HIL-B						4	4	400	-	-	1	10	90	-	600	400	20	10	15	500	20	-	340	-			
HIL-B (HEPA, 2025)						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
HSL-B						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
HSL-A & B Clay <1m (Applied to residential ground floor footprint)						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
HSL-D Clay <1m (applied to commercial ground floor footprint)						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
EIL, Urban residential & public open space						-	-	-	-	-	-	-	-	180	-	-	-	-	-	-	-	-	-				
ESL-A-B-C Fine						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
EGV Direct, all land uses						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
EGV Indirect, all land uses						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
ML-A-B-C Fine						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Test Locations within Residential / Garden Groundfloor Footprint (also includes locations in close proxim																											
BH101	0.15m - 0.2m	16/03/26	FILL / Sandy SILT	-	Douglas (Current)	1.1	1.1	8.4	-	< 5	1.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1				
BH101	0.3m - 0.5m	16/03/26	Silty CLAY	-	Douglas (Current)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
BH102	0.5m - 0.65m	16/03/26	FILL / Sandy GRAVEL	-	Douglas (Current)	< 0.5	< 0.5	0.51	-	< 5	< 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				
BH102	0.7m - 0.9m	16/03/26	Silty CLAY	-	Douglas (Current)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
BH103	0.11m - 0.3m	16/03/26	FILL / Gravelly CLAY	-	Douglas (Current)	< 0.5	< 0.5	< 0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
BH103	0.4m - 0.6m	16/03/26	FILL / Silty CLAY	-	Douglas (Current)	< 0.5	< 0.5	< 0.05	-	< 5	< 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				
BH103	1.2m - 1.4m	16/03/26	Silty CLAY	-	Douglas (Current)	< 0.5	< 0.5	< 0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
BH104	0.15m - 0.3m	16/03/26	FILL / Silty CLAY	-	Douglas (Current)	< 0.5	< 0.5	< 0.05	-	< 5	< 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				
BH104	1.4m - 1.6m	16/03/26	FILL / Silty CLAY	-	Douglas (Current)	< 0.5	< 0.5	0.96	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
BD1/12032026	1.4m - 1.6m	16/03/26	FILL / Silty CLAY	-	Douglas (Current)	2.1	2.1	9.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
BH104	2m - 2.2m	16/03/26	Clayey SILT	-	Douglas (Current)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
BH107	0.05m - 0.15m	13/03/26	FILL / Gravelly SAND	-	Douglas (Current)	< 0.5	< 0.5	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
BH107	0.4m - 0.5m	13/03/26	FILL / CLAY	-	Douglas (Current)	< 0.5	< 0.5	1.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
TTC BH8	0.13m - 0.23m	27/05/25	FILL / Silty Sandy GRAVELLY CLAY	BH8	TTC (2025b)	-	1.2	< 0.5	-	< 0.5	-	< 0.05	< 0.05	-	< 0.05	< 0.05	< 0.05	< 0.05	-	< 0.2	-	-	< 0.05	-			
TTC BH8	0.8m - 0.9m	27/05/25	FILL / Silty CLAY	BH8	TTC (2025b)	-	1.2	< 0.5	-	< 0.5	-	0.89	< 0.05	-	< 0.05	< 0.05	< 0.05	< 0.05	-	< 0.2	-	-	< 0.05	-			
TTC BH9	0.15m - 0.3m	27/05/25	FILL / Silty Gravelly CLAY	BH9	TTC (2025b)	-	1.2	< 0.5	-	< 0.5	-	< 0.05	< 0.05	-	< 0.05	< 0.05	< 0.05	< 0.05	-	< 0.2	-	-	< 0.05	-			
TTC BH10	0.13m - 0.23m	27/05/25	FILL / Silty Gravelly CLAY	BH10	TTC (2025b)	-	1.2	< 0.5	-	< 0.5	-	0.11	< 0.05	-	< 0.05	< 0.05	< 0.05	< 0.05	-	< 0.2	-	-	< 0.05	-			
TTC BH10	0.6m - 0.8m	27/05/25	FILL / Silty CLAY	BH10	TTC (2025b)	-	1.2	< 0.5	-	< 0.5	-	0.39	< 0.05	-	< 0.05	< 0.05	< 0.05	< 0.05	-	< 0.2	-	-	< 0.05	-			
TTC BH11	0.08m - 0.4m	27/05/25	FILL / Silty Gravelly CLAY	BH11	TTC (2025b)	-	1.2	2	-	< 0.5	-	0.08	< 0.05	-	< 0.05	< 0.05	< 0.05	< 0.05	-	< 0.2	-	-	< 0.05	-			
TTC BH12	0.13m - 0.23m	27/05/25	FILL / Silty Sandy GRAVELLY CLAY	BH12	TTC (2025b)	-	1.2	< 0.5	-	< 0.5	-	< 0.05	< 0.05	-	< 0.05	< 0.05	< 0.05	< 0.05	-	< 0.2	-	-	< 0.05	-			
TTC BH12	0.4m - 0.5m	27/05/25	FILL / Silty Sandy GRAVELLY CLAY	BH12	TTC (2025b)	-	1.2	< 0.5	-	< 0.5	-	< 0.05	< 0.05	-	< 0.05	< 0.05	< 0.05	< 0.05	-	< 0.2	-	-	< 0.05	-			
TTC BH13	0.13m - 0.23m	27/05/25	FILL / Silty Sandy GRAVELLY CLAY	BH13	TTC (2025b)	-	1.4	7.3	-	< 0.5	-	< 0.05	< 0.05	-	< 0.05	< 0.05	< 0.05	< 0.05	-	< 0.2	-	-	< 0.05	-			
TTC BH14	0.13m - 0.2m	27/05/25	FILL / Silty CLAY	BH14	TTC (2025b)	-	6.3	38.9	-	< 0.5	-	< 0.05	< 0.05	-	< 0.05	< 0.05	< 0.05	< 0.05	-	< 0.2	-	-	< 0.05	-			
TTC BH14	0.6m - 0.8m	27/05/25	Silty CLAY	BH14	TTC (2025b)	-	1.2	< 0.5	-	< 0.5	-	< 0.05	< 0.05	-	< 0.05	< 0.05	< 0.05	< 0.05	-	< 0.2	-	-	< 0.05	-			
TTC BH15	0.4m - 0.5m	27/05/25	Sandy CLAY	BH15	TTC (2025b)	-	1.2	< 0.5	-	< 0.5	-	< 0.05	< 0.05	-	< 0.05	< 0.05	< 0.05	< 0.05	-	< 0.2	-	-	< 0.05	-			
TTC BH16	0.23m - 0.3m	27/05/25	Silty CLAY	BH16	TTC (2025b)	-	9.6	54.4	-	< 0.5	-	0.55	< 0.05	-	< 0.05	< 0.05	< 0.05	< 0.05	-	< 0.2	-	-	< 0.05	-			
TTC BH16	0.4m - 0.6m	27/05/25	Silty CLAY	BH16	TTC (2025b)	-	1.3	2.8	-	< 0.5	-	< 0.05	< 0.05	-	< 0.05	< 0.05	< 0.05	< 0.05	-	< 0.2	-	-	< 0.05	-			
TTC BH17	0.13m - 0.23m	27/05/25	FILL / Silty CLAY	BH17	TTC (2025b)	-	4.5	28.8	-	< 0.5	-	< 0.05	< 0.05	-	< 0.05	< 0.05	< 0.05	< 0.05	-	< 0.2	-	-	< 0.05	-			
TTC BH17	0.4m - 0.5m	27/05/25	Silty CLAY	BH17	TTC (2025b)	-	1.2	< 0.5	-	< 0.5	-	< 0.05	< 0.05	-	< 0.05	< 0.05	< 0.05	< 0.05	-	< 0.2	-	-	< 0.05	-			

Table C1: Summary of laboratory results - soil contaminated land

Sample ID	Depth	Sampled date	Soil description	Original sample ID in original report	Investigation Report					Phenols	PCB	OCP														OPP	
						Benzo(a)pyrene TEQ calc (0.5 PQL)	Benzo(a)pyrene TEQ (PQL)	Total PAH (sum of analysed)	Total PAH (sum of analysed) TCLP	Phenolics (Total)(as phenol)	PCB (Total)	Aldrin + Dieldrin	Chlordane (cis)	DDT	DDT+DDE+DDD	Endosulfan	Endrin	Heptachlor	Hexachlorobenzene (HCB)	Methoxychlor	Mirex	All Other OCP analysed	Chlorpyrifos	All other OPP analysed			
Units						mg/kg	mg/kg	mg/kg	mg/L	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg			
PQL						0.5	0.3	0.05		0.5	0.1	0.1	0.05	0.1	0.1	0.05	0.1	0.1	0.1	0.1	0.1	0.1	0.05	0.1			
HIL-B						4	4	400	-	-	1	10	90	-	600	400	20	10	15	500	20	-	340	-			
HIL-B (HEPA, 2025)						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
HSL-B						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
HSL-A & B Clay <1m (Applied to residential ground floor footprint)						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
HSL-D Clay <1m (applied to commercial ground floor footprint)						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
EIL, Urban residential & public open space						-	-	-	-	-	-	-	-	180	-	-	-	-	-	-	-	-	-	-			
ESL-A-B-C Fine						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
EGV Direct, all land uses						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
EGV Indirect, all land uses						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
ML-A-B-C Fine						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Test Locations within Commercial / Retail Groundfloor Footprint																											
BH105	0.4m - 0.5m	13/03/26	FILL / Sandy GRAVEL	-	Douglas (Current)	1.4	1.4	11	0.0005	< 5	< 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	< 0.1			
BH105	0.9m - 1m	13/03/26	FILL / Sandy CLAY	-	Douglas (Current)	< 0.5	< 0.5	< 0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
BH106	0.1m - 0.2m	13/03/26	FILL / Sandy GRAVEL	-	Douglas (Current)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
BH106	0.4m - 0.5m	13/03/26	FILL / Sandy GRAVEL	-	Douglas (Current)	4.3	4.3	27	0.0004	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
BH106	0.9m - 1m	13/03/26	FILL / Sandy GRAVEL	-	Douglas (Current)	0.7	0.7	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
BH106	1.4m - 1.6m	13/03/26	CLAY	-	Douglas (Current)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Neo BH1	0.2m - 0.3m	2025	FILL / SAND	BH1	Neo (2025)	-	< 0.3	< 0.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Neo BH2	0.2m - 0.3m	2025	FILL / CLAY	BH2	Neo (2025)	-	< 0.3	< 0.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Neo BH3	0.2m - 0.3m	2025	FILL / SAND	BH3	Neo (2025)	-	< 0.3	< 0.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
TTC MW1	0.17m - 0.27m	28/05/25	FILL / Silty CLAY	MW1	TTC (2025b)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
TTC MW1	0.4m - 0.5m	28/05/25	FILL / SAND	MW1	TTC (2025b)	-	1.2	< 0.5	-	< 0.5	-	< 0.05	< 0.05	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	< 0.2	-	-	< 0.05			
TTC MW1	1.9m - 2.1m	28/05/25	FILL / Clayey SAND	MW1	TTC (2025b)	-	1.2	2.3	-	< 0.5	-	< 0.05	< 0.05	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	< 0.2	-	-	< 0.05			
TTC MW1	3.9m - 4m	28/05/25	SILTSTONE	MW1	TTC (2025b)	-	1.2	9.9	-	< 0.5	-	< 0.05	< 0.05	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	< 0.2	-	-	< 0.05			
TTC MW1	5.4m - 5.5m	28/05/25	SANDSTONE	MW1	TTC (2025b)	-	1.2	< 0.5	-	< 0.5	-	< 0.05	< 0.05	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	< 0.2	-	-	< 0.05			
TTC MW2	0.14m - 0.24m	28/05/25	FILL / Silty Sandy CLAY	MW2	TTC (2025b)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
TTC MW2	0.4m - 0.5m	28/05/25	FILL / Silty Clayey SAND	MW2	TTC (2025b)	-	1.2	< 0.5	-	< 0.5	-	< 0.05	< 0.05	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	< 0.2	-	-	< 0.05			
TTC MW2	1.4m - 1.5m	28/05/25	SAND	MW2	TTC (2025b)	-	1.2	< 0.5	-	< 0.5	-	< 0.05	< 0.05	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	< 0.2	-	-	< 0.05			
TTC MW2	1.9m - 2m	28/05/25	SAND	MW2	TTC (2025b)	-	1.2	< 0.5	-	< 0.5	-	< 0.05	< 0.05	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	< 0.2	-	-	< 0.05			
TTC MW3	0.17m - 0.27m	28/05/25	FILL / Clayey SAND	MW3	TTC (2025b)	-	1.2	1.4	-	< 0.5	-	< 0.05	< 0.05	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	< 0.2	-	-	< 0.05			
TTC MW3	0.9m - 1m	28/05/25	FILL / Clayey SAND	MW3	TTC (2025b)	-	1.2	< 0.5	-	< 0.5	-	< 0.05	< 0.05	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	< 0.2	-	-	< 0.05			
TTC MW3	1.4m - 1.5m	28/05/25	SHALE (possibly Silty Clay)	MW3	TTC (2025b)	-	1.2	< 0.5	-	< 0.5	-	< 0.05	< 0.05	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	< 0.2	-	-	< 0.05			
TTC MW4	0.17m - 0.27m	28/05/25	FILL / Silty Sandy CLAY	MW4	TTC (2025b)	-	1.2	< 0.5	-	< 0.5	-	< 0.05	< 0.05	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	< 0.2	-	-	< 0.05			
TTC MW4	0.9m - 1m	28/05/25	FILL / SAND	MW4	TTC (2025b)	-	1.2	< 0.5	-	< 0.5	-	< 0.05	< 0.05	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	< 0.2	-	-	< 0.05			
TTC MW4	1.4m - 1.5m	28/05/25	FILL / Sandy CLAY	MW4	TTC (2025b)	-	1.2	< 0.5	-	< 0.5	-	< 0.05	< 0.05	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	< 0.2	-	-	< 0.05			
TTC BH5	0.2m - 0.6m	28/05/25	FILL / Silty Sandy GRAVEL CLAY	BH5	TTC (2025b)	-	1.2	< 0.5	-	< 0.5	-	< 0.05	< 0.05	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	< 0.2	-	-	< 0.05			
TTC BH5	0.7m - 1m	28/05/25	FILL / SAND	BH5	TTC (2025b)	-	1.2	< 0.5	-	< 0.5	-	< 0.05	< 0.05	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	< 0.2	-	-	< 0.05			
TTC BH6	0.2m - 0.4m	28/05/25	FILL / Silty Sandy CLAY	BH6	TTC (2025b)	-	1.2	< 0.5	-	< 0.5	-	< 0.05	< 0.05	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	< 0.2	-	-	< 0.05			
TTC BH6	0.5m - 0.8m	28/05/25	Silty CLAY	BH6	TTC (2025b)	-	1.2	< 0.5	-	< 0.5	-	< 0.05	< 0.05	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	< 0.2	-	-	< 0.05			
TTC BH7	0.17m - 0.5m	28/05/25	FILL / Silty Sandy CLAY	BH7	TTC (2025b)	-	1.2	< 0.5	-	< 0.5	-	< 0.05	< 0.05	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	< 0.2	-	-	< 0.05			
TTC BH7	2m - 2.3m	28/05/25	SILTSTONE (possibly Silty CLAY)	BH7	TTC (2025b)	-	1.2	< 0.5	-	< 0.5	-	< 0.05	< 0.05	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	< 0.2	-	-	< 0.05			
TTC Midas MW01	0.12m	19/07/17	FILL / Gravelly SAND	MW03	ERM (2019)	-	1.2	< 0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
TTC Midas MW01	1m	19/07/17	CLAY	MW03	ERM (2019)	-	1.2	< 0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
TTC Midas MW02	0.2m	19/07/17	FILL / Gravelly SAND	MW02	ERM (2019)	-	1.2	2.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			

Table C1: Summary of laboratory results - soil contaminated land

Sample ID	Depth	Sampled date	Soil description	Original sample ID in original report	Investigation Report					Phenols	PCB	OCP													OPP	
						Benzo(a)pyrene TEQ calc (0.5 PQL)	Benzo(a)pyrene TEQ (PQL)	Total PAH (sum of analysed)	Total PAH (sum of analysed) TCLP	Phenolics (Total)(as phenol)	PCB (Total)	Aldrin + Dieldrin	Chlordane (cis)	DDT	DDT+DDE+DDD	Endosulfan	Endrin	Heptachlor	Hexachlorobenzene (HCB)	Methoxychlor	Mirex	All Other OCP analysed	Chlorpyrifos	All other OPP analysed		
Units						mg/kg	mg/kg	mg/kg	mg/L	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg		
PQL						0.5	0.3	0.05		0.5	0.1	0.1	0.05	0.1	0.1	0.05	0.1	0.1	0.1	0.1	0.1	0.1	0.05	0.1		
HIL-B						4	4	400	-	-	1	10	90	-	600	400	20	10	15	500	20	-	340	-		
HIL-B (HEPA, 2025)						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
HSL-B						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
HSL-A & B Clay <1m (Applied to residential ground floor footprint)						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
HSL-D Clay <1m (applied to commercial ground floor footprint)						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
EIL, Urban residential & public open space						-	-	-	-	-	-	-	180	-	-	-	-	-	-	-	-	-				
ESL-A-B-C Fine						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
EGV Direct, all land uses						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
EGV Indirect, all land uses						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
ML-A-B-C Fine						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
TTC Midas MW02	0.5m	19/07/17	CLAY	MW02	ERM (2019)	-	1.2	15.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
TTC Midas MW02 (Field duplicate)	0.5m	19/07/17	CLAY	MW02 (Field Dup)	ERM (2019)	-	1.2	6.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
TTC Midas MW03	0.2m	19/07/17	FILL / Gravelly SAND	MW01	ERM (2019)	-	1.2	< 0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
TTC Midas MW03 (Field duplicate)	0.2m	19/07/17	FILL / Gravelly SAND	MW01 (Field Dup)	ERM (2019)	-	1.2	< 0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
TTC Midas MW03	3m	19/07/17	CLAY	MW01	ERM (2019)	-	1.2	< 0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			

Criteria adopted from the following guidelines:

NEPC, National Environment Protection (Assessment of Site Contamination) Measure 1999 (as amended 201

NEPC, National Environment Protection (Assessment of Site Contamination) Measure 1999 (as amended 201

Notes:

This table does not represent the full analytical results, please refer to the laboratory certificate(s) for full deta

Results displayed in grey text recorded below the laboratory practical quantitation limit (PQL)

Cream shading indicates results with PQL above one or more assessment criteria

EIL - ecological investigation level

EGV - ecological guideline level

ESL - ecological screening level

HIL - health investigation level

HSL - health screening level

ML - management limit

PQL - laboratory practical quantitation limit

Field duplicate is below primary sample

Underlined test locations are within or adjacent to the proposed 'deep soil zone'

Table C1: Summary of laboratory results - soil contaminated land

Sample ID	Depth	Sampled date	Soil description	Original sample ID in original report	Investigation Report	PFAS						Asbestos				
						Perfluorooctane sulfonic acid (PFOS)	Perfluorooctanoic acid (PFOA)	Perfluorohexane sulfonic acid (PFHxS)	Sum of PFHxS and PFOS	Sum of PFAS (PFOS + PFOA)	Sum of PFAS	Asbestos ID / Trace	FA/AF	FA/AF	ACM >7mm	ACM >7mm
						Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	asbestos	g	% w/w	g
PQL						0.0001	0.0001	0.0001	0.0001	0.0001	0.0001			0.001		0.01
HIL-B						-	-	-	-	-	-	-	-	-	-	-
HIL-B (HEPA, 2025)						2	20	2	2	-	-	-	-	-	-	-
HSL-B						-	-	-	-	-	-	0	-	0.001	-	-
HSL-A & B Clay <1m (Applied to residential ground floor footprint)						-	-	-	-	-	-	-	-	-	-	-
HSL-D Clay <1m (applied to commercial ground floor footprint)						-	-	-	-	-	-	-	-	-	-	-
EIL, Urban residential & public open space						-	-	-	-	-	-	-	-	-	-	-
ESL-A-B-C Fine						-	-	-	-	-	-	-	-	-	-	-
EGV Direct, all land uses						1	10	-	-	-	-	-	-	-	-	-
EGV Indirect, all land uses						0.14	0.003	-	-	-	-	-	-	-	-	-
ML-A-B-C Fine						-	-	-	-	-	-	-	-	-	-	-
Test Locations within Residential / Garden Groundfloor Footprint (also includes locations in close proxim																
BH101	0.15m - 0.2m	16/03/26	FILL / Sandy SILT	-	Douglas (Current)	0.0006	0.0002	< 0.0001	0.0006	0.0008	0.001	ABSENT	-	-	-	-
BH101	0.3m - 0.5m	16/03/26	Silty CLAY	-	Douglas (Current)	-	-	-	-	-	-	-	-	-	-	-
BH102	0.5m - 0.65m	16/03/26	FILL / Sandy GRAVEL	-	Douglas (Current)	-	-	-	-	-	-	ABSENT	-	-	-	-
BH102	0.7m - 0.9m	16/03/26	Silty CLAY	-	Douglas (Current)	-	-	-	-	-	-	-	-	-	-	-
BH103	0.11m - 0.3m	16/03/26	FILL / Gravelly CLAY	-	Douglas (Current)	-	-	-	-	-	-	ABSENT	-	-	-	-
BH103	0.4m - 0.6m	16/03/26	FILL / Silty CLAY	-	Douglas (Current)	-	-	-	-	-	-	ABSENT	-	-	-	-
BH103	1.2m - 1.4m	16/03/26	Silty CLAY	-	Douglas (Current)	-	-	-	-	-	-	-	-	-	-	-
BH104	0.15m - 0.3m	16/03/26	FILL / Silty CLAY	-	Douglas (Current)	0.0003	< 0.0001	< 0.0001	0.0003	0.0003	0.0003	ABSENT	0	< 0.001	0	< 0.01
BH104	1.4m - 1.6m	16/03/26	FILL / Silty CLAY	-	Douglas (Current)	-	-	-	-	-	-	ABSENT	-	-	-	-
BD1/12032026	1.4m - 1.6m	16/03/26	FILL / Silty CLAY	-	Douglas (Current)	-	-	-	-	-	-	-	-	-	-	-
BH104	2m - 2.2m	16/03/26	Clayey SILT	-	Douglas (Current)	-	-	-	-	-	-	-	-	-	-	-
BH107	0.05m - 0.15m	13/03/26	FILL / Gravelly SAND	-	Douglas (Current)	-	-	-	-	-	-	ABSENT	-	-	-	-
BH107	0.4m - 0.5m	13/03/26	FILL / CLAY	-	Douglas (Current)	-	-	-	-	-	-	ABSENT	-	-	-	-
TTC BH8	0.13m - 0.23m	27/05/25	FILL / Silty Sandy GRAVELLY CLAY	BH8	TTC (2025b)	-	-	-	-	-	-	ABSENT	-	-	-	-
TTC BH8	0.8m - 0.9m	27/05/25	FILL / Silty CLAY	BH8	TTC (2025b)	-	-	-	-	-	-	-	-	-	-	-
TTC BH9	0.15m - 0.3m	27/05/25	FILL / Silty Gravelly CLAY	BH9	TTC (2025b)	-	-	-	-	-	-	ABSENT	-	-	-	-
TTC BH10	0.13m - 0.23m	27/05/25	FILL / Silty Gravelly CLAY	BH10	TTC (2025b)	-	-	-	-	-	-	ABSENT	-	-	-	-
TTC BH10	0.6m - 0.8m	27/05/25	FILL / Silty CLAY	BH10	TTC (2025b)	-	-	-	-	-	-	ABSENT	-	-	-	-
TTC BH11	0.08m - 0.4m	27/05/25	FILL / Silty Gravelly CLAY	BH11	TTC (2025b)	-	-	-	-	-	-	ABSENT	-	-	-	-
TTC BH12	0.13m - 0.23m	27/05/25	FILL / Silty Sandy GRAVELLY CLAY	BH12	TTC (2025b)	-	-	-	-	-	-	ABSENT	-	-	-	-
TTC BH12	0.4m - 0.5m	27/05/25	FILL / Silty Sandy GRAVELLY CLAY	BH12	TTC (2025b)	-	-	-	-	-	-	ABSENT	-	-	-	-
TTC BH13	0.13m - 0.23m	27/05/25	FILL / Silty Sandy GRAVELLY CLAY	BH13	TTC (2025b)	-	-	-	-	-	-	ABSENT	-	-	-	-
TTC BH14	0.13m - 0.2m	27/05/25	FILL / Silty CLAY	BH14	TTC (2025b)	-	-	-	-	-	-	ABSENT	-	-	-	-
TTC BH14	0.6m - 0.8m	27/05/25	Silty CLAY	BH14	TTC (2025b)	-	-	-	-	-	-	ABSENT	-	-	-	-
TTC BH15	0.4m - 0.5m	27/05/25	Sandy CLAY	BH15	TTC (2025b)	-	-	-	-	-	-	ABSENT	-	-	-	-
TTC BH16	0.23m - 0.3m	27/05/25	Silty CLAY	BH16	TTC (2025b)	-	-	-	-	-	-	ABSENT	-	-	-	-
TTC BH16	0.4m - 0.6m	27/05/25	Silty CLAY	BH16	TTC (2025b)	-	-	-	-	-	-	-	-	-	-	-
TTC BH17	0.13m - 0.23m	27/05/25	FILL / Silty CLAY	BH17	TTC (2025b)	-	-	-	-	-	-	ABSENT	-	-	-	-
TTC BH17	0.4m - 0.5m	27/05/25	Silty CLAY	BH17	TTC (2025b)	-	-	-	-	-	-	ABSENT	-	-	-	-

Table C1: Summary of laboratory results - soil contaminated land

Sample ID	Depth	Sampled date	Soil description	Original sample ID in original report	Investigation Report	PFAS						Asbestos				
						Perfluorooctane sulfonic acid (PFOS)	Perfluorooctanoic acid (PFOA)	Perfluorohexane sulfonic acid (PFHxS)	Sum of PFHxS and PFOS	Sum of PFAS (PFOS + PFOA)	Sum of PFAS	Asbestos ID / Trace	FA/AF	FA/AF	ACM >7mm	ACM >7mm
						mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	asbestos	g	% w/w	g	% w/w
Units						mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	asbestos	g	% w/w	g	% w/w
PQL						0.0001	0.0001	0.0001	0.0001	0.0001	0.0001			0.001		0.01
HIL-B						-	-	-	-	-	-	-	-	-	-	-
HIL-B (HEPA, 2025)						2	20	2	2	-	-	-	-	-	-	-
HSL-B						-	-	-	-	-	-	0	-	0.001	-	-
HSL-A & B Clay <1m (Applied to residential ground floor footprint)						-	-	-	-	-	-	-	-	-	-	-
HSL-D Clay <1m (applied to commercial ground floor footprint)						-	-	-	-	-	-	-	-	-	-	-
EIL, Urban residential & public open space						-	-	-	-	-	-	-	-	-	-	-
ESL-A-B-C Fine						-	-	-	-	-	-	-	-	-	-	-
EGV Direct, all land uses						1	10	-	-	-	-	-	-	-	-	-
EGV Indirect, all land uses						0.14	0.003	-	-	-	-	-	-	-	-	-
ML-A-B-C Fine						-	-	-	-	-	-	-	-	-	-	-
Test Locations within Commercial / Retail Groundfloor Footprint																
BH105	0.4m - 0.5m	13/03/26	FILL / Sandy GRAVEL	-	Douglas (Current)	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	ABSENT	-	-	-	-
BH105	0.9m - 1m	13/03/26	FILL / Sandy CLAY	-	Douglas (Current)	-	-	-	-	-	-	ABSENT	0	< 0.001	0	< 0.01
BH106	0.1m - 0.2m	13/03/26	FILL / Sandy GRAVEL	-	Douglas (Current)	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	ABSENT	0	< 0.001	0	< 0.01
BH106	0.4m - 0.5m	13/03/26	FILL / Sandy GRAVEL	-	Douglas (Current)	-	-	-	-	-	-	ABSENT	0	< 0.001	0	< 0.01
BH106	0.9m - 1m	13/03/26	FILL / Sandy GRAVEL	-	Douglas (Current)	-	-	-	-	-	-	ABSENT	0	< 0.001	0	< 0.01
BH106	1.4m - 1.6m	13/03/26	CLAY	-	Douglas (Current)	-	-	-	-	-	-	-	-	-	-	-
Neo BH1	0.2m - 0.3m	2025	FILL / SAND	BH1	Neo (2025)	-	-	-	-	-	-	-	-	-	-	-
Neo BH2	0.2m - 0.3m	2025	FILL / CLAY	BH2	Neo (2025)	-	-	-	-	-	-	-	-	-	-	-
Neo BH3	0.2m - 0.3m	2025	FILL / SAND	BH3	Neo (2025)	-	-	-	-	-	-	-	-	-	-	-
TTC MW1	0.17m - 0.27m	28/05/25	FILL / Silty CLAY	MW1	TTC (2025b)	-	-	-	-	-	-	PRESENT	-	-	-	-
TTC MW1	0.4m - 0.5m	28/05/25	FILL / SAND	MW1	TTC (2025b)	-	-	-	-	-	-	-	-	-	-	-
TTC MW1	1.9m - 2.1m	28/05/25	FILL / Clayey SAND	MW1	TTC (2025b)	-	-	-	-	-	-	-	-	-	-	-
TTC MW1	3.9m - 4m	28/05/25	SILTSTONE	MW1	TTC (2025b)	-	-	-	-	-	-	-	-	-	-	-
TTC MW1	5.4m - 5.5m	28/05/25	SANDSTONE	MW1	TTC (2025b)	-	-	-	-	-	-	-	-	-	-	-
TTC MW2	0.14m - 0.24m	28/05/25	FILL / Silty Sandy CLAY	MW2	TTC (2025b)	-	-	-	-	-	-	ABSENT	-	-	-	-
TTC MW2	0.4m - 0.5m	28/05/25	FILL / Silty Clayey SAND	MW2	TTC (2025b)	-	-	-	-	-	-	-	-	-	-	-
TTC MW2	1.4m - 1.5m	28/05/25	SAND	MW2	TTC (2025b)	-	-	-	-	-	-	-	-	-	-	-
TTC MW2	1.9m - 2m	28/05/25	SAND	MW2	TTC (2025b)	-	-	-	-	-	-	-	-	-	-	-
TTC MW3	0.17m - 0.27m	28/05/25	FILL / Clayey SAND	MW3	TTC (2025b)	-	-	-	-	-	-	ABSENT	-	-	-	-
TTC MW3	0.9m - 1m	28/05/25	FILL / Clayey SAND	MW3	TTC (2025b)	-	-	-	-	-	-	-	-	-	-	-
TTC MW3	1.4m - 1.5m	28/05/25	SHALE (possibly Silty Clay)	MW3	TTC (2025b)	-	-	-	-	-	-	-	-	-	-	-
TTC MW4	0.17m - 0.27m	28/05/25	FILL / Silty Sandy CLAY	MW4	TTC (2025b)	-	-	-	-	-	-	ABSENT	-	-	-	-
TTC MW4	0.9m - 1m	28/05/25	FILL / SAND	MW4	TTC (2025b)	-	-	-	-	-	-	-	-	-	-	-
TTC MW4	1.4m - 1.5m	28/05/25	FILL / Sandy CLAY	MW4	TTC (2025b)	-	-	-	-	-	-	-	-	-	-	-
TTC BH5	0.2m - 0.6m	28/05/25	FILL / Silty Sandy GRAVEL CLAY	BH5	TTC (2025b)	-	-	-	-	-	-	ABSENT	-	-	-	-
TTC BH5	0.7m - 1m	28/05/25	FILL / SAND	BH5	TTC (2025b)	-	-	-	-	-	-	-	-	-	-	-
TTC BH6	0.2m - 0.4m	28/05/25	FILL / Silty Sandy CLAY	BH6	TTC (2025b)	-	-	-	-	-	-	-	-	-	-	-
TTC BH6	0.5m - 0.8m	28/05/25	Silty CLAY	BH6	TTC (2025b)	-	-	-	-	-	-	-	-	-	-	-
TTC BH7	0.17m - 0.5m	28/05/25	FILL / Silty Sandy CLAY	BH7	TTC (2025b)	-	-	-	-	-	-	ABSENT	-	-	-	-
TTC BH7	2m - 2.3m	28/05/25	SILTSTONE (possibly Silty CLAY)	BH7	TTC (2025b)	-	-	-	-	-	-	-	-	-	-	-
TTC Midas MW01	0.12m	19/07/17	FILL / Gravelly SAND	MW03	ERM (2019)	-	-	-	-	-	-	-	-	-	-	-
TTC Midas MW01	1m	19/07/17	CLAY	MW03	ERM (2019)	-	-	-	-	-	-	-	-	-	-	-
TTC Midas MW02	0.2m	19/07/17	FILL / Gravelly SAND	MW02	ERM (2019)	-	-	-	-	-	-	-	-	-	-	-

Table C1: Summary of laboratory results - soil contaminated land

Sample ID	Depth	Sampled date	Soil description	Original sample ID in original report	Investigation Report	PFAS						Asbestos				
						Perfluorooctane sulfonic acid (PFOS)	Perfluorooctanoic acid (PFOA)	Perfluorohexane sulfonic acid (PFHxS)	Sum of PFHxS and PFOS	Sum of PFAS (PFOS + PFOA)	Sum of PFAS	Asbestos ID / Trace	FA/AF	FA/AF	ACM >7mm	ACM >7mm
						Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	asbestos	g	% w/w	g
PQL						0.0001	0.0001	0.0001	0.0001	0.0001	0.0001			0.001		0.01
HIL-B						-	-	-	-	-	-	-	-	-	-	-
HIL-B (HEPA, 2025)						2	20	2	2	-	-	-	-	-	-	-
HSL-B						-	-	-	-	-	-	0	-	0.001	-	-
HSL-A & B Clay <1m (Applied to residential ground floor footprint)						-	-	-	-	-	-	-	-	-	-	-
HSL-D Clay <1m (applied to commercial ground floor footprint)						-	-	-	-	-	-	-	-	-	-	-
EIL, Urban residential & public open space						-	-	-	-	-	-	-	-	-	-	-
ESL-A-B-C Fine						-	-	-	-	-	-	-	-	-	-	-
EGV Direct, all land uses						1	10	-	-	-	-	-	-	-	-	-
EGV Indirect, all land uses						0.14	0.003	-	-	-	-	-	-	-	-	-
ML-A-B-C Fine						-	-	-	-	-	-	-	-	-	-	-
TTC Midas MW02	0.5m	19/07/17	CLAY	MW02	ERM (2019)	-	-	-	-	-	-	-	-	-	-	-
TTC Midas MW02 (Field duplicate)	0.5m	19/07/17	CLAY	MW02 (Field Dup)	ERM (2019)	-	-	-	-	-	-	-	-	-	-	-
TTC Midas MW03	0.2m	19/07/17	FILL / Gravelly SAND	MW01	ERM (2019)	-	-	-	-	-	-	-	-	-	-	-
TTC Midas MW03 (Field duplicate)	0.2m	19/07/17	FILL / Gravelly SAND	MW01 (Field Dup)	ERM (2019)	-	-	-	-	-	-	-	-	-	-	-
TTC Midas MW03	3m	19/07/17	CLAY	MW01	ERM (2019)	-	-	-	-	-	-	-	-	-	-	-

Criteria adopted from the following guidelines:

NEPC, National Environment Protection (Assessment of Site Contamination) Measure 1999 (as amended 201

NEPC, National Environment Protection (Assessment of Site Contamination) Measure 1999 (as amended 201

Notes:

This table does not represent the full analytical results, please refer to the laboratory certificate(s) for full deta

Results displayed in grey text recorded below the laboratory practical quantitation limit (PQL)

Cream shading indicates results with PQL above one or more assessment criteria

EIL - ecological investigation level

EGV - ecological guideline level

ESL - ecological screening level

HIL - health investigation level

HSL - health screening level

ML - management limit

PQL - laboratory practical quantitation limit

Field duplicate is below primary sample

Underlined test locations are within or adjacent to the proposed 'deep soil zone'

Table C2: Summary of results of preliminary waste classification analysis

Sample ID	Depth	Sampled date	Soil description	Original Location ID	Original Report	Metals										TRH (NEPM 1999)		BTEXN (all)	
						Arsenic	Cadmium	Chromium (Total)	Copper	Lead	Lead TCLP	Mercury	Nickel	Nickel TCLP	Zinc	TRH C6-C9	TRH C10-C36 (sum)	Benzene	Toluene
Units						mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/L	mg/kg	mg/kg	mg/L	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
PQL						1	0.3	1	1	1	0.03	0.05	0.02	0.02	1	25	50	0.1	0.1
General solid waste (CTI)						100	20	100	-	100	-	4	40	-	-	650	10,000	10	288
General solid waste (SCC1)						500	100	1,900	-	1,500	-	50	1,050	-	-	650	10,000	18	518
General solid waste (TCLP1)						-	-	-	-	-	5	-	-	2	-	-	-	-	-
Restricted solid waste (CT2)						400	80	400	-	400	-	16	160	-	-	2,600	40,000	40	1,152
Restricted solid waste (SCC2)						2,000	400	7,600	-	6,000	-	200	4,200	-	-	2,600	40,000	72	2,073
Restricted solid waste (TCLP2)						-	-	-	-	-	20	-	-	8	-	-	-	-	-
Special waste (asbestos)						-	-	-	-	-	-	-	-	-	-	-	-	-	-
Published Background Concentrations (ANZECC 2000)						1-53	0.016-0.71	2.5-673	0.4-412	2-81	-	<0.006-0.15	1-517	-	1-263	<PQL	<PQL	<PQL	<PQL
Published Background Concentrations (NEPC 1999)						1-50	1	5-1000	2-100	2-200	-	0.03	5-500	-	10-300	-	-	-	-
Within proposed basement excavation at the boundary of the deep soil zone																			
BH101	0.15m - 0.2m	16/03/26	FILL / Sandy SILT	BH101	Current	20	2	54	420	1,700	3.5	0.3	35	-	2,200	< 25	1,100	< 0.2	< 0.5
BH101	0.3m - 0.5m	16/03/26	Silty CLAY	BH101	Current	-	-	-	-	11	-	-	-	-	-	< 25	< 50	< 0.2	< 0.5
BH102	0.5m - 0.65m	16/03/26	FILL / Sandy GRAVEL	BH102	Current	6	0.5	19	160	110	< 0.03	< 0.1	36	-	160	< 25	2,400	< 0.2	< 0.5
BH102	0.7m - 0.9m	16/03/26	Silty CLAY	BH102	Current	-	-	-	-	-	-	-	-	-	-	< 25	< 50	< 0.2	< 0.5
BH107	0.05m - 0.15m	13/03/26	FILL / Gravelly SAND	BH107	Current	< 4	< 0.4	14	89	4	-	< 0.1	57	0.07	37	< 25	< 50	< 0.2	< 0.5
BH107	0.4m - 0.5m	13/03/26	FILL / CLAY	BH107	Current	9	< 0.4	54	10	37	-	< 0.1	8	-	15	< 25	< 50	< 0.2	< 0.5
TTC BH17	0.13m - 0.23m	27/05/25	FILL / Silty CLAY	BH17	TTC (2025b)	14	< 1	29	821	245	0.5	< 0.1	24	-	165	-	2480	< 0.2	< 0.5
TTC BH17	0.4m - 0.5m	27/05/25	Silty CLAY	BH17	TTC (2025b)	10	< 1	59	61	84	-	< 0.1	5	-	24	-	910	< 0.2	< 0.5
Within proposed basement excavation																			
BH103	0.11m - 0.3m	16/03/26	FILL / Gravelly CLAY	BH103	Current	< 4	< 0.4	16	100	75	-	< 0.1	79	0.06	56	< 25	140	< 0.2	< 0.5
BH103	0.4m - 0.6m	16/03/26	FILL / Silty CLAY	BH103	Current	8	< 0.4	28	< 1	25	-	< 0.1	< 1	-	3	< 25	< 50	< 0.2	< 0.5
BH103	1.2m - 1.4m	16/03/26	Silty CLAY	BH103	Current	8	< 0.4	20	< 1	17	-	< 0.1	< 1	-	< 1	< 25	< 50	< 0.2	< 0.5
BH104	0.15m - 0.3m	16/03/26	FILL / Silty CLAY	BH104	Current	< 4	< 0.4	6	8	35	-	< 0.1	1	-	150	< 25	340	< 0.2	< 0.5
BH104	1.4m - 1.6m	16/03/26	FILL / Silty CLAY	BH104	Current	4	< 0.4	16	30	91	-	< 0.1	6	-	130	< 25	400	< 0.2	< 0.5
BD1/12032026	1.4m - 1.6m		FILL / Silty CLAY	BD1/12032026	Current	< 4	< 0.4	5	7	59	-	< 0.1	3	-	83	< 25	< 50	< 0.2	< 0.5
BH104	2m - 2.2m	16/03/26	Clayey SILT	BH104	Current	-	-	-	-	-	-	-	-	-	-	< 25	< 50	< 0.2	< 0.5
BH105	0.4m - 0.5m	13/03/26	FILL / Sandy GRAVEL	BH105	Current	11	< 0.4	29	10	36	-	< 0.1	4	-	29	< 25	< 50	< 0.2	< 0.5
BH105	0.9m - 1m	13/03/26	FILL / Sandy CLAY	BH105	Current	14	< 0.4	18	2	7	-	< 0.1	2	-	4	< 25	< 50	< 0.2	< 0.5
BH106	0.1m - 0.2m	13/03/26	FILL / Sandy GRAVEL	BH106	Current	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH106	0.4m - 0.5m	13/03/26	FILL / Sandy GRAVEL	BH106	Current	< 4	< 0.4	11	13	93	-	< 0.1	2	-	120	< 25	440	< 0.2	< 0.5
BH106	0.9m - 1m	13/03/26	FILL / Sandy GRAVEL	BH106	Current	< 4	< 0.4	6	16	130	1.2	< 0.1	2	-	120	< 25	180	< 0.2	< 0.5
BH106	1.4m - 1.6m	13/03/26	CLAY	BH106	Current	-	-	-	-	-	-	-	-	-	-	430	290	0.7	< 0.5
Neo BH1	0.2m - 0.3m	2025	FILL / SAND	BH1	Neo (2025)	2	< 0.3	4.6	4.1	12	-	< 0.05	0.9	-	6	-	-	< 0.1	< 0.1
Neo BH2	0.2m - 0.3m	2025	FILL / CLAY	BH2	Neo (2025)	3	< 0.3	23	1.9	24	-	< 0.05	1.2	-	22	-	-	0.1	< 0.1
Neo BH3	0.2m - 0.3m	2025	FILL / SAND	BH3	Neo (2025)	3	< 0.3	31	7.8	14	-	< 0.05	5.2	-	18	-	-	< 0.1	< 0.1
TTC MW1	0.17m - 0.27m	28/05/25	FILL / Silty CLAY	MW1	TTC (2025b)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TTC MW1	0.4m - 0.5m	28/05/25	FILL / SAND	MW1	TTC (2025b)	< 5	< 1	7	7	60	-	< 0.1	< 2	-	71	< 10	< 50	< 0.2	< 0.5
TTC MW1	1.9m - 2.1m	28/05/25	FILL / Clayey SAND	MW1	TTC (2025b)	< 5	< 1	5	5	27	-	< 0.1	< 2	-	66	< 10	< 50	< 0.2	< 0.5

Table C2: Summary of results of preliminary waste classification analysis

Sample ID	Depth	Sampled date	Soil description	Original Location ID	Original Report	Metals										TRH (NEPM 1999)		BTEXN (all)	
						Arsenic	Cadmium	Chromium (Total)	Copper	Lead	Lead TCLP	Mercury	Nickel	Nickel TCLP	Zinc	TRH C6-C9	TRH C10-C36 (sum)	Benzene	Toluene
Units						mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/L	mg/kg	mg/kg	mg/L	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
PQL						1	0.3	1	1	1	0.03	0.05	0.02	0.02	1	25	50	0.1	0.1
General solid waste (CTI)						100	20	100	-	100	-	4	40	-	-	650	10,000	10	288
General solid waste (SCC1)						500	100	1,900	-	1,500	-	50	1,050	-	-	650	10,000	18	518
General solid waste (TCLP1)						-	-	-	-	-	5	-	-	2	-	-	-	-	-
Restricted solid waste (CT2)						400	80	400	-	400	-	16	160	-	-	2,600	40,000	40	1,152
Restricted solid waste (SCC2)						2,000	400	7,600	-	6,000	-	200	4,200	-	-	2,600	40,000	72	2,073
Restricted solid waste (TCLP2)						-	-	-	-	-	20	-	-	8	-	-	-	-	-
Special waste (asbestos)						-	-	-	-	-	-	-	-	-	-	-	-	-	-
Published Background Concentrations (ANZECC 2000)						1-53	0.016-0.74	2.5-673	0.4-412	2-81	-	<0.006-0.15	1-517	-	1-263	<PQL	<PQL	<PQL	<PQL
Published Background Concentrations (NEPC 1999)						1-50	1	5-1000	2-100	2-200	-	0.03	5-500	-	10-300	-	-	-	-
TTC MW1	3.9m - 4m	28/05/25	SILTSTONE	MW1	TTC (2025b)	< 5	< 1	7	< 5	27	-	< 0.1	< 2	-	76	10	< 50	< 0.2	< 0.5
TTC MW1	5.4m - 5.5m	28/05/25	SANDSTONE	MW1	TTC (2025b)	< 5	< 1	3	< 5	10	-	< 0.1	< 2	-	< 5	< 10	< 50	< 0.2	< 0.5
TTC MW2	0.14m - 0.24m	28/05/25	FILL / Silty Sandy CLAY	MW2	TTC (2025b)	-	-	-	-	-	-	-	-	-	-	-	< 50	-	-
TTC MW2	0.4m - 0.5m	28/05/25	FILL / Silty Clayey SAND	MW2	TTC (2025b)	< 5	< 1	10	5	113	0.4	< 0.1	< 2	-	108	< 10	< 50	< 0.2	< 0.5
TTC MW2	1.4m - 1.5m	28/05/25	SAND	MW2	TTC (2025b)	< 5	< 1	15	< 5	12	-	< 0.1	< 2	-	< 5	< 10	< 50	< 0.2	< 0.5
TTC MW2	1.9m - 2m	28/05/25	SAND	MW2	TTC (2025b)	< 5	< 1	8	< 5	10	-	< 0.1	< 2	-	< 5	< 10	< 50	< 0.2	< 0.5
TTC MW3	0.17m - 0.27m	28/05/25	FILL / Clayey SAND	MW3	TTC (2025b)	< 5	< 1	10	16	72	-	< 0.1	4	-	74	< 10	< 50	< 0.2	< 0.5
TTC MW3	0.9m - 1m	28/05/25	FILL / Clayey SAND	MW3	TTC (2025b)	5	< 1	13	10	87	-	< 0.1	3	-	119	< 10	< 50	< 0.2	< 0.5
TTC MW3	1.4m - 1.5m	28/05/25	SHALE (possibly Silty	MW3	TTC (2025b)	< 5	< 1	9	< 5	21	-	< 0.1	< 2	-	< 5	< 10	< 50	< 0.2	< 0.5
TTC MW4	0.17m - 0.27m	28/05/25	FILL / Silty Sandy CLAY	MW4	TTC (2025b)	< 5	< 1	5	< 5	22	-	< 0.1	< 2	-	41	< 10	< 50	< 0.2	< 0.5
TTC MW4	0.9m - 1m	28/05/25	FILL / SAND	MW4	TTC (2025b)	< 5	< 1	5	< 5	< 5	-	< 0.1	< 2	-	< 5	< 10	< 50	< 0.2	< 0.5
TTC MW4	1.4m - 1.5m	28/05/25	FILL / Sandy CLAY	MW4	TTC (2025b)	< 5	< 1	7	< 5	15	-	< 0.1	< 2	-	11	< 10	< 50	< 0.2	< 0.5
TTC BH5	0.2m - 0.6m	28/05/25	FILL / Silty Sandy GRAVEL	BH5	TTC (2025b)	< 5	< 1	11	9	33	-	< 0.1	3	-	51	< 10	< 50	< 0.2	< 0.5
TTC BH5	0.7m - 1m	28/05/25	FILL / SAND	BH5	TTC (2025b)	< 5	< 1	8	< 5	27	-	< 0.1	< 2	-	36	< 10	230	< 0.2	< 0.5
TTC BH6	0.2m - 0.4m	28/05/25	FILL / Silty Sandy CLAY	BH6	TTC (2025b)	< 5	< 1	4	< 5	5	-	< 0.1	< 2	-	< 5	< 10	< 50	< 0.2	< 0.5
TTC BH6	0.5m - 0.8m	28/05/25	Silty CLAY	BH6	TTC (2025b)	< 5	< 1	14	< 5	10	-	< 0.1	< 2	-	< 5	< 10	< 50	< 0.2	< 0.5
TTC BH7	0.17m - 0.5m	28/05/25	FILL / Silty Sandy CLAY	BH7	TTC (2025b)	< 5	< 1	18	24	129	-	< 0.1	8	-	125	< 10	< 50	< 0.2	< 0.5
TTC BH7	2m - 2.3m	28/05/25	SILTSTONE (possibly Silty CLAY)	BH7	TTC (2025b)	< 5	< 1	5	< 5	10	-	< 0.1	< 2	-	< 5	< 10	< 50	< 0.2	< 0.5
TTC BH8	0.13m - 0.23m	27/05/25	FILL / Silty Sandy	BH8	TTC (2025b)	< 5	< 1	11	23	67	-	< 0.1	4	-	92	< 10	150	< 0.2	< 0.5
TTC BH8	0.8m - 0.9m	27/05/25	FILL / Silty CLAY	BH8	TTC (2025b)	< 5	< 1	8	11	41	-	< 0.1	2	-	82	< 10	< 50	< 0.2	< 0.5
TTC BH9	0.15m - 0.3m	27/05/25	FILL / Silty Gravelly CLAY	BH9	TTC (2025b)	< 5	< 1	12	18	42	-	< 0.1	6	-	63	< 10	< 50	< 0.2	< 0.5
TTC BH10	0.13m - 0.23m	27/05/25	FILL / Silty Gravelly CLAY	BH10	TTC (2025b)	8	< 1	10	17	48	-	< 0.1	3	-	55	< 10	< 50	< 0.2	< 0.5
TTC BH10	0.6m - 0.8m	27/05/25	FILL / Silty CLAY	BH10	TTC (2025b)	< 5	< 1	29	27	68	-	< 0.1	12	-	99	< 10	< 50	< 0.2	< 0.5
TTC BH11	0.08m - 0.4m	27/05/25	FILL / Silty Gravelly CLAY	BH11	TTC (2025b)	< 5	< 1	45	53	56	-	< 0.1	24	-	87	< 10	< 50	< 0.2	< 0.5
TTC BH12	0.13m - 0.23m	27/05/25	FILL / Silty Sandy	BH12	TTC (2025b)	< 5	< 1	20	86	16	-	< 0.1	85	< 0.1	53	< 10	100	< 0.2	< 0.5
TTC BH12	0.4m - 0.5m	27/05/25	FILL / Silty Sandy	BH12	TTC (2025b)	< 5	< 1	27	69	14	-	< 0.1	77	< 0.1	43	< 10	< 50	< 0.2	< 0.5
TTC BH13	0.13m - 0.23m	27/05/25	FILL / Silty Sandy	BH13	TTC (2025b)	< 5	< 1	17	30	49	-	< 0.1	8	-	54	< 10	< 50	< 0.2	< 0.5
TTC BH14	0.13m - 0.2m	27/05/25	FILL / Silty CLAY	BH14	TTC (2025b)	< 5	< 1	14	45	69	-	< 0.1	< 2	-	143	< 10	460	< 0.2	< 0.5

Table C2: Summary of results of preliminary waste classification analysis

Sample ID	Depth	Sampled date	Soil description	Original Location ID	Original Report	Metals										TRH (NEPM 1999)		BTEXN (all)	
						Arsenic	Cadmium	Chromium (Total)	Copper	Lead	Lead TCLP	Mercury	Nickel	Nickel TCLP	Zinc	TRH C6-C9	TRH C10-C36 (sum)	Benzene	Toluene
Units						mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/L	mg/kg	mg/kg	mg/L	mg/kg	mg/kg	mg/kg	mg/kg	
PQL						1	0.3	1	1	1	0.03	0.05	0.02	0.02	1	25	50	0.1	0.1
General solid waste (CT1)						100	20	100	-	100	-	4	40	-	-	650	10,000	10	288
General solid waste (SCC1)						500	100	1,900	-	1,500	-	50	1,050	-	-	650	10,000	18	518
General solid waste (TCLP1)						-	-	-	-	-	5	-	-	2	-	-	-	-	-
Restricted solid waste (CT2)						400	80	400	-	400	-	16	160	-	-	2,600	40,000	40	1,152
Restricted solid waste (SCC2)						2,000	400	7,600	-	6,000	-	200	4,200	-	-	2,600	40,000	72	2,073
Restricted solid waste (TCLP2)						-	-	-	-	-	20	-	-	8	-	-	-	-	-
Special waste (asbestos)						-	-	-	-	-	-	-	-	-	-	-	-	-	-
Published Background Concentrations (ANZECC 2000)						1-53	0.016-0.74	2.5-673	0.4-412	2-81	-	<0.006-0.15	1-517	-	1-263	<PQL	<PQL	<PQL	<PQL
Published Background Concentrations (NEPC 1999)						1-50	1	5-1000	2-100	2-200	-	0.03	5-500	-	10-300	-	-	-	-
TTC BH14	0.6m - 0.8m	27/05/25	Silty CLAY	BH14	TTC (2025b)	5	<1	34	<5	34	-	<0.1	<2	-	<5	<10	<50	<0.2	<0.5
TTC BH15	0.4m - 0.5m	27/05/25	Sandy CLAY	BH15	TTC (2025b)	9	<1	31	<5	24	-	<0.1	<2	-	<5	<10	<50	<0.2	<0.5
TTC BH16	0.23m - 0.3m	27/05/25	Silty CLAY	BH16	TTC (2025b)	6	<1	20	74	228	-	<0.1	10	-	83	<10	370	<0.2	<0.5
TTC BH16	0.4m - 0.6m	27/05/25	Silty CLAY	BH16	TTC (2025b)	6	<1	37	7	53	-	<0.1	3	-	16	<10	<50	<0.2	<0.5
TTC Midas MW01	0.12m	19/07/17	FILL / Gravelly SAND	MW03	ERM (2019)	<5	<1	<2	<5	<5	-	<0.1	2	-	10	<10	-	<0.2	<0.5
TTC Midas MW01	1m	19/07/17	CLAY	MW03	ERM (2019)	<5	<1	11	<5	11	-	<0.1	<2	-	<5	<10	-	<0.2	<0.5
TTC Midas MW02	0.2m	19/07/17	FILL / Gravelly SAND	MW02	ERM (2019)	<5	<1	10	31	329	-	<0.1	7	-	430	27	80	<0.2	<0.5
TTC Midas MW02	0.5m	19/07/17	CLAY	MW02	ERM (2019)	<5	<1	7	<5	30	-	<0.1	<2	-	<5	3,850	620	12	160
TTC Midas MW02 (Field duplicate)	0.5m	19/07/17	CLAY	MW02 (Field Dup)	ERM (2019)	11	<0.4	13	<5	38	-	<0.1	<5	-	<5	2000	520	6.4	120
TTC Midas MW03	0.2m	19/07/17	FILL / Gravelly SAND	MW01	ERM (2019)	7	<1	28	10	29	-	<0.1	<2	-	27	<10	-	<0.2	<0.5
TTC Midas MW03 (Field duplicate)	0.2m	19/07/17	FILL / Gravelly SAND	MW01 (Field Dup)	ERM (2019)	11	<1	42	<5	30	-	<0.1	6	-	<5	<10	-	<0.2	<0.5
TTC Midas MW03	3m	19/07/17	CLAY	MW01	ERM (2019)	<5	<1	<2	<5	18	-	<0.1	<2	-	<5	13	-	<0.2	<0.5

Criteria adopted from the following guidelines:

NSW EPA, Waste Classification Guidelines Part 1: Classifying waste (2014)

NSW EPA, Addendum to the Waste Classification Guideline (2014) - Part 1: classifying waste (2016)

ANZECC (2000) *Australian and New Zealand Guidelines for Fresh and Marine Water Quality* , Volume 3, Table 9.2.16 Datasets used to derive suggested upper background values for uncontaminated Australian soils

Notes:

This table does not represent the full analytical results, please refer to the laboratory certificate(s) for full details

Results displayed in grey text recorded below the laboratory practical quantitation limit (PQL)

Cream shading indicates results with PQL above one or more assessment criteria

CT - contaminant threshold

PQL - laboratory practical quantitation limit

SCC - specific contaminant concentration

TCLP - toxicity characteristic leaching procedure

Field duplicate is below primary sample

Table C2: Summary of results of preliminary waste classification analysis

Sample ID	Depth	Sampled date	Soil description	Original Location ID	Original Report				PAH				Phenols	PCB	OCP		OPP		
						Ethylbenzene	Xylene (Total)	Napthalene (VOC)	Benzo(a)pyrene	Benzo(a)pyrene	Total PAH (sum of analysed)	Total PAH (sum of analysed)	Phenolics (Total)(as phenol)	PCB (Total)	All other OCP Analysed	Aldrin + Dieldrin	Total Endosulfan (Calc)	All other OPP analysed	Chlorpyrifos
Units						mg/kg	mg/kg	mg/kg	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	
PQL						0.1	0.2	0.1	0.05	0.0001	0.05		0.5	0.1	0.1	0.1		0.1	0.05
General solid waste (CT1)						600	1,000	-	0.8	-	200	-	288	50	-	-	60	-	4
General solid waste (SCC1)						1,080	1,800	-	10	-	200	-	518	50	-	-	108	-	7.5
General solid waste (TCLP1)						-	-	-	-	0.04	-	-	-	-	-	-	-	-	-
Restricted solid waste (CT2)						2,400	4,000	-	3.2	-	800	-	1,152	50	-	-	240	-	16
Restricted solid waste (SCC2)						4,320	7,200	-	23	-	800	-	2,073	50	-	-	432	-	30
Restricted solid waste (TCLP2)						-	-	-	-	0.16	-	-	-	-	-	-	-	-	-
Special waste (asbestos)						-	-	-	-	-	-	-	-	-	-	-	-	-	-
Published Background Concentrations (ANZECC 2000)						<PQL	<PQL	<PQL	<PQL	<PQL	<PQL	<PQL	<PQL	<PQL	<PQL	<PQL	<PQL	<PQL	<PQL
Published Background Concentrations (NEPC 1999)						-	-	-	-	-	-	-	-	-	-	-	-	-	-
Within proposed basement excavation at the boundary of the deep soil zone																			
BH101	0.15m - 0.2m	16/03/26	FILL / Sandy SILT	BH101	Current	<1	<1	<1	0.5	-	8.4	-	< 5	1.1	< 0.1	< 0.1	< 0.3	< 0.1	< 0.1
BH101	0.3m - 0.5m	16/03/26	Silty CLAY	BH101	Current	<1	<1	<1	-	-	-	-	-	-	-	-	-	-	-
BH102	0.5m - 0.65m	16/03/26	FILL / Sandy GRAVEL	BH102	Current	<1	<1	<1	0.07	-	0.51	-	< 5	< 0.1	< 0.1	< 0.1	< 0.3	< 0.1	< 0.1
BH102	0.7m - 0.9m	16/03/26	Silty CLAY	BH102	Current	<1	<1	<1	-	-	-	-	-	-	-	-	-	-	-
BH107	0.05m - 0.15m	13/03/26	FILL / Gravelly SAND	BH107	Current	<1	<1	<1	0.07	-	0.2	-	-	-	-	-	-	-	-
BH107	0.4m - 0.5m	13/03/26	FILL / CLAY	BH107	Current	<1	<1	<1	0.2	-	1.1	-	-	-	-	-	-	-	-
TTC BH17	0.13m - 0.23m	27/05/25	FILL / Silty CLAY	BH17	TTC (2025b)	< 0.5	< 0.5	<1	3	-	28.8	-	< 0.5	-	-	< 0.05	< 0.05	-	< 0.05
TTC BH17	0.4m - 0.5m	27/05/25	Silty CLAY	BH17	TTC (2025b)	< 0.5	< 0.5	<1	< 0.5	-	< 0.5	-	< 0.5	-	-	< 0.05	< 0.05	-	< 0.05
Within proposed basement excavation																			
BH103	0.11m - 0.3m	16/03/26	FILL / Gravelly CLAY	BH103	Current	<1	<1	<1	< 0.05	-	< 0.05	-	-	-	-	-	-	-	-
BH103	0.4m - 0.6m	16/03/26	FILL / Silty CLAY	BH103	Current	<1	<1	<1	< 0.05	-	< 0.05	-	< 5	< 0.1	< 0.1	< 0.1	< 0.3	< 0.1	< 0.1
BH103	1.2m - 1.4m	16/03/26	Silty CLAY	BH103	Current	<1	<1	<1	< 0.05	-	< 0.05	-	-	-	-	-	-	-	-
BH104	0.15m - 0.3m	16/03/26	FILL / Silty CLAY	BH104	Current	<1	<1	<1	< 0.05	-	< 0.05	-	< 5	< 0.1	< 0.1	0.1	< 0.3	< 0.1	< 0.1
BH104	1.4m - 1.6m	16/03/26	FILL / Silty CLAY	BH104	Current	<1	<1	<1	0.1	-	0.96	-	-	-	-	-	-	-	-
BD1/12032026	1.4m - 1.6m		FILL / Silty CLAY	BD1/12032026	Current	<1	<1	<1	1.6	-	9.1	-	-	-	-	-	-	-	-
BH104	2m - 2.2m	16/03/26	Clayey SILT	BH104	Current	<1	<1	<1	-	-	-	-	-	-	-	-	-	-	-
BH105	0.4m - 0.5m	13/03/26	FILL / Sandy GRAVEL	BH105	Current	<1	<1	<1	0.97	< 0.0001	11	0.0005	< 5	< 0.1	< 0.1	< 0.1	< 0.3	< 0.1	< 0.1
BH105	0.9m - 1m	13/03/26	FILL / Sandy CLAY	BH105	Current	<1	<1	<1	< 0.05	-	< 0.05	-	-	-	-	-	-	-	-
BH106	0.1m - 0.2m	13/03/26	FILL / Sandy GRAVEL	BH106	Current	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH106	0.4m - 0.5m	13/03/26	FILL / Sandy GRAVEL	BH106	Current	<1	<1	<1	3.1	< 0.0001	27	0.0004	-	-	-	-	-	-	-
BH106	0.9m - 1m	13/03/26	FILL / Sandy GRAVEL	BH106	Current	<1	<1	<1	0.5	-	9	-	-	-	-	-	-	-	-
BH106	1.4m - 1.6m	13/03/26	CLAY	BH106	Current	<1	<1	<1	-	-	-	-	-	-	-	-	-	-	-
Neo BH1	0.2m - 0.3m	2025	FILL / SAND	BH1	Neo (2025)	< 0.1	< 0.2	< 0.1	< 0.1	-	< 0.8	-	-	-	-	-	-	-	-
Neo BH2	0.2m - 0.3m	2025	FILL / CLAY	BH2	Neo (2025)	< 0.1	0.4	< 0.1	0.1	-	< 0.8	-	-	-	-	-	-	-	-
Neo BH3	0.2m - 0.3m	2025	FILL / SAND	BH3	Neo (2025)	< 0.1	< 0.2	< 0.1	< 0.1	-	< 0.8	-	-	-	-	-	-	-	-
TTC MW1	0.17m - 0.27m	28/05/25	FILL / Silty CLAY	MW1	TTC (2025b)	-	-	-	-	-	-	-	-	-	-	-	0	-	-
TTC MW1	0.4m - 0.5m	28/05/25	FILL / SAND	MW1	TTC (2025b)	< 0.5	< 0.5	<1	< 0.5	-	< 0.5	-	< 0.5	-	-	< 0.05	< 0.05	-	< 0.05
TTC MW1	1.9m - 2.1m	28/05/25	FILL / Clayey SAND	MW1	TTC (2025b)	< 0.5	< 0.5	<1	< 0.5	-	2.3	-	< 0.5	-	-	< 0.05	< 0.05	-	< 0.05

Table C2: Summary of results of preliminary waste classification analysis

Sample ID	Depth	Sampled date	Soil description	Original Location ID	Original Report				PAH				Phenols	PCB	OCP		OPP		
						Ethylbenzene	Xylene (Total)	Naphthalene (VOC)	Benzo(a)pyrene	Benzo(a)pyrene	Total PAH (sum of analysed)	Total PAH (sum of analysed)	Phenolics (Total)(as phenol)	PCB (Total)	All other OCP Analysed	Aldrin + Dieldrin	Total Endosulfan (Calc)	All other OPP analysed	Chlorpyrifos
Units						mg/kg	mg/kg	mg/kg	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	
PQL						0.1	0.2	0.1	0.05	0.0001	0.05		0.5	0.1	0.1	0.1		0.1	0.05
General solid waste (CTI)						600	1,000	-	0.8	-	200	-	288	50	-	-	60	-	4
General solid waste (SCC1)						1,080	1,800	-	10	-	200	-	518	50	-	-	108	-	7.5
General solid waste (TCLP1)						-	-	-	-	0.04	-	-	-	-	-	-	-	-	-
Restricted solid waste (CT2)						2,400	4,000	-	3.2	-	800	-	1,152	50	-	-	240	-	16
Restricted solid waste (SCC2)						4,320	7,200	-	23	-	800	-	2,073	50	-	-	432	-	30
Restricted solid waste (TCLP2)						-	-	-	-	0.16	-	-	-	-	-	-	-	-	-
Special waste (asbestos)						-	-	-	-	-	-	-	-	-	-	-	-	-	-
Published Background Concentrations (ANZECC 2000)						<PQL	<PQL	<PQL	<PQL	<PQL	<PQL	<PQL	<PQL	<PQL	<PQL	<PQL	<PQL	<PQL	<PQL
Published Background Concentrations (NEPC 1999)						-	-	-	-	-	-	-	-	-	-	-	-	-	-
TTC MW1	3.9m - 4m	28/05/25	SILTSTONE	MW1	TTC (2025b)	< 0.5	< 0.5	<1	< 0.5	-	9.9	-	< 0.5	-	-	< 0.05	< 0.05	-	< 0.05
TTC MW1	5.4m - 5.5m	28/05/25	SANDSTONE	MW1	TTC (2025b)	< 0.5	< 0.5	<1	< 0.5	-	< 0.5	-	< 0.5	-	-	< 0.05	< 0.05	-	< 0.05
TTC MW2	0.14m - 0.24m	28/05/25	FILL / Silty Sandy CLAY	MW2	TTC (2025b)	-	-	-	-	-	-	-	-	-	-	-	0	-	-
TTC MW2	0.4m - 0.5m	28/05/25	FILL / Silty Clayey SAND	MW2	TTC (2025b)	< 0.5	< 0.5	<1	< 0.5	-	< 0.5	-	< 0.5	-	-	< 0.05	< 0.05	-	< 0.05
TTC MW2	1.4m - 1.5m	28/05/25	SAND	MW2	TTC (2025b)	< 0.5	< 0.5	<1	< 0.5	-	< 0.5	-	< 0.5	-	-	< 0.05	< 0.05	-	< 0.05
TTC MW2	1.9m - 2m	28/05/25	SAND	MW2	TTC (2025b)	< 0.5	< 0.5	<1	< 0.5	-	< 0.5	-	< 0.5	-	-	< 0.05	< 0.05	-	< 0.05
TTC MW3	0.17m - 0.27m	28/05/25	FILL / Clayey SAND	MW3	TTC (2025b)	< 0.5	< 0.5	<1	< 0.5	-	1.4	-	< 0.5	-	-	< 0.05	< 0.05	-	< 0.05
TTC MW3	0.9m - 1m	28/05/25	FILL / Clayey SAND	MW3	TTC (2025b)	< 0.5	< 0.5	<1	< 0.5	-	< 0.5	-	< 0.5	-	-	< 0.05	< 0.05	-	< 0.05
TTC MW3	1.4m - 1.5m	28/05/25	SHALE (possibly Silty	MW3	TTC (2025b)	< 0.5	< 0.5	<1	< 0.5	-	< 0.5	-	< 0.5	-	-	< 0.05	< 0.05	-	< 0.05
TTC MW4	0.17m - 0.27m	28/05/25	FILL / Silty Sandy CLAY	MW4	TTC (2025b)	< 0.5	< 0.5	<1	< 0.5	-	< 0.5	-	< 0.5	-	-	< 0.05	< 0.05	-	< 0.05
TTC MW4	0.9m - 1m	28/05/25	FILL / SAND	MW4	TTC (2025b)	< 0.5	< 0.5	<1	< 0.5	-	< 0.5	-	< 0.5	-	-	< 0.05	< 0.05	-	< 0.05
TTC MW4	1.4m - 1.5m	28/05/25	FILL / Sandy CLAY	MW4	TTC (2025b)	< 0.5	< 0.5	<1	< 0.5	-	< 0.5	-	< 0.5	-	-	< 0.05	< 0.05	-	< 0.05
TTC BH5	0.2m - 0.6m	28/05/25	FILL / Silty Sandy GRAVEL	BH5	TTC (2025b)	< 0.5	< 0.5	<1	< 0.5	-	< 0.5	-	< 0.5	-	-	< 0.05	< 0.05	-	< 0.05
TTC BH5	0.7m - 1m	28/05/25	FILL / SAND	BH5	TTC (2025b)	< 0.5	< 0.5	<1	< 0.5	-	< 0.5	-	< 0.5	-	-	< 0.05	< 0.05	-	< 0.05
TTC BH6	0.2m - 0.4m	28/05/25	FILL / Silty Sandy CLAY	BH6	TTC (2025b)	< 0.5	< 0.5	<1	< 0.5	-	< 0.5	-	< 0.5	-	-	< 0.05	< 0.05	-	< 0.05
TTC BH6	0.5m - 0.8m	28/05/25	Silty CLAY	BH6	TTC (2025b)	< 0.5	< 0.5	<1	< 0.5	-	< 0.5	-	< 0.5	-	-	< 0.05	< 0.05	-	< 0.05
TTC BH7	0.17m - 0.5m	28/05/25	FILL / Silty Sandy CLAY	BH7	TTC (2025b)	< 0.5	< 0.5	<1	< 0.5	-	< 0.5	-	< 0.5	-	-	< 0.05	< 0.05	-	< 0.05
TTC BH7	2m - 2.3m	28/05/25	SILTSTONE (possibly Silty CLAY)	BH7	TTC (2025b)	< 0.5	< 0.5	<1	< 0.5	-	< 0.5	-	< 0.5	-	-	< 0.05	< 0.05	-	< 0.05
TTC BH8	0.13m - 0.23m	27/05/25	FILL / Silty Sandy	BH8	TTC (2025b)	< 0.5	< 0.5	<1	< 0.5	-	< 0.5	-	< 0.5	-	-	< 0.05	< 0.05	-	< 0.05
TTC BH8	0.8m - 0.9m	27/05/25	FILL / Silty CLAY	BH8	TTC (2025b)	< 0.5	< 0.5	<1	< 0.5	-	< 0.5	-	< 0.5	-	-	0.89	< 0.05	-	< 0.05
TTC BH9	0.15m - 0.3m	27/05/25	FILL / Silty Gravelly CLAY	BH9	TTC (2025b)	< 0.5	< 0.5	<1	< 0.5	-	< 0.5	-	< 0.5	-	-	< 0.05	< 0.05	-	< 0.05
TTC BH10	0.13m - 0.23m	27/05/25	FILL / Silty Gravelly CLAY	BH10	TTC (2025b)	< 0.5	< 0.5	<1	< 0.5	-	< 0.5	-	< 0.5	-	-	0.11	< 0.05	-	< 0.05
TTC BH10	0.6m - 0.8m	27/05/25	FILL / Silty CLAY	BH10	TTC (2025b)	< 0.5	< 0.5	<1	< 0.5	-	< 0.5	-	< 0.5	-	-	0.39	< 0.05	-	< 0.05
TTC BH11	0.08m - 0.4m	27/05/25	FILL / Silty Gravelly CLAY	BH11	TTC (2025b)	< 0.5	< 0.5	<1	< 0.5	-	2	-	< 0.5	-	-	0.08	< 0.05	-	< 0.05
TTC BH12	0.13m - 0.23m	27/05/25	FILL / Silty Sandy	BH12	TTC (2025b)	< 0.5	< 0.5	<1	< 0.5	-	< 0.5	-	< 0.5	-	-	< 0.05	< 0.05	-	< 0.05
TTC BH12	0.4m - 0.5m	27/05/25	FILL / Silty Sandy	BH12	TTC (2025b)	< 0.5	< 0.5	<1	< 0.5	-	< 0.5	-	< 0.5	-	-	< 0.05	< 0.05	-	< 0.05
TTC BH13	0.13m - 0.23m	27/05/25	FILL / Silty Sandy	BH13	TTC (2025b)	< 0.5	< 0.5	<1	0.7	-	7.3	-	< 0.5	-	-	< 0.05	< 0.05	-	< 0.05
TTC BH14	0.13m - 0.2m	27/05/25	FILL / Silty CLAY	BH14	TTC (2025b)	< 0.5	< 0.5	<1	4.3	<0.0005	38.9	-	< 0.5	-	-	< 0.05	< 0.05	-	< 0.05

Table C2: Summary of results of preliminary waste classification analysis

Sample ID	Depth	Sampled date	Soil description	Original Location ID	Original Report				PAH				Phenols	PCB	OCP		OPP		
						Ethylbenzene	Xylene (Total)	Naphthalene (VOC)	Benzo(a)pyrene	Benzo(a)pyrene	Total PAH (sum of analysed)	Total PAH (sum of analysed)	Phenolics (Total)(as phenol)	PCB (Total)	All other OCP Analysed	Aldrin + Dieldrin	Total Endosulfan (Calc)	All other OPP analysed	Chlorpyrifos
Units						mg/kg	mg/kg	mg/kg	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	
PQL						0.1	0.2	0.1	0.05	0.0001	0.05		0.5	0.1	0.1	0.1		0.1	0.05
General solid waste (CT1)						600	1,000	-	0.8	-	200	-	288	50	-	-	60	-	4
General solid waste (SCC1)						1,080	1,800	-	10	-	200	-	518	50	-	-	108	-	7.5
General solid waste (TCLP1)						-	-	-	-	0.04	-	-	-	-	-	-	-	-	-
Restricted solid waste (CT2)						2,400	4,000	-	3.2	-	800	-	1,152	50	-	-	240	-	16
Restricted solid waste (SCC2)						4,320	7,200	-	23	-	800	-	2,073	50	-	-	432	-	30
Restricted solid waste (TCLP2)						-	-	-	-	0.16	-	-	-	-	-	-	-	-	-
Special waste (asbestos)						-	-	-	-	-	-	-	-	-	-	-	-	-	-
Published Background Concentrations (ANZECC 2000)						<PQL	<PQL	<PQL	<PQL	<PQL	<PQL	<PQL	<PQL	<PQL	<PQL	<PQL	<PQL	<PQL	<PQL
Published Background Concentrations (NEPC 1999)						-	-	-	-	-	-	-	-	-	-	-	-	-	-
TTC BH14	0.6m - 0.8m	27/05/25	Silty CLAY	BH14	TTC (2025b)	< 0.5	< 0.5	<1	< 0.5	-	< 0.5	-	< 0.5	-	-	< 0.05	< 0.05	-	< 0.05
TTC BH15	0.4m - 0.5m	27/05/25	Sandy CLAY	BH15	TTC (2025b)	< 0.5	< 0.5	<1	< 0.5	-	< 0.5	-	< 0.5	-	-	< 0.05	< 0.05	-	< 0.05
TTC BH16	0.23m - 0.3m	27/05/25	Silty CLAY	BH16	TTC (2025b)	< 0.5	< 0.5	<1	6.7	<0.0005	54.4	-	< 0.5	-	-	0.55	< 0.05	-	< 0.05
TTC BH16	0.4m - 0.6m	27/05/25	Silty CLAY	BH16	TTC (2025b)	< 0.5	< 0.5	<1	0.6	-	2.8	-	< 0.5	-	-	< 0.05	< 0.05	-	< 0.05
TTC Midas MW01	0.12m	19/07/17	FILL / Gravelly SAND	MW03	ERM (2019)	< 0.5	< 0.5	< 0.5	< 0.5	-	< 0.5	-	-	-	-	-	-	-	-
TTC Midas MW01	1m	19/07/17	CLAY	MW03	ERM (2019)	< 0.5	< 0.5	< 0.5	< 0.5	-	< 0.5	-	-	-	-	-	-	-	-
TTC Midas MW02	0.2m	19/07/17	FILL / Gravelly SAND	MW02	ERM (2019)	< 0.5	4.2	3	< 0.5	-	2.2	-	-	-	-	-	-	-	-
TTC Midas MW02	0.5m	19/07/17	CLAY	MW02	ERM (2019)	149	925	28	< 0.5	-	15.8	-	-	-	-	-	-	-	-
TTC Midas MW02 (Field duplicate)	0.5m	19/07/17	CLAY	MW02 (Field Dup)	ERM (2019)	120	820	57	< 0.5	-	6.5	-	-	-	-	-	-	-	-
TTC Midas MW03	0.2m	19/07/17	FILL / Gravelly SAND	MW01	ERM (2019)	< 0.5	< 0.5	< 0.5	< 0.5	-	< 0.5	-	-	-	-	-	-	-	-
TTC Midas MW03 (Field duplicate)	0.2m	19/07/17	FILL / Gravelly SAND	MW01 (Field Dup)	ERM (2019)	< 0.5	< 0.5	< 0.5	< 0.5	-	< 0.5	-	-	-	-	-	-	-	-
TTC Midas MW03	3m	19/07/17	CLAY	MW01	ERM (2019)	< 0.5	< 0.5	< 0.5	< 0.5	-	< 0.5	-	-	-	-	-	-	-	-

Criteria adopted from the following guidelines:

NSW EPA, Waste Classification Guidelines Part 1: Classifying waste (2014)

NSW EPA, Addendum to the Waste Classification Guideline (2014) - Part 1: classifying waste (2016)

ANZECC (2000) *Australian and New Zealand Guidelines for Fresh and Marine Water Quality* , Volume 3, Table 9.2.16 Datasets used to derive suggested

Notes:

This table does not represent the full analytical results, please refer to the laboratory certificate(s) for full details

Results displayed in grey text recorded below the laboratory practical quantitation limit (PQL)

Cream shading indicates results with PQL above one or more assessment criteria

CT - contaminant threshold

PQL - laboratory practical quantitation limit

SCC - specific contaminant concentration

TCLP - toxicity characteristic leaching procedure

Field duplicate is below primary sample

Table C2: Summary of results of preliminary waste classification analysis

Sample ID	Depth	Sampled date	Soil description	Original Location ID	Original Report	PFAS				Asbestos		
						Perfluorooctanoic acid (PFOA)	Perfluorooctanoic acid (PFOA)	Sum of PFHxS and PFOS	Sum of PFHxS and PFOS	FA/AF	ACM >7mm	Asbestos
Units						mg/kg	mg/L	mg/kg	mg/L	g	g	detect
PQL						0.0001	0.00001	0.0001	0.00001			
General solid waste (CT1)						-	-	-	-	-	-	-
General solid waste (SCC1)						18	-	1.8	-	-	-	-
General solid waste (TCLP1)						-	0.5	-	0.05	-	-	-
Restricted solid waste (CT2)						-	-	-	-	-	-	-
Restricted solid waste (SCC2)						72	-	7.2	-	-	-	-
Restricted solid waste (TCLP2)						-	2	-	0.2	-	-	-
Special waste (asbestos)						-	-	-	-	0	0	0
Published Background Concentrations (ANZECC 2000)						<PQL	<PQL	<PQL	<PQL	0	0	0
Published Background Concentrations (NEPC 1999)						-	-	-	-	-	-	-
Within proposed basement excavation at the boundary of the deep soil zone												
BH101	0.15m - 0.2m	16/03/26	FILL / Sandy SILT	BH101	Current	0.0002	< 0.00001	0.0006	< 0.00001	-	-	ABSENT
BH101	0.3m - 0.5m	16/03/26	Silty CLAY	BH101	Current	-	-	-	-	-	-	-
BH102	0.5m - 0.65m	16/03/26	FILL / Sandy GRAVEL	BH102	Current	-	-	-	-	-	-	ABSENT
BH102	0.7m - 0.9m	16/03/26	Silty CLAY	BH102	Current	-	-	-	-	-	-	-
BH107	0.05m - 0.15m	13/03/26	FILL / Gravelly SAND	BH107	Current	-	-	-	-	-	-	ABSENT
BH107	0.4m - 0.5m	13/03/26	FILL / CLAY	BH107	Current	-	-	-	-	-	-	ABSENT
TTC BH17	0.13m - 0.23m	27/05/25	FILL / Silty CLAY	BH17	TTC (2025b)	-	-	-	-	-	-	ABSENT
TTC BH17	0.4m - 0.5m	27/05/25	Silty CLAY	BH17	TTC (2025b)	-	-	-	-	-	-	ABSENT
Within proposed basement excavation												
BH103	0.11m - 0.3m	16/03/26	FILL / Gravelly CLAY	BH103	Current	-	-	-	-	-	-	ABSENT
BH103	0.4m - 0.6m	16/03/26	FILL / Silty CLAY	BH103	Current	-	-	-	-	-	-	ABSENT
BH103	1.2m - 1.4m	16/03/26	Silty CLAY	BH103	Current	-	-	-	-	-	-	-
BH104	0.15m - 0.3m	16/03/26	FILL / Silty CLAY	BH104	Current	< 0.0001	< 0.00001	0.0003	< 0.00001	0	0	ABSENT
BH104	1.4m - 1.6m	16/03/26	FILL / Silty CLAY	BH104	Current	-	-	-	-	-	-	ABSENT
BD1/12032026	1.4m - 1.6m		FILL / Silty CLAY	BD1/12032026	Current	-	-	-	-	-	-	-
BH104	2m - 2.2m	16/03/26	Clayey SILT	BH104	Current	-	-	-	-	-	-	-
BH105	0.4m - 0.5m	13/03/26	FILL / Sandy GRAVEL	BH105	Current	< 0.0001	-	< 0.0001	-	-	-	ABSENT
BH105	0.9m - 1m	13/03/26	FILL / Sandy CLAY	BH105	Current	-	-	-	-	0	0	ABSENT
BH106	0.1m - 0.2m	13/03/26	FILL / Sandy GRAVEL	BH106	Current	< 0.0001	-	< 0.0001	-	0	0	ABSENT
BH106	0.4m - 0.5m	13/03/26	FILL / Sandy GRAVEL	BH106	Current	-	-	-	-	0	0	ABSENT
BH106	0.9m - 1m	13/03/26	FILL / Sandy GRAVEL	BH106	Current	-	-	-	-	0	0	ABSENT
BH106	1.4m - 1.6m	13/03/26	CLAY	BH106	Current	-	-	-	-	-	-	-
Neo BH1	0.2m - 0.3m	2025	FILL / SAND	BH1	Neo (2025)	-	-	-	-	-	-	-
Neo BH2	0.2m - 0.3m	2025	FILL / CLAY	BH2	Neo (2025)	-	-	-	-	-	-	-
Neo BH3	0.2m - 0.3m	2025	FILL / SAND	BH3	Neo (2025)	-	-	-	-	-	-	-
TTC MW1	0.17m - 0.27m	28/05/25	FILL / Silty CLAY	MW1	TTC (2025b)	-	-	-	-	-	-	PRESENT
TTC MW1	0.4m - 0.5m	28/05/25	FILL / SAND	MW1	TTC (2025b)	-	-	-	-	-	-	-
TTC MW1	1.9m - 2.1m	28/05/25	FILL / Clayey SAND	MW1	TTC (2025b)	-	-	-	-	-	-	-

Table C2: Summary of results of preliminary waste classification analysis

Sample ID	Depth	Sampled date	Soil description	Original Location ID	Original Report	PFAS				Asbestos		
						Perfluorooctanoic acid (PFOA)	Perfluorooctanoic acid (PFOA)	Sum of PFHxS and PFOS	Sum of PFHxS and PFOS	FA/AF	ACM >7mm	Asbestos
Units						mg/kg	mg/L	mg/kg	mg/L	g	g	detect
PQL						0.0001	0.00001	0.0001	0.00001			
General solid waste (CT1)						-	-	-	-	-	-	-
General solid waste (SCC1)						18	-	1.8	-	-	-	-
General solid waste (TCLP1)						-	0.5	-	0.05	-	-	-
Restricted solid waste (CT2)						-	-	-	-	-	-	-
Restricted solid waste (SCC2)						72	-	7.2	-	-	-	-
Restricted solid waste (TCLP2)						-	2	-	0.2	-	-	-
Special waste (asbestos)						-	-	-	-	0	0	0
Published Background Concentrations (ANZECC 2000)						<PQL	<PQL	<PQL	<PQL	0	0	0
Published Background Concentrations (NEPC 1999)						-	-	-	-	-	-	-
TTC MW1	3.9m - 4m	28/05/25	SILTSTONE	MW1	TTC (2025b)	-	-	-	-	-	-	-
TTC MW1	5.4m - 5.5m	28/05/25	SANDSTONE	MW1	TTC (2025b)	-	-	-	-	-	-	-
TTC MW2	0.14m - 0.24m	28/05/25	FILL / Silty Sandy CLAY	MW2	TTC (2025b)	-	-	-	-	-	-	ABSENT
TTC MW2	0.4m - 0.5m	28/05/25	FILL / Silty Clayey SAND	MW2	TTC (2025b)	-	-	-	-	-	-	-
TTC MW2	1.4m - 1.5m	28/05/25	SAND	MW2	TTC (2025b)	-	-	-	-	-	-	-
TTC MW2	1.9m - 2m	28/05/25	SAND	MW2	TTC (2025b)	-	-	-	-	-	-	-
TTC MW3	0.17m - 0.27m	28/05/25	FILL / Clayey SAND	MW3	TTC (2025b)	-	-	-	-	-	-	ABSENT
TTC MW3	0.9m - 1m	28/05/25	FILL / Clayey SAND	MW3	TTC (2025b)	-	-	-	-	-	-	-
TTC MW3	1.4m - 1.5m	28/05/25	SHALE (possibly Silty	MW3	TTC (2025b)	-	-	-	-	-	-	-
TTC MW4	0.17m - 0.27m	28/05/25	FILL / Silty Sandy CLAY	MW4	TTC (2025b)	-	-	-	-	-	-	ABSENT
TTC MW4	0.9m - 1m	28/05/25	FILL / SAND	MW4	TTC (2025b)	-	-	-	-	-	-	-
TTC MW4	1.4m - 1.5m	28/05/25	FILL / Sandy CLAY	MW4	TTC (2025b)	-	-	-	-	-	-	-
TTC BH5	0.2m - 0.6m	28/05/25	FILL / Silty Sandy GRAVEL	BH5	TTC (2025b)	-	-	-	-	-	-	ABSENT
TTC BH5	0.7m - 1m	28/05/25	FILL / SAND	BH5	TTC (2025b)	-	-	-	-	-	-	-
TTC BH6	0.2m - 0.4m	28/05/25	FILL / Silty Sandy CLAY	BH6	TTC (2025b)	-	-	-	-	-	-	-
TTC BH6	0.5m - 0.8m	28/05/25	Silty CLAY	BH6	TTC (2025b)	-	-	-	-	-	-	-
TTC BH7	0.17m - 0.5m	28/05/25	FILL / Silty Sandy CLAY	BH7	TTC (2025b)	-	-	-	-	-	-	ABSENT
TTC BH7	2m - 2.3m	28/05/25	SILTSTONE (possibly Silty CLAY)	BH7	TTC (2025b)	-	-	-	-	-	-	-
TTC BH8	0.13m - 0.23m	27/05/25	FILL / Silty Sandy	BH8	TTC (2025b)	-	-	-	-	-	-	ABSENT
TTC BH8	0.8m - 0.9m	27/05/25	FILL / Silty CLAY	BH8	TTC (2025b)	-	-	-	-	-	-	-
TTC BH9	0.15m - 0.3m	27/05/25	FILL / Silty Gravelly CLAY	BH9	TTC (2025b)	-	-	-	-	-	-	ABSENT
TTC BH10	0.13m - 0.23m	27/05/25	FILL / Silty Gravelly CLAY	BH10	TTC (2025b)	-	-	-	-	-	-	ABSENT
TTC BH10	0.6m - 0.8m	27/05/25	FILL / Silty CLAY	BH10	TTC (2025b)	-	-	-	-	-	-	ABSENT
TTC BH11	0.08m - 0.4m	27/05/25	FILL / Silty Gravelly CLAY	BH11	TTC (2025b)	-	-	-	-	-	-	ABSENT
TTC BH12	0.13m - 0.23m	27/05/25	FILL / Silty Sandy	BH12	TTC (2025b)	-	-	-	-	-	-	ABSENT
TTC BH12	0.4m - 0.5m	27/05/25	FILL / Silty Sandy	BH12	TTC (2025b)	-	-	-	-	-	-	ABSENT
TTC BH13	0.13m - 0.23m	27/05/25	FILL / Silty Sandy	BH13	TTC (2025b)	-	-	-	-	-	-	ABSENT
TTC BH14	0.13m - 0.2m	27/05/25	FILL / Silty CLAY	BH14	TTC (2025b)	-	-	-	-	-	-	ABSENT

Table C2: Summary of results of preliminary waste classification analysis

Sample ID	Depth	Sampled date	Soil description	Original Location ID	Original Report	PFAS				Asbestos		
						Perfluorooctanoic acid (PFOA)	Perfluorooctanoic acid (PFOA)	Sum of PFHxS and PFOS	Sum of PFHxS and PFOS	FA/AF	ACM >7mm	Asbestos
Units						mg/kg	mg/L	mg/kg	mg/L	g	g	detect
PQL						0.0001	0.00001	0.0001	0.00001			
General solid waste (CT1)						-	-	-	-	-	-	-
General solid waste (SCC1)						18	-	1.8	-	-	-	-
General solid waste (TCLP1)						-	0.5	-	0.05	-	-	-
Restricted solid waste (CT2)						-	-	-	-	-	-	-
Restricted solid waste (SCC2)						72	-	7.2	-	-	-	-
Restricted solid waste (TCLP2)						-	2	-	0.2	-	-	-
Special waste (asbestos)						-	-	-	-	0	0	0
Published Background Concentrations (ANZECC 2000)						<PQL	<PQL	<PQL	<PQL	0	0	0
Published Background Concentrations (NEPC 1999)						-	-	-	-	-	-	-
TTC BH14	0.6m - 0.8m	27/05/25	Silty CLAY	BH14	TTC (2025b)	-	-	-	-	-	-	ABSENT
TTC BH15	0.4m - 0.5m	27/05/25	Sandy CLAY	BH15	TTC (2025b)	-	-	-	-	-	-	ABSENT
TTC BH16	0.23m - 0.3m	27/05/25	Silty CLAY	BH16	TTC (2025b)	-	-	-	-	-	-	ABSENT
TTC BH16	0.4m - 0.6m	27/05/25	Silty CLAY	BH16	TTC (2025b)	-	-	-	-	-	-	-
TTC Midas MW01	0.12m	19/07/17	FILL / Gravelly SAND	MW03	ERM (2019)	-	-	-	-	-	-	-
TTC Midas MW01	1m	19/07/17	CLAY	MW03	ERM (2019)	-	-	-	-	-	-	-
TTC Midas MW02	0.2m	19/07/17	FILL / Gravelly SAND	MW02	ERM (2019)	-	-	-	-	-	-	-
TTC Midas MW02	0.5m	19/07/17	CLAY	MW02	ERM (2019)	-	-	-	-	-	-	-
TTC Midas MW02 (Field duplicate)	0.5m	19/07/17	CLAY	MW02 (Field Dup)	ERM (2019)	-	-	-	-	-	-	-
TTC Midas MW03	0.2m	19/07/17	FILL / Gravelly SAND	MW01	ERM (2019)	-	-	-	-	-	-	-
TTC Midas MW03 (Field duplicate)	0.2m	19/07/17	FILL / Gravelly SAND	MW01 (Field Dup)	ERM (2019)	-	-	-	-	-	-	-
TTC Midas MW03	3m	19/07/17	CLAY	MW01	ERM (2019)	-	-	-	-	-	-	-

Criteria adopted from the following guidelines:

NSW EPA, Waste Classification Guidelines Part 1: Classifying waste (2014)

NSW EPA, Addendum to the Waste Classification Guideline (2014) - Part 1: classifying waste (2016)

ANZECC (2000) *Australian and New Zealand Guidelines for Fresh and Marine Water Quality* , Volume 3, Table 9.2.16 Datasets used to derive suggested

Notes:

This table does not represent the full analytical results, please refer to the laboratory certificate(s) for full details

Results displayed in grey text recorded below the laboratory practical quantitation limit (PQL)

Cream shading indicates results with PQL above one or more assessment criteria

CT - contaminant threshold

PQL - laboratory practical quantitation limit

SCC - specific contaminant concentration

TCLP - toxicity characteristic leaching procedure

Field duplicate is below primary sample

Table : Summary of laboratory results - groundwater

Sample ID	Units	Total or filtered	PQL	DGV, Freshwater - 95% / 99% LOP	DGV, Marine Water - 95% / 99% LOP	HSL-D Screen Clay 2m - 4m Solubility Limit	NHMRC (2008) Recreation	BH105	BH106	BH107	TTC Midas MW1	BD1/20260325	TTC Midas MW2
Parent sample								405430-1	405430-2			TTC Midas MW1	
Sampled date								25/03/26	25/03/26	25/03/26	25/03/26	25/03/26	25/03/26
Gases													
Methane	µg/L	T	5	-	-	-	-	-	-	-	75	-	2,900
Physiochemical parameters													
pH 1:5 soil:water	pH	T		-	-	-	6.5 - 8.5 ¹⁴	5.6	6.4	6	-	-	-
Electrical Conductivity (EC)	µS/cm	T	2	-	-	-	-	320	450	380	-	-	-
Total Dissolved Solids	mg/L	T	5	-	-	-	-	200	280	220	-	-	-
Total Suspended Solids (Lab)	mg/L	T	5	-	-	-	-	10	48	13	-	-	-
Anions and cations													
Hardness	mg/L	F	3	-	-	-	-	36	160	57	-	-	-
Calcium	mg/L	F	0.5	-	-	-	-	5.8	56	15	-	-	-
Potassium	mg/L	F	0.5	-	-	-	-	2	5.8	1	-	-	-
Sodium	mg/L	F	0.5	-	-	-	-	38	34	44	-	-	-
Magnesium	mg/L	F	0.5	-	-	-	-	5.1	4	5	-	-	-
Alkalinity (Carbonate as CaCO3)	mg/L	T	5	-	-	-	-	< 5	< 5	< 5	-	-	-
Chloride	mg/L	T	1	-	-	-	-	73	34	80	-	-	-
Alkalinity (total as CaCO3)	mg/L	T	5	-	-	-	-	15	160	30	-	-	-
Alkalinity (Hydroxide as CaCO3)	mg/L	T	5	-	-	-	-	< 5	< 5	< 5	-	-	-
Alkalinity (Bicarbonate as CaCO3)	mg/L	T	5	-	-	-	-	15	160	30	-	-	-
Sulphate	mg/L	T	1	-	-	-	-	20	30	26	61	-	23
Ionic Balance	%	T		-	-	-	-	-7	-1	-4	-	-	-
Metals													
Arsenic	µg/L	F	1	13	2.3 ^{22,15}	-	100	<1	2	1	<1	<1	12
Cadmium	µg/L	F	0.1	0.2	0.7	-	20	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Chromium (Total)	µg/L	F	1	1 ²⁴	4.4	-	500	<1	<1	<1	<1	<1	<1
Copper	µg/L	F	1	1.4	0.6	-	20,000	2	2	2	<1	<1	<1
Ferrous Iron	mg/L	T	0.05	0.28 ²¹	0.54 ²¹	-	-	-	-	-	0.58	-	6.9
Lead	µg/L	F	1	3.4	4.4	-	50	<1	<1	<1	<1	<1	13
Mercury	µg/L	F	0.05	0.06	0.1	-	10	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Nickel	µg/L	F	1	11	7	-	200	10	4	6	<1	<1	<1
Zinc	µg/L	F	1	8	8	-	-	46	24	25	2	2	5
TRH (NEPM 2013)													
TRH C6-C10	µg/L	T	10	-	-	-	-	11	770	<10	65	60	46,000
TRH >C10-C16	µg/L	T	50	-	-	-	-	100	1,000	< 50	< 50	< 50	4,600
TRH F1 (C6-C10 minus BTEX)	µg/L	T	10	-	-	PQL PQL NL 9000	-	11	320	< 10	65	60	21,000
TRH F2 (>C10-C16 minus naphthalene)	µg/L	T	50	-	-	PQL NL 3000	-	100	1,000	< 50	< 50	< 50	4,000
TRH F3 (>C16-C34)	µg/L	T	100	-	-	PQL	-	150	280	<100	<100	<100	440
TRH F4 (>C34-C40)	µg/L	T	100	-	-	PQL	-	<100	<100	<100	<100	<100	<100
BTEXN (all)													
Benzene	µg/L	T	1	950	500	PQL 30000 59000	10	<1	410	<1	<1	<1	5,800
Toluene	µg/L	T	1	180	180	PQL NL 61000	8,000	<1	3	2	<1	<1	4,100
Ethylbenzene	µg/L	T	1	80	80	PQL NL 3900	3,000	<1	12	<1	<1	<1	2,500
Xylene (o)	µg/L	T	1	350	-	-	-	<1	6	<1	<1	<1	2,400
Xylene (m & p)	µg/L	T	2	75 ²³	75 ²³	-	-	< 2	18	< 2	< 2	< 2	10,000
Xylene Total	µg/L	T	3	-	-	PQL NL 21000	-	<3	24	<3	<3	<3	12,400
Naphthalene (VOC)	µg/L	T	1	16	50	PQL NL 21000	-	<1	32	<1	<1	<1	580
PAH													
Acenaphthene	µg/L	T	0.1	-	-	-	-	< 0.1	0.3	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthylene	µg/L	T	0.1	-	-	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Anthracene	µg/L	T	0.1	0.01	0.01	-	-	< 0.1	0.3	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(a)anthracene	µg/L	T	0.1	-	-	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(a)pyrene	µg/L	T	0.1	0.1	0.1	-	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(b+j+k)fluoranthene	µg/L	T	0.2	-	-	-	-	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Benzo(g,h,i)perylene	µg/L	T	0.1	-	-	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Chrysene	µg/L	T	0.1	-	-	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Dibenz(a,h)anthracene	µg/L	T	0.1	-	-	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Fluoranthene	µg/L	T	0.1	1	1	-	-	< 0.1	0.8	< 0.1	< 0.1	< 0.1	< 0.1
Fluorene	µg/L	T	0.1	-	-	-	-	< 0.1	0.7	< 0.1	< 0.1	< 0.1	< 0.1
Indeno(1,2,3-c,d)pyrene	µg/L	T	0.1	-	-	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Naphthalene	µg/L	T	0.1	16	50	PQL NL 170	-	0.2	34	< 0.1	< 0.1	< 0.1	400
Phenanthrene	µg/L	T	0.1	0.6	0.6	-	-	< 0.1	1.3	< 0.1	< 0.1	< 0.1	< 0.1
Pyrene	µg/L	T	0.1	-	-	-	-	< 0.1	0.7	< 0.1	< 0.1	< 0.1	< 0.1
Total PAH (sum of analysed)	µg/L	T	0.1	-	-	-	-	0.17	38	< 0.1	< 0.1	< 0.1	400
Phenols													
Phenolics (Total)(as phenol)	µg/L	T	50	320	11 ²⁰	-	100 ¹³	< 50	< 50	< 50	< 50	-	400
PCB													
Aroclor 1016	µg/L	T	0.01	-	-	-	-	< 0.01	< 0.01	< 0.01	-	-	-
Aroclor 1221	µg/L	T	0.01	-	-	-	-	< 0.01	< 0.01	< 0.01	-	-	-
Aroclor 1232	µg/L	T	0.01	-	-	-	-	< 0.01	< 0.01	< 0.01	-	-	-
Aroclor 1242	µg/L	T	0.01	0.3	-	-	-	< 0.01	< 0.01	< 0.01	-	-	-
Aroclor 1248	µg/L	T	0.01	-	-	-	-	< 0.01	< 0.01	< 0.01	-	-	-
Aroclor 1254	µg/L	T	0.01	0.01	-	-	-	< 0.01	< 0.01	< 0.01	-	-	-
Aroclor 1260	µg/L	T	0.01	-	-	-	-	< 0.01	< 0.01	< 0.01	-	-	-
OCP													
a-BHC	µg/L	T	0.001	-	-	-	-	< 0.001	< 0.001	< 0.001	-	-	< 0.2
Aldrin	µg/L	T	0.001	0.001 ¹⁹	0.003 ¹⁹	-	3 ⁶	< 0.001	< 0.001	< 0.001	-	-	< 0.2
b-BHC	µg/L	T	0.001	-	-	-	-	< 0.001	< 0.001	< 0.001	-	-	< 0.2
Chlordane (cis)	µg/L	T	0.001	-	-	-	20 ⁸	< 0.001	< 0.001	< 0.001	-	-	< 0.2
Chlordane (trans)	µg/L	T	0.001	-	-	-	20 ⁷	< 0.001	< 0.001	< 0.001	-	-	< 0.2
d-BHC	µg/L	T	0.001	-	-	-	-	< 0.001	< 0.001	< 0.001	-	-	< 0.2
DDD	µg/L	T	0.001	-	-	-	-	< 0.001	< 0.001	< 0.001	-	-	< 0.2
DDT	µg/L	T	0.001	0.006	0.0004 ¹⁹	-	90	< 0.001	< 0.001	< 0.001	-	-	< 0.2
Dieldrin	µg/L	T	0.001	0.01 ¹⁹	-	-	3 ¹⁰	< 0.001	< 0.001	< 0.001	-	-	< 0.2

Table : Summary of laboratory results - groundwater

Sample ID	Units	Total or filtered	PQL	DGV, Freshwater - 95% / 99% LOP	DGV, Marine Water - 95% / 99% LOP	HSL-D Screen Clay 2m - 4m Solubility Limit	NHMRC (2008) Recreation	BH105	BH106	BH107	TTC Midas MW1	BD1/20260325	TTC Midas MW2
Parent sample								405430-1	405430-2			TTC Midas MW1	
Sampled date								25/03/26	25/03/26	25/03/26	25/03/26	25/03/26	25/03/26
Endosulfan I	µg/L	T	0.002	-	-	-	200 ⁹	< 0.002	< 0.002	< 0.002	-	-	< 0.2
Endosulfan II	µg/L	T	0.002	-	-	-	200 ¹¹	< 0.002	< 0.002	< 0.002	-	-	< 0.2
Endosulfan sulphate	µg/L	T	0.001	-	-	-	-	< 0.001	< 0.001	< 0.001	-	-	< 0.2
Endrin	µg/L	T	0.001	0.01	0.004	-	-	< 0.001	< 0.001	< 0.001	-	-	< 0.2
Endrin aldehyde	µg/L	T	0.2	-	-	-	-	-	-	-	-	-	< 0.2
g-BHC (Lindane)	µg/L	T	0.001	0.2	0.007 ¹⁹	-	100	< 0.001	< 0.001	< 0.001	-	-	< 0.2
Heptachlor	µg/L	T	0.001	0.01	0.0004 ¹⁹	-	3	< 0.001	< 0.001	< 0.001	-	-	< 0.2
Heptachlor epoxide	µg/L	T	0.001	-	-	-	-	< 0.001	< 0.001	< 0.001	-	-	< 0.2
Hexachlorobenzene (HCB)	µg/L	T	0.001	0.05	0.05	-	-	< 0.001	< 0.001	< 0.001	-	-	< 0.2
Methoxychlor	µg/L	T	0.001	0.005 ¹⁹	0.004 ¹⁹	-	3,000 ¹²	< 0.001	< 0.001	< 0.001	-	-	< 0.2
Mirex	µg/L	T	0.2	0.04 ¹⁹	-	-	-	-	-	-	-	-	< 0.2
p,p'-DDE (4,4-DDE)	µg/L	T	0.001	-	-	-	-	< 0.001	< 0.001	< 0.001	-	-	< 0.2
OPP													
Azinophos methyl (Guthion)	µg/L	T	0.02	0.01	-	-	300	< 0.02	< 0.02	< 0.02	-	-	-
Bromophos-ethyl	µg/L	T	0.05	-	-	-	100	< 0.05	< 0.05	< 0.05	-	-	-
Chlorpyrifos	µg/L	T	0.009	0.01	0.009	-	100	< 0.009	< 0.009	< 0.009	-	-	-
Chlorpyrifos-methyl	µg/L	T	0.05	-	-	-	-	< 0.05	< 0.05	< 0.05	-	-	-
Coumaphos	µg/L	T	0.05	-	-	-	-	< 0.05	< 0.05	< 0.05	-	-	-
Diazinon	µg/L	T	0.01	0.01	-	-	40	< 0.01	< 0.01	< 0.01	-	-	-
Dichlorvos	µg/L	T	0.05	-	-	-	50	< 0.05	< 0.05	< 0.05	-	-	-
Dimethoate	µg/L	T	0.1	0.15	-	-	70	< 0.1	< 0.1	< 0.1	-	-	-
Disulfoton	µg/L	T	0.05	-	-	-	40	< 0.05	< 0.05	< 0.05	-	-	-
Ethion	µg/L	T	0.05	-	-	-	40	< 0.05	< 0.05	< 0.05	-	-	-
Ronnel	µg/L	T	0.05	-	-	-	-	< 0.05	< 0.05	< 0.05	-	-	-
Fenamiphos	µg/L	T	0.05	-	-	-	5	< 0.05	< 0.05	< 0.05	-	-	-
Fenitrothion	µg/L	T	0.05	0.2	0.001 ¹⁹	-	70	< 0.05	< 0.05	< 0.05	-	-	-
Fenthion	µg/L	T	0.05	-	-	-	70	< 0.05	< 0.05	< 0.05	-	-	-
Malathion	µg/L	T	0.05	0.05	-	-	700	< 0.05	< 0.05	< 0.05	-	-	-
Methyl parathion	µg/L	T	0.05	-	-	-	7	< 0.05	< 0.05	< 0.05	-	-	-
Methidathion	µg/L	T	0.05	-	-	-	60	< 0.05	< 0.05	< 0.05	-	-	-
Mevinphos (Phosdrin)	µg/L	T	0.05	-	-	-	50	< 0.05	< 0.05	< 0.05	-	-	-
Parathion	µg/L	T	0.004	0.004	-	-	200	< 0.004	< 0.004	< 0.004	-	-	-
Phorate	µg/L	T	0.05	-	-	-	-	< 0.05	< 0.05	< 0.05	-	-	-
Phosalone	µg/L	T	0.05	-	-	-	-	< 0.05	< 0.05	< 0.05	-	-	-
Organic													
Carbon	mg/L	T	1	-	-	-	-	4	6	6	-	-	-
Nutrients													
Ammonia (as N)	µg/L	F	5	720	910	-	-	190	20	< 5	-	-	-
Total Kjeldahl Nitrogen (TKN)	mg/L	T	0.1	-	-	-	-	0.1	0.2	0.4	-	-	-
Nitrate (as N)	mg/L	F	0.005	1.1	-	-	113	0.008	0.01	0.42	0.13	-	< 0.005
Nitrite (as N)	µg/L	F	5	-	-	-	9,000	< 5	< 5	1,200	-	-	-
NOx (as N)	mg/L	T	0.005	-	-	-	-	0.009	0.01	1.6	-	-	-
Total Organic Nitrogen (TON, as N)	mg/L	T	0.2	-	-	-	-	< 0.2	< 0.2	0.4	-	-	-
Nitrogen (Total)	mg/L	T	0.1	-	-	-	-	0.1	0.2	2	-	-	-
Total Phosphorus (Organic Phosphate)	mg/L	T	0.05	-	-	-	-	< 0.05	< 0.05	< 0.05	-	-	-
Reactive Phosphorus as P (Orthophosphate as P)	mg/L	F	0.005	-	-	-	-	< 0.005	< 0.005	< 0.005	-	-	-
Microbiological													
E. Coli	CFU/100 mL	T	1	-	-	-	-	< 1,000	< 1,000	< 100	-	-	-
Enterococci	CFU/100 mL	T	1	-	-	-	-	< 10	< 10	< 10	-	-	-
Other inorganics													
Chloride	mg/L	T	1	-	-	-	-	73	34	80	-	-	-
VOC													
Tetrachloroethene	µg/L	T	1	70	70	-	500	-	-	-	< 1	-	< 1
Trichloroethene	µg/L	T	1	330	330	-	-	-	-	-	< 1	-	< 1
cis-1,2-dichloroethene	µg/L	T	1	-	-	-	600 ¹	-	-	-	< 1	-	< 1
1,2-Dichloroethene [trans]	µg/L	T	1	-	-	-	-	-	-	-	< 1	-	< 1
Vinyl chloride	µg/L	T	10	100	100	-	3	-	-	-	< 10	-	< 10
1,1-dichloroethene	µg/L	T	1	700	700	-	300	-	-	-	< 1	-	< 1
Carbon tetrachloride	µg/L	T	1	240	240	-	30	-	-	-	< 1	-	< 1
Chloroform	µg/L	T	1	370	370	-	2,500 ²	-	-	-	< 1	-	< 1
Chloromethane	µg/L	T	10	-	-	-	-	-	-	-	< 10	-	< 10
1,1,2,2-tetrachloroethane	µg/L	T	1	400	400	-	-	-	-	-	< 1	-	< 1
1,1,1-trichloroethane	µg/L	T	1	270	270	-	-	-	-	-	< 1	-	< 1
1,1,2-trichloroethane	µg/L	T	1	6,500	1,900	-	-	-	-	-	< 1	-	< 1
1,1-dichloroethane	µg/L	T	1	-	-	-	-	-	-	-	< 1	-	< 1
1,2-dichloroethane	µg/L	T	1	1,900	1,900	-	30	-	-	-	< 1	-	2
Chloroethane	µg/L	T	10	-	-	-	-	-	-	-	< 10	-	< 10
cis-1,3-dichloropropene	µg/L	T	1	-	-	-	-	-	-	-	< 1	-	< 1
trans-1,3-dichloropropene	µg/L	T	1	-	-	-	-	-	-	-	< 1	-	< 1
Hexachlorobutadiene	µg/L	T	1	-	-	-	7	-	-	-	< 1	-	< 1
1,2-dichloropropane	µg/L	T	1	900	900	-	-	-	-	-	< 1	-	< 1
Chlorobenzene	µg/L	T	1	55	55	-	3,000	-	-	-	< 1	-	< 1
1,2,4-trichlorobenzene	µg/L	T	1	85	20	-	-	-	-	-	< 1	-	< 1
1,4-dichlorobenzene	µg/L	T	1	60	-	-	400	-	-	-	< 1	-	< 1
1,2-dichlorobenzene	µg/L	T	1	160	-	-	15,000	-	-	-	< 1	-	< 1
1,3-dichlorobenzene	µg/L	T	1	260	-	-	-	-	-	-	< 1	-	< 1
Dichlorodifluoromethane	µg/L	T	10	-	-	-	-	-	-	-	< 10	-	< 10
Trichlorofluoromethane	µg/L	T	10	-	-	-	-	-	-	-	< 10	-	< 10
Bromodichloromethane	µg/L	T	1	-	-	-	2,500 ³	-	-	-	< 1	-	< 1
Chlorodibromomethane	µg/L	T	1	-	-	-	2,500 ⁴	-	-	-	< 1	-	< 1
Bromoform	µg/L	T	1	-	-	-	2,500 ⁵	-	-	-	< 1	-	< 1
Bromomethane	µg/L	T	10	-	-	-	10	-	-	-	< 10	-	< 10
1,2-dibromoethane	µg/L	T	1	-	-	-	10	-	-	-	< 1	-	< 1

Table : Summary of laboratory results - groundwater

Sample ID	Units	Total or filtered	PQL	DGV, Freshwater - 95% / 99% LOP	DGV, Marine Water - 95% / 99% LOP	HSL-D Screen Clay 2m - 4m Solubility Limit	NHMRC (2008) Recreation	BH105	BH106	BH107	TTC Midas MW1	BD1/20260325	TTC Midas MW2
Parent sample								405430-1	405430-2			TTC Midas MW1	
Sampled date								25/03/26	25/03/26	25/03/26	25/03/26	25/03/26	25/03/26
1,3,5-trimethylbenzene	µg/L	T	1	-	-	-	-	-	-	-	<1	-	520
1,2,4-trimethylbenzene	µg/L	T	1	-	-	-	-	-	-	-	<1	-	2,300
Styrene	µg/L	T	1	-	-	-	300	-	-	-	<1	-	<1
Cyclohexane	µg/L	T	1	-	-	-	-	-	-	-	<1	-	370
1,1,1,2-tetrachloroethane	µg/L	T	1	-	-	-	-	-	-	-	<1	-	<1
1,1-dichloropropene	µg/L	T	1	-	-	-	-	-	-	-	<1	-	<1
1,2-dibromo-3-chloropropane	µg/L	T	1	-	-	-	-	-	-	-	<1	-	<1
1,2,3-trichlorobenzene	µg/L	T	1	3	-	-	-	-	-	-	<1	-	<1
1,2,3-trichloropropane	µg/L	T	1	-	-	-	-	-	-	-	<1	-	<1
1,3-dichloropropane	µg/L	T	1	1,100	1,100	-	-	-	-	-	<1	-	<1
2-chlorotoluene	µg/L	T	1	-	-	-	-	-	-	-	<1	-	<1
2,2-dichloropropane	µg/L	T	1	-	-	-	-	-	-	-	<1	-	<1
4-chlorotoluene	µg/L	T	1	-	-	-	-	-	-	-	<1	-	<1
Bromobenzene	µg/L	T	1	-	-	-	-	-	-	-	<1	-	<1
Bromochloromethane	µg/L	T	1	-	-	-	-	-	-	-	<1	-	<1
Dibromomethane	µg/L	T	1	-	-	-	-	-	-	-	<1	-	<1
Isopropylbenzene	µg/L	T	1	30	30	-	-	-	-	-	<1	-	100
n-butylbenzene	µg/L	T	1	-	-	-	-	-	-	-	<1	-	17
n-propylbenzene	µg/L	T	1	-	-	-	-	-	-	-	<1	-	250
p-isopropyltoluene	µg/L	T	1	-	-	-	-	-	-	-	<1	-	8
sec-butylbenzene	µg/L	T	1	-	-	-	-	-	-	-	<1	-	<1
tert-butylbenzene	µg/L	T	1	-	-	-	-	-	-	-	<1	-	<1
Additional PhysChem													
Calcium	mg/L	F	0.5	-	-	-	-	5.8	56	15	-	-	-
Potassium	mg/L	F	0.5	-	-	-	-	2	5.8	1	-	-	-
Magnesium	mg/L	F	0.5	-	-	-	-	5.1	4	5	-	-	-
Sodium	mg/L	F	0.5	-	-	-	-	38	34	44	-	-	-
Other													
Thermotolerant Coliforms	CFU/100 mL	T	1	-	-	-	-	<1,000	14,000	100	-	-	-

Criteria adopted from the following guidelines:

NHMRC Guidelines for Managing Risks In Recreational Water (2008)

ANZG, Australian and New Zealand Guidelines for Fresh and Marine Water Quality (2018). DGV for 95% LOP or 99% LOP as recommended by ANZG (2018)

Notes:

This table does not represent the full analytical results, please refer to the laboratory certificate(s) for full details

Results displayed in grey text were recorded below the laboratory practical quantitation limit (PQL)

Cream shading indicates results with PQL above one or more assessment criteria

DGV – default guideline value

HSL – health screening level

LOP – level of protection of species

PQL – practical quantitation limit

Concentration exceeds solubility limit

Guideline Changes:

⁶Guideline for Aldrin + Dieldrin

⁷Guideline for Chlordane adopted

⁸Guideline for Chlordane adopted

⁹Guideline for Endosulfan adopted

¹⁰Guideline for Aldrin + Dieldrin

¹¹Guideline for Endosulfan adopted

¹³Guidelines for pentachlorophenol used as an initial screen

¹⁴Aesthetic OPQL| NLy

¹⁵High reliability freshwater guideline adopted in lieu of low reliability interim marine guidelines

¹⁶Freshwater criteria adopted in absence of marine criteria.

¹⁷Freshwater criteria adopted in absence of marine criteria.

¹⁸Freshwater criteria adopted in absence of marine criteria

Guideline Notes:

¹⁹Unknown LOP

²⁰Adopted Pentachlorophenol criteria (conservative)

²¹Criteria for total iron used as a screen

²²Low reliability (unknown LOP) arsenic (III) trigger value adopted for use as an indicative interim working level

²³Criteria for xylene (m) used as a conservative screen for total xylenes

²⁴DGV for chromium (VI) adopted as a conservative screen for total chromium. DGV for chromium (III) is 6.7 ug/L

Table : Summary of laboratory results - groundwater

Sample ID	Units	Total or filtered	PQL	DGV, Freshwater - 95% / 99% LOP	DGV, Marine Water - 95% / 99% LOP	HSL-D Screen Clay 2m - 4m Solubility Limit	NHMRC (2008) Recreation	TTC Midas MW3	TTC MW1	TTC MW1 (Field Dup)	TTC MW2	TTC MW3	TTC MW4
Parent sample										TTC MW1			
Sampled date								25/03/26	25/03/26	25/03/26	25/03/26	25/03/26	25/03/26
Gases													
Methane	µg/L	T	5	-	-	-	-	1,800	8,100	8,000	-	-	-
Physiochemical parameters													
pH 1:5 soil:water	pH	T		-	-	-	6.5 - 8.5 ¹⁴	-	-	-	-	-	-
Electrical Conductivity (EC)	µS/cm	T	2	-	-	-	-	-	-	-	-	-	-
Total Dissolved Solids	mg/L	T	5	-	-	-	-	-	-	-	-	-	-
Total Suspended Solids (Lab)	mg/L	T	5	-	-	-	-	-	-	-	-	-	-
Anions and cations													
Hardness	mg/L	F	3	-	-	-	-	-	-	-	-	-	-
Calcium	mg/L	F	0.5	-	-	-	-	-	-	-	-	-	-
Potassium	mg/L	F	0.5	-	-	-	-	-	-	-	-	-	-
Sodium	mg/L	F	0.5	-	-	-	-	-	-	-	-	-	-
Magnesium	mg/L	F	0.5	-	-	-	-	-	-	-	-	-	-
Alkalinity (Carbonate as CaCO3)	mg/L	T	5	-	-	-	-	-	-	-	-	-	-
Chloride	mg/L	T	1	-	-	-	-	-	-	-	-	-	-
Alkalinity (total as CaCO3)	mg/L	T	5	-	-	-	-	-	-	-	-	-	-
Alkalinity (Hydroxide as CaCO3)	mg/L	T	5	-	-	-	-	-	-	-	-	-	-
Alkalinity (Bicarbonate as CaCO3)	mg/L	T	5	-	-	-	-	-	-	-	-	-	-
Sulphate	mg/L	T	1	-	-	-	-	27	2	-	-	-	-
Ionic Balance	%	T		-	-	-	-	-	-	-	-	-	-
Metals													
Arsenic	µg/L	F	1	13	2.3 ^{22,15}	-	100	3	6	-	<1	<1	<1
Cadmium	µg/L	F	0.1	0.2	0.7	-	20	< 0.1	< 0.1	-	< 0.1	0.2	0.2
Chromium (Total)	µg/L	F	1	1 ²⁴	4.4	-	500	<1	<1	-	2	<1	<1
Copper	µg/L	F	1	1.4	0.6	-	20,000	<1	<1	-	<1	<1	4
Ferrous Iron	mg/L	T	0.05	0.28 ²¹	0.54 ²¹	-	-	11	24	-	-	-	-
Lead	µg/L	F	1	3.4	4.4	-	50	<1	<1	-	<1	<1	<1
Mercury	µg/L	F	0.05	0.06	0.1	-	10	< 0.05	< 0.05	-	< 0.05	< 0.05	< 0.05
Nickel	µg/L	F	1	11	7	-	200	<1	<1	-	<1	<1	<1
Zinc	µg/L	F	1	8	8	-	-	3	2	-	14	5	8
TRH (NEPM 2013)													
TRH C6-C10	µg/L	T	10	-	-	-	-	470	58	68	<10	<10	<10
TRH >C10-C16	µg/L	T	50	-	-	-	-	1,100	610	610	< 50	< 50	< 50
TRH F1 (C6-C10 minus BTEX)	µg/L	T	10	-	-	PQL PQL NL 9000	-	340	58	-	<10	<10	<10
TRH F2 (>C10-C16 minus naphthalene)	µg/L	T	50	-	-	PQL NL 3000	-	1,000	610	-	< 50	< 50	< 50
TRH F3 (>C16-C34)	µg/L	T	100	-	-	PQL	-	340	280	270	<100	<100	<100
TRH F4 (>C34-C40)	µg/L	T	100	-	-	PQL	-	<100	<100	<100	<100	<100	<100
BTEXN (all)													
Benzene	µg/L	T	1	950	500	PQL 30000 59000	10	26	<1	<1	<1	<1	<1
Toluene	µg/L	T	1	180	180	PQL NL 61000	8,000	<1	<1	<1	<1	<1	<1
Ethylbenzene	µg/L	T	1	80	80	PQL NL 3900	3,000	70	<1	<1	<1	<1	<1
Xylene (o)	µg/L	T	1	350	-	-	-	7	<1	<1	<1	<1	<1
Xylene (m & p)	µg/L	T	2	75 ²³	75 ²³	-	-	19	<2	<2	<2	<2	<2
Xylene Total	µg/L	T	3	-	-	PQL NL 21000	-	26	<3	<3	<3	<3	<3
Naphthalene (VOC)	µg/L	T	1	16	50	PQL NL 21000	-	60	<1	<1	<1	<1	<1
PAH													
Acenaphthene	µg/L	T	0.1	-	-	-	-	0.5	19	20	< 0.1	< 0.1	< 0.1
Acenaphthylene	µg/L	T	0.1	-	-	-	-	0.2	0.1	< 0.1	< 0.1	< 0.1	< 0.1
Anthracene	µg/L	T	0.1	0.01	0.01	-	-	< 0.1	1.3	1.3	< 0.1	< 0.1	< 0.1
Benzo(a)anthracene	µg/L	T	0.1	-	-	-	-	< 0.1	0.1	0.1	< 0.1	< 0.1	< 0.1
Benzo(a)pyrene	µg/L	T	0.1	0.1	0.1	-	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(b+j+k)fluoranthene	µg/L	T	0.2	-	-	-	-	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Benzo(g,h,i)perylene	µg/L	T	0.1	-	-	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Chrysene	µg/L	T	0.1	-	-	-	-	< 0.1	0.1	0.1	< 0.1	< 0.1	< 0.1
Dibenz(a,h)anthracene	µg/L	T	0.1	-	-	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Fluoranthene	µg/L	T	0.1	1	1	-	-	< 0.1	5.7	5.9	< 0.1	< 0.1	< 0.1
Fluorene	µg/L	T	0.1	-	-	-	-	0.7	12	12	< 0.1	< 0.1	< 0.1
Indeno(1,2,3-c,d)pyrene	µg/L	T	0.1	-	-	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Naphthalene	µg/L	T	0.1	16	50	PQL NL 170	-	26	1	1	< 0.1	< 0.1	< 0.1
Phenanthrene	µg/L	T	0.1	0.6	0.6	-	-	0.7	17	18	< 0.1	< 0.1	< 0.1
Pyrene	µg/L	T	0.1	-	-	-	-	< 0.1	3.4	3.6	< 0.1	< 0.1	< 0.1
Total PAH (sum of analysed)	µg/L	T	0.1	-	-	-	-	28	60	-	< 0.1	< 0.1	< 0.1
Phenols													
Phenolics (Total)(as phenol)	µg/L	T	50	320	11 ²⁰	-	100 ¹³	< 50	< 50	-	< 50	< 50	< 50
PCB													
Aroclor 1016	µg/L	T	0.01	-	-	-	-	-	-	-	-	-	-
Aroclor 1221	µg/L	T	0.01	-	-	-	-	-	-	-	-	-	-
Aroclor 1232	µg/L	T	0.01	-	-	-	-	-	-	-	-	-	-
Aroclor 1242	µg/L	T	0.01	0.3	-	-	-	-	-	-	-	-	-
Aroclor 1248	µg/L	T	0.01	-	-	-	-	-	-	-	-	-	-
Aroclor 1254	µg/L	T	0.01	0.01	-	-	-	-	-	-	-	-	-
Aroclor 1260	µg/L	T	0.01	-	-	-	-	-	-	-	-	-	-
OCP													
a-BHC	µg/L	T	0.001	-	-	-	-	-	< 0.2	< 0.2	-	-	-
Aldrin	µg/L	T	0.001	0.001 ¹⁹	0.003 ¹⁹	-	3 ⁶	-	< 0.2	< 0.2	-	-	-
b-BHC	µg/L	T	0.001	-	-	-	-	-	< 0.2	< 0.2	-	-	-
Chlordane (cis)	µg/L	T	0.001	-	-	-	20 ⁸	-	< 0.2	< 0.2	-	-	-
Chlordane (trans)	µg/L	T	0.001	-	-	-	20 ⁷	-	< 0.2	< 0.2	-	-	-
d-BHC	µg/L	T	0.001	-	-	-	-	-	< 0.2	< 0.2	-	-	-
DDD	µg/L	T	0.001	-	-	-	-	-	< 0.2	< 0.2	-	-	-
DDT	µg/L	T	0.001	0.006	0.0004 ¹⁹	-	90	-	< 0.2	< 0.2	-	-	-
Dieldrin	µg/L	T	0.001	0.01 ¹⁹	-	-	3 ¹⁰	-	< 0.2	< 0.2	-	-	-

Table : Summary of laboratory results - groundwater

Sample ID	Units	Total or filtered	PQL	DGV, Freshwater - 95% / 99% LOP	DGV, Marine Water - 95% / 99% LOP	HSL-D Screen Clay 2m - 4m Solubility Limit	NHMRC (2008) Recreation	TTC Midas MW3	TTC MW1	TTC MW1 (Field Dup)	TTC MW2	TTC MW3	TTC MW4
Parent sample										TTC MW1			
Sampled date								25/03/26	25/03/26	25/03/26	25/03/26	25/03/26	25/03/26
Endosulfan I	µg/L	T	0.002	-	-	-	200 ⁹	-	< 0.2	< 0.2	-	-	-
Endosulfan II	µg/L	T	0.002	-	-	-	200 ¹¹	-	< 0.2	< 0.2	-	-	-
Endosulfan sulphate	µg/L	T	0.001	-	-	-	-	-	< 0.2	< 0.2	-	-	-
Endrin	µg/L	T	0.001	0.01	0.004	-	-	-	< 0.2	< 0.2	-	-	-
Endrin aldehyde	µg/L	T	0.2	-	-	-	-	-	< 0.2	< 0.2	-	-	-
g-BHC (Lindane)	µg/L	T	0.001	0.2	0.007 ¹⁹	-	100	-	< 0.2	< 0.2	-	-	-
Heptachlor	µg/L	T	0.001	0.01	0.0004 ¹⁹	-	3	-	< 0.2	< 0.2	-	-	-
Heptachlor epoxide	µg/L	T	0.001	-	-	-	-	-	< 0.2	< 0.2	-	-	-
Hexachlorobenzene (HCB)	µg/L	T	0.001	0.05	0.05	-	-	-	< 0.2	< 0.2	-	-	-
Methoxychlor	µg/L	T	0.001	0.005 ¹⁹	0.004 ¹⁹	-	3,000 ¹²	-	< 0.2	< 0.2	-	-	-
Mirex	µg/L	T	0.2	0.04 ¹⁹	-	-	-	-	< 0.2	< 0.2	-	-	-
p,p'-DDE (4,4-DDE)	µg/L	T	0.001	-	-	-	-	-	< 0.2	< 0.2	-	-	-
OPP													
Azinophos methyl (Guthion)	µg/L	T	0.02	0.01	-	-	300	-	-	-	-	-	-
Bromophos-ethyl	µg/L	T	0.05	-	-	-	100	-	-	-	-	-	-
Chlorpyrifos	µg/L	T	0.009	0.01	0.009	-	100	-	-	-	-	-	-
Chlorpyrifos-methyl	µg/L	T	0.05	-	-	-	-	-	-	-	-	-	-
Coumaphos	µg/L	T	0.05	-	-	-	-	-	-	-	-	-	-
Diazinon	µg/L	T	0.01	0.01	-	-	40	-	-	-	-	-	-
Dichlorvos	µg/L	T	0.05	-	-	-	50	-	-	-	-	-	-
Dimethoate	µg/L	T	0.1	0.15	-	-	70	-	-	-	-	-	-
Disulfoton	µg/L	T	0.05	-	-	-	40	-	-	-	-	-	-
Ethion	µg/L	T	0.05	-	-	-	40	-	-	-	-	-	-
Ronnel	µg/L	T	0.05	-	-	-	-	-	-	-	-	-	-
Fenamiphos	µg/L	T	0.05	-	-	-	5	-	-	-	-	-	-
Fenitrothion	µg/L	T	0.05	0.2	0.001 ¹⁹	-	70	-	-	-	-	-	-
Fenthion	µg/L	T	0.05	-	-	-	70	-	-	-	-	-	-
Malathion	µg/L	T	0.05	0.05	-	-	700	-	-	-	-	-	-
Methyl parathion	µg/L	T	0.05	-	-	-	7	-	-	-	-	-	-
Methidathion	µg/L	T	0.05	-	-	-	60	-	-	-	-	-	-
Mevinphos (Phosdrin)	µg/L	T	0.05	-	-	-	50	-	-	-	-	-	-
Parathion	µg/L	T	0.004	0.004	-	-	200	-	-	-	-	-	-
Phorate	µg/L	T	0.05	-	-	-	-	-	-	-	-	-	-
Phosalone	µg/L	T	0.05	-	-	-	-	-	-	-	-	-	-
Organic													
Carbon	mg/L	T	1	-	-	-	-	-	-	-	-	-	-
Nutrients													
Ammonia (as N)	µg/L	F	5	720	910	-	-	-	-	-	-	-	-
Total Kjeldahl Nitrogen (TKN)	mg/L	T	0.1	-	-	-	-	-	-	-	-	-	-
Nitrate (as N)	mg/L	F	0.005	1.1	-	-	113	0.008	< 0.005	-	-	-	-
Nitrite (as N)	µg/L	F	5	-	-	-	9,000	-	-	-	-	-	-
NOx (as N)	mg/L	T	0.005	-	-	-	-	-	-	-	-	-	-
Total Organic Nitrogen (TON, as N)	mg/L	T	0.2	-	-	-	-	-	-	-	-	-	-
Nitrogen (Total)	mg/L	T	0.1	-	-	-	-	-	-	-	-	-	-
Total Phosphorus (Organic Phosphate)	mg/L	T	0.05	-	-	-	-	-	-	-	-	-	-
Reactive Phosphorus as P (Orthophosphate as P)	mg/L	F	0.005	-	-	-	-	-	-	-	-	-	-
Microbiological													
E. Coli	CFU/100 mL	T	1	-	-	-	-	-	-	-	-	-	-
Enterococci	CFU/100 mL	T	1	-	-	-	-	-	-	-	-	-	-
Other inorganics													
Chloride	mg/L	T	1	-	-	-	-	-	-	-	-	-	-
VOC													
Tetrachloroethene	µg/L	T	1	70	70	-	500	<1	<1	<1	-	-	-
Trichloroethene	µg/L	T	1	330	330	-	-	<1	<1	<1	-	-	-
cis-1,2-dichloroethene	µg/L	T	1	-	-	-	600 ¹	<1	<1	<1	-	-	-
1,2-Dichloroethene [trans]	µg/L	T	1	-	-	-	-	<1	<1	<1	-	-	-
Vinyl chloride	µg/L	T	10	100	100	-	3	<10	<10	<10	-	-	-
1,1-dichloroethene	µg/L	T	1	700	700	-	300	<1	<1	<1	-	-	-
Carbon tetrachloride	µg/L	T	1	240	240	-	30	<1	<1	<1	-	-	-
Chloroform	µg/L	T	1	370	370	-	2,500 ²	<1	<1	<1	-	-	-
Chloromethane	µg/L	T	10	-	-	-	-	<10	<10	<10	-	-	-
1,1,2,2-tetrachloroethane	µg/L	T	1	400	400	-	-	<1	<1	<1	-	-	-
1,1,1-trichloroethane	µg/L	T	1	270	270	-	-	<1	<1	<1	-	-	-
1,1,2-trichloroethane	µg/L	T	1	6,500	1,900	-	-	<1	<1	<1	-	-	-
1,1-dichloroethane	µg/L	T	1	-	-	-	-	<1	<1	<1	-	-	-
1,2-dichloroethane	µg/L	T	1	1,900	1,900	-	30	<1	<1	<1	-	-	-
Chloroethane	µg/L	T	10	-	-	-	-	<10	<10	<10	-	-	-
cis-1,3-dichloropropene	µg/L	T	1	-	-	-	-	<1	<1	<1	-	-	-
trans-1,3-dichloropropene	µg/L	T	1	-	-	-	-	<1	<1	<1	-	-	-
Hexachlorobutadiene	µg/L	T	1	-	-	-	7	<1	<1	<1	-	-	-
1,2-dichloropropane	µg/L	T	1	900	900	-	-	<1	<1	<1	-	-	-
Chlorobenzene	µg/L	T	1	55	55	-	3,000	<1	<1	<1	-	-	-
1,2,4-trichlorobenzene	µg/L	T	1	85	20	-	-	<1	<1	<1	-	-	-
1,4-dichlorobenzene	µg/L	T	1	60	-	-	400	<1	<1	<1	-	-	-
1,2-dichlorobenzene	µg/L	T	1	160	-	-	15,000	8	<1	<1	-	-	-
1,3-dichlorobenzene	µg/L	T	1	260	-	-	-	<1	<1	<1	-	-	-
Dichlorodifluoromethane	µg/L	T	10	-	-	-	-	<10	<10	<10	-	-	-
Trichlorofluoromethane	µg/L	T	10	-	-	-	-	<10	<10	<10	-	-	-
Bromodichloromethane	µg/L	T	1	-	-	-	2,500 ³	<1	<1	<1	-	-	-
Chlorodibromomethane	µg/L	T	1	-	-	-	2,500 ⁴	<1	<1	<1	-	-	-
Bromoform	µg/L	T	1	-	-	-	2,500 ⁵	<1	<1	<1	-	-	-
Bromomethane	µg/L	T	10	-	-	-	10	<10	<10	<10	-	-	-
1,2-dibromoethane	µg/L	T	1	-	-	-	10	<1	<1	<1	-	-	-

Table : Summary of laboratory results - groundwater

Sample ID	Units	Total or filtered	PQL	DGV, Freshwater - 95% / 99% LOP	DGV, Marine Water - 95% / 99% LOP	HSL-D Screen Clay 2m - 4m Solubility Limit	NHMRC (2008) Recreation	TTC Midas MW3	TTC MW1	TTC MW1 (Field Dup)	TTC MW2	TTC MW3	TTC MW4
Parent sample										TTC MW1			
Sampled date								25/03/26	25/03/26	25/03/26	25/03/26	25/03/26	25/03/26
1,3,5-trimethylbenzene	µg/L	T	1	-	-	-	-	6	<1	<1	-	-	-
1,2,4-trimethylbenzene	µg/L	T	1	-	-	-	-	53	<1	<1	-	-	-
Styrene	µg/L	T	1	-	-	-	300	<1	<1	<1	-	-	-
Cyclohexane	µg/L	T	1	-	-	-	-	10	1	1	-	-	-
1,1,1,2-tetrachloroethane	µg/L	T	1	-	-	-	-	<1	<1	<1	-	-	-
1,1-dichloropropene	µg/L	T	1	-	-	-	-	<1	<1	<1	-	-	-
1,2-dibromo-3-chloropropane	µg/L	T	1	-	-	-	-	<1	<1	<1	-	-	-
1,2,3-trichlorobenzene	µg/L	T	1	3	-	-	-	<1	<1	<1	-	-	-
1,2,3-trichloropropane	µg/L	T	1	-	-	-	-	<1	<1	<1	-	-	-
1,3-dichloropropane	µg/L	T	1	1,100	1,100	-	-	<1	<1	<1	-	-	-
2-chlorotoluene	µg/L	T	1	-	-	-	-	<1	<1	<1	-	-	-
2,2-dichloropropane	µg/L	T	1	-	-	-	-	<1	<1	<1	-	-	-
4-chlorotoluene	µg/L	T	1	-	-	-	-	<1	<1	<1	-	-	-
Bromobenzene	µg/L	T	1	-	-	-	-	<1	<1	<1	-	-	-
Bromochloromethane	µg/L	T	1	-	-	-	-	<1	<1	<1	-	-	-
Dibromomethane	µg/L	T	1	-	-	-	-	<1	<1	<1	-	-	-
Isopropylbenzene	µg/L	T	1	30	30	-	-	19	2	2	-	-	-
n-butylbenzene	µg/L	T	1	-	-	-	-	7	3	2	-	-	-
n-propylbenzene	µg/L	T	1	-	-	-	-	39	4	4	-	-	-
p-isopropyltoluene	µg/L	T	1	-	-	-	-	2	<1	<1	-	-	-
sec-butylbenzene	µg/L	T	1	-	-	-	-	13	<1	1	-	-	-
tert-butylbenzene	µg/L	T	1	-	-	-	-	1	<1	<1	-	-	-
Additional PhysChem													
Calcium	mg/L	F	0.5	-	-	-	-	-	-	-	-	-	-
Potassium	mg/L	F	0.5	-	-	-	-	-	-	-	-	-	-
Magnesium	mg/L	F	0.5	-	-	-	-	-	-	-	-	-	-
Sodium	mg/L	F	0.5	-	-	-	-	-	-	-	-	-	-
Other													
Thermotolerant Coliforms	CFU/100 mL	T	1	-	-	-	-	-	-	-	-	-	-

Criteria adopted from the following guidelines:

NHMRC Guidelines for Managing Risks In Recreational Water (2008)

ANZG, Australian and New Zealand Guidelines for Fresh and Marine Water Quality (2018). DGV for 95% LOP or 99% LOP as recc

Notes:

This table does not represent the full analytical results, please refer to the laboratory certificate(s) for full details

Results displayed in grey text were recorded below the laboratory practical quantitation limit (PQL)

Cream shading indicates results with PQL above one or more assessment criteria

DGV – default guideline value

HSL – health screening level

LOP – level of protection of species

PQL – practical quantitation limit

Concentration exceeds solubility limit

Guideline Changes:

⁶Guideline for Aldrin + Dieldrin

⁷Guideline for Chlordane adopted

⁸Guideline for Chlordane adopted

⁹Guideline for Endosulfan adopted

¹⁰Guideline for Aldrin + Dieldrin

¹¹Guideline for Endosulfan adopted

¹³Guidelines for pentachlorophenol used as an initial screen

¹⁴Aesthetic OPQL| NLy

¹⁵High reliability freshwater guideline adopted in lieu of low reliability interim marine guidelines

¹⁶Freshwater criteria adopted in absence of marine criteria.

¹⁷Freshwater criteria adopted in absence of marine criteria.

¹⁸Freshwater criteria adopted in absence of marine criteria

Guideline Notes:

¹⁹Unknown LOP

²⁰Adopted Pentachlorophenol criteria (conservative)

²¹Criteria for total iron used as a screen

²²Low reliability (unknown LOP) arsenic (III) trigger value adopted for use as an indicative interim working level

²³Criteria for xylene (m) used as a conservative screen for total xylenes

²⁴DGV for chromium (VI) adopted as a conservative screen for total chromium. DGV for chromium (III) is 6.7 ug/L

Appendix D

D1: Extracted Borehole and Test Pit Logs from Previous Reports

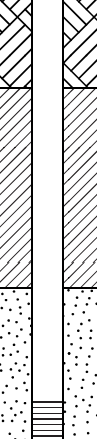
D2: DSI Logs

Client: Ausgrid	Drilling Date: 19/07/2018 - 20/07/2018	Elevation (Ground): -
Project No: 0469631	Drilling Method: CC/HA/NDD/PT/SFA	Elevation (Case): -
Project Name: Mosman Ausgrid DSI	Hole Diam./Width (mm): 250	Easting (MGA): -
Site Address: 516 Military Road, Mosman	Surface Completion: Gatic	Northing (MGA): -
	Water Strike (m bgl): 4.6	

Comments:

Log By: H. Barker

Checked By: M. Crow

Material Description	Symbol	Well Diagram	Depth (m)	Drilling Method	Sample Type	Analysed	PID	Samples	Additional Observations			
CONCRETE: Okay Condition.			0.5	CC	DS	N	1.3	MW01_0.2, D01_20180719				
FILL: Gravelly sand, dark grey, dry, moderately sorted, minor gravels (up to 15 mm, angular), no odour, no staining.				HA	DS	Y	1.3					
				NDD	DS	N	1.2					
					DS	N	0.4					
CLAY: Orange with white mottling, damp, dense, low plasticity, homogenous, dry from 0.4 m, no odour, no staining.						1				DS	N	5
							DS			N	0.7	
							DS			N	8.5	
	PT											
		NDS	N				39.1	MW01_3.0				
		NDS	Y				377					
	NDS	N	5.3									
SFA												
SANDSTONE: Bedrock.			4.5		DS	N	106.1					
Termination Depth at: 5 m			5		DS	N	20.1					
			5.5									

Client: Ausgrid
Project No: 0469631
Project Name: Mosman Ausgrid DSI
Site Address: 516 Military Road, Mosman

Drilling Date: 19/07/2018 - 20/07/2018
Drilling Method: CC/HA/NDD/PT/SFA
Hole Diam./Width (mm): 250
Surface Completion: Gatic
Water Strike (m bgl): 4.6

Elevation (Ground): -
Elevation (Case): -
Easting (MGA): -
Northing (MGA): -

Comments:

Log By: H. Barker
Checked By: M. Crow

Material Description	Symbol	Well Diagram	Depth (m)	Drilling Method	Sample Type	Analysed	PID	Samples	Additional Observations
CONCRETE: Moderate Condition.				CC	DS	Y	136.1	MW02_0.2	
FILL: Gravelly sand, brown/grey, damp, moderately sorted, gravels up to 10 mm, strong odour.				HA	DS	N	140.5		
CONCRETE: Poor Condition.					DS	Y	1760	MW02_0.5,	
SILTY CLAYEY GRAVEL: Dark grey, damp, poorly sorted, angular gravels (up to 70 mm), minor steel, sandstone and bitumen, strong odour.			0.5				1900	T01_20180719	
CLAY: Orange, damp, moderately dense, moderate plasticity, homogenous, strong odour.			1		DS	N	1741		
CLAY: Light grey with red mottling, dense - brittle, moderate - high plasticity, homogenous, strong odour.			1.5		DS	N	1600		
					DS	N	1401		
CLAY: Light grey, interbedded with ironstone (red, hard), wet (from NDD), soft, moderate plasticity, homogenous, odour present.			2	NDD	DS	N	817.1		
CLAY: Brown - dark brown, dry, dense, hard, low plasticity, homogenous, no odour, no staining.			2.5	PT	NDS	N	16.1		
			3		NDS	N	2.7		
			3.5		NDS	N	2		
			4	SFA	DS	N	1.2		
			4.5						
CLAY: Brown, wet, soft, high plasticity, homogenous, no odour, no staining.			5		DS	N	0.6		
SANDSTONE: Bedrock.			5.5		DS	N	0.4		
Termination Depth at: 5.6 m									

Client: Ausgrid	Drilling Date: 19/07/2018 - 20/07/2018	Elevation (Ground): -
Project No: 0469631	Drilling Method: CC/HA/NDD/PT/SFA	Elevation (Case): -
Project Name: Mosman Ausgrid DSI	Hole Diam./Width (mm): 250	Easting (MGA): -
Site Address: 516 Military Road, Mosman	Surface Completion: Gatic	Northing (MGA): -
	Water Strike (m bgl): 4.2	

Comments:	Log By: H. Barker
	Checked By: M. Crow

Material Description	Symbol	Well Diagram	Depth (m)	Drilling Method	Sample Type	Analysed	PID	Samples	Additional Observations
CONCRETE: Okay Condition.				CC	DS	Y	1.3	MW03_0.12	
FILL: Gravelly sand, light brown/orange, loose, well sorted, minor gravels, no odour, no staining				HA	DS	N	1		
CLAY: Orange - light grey, damp - moist, soft, high plasticity, homogenous, no odour, no staining			0.5		DS	N	1		
CLAY: Clay, light grey with minor red mottling (increased red mottling after 1.0 m), damp till 0.7 m (fracturing of clays post 0.7 m), moderately dense, low plasticity.			1		DS	Y	0.6	MW03_1.0	
			1.5		DS	N	0.7		
CLAY: Brown with white mottling, (wet from NDD), soft, high plasticity, homogenous, no odour, no staining.			2	NDD					
			2.5		DS	N	0.5		
CLAY: Light grey (clay colour changed to red at 4.0 m), dense, low plasticity, homogenous, red interbedded iron stone at 3.3 m.			3	PT	NDS	N	0.2		
			3.5		NDS	N	0.2		
			4		NDS	N	0.3		
			4	SFA					
SANDSTONE: Bedrock.					DS	N	0.4		Refused on bedrock.
Termination Depth at: 4.4 m			4.5						
			5						
			5.5						



Environmental Log - Borehole

client: **Ausgrid**

principal:

project: **CL 1321 Military Road**

location: **494-500 & 516 Military Road, Mosman**

Hole ID. **BH05**

sheet: 1 of 1

project no. **754-SYDEN394033**

date started: **28 May 2025**

date completed: **28 May 2025**

logged by: **EW**

checked by: **MD**

position: Not Specified surface elevation: Not Specified angle from horizontal: 90°
equipment type: Hand Auger drilling fluid: hole diameter :

drilling information					material substance				
method & support	water	samples & field tests	photoluminescence detector (ppmv)	RL (m)	depth (m)	graphic log	soil group symbol	material description SOIL NAME plasticity or particle characteristics, colour, secondary and minor components	moisture condition consistency / relative density
PT N Not Observed		BH05_0.2-0.4	0		0.5			CONCRETE: 200 mm thickness.	D
								FILL: Silty Sandy GRAVEL CLAY: low to medium plasticity, coarse grained gravel, trace slag and sandstone gravel.	D
		BH05_0.7-1.0	0					FILL: SAND: fine to coarse grained, pale grey, trace clay nodules and ironstone gravel.	
		BH05_1.0-1.2	0		1.0		CI-CH	Silty CLAY: medium to high plasticity, pale grey mottled red brown.	<Wp
					1.5				
		BH05_1.7-1.9	0		2.0		CL-CI	Silty Sandy CLAY: low to medium plasticity, pale grey mottled red brown, trace sandstone gravel.	
					2.5			Borehole BH05 terminated at 2.20 m Target depth	
					3.0				
					3.5				

method AD auger drilling* HA hand auger MR mud rotary W washbore PT push tube HS hollow stem SS solid stem SD sonic drilling * bit shown by suffix e.g. AD/T B blank bit T TC bit V V bit	support M mud C casing N nil water 10-Oct-12 water level on date shown water inflow water outflow	samples & field tests B bulk disturbed sample D disturbed sample E environmental sample SS split spoon sample U## undisturbed sample ##mm diameter WS water sample HB hammer bouncing N standard penetration test (SPT) N* SPT - sample recovered Nc SPT with solid cone R refusal	soil group symbol & material description based on AS 1726:2017 moisture condition D dry M moist W wet Wp plastic limit Wl liquid limit	consistency / relative density VS very soft S soft F firm St stiff VSt very stiff H hard Fb friable VL very loose L loose MD medium dense D dense VD very dense
---	--	--	---	--



Environmental Log - Borehole

client: **Ausgrid**

principal:

project: **CL 1321 Military Road**location: **494-500 & 516 Military Road, Mosman**Hole ID. **BH06**

sheet: 1 of 1

project no. **754-SYDEN394033**date started: **28 May 2025**date completed: **28 May 2025**logged by: **EW**checked by: **MD**

position: Not Specified surface elevation: Not Specified angle from horizontal: 90°
 equipment type: Hand Auger drilling fluid: hole diameter :

drilling information					material substance						
method & support	water	samples & field tests	photolization detector (ppmv)	RL (m)	depth (m)	graphic log	soil group symbol	material description SOIL NAME plasticity or particle characteristics, colour, secondary and minor components	moisture condition	consistency / relative density	soil origin, structure and additional observations
HA N Not Observed								CONCRETE: 200 mm thickness.	D		CONCRETE
		BH06_0.2-0.4						FILL: Silty Sandy CLAY: low to medium plasticity, trace plastic, sandstone.	D		FILL No odour, No ASB
		BH06_0.4-0.5	0.4		0.5		CI-CH	FILL: SAND: medium to coarse grained, brown, trace sandstone gravel and ironstone.			RESIDUAL hydrocarbon odour
		BH06_0.5-0.8	2.1		Silty CLAY: medium to high plasticity, pale grey mottled orange brown.						
		BH06_1.0-1.2	7.2		1.0			SHALE: pale grey, extremely weathered, dry.	D		BEDROCK
		BH06_1.2-1.3	6.5		1.5						
		BH06_2.0-2.4	3.1		2.0						
					2.5			Borehole BH06 terminated at 2.40 m Target depth			
					3.0						
					3.5						

method	support	samples & field tests	soil group symbol & material description based on AS 1726:2017	consistency / relative density
AD auger drilling* HA hand auger MR mud rotary W washbore PT push tube HS hollow stem SS solid stem SD sonic drilling * bit shown by suffix e.g. AD/T B blank bit T TC bit V V bit	M mud C casing N nill water	B bulk disturbed sample D disturbed sample E environmental sample SS split spoon sample U## undisturbed sample ##mm diameter WS water sample HB hammer bouncing N standard penetration test (SPT) N* SPT - sample recovered Nc SPT with solid cone R refusal	moisture condition D dry M moist W wet Wp plastic limit Wl liquid limit	VS very soft S soft F firm St stiff VSt very stiff H hard Fb friable VL very loose L loose MD medium dense D dense VD very dense



Environmental Log - Borehole

client: **Ausgrid**

principal:

project: **CL 1321 Military Road**

location: **494-500 & 516 Military Road, Mosman**

Hole ID. **BH07**

sheet: 1 of 1

project no. **754-SYDEN394033**

date started: **28 May 2025**

date completed: **28 May 2025**

logged by: **EW**

checked by: **MD**

position: Not Specified surface elevation: Not Specified angle from horizontal: 90°
equipment type: Hand Auger drilling fluid: hole diameter :

drilling information					material substance				
method & support	water	samples & field tests	photoluminescence detector (ppmv)	RL (m)	depth (m)	graphic log	soil group symbol	material description	soil origin, structure and additional observations
PT N Not Observed								CONCRETE: 170 mm thickness.	CONCRETE
		BH07_0.17-0.8	1.7		0.5			FILL: Silty Sandy CLAY: low to medium plasticity, trace of sandstone gravel.	FILL No Odour, No Asb
							CL-CI	Silty CLAY: low to medium plasticity, pale grey mottled red brown, trace sandstone gravel.	RESIDUAL
		BH07_0.8-1.2	3.3		1.0				
		BH07_1.2-1.5	1.2		1.5				
					2.0			SILTSTONE: pale grey, extremely weathered.	
		BH07_2.0-2.3	1		2.5			Borehole BH07 terminated at 2.30 m Target depth	
					3.0				
					3.5				

method AD auger drilling* HA hand auger MR mud rotary W washbore PT push tube HS hollow stem SS solid stem SD sonic drilling * bit shown by suffix e.g. AD/T B blank bit T TC bit V V bit	support M mud C casing N nil water 10-Oct-12 water level on date shown water inflow water outflow	samples & field tests B bulk disturbed sample D disturbed sample E environmental sample SS split spoon sample U## undisturbed sample ##mm diameter WS water sample HB hammer bouncing N standard penetration test (SPT) N* SPT - sample recovered Nc SPT with solid cone R refusal	soil group symbol & material description based on AS 1726:2017 moisture condition D dry M moist W wet Wp plastic limit Wl liquid limit	consistency / relative density VS very soft S soft F firm St stiff VSt very stiff H hard Fb friable VL very loose L loose MD medium dense D dense VD very dense
---	--	--	---	--



Environmental Log - Borehole

client: **Ausgrid**

principal:

project: **CL 1321 Military Road**

location: **494-500 & 516 Military Road, Mosman**

Hole ID. **BH08**

sheet: 1 of 1

project no. **754-SYDEN394033**

date started: **27 May 2025**

date completed: **27 May 2025**

logged by: **EW**

checked by: **MD**

position: Not Specified surface elevation: Not Specified angle from horizontal: 90°
equipment type: Hand Auger drilling fluid: hole diameter :

drilling information						material substance					
method & support	water	samples & field tests	photoionization detector (ppmv)	RL (m)	depth (m)	graphic log	soil group symbol	material description SOIL NAME plasticity or particle characteristics, colour, secondary and minor components	moisture condition	consistency / relative density	soil origin, structure and additional observations
HA N	Not Observed		1.7		0.5			CONCRETE CORE: 130 mm thickness.			CONCRETE
		BH08_0.13-0.27						FILL: Silty Sandy GRAVELLY CLAY: low to medium plasticity, brown, trace slag, sandstone bitumen.			FILL No Odour, No asb
			0.9					FILL: Silty CLAY: low to medium plasticity, grey, trace sandstone, plastic, bitumen, slag, glass, ash and metal.			
		BH08_0.4-0.5									
		BH08_0.8-0.9						2.5			
			1.0			Borehole BH08 terminated at 0.90 m Refusal on gravel in Fill					
					1.5						
					2.0						
					2.5						
					3.0						
					3.5						

method AD auger drilling* HA hand auger MR mud rotary W washbore PT push tube HS hollow stem SS solid stem SD sonic drilling * bit shown by suffix e.g. AD/T B blank bit T TC bit V V bit	support M mud C casing N nil water 10-Oct-12 water level on date shown water inflow water outflow	samples & field tests B bulk disturbed sample D disturbed sample E environmental sample SS split spoon sample U## undisturbed sample ##mm diameter WS water sample HB hammer bouncing N standard penetration test (SPT) N* SPT - sample recovered Nc SPT with solid cone R refusal	soil group symbol & material description based on AS 1726:2017 moisture condition D dry M moist W wet Wp plastic limit Wl liquid limit	consistency / relative density VS very soft S soft F firm St stiff VSt very stiff H hard Fb friable VL very loose L loose MD medium dense D dense VD very dense
---	--	--	---	--



Environmental Log - Borehole

client: **Ausgrid**

principal:

project: **CL 1321 Military Road**

location: **494-500 & 516 Military Road, Mosman**

Hole ID. **BH09**

sheet: 1 of 1

project no. **754-SYDEN394033**

date started: **27 May 2025**

date completed: **27 May 2025**

logged by: **EW**

checked by: **MD**

position: Not Specified surface elevation: Not Specified angle from horizontal: 90°
equipment type: Hand Auger drilling fluid: hole diameter :

drilling information						material substance				
method & support	water	samples & field tests	photoionization detector (ppmv)	RL (m)	depth (m)	graphic log	soil group symbol	material description	moisture condition	consistency / relative density
HA	Not Observed	BH09_0.15-0.3	0					CONCRETE: 150 mm thickness.		CONCRETE
N								Silty Gravelly CLAY: low to medium plasticity, dark grey, with slag, sandstone and concrete gravel, trace of PVC.	<Wp	FILL No Odour, No asb
					0.5			Borehole BH09 terminated at 0.30 m Refusal on concrete gravel		
					1.0					
					1.5					
					2.0					
					2.5					
					3.0					
					3.5					

method AD auger drilling* HA hand auger MR mud rotary W washbore PT push tube HS hollow stem SS solid stem SD sonic drilling * bit shown by suffix e.g. AD/T B blank bit T TC bit V V bit	support M mud C casing N nil water 	samples & field tests B bulk disturbed sample D disturbed sample E environmental sample SS split spoon sample U## undisturbed sample ##mm diameter WS water sample HB hammer bouncing N standard penetration test (SPT) N* SPT - sample recovered Nc SPT with solid cone R refusal	soil group symbol & material description based on AS 1726:2017 moisture condition D dry M moist W wet Wp plastic limit Wl liquid limit	consistency / relative density VS very soft S soft F firm St stiff VSt very stiff H hard Fb friable VL very loose L loose MD medium dense D dense VD very dense
---	--	--	---	--



Environmental Log - Borehole

client: **Ausgrid**

principal:

project: **CL 1321 Military Road**

location: **494-500 & 516 Military Road, Mosman**

Hole ID. **BH10**

sheet: 1 of 1

project no. **754-SYDEN394033**

date started: **27 May 2025**

date completed: **27 May 2025**

logged by: **EW**

checked by: **MD**

position: Not Specified surface elevation: Not Specified angle from horizontal: 90°
equipment type: Hand Auger drilling fluid: hole diameter :

drilling information						material substance					
method & support	water	samples & field tests	photoionization detector (ppmv)	RL (m)	depth (m)	graphic log	soil group symbol	material description	moisture condition	consistency / relative density	soil origin, structure and additional observations
HA N	Not Observed		0	0.5			CONCRETE CORE: 130 mm thickness.			CONCRETE	
		BH10_0.13-0.23					FILL: Silty Gravelly CLAY: low to medium plasticity, grey, with trace root fibres, asphalt, slag and sandstone.			FILL No odour, no asb	
		BH10_0.4-0.5									
		BH10_0.6-0.8	0				FILL: Silty CLAY: low to medium plasticity, grey, with trace sandstone gravel and stone.				
					1.0			Borehole BH10 terminated at 0.80 m Refusal on sandstone gravel			
					1.5						
					2.0						
					2.5						
					3.0						
					3.5						

method AD auger drilling* HA hand auger MR mud rotary W washbore PT push tube HS hollow stem SS solid stem SD sonic drilling * bit shown by suffix e.g. AD/T B blank bit T TC bit V V bit	support M mud C casing N nil water 10-Oct-12 water level on date shown water inflow water outflow	samples & field tests B bulk disturbed sample D disturbed sample E environmental sample SS split spoon sample U## undisturbed sample ##mm diameter WS water sample HB hammer bouncing N standard penetration test (SPT) N* SPT - sample recovered Nc SPT with solid cone R refusal	soil group symbol & material description based on AS 1726:2017 moisture condition D dry M moist W wet Wp plastic limit Wl liquid limit	consistency / relative density VS very soft S soft F firm St stiff VSt very stiff H hard Fb friable VL very loose L loose MD medium dense D dense VD very dense
---	--	--	---	--



Environmental Log - Borehole

client: Ausgrid

principal:

project: CL 1321 Military Road

location: 494-500 & 516 Military Road, Mosman

Hole ID. BH11

sheet: 1 of 1

project no. 754-SYDEN394033

date started: 27 May 2025

date completed: 27 May 2025

logged by: EW

checked by: MD

position: Not Specified

surface elevation: Not Specified

angle from horizontal: 90°

equipment type: Hand Auger

drilling fluid:

hole diameter :

drilling information					material substance				
method & support	water	samples & field tests	photoluminescence detector (ppmv)	RL (m)	depth (m)	graphic log	soil group symbol	material description	soil origin, structure and additional observations
HA N	Not Observed	BH11_0.08-0.4	0.4					CONCRETE: 80 mm thickness.	CONCRETE
								FILL: Silty Gravelly CLAY: dark grey, trace sandstone gravel, slag, ironstone gravel.	FILL No odour, No ASB
					0.5			Borehole BH11 terminated at 0.40 m Refusal on gravel	
					1.0				
					1.5				
					2.0				
					2.5				
					3.0				
					3.5				

method	support	samples & field tests	soil group symbol & material description based on AS 1726:2017	consistency / relative density
AD auger drilling* HA hand auger MR mud rotary W washbore PT push tube HS hollow stem SS solid stem SD sonic drilling * bit shown by suffix e.g. AD/T B blank bit T TC bit V V bit	M mud C casing N nil water 10-Oct-12 water level on date shown water inflow water outflow	B bulk disturbed sample D disturbed sample E environmental sample SS split spoon sample U## undisturbed sample ##mm diameter WS water sample HB hammer bouncing N standard penetration test (SPT) N* SPT - sample recovered Nc SPT with solid cone R refusal	moisture condition D dry M moist W wet Wp plastic limit Wl liquid limit	VS very soft S soft F firm St stiff VSt very stiff H hard Fb friable VL very loose L loose MD medium dense D dense VD very dense

CDF_0_10_00.4_LIBRARY.GLB rev:CDF_0_10_00.4 2021-09-30 Log COF BOREHOLE: ENVIRONMENTAL 754-SYDEN394033.GPJ <<DrawingFile>> 01/08/2025 11:08



Environmental Log - Borehole

client: **Ausgrid**

principal:

project: **CL 1321 Military Road**

location: **494-500 & 516 Military Road, Mosman**

Hole ID. **BH12**

sheet: 1 of 1

project no. **754-SYDEN394033**

date started: **27 May 2025**

date completed: **27 May 2025**

logged by: **EW**

checked by: **MD**

position: Not Specified surface elevation: Not Specified angle from horizontal: 90°
equipment type: Hand Auger drilling fluid: hole diameter :

drilling information						material substance				
method & support	water	samples & field tests	photoionization detector (ppmv)	RL (m)	depth (m)	graphic log	soil group symbol	material description	moisture condition	consistency / relative density
HA N	Not Observed	BH12_0.13-0.23	0.5		0.5			CONCRETE: 130 mm thickness.	D	CONCRETE
								Silty Sandy GRAVELLY CLAY: low to medium plasticity, dark brown, with sandstone gravel, trace slag.	<Wp	
		BH12_0.4-0.5	1							
								Borehole BH12 terminated at 0.50 m Refusal on gravel		

method	support	samples & field tests	soil group symbol & material description based on AS 1726:2017	consistency / relative density
AD auger drilling* HA hand auger MR mud rotary W washbore PT push tube HS hollow stem SS solid stem SD sonic drilling * bit shown by suffix e.g. AD/T B blank bit T TC bit V V bit	M mud C casing N nil water 10-Oct-12 water level on date shown water inflow water outflow	B bulk disturbed sample D disturbed sample E environmental sample SS split spoon sample U## undisturbed sample ##mm diameter WS water sample HB hammer bouncing N standard penetration test (SPT) N* SPT - sample recovered Nc SPT with solid cone R refusal	moisture condition D dry M moist W wet Wp plastic limit Wl liquid limit	VS very soft S soft F firm St stiff VSt very stiff H hard Fb friable VL very loose L loose MD medium dense D dense VD very dense



Environmental Log - Borehole

client: Ausgrid	Hole ID: BH13
principal:	sheet: 1 of 1
project: CL 1321 Military Road	project no. 754-SYDEN394033
location: 494-500 & 516 Military Road, Mosman	date started: 27 May 2025
	date completed: 27 May 2025
	logged by: EW
	checked by: MD

position: Not Specified	surface elevation: Not Specified	angle from horizontal: 90°
equipment type: Hand Auger	drilling fluid:	hole diameter :

drilling information						material substance					
method & support	water	samples & field tests	photoionization detector (ppmv)	RL (m)	depth (m)	graphic log	soil group symbol	material description	moisture condition	consistency / relative density	soil origin, structure and additional observations
								SOIL NAME: plasticity or particle characteristics, colour, secondary and minor components			
								CONCRETE CORE: 130 mm thickness.			
								FILL: Silty Sandy GRAVELLY CLAY: low to medium plasticity, brown, trace concrete, brick, slag, glass, sandstone gravel.			

method AD auger drilling* HA hand auger MR mud rotary W washbore PT push tube HS hollow stem SS solid stem SD sonic drilling * bit shown by suffix e.g. AD/T B blank bit T TC bit V V bit	support M mud C casing N nil water 10-Oct-12 water level on date shown water inflow water outflow	samples & field tests B bulk disturbed sample D disturbed sample E environmental sample SS split spoon sample U## undisturbed sample ##mm diameter WS water sample HB hammer bouncing N standard penetration test (SPT) N* SPT - sample recovered Nc SPT with solid cone R refusal	soil group symbol & material description based on AS 1726:2017 moisture condition D dry M moist W wet Wp plastic limit Wl liquid limit	consistency / relative density VS very soft S soft F firm St stiff VSt very stiff H hard Fb friable VL very loose L loose MD medium dense D dense VD very dense
---	--	--	---	--



Environmental Log - Borehole

client: **Ausgrid**

principal:

project: **CL 1321 Military Road**

location: **494-500 & 516 Military Road, Mosman**

Hole ID. **BH14**

sheet: 1 of 1

project no. **754-SYDEN394033**

date started: **27 May 2025**

date completed: **27 May 2025**

logged by: **EW**

checked by: **MD**

position: Not Specified surface elevation: Not Specified angle from horizontal: 90°
equipment type: Hand Auger drilling fluid: hole diameter :

drilling information					material substance				
method & support	water	samples & field tests	photoluminescence detector (ppmv)	RL (m)	depth (m)	graphic log	soil group symbol	material description SOIL NAME plasticity or particle characteristics, colour, secondary and minor components	moisture condition consistency / relative density
HA N Not Observed		BH14_0.13-0.2			0.5		CL-CI	CONCRETE: 130 mm thickness. FILL: Silty CLAY: low to medium plasticity, dark grey, trace sandstone gravel and slag. Silty CLAY: low to medium plasticity, orange, brown mottled dark brown, trace ironstone gravel.	=Wp <Wp
		BH14_0.4-0.6							
		BH14_0.6-0.8					CI-CH	Silty CLAY: medium to high plasticity, pale grey mottled red brown.	
					1.0			Borehole BH14 terminated at 0.80 m Target depth	
					1.5				
					2.0				
					2.5				
					3.0				
					3.5				

method AD auger drilling* HA hand auger MR mud rotary W washbore PT push tube HS hollow stem SS solid stem SD sonic drilling * bit shown by suffix e.g. AD/T B blank bit T TC bit V V bit	support M mud C casing N nil water 10-Oct-12 water level on date shown water inflow water outflow	samples & field tests B bulk disturbed sample D disturbed sample E environmental sample SS split spoon sample U## undisturbed sample ##mm diameter WS water sample HB hammer bouncing N standard penetration test (SPT) N* SPT - sample recovered Nc SPT with solid cone R refusal	soil group symbol & material description based on AS 1726:2017 moisture condition D dry M moist W wet Wp plastic limit Wl liquid limit	consistency / relative density VS very soft S soft F firm St stiff VSt very stiff H hard Fb friable VL very loose L loose MD medium dense D dense VD very dense
---	--	--	---	--



Environmental Log - Borehole

client: **Ausgrid**

principal:

project: **CL 1321 Military Road**

location: **494-500 & 516 Military Road, Mosman**

Hole ID: **BH15**

sheet: 1 of 1

project no. **754-SYDEN394033**

date started: **27 May 2025**

date completed: **27 May 2025**

logged by: **EW**

checked by: **MD**

position: Not Specified surface elevation: Not Specified angle from horizontal: 90°
equipment type: Hand Auger drilling fluid: hole diameter :

drilling information					material substance				
method & support	water	samples & field tests	photoluminescence detector (ppmv)	RL (m)	depth (m)	graphic log	soil group symbol	material description	soil origin, structure and additional observations
HA N	Not Observed							CONCRETE CORE: 300 mm thickness.	CONCRETE
		BH15_0.35-0.4 BH15_0.4-0.5			0.5		CL-CI	FILL: SAND: fine grained, with clay nodules and sandstone gravel. Sandy CLAY: low to medium plasticity, orange brown mottled red brown, trace ironstone. Borehole BH15 terminated at 0.50 m Refusal on gravel	FILL No odour, No ASB RESIDUAL

method AD auger drilling* HA hand auger MR mud rotary W washbore PT push tube HS hollow stem SS solid stem SD sonic drilling * bit shown by suffix e.g. AD/T B blank bit T TC bit V V bit	support M mud C casing N nil water 	samples & field tests B bulk disturbed sample D disturbed sample E environmental sample SS split spoon sample U## undisturbed sample ##mm diameter WS water sample HB hammer bouncing N standard penetration test (SPT) N* SPT - sample recovered Nc SPT with solid cone R refusal	soil group symbol & material description based on AS 1726:2017 moisture condition D dry M moist W wet Wp plastic limit Wl liquid limit	consistency / relative density VS very soft S soft F firm St stiff VSt very stiff H hard Fb friable VL very loose L loose MD medium dense D dense VD very dense
---	--	--	---	--



Environmental Log - Borehole

client: **Ausgrid**

principal:

project: **CL 1321 Military Road**

location: **494-500 & 516 Military Road, Mosman**

Hole ID. **BH16**

sheet: 1 of 1

project no. **754-SYDEN394033**

date started: **27 May 2025**

date completed: **27 May 2025**

logged by: **EW**

checked by: **MD**

position: Not Specified surface elevation: Not Specified angle from horizontal: 90°
equipment type: Hand Auger drilling fluid: hole diameter :

drilling information						material substance					
method & support	water	samples & field tests	photolumination detector (ppmv)	RL (m)	depth (m)	graphic log	soil group symbol	material description SOIL NAME: plasticity or particle characteristics, colour, secondary and minor components	moisture condition	consistency / relative density	soil origin, structure and additional observations
HA N	Not Observed						CL-CI	CONCRETE: 120 mm thickness.	D		CONCRETE
		BH16_0.23-0.3	1.2		FILL: SAND: fine grained, brown, with root fibres.			D	FILL		
					Silty CLAY: low to medium plasticity, brown, with trace ironstone.			<Wp	No odour, no asb		
		BH16_0.4-0.5	1.2						RESIDUAL		
					0.5			Borehole BH16 terminated at 0.50 m Target depth			
					1.0						
					1.5						
					2.0						
					2.5						
					3.0						
					3.5						

method AD auger drilling* HA hand auger MR mud rotary W washbore PT push tube HS hollow stem SS solid stem SD sonic drilling * bit shown by suffix e.g. AD/T B blank bit T TC bit V V bit	support M mud C casing N nil water 10-Oct-12 water level on date shown water inflow water outflow	samples & field tests B bulk disturbed sample D disturbed sample E environmental sample SS split spoon sample U## undisturbed sample ##mm diameter WS water sample HB hammer bouncing N standard penetration test (SPT) N* SPT - sample recovered Nc SPT with solid cone R refusal	soil group symbol & material description based on AS 1726:2017 moisture condition D dry M moist W wet Wp plastic limit Wl liquid limit	consistency / relative density VS very soft S soft F firm St stiff VSt very stiff H hard Fb friable VL very loose L loose MD medium dense D dense VD very dense
---	--	--	---	--



Environmental Log - Borehole

client: **Ausgrid**

principal:

project: **CL 1321 Military Road**

location: **494-500 & 516 Military Road, Mosman**

Hole ID. **BH17**

sheet: 1 of 1

project no. **754-SYDEN394033**

date started: **27 May 2025**

date completed: **27 May 2025**

logged by: **EW**

checked by: **MD**

position: Not Specified surface elevation: Not Specified angle from horizontal: 90°
equipment type: Hand Auger drilling fluid: hole diameter :

drilling information						material substance					
method & support	water	samples & field tests	photoionization detector (ppmv)	RL (m)	depth (m)	graphic log	soil group symbol	material description SOIL NAME plasticity or particle characteristics, colour, secondary and minor components	moisture condition	consistency / relative density	soil origin, structure and additional observations
HA N	Not Observed	BH17_0.23-0.3	1	0.5	0.5			CONCRETE: 230 mm thickness.	D		CONCRETE
							FILL: Silty CLAY: low to medium plasticity, trace sandstone gravel and wire.	>Wp	FILL		
		BH17_0.4-0.6	1				CL-CI	Silty CLAY: low to medium plasticity, orange brown, trace ironstone gravel.	<Wp		RESIDUAL No Odour, No ASB
		BH17_0.6-0.8	0.9				CI-CH	Silty CLAY: medium to high plasticity, pale grey mottled orange brown.			
					1.0			Borehole BH17 terminated at 0.80 m Target depth			
					1.5						
					2.0						
					2.5						
					3.0						
					3.5						

method	support	samples & field tests	soil group symbol & material description based on AS 1726:2017	consistency / relative density
AD auger drilling* HA hand auger MR mud rotary W washbore PT push tube HS hollow stem SS solid stem SD sonic drilling * bit shown by suffix e.g. AD/T B blank bit T TC bit V V bit	M mud C casing N nil water 10-Oct-12 water level on date shown water inflow water outflow	B bulk disturbed sample D disturbed sample E environmental sample SS split spoon sample U## undisturbed sample ##mm diameter WS water sample HB hammer bouncing N standard penetration test (SPT) N* SPT - sample recovered Nc SPT with solid cone R refusal	moisture condition D dry M moist W wet Wp plastic limit WI liquid limit	VS very soft S soft F firm St stiff VSt very stiff H hard Fb friable VL very loose L loose MD medium dense D dense VD very dense



Environmental Log - Borehole

client: **Ausgrid**

principal:

project: **CL 1321 Military Road**

location: **494-500 & 516 Military Road, Mosman**

Hole ID. **BH18**

sheet: 1 of 1

project no. **754-SYDEN394033**

date started: **27 May 2025**

date completed: **27 May 2025**

logged by: **EW**

checked by: **MD**

position: Not Specified surface elevation: Not Specified angle from horizontal: 90°
equipment type: Hand Auger drilling fluid: hole diameter :

drilling information						material substance				
method & support	water	samples & field tests	photoluminescence detector (ppmv)	RL (m)	depth (m)	graphic log	soil group symbol	material description SOIL NAME plasticity or particle characteristics, colour, secondary and minor components	moisture condition	consistency / relative density
HA	Not Observed							CONCRETE CORE: 130 mm thickness.		CONCRETE
								Borehole BH18 terminated at 0.13 m Refusal on suspected double slab		
					0.5					
					1.0					
					1.5					
					2.0					
					2.5					
					3.0					
					3.5					

method AD auger drilling* HA hand auger MR mud rotary W washbore PT push tube HS hollow stem SS solid stem SD sonic drilling * bit shown by suffix e.g. AD/T B blank bit T TC bit V V bit	support M mud C casing N nil water 10-Oct-12 water level on date shown water inflow water outflow	samples & field tests B bulk disturbed sample D disturbed sample E environmental sample SS split spoon sample U## undisturbed sample ##mm diameter WS water sample HB hammer bouncing N standard penetration test (SPT) N* SPT - sample recovered Nc SPT with solid cone R refusal	soil group symbol & material description based on AS 1726:2017 moisture condition D dry M moist W wet Wp plastic limit Wl liquid limit	consistency / relative density VS very soft S soft F firm St stiff VSt very stiff H hard Fb friable VL very loose L loose MD medium dense D dense VD very dense
---	--	--	---	--



Environmental Log - Monitoring Well

client: **Ausgrid**

principal:

project: **CL 1321 Military Road**

location: **494-500 & 516 Military Road, Mosman**

Hole ID. **MW01**

sheet: 1 of 1

project no. **754-SYDEN394033**

date started: **28 May 2025**

date completed: **28 May 2025**

logged by: **EW**

checked by: **MD**

position: Not Specified surface elevation: Not Specified angle from horizontal: 90°
equipment type: Geoprobe, Track mounted drilling fluid: hole diameter :

drilling information				well details		material substance				
method & support	water	samples & field tests	photoluminescence detector (ppmv)	MW01	depth (m)	graphic log	soil group symbol	material description	moisture condition	consistency / relative density
SS N		MW01 0.17-0.2	0					CONCRETE: 170 mm thickness.		CONCRETE
		MW01 0.4-0.5	0					FILL: Silty CLAY: low to medium plasticity, dark grey, trace sandstone gravel.	<Wp	FILL
		MW01 0.9-1.0	0					FILL: SAND: medium to coarse grained, dark grey, trace brick and sandstone gravel.	D	No odour, No ASB
		MW01 1.4-1.8	21.6					FILL: CLAYEY SAND: medium to coarse grained, dark grey, trace pale grey, medium plasticity clay.		hydrocarbon odour
		MW01 1.9-2.0	16.25							
		MW01 2.9-3.0	16.8							
		MW01 3.9-4.0	1.1					SILTSTONE: dark grey, extremely weathered.	D	BEDROCK
		MW01 5.4-5.5	0					SANDSTONE: pale grey, extremely weathered.	D	
								Monitoring Well MW01 terminated at 5.50 m Target depth		standpipe piezometer MW01 details: 1.0-5.5m: screen

method AD auger drilling* HA hand auger MR mud rotary W washbore PT push tube HS hollow stem SS solid stem SD sonic drilling * bit shown by suffix e.g. AD/T B blank bit T TC bit V V bit	support M mud C casing N nill water 10-Oct-12 water level on date shown water inflow water outflow	samples & field tests B bulk disturbed sample D disturbed sample E environmental sample SS split spoon sample U## undisturbed sample ##mm diameter WS water sample HB hammer bouncing N standard penetration test (SPT) N* SPT - sample recovered Nc SPT with solid cone R refusal	soil group symbol & material description based on AS 1726:2017 moisture condition D dry M moist W wet Wp plastic limit Wl liquid limit	consistency / relative density VS very soft S soft F firm St stiff VSt very stiff H hard Fb friable VL very loose L loose MD medium dense D dense VD very dense
---	---	--	---	--



Environmental Log - Monitoring Well

client: **Ausgrid**

principal:

project: **CL 1321 Military Road**

location: **494-500 & 516 Military Road, Mosman**

Hole ID. **MW02**

sheet: 1 of 1

project no. **754-SYDEN394033**

date started: **28 May 2025**

date completed: **28 May 2025**

logged by: **EW**

checked by: **MD**

position: Not Specified surface elevation: Not Specified angle from horizontal: 90°
equipment type: Geoprobe, Track mounted drilling fluid: hole diameter :

drilling information				well details		material substance				
method & support	water	samples & field tests	photoluminescence detector (ppmv)	MW02	depth (m)	graphic log	soil group symbol	material description	moisture condition	consistency / relative density
SS N Not Observed		MW02 0.14-0.25	4.7					CONCRETE: 140 mm thickness.	=Wp	CONCRETE
		MW02 0.4-0.5	4.1					FILL: Silty Sandy CLAY: low to medium plasticity, dark grey, trace concrete and sandstone gravel.	M	FILL
		MW02 0.9-1.0	4.1		1.0			FILL: Silty CLAYEY SAND: fine grained, brown, trace clay nodules.		No odour, No ASB
		MW02 1.4-1.5	3.3					FILL: Silty Sandy CLAY: low to medium plasticity, pale grey mottled orange brown.		slight organic odour
		MW02 1.9-2.0	3		2.0		SP	SAND: medium to coarse grained, brown, trace sandstone gravel.		RESIDUAL
								1.8 m: becoming pale grey		
		MW02 2.9-3.0	2.1		3.0			SANDSTONE: fine to medium grained, pale grey.		BEDROCK
		MW02 3.9-4.0	3.5		4.0					
		MW02 4.9-5.0	2.7		5.0					
					6.0			Monitoring Well MW02 terminated at 6.00 m Target depth		standpipe piezometer MW02 details: 1.0-6.0m: screen
					7.0					

method AD auger drilling* HA hand auger MR mud rotary W washbore PT push tube HS hollow stem SS solid stem SD sonic drilling * bit shown by suffix e.g. AD/T B blank bit T TC bit V V bit	support M mud C casing N nil water 10-Oct-12 water level on date shown water inflow water outflow	samples & field tests B bulk disturbed sample D disturbed sample E environmental sample SS split spoon sample U## undisturbed sample ##mm diameter WS water sample HB hammer bouncing N standard penetration test (SPT) N* SPT - sample recovered Nc SPT with solid cone R refusal	soil group symbol & material description based on AS 1726:2017 moisture condition D dry M moist W wet Wp plastic limit Wl liquid limit	consistency / relative density VS very soft S soft F firm St stiff VSt very stiff H hard Fb friable VL loose L very loose MD medium dense D dense VD very dense
--	--	--	---	--



Environmental Log - Monitoring Well

client: **Ausgrid**

principal:

project: **CL 1321 Military Road**

location: **494-500 & 516 Military Road, Mosman**

Hole ID: **MW03**

sheet: 1 of 1

project no. **754-SYDEN394033**

date started: **28 May 2025**

date completed: **28 May 2025**

logged by: **EW**

checked by: **MD**

position: Not Specified surface elevation: Not Specified angle from horizontal: 90°
equipment type: Geoprobe, Track mounted drilling fluid: hole diameter :

drilling information				well details		material substance				
method & support	water	samples & field tests	photoluminescence detector (ppmv)	MW03	depth (m)	graphic log	soil group symbol	material description	moisture condition	consistency / relative density
HA N		MW03 0.17-0.2	0.8					CONCRETE: 170 mm thickness.	D	CONCRETE
		MW03 0.4-0.5	1.4					FILL: CLAYEY SAND: fine to medium grained, grey brown, trace sandstone, brick, clay nodules.	M	FILL
		MW03 0.9-1.0	1.8		1.0					No odour, No ASB
		MW03 1.4-1.5	1.6					SHALE: pale grey and red brown, extremely weathered.	M	BEDROCK
		MW03 1.9-2.0	2.3		2.0			SHALE: orange brown, extremely weathered.		No odour, No ASB
		MW03 2.9-3.0	1.9		3.0					
		MW03 3.9-4.0	1.6		4.0			becoming brown, weathered		
		MW03 4.9-5.0	0.3		5.0			Monitoring Well MW03 terminated at 5.00 m Target depth		standpipe piezometer MW03 details: 1.0-5.0m: screen
					6.0					
					7.0					

method AD auger drilling* HA hand auger MR mud rotary W washbore PT push tube HS hollow stem SS solid stem SD sonic drilling * bit shown by suffix e.g. AD/T B blank bit T TC bit V V bit	support M mud C casing N nill water 10-Oct-12 water level on date shown water inflow water outflow	samples & field tests B bulk disturbed sample D disturbed sample E environmental sample SS split spoon sample U## undisturbed sample ##mm diameter WS water sample HB hammer bouncing N standard penetration test (SPT) N* SPT - sample recovered Nc SPT with solid cone R refusal	soil group symbol & material description based on AS 1726:2017 moisture condition D dry M moist W wet Wp plastic limit Wl liquid limit	consistency / relative density VS very soft S soft F firm St stiff VSt very stiff H hard Fb friable VL very loose L loose MD medium dense D dense VD very dense
---	---	--	---	--



Environmental Log - Monitoring Well

client: **Ausgrid**

principal:

project: **CL 1321 Military Road**

location: **494-500 & 516 Military Road, Mosman**

Hole ID. **MW04**

sheet: 1 of 1

project no. **754-SYDEN394033**

date started: **28 May 2025**

date completed: **28 May 2025**

logged by: **EW**

checked by: **MD**

position: Not Specified surface elevation: Not Specified angle from horizontal: 90°
equipment type: Geoprobe, Track mounted drilling fluid: hole diameter :

drilling information				well details		material substance				
method & support	water	samples & field tests	photoluminescence detector (ppmv)	MW04	depth (m)	graphic log	soil group symbol	material description	moisture condition	consistency / relative density
SS N		MW04 0.17-0.25	0.5					CONCRETE: 170 mm thickness.	D	CONCRETE
								FILL: Silty Sandy CLAY: low to medium plasticity, dark grey, trace concrete and sandstone gravel.	=Wp	FILL
		MW04 0.9-1.0	0.4		1.0			FILL: SAND: medium to coarse grained, brown, trace concrete, sandstone, siltstone gravel.	D	No odour, No ASB
		MW04 1.4-1.8	0.5					FILL: Sandy CLAY: low to medium plasticity, brown, trace sandstone gravel.	=Wp	
		MW04 1.9-2.0	1.6		2.0			SILTSTONE: orange brown, extremely weathered.	M	BEDROCK
								4.6 m: becoming pale grey		No odour, No ASB
		MW04 3.9-4.0	1.6		4.0					
		MW04 4.9-5.0	0.1		5.0			Monitoring Well MW04 terminated at 5.10 m Target depth		standpipe piezometer MW04 details: 1.0-5.0m: screen
					6.0					
					7.0					

method	support	samples & field tests	soil group symbol & material description based on AS 1726:2017	consistency / relative density
AD auger drilling* HA hand auger MR mud rotary W washbore PT push tube HS hollow stem SS solid stem SD sonic drilling * bit shown by suffix e.g. AD/T B blank bit T TC bit V V bit	M mud C casing N nill water 10-Oct-12 water level on date shown water inflow water outflow	B bulk disturbed sample D disturbed sample E environmental sample SS split spoon sample U## undisturbed sample ##mm diameter WS water sample HB hammer bouncing N standard penetration test (SPT) N* SPT - sample recovered Nc SPT with solid cone R refusal	moisture condition D dry M moist W wet Wp plastic limit Wl liquid limit	VS very soft S soft F firm St stiff VSt very stiff H hard Fb friable VL loose L very loose MD medium dense D dense VD very dense

Phone: 61 455 485 502

BH1

Job Number : M20319
Client : NA
Project : 516 Military Road, Mosman NSW 2088
Location : 516 Military Rd, Mosman NSW 2088, Australia
Loc Comment :

Page 1 of 1

		NEO Consulting 186 Riverstone Parade, Riverstone NSW 2765, Australia Phone: 61 455 485 502		Geotechnical Log - Borehole BH2				
UTM : 56H Easting () : 336592.00 Northing () : 6255870.39 Ground Elevation : Not Surveyed Total Depth : 1 m BGL		Drill Rig : Driller Supplier : Logged By : Ehsan Zare Reviewed By : Date : 17/09/2025		Job Number : M20319 Client : NA Project : 516 Military Road, Mosman NSW 2088 Location : 516 Military Rd, Mosman NSW 2088, Australia Loc Comment :				
Depth (m)	Soil Origin	Graphic Log	Classification Code	Material Description	Moisture	Consistency/Density	Samples	PID
							Soil	
0.2	Non Soil		CCT	Non Soil Concrete Slab.				
	Fill		CI	soft, medium plasticity, fine grained sand, light grey, wet.	W	S-MC	Fill sample	
				BH2 Terminated at 1 m				



NEO Consulting

186 Riverstone Parade, Riverstone NSW 2765, Australia

Phone: 61 455 485 502

Geotechnical Log - Borehole

BH3

UTM : 56H

Drill Rig :

Job Number : M20319

Easting () : 336587.68

Driller Supplier :

Client : NA

Northing () : 6255875.88

Logged By : Ehsan Zare

Project : 516 Military Road, Mosman NSW 2088

Ground Elevation : Not Surveyed

Reviewed By :

Location : 516 Military Rd, Mosman NSW 2088, Australia

Total Depth : 0.35 m BGL

Date : 17/09/2025

Loc Comment :

Depth (m)	Soil Origin	Graphic Log	Classification Code	Material Description	Moisture	Consistency/Density	Samples	PID
							Soil	
	Non Soil		CCT	Non Soil Concrete Slab.				
0.2								
0.25	Fill		SW	loose, fine sized gravel, grey, moist.	M	L-MC	Fill sample	
	Rock		SST	Rock; Sandstone SST Weathered Medium to High strength Reddish Brown grained Fine.	D	MS-HS		
				BH3 Refusal at 0.35 m				

BOREHOLE LOG

CLIENT: ABADEEN
PROJECT: Proposed Development
LOCATION: 494-516 Military Road, Mosman, NSW 2088

SURFACE LEVEL: 88.1 AHD
COORDINATE: E:336544.6, N:6255888.2
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: BH101
PROJECT No: 240782.01
DATE: 16/03/26
SHEET: 1 of 1

CONDITIONS ENCOUNTERED							SAMPLE			TESTING AND REMARKS				
GROUNDWATER	RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN (#)	CONSIS. ^(*)	DENSITY. ^(*)	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
16/03/26 No Free Groundwater Observed	88	0.15	CONCRETE SLAB; with up to 20mm aggregate.		NA	NA		NA						
		0.20	FILL / Sandy SILT: dark grey; low plasticity; trace rootlets.		FILL			w<PL		ES	0.15	PID	<1ppm	
			Silty CLAY (CI-CH): orange-brown; medium to high plasticity; with ironstone gravel.		RS	ND		w=PL		ES	0.20	PID	<1ppm	
										ES	0.30	PID	<1ppm	
		1												
	87													
														</

NOTES: #Soil origin is "probable" unless otherwise stated. °Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: Miniprobe
METHOD: DT (140mm) to 0.15m, PT to 1.2m
REMARKS:

OPERATOR: Xsite (NW)

LOGGED: N. Woodward
CASING: Uncased

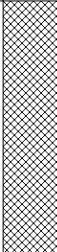
Refer to explanatory notes for symbol and abbreviation definitions

BOREHOLE LOG

CLIENT: ABADEEN
PROJECT: Proposed Development
LOCATION: 494-516 Military Road, Mosman, NSW 2088

SURFACE LEVEL: 88.0 AHD
COORDINATE: E:336553.7, N:6255880.2
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: BH102
PROJECT No: 240782.01
DATE: 16/03/26
SHEET: 1 of 1

GROUNDWATER		CONDITIONS ENCOUNTERED					SAMPLE			TESTING AND REMARKS			
RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN (#)	CONSIS. ⁽¹⁾ DENSITY. ⁽²⁾	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS	
16/03/26 No Free Groundwater Observed		FILL / Clayey SILT: dark brown; low to medium plasticity; trace asphaltic concrete rubble and rootlets.		FILL		w<PL		ES		0.10	PID	<1ppm	
	0.50	FILL / Sandy GRAVEL: dark grey; fine to coarse; with igneous gravel and asphaltic concrete rubble.		FILL		D	ES			0.50	PID	<1ppm	
	0.65	Silty CLAY (CI-CH): orange-brown with red-brown; medium to high plasticity.				ND				ES		0.65	PID
		From 0.80m: Pale grey with red-brown											
	0.87	1								RS	w=PL		ES
							ES		1.50	PID	<1ppm		
										1.70			
0.86	2	Borehole discontinued at 1.70m depth. Target Depth Reached.											
0.85													

NOTES: ⁽¹⁾Soil origin is "probable" unless otherwise stated. ⁽²⁾Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

NOTES: [#]Soil origin is "probable" unless otherwise stated. [†]Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: Miniprobe
METHOD: PT to 1.7m
REMARKS:

OPERATOR: Xsite (NW)

LOGGED: N. Woodward
CASING: Uncased

BOREHOLE LOG

CLIENT: ABADEEN
PROJECT: Proposed Development
LOCATION: 494-516 Military Road, Mosman, NSW 2088

SURFACE LEVEL: 88.1 AHD
COORDINATE: E:336536.8, N:6255873.9
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: BH103
PROJECT No: 240782.01
DATE: 16/03/26
SHEET: 1 of 1

CONDITIONS ENCOUNTERED							SAMPLE			TESTING AND REMARKS				
GROUNDWATER	RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN (#)	CONSIS. ^(*)	DENSITY. ^(*)	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
16/03/26 No Free Groundwater Observed	88	0.11	CONCRETE SLAB; with up to 20mm aggregates.		NA	NA		NA						
			FILL / Gravelly CLAY: brown; low to medium plasticity; igneous gravel.		FILL			ND		ES	0.11 - 0.30	PID	<1ppm	
		0.40	0.36m-0.40m: sandy gravel with asphalt; dark grey		FILL									
			FILL / Silty CLAY: red-brown mottled grey; medium to high plasticity; with ironstone gravel.		FILL					ES	0.40 - 0.60	PID	<1ppm	
		0.70	0.65m-0.70m: Pale yellow-brown Silty CLAY (CI-CH); yellow-brown with pale grey; medium to high plasticity; with ironstone gravel.							ES	0.60 - 0.70	PID	<1ppm	
		1			RS			ND						
								w=PL						
										ES	1.20 - 1.40	PID	<1ppm	
										ES	1.80 - 2.00	PID	<1ppm	
	87													
	86	2	Borehole discontinued at 2.00m depth. Target Depth Reached.											

NOTES: [#]Soil origin is "probable" unless otherwise stated. ^(*)Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

NOTES: #Soil origin is "probable" unless otherwise stated. °Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: Miniprobe
METHOD: DT (100mm) to 0.11m, PT to 2m
REMARKS:

OPERATOR: Xsite (NW)

LOGGED: N. Woodward
CASING: Uncased

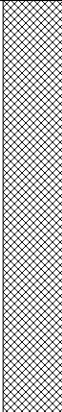
Refer to explanatory notes for symbol and abbreviation definitions

BOREHOLE LOG

CLIENT: ABADEEN
PROJECT: Proposed Development
LOCATION: 494-516 Military Road, Mosman, NSW 2088

SURFACE LEVEL: 87.0 AHD
COORDINATE: E:336560.1, N:6255861.1
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: BH104
PROJECT No: 240782.01
DATE: 16/03/26
SHEET: 1 of 1

CONDITIONS ENCOUNTERED														SAMPLE				TESTING AND REMARKS	
GROUNDWATER	DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN (#)	CONSIS. ^(*)	DENSITY. ^(*)	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS						
16/03/26 No Free Groundwater Observed	0.15	CONCRETE SLAB; with up to 20mm aggregates with reinforcing steel.		NA	NA		NA												
		FILL / Silty CLAY trace gravel: pale grey with red-brown; medium to high plasticity; concrete and ironstone gravel. Slight hydrocarbon odour.		FILL	ND		w=PL		ES	0.15	PID	<1ppm							
									0.30										
								ES	0.50	PID	<1ppm								
									0.70										
	1								ES	1.00	PID	<1ppm							
											1.20								
									* ES	1.40	PID	<1ppm							
											1.60								
	1.80		Clayey SILT (CL-Cl): pale grey; medium to high plasticity; / silty clay.																
2				RS		w<PL		ES	2.00	PID	<1ppm								
											2.20								
Borehole discontinued at 2.40m depth. Refusal on stiff clays.																			

NOTES: ^(*)Soil origin is "probable" unless otherwise stated. ^(*)Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

NOTES: #Soil origin is "probable" unless otherwise stated. °Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: Miniprobe
METHOD: DT (100mm) to 0.15m, PT to 2.4m
REMARKS: Replicate Sample *BD1/20260316 taken from 1.4-1.6m

OPERATOR: Xsite (NW)

LOGGED: N. Woodward
CASING: Uncased

Refer to explanatory notes for symbol and abbreviation definitions

BOREHOLE LOG

CLIENT: Abadeen
PROJECT: Proposed Development
LOCATION: 494-516 Military Road, Mosman, NSW 2088

SURFACE LEVEL: 86.6 AHD
COORDINATE: E:336525.9, N:6255827.2
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: BH105
PROJECT No: 240782.00
DATE: 13/03/26
SHEET: 1 of 3

GROUNDWATER	CONDITIONS ENCOUNTERED						SAMPLE			TESTING AND REMARKS						
	RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN (#)	CONSIS. ^(*) DENSITY. ^(*)	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS	BACKFILL	WELL PIPE	
13/03/26 No free groundwater observed whilst augering	86	0.10	CONCRETE.		NA	NA	NA			D	0.10					
			FILL / Sandy GRAVEL: yellow-grey; fine to coarse, igneous and sandstone; fine to coarse sand; trace brick fragments.		FILL	(PC) - (MC)	M		D	0.20						
		0.70	FILL / Sandy CLAY with gravel: red-brown; low to medium plasticity; fine to coarse sand; fine to medium, igneous gravel.		FILL		w=PL		D	0.40						
		1.00	CLAY (CI-CH) trace sand: pale grey and red-brown; medium to high plasticity; fine to medium sand.			VSt			SPT	0.50						
					RS				D	0.90						
									D	1.00						
									D	1.40						
									D	1.60						
									D	1.90						
									D	2.00						
	85	2														
	84	2.50	CLAY (CI-CH) trace sand: pale grey and red-brown; medium to high plasticity; fine to medium sand; trace bands of very low strength sandstone.						SPT	2.50		SPT	3,4,14 N=18			
		3														
	83				XWM	VSt - H										
		4														
	82	4.70	Continued as rock log						SPT	4.00		SPT	4,12,13 N=25			
		5														
	81															
		6														
	80															
		7														
	79															
		8														
	78															
		9														
	77															

NOTES: ^(*)Soil origin is "probable" unless otherwise stated. ^(*)Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

NOTES: #Soil origin is "probable" unless otherwise stated. °Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: Hanjin D&B8

OPERATOR: Rockwell (EM)

LOGGED: J. Sullivan

METHOD: AD/T to 4.7m, then NMLC to 14.9m

CASING: HWT to 4m

REMARKS: Hole reamed to HQ diameter for well installation.

Refer to explanatory notes for symbol and abbreviation definitions

BOREHOLE LOG

CLIENT: Abadeen
PROJECT: Proposed Development
LOCATION: 494-516 Military Road, Mosman, NSW 2088

SURFACE LEVEL: 86.6 AHD
COORDINATE: E:336525.9, N:6255827.2
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: BH105
PROJECT No: 240782.00
DATE: 13/03/26
SHEET: 2 of 3

GROUNDWATER	CONDITIONS ENCOUNTERED										SAMPLE			TESTING						
	RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	SOIL STRENGTH (kN/m² or lb/ft²) SOIL MOISTURE	GRAPHIC	WEATH. PSXWTHWTHWTHSWFR	DEPTH (m)	ESTIMATED STRENGTH VL L M H VH	RECOVERY (%)	RQD	FRACTURE SPACING (mm) 201003001000	DEFECTS & REMARKS	SAMPLE REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS	BACKFILL	WELL PIPE
13/03/26 No free groundwater observed whilst augering	86	1														1			Concrete	
	85	2														2			Bentonite	
	84	3														3			Backfill	
	83	4														4				
	82	5	Continued from soil log SANDSTONE: pale grey-brown, medium to coarse grained. Hawkesbury Sandstone.			HW	4.70	VL	100	0		4.95-5.14m: B x3, 0-5°, PR, CN, RF				5	PLT	PL(A)=0.06MPa		
	81	6				XW	5.45	SEAM			SEAM	5.45-5.57m: EW				6	PLT	PL(A)=0.09MPa		
						HW	5.57	VL				5.70m: JT, 90°, CU, CN, RF								
		6				XW	5.85	SEAM			SEAM	5.85-6.25m: EW				6	PLT	PL(A)=0.43MPa		
	80	7	From 6.25m: dark red-brown				6.25									7	PLT	PL(A)=0.65MPa		
	79	8				MW			100	88						8	PLT	PL(A)=0.53MPa		
			From 7.66m: pale grey				7.66	M											Backfill	
	78	9				FR										9	PLT	PL(A)=0.35MPa		
	77						8.67	M	100	97		9.50m: EW, 10mm							Sand	
						FR	9.67					9.62-9.67m: EW					PLT	PL(A)=0.37MPa		
NOTES: ¹ Soil origin is "probable" unless otherwise stated.																				

PLANT: Hanjin D&B8
METHOD: AD/T to 4.7m, then NMLC to 14.9m
REMARKS: Hole reamed to HQ diameter for well installation.

OPERATOR: Rockwell (EM)

LOGGED: J. Sullivan
CASING: HWT to 4m

BOREHOLE LOG

CLIENT: Abadeen
PROJECT: Proposed Development
LOCATION: 494-516 Military Road, Mosman, NSW 2088

SURFACE LEVEL: 86.6 AHD
COORDINATE: E:336525.9, N:6255827.2
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: BH105
PROJECT No: 240782.00
DATE: 13/03/26
SHEET: 3 of 3

CONDITIONS ENCOUNTERED																			SAMPLE			TESTING			
GROUNDWATER	RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	SOIL STRENGTH (where encountered)	SOIL MOISTURE	GRAPHIC	WEATH.	DEPTH (m)	ESTIMATED STRENGTH	RECOVERY (%)	RQD	FRACTURE SPACING (mm)	DEFECTS & REMARKS	SAMPLE REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS	BACKFILL	WELL PIPE				
	10.00		SANDSTONE: pale grey, medium to coarse grained. Hawkesbury Sandstone.																						
	7.6																								
	11																								
	7.5																								
	12																								
	7.4																								
	13																								
	7.3																								
	14																								
	7.2																								
	15																								
	7.1																								
	16																								
	7.0																								
	17																								
	6.9																								
	18																								
	6.8																								
	19																								
	6.7																								
	14.90																								
											</														

NOTES: #Soil origin is "probable" unless otherwise stated.

PLANT: Hanjin D&B8
METHOD: AD/T to 4.7m, then NMLC to 14.9m
REMARKS: Hole reamed to HQ diameter for well installation.

OPERATOR: Rockwell (EM)

LOGGED: J. Sullivan
CASING: HWT to 4m

Refer to explanatory notes for symbol and abbreviation definitions



CORE PHOTO LOG

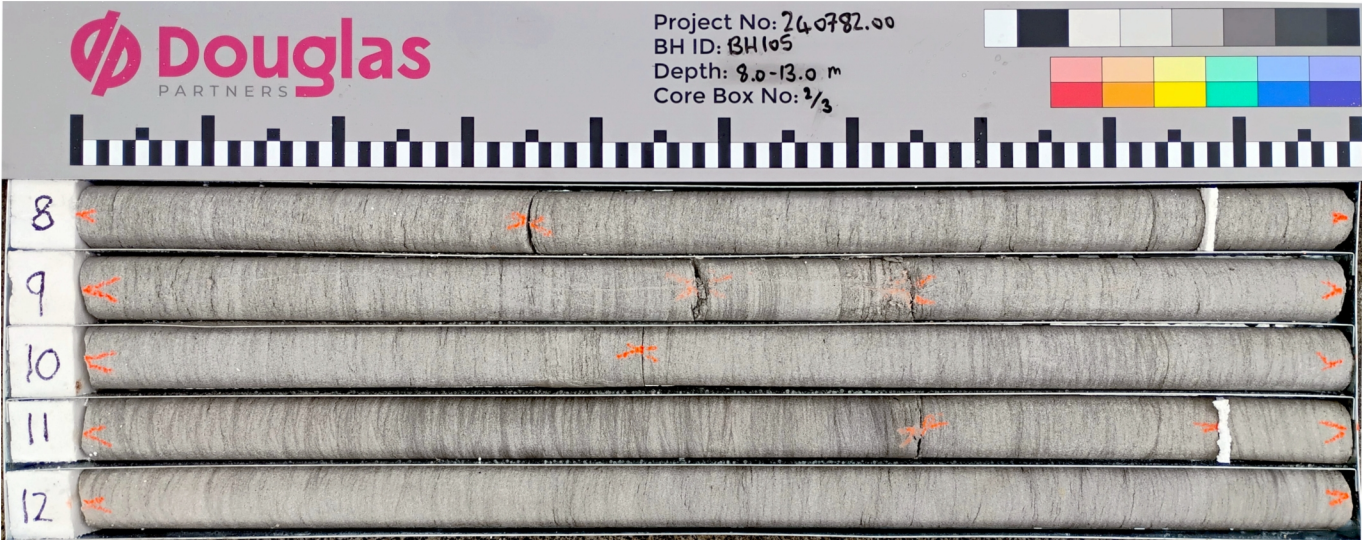
CLIENT: Abadeen
PROJECT: Proposed Development
LOCATION: 494-516 Military Road, Mosman, NSW 2088

SURFACE LEVEL: 86.6 AHD
COORDINATE: E:336525.9, N:6255827.2
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: BH105
PROJECT No: 240782.00
DATE: 13/03/26
SHEET: 1 of 2



4.70-8.00 m depth



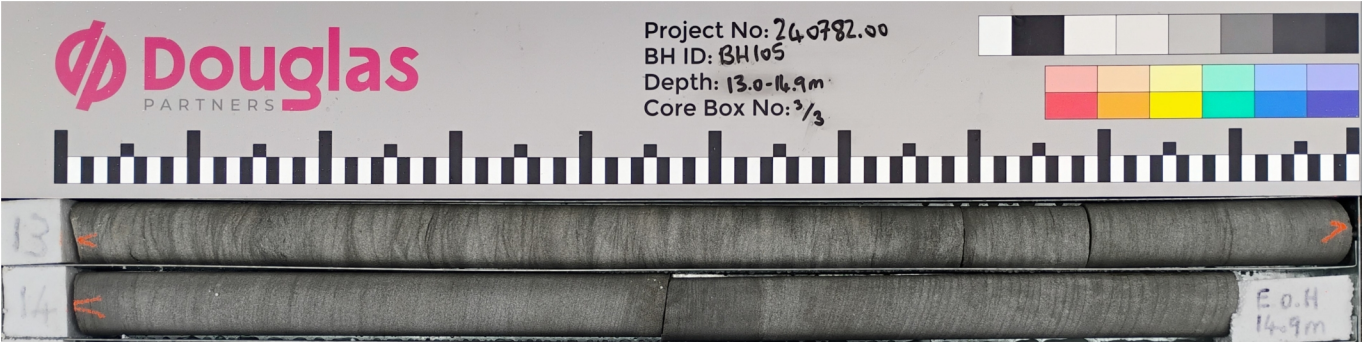
8.00-13.00 m depth

CORE PHOTO LOG

CLIENT: Abadeen
PROJECT: Proposed Development
LOCATION: 494-516 Military Road, Mosman, NSW 2088

SURFACE LEVEL: 86.6 AHD
COORDINATE: E:336525.9, N:6255827.2
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: BH105
PROJECT No: 240782.00
DATE: 13/03/26
SHEET: 2 of 2



13.00-14.90 m depth

BOREHOLE LOG

CLIENT: Abadeen
PROJECT: Proposed Development
LOCATION: 494-516 Military Road, Mosman, NSW 2088

SURFACE LEVEL: 86.8 AHD
COORDINATE: E:336591.3, N:6255870.4
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: BH106
PROJECT No: 240782.00
DATE: 12/03/26
SHEET: 1 of 4

CONDITIONS ENCOUNTERED						SAMPLE			TESTING AND REMARKS							
GROUNDWATER	RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN (#)	CONSIS. ^(*)	DENSITY ^(*)	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS	BACKFILL	WELL PIPE
12/03/26 86 85 84 83 82 81 80 79 78 77		0.12	CONCRETE.		NA	NA	NA			D	0.10 0.20				Concrete	
			FILL / Sandy GRAVEL trace clay; fine to coarse, igneous and sandstone; fine to coarse sand; trace brick fragments.					M		D	0.40 0.50					
		1	From 1.00m: Hydrocarbon odour		FILL	PC		W		D	0.90 1.00					
										SPT			SPT	1,1,1 N=2		
										D	1.40 1.60					
		1.60	CLAY (CI-CH) trace sand: pale grey; medium to high plasticity; fine sand; trace roots, hydrocarbon odour.							D	1.90 2.00					
		2														
					RS	VSt		w=PL		SPT	2.50 2.95		SPT	5,8,15 N=23		
		3														
			4.00	CLAY (CI-CH) trace sand: grey; medium to high plasticity; fine sand; trace very low strength sandstone bands.						SPT	4.00 4.45		SPT	15,21,25 N=46		
		5			XWM	H		w<PL								
		5.60	Continued as rock log							SPT	5.53		SPT	7/30mm		
		6														
		7														
		8														
		9														

NOTES: ^(*)Soil origin is "probable" unless otherwise stated. ^(*)Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

NOTES: #Soil origin is "probable" unless otherwise stated. °Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: Hanjin D&B8
METHOD: AD/T to 5.6m, then NMLC to 20m
REMARKS: Hole reamed to HQ diameter for well installation.

OPERATOR: Rockwell (EM)

LOGGED: J. Sullivan
CASING: HWT to 5.5m

Refer to explanatory notes for symbol and abbreviation definitions

BOREHOLE LOG

CLIENT: Abadeen
PROJECT: Proposed Development
LOCATION: 494-516 Military Road, Mosman, NSW 2088

SURFACE LEVEL: 86.8 AHD
COORDINATE: E:336591.3, N:6255870.4
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: BH106
PROJECT No: 240782.00
DATE: 12/03/26
SHEET: 2 of 4

CONDITIONS ENCOUNTERED													SAMPLE			TESTING					
GROUNDWATER	RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	SOIL STRENGTH (where encountered)	SOIL MOISTURE	GRAPHIC	WEATH.	DEPTH (m)	ESTIMATED STRENGTH	RECOVERY (%)	RQD	FRACTURE SPACING (mm)	DEFECTS & REMARKS	SAMPLE REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS	BACKFILL	WELL PIPE
	86.8	1																			
	85.8	2																			
	84.8	3																			
	83.8	4																			
	82.8	5																			
	81.8	6	Continued from soil log SANDSTONE: pale red-grey, medium to coarse grained. Hawkesbury Sandstone.																		
	80.8	7	From 6.40m: Red-grey																		
	79.8	8	From 7.35m: pale grey																		
	78.8	9																			
	77.8																				

12/03/26

86

85

84

83

82

81

80

79

78

77

1

2

3

4

5

6

7

8

9

Continued from soil log

SANDSTONE: pale red-grey, medium to coarse grained. Hawkesbury Sandstone.

From 6.40m: Red-grey

From 7.35m: pale grey

RS

XW

MW

SW

FR

WEATH.

W

H

M

L

VH

EH

DEPTH (m)

5.60

7.15

7.32

9.39

ESTIMATED STRENGTH

M + H

SEAM

M

RECOVERY (%)

100

100

100

RQD

80

96

92

FRACTURE SPACING (mm)

20

40

60

80

100

DEFECTS & REMARKS

5.60m: EW, 30mm

5.66m: B, 5°, CU, CN, RF

5.72m: B, 5°, PR, CN, RF

6.00m: B, 5°, PR, CN, RF

6.11m: B, 0°, PR, CN, RF

6.16m: EW, 10mm

6.28m: B, 10°, PR, CN, RF

7.04m: B, 15°, PR, SN Fe, RF

7.15-7.32m: EW

7.36m: B, 5°, CU, CN, RF

8.46-8.79m: B x4, 0-5°, PR, CN, RF

9.39m: B, 0°, PR, Clay 1mm, RF

9.50m: B, 0°, PR, CN, RF

9.87m: EW, 40mm

SAMPLE REMARKS

TYPE

INTERVAL

DEPTH (m)

1

2

3

4

5

6

7

8

9

TEST TYPE

PLT

PLT

PLT

PLT

PLT

RESULTS AND REMARKS

PL(A)=0.84MPa

PL(A)=1.0MPa

PL(A)=0.60MPa

PL(A)=0.50MPa

PL(A)=0.67MPa

BACKFILL

Concrete

Backfill

Backfill

Backfill

Backfill

WELL PIPE

NOTES: [#]Soil origin is "probable" unless otherwise stated.

PLANT: Hanjin D&B8
METHOD: AD/T to 5.6m, then NMLC to 20m
REMARKS: Hole reamed to HQ diameter for well installation.

OPERATOR: Rockwell (EM)
LOGGED: J. Sullivan
CASING: HWT to 5.5m



Refer to explanatory notes for symbol and abbreviation definitions

BOREHOLE LOG

CLIENT: Abadeen
PROJECT: Proposed Development
LOCATION: 494-516 Military Road, Mosman, NSW 2088

SURFACE LEVEL: 86.8 AHD
COORDINATE: E:336591.3, N:6255870.4
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: BH106
PROJECT No: 240782.00
DATE: 12/03/26
SHEET: 3 of 4

CONDITIONS ENCOUNTERED											SAMPLE			TESTING										
GROUNDWATER	DEPTH (m)		DESCRIPTION OF STRATA	GRAPHIC	WEATH.	DEPTH (m)	ESTIMATED STRENGTH	RECOVERY (%)	RQD	FRACTURE SPACING (mm)	DEFECTS & REMARKS	SAMPLE REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS	BACKFILL	WELL PIPE					
RL (m)	DEPTH (m)																							
	10.00		SANDSTONE: pale grey, medium to coarse grained. Hawkesbury Sandstone.		PS XW HW LW SW FR	VL L M H VH EH	10.00	92	20 100 300 1000	9.98m: EW, 20mm 10.22m: B, 0°, PR, CN, RF 10.30m: EW, 10mm 10.71-10.76m: EW 10.95m: B, 0°, PR, CN, RF 12.34-12.57m: B x2, 5°, PR, CN, RF 12.67m: B, 5°, PR, VNR Clay, RF 12.96m: EW, 10mm 13.93m: B, 0°, PR, VNR Clay, RF 15.18-15.21m: B x2, 0°, PR, CN, RF 15.24m: EW, 5mm 17.27-17.78m: B x3, 0-5°, PR, CN, RF 17.59m: EW, 10mm 18.40m: JT, 35°, PR, CN, RF 19.05m: B, 0°, PR, VNR Clay, RF 19.52m: B, 0°, PR, Clay 1mm, RF 19.57m: B, 0°, PR, VNR Clay, RF				PLT	PL(A)=0.35MPa									
76	11	10.71																100	92	10.71-10.76m: EW	PLT	PL(A)=0.35MPa	Backfill	Well pipe
75	12	10.95																100	99	12.34-12.57m: B x2, 5°, PR, CN, RF	PLT	PL(A)=0.51MPa	Backfill	Well pipe
74	13	12.96																100	99	12.96m: EW, 10mm	PLT	PL(A)=0.72MPa	Backfill	Well pipe
73	14	13.93																100	99	13.93m: B, 0°, PR, VNR Clay, RF	PLT	PL(A)=0.64MPa	Backfill	Well pipe
72	15	15.18																100	98	15.18-15.21m: B x2, 0°, PR, CN, RF	PLT	PL(A)=1.2MPa	Backfill	Well pipe
71	16	17.27																100	98	17.27-17.78m: B x3, 0-5°, PR, CN, RF	PLT	PL(A)=1.3MPa	Backfill	Well pipe
70	17	18.40																100	97	18.40m: JT, 35°, PR, CN, RF	PLT	PL(A)=1.6MPa	Backfill	Well pipe
69	18	19.05																100	97	19.05m: B, 0°, PR, VNR Clay, RF	PLT	PL(A)=1.7MPa	Backfill	Well pipe
68	19	19.52																100	97	19.52m: B, 0°, PR, Clay 1mm, RF	PLT	PL(A)=1.2MPa	Backfill	Well pipe
67	20	19.57																100	97	19.57m: B, 0°, PR, VNR Clay, RF	PLT	PL(A)=1.2MPa	Backfill	Well pipe

NOTES: ¹Soil origin is "probable" unless otherwise stated.

PLANT: Hanjin D&B8

OPERATOR: Rockwell (EM)

LOGGED: J. Sullivan

METHOD: AD/T to 5.6m, then NMLC to 20m

CASING: HWT to 5.5m

REMARKS: Hole reamed to HQ diameter for well installation.

Generated with CORE-GS by Geroc - Split Soil-Rock Log

Refer to explanatory notes for symbol and abbreviation definitions



BOREHOLE LOG

CLIENT: Abadeen

PROJECT: Proposed Development

LOCATION: 494-516 Military Road, Mosman, NSW 2088

SURFACE LEVEL: 86.8 AHD

COORDINATE: E:336591.3, N:6255870.4

DATUM/GRID: MGA2020 Zone 56

DIP/AZIMUTH: 90°/---°

LOCATION ID: BH106

PROJECT No: 240782.00

DATE: 12/03/26

SHEET: 4 of 4

CONDITIONS ENCOUNTERED														SAMPLE			TESTING				
GROUNDWATER	RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	SOIL STRENGTH (where encountered) SOIL MOISTURE		GRAPHIC	WEATH.	DEPTH (m)	ESTIMATED STRENGTH	RECOVERY (%)	RQD	FRACTURE SPACING (mm)	DEFECTS & REMARKS	SAMPLE REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS	BACKFILL	WELL PIPE

NOTES: #Soil origin is "probable" unless otherwise stated.

PLANT: Hanjin D&B8

METHOD: AD/T to 5.6m, then NMLC to 20m

REMARKS: Hole reamed to HQ diameter for well installation.

OPERATOR: Rockwell (EM)

CASING: HWT to 5.5m

LOGGED: J. Sullivan

Refer to explanatory notes for symbol and abbreviation definitions



CORE PHOTO LOG

CLIENT: Abadeen
PROJECT: Proposed Development
LOCATION: 494-516 Military Road, Mosman, NSW 2088

SURFACE LEVEL: 86.8 AHD
COORDINATE: E:336591.3, N:6255870.4
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: BH106
PROJECT No: 240782.00
DATE: 12/03/26
SHEET: 1 of 2



5.60-10.00 m depth



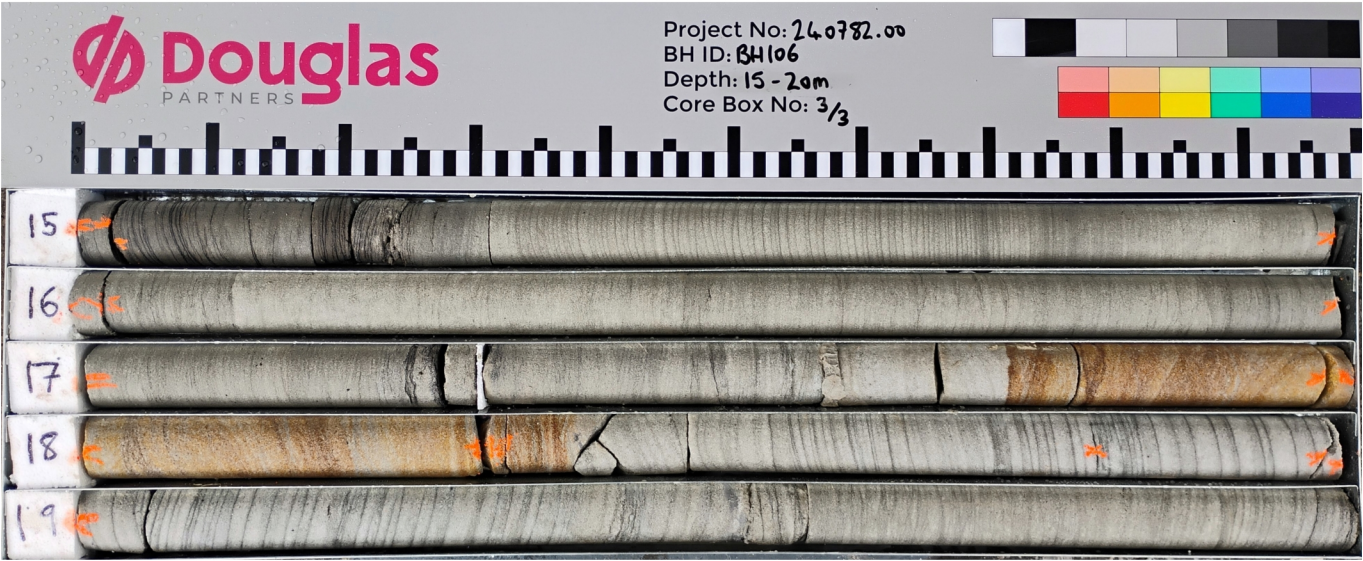
10.00-15.00 m depth

CORE PHOTO LOG

CLIENT: Abadeen
PROJECT: Proposed Development
LOCATION: 494-516 Military Road, Mosman, NSW 2088

SURFACE LEVEL: 86.8 AHD
COORDINATE: E:336591.3, N:6255870.4
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: BH106
PROJECT No: 240782.00
DATE: 12/03/26
SHEET: 2 of 2



15.00-20.00 m depth

BOREHOLE LOG

CLIENT: Abadeen
PROJECT: Proposed Development
LOCATION: 494-516 Military Road, Mosman, NSW 2088

SURFACE LEVEL: 87.9 AHD
COORDINATE: E:336566.2, N:6255881.6
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: BH107
PROJECT No: 240782.00
DATE: 16/03/26
SHEET: 1 of 3

GROUNDWATER	CONDITIONS ENCOUNTERED						SAMPLE			TESTING AND REMARKS						
	RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN (#)	CONSIS. (°) DENSITY (°)	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS	BACKFILL	WELL PIPE	
16/03/26 No free groundwater observed whilst augering	0.05		ASPHALT.		FILL	(PC)	M		D	0.05						
	0.30		FILL / Gravelly SAND trace silt: brown; fine to medium; fine to medium, igneous gravel.		FILL				D	0.40						
	0.50		FILL / CLAY trace sand trace gravel: orange-brown and brown; medium to high plasticity; fine to medium sand; fine, igneous and ironstone gravel.						D	0.90						
	1		CLAY (CI-CH) trace gravel: orange-brown; medium to high plasticity; fine, ironstone gravel.		RS		w=PL		SPT	1.25		SPT	5,7,10 N=17			
	2								D	1.50						
	2.10		Silty CLAY (CI-CH) trace sand trace gravel: pale grey; medium to high plasticity; fine sand; fine, ironstone gravel.			VSt					2					
	3				RS		w<PL		SPT	2.50		SPT	5,5,16 N=21			
	4.00		CLAY (CI-CH) trace sand trace gravel: dark red-brown; medium to high plasticity; fine sand; fine to medium, ironstone gravel; trace very low to low strength sandstone bands.		XWM	VSt - H			SPT	4.00		SPT	25/100mm (HB)			
	4.28		Continued as rock log								4.10					
	5										5					
										6						
										7						
										8						
										9						

NOTES: #Soil origin is "probable" unless otherwise stated. °Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: Massenza MI3
METHOD: AD/T to 4.1m, then HQ3 to 15m
REMARKS: Hole reamed to HQ diameter for well installation.

OPERATOR: Stratacore (SS)

LOGGED: D. Keeling
CASING: HWT to 4.1m

Refer to explanatory notes for symbol and abbreviation definitions

BOREHOLE LOG

CLIENT: Abadeen
PROJECT: Proposed Development
LOCATION: 494-516 Military Road, Mosman, NSW 2088

SURFACE LEVEL: 87.9 AHD
COORDINATE: E:336566.2, N:6255881.6
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: BH107
PROJECT No: 240782.00
DATE: 16/03/26
SHEET: 2 of 3

CONDITIONS ENCOUNTERED															SAMPLE			TESTING			
GROUNDWATER																					
RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	SOIL STRENGTH (N/mm²) SOIL MOISTURE (%)	GRAPHIC	WEATH.					RECOVERY (%)	RQD	FRACTURE SPACING (mm)	DEFECTS & REMARKS	SAMPLE REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS	BACKFILL	WELL PIPE
					PS	XW	HW	DW	LW												
16/03/26 No free groundwater observed whilst augering																					
B7	1																				
B6	2																				
B5	3																				
B4	4	Continued from soil log																			
		SANDSTONE: dark red-brown, medium to coarse grained. Hawkesbury Sandstone.																			
B3	5	5.06m-6.00m: red-brown and orange-brown																			
B2	6																				
B1	7																				
B0	8	From 7.89m: pale grey-brown																			
F9	9																				
F8																					
NOTES: ■ Soil origin is "probable" unless otherwise stated.																					

PLANT: Massenza MI3
METHOD: AD/T to 4.1m, then HQ3 to 15m
REMARKS: Hole reamed to HQ diameter for well installation.

OPERATOR: Stratacore (SS)

LOGGED: D. Keeling
CASING: HWT to 4.1m

Refer to explanatory notes for symbol and abbreviation definitions



BOREHOLE LOG

CLIENT: Abadeen
PROJECT: Proposed Development
LOCATION: 494-516 Military Road, Mosman, NSW 2088

SURFACE LEVEL: 87.9 AHD
COORDINATE: E:336556.2, N:6255881.6
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: BH107
PROJECT No: 240782.00
DATE: 16/03/26
SHEET: 3 of 3

CONDITIONS ENCOUNTERED											SAMPLE			TESTING							
GROUNDWATER	RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	SOIL STRENGTH (Where encountered) SOIL MOISTURE	GRAPHIC	WEATH.	DEPTH (m)	ESTIMATED STRENGTH	RECOVERY (%)	RQD	FRACTURE SPACING (mm)	DEFECTS & REMARKS	SAMPLE REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS	BACKFILL	WELL PIPE	
		10.00	SANDSTONE: pale grey-brown, medium to coarse grained. Hawkesbury Sandstone. From 10.67m: pale grey			SW		L				10.23m: B, 0°, UN, VNR CBS, RF 10.28m: JT, 20°, PR, VNR CBS, RF 10.30m: B, 0°, PR, VNR CBS, RF 10.47m: B, 0°, PR, VNR CBS, RF					PLT	PL(A)=0.26MPa			
	77	11									100	95	11.38m: DS, 40mm					PLT			PL(A)=0.52MPa
	76	12					FR		M									PLT			PL(A)=0.31MPa
	75	13											12.77m: B, 0°, PR, Clay 5mm, RF 12.84m: B, 0°, PR, Clay 4mm, RF					PLT			PL(A)=0.62MPa
	74	14					XW	13.66 13.74	SEAM		100	92	SEAM	13.50m: B, 0°, PR, VNR Clay, RF 13.66-13.74m: EW 13.96m: B, 10°, PR, VNR Clay, RF 14.43m: B, 10°, UN, Clay 3mm, RF 14.72m: JT, 45°, UN, CN, RF 14.80m: B, 2°, UN, Clay 2mm, RF				PLT			PL(A)=0.70MPa
	73	15	Borehole discontinued at 15.00m depth. Target depth reached.			FR		M									PLT	PL(A)=0.45MPa			
	72	16																			
	71	17																			
	70	18																			
	69	19																			
	68																				

NOTES: [#]Soil origin is "probable" unless otherwise stated.

NOTES: #Soil origin is "probable" unless otherwise stated.

PLANT: Massenza MI3
METHOD: AD/T to 4.1m, then HQ3 to 15m
REMARKS: Hole reamed to HQ diameter for well installation.

OPERATOR: Stratacore (SS)

LOGGED: D. Keeling
CASING: HWT to 4.1m

Refer to explanatory notes for symbol and abbreviation definitions



CORE PHOTO LOG

CLIENT: Abadeen
PROJECT: Proposed Development
LOCATION: 494-516 Military Road, Mosman, NSW 2088

SURFACE LEVEL: 87.9 AHD
COORDINATE: E:336566.2, N:6255881.6
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: BH107
PROJECT No: 240782.00
DATE: 16/03/26
SHEET: 1 of 2



4.10-7.00 m depth



7.00-11.00 m depth

CORE PHOTO LOG

CLIENT: Abadeen
PROJECT: Proposed Development
LOCATION: 494-516 Military Road, Mosman, NSW 2088

SURFACE LEVEL: 87.9 AHD
COORDINATE: E:336566.2, N:6255881.6
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: BH107
PROJECT No: 240782.00
DATE: 16/03/26
SHEET: 2 of 2



11.00-15.00 m depth

Introduction to Terminology, Symbols and Abbreviations

Douglas Partners' reports, investigation logs, and other correspondence may use terminology which has quantitative or qualitative connotations. To remove ambiguity or uncertainty surrounding the use of such terms, the following sets of notes pages may be attached Douglas Partners' reports, depending on the work performed and conditions encountered:

- Soil Descriptions;
- Rock Descriptions; and
- Sampling, insitu testing, and drilling methodologies

In addition to these pages, the following notes generally apply to most documents.

Abbreviation Codes

Site conditions may also be presented in a number of different formats, such as investigation logs, field mapping, or as a written summary. In some of these formats textual or symbolic terminology may be presented using textual abbreviation codes or graphic symbols, and, where commonly used, these are listed alongside the terminology definition. For ease of identification in these note pages, textual codes are presented in these notes in the following style **XW**. Code usage conforms with the following guidelines:

- Textual codes are case insensitive, although herein they are generally presented in upper case; and
- Textual codes are contextual (i.e. the same or similar combinations of characters may be used in different contexts with different meanings (for example `PL` is used for plastic limit in the context of soil moisture condition, as well as in `PL(A)` for point load test result in the testing results column)).

Data Integrity Codes

Subsurface investigation data recorded by Douglas Partners is generally managed in a highly structured database environment, where records "span" between a top and bottom depth interval. Depth interval "gaps" between records are considered to introduce ambiguity, and, where appropriate, our practice guidelines may require contiguous data sets. Recording meaningful data is not always appropriate (for example assigning a "strength" to a concrete pavement) and the following codes may be used to maintain contiguity in such circumstances.

Term	Description	Abbreviation Code
Core loss	No core recovery	KL
Unknown	Information was not available to allow classification of the property. For example, when auguring in loose, saturated sand auger cuttings may not be returned.	UK
No data	Information required to allow classification of the property was not available. For example if drilling is commenced from the base of a hole predrilled by others	ND
Not Applicable	Derivation of the properties not appropriate or beyond the scope of the investigation. For example providing a description of the strength of a concrete pavement	NA

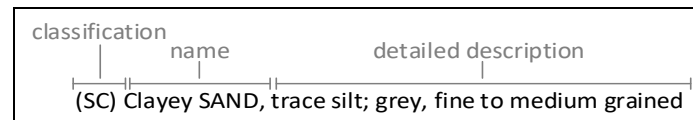
Graphic Symbols

Douglas Partners' logs contain a "graphic" column which provides a pictorial representation of the basic composition of the material. The symbols used are directly representing the material name stated in the adjacent "Description of Strata" column, and as such no specific graphic symbology legend has been provided in these notes.

intentionally blank

Introduction

All materials which are not considered to be “in-situ rock” are described in general accordance with the soil description model of AS 1726-2017 Part 6.1.3, and can be broken down into the following description structure:



The “classification” comprises a two character “group symbol” providing a general summary of dominant soil characteristics. The “name” summarises the particle sizes within the soil which most influence its behaviour. The detailed description presents more information about composition, condition, structure, and origin of the soil.

Classification, naming and description of soils require the relative proportion of particles of different sizes within the whole soil mixture to be considered.

Particle size designation and Behaviour Model

Solid particles within a soil are differentiated on the basis of size.

The engineering behaviour properties of a soil can subsequently be modelled to be either “fine grained” (also known as “cohesive” behaviour) or “coarse grained” (“non cohesive” behaviour), depending on the relative proportion of fine or coarse fractions in the soil mixture.

Particle Size Designation	Particle Size (mm)	Behaviour Model	
		Behaviour	Approximate Dry Mass
Boulder	>200	Excluded from particle behaviour model as “oversize”	
Cobble	63 - 200		
Gravel ¹	2.36 - 63	Coarse	>65%
Sand ¹	0.075 - 2.36		
Silt	0.002 - 0.075	Fine	>35%
Clay	<0.002		

¹ – refer grain size subdivision descriptions below

The behaviour model boundaries defined above are not precise, and the material behaviour should be assumed from the name given to the material (which considers the particle fraction which dominates the behaviour, refer “component proportions” below), rather than strict observance of the proportions of particle sizes. For example, if a material is named a “Sandy CLAY”, this is indicative that the material exhibits fine grained behaviour, even if the dry mass of coarse grained material may exceed 65%.

Component proportions

The relative proportion of the dry mass of each particle size fraction is assessed to be a “primary”, “secondary”, or “minor” component of the soil mixture, depending on its influence over the soil behaviour.

Component Proportion Designation	Definition ¹	Relative Proportion	
		In Fine Grained Soil	In Coarse Grained Soil
Primary	The component (particle size designation, refer above) which dominates the engineering behaviour of the soil	The clay/silt component with the greater proportion	The sand/gravel component with the greater proportion
Secondary	Any component which is not the primary, but is significant to the engineering properties of the soil	Any component with greater than 30% proportion	Any granular component with greater than 30%; or Any fine component with greater than 12%
Minor ²	Present in the soil, but not significant to its engineering properties	All other components	All other components

¹ As defined in AS1726-2017 6.1.4.4

² In the detailed material description, minor components are split into two further sub-categories. Refer “identification of minor components” below.

Composite Materials

In certain situations, a lithology description may describe more than one material, for example, collectively describing a layer of interbedded sand and clay. In such a scenario, the two materials would be described independently, with the names preceded or followed by a statement describing the arrangement by which the materials co-exist. For example, “INTERBEDDED Silty CLAY AND SAND”.

Classification

The soil classification comprises a two character group symbol. The first character identifies the primary component. The second character identifies either the grading or presence of fines in a coarse grained soil, or the plasticity in a fine grained soil. Refer AS1726-2017 6.1.6 for further clarification.

Soil Name

For most soils, the name is derived with the primary component included as the noun (in upper case), preceded by any secondary components stated in an adjective form. In this way, the soil name also describes the general composition and indicates the dominant behaviour of the material.

Component ¹	Prominence in Soil Name
Primary	Noun (eg "CLAY")
Secondary	Adjective modifier (eg "Sandy")
Minor	No influence

¹ – for determination of component proportions, refer component proportions on previous page

For materials which cannot be disaggregated, or which are not comprised of rock or mineral fragments, the names "ORGANIC MATTER" or "ARTIFICIAL MATERIAL" may be used, in accordance with AS1726-2017 Table 14.

Commercial or colloquial names are not used for the soil name where a component derived name is possible (for example "Gravelly SAND" rather than "CRACKER DUST").

Materials of "fill" or "topsoil" origin are generally assigned a name derived from the primary/secondary component (where appropriate). In log descriptions this is preceded by uppercase "FILL" or "TOPSOIL". Origin uncertainty is indicated in the description by the characters (?), with the degree of uncertainty described (using the terms "probably" or "possibly" in the origin column, or at the end of the description).

Identification of minor components

Minor components are identified in the soil description immediately following the soil name. The minor component fraction is usually preceded with a term indicating the relative proportion of the component.

Minor Component Proportion Term	Relative Proportion	
	In Fine Grained Soil	In Coarse Grained Soil
With	All fractions: 15-30%	Clay/silt: 5-12% sand/gravel: 15-30%
Trace	All fractions: 0-15%	Clay/silt: 0-5% sand/gravel: 0-15%

The terms "with" and "trace" generally apply only to gravel or fine particle fractions. Where cobbles/boulders are encountered in minor proportions (generally less than about 12%) the term "occasional" may be used. This term describes the sporadic distribution of the material within the confines of the investigation excavation only, and there may be considerable variation in proportion over a wider area which is difficult to factually characterise due to the relative size of the particles and the investigation methods.

Soil Composition

Plasticity

Descriptive Term	Laboratory liquid limit range	
	Silt	Clay
Non-plastic materials	Not applicable	Not applicable
Low plasticity	≤50	≤35
Medium plasticity	Not applicable	>35 and ≤50
High plasticity	>50	>50

Note, Plasticity descriptions generally describe the plasticity behaviour of the whole of the fine grained soil, not individual fine grained fractions.

Grain Size

Type	Particle size (mm)	
	Gravel	Sand
Gravel	Coarse	19 - 63
	Medium	6.7 - 19
	Fine	2.36 - 6.7
Sand	Coarse	0.6 - 2.36
	Medium	0.21 - 0.6
	Fine	0.075 - 0.21

Grading

Grading Term	Particle size (mm)
Well	A good representation of all particle sizes
Poorly	An excess or deficiency of particular sizes within the specified range
Uniformly	Essentially of one size
Gap	A deficiency of a particular size or size range within the total range

Note, AS1726-2017 provides terminology for additional attributes not listed here.

Soil Condition

Moisture

The moisture condition of soils is assessed relative to the plastic limit for fine grained soils, while for coarse grained soils it is assessed based on the appearance and feel of the material. The moisture condition of a material is considered to be independent of stratigraphy (although commonly these are related), and this data is presented in its own column on logs.

Applicability	Term	Tactile Assessment	Abbreviation code
Fine	Dry of plastic limit	Hard and friable or powdery	w<PL
	Near plastic limit	Can be moulded	w=PL
	Wet of plastic limit	Water residue remains on hands when handling	w>PL
	Near liquid limit	"oozes" when agitated	w=LL
	Wet of liquid limit	"oozes"	w>LL
Coarse	Dry	Non-cohesive and free running	D
	Moist	Feels cool, darkened in colour, particles may stick together	M
	Wet	Feels cool, darkened in colour, particles may stick together, free water forms when handling	W

The abbreviation code **NDF**, meaning "not-assessable due to drilling fluid use" may also be used.

Note, observations relating to free ground water or drilling fluids are provided independent of soil moisture condition.

Consistency/Density/Compaction/Cementation/Extremely Weathered Material

These concepts give an indication of how the material may respond to applied forces (when considered in conjunction with other attributes of the soil). This behaviour can vary independent of the composition of the material, and on logs these are described in an independent column and are generally mutually exclusive (i.e it is inappropriate to describe both consistency and compaction at the same time). The method by which the behaviour is described depends on the behaviour model and other characteristics of the soil as follows:

- In fine grained soils, the "consistency" describes the ease with which the soil can be remoulded, and is generally correlated against the materials undrained shear strength;
- In granular materials, the relative density describes how tightly packed the particles are, and is generally correlated against the density index;
- In anthropogenically modified materials, the compaction of the material is described qualitatively;
- In cemented soils (both natural and anthropogenic), the cemented "strength" is described qualitatively, relative to the difficulty with which the material is disaggregated; and
- In soils of extremely weathered material origin, the engineering behaviour may be governed by relic rock features, and expected behaviour needs to be assessed based the overall material description.

Quantitative engineering performance of these materials may be determined by laboratory testing or estimated by correlated field tests (for example penetration or shear vane testing). In some cases, performance may be assessed by tactile or other subjective methods, in which case investigation logs will show the estimated value enclosed in round brackets, for example (VS).

Consistency (fine grained soils)

Consistency Term	Tactile Assessment	Undrained Shear Strength (kPa)	Abbreviation Code
Very soft	Extrudes between fingers when squeezed	<12	VS
Soft	Mouldable with light finger pressure	>12 - ≤25	S
Firm	Mouldable with strong finger pressure	>25 - ≤50	F
Stiff	Cannot be moulded by fingers	>50 - ≤100	St
Very stiff	Indented by thumbnail	>100 - ≤200	VSt
Hard	Indented by thumbnail with difficulty	>200	H
Friable	Easily crumbled or broken into small pieces by hand	-	Fr

Relative Density (coarse grained soils)

Relative Density Term	Density Index	Abbreviation Code
Very loose	<15	VL
Loose	>15 - ≤35	L
Medium dense	>35 - ≤65	MD
Dense	>65 - ≤85	D
Very dense	>85	VD

Note, tactile assessment of relative density is difficult, and generally requires penetration testing, hence a tactile assessment guide is not provided.

Compaction (anthropogenically modified soil)

Compaction Term	Abbreviation Code
Well compacted	WC
Poorly compacted	PC
Moderately compacted	MC
Variably compacted	VC

Cementation (natural and anthropogenic)

Cementation Term	Abbreviation Code
Moderately cemented	MOD
Weakly cemented	WEK

Extremely Weathered Material

AS1726-2017 considers weathered material to be soil if the unconfined compressive strength is less than 0.6 MPa (i.e. less than very low strength rock). These materials may be identified as “extremely weathered material” in reports and by the abbreviation code **XWM** on log sheets. This identification is not correlated to any specific qualitative or quantitative behaviour, and the engineering properties of this material must therefore be assessed according to engineering principles with reference to any relic rock structure, fabric, or texture described in the description.

Soil Origin

Term	Description	Abbreviation Code
Residual	Derived from in-situ weathering of the underlying rock	RS
Extremely weathered material	Formed from in-situ weathering of geological formations. Has strength of less than ‘very low’ as per as1726 but retains the structure or fabric of the parent rock.	XWM
Alluvial	Deposited by streams and rivers	ALV
Fluvial	Deposited by channel fill and overbank (natural levee, crevasse splay or flood basin)	FLV
Estuarine	Deposited in coastal estuaries	EST
Marine	Deposited in a marine environment	MAR
Lacustrine	Deposited in freshwater lakes	LAC
Aeolian	Carried and deposited by wind	AEO
Colluvial	Soil and rock debris transported down slopes by gravity	COL
Slopewash	Thin layers of soil and rock debris gradually and slowly deposited by gravity and possibly water	SW
Topsoil	Mantle of surface soil, often with high levels of organic material	TOP
Fill	Any material which has been moved by man	FILL
Littoral	Deposited on the lake or seashore	LIT
Unidentifiable	Not able to be identified	UID

Cobbles and Boulders

The presence of particles considered to be “oversize” may be described using one of the following strategies:

- Oversize encountered in a minor proportion (when considered relative to the wider area) are noted in the soil description; or
- Where a significant proportion of oversize is encountered, the cobbles/boulders are described independent of the soil description, in a similar manner to composite soils (described above) but qualified with “MIXTURE OF”.

intentionally blank

Rock Strength

Rock strength is defined by the unconfined compressive strength, and it refers to the strength of the rock substance and not the strength of the overall rock mass, which may be considerably weaker due to defects.

The Point Load Strength Index $I_{s(50)}$ is commonly used to provide an estimate of the rock strength and site specific correlations should be developed to allow UCS values to be determined. The point load strength test procedure is described by Australian Standard AS4133.4.1-2007. The terms used to describe rock strength are as follows:

Strength Term	Unconfined Compressive Strength (MPa)	Point Load Index ¹ $I_{s(50)}$ MPa	Abbreviation Code
Very low	0.6 - 2	0.03 - 0.1	VL
Low	2 - 6	0.1 - 0.3	L
Medium	6 - 20	0.3 - 1.0	M
High	20 - 60	1 - 3	H
Very high	60 - 200	3 - 10	VH
Extremely high	>200	>10	EH

¹ Rock strength classification is based on UCS. The UCS to $I_{s(50)}$ ratio varies significantly for different rock types and specific ratios may be required for each site. The point load Index ranges shown above are as suggested in AS1726 and should not be relied upon without supporting evidence.

The following abbreviation codes are used for soil layers or seams of material “within rock” but for which the equivalent UCS strength is less than 0.6 MPa.

Scenario	Abbreviation Code
The material encountered has an equivalent UCS strength of less than 0.6 MPa, and therefore is considered to be soil (as per Note 1 of Table 20 of AS 1726-2017). The properties of the material encountered over this interval are described in the “Description of Strata” and soil properties columns.	SOIL
The material encountered has an equivalent UCS strength of less than 0.6 MPa, and therefore is considered to be soil (as per Note 1 of Table 20 of AS 1726-2017). The prominence of the material is such that it can be considered to be a seam (as defined in Table 22 of AS1726-2017) and the properties of the material are described in the defect column.	SEAM

Degree of Weathering

The degree of weathering of rock is classified as follows:

Weathering Term	Description	Abbreviation Code
Residual Soil ¹	Material is weathered to such an extent that it has soil properties. Mass structure and material texture and fabric of original rock are no longer visible, but the soil has not been significantly transported.	RS
Extremely weathered ¹	Material is weathered to such an extent that it has soil properties. Mass structure and material texture and fabric of original rock are still visible	XW
Highly weathered	The whole of the rock material is discoloured, usually by iron staining or bleaching to the extent that the colour of the original rock is not recognisable. Rock strength is significantly changed by weathering. Some primary minerals have weathered to clay minerals. Porosity may be increased by leaching or may be decreased due to deposition of weathering products in pores.	HW
Moderately weathered	The whole of the rock material is discoloured, usually by iron staining or bleaching to the extent that the colour of the original rock is not recognisable but shows little or no change of strength from fresh rock.	MW
Slightly weathered	Rock is partially discoloured with staining or bleaching along joints but shows little or no change of strength from fresh rock.	SW
Fresh	No signs of decomposition or staining.	FR
Note: If HW and MW cannot be differentiated use DW (see below)		
Distinctly weathered	Rock strength usually changed by weathering. The rock may be highly discoloured, usually by iron staining. Porosity may be increased by leaching or may be decreased due to deposition of weathered products in pores.	DW

¹ The parent rock type, of which the residual/extremely weathered material is a derivative, will be stated in the description (where discernible).

Degree of Alteration

The degree of alteration of the rock material (physical or chemical changes caused by hot gasses or liquids at depth) is classified as follows:

Term	Description	Abbreviation Code
Extremely altered	Material is altered to such an extent that it has soil properties. Mass structure and material texture and fabric of original rock are still visible.	XA
Highly altered	The whole of the rock material is discoloured, usually by staining or bleaching to the extent that the colour of the original rock is not recognisable. Rock strength is changed by alteration. Some primary minerals are altered to clay minerals. Porosity may be increased by leaching or may be decreased due to precipitation of secondary materials in pores.	HA
Moderately altered	The whole of the rock material is discoloured, usually by staining or bleaching to the extent that the colour of the original rock is not recognisable but shows little or no change of strength from fresh rock.	MA
Slightly altered	Rock is slightly discoloured but shows little or no change of strength from fresh rock	SA
Note: If HA and MA cannot be differentiated use DA (see below)		
Distinctly altered	Rock strength usually changed by alteration. The rock may be highly discoloured, usually by staining or bleaching. Porosity may be increased by leaching or may be decreased due to precipitation of secondary minerals in pores.	DA

Degree of Fracturing

The following descriptive classification apply to the spacing of natural occurring fractures in the rock mass. It includes bedding plane partings, joints and other defects, but excludes drilling breaks. These terms are generally not required on investigation logs where fracture spacing is presented as a histogram, and where used are presented in an unabbreviated format.

Term	Description
Fragmented	Fragments of <20 mm
Highly Fractured	Core lengths of 20-40 mm with occasional fragments
Fractured	Core lengths of 30-100 mm with occasional shorter and longer sections
Slightly Fractured	Core lengths of 300 mm or longer with occasional sections of 100-300 mm
Unbroken	Core contains very few fractures

Rock Quality Designation

The quality of the cored rock can be measured using the Rock Quality Designation (RQD) index, defined as:

$$RQD \% = \frac{\text{cumulative length of 'sound' core sections} > 100 \text{ mm long}}{\text{total drilled length of section being assessed}}$$

where 'sound' rock is assessed to be rock of low strength or stronger. The RQD applies only to natural fractures. If the core is broken by drilling or handling (i.e., drilling breaks) then the broken pieces are fitted back together and are not included in the calculation of RQD.

Stratification Spacing

These terms may be used to describe the spacing of bedding partings in sedimentary rocks. Where used, these terms are generally presented in an unabbreviated format

Term	Separation of Stratification Planes
Thinly laminated	< 6 mm
Laminated	6 mm to 20 mm
Very thinly bedded	20 mm to 60 mm
Thinly bedded	60 mm to 0.2 m
Medium bedded	0.2 m to 0.6 m
Thickly bedded	0.6 m to 2 m
Very thickly bedded	> 2 m

Rock Descriptions

Terminology
Symbols
Abbreviations

Defect Descriptions

Defect Type

Term	Abbreviation Code
Bedding plane	B
Cleavage	CL
Crushed seam	CS
Crushed zone	CZ
Drilling break	DB
Decomposed seam	DS
Drill lift	DL
Extremely Weathered seam	EW
Fault	F
Fracture	FC
Fragmented	FG
Handling break	HB
Infilled seam	IS
Joint	JT
Lamination	LAM
Shear seam	SS
Shear zone	SZ
Vein	VN
Mechanical break	MB
Parting	P
Sheared Surface	S

Rock Defect Orientation

Term	Abbreviation Code
Horizontal	H
Vertical	V
Sub-horizontal	SH
Sub-vertical	SV

Rock Defect Coating

Term	Abbreviation Code
Clean	CN
Coating	CT
Healed	HE
Infilled	INF
Stained	SN
Tight	TI
Veneer	VNR

Rock Defect Infill

Term	Abbreviation Code
Calcite	CA
Carbonaceous	CBS
Clay	CLAY
Iron oxide	FE
Manganese	MN
Pyrite	Py
Secondary material	MS
Silt	M
Quartz	Qz
Unidentified material	MU

Rock Defect Shape/Planarity

Term	Abbreviation Code
Curved	CU
Discontinuous	DIS
Irregular	IR
Planar	PR
Stepped	ST
Undulating	UN

Rock Defect Roughness

Term	Abbreviation Code
Polished	PO
Rough	RF
Smooth	SM
Slickensided	SL
Very rough	VR

Defect Orientation

The inclination of defects is always measured from the perpendicular to the core axis.

intentionally blank

Sampling and Testing

A record of samples retained, and field testing performed is usually shown on a Douglas Partners' log with samples appearing to the left of a depth scale, and selected field and laboratory testing (including results, where relevant) appearing to the right of the scale, as illustrated below:

SAMPLE			DEPTH (m)	TESTING	
SAMPLE REMARKS	TYPE	INTERVAL		TEST TYPE	RESULTS AND REMARKS
	SPT		1.0 1.45	SPT	4,9,11 N=20

Sampling

The type or intended purpose for which a sample was taken is indicated by the following abbreviation codes.

Sample Type	Code
Auger sample	A
Acid Sulfate sample	ASS
Bulk sample	B
Core sample	C
Disturbed sample	D
Environmental sample	ES
Driven Tube sample	DT
Gas sample	G
Piston sample	P
Sample from SPT test	SPT
Undisturbed tube sample	U ¹
Water sample	W
Material Sample	MT
Core sample for unconfined compressive strength testing	UCS

¹ – numeric suffixes indicate tube diameter/width in mm

The above codes only indicate that a sample was retained, and not that testing was scheduled or performed.

Field and Laboratory Testing

A record that field and laboratory testing was performed is indicated by the following abbreviation codes.

Test Type	Code
Pocket penetrometer (kPa)	PP
Photo ionisation detector (ppm)	PID
Standard Penetration Test x/y = x blows for y mm penetration HB = hammer bouncing HW = fell under weight of hammer	SPT
Shear vane (kPa)	V
Unconfined compressive strength, (MPa)	UCS
Point load test, (MPa), axial (A), diametric (D), irregular (I)	PLT(-)
Dynamic cone penetrometer, followed by blow count penetration increment in mm (cone tip, generally in accordance with AS1289.6.3.2)	DCP9/150
Perth sand penetrometer, followed by blow count penetration increment in mm (flat tip, generally in accordance with AS1289.6.3.3)	PSP/150
Dynamic probe super heavy, followed by blow count penetration increment in mm	DPSH/100

Groundwater Observations

	water seepage/inflow
	water seepage/outflow
	standing or observed water level
NFGWO	no free groundwater observed
OBS	observations obscured by drilling fluids

Drilling or Excavation Methods/Tools

The drilling/excavation methods used to perform the investigation may be shown either in a dedicated column down the left-hand edge of the log, or stated in the log footer. In some circumstances abbreviation codes may be used.

Method	Abbreviation Code
Direct Push	DP
Solid flight auger. Suffixes: /T = tungsten carbide tip, /V = v-shaped tip	AD ¹
Air Track	AT
Diatube	DT ¹
Hand auger	HA ¹
Hand tools (unspecified)	HAND
Existing exposure	X
Hollow flight auger	HSA ¹
HQ coring	HQ3
HMLC series coring	HMLC
NMLC series coring	NMLC
NQ coring	NQ3
PQ coring	PQ3
Predrilled	PD
Push tube	PT ¹
Ripping tyne/ripper	R
Rock roller	RR ¹
Rock breaker/hydraulic hammer	EH
Sonic drilling	SON ¹
Mud/blade bucket	MB ¹
Toothed bucket	TB ¹
Vibrocore	VC ¹
Vacuum excavation	VE
Wash bore (unspecified bit type)	WB ¹

¹ – numeric suffixes indicate tool diameter/width in mm

Appendix E

Data Quality Objectives

1. Data quality objectives

The DSI has been devised broadly in accordance with the seven-step data quality objectives (DQO) process which is provided in Appendix B, Schedule B2 of NEPC *National Environment Protection (Assessment of Site Contamination) Measure 1999 (as amended 2013)* [NEPM] (NEPC, 2013).

The further data gap investigations and validation assessment will be conducted with reference to the seven step data quality objectives process (DQO) as outlined in NEPC (2013), described below.

1.1 Data gap investigations

Table 1: Data quality objectives

Step	Summary
1: State the problem	The objectives of the data gap investigations are to: - Assess the contamination status of the site with respect to the proposed development and assess whether further investigation and/or management of contamination is required. - Assess the potential for contamination migration off-site. The investigation is being undertaken as the site is proposed to be redeveloped for a mixed-use development (residential B and commercial / industrial land use). A conceptual site model (CSM) has been prepared (Section 6) for the proposed development. The project team consist of experienced environmental engineers and scientists working in the roles of Project Principal, Project Reviewer, Project Manager and field staff.
2: Identify the decisions / goal of the study	The site history has identified possible contaminating previous uses which are identified in the CSM (Section 6). The CSM identifies the associated contaminants of potential concern (CoPC) and the likely impacted media. The site assessment criteria (SAC) for each of the CoPC are detailed in Appendix F. The decision is to establish whether or not the results fall below the SAC or whether or not the 95% upper confidence limit of the arithmetic mean of the sample population falls below the SAC. On this basis, an assessment of the site's suitability from a contamination perspective will be derived and a decision made on whether (or not) further assessment and/or remediation will be required.
3: Identify the information inputs	Inputs will be the analytical results for the CoPC and media (identified in the CSM, Section 6) from NATA accredited laboratories and methods, where possible. The SAC for each of the CoPC are detailed in Appendix F. Field results and observations such as photoionisation detector (PID) and asbestos sieve results and observations of building debris, ash, odours, staining etc will be used to inform sample selection for laboratory analysis.

Step	Summary
4: Define the study boundaries	The lateral boundaries of the investigation area are shown on Drawing 6, Appendix A1. The vertical boundaries are to the extent of contamination impact as determined from the site history assessment, previous investigations and site observations. The assessment is limited to the timeframe over which the field works were undertaken.
5: Develop the analytical approach (or decision rule)	The decision rule is to compare all analytical results with the SAC (Appendix F, based on NEPC (2013)). Where guideline values are absent, other sources of guideline values accepted by NEPC (2013) shall be adopted where available and warranted. Where a sample result exceeds the adopted criterion, a further qualitative site-specific assessment will be made as to the risk posed by the presence of that contaminant(s). Initial comparisons will be with individual results then, where appropriate, summary statistics (including mean, standard deviation and 95% upper confidence limit (UCL) of the arithmetic mean (95% UCL)) to further assess potential risks posed by the site contamination. Quality control results are to be assessed according to their relative percent difference (RPD) values. For field duplicates, triplicates and laboratory results, RPD values should generally be below 30%; for field blanks and rinsates, results should be at or less than the limits of reporting (NEPC, 2013). The field and laboratory quality assurance assessment requirements are outlined in Section 14. Further site specific SAC may be developed as part of the further data gap investigations, particularly with respect to risk assessments / modelling that may be carried out.
6: Specify the performance or acceptance criteria	Baseline condition: Contaminants at the site and/or statistical analysis of data (in line with NEPC (2013)) exceed the human health and environmental SAC and/or further risk assessment demonstrates contaminants pose a potentially unacceptable risk to receptors (null hypothesis). Alternative condition: Contaminants at the site and statistical analysis of data (in line with NEPC (2013)) comply with the human health and environmental SAC and/or risk assessment demonstrates contaminants do not pose a potentially unacceptable risk to receptors (alternative hypothesis). Unless conclusive information from the collected data is sufficient to reject the null hypothesis, it will be assumed that the baseline condition is true. Uncertainty that may exist due to the above potential decision errors shall be mitigated as follows: - As well as a primary screening exercise, the use of the 95% UCL as per NEPC (2013) may be applied, i.e. 95% is the defined confidence level associated with the UCL on the geometric mean for contaminant data. The resultant 95% UCL shall subsequently be screened against the corresponding SAC. - The statistical assessment will only be able to be applied to certain data-sets, such as those obtained via systematic sampling. Identification of areas for targeted sampling will be via professional judgement and errors will not be able to have a probability assigned to them.

Step	Summary
	- Interpreting results with reference to the CSM, field observations and known data gaps. - Further risk assessment / modelling may be carried out to determine site specific assessment criteria.
7: Optimise the design for obtaining data	As the purpose of the investigation is to assess the contamination status of the site, the sampling program is reliant on professional judgement to identify and sample the potentially affected areas. Further details regarding the sampling plan are in Section 7.

1.2 Validation Assessment

Table 2: Data quality objectives for Validation of Remediation

Step	Summary
1: State the problem	The site requires remediation and validation of remediation in order to render it suitable for the proposed mixed use commercial and residential development. The objective of the validation plan is to confirm the successful implementation of this remediation action plan. A CSM for the proposed development has been prepared (Section 6).
2: Identify the decisions / goal of the study	The CSM identifies the CoPC and the likely impacted media. The CoPC identified to require remediation comprise: - Remediation Area 1: UPSS (decommissioned) infrastructure and associated soils buried on site. - Remediation Area 2: Exceedances of human health SAC within the proposed basement excavation. The validation sampling results will be compared against the RAC. The preferred remediation strategy as outlined in the RAP are listed below: - Remediation Area 1 and Remediation Area 2: Excavation and offsite disposal. The success of the remediation and subsequent validation will be based on a comparison of the analytical results for all CoPC to the adopted RAC. A number of contingency plans for potential remediation have been identified in Appendix G. Should the contingency plans require to be followed out, this DQO is to be revised accordingly.
3: Identify the information inputs	Relevant inputs to the decision include: - The CSM, identifying the CoPC and affected media. - Analysis for the relevant CoPC using NATA accredited laboratories and methods, where possible. - Field and laboratory QA/QC data to assess the suitability of the environmental data for the validation assessment. - Results compared with the RAC. - Risk assessment / seepage modelling.

Step	Summary
	A photoionisation detector (PID) to screen soils on site for VOC. PID readings will be used to inform sample selection for laboratory analysis.
4: Define the study boundaries	The lateral boundaries of the site are shown on Drawing 6, Appendix A1. The vertical boundaries are to the extent of contamination impact as determined from the site history assessment, site observations and previous investigations used to inform the RAP.
5: Develop the analytical approach (or decision rule)	The decision rule is to compare all analytical results with the RAC. Initial comparisons will be with individual results then, where appropriate, summary statistics (including mean, standard deviation and 95% UCL), to further assess potential risks posed by the site contamination. Quality control results are to be assessed according to their relative percent difference (RPD) values. For field and laboratory duplicate results, RPDs should generally be below 30%; for field blanks, results should be at or less than the limits of reporting (NEPC, 2013). The field and laboratory quality assurance assessment requirements are included in Section 14.
6: Specify the performance or acceptance criteria	Baseline condition: Contaminants at the site and/or statistical analysis of data exceed the RAC and pose a potentially unacceptable risk to receptors (null hypothesis). Alternative condition: Contaminants at the site and statistical analysis of data complies with the RAC and therefore, do not pose a potentially unacceptable risk to receptors (alternative hypothesis). Unless conclusive information from the collected data is sufficient to reject the null hypothesis, it will be assumed that the baseline condition is true.
7: Optimise the design for obtaining data	Sampling design and procedures to be implemented to optimise data collection for achieving the DQO include the following: - Sampling frequencies in accordance with Section 12.4. - Analysis for the CoPC at NATA accredited laboratories using NATA endorsed methods where possible. - Adequately experienced environmental scientists / engineers conducting field work and sample analysis interpretation.

2. References

NEPC. (2013). *National Environment Protection (Assessment of Site Contamination) Measure 1999 (as amended 2013) [NEPM]*. Australian Government Publishing Services Canberra: National Environment Protection Council.

Appendix F

Site Assessment Criteria

1. Introduction

1.1 Guidelines

The following key guidelines were consulted for deriving the site assessment criteria (SAC):

- NEPC *National Environment Protection (Assessment of Site Contamination) Measure 1999 (as amended 2013) [NEPM]* (NEPC, 2013).
- CRC CARE *Health screening levels for petroleum hydrocarbons in soil and groundwater* (CRC CARE, 2011).
- HEPA *PFAS National Environmental Management Plan (NEMP)* (HEPA, 2025).
- ANZG *Australian and New Zealand Guidelines for Fresh and Marine Water Quality* (ANZG, 2018).
- NHMRC *Guidelines for Managing Risks In Recreational Water* (NHMRC, 2008).
- NHMRC, NRMCC *Australian Drinking Water Guidelines 6 2011, Version. 4.0 June 2025* (NHMRC, NRMCC, 2025).
- ANZECC *Australian and New Zealand Guidelines for Fresh and Marine Water Quality* (ANZECC, 2000).

1.2 General

The SAC applied in the current investigation are informed by the CSM which identified human and environmental receptors to potential contamination at the site. Analytical results are assessed (as a Tier 1 assessment) against the SAC comprising primarily the investigation and screening levels of Schedule B1 of NEPC (2013).

The following inputs are relevant to the selection and/or derivation of the SAC:

- Land use: residential B.
 - o Corresponding to land use category 'B', residential with minimal opportunities for soil access includes dwellings with fully and permanently paved yard space such as high-rise buildings and flats.
 - o In regard to vapour intrusion for the health screening levels:
 - Areas where the proposed development includes a basement and/or retail properties (i.e. commercial land use) on the ground floor, have been screened against health screening levels (HSL) for a commercial land use scenario (HSL-D) in line with NEPC (2013) recommendations. This area is shown on Drawing 1, Appendix A1. Where the ground floor comprises of residential / communal garden space, these areas were screened against HSL -B.
- Soil type: clay (fine grained soil).

2. Soils

2.1 Health investigation and screening levels

The generic health investigation levels (HIL) and health screening levels (HSL) are considered to be appropriate for the assessment of human health risk via all relevant pathways of exposure associated with contamination at the site. The adopted soil HIL and HSL for the contaminants of concern are in Table 1 and Table 2.

Table 1: Health investigation levels (mg/kg)

Contaminant	HIL-B
Metals	
Arsenic	500
Cadmium	150
Chromium (VI)	500
Copper	30 000
Lead	1200
Mercury (inorganic)	120
Nickel	1200
Zinc	60 000
PAH	
B(a)P TEQ	4
Total PAH	400
Phenols	
Phenol	45 000
Pentachlorophenol	130
OCP	
DDT+DDE+DDD	600
Aldrin and dieldrin	10
Chlordane	90
Endosulfan	400
Endrin	20
Heptachlor	10
HCB	15
Methoxychlor	500

Contaminant	HIL-B
OPP	
Chlorpyrifos	340
PCB	
PCB	7

Table 2: Health screening levels (mg/kg)

Contaminant	HSL-A/B	HSL-D
CLAY	0 m to <1 m	0 m to <1 m
Benzene	0.7	4
Toluene	480	NL
Ethylbenzene	NL	NL
Xylenes	110	NL
Naphthalene	5	NL
TRH F1	50	310
TRH F2	280	NL

Notes: TRH F1 is TRH C₆-C₁₀ minus BTEX

TRH F2 is TRH >C₁₀-C₁₆ minus naphthalene

The soil saturation concentration (C_{sat}) is defined as the soil concentration at which the porewater phase cannot dissolve any more of an individual chemical. The soil vapour that is in equilibrium with the porewater will be at its maximum. If the derived soil HSL exceeds C_{sat}, a soil vapour source concentration for a petroleum mixture could not exceed a level that would result in the maximum allowable vapour risk for the given scenario. For these scenarios, no HSL is presented for these chemicals and the HSL is shown as 'not limiting' or 'NL'

The HSL for direct contact derived from CRC CARE (2011) are in Table 3.

Table 3: Health screening levels for direct contact (mg/kg)

Contaminant	DC HSL-B	DC HSL-IMW
Benzene	140	1100
Toluene	21 000	120 000
Ethylbenzene	5900	85 000
Xylenes	17 000	130 000
Naphthalene	2200	29 000
TRH F1	5600	82 000
TRH F2	4200	62 000
TRH F3	5800	85 000
TRH F4	8100	120 000

Notes: TRH F1 is TRH C₆-C₁₀ minus BTEX

TRH F2 is TRH >C₁₀-C₁₆ minus naphthalene

IMW intrusive maintenance worker

2.2 Health investigation levels for per- and poly-fluoroalkyl substances in soil

The laboratory analytical results for per- and poly-fluoroalkyl substances (PFAS) in soil have been assessed against HIL published in HEPA (2025). The HIL represent a nationally-agreed suite that should be used to inform site investigations. The HIL are intentionally conservative, and an exceedance of these criteria may not constitute a risk if other exposure pathways are controlled. An exceedance of the HIL should trigger further investigations, such as a site-specific risk assessment. At the time of this investigation, screening values were available only for perfluorooctane sulfonate (PFOS), perfluorooctanoic acid (PFOA) and perfluorohexane sulfonate (PFHxS).

The HIL derived from Table 5 of HEPA (2025) are in Table 4.

Table 4: Health investigation levels (mg/kg)

Contaminant	HIL-B
PFOS and PFHxS *	2
PFOA	20

Notes: * Includes PFOS only, PFHxS only and the sum of the two.

2.3 Asbestos in soil

Based on the current site access limitations, a detailed asbestos assessment was able to be carried out at this stage. However, due to the history of widespread use of ACM products across Australia, ACM can be encountered unexpectedly and sporadically at a site. Therefore, the presence or absence of asbestos at a limit of reporting of 0.1 g/kg (AS:4964) has been adopted for this investigation / assessment as an initial screen.

For future investigations where a detailed asbestos assessment can be carried out, the HSL for asbestos in soil that is to be adopted is based on likely exposure levels for different scenarios published in NEPC (2013) for the following forms of asbestos:

- Bonded asbestos containing material (ACM).
- Fibrous asbestos and asbestos fines (FA and AF).

The HSL are in Table 5.

Table 5: Health screening levels for asbestos

Form of asbestos	HSL-B
ACM	0.04%
FA and AF	0.001%
FA and AF and ACM	No visible asbestos for surface soil *

Notes: Surface soils defined as top 10 cm.

* Based on site observations at the sampling points and the analytical results of surface samples.

Where insufficient sample recovery is possible for FA and AF analysis the presence or absence of asbestos at a limit of reporting of 0.1 g/kg (AS:4964) will be adopted for the assessment as an initial screen.

2.4 Ecological investigation levels

Ecological investigation levels (EIL) and added contaminant limits (ACL), where appropriate, have been derived in NEPC (2013) for arsenic, copper, chromium (III), nickel, lead, zinc, DDT and naphthalene. The adopted EIL, derived using the interactive (excel) calculation spreadsheet on the NEPM toolbox website are shown in Table 7, with inputs into their derivation shown in Table 6.

It is noted that ecological criteria are only to be applied in areas outside of the proposed basement footprint where soils may remain within the upper 2 m of soil.

Table 6: Inputs to the derivation of the ecological investigation levels

Variable	Input	Rationale
Age of contaminants	"Aged" (>2 years)	Known based off-site history
pH	8.15	Calculated averages based of ELS Report 404878
CEC	7.15 cmol _e /kg	
Clay content	10%	Assumed based off site observations and intrusive sampling
Traffic volumes	High	Known based of site use and history
State / Territory	NSW	Known based on site location

Table 7: Ecological investigation levels (mg/kg)

Contaminant	EIL-A-B-C
Metals	
Arsenic	100
Copper	160
Nickel	80
Chromium III	410
Lead	1100
Zinc	430
PAH	
Naphthalene	170
OCP	
DDT	180

Notes:

EIL-A-B-C urban residential and public open space

2.5 Ecological screening levels

Ecological screening levels (ESL) are used to assess the risk of selected petroleum hydrocarbon compounds, BTEX and benzo(a)pyrene to terrestrial ecosystems. The adopted ESL are shown in Table 8.

It is noted that ecological criteria are only to be applied in areas outside of the proposed basement footprint where soils may remain within the upper 2 m of soil.

Table 8: Ecological screening levels (mg/kg)

Contaminant	Soil type	ESL-A-B-C
Benzene	Fine	65
Toluene	Fine	105
Ethylbenzene	Fine	125
Xylenes	Fine	45
TRH F1	Coarse/ Fine	180*
TRH F2	Coarse/ Fine	120*
TRH F3	Fine	1300
TRH F4	Fine	5600
B(a)P	Fine	0.7

Notes: ESL are of low reliability except where indicated by * which indicates that the ESL is of moderate reliability

TRH F1 is TRH C₆-C₁₀ minus BTEX

TRH F2 is TRH >C₁₀-C₁₆ including naphthalene

ESL-A-B-C urban residential and public open space

2.6 Ecological soil guideline values

The interim ecological soil guideline values (EGV) derived from Table 6 of HEPA (2025) are in Table 9.

In regard to PFOS indirect exposure, a higher value has been adopted in consideration of the proposed development will result in majority of the site covered in a basement and there will not be a material impact on the food chain via indirect exposure from the remaining soils.

It is noted that ecological criteria are only to be applied in areas outside of the proposed basement footprint where soils may remain within the upper 2 m of soil.

Table 9: Ecological soil guideline values (mg/kg) – all land uses

Contaminant	Direct exposure	Indirect exposure
PFOS	1	0.14 *
PFOA	10	0.003
PFHxS	NC	NC

Notes: NC no criterion

*For intensely developed sites with no secondary consumers and minimal potential for indirect ecological exposure, a higher criterion of up to 0.14 mg/kg PFOS may be appropriate.

2.7 Management limits

In addition to appropriate consideration and application of the HSL and ESL, there are additional considerations which reflect the nature and properties of petroleum hydrocarbons, including:

- Formation of observable light non-aqueous phase liquids (LNAPL).
- Fire and explosion hazards.
- Effects on buried infrastructure e.g. penetration of, or damage to, in-ground services.

The adopted management limits are in Table 10.

Table 10: Management limits (mg/kg)

Contaminant	Soil type	ML-A-B-C
TRH F1	Fine	800
TRH F2	Fine	1000
TRH F3	Fine	3500
TRH F4	Fine	10 000

Notes: TRH F1 is TRH C₆-C₁₀ including BTEX
TRH F2 is TRH >C₁₀-C₁₆ including naphthalene
ML-A-B-C residential, parkland and public open space

3. Soil vapour

3.1 Interim soil vapour health investigation levels

Soil vapour interim HIL for specific chlorinated VOC were published by NEPC (2013) to assess the vapour intrusion exposure pathway.

The interim HIL for chlorinated VOC methodology employs a simple though conservative approach using an attenuation factor that relates the concentration of a volatile contaminant in indoor air to the concentration in soil gas immediately below a building foundation slab.

The interim health investigation levels (IHIL) derived from NEPC (2013) are in Table 11.

Table 11: Soil vapour interim health investigation levels, chlorinated hydrocarbons (µg/m³)

Chemical	IHIL-A&B	IHIL-D
Trichloroethene (TCE)	20	80
1,1,1-trichloroethane (1,1,1-TCA)	60 000	230 000
Tetrachloroethene (PCE)	2000	8000
Cis-1,2-dichloroethene (cis-DCE)	80	300
Chloromethane / vinyl chloride (VC)	30	100

3.2 Health screening levels

Soil vapour HSL for petroleum hydrocarbons were published by NEPC (2013) to assess the vapour intrusion exposure pathway.

The HSL derived from NEPC (2013) are in Table 12.

Table 12: Soil vapour health screening levels for vapour intrusion ($\mu\text{g}/\text{m}^3$)

Contaminant	HSL-A&B	HSL-A&B	HSL-D	HSL-D
CLAY	0-1 m	1-2 m	0-1 m	1-2 m
Benzene	1000	15 000	5000	80 000
Toluene	1 600 000	23 000 000	6 500 000	100 000 000
Ethylbenzene	420 000	6 800 000	1 800 000	31 000 000
Xylene Total	280 000	4 800 000	1 200 000	21 000 000
Naphthalene	1000	20 000	4000	85 000
TRH F1	230 000	4 200 000	1 000 000	19 000 000
TRH F2	180 000	3 800 000	800 000	NL

Notes: TRH F1 is TRH C₆-C₁₀ minus BTEX

TRH F2 is TRH >C₁₀-C₁₆ minus naphthalene

The maximum possible soil vapour concentrations have been calculated based on vapour pressures of the pure chemicals. Where soil vapour HSL exceed these values, a soil-specific source concentration for a petroleum mixture could not exceed a level that would result in the maximum allowable vapour risk for the given scenario. For these scenarios, no HSL is presented for these chemicals and the HSL is shown as 'not limiting' or 'NL'

4. Groundwater

4.1 Introduction

The groundwater investigation levels (GIL) used for interpretation of the groundwater data (as a Tier 1 assessment) have been selected based on the potential risks posed from contamination sourced from the site to receptors at or down-gradient of the site, as identified by the conceptual site model (CSM). The receptors, exposure points and pathways are summarised in Table 13.

Table 13: Summary of potential receptors and potential risks

Receptor	Location	Exposure point	Exposure pathway
Surface water aquatic ecosystem	Down-gradient from site.	Receiving surface water body (Mosman Bay then Sydney Harbour) at the groundwater discharge point.	Exposure to contaminants.
Occupants of buildings	On site and down-gradient from site.	Enclosed buildings (existing or proposed).	Inhalation of VOC (including TRH and BTEX) overlying VOC impacted groundwater via the vapour intrusion pathway.

Receptor	Location	Exposure point	Exposure pathway
Human recreation (e.g. swimming)	Down-gradient from site.	Receiving surface water body (Mosman Bay then Sydney Harbour) at the groundwater discharge point.	Ingestion / dermal absorption of contaminants during recreational activities (e.g. swimming / boating / fishing).

The rationale for the selection of GIL is in Table 14.

Table 14: Groundwater investigation level rationale

Receptor / beneficial use	GIL	Source	Comments / rationale
Aquatic ecosystem	DGV	ANZG (2018)	Fresh (Non perennial Creeks) and Marine (Mosman Bay / Sydney Harbour) 99% LOP for bioaccumulative contaminants 95% LOP for non-bioaccumulative contaminants
	GV	HEPA (2025)	Fresh (Non perennial Creeks) and Marine (Mosman Bay / Sydney Harbour) 99% LOP for bioaccumulative contaminants
Building occupants (vapour intrusion)	HSL	NEPC (2013)	Groundwater levels measured between 1 m bgl and 5.51 m bgl indicating groundwater is likely to be in contact with the basement. As such, HSL do not apply and the laboratory PQL was used as an initial screen.
Recreational waters	GV	NHMRC (2008)	Based on the NHMRC (2025) values x10 (lower limit of recommended 10-20x) to account for ingestion of water whilst undertaking recreational activities. PFAS GV adopted as per NHMRC (2019) guidance note.

Notes:

DGV default guideline value

% LOP percentage level of protection of species

HSL health screening level

GV guideline value

4.2 Groundwater investigation levels for aquatic ecosystems

The DGV for the protection of aquatic ecosystems derived from ANZG (2018) are in Table 15.

Table 15: Groundwater investigation levels for protection of aquatic ecosystems (µg/L)

Contaminant	Marine DGV 95% LOP	Notes
Metals / metalloids		
Arsenic	24 / 13	Levels provided for As III / As IV respectively as adopted from freshwater criteria in absence of marine criteria. Unknown reliability.
Cadmium	0.7	99% LOP adopted as recommended due to potential for bioaccumulation. Very high reliability.
Chromium (III)	27	Low reliability.
Chromium (VI)	4.4	Chromium VI levels adopted as initial screen for total chromium. Very high reliability.
Copper	0.6	Very high reliability.
Iron (total)	540	Moderate reliability.
Lead	4.4	Low reliability.
Mercury (inorganic)	0.1	99% LOP adopted as recommended due to potential for bioaccumulation. Very high reliability.
Nickel	5.9	Very high reliability.
Zinc	8	Very high reliability.
BTEX		
Benzene	500	99% LOP adopted as recommended to protect key species from chronic toxicity. Moderate reliability.
Ethylbenzene	80	Unknown reliability.
m-Xylene	75	Unknown reliability.
o-xylene	350	Adopted from freshwater criteria for in absence of marine criteria. Unknown reliability.
p-Xylene	200	Adopted from freshwater criteria for in absence of marine criteria. Unknown reliability.
Toluene	180	Unknown reliability.
PAH		
Anthracene	0.01	99% LOP adopted as recommended due to potential for bioaccumulation. Unknown reliability.
Benzo(a)pyrene	0.1	99% LOP adopted as recommended due to potential for bioaccumulation. Unknown reliability.
Fluoranthene	1	99% LOP adopted as recommended due to potential for bioaccumulation. Unknown reliability.
Naphthalene	50	99% LOP adopted as recommended to protect key species from chronic toxicity. Moderate reliability.

Contaminant	Marine DGV 95% LOP	Notes
Phenanthrene	0.6	99% LOP adopted as recommended due to potential for bioaccumulation. Unknown reliability.
Phenols		
Phenol	400	Moderate reliability.
Pentachlorophenol	11	99% LOP adopted as recommended due to potential for bioaccumulation. Moderate reliability.
OCP		
Aldrin	0.003	Unknown reliability and LOP.
Chlordane	0.001	Unknown reliability and LOP.
DDT	0.0004	Unknown reliability and LOP.
Dieldrin	0.01	Freshwater criteria adopted in absence of marine criteria. Unknown reliability and LOP.
Endosulfan	0.005	99% LOP adopted as recommended due to potential for bioaccumulation. Moderate reliability.
Endrin	0.004	99% LOP adopted as recommended due to potential for bioaccumulation. Moderate reliability.
Heptachlor	0.0004	Unknown reliability and LOP.
Methoxychlor	0.004	Unknown reliability and LOP.
OPP		
Chlorpyrifos	0.009	Low reliability.
Diazinon	0.01	Freshwater criteria adopted in absence of marine criteria. Unknown reliability.
Dimethoate	0.15	Freshwater criteria adopted in absence of marine criteria. Unknown reliability.
Fenitrothion	0.001	Unknown reliability and LOP.
Malathion	0.05	Freshwater criteria adopted in absence of marine criteria. Unknown reliability.
Parathion	0.004	Freshwater criteria adopted in absence of marine criteria. Unknown reliability.
PCB		
Aroclor 1242	0.3	Adopted from freshwater criteria for in absence of marine criteria. 99% LOP adopted as recommended due to potential for bioaccumulation. Unknown reliability.
Aroclor 1254	0.01	Adopted from freshwater criteria for in absence of marine criteria. 99% LOP adopted as recommended due to potential for bioaccumulation. Unknown reliability.

Contaminant	Marine DGV 95% LOP	Notes
VOC		
Tetrachloroethene (PCE)	70	Unknown reliability.
Trichloroethene (TCE)	330	Unknown reliability.
1-1-dichloroethene (DCE)	700	Unknown reliability.
Chloroethene (vinyl chloride / VC)	100	Unknown reliability.
Tetrachloromethane (carbon tetrachloride / CT)	240	Unknown reliability.
Trichloromethane (chloroform / TCM)	370	99% LOP adopted as recommended to protect key species from chronic toxicity. Unknown reliability.
PFAS		
PFOS	0.02	99% LOP adopted as recommended to protect key species from chronic toxicity. Freshwater criteria adopted in absence of marine criteria.
PFOA	19	99% LOP adopted as recommended to protect key species from chronic toxicity. Freshwater criteria adopted in absence of marine criteria.
Inorganics		
Ammonia	910	At a receiving body pH of 8. Note: ammonia toxicity is pH and temperature dependent. Very high reliability.
Nitrate	2600	Freshwater criteria adopted in absence of marine criteria. High reliability based on assumed water hardness of between 30 – 150 mg/L CaCO ₃ based on marine receiving water body. For soft water <30 mg/L CaCO ₃ : 110 For hard water: >150 mg/L CaCO ₃ : 29000

Notes: 95% LOP for non-bioaccumulative contaminants
99% LOP for bioaccumulative contaminants

Table 16: Groundwater investigation levels for protection of aquatic ecosystems (µg/L)

Contaminant	Freshwater DGV 95% LOP	Notes
Metals / metalloids		
Arsenic	24 / 13	Levels provided for As III / As IV respectively. Moderate reliability.
Cadmium	0.2	Very high reliability.
Chromium (VI)	1	Chromium VI levels adopted as initial screen for total chromium. Very high reliability.

Contaminant	Freshwater DGV 95% LOP	Notes
Copper	1.4	Very high reliability.
Iron (total)	280	Very high reliability.
Lead	3.4	Moderate reliability.
Mercury (inorganic)	0.06	99% LOP adopted as recommended due to potential for bioaccumulation. Moderate reliability.
Nickel	11	Low reliability.
Zinc	8	Very high reliability.
BTEX		
Benzene	950	Moderate reliability.
Ethylbenzene	80	Unknown reliability.
m-Xylene	75	Unknown reliability.
o-xylene	350	Low reliability.
p-Xylene	200	Low reliability.
Toluene	180	Unknown reliability.
PAH		
Anthracene	0.01	99% LOP adopted as recommended due to potential for bioaccumulation. Unknown reliability.
Benzo(a)pyrene	0.1	99% LOP adopted as recommended due to potential for bioaccumulation. Unknown reliability.
Fluoranthene	1	99% LOP adopted as recommended due to potential for bioaccumulation. Unknown reliability.
Naphthalene	16	Low reliability.
Phenanthrene	0.6	99% LOP adopted as recommended due to potential for bioaccumulation. Unknown reliability.
Phenols		
Phenol	320	Moderate reliability.
Pentachlorophenol	3.6	99% LOP adopted as recommended due to potential for bioaccumulation. Moderate reliability.
2,4,6-Trichlorophenol	3	99% LOP adopted as recommended due to potential for bioaccumulation. Moderate reliability.
OCP		
Aldrin	0.001	Unknown reliability and LOP.
Chlordane	0.03	99% LOP adopted as recommended due to potential for bioaccumulation. Moderate reliability.

Contaminant	Freshwater DGV 95% LOP	Notes
DDT	0.006	99% LOP adopted as recommended due to potential for bioaccumulation. Moderate reliability.
Dieldrin	0.01	Unknown reliability and LOP.
Endosulfan	0.03	99% LOP adopted as recommended due to potential for bioaccumulation. Moderate reliability.
Endrin	0.01	99% LOP adopted as recommended due to potential for bioaccumulation. Moderate reliability.
Heptachlor	0.01	99% LOP adopted as recommended due to potential for bioaccumulation. Moderate reliability.
Methoxychlor	0.005	Unknown reliability and LOP.
OPP		
Chlorpyrifos	0.01	Moderate reliability.
Diazinon	0.01	Moderate reliability.
Dimethoate	0.15	Low reliability.
Fenitrothion	0.2	Moderate reliability.
Malathion	0.05	Moderate reliability.
Parathion	0.004	Moderate reliability.
PCB		
Aroclor 1242	0.3	99% LOP adopted as recommended due to potential for bioaccumulation. Low reliability.
Aroclor 1254	0.01	99% LOP adopted as recommended due to potential for bioaccumulation. Moderate reliability.
VOC		
Tetrachloroethene (PCE)	70	Unknown reliability.
Trichloroethene (TCE)	330	Unknown reliability.
cis-1,2-dichloroethene (DCE)	700	Unknown reliability.
Chloroethene (vinyl chloride / VC)	100	Unknown reliability.
Tetrachloromethane (carbon tetrachloride / CT)	240	Unknown reliability.
Trichloromethane (chloroform / TCM)	370	99% LOP adopted as recommended to protect key species from chronic toxicity. Unknown reliability.

Contaminant	Freshwater DGV 95% LOP	Notes
PFAS		
PFOS	0.02	99% LOP adopted as recommended to protect key species from chronic toxicity.
PFOA	19	99% LOP adopted as recommended to protect key species from chronic toxicity.
Inorganics		
Ammonia	720	Very high reliability for pH 7.5
Nitrate	2600	High reliability based on assumed water hardness of between 30 – 150 mg/L CaCO ₃ based on marine receiving water body. For soft water <30 mg/L CaCO ₃ : 110 For hard water: >150 mg/L CaCO ₃ : 29000

Notes: 95% LOP for non-bioaccumulative contaminants
 99% LOP for bioaccumulative contaminants

4.3 Health screening levels for vapour intrusion

The HSL to evaluate potential vapour intrusion risks derived from NEPC (2013) are in Table 17.

Groundwater levels measured between 1 m bgl and 5.51 m bgl indicating groundwater is likely to be in contact with the basement. There are no generic HSL for groundwater within 2 m of the ground (or basement) level.

As such, HSL do not apply and the laboratory PQL was used as an initial screen.

Table 17: Groundwater health screening levels for vapour intrusion (µg/L)

Contaminant	HSL-D	HSL-D	Solubility limit
CLAY	Groundwater in contact with basement – initial screen	2 m to <4 m	-
Benzene	<PQL	30 000	59 000
Toluene	<PQL	NL	61 000
Ethylbenzene	<PQL	NL	3900
Xylenes	<PQL	NL	21 000
Naphthalene	<PQL	NL	170
TRH F1	<PQL	NL	9000
TRH F2	<PQL	NL	3000

Notes: TRH F1 is TRH C₆-C₁₀ minus BTEX

TRH F2 is TRH >C₁₀-C₁₆ minus naphthalene

The solubility limit is defined as the groundwater concentration at which the water cannot dissolve any more of an individual chemical based on a petroleum mixture. The soil vapour that is in equilibrium with the groundwater will be at its maximum. If the derived groundwater HSL exceeds the water solubility limit, a soil vapour source concentration for a petroleum mixture could not exceed a level that would result in the maximum allowable vapour risk for the given scenario. For these scenarios, no HSL is presented for these chemicals and the HSL is shown as 'not limiting' or 'NL'.

4.4 Groundwater investigation levels for recreational water

The GV for recreational water derived from NHMRC (2008) are in Table 18.

Table 18: Groundwater investigation levels for protection of recreational waters (µg/L)

Contaminant	Recreational water guideline values
Metals / metalloids	
Arsenic	100
Cadmium	20
Chromium (VI)	500
Copper	20000
Lead	50
Mercury (inorganic)	10
Nickel	200
Zinc	30000 (aesthetic only)
BTEX	
Benzene	10
Ethylbenzene	3000
Xylenes	6000
Toluene	8000
PAH	
Benzo(a)pyrene	0.1
Phenols	
Pentachlorophenol	100
OCP	
Aldrin + Dieldrin	3
Chlordane	20
DDT	90
Endosulfan	200
Heptachlor	3
Lindane	100
Methoxychlor	3000
OPP	
Bromophos-ethyl	100
Chlorpyrifos	100

Contaminant	Recreational water guideline values
Diazinon	40
Dichlorvos	50
Dimethoate	70
Disulfoton	40
Ethion	40
Fenamiphos	5
Fenitrothion	70
Fenthion	70
Malathion	700
Methyl parathion	7
Methidathion	60
Mevinphos (Phosdrin)	50
Parathion	200
PFAS	
PFOA	2
PFOS	0.08
PFHxS	0.3
Perfluorobutane sulfonic acid (PFBS)	10
VOC	
Tetrachloroethene (PCE)	500
cis-1,2-dichloroethene (DCE)	600
Chloroethene (vinyl chloride / VC)	3
1,1-dichloroethene	300
Tetrachloromethane (carbon tetrachloride / CT)	30
1,2-dichloroethane	30
Hexachlorobutadiene	7
Chlorobenzene	3000
1,4-dichlorobenzene	400
1,2-dichlorobenzene	15000
Bromomethane	10
1,2-dibromomethane	10
Styrene	300

Contaminant	Recreational water guideline values
Trihalomethanes (THM) (including trichloromethane (chloroform / TCM), bromodichloromethane, dibromochloromethane and tribromomethane (bromoform))	2500
Nutrients	
Nitrate (as N)	113
Nitrite	9000
Physical properties / aesthetics	
pH	6.5-8.5 (aesthetic only)
Dissolved oxygen	>80% saturation (aesthetic only)

5. References

ANZECC. (2000). *Australian and New Zealand Guidelines for Fresh and Marine Water Quality*. Australia and New Zealand Environment and Conservation Council.

ANZG. (2018). *Australian and New Zealand Guidelines for Fresh and Marine Water Quality*. Canberra, ACT: Australian and New Zealand Governments and Australian state and territory governments.

CRC CARE. (2011). *Health screening levels for petroleum hydrocarbons in soil and groundwater*. Parts 1 to 3, Technical Report No. 10: Cooperative Research Centre for Contamination Assessment and Remediation of the Environment.

HEPA. (2025). *PFAS National Environmental Management Plan (NEMP)*. Version 3.1: Heads of EPAs Australia and New Zealand.

NEPC. (2013). *National Environment Protection (Assessment of Site Contamination) Measure 1999 (as amended 2013) [NEPM]*. Australian Government Publishing Services Canberra: National Environment Protection Council.

NHMRC. (2008). *Guidelines for Managing Risks In Recreational Water*.

NHMRC. (2019). *Guidance on Per and Polyfluoroalkyl (PFAS) in Recreational Water*. National Health and Medical Research Council.

NHMRC, NRMCC. (2025). *Australian Drinking Water Guidelines 6 2011, Version. 4.0 June 2025*. Canberra: National Health and Medical Research Council, National Resource Management Ministerial Council.

Warne, M., Batley, G., van Dam, R., Chapman, J., Fox, D., Hickey, C., & Stauber, J. (2018). *Revised Method for Deriving Australian and New Zealand Water Quality Guideline Values for Toxicants*. Canberra: Australian Government Department of Agriculture and Water Resources.

Appendix G

Contingency Plan and Unexpected Finds Protocol

1. General

Where the site conditions are found to be different than that anticipated during the remediation works, the proposed remediation approach may not be appropriate for the contamination encountered. In such cases the Environmental Consultant is to re-assess the contamination and remediation approach. Where necessary the Environmental Consultant will prepare an addendum to, or revision of, this RAP.

2. Contingency plan

2.1 General

This contingency plan has been developed to provide guidance on processes to follow if contamination (or indicators of contamination), other than that included in the remediation strategy, (Section 10) is encountered during the remediation works. Any such finds shall be surveyed and the location documented.

Although the site has been subject to previous investigations, there remains a potential for soil contamination to be present between sampled locations. In the event that signs of soil contamination, other than that included in the remediation strategy, are encountered during remediation e.g. evidence of asbestos containing material (ACM), petroleum, or other chemical odours in areas not previously identified the following protocols will apply:

- The Site Manager is to be notified and the affected area closed off by the use of barrier tape and warning signs.
- The Environmental Consultant is to be notified to inspect the area and assess the significance of the potential contamination and determine extent of remediation works (if deemed necessary) to be undertaken. An assessment report and management plan detailing this information will be compiled by the Environmental Consultant and provided to the Principal's Representative.
- The assessment results together with a suitable management plan shall be provided by the Principal's Representative to the Consent Authority (if required by the development consent) and Site Auditor (if audited).
- The agreed management / remedial strategy, based on the RAP and relevant guidelines (e.g. WA DoH (2021), for asbestos issues), shall be implemented.
- All details of the assessment and remedial works are to be included in the site validation report.

The Principal's Representative is to notify any of the authorities which the Principal is legally / contractually required to notify (e.g. EPA, Council). Where appropriate the Principals Representative will also implement appropriate community consultation.

The Environmental Consultant will assess the extent and significance of the find and develop an investigation, remediation or management approach using (where possible) the principles and procedures already outlined in the RAP.

2.2 Contingency Plan for RA1: Residual contamination impacts at the down gradient site boundary

This contingency plan covers the following scenarios:

- UPSS infrastructure is present beyond the practical limit of excavation at the time of works.
- Contamination above the adopted RAC is present in the walls / base of the excavation at the practical limit of the site.
- Contamination above the adopted RAC / expected ambient concentrations is present in the groundwater.

In the above scenarios, the following works should be undertaken:

- Assess the practicability of undertaking further excavation, including by removal of other site infrastructure and/or following backfilling of the current excavation. If further excavation prior to backfilling is found to be feasible, further excavation and validation assessment of the area of concern should be undertaken.
- If no further excavation can be undertaken, then:
 - o The extent of the excavation undertaken should be surveyed.
 - o Remnant infrastructure (if any) should be properly decommissioned.
 - o A marker layer should be placed to delineate the area of contamination (if feasible and subject to geotechnical advice). The marker layer should be approved by a suitably qualified environmental consultant.
- Undertake further investigation of the remaining infrastructure / residual contamination as required to obtain an understanding of its extent and risk. This may include:
 - o Boreholes for soil sampling, groundwater and/or soil vapour sampling and analysis beyond the extent of the excavation / basement. The locations, depth and media of the investigation should be planned by the Environmental Consultant based on the results of the validation assessment and a conceptual site model (CSM).
 - o Further investigation of the location of remaining infrastructure using intrusive or geophysical methods.
- Based on the further investigation results, the risk posed by the residual issues should be assessed, and a strategy for further remediation, investigation and/or management of the residual infrastructure / contamination should be prepared and implemented. The risk assessment may be a simple qualitative assessment or require seepage and volatile intrusion modelling, depending on the extent and significance of the remaining mass of contaminated. The strategy should be specific to the issue, and commensurate with the risk posed, and may include:
 - o Further excavation and validation assessment of the remaining infrastructure / area of residual contamination (where feasible).
 - o Use of impermeable membranes at the affected locations (such as but not limited to HDPE or spray on membranes) to prevent groundwater / soil vapour ingress into the basement. The selection of an appropriate control measure is to be determined by the Environmental Consultant in consultation with the Principal Contractor.

- o For long term use of the basement and management of potential water seepage, implementation of a groundwater seepage treatment system to manage potential ingress into the basement may be required. This is to be assessed by the Environmental Consultant in conjunction with relevant dewatering / civil contractors and the Principal Contractor.
- o Inclusion of the identified residual contamination issues in the validation report.
- o Further groundwater investigation and remediation, such as through monitored natural attenuation (MNA).
- o Preparation and implementation of a long-term environmental management plan (LTEMP) to capture the ongoing management requirements to maintain the above.

2.3 Contingency Plan for Potential RA3: Areas outside of the basement – potential capping and containment of residual soil contamination

Following the completion of data gap investigations of the areas outside of the proposed basement (i.e. the proposed deep soil zone and proposed driveway), should contamination be identified requiring remediation, the following contingency plan for capping and containing the residual contamination has been provided. This approach has been provided as these areas are not anticipated to have significant levels of excavation and will have either a hardstand or landscaping constructed which can act as a capping layer for any residual contamination.

This contingency plan covers the following scenario:

- Asbestos contamination in soils is identified and required to remain on site.
- Non leachable chemicals in soils (such as copper, lead, zinc, PCB and pesticides) noting testing is required to confirm contaminants will not leach, otherwise a different remediation strategy will be required.

Contaminated soils may be able to be capped on-site beneath a suitable physical barrier, to be managed in perpetuity under a long-term environmental management plan (LTEMP). The contaminated soil can be capped in its original location or consolidated in a containment cell.

The residual contamination impacted soils are to be capped / contained in situ, or if required, can be consolidated into a containment cell prior to capping.

The capping layer is to comprise:

- 'Soft capping' landscape / exposed soil areas: A geofabric marker layer overlain by 500 mm of 'clean' fill (meeting the requirements of Section 11) or site won material that meets the site acceptance criteria (SAC) which has been approved for use by the EC; or
- 'Hard capping' areas i.e. pavement / hardstand areas: A geofabric marker layer overlain by a pavement (base course, bitumen or concrete); or
- Other capping layer as approved by the EC (e.g. if variation to the above design).

The geofabric marker layer must (per the requirements of (WA DoH, 2021) be:

- Water permeable.
- High visibility.

- Rot-proof and chemically inert.
- High tensile strength.
- Coverage of the contaminated area and at least 0.5 m beyond boundary if practical.
- Parallel sheets and adjoining sheets to be fixed together or overlap by at least 20 cm.

The capping is to be conducted in accordance with the following general procedure:

- Construction by the Remediation Contractor of the capping layer. The construction is to follow the following process, each subject to a hold point:
 - o Hold Point No.1: Completion of Pre-Capping Earthworks:
 - Completion by the Remediation Contractor of the earthworks required to form the pre-capping site levels.
 - Removal by the Remediation Contractor of any oversized or sharp objects which could puncture the geofabric layer.
 - Inspection by the EC of the exposed ground surface. The EC is to take a photographic record of the inspection.
 - o Hold Point No. 2: Installation of Geofabric marker layer:
 - Following the installation of the geofabric marker layer the EC must complete a site inspection to confirm the installation of the geo-fabric has been completed.
 - Inspection by the EC of the exposed geofabric marker layer. The EC is to take a photographic record of the inspection.
 - Surveying by the Site Surveyor of the extent and level of the marker layer (which to the extent practical should be 0.5 m beyond the capping area), to the specification provided below.
 - o Hold Point No 3: Capping materials:
 - Provision by the Remediation Contractor to the EC documentation on the soil / rock / landscaping (including proposed base course) materials proposed to be used to form the capping layer.
 - Assessment by the EC of the documentation, and advise on the suitability (or otherwise) of the materials, and any additional assessment requirements to allow final approval for the use of the material.
 - Importation by the Remediation Contractor of Capping Soils (where applicable).
 - On-site inspection of the stockpiled capping soils (or other materials) by the EC and collection and analysis of check samples in accordance with Section 14.
 - Provision of advice by the by the EC to the Remediation Contractor on the suitability (or otherwise) of the materials, from a contamination perspective, and any additional assessment requirements to allow final approval for the use of the material.
 - Approval of the material from other consultants (e.g. geotechnical engineer, landscaper) as suitable for the proposed use.

- Construction by the Remediation Contractor of the capping using the materials approved by the EC and pavements (as applicable). The capping layer is to be constructed in accordance with engineering requirements to provide a long term, stable layer.
- Following the completion of the capping layer:
 - Surveying by the Site Surveyor of the extent and level of the capping layer, to the specification provided. Preparation by the Site Surveyor of survey drawings clearly showing the extent and levels of the marker layer, capping layer, and an overlay of the pre- and post-capping surveys to show the thickness of the layer.
 - Inspection by the EC to confirm that the capping layer has been constructed. The EC is to take a photographic record of the inspection.
 - Review by the EC of the survey drawings.
- Rectification by the Remediation Contractor of any significant non-compliances identified by the EC.

The principal contractor will be responsible for undertaking the following:

- Complete surveys and survey drawings as required above. At a minimum one survey point is recommended per 50 m² accurate to +/- 0.05 m.
- Provide the EC with any records / reports related to soil (VENM / ENM / topsoil) materials proposed to be imported to the development site to form part of the capping layer. No materials should be imported until the EC has granted approval.
- Provide the EC with material data sheets for the geofabric marker layer, provide the roll numbers of the geo-fabric used and provide the manufacturers quality assurance certificate for the geo-fabric.
- Provide the EC with transport and tipping dockets for all waste disposed of off-site. This is to include record of tracking of asbestos waste in accordance with the NSW EPA Integrated Waste Tracking System (IWTS).
- Keep and provide the EC with site tracking records for all imported soil / rock / landscaping materials entering the site and waste leaving the site.

2.4 Contingency Plan for Potential RA4: Groundwater remediation off-site at the downgradient boundaries of the site

Following the completion of data gap investigations, including risk assessments and seepage modelling, there may be groundwater offsite (potentially around TTC MW1, BH106, TTC Midas MW2 and TTC Midas MW3) that will require remediation to prevent potential soil vapour intrusion / groundwater seepage impacts on the proposed development.

This contingency plan covers the following scenario:

- Light non aqueous phase separately liquid (LNAPL) present in groundwater.
- Dissolved phase concentrations of petroleum hydrocarbons in groundwater downgradient of the site / at the offsite boundary is above an acceptable limit that will results in potential soil vapour intrusion risks for the proposed development.

2.4.1 LNAPL removal

Given the concentrations of TRH have been recorded exceeding the solubility limit, there is a potential that LNAPL is present. It is anticipated that as part of the proposed basement excavation, LNAPL source removal in the soil and groundwater within the site will likely occur as part of the development and remediation of RA1 outlined in the RAP. However, LNAPL may be present offsite (at the down gradient boundary). If the data gap investigations confirm the presence of LNAPL down gradient and risk assessments / seepage modelling identify the need for remediation of the LNAPL to make the site suitable for the proposed development, then the following process is to be implemented.

As excavation offsite may not be feasible for offsite groundwater impacts (as it is within Council property), other methodologies that involve the in situ removal of LNAPL via groundwater wells or in situ treatment are expected to be required. The appropriateness of any remediation technology adopted is to be assessed by the EC and may require further investigations and/or trial to determine suitability and feasibility.

The appropriateness and methodology of LNAPL recovery is to be determined based on LNAPL transmissivity testing results. If the transmissivity value exceeds the empirical threshold of approximately 0.074 m²/day, active recovery is to be undertaken unless the EC determines this is not practical / required (e.g. due to an alternative remediation strategy, such as excavation, being adopted instead).

The works to be conducted for the active LNAPL recover, if applicable, are to be detailed in an update of, or addendum to, this RAP.

It is anticipated that the removal would be conducted with an initial recovery event using a mobile Multi-Phase Vacuum Extraction (MPVE) system. MPVE can also be combined with a downhole pump, to remove various combinations of contaminated groundwater, separate-phase petroleum product, and vapours from the subsurface. The detailed works to be conducted as part of the MPVE event are to be planned by the MPVE contractor with the input of, and approval from, the EC.

After the removal works, ongoing monitoring of the LNAPL is to be conducted to assess the LNAPL rebound. This will nominally be conducted every two days for the first week, then weekly for a month, and then monthly for a period of 3 months, or until LNAPL returns to pre-removal thickness.

The need / potential benefit from additional MPVE events or a permanent recovery system will be assessed based on the initial MPVE event.

The detailed remediation methodology should be developed by the remediation contractor following review of the LNAPL transmissivity testing results, the pilot recovery trial outcomes, and relevant site-specific conditions.

2.4.2 Residual groundwater contamination

Residual groundwater contamination down gradient can be addressed in the same methodology for the groundwater components outlined in Section 2.2 (Contingency Plan for RA1), namely:

- Use of impermeable membranes at the affected site boundary (such as but not limited to HDPE or spray on membranes) to prevent groundwater / soil vapour ingress into the basement. The selection of an appropriate control measure is to be determined by the Environmental Consultant in consultation with the Principal Contractor.
- For long-term use of the basement and management of potential water seepage, implementation of a groundwater seepage treatment system to manage potential ingress into the basement may be required. This is to be assessed by the Environmental Consultant in conjunction with relevant dewatering / civil contractors and the Principal Contractor.
- Further groundwater investigation and remediation, such as through monitored natural attenuation (MNA). If required, remediation targets and parameters are to be developed.
- Preparation and implementation of a long-term environmental management plan (LTEMP) to capture the ongoing management requirements to maintain the above.

2.5 Contingency Plan for RA5: Removal and validation of offsite UPSS infrastructure on Hale Street and associated soil impacts

Following the completion of the investigation into the UPSS at Hale Street, there is a potential remediation will be required.

This contingency plan covers the following scenario:

- UPSS infrastructure and impacted soils are located outside of the site, however, will be excavated as part of the proposed development and hence require remediation.
- UPSS infrastructure and impacted soils are located outside of the site and will not be impacted by the proposed development, however are assessed to present a potential risk for the proposed development.

In the event that UPSS infrastructure is outside of the site but development works extend into the area of the infrastructure (e.g. to form a driveway for the site), then the remediation strategy outlined in the RAP for RA1 for UPSS removal is to be implemented.

Similarly, in the event that remediation of UPSS infrastructure outside of the site is not required, but soils within the site have been impacted by UPSS infrastructure outside of the site, impacted soils can be excavated, disposed off-site and the remaining excavations validated in accordance with the strategy for RA1 as outlined in the RAP.

In both scenarios, if petroleum hydrocarbon impacted soil are present outside of the site and present a risk to the site, then the contingency plan outlined in Section 2.2 above is to be adopted.

3. Unexpected finds protocol

This unexpected finds protocol (UFP) has been developed to provide guidance on processes to follow if any unexpected find is encountered during the remediation or future civil and construction works. Any unexpected finds should be surveyed and the location documented.

All site personnel are to be inducted into their responsibilities under this (UFP), which should be included or referenced in the Remediation Contractors Environmental Management Plan.

All site personnel are required to report unexpected signs of environmental concern to the Site Manager if observed during the course of their works e.g. presence of potential unexploded ordnance, unnatural staining, potential contamination sources (such as buried drums or tanks) or chemical spills.

Should signs of concern be observed, the Site Manager, as soon as practical, will:

- Stop work in the affected area and ensure the area is barricaded to prevent unauthorised access.
- Notify authorities needed to obtain emergency response for any health or environmental concerns (e.g. fire brigade).
- Notify the Principal's Representative of the occurrence.
- Notify any of the authorities that the Remediation Contractor is legally / contractually required to notify (e.g. EPA, Council).
- Notify the Environmental Consultant.

The Principal's Representative is to notify any of the authorities which the Principal is legally / contractually required to notify (e.g. EPA, Council). Where appropriate the Principals Representative will also implement appropriate community consultation.

The Environmental Consultant will assess the extent and significance of the find and develop an investigation, remediation or management approach using (where possible) the principles and procedures already outlined in the RAP. Where a Site Auditor is involved, the proposed approach will be discussed and agreed with the Site Auditor prior to implementation.

4. References

NEPC. (2013). *National Environment Protection (Assessment of Site Contamination) Measure 1999 (as amended 2013) [NEPM]*. Australian Government Publishing Services Canberra: National Environment Protection Council.

WA DoH. (2021). *Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia*. WA Department of Health.

Appendix H

Remediation Options Assessment

1. Introduction

The following key guidelines and technical reports were consulted in the preparation of this remediation options assessment:

- NEPC *National Environment Protection (Assessment of Site Contamination) Measure 1999 (as amended 2013) [NEPM]* (NEPC, 2013).
- CRC CARE *Remediation Action Plan: Development - Guideline on Performing Remediation Options Assessment* (CRC CARE, 2019a).

The first stage of developing a remediation strategy is to establish clear and measurable remediation objectives and remediation criteria (clean-up levels). These will form the requirements against which remediation options are assessed.

The next stage of the remediation options assessment is to select technology and management options, or combinations of options, that have the potential to reduce contaminant concentrations and/or apply management controls as necessary so that the remediation objectives are achieved and no unacceptable risk is posed by the contamination in the context of the current and proposed site use. Where several viable options have been identified, an assessment of each of the options will be required to determine which option will most adequately and sustainably meet the remediation objectives (CRC CARE, 2019a).

The remediation objectives are to:

- Address potentially unacceptable risks to relevant environmental values from contamination.
- Render the site suitable, from a contamination perspective, for the proposed development.

2. Hierarchy of remediation options

NEPC (2013) stipulates the preferred hierarchy of options for site clean-up (remediation) and/or management which is outlined as follows:

- On-site treatment of the contamination so that it is destroyed, or the associated risk is reduced to an acceptable level.
- Off-site treatment of excavated soil, so that the contamination is destroyed, or the associated risk is reduced to an acceptable level, after which soil is returned to the site.

or, if these two options are not practicable;

- Consolidation and isolation of the soil on site by containment with a properly designed barrier.
- Removal of contaminated material to an approved site or facility, followed, where necessary, by replacement with appropriate material.

or,

- Where the assessment indicates remediation would have no net environmental benefit or would have a net adverse environmental effect, implementation of an appropriate management strategy.

3. Remediation options assessment

3.1 Introduction

The following issues have been identified at the site which require remediation:

- UPSS (decommissioned) infrastructure and associated contaminated soils.
- Contamination in general fill across within the proposed excavation footprint exceeding the adopted human health SAC.

Further investigation is proposed to assess data gaps identified at the site and the extent of the remediation and options assessed may change following the completion of the additional investigations / assessments.

The extent of required remediation will be further defined based on the results of the further investigation, and the final remediation extent will be established at the completion of the excavation of the area during remediation.

3.2 Remediation options assessment

The following key guidelines have therefore been consulted:

- CRC CARE *Technology Guide: Soil - Containment* (CRC CARE, 2019c).
- CRC CARE *Technology Guide: Soil - Excavation* (CRC CARE, 2019b).
- WA DoH *Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia* (WA DoH, 2021).
- WorkCover NSW *Managing Asbestos in or on Soil* (WorkCover NSW, 2014).

Given the necessary earthworks (proposed basement excavation) as part of the proposed development, the only options for the soil contamination that has been considered, is excavation and off-site disposal.

Relevant technical considerations include:

- Excavation is proposed at the site resulting in a net deficit of soil / rock such that majority of the material requires off-site disposal, irrespective of the contamination issues.
- The treatability of the contaminant. Of note for the site:
 - Some petroleum can be bioremediated and volatile petroleum fractions may be able to be treated, although time and space is required for this to be carried out (i.e. landfarming).
- The extent / volume of significantly contaminated soil. Of note for the site:
 - The extent of potential petroleum contaminated soil in the UPSS area may appeared to be limited.

Douglas understand that the construction program and cost constraints have yet to be discussed with the client as to whether on-site treatment (e.g. land farming to reduce TRH concentrations) of soils may be possible prior to disposal. Douglas notes this does not impact the overall remediation strategy as the soils are considered excess to the development, but may assist with reducing waste classification of some TRH impacted soils.

Accordingly, the preferred remediation strategy is excavation and off-site disposal.

4. Preferred remediation strategy

The preferred option selected has been selected taking in to account technical considerations (as discussed above), and other project specific considerations (such as proposed development works, program, cost and consideration of ongoing liability implications) is excavation and off-site disposal.

5. Contingency Plan Remediation Options

Douglas notes that although further assessment is required to confirm whether remediation is required for the following:

- Potential contamination within the 'proposed deep soil zone', 'proposed driveway'.
- Potential soil and groundwater contamination located on site.
- Potential soil and groundwater contamination offsite near the site boundary requires.

The assessment of potential remediation options for these scenarios has been considered at a high level to potentially comprise:

1. On site management / cap and contain (on site and or of the site boundary):
 - o May be suitable for contaminants identified in areas where soil is retained depending on the type of contaminants identified.
 - o May be necessary for preventing contaminants beyond the site boundary (soil and groundwater) impacting the site via the proposed basement walls.
2. On site treatment:
 - o May be suitable if residual contaminants are present in groundwater beneath the site (i.e. potential dissolved phase groundwater impacts), subject to confirmation of groundwater concentrations following source removal of UPSS and further risk assessment to determine whether detected concentration pose a risk.
3. Removal of contaminated materials for off-site disposal:
 - o For soil in the proposed deep soil zone and proposed driveway, if on site containment is not possible due to the nature or concentration of the contaminant, then removal off-site would be an option.
 - o For potential residual soil / groundwater contamination from the historic UPSS off-site disposal as part of the bulk excavation and dewatering works. Preferential removal of LNAPL (identified) or more highly contaminated groundwater prior to bulk dewatering could be conducted to streamline dewatering activities.

- o For contamination which has migrated beyond the site boundaries (if present) contaminant source reduction on-site may be a feasible approach to reduce future impacts (i.e. potential vapour intrusion and/or seepage into the proposed basement / building).
4. Implement a management strategy for residual contamination impacts in soil and groundwater:
- o Where remediation of residual soil and groundwater contamination (namely, beyond the site boundary) is not possible, then a management strategy to address the residual contamination will be required. This would be in the form of a long-term environmental management plan (LTEMP) and may work in tandem with other remediation strategies above (such as lining basement walls to reduce vapour intrusion / seepage or pumps included in the basement design to manage potential seepage and carrying out ongoing monitoring to assess whether natural attenuation is occurring).
 - o Any residual contamination capped and contained on site would also require on going management to maintain any capping construction.

6. References

CRC CARE. (2019a). *Remediation Action Plan: Development - Guideline on Performing Remediation Options Assessment*. National Remediation Framework: CRC for Contamination Assessment and Remediation of the Environment.

CRC CARE. (2019b). *Technology Guide: Soil - Excavation*. National Remediation Framework: CRC for Contamination Assessment and Remediation of the Environment.

CRC CARE. (2019c). *Technology Guide: Soil - Containment*. National Remediation Framework: CRC for Contamination Assessment and Remediation of the Environment.

NEPC. (2013). *National Environment Protection (Assessment of Site Contamination) Measure 1999 (as amended 2013) [NEPM]*. Australian Government Publishing Services Canberra: National Environment Protection Council.

WA DoH. (2021). *Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia*. WA Department of Health.

WorkCover NSW. (2014). *Managing Asbestos in or on Soil*. March 2014: WorkCover NSW, NSW Government.

Appendix I

Site Management Plan

1. Introduction

This general site management plan (SMP) has been developed to minimise potentially adverse impacts on the environment, and worker and public health as a result of the proposed remediation works.

The Remediation Contractor must have in place a construction environmental management plan (CEMP) (or similar) which is specific to the equipment used for the remediation and the proposed methods to be adopted by the Remediation Contractor. This SMP has been prepared to augment the Remediation Contractor's CEMP and contains general details for aspects of the work, as per reporting requirements for a remediation action plan (RAP) under NSW EPA *Guidelines for Consultants Reporting on Contaminated Land* (NSW EPA, 2020).

Apart from the management principles outlined in this SMP, the Remediation Contractor must also ensure compliance with all relevant environmental legislation and regulations, including (but not limited to) the following:

- Contaminated Land Management Act 1997 NSW (CLM Act).
- Protection of the Environment Operations Act 1997 NSW (POEO Act).
- Protection of the Environment Operations (Waste) Regulation 2019.
- Protection of the Environment Operations (Underground Petroleum Storage Systems) Regulation 2019.
- Pesticide Act 1999 NSW and Pesticides Regulation 2017.
- Work Health and Safety Act 2011 NSW (WHS Act) and Work Health and Safety Regulations 2025 NSW.

2. Roles and responsibilities

2.1 Principal

The Principal is responsible for the environmental performance of the proposed remediation works, including implementation of acceptable environmental controls during remediation works. The Principal will retain the overall responsibility for ensuring this RAP is appropriately implemented. The Principal is to nominate a representative (the Principal's Representative), who is responsible for overseeing the implementation of this RAP. The actual implementation of the RAP will, however, be conducted by the Remediation Contractor on behalf of the Principal.

The Principal is responsible for providing appropriate information to the Remediation Contractor to allow them to safely plan the required works. This includes the asbestos register for the site and this RAP.

The Principal is also responsible for implementing an appropriate communications plan.

2.2 Remediation Contractor

The Remediation Contractor will be the party responsible for daily implementation of this RAP and shall fulfil the responsibilities of the Principal Contractor as defined by SafeWork NSW. It is noted that the Remediation Contractor may appoint appropriately qualified sub-contractors or sub-consultants to assist in fulfilling the requirements of the procedures. The Remediation Contractor will appoint a Site Manager.

In addition to the implementation of the RAP it will be the Remediation Contractors responsibility to:

- Obtain / ensure relevant sub-contractors obtain specific related approvals as necessary to implement the earthworks for example, permits for removal of asbestos-containing material, SafeWork NSW notification etc.
- Develop or request and review any site plans to manage the works to be conducted.
- Ensure that all remediation works and other related activities are undertaken in accordance with this RAP.
- Maintain all site records related to the implementation of this RAP including but not limited to:
 - o Tracking of all movement of soil within the site, on to site and off-site from cradle to grave.
 - o Transportation Record: comprising a record of all truckloads of soil (including aggregate) entering the site, including truck identification (e.g. registration number), date, time, source site, load characteristics (e.g. type of material, i.e. quarried aggregate, etc.), approximate volume, use (e.g., general site raising, service trenches, etc.).
 - o Disposal dockets: for any soil disposed off-site including transportation records, spoil source, spoil disposal location, receipt provided by the receiving waste facility / site.
 - o Imported materials records: records for any soil imported onto the site, including source site, classification reports, inspection records of soil upon receipt at site and transportation records.
 - o Records relating to any unexpected finds and contingency plans implemented.
 - o Photographic records by all contractors and consultants of the works undertaken within their purview of responsibilities.
 - o Surveys pre- and post-installation of geotextile marker layer and clean fill cap.
 - o Airborne asbestos monitoring records (in the event that asbestos works are undertaken).
 - o Interim / final visual and sampling clearances for any asbestos related works (in the event that asbestos works are undertaken).
- Ensure sufficient information is provided to engage or direct all required parties, including sub-contractors, to implement the requirements of the RAP other than those that are the direct responsibility of the Remediation Contractor.
- Manage the implementation of any recommendation made by those parties in relation to work undertaken in accordance with the RAP.
- Inform, if appropriate, the relevant regulatory authorities of any non-conformances with the procedures and requirements of the RAP in accordance with the procedures outlined in this document.

- Retain records of any contingency actions.
- On completion of the project, to review the RAP records for completeness and update as necessary.
- Recommend any modification to general documentation which would further improve the environmental outcomes of this RAP.

2.3 Surveyor

The project surveyor will be a registered surveyor engaged by the Remediation Contractor to undertake surveying works as required by this RAP.

2.4 Asbestos Contractor

The Asbestos Contractor will be responsible for undertaking all asbestos work involving any asbestos impacted fill and will hold a Class A or B licence for the removal of asbestos (issued by SafeWork NSW). The required licence Class is to be determined by a licenced asbestos assessor based on the results of the data gap investigation.

The Asbestos Contractor can be the same entity as the Remediation Contractor.

2.5 Sub-contractors

All sub-contractors will be inducted onto the site, informed of their responsibilities in relation to this RAP and sign their agreement to abide by the RAP requirements. Where necessary, sub-contractors will also be trained in accordance with the requirements of this document. All sub-contractors must conduct their operations in accordance with the RAP as well as all applicable regulatory requirements.

2.6 Environmental Consultant

The Environmental Consultant will provide advice on implementing the RAP. The Environmental Consultant will be responsible for:

- Undertake any required assessments where applicable (e.g. waste classification, validation).
- Provide advice and recommendations arising from monitoring and/or inspections, including unexpected finds.
- Notify the Client with any results of assessments, and any observed non-conformances.

2.7 Licenced Asbestos Assessor (LAA)

A Licenced Asbestos Assessor will be required to be engaged independently of the Asbestos Contractor to undertake the following:

- Review and approve documentation prepared by the Asbestos Contractor.
- Prepare any WHS plans and advice required by the Remediation Contractor.
- Undertake airborne asbestos monitoring.
- Undertake clearance inspections.

- Provide advice and recommendations arising from monitoring and/or inspections.
- Notify the client with the results of any assessments and any observed non-conformances.

For non-friable asbestos work, the above can be conducted by a Competent Person.

2.8 Site workers

All workers on the site are responsible for observing the requirements of this RAP and other management plans. These responsibilities include the following:

- Being inducted on the site and advised of the general nature of the remediation / environmental issues at the site.
- Being aware of the requirements of this plan.
- Wearing appropriate personal protective equipment (PPE) as required by this plan.
- Only entering restricted areas when permitted.
- Requesting clarification when unclear of requirements of this or any other plans (e.g. safe work method statements (SWMS)).

3. Water management

3.1 Stormwater

Stormwater must be managed during the remediation works such that potential adverse impacts from surface runoff (e.g. cross contamination, mobilisation of contaminants in soil particles, etc.) are appropriately mitigated. Accordingly, the Remediation Contractor will take appropriate measures which may include:

- Construction, where necessary, of stormwater diversion channels, bunding and linear drainage sumps with catch pits in and around the remediation areas to divert stormwater from the contaminated areas.
- Provision of appropriately located sediment traps including geotextiles.
- Discharge of excess water in excavations / low points on a regular basis to limit the potential for flooding.

3.2 Dewatering of excavations

Groundwater dewatering is to be conducted in accordance with the project groundwater impact assessment (Douglas, 2026b) (GIA) or superseding documents.

Minor runoff or seepage water from above the water table that accumulates in site excavations that requires removal must initially be sampled and tested for suspended solids, pH and any contaminants of potential concern (CoPC) as identified by the Environmental Consultant (including, as a minimum, those required in the GIA). The options for management of excavation pump-out water, dependent upon the test results, are for disposal of the water as follows:

- Discharge to stormwater with prior approval from Council. Provided the test results comply with relevant ANZG *Australian and New Zealand Guidelines for Fresh and Marine Water Quality* (ANZG, 2018), or any other compliance requirements stipulated by Council. The Environmental Consultant must consider the most appropriate criteria to be used; or
- Discharge to sewer, as industrial trade wastewater, with prior approval from Sydney Water. This option would require the analysis of a larger list of analytes, and compliance with the Sydney Water acceptance standards; or
- Pumping by a liquid waste contractor for removal of the water off-site, in accordance with regulatory requirements.

Note that, depending on the type and scale of the dewatering required, a permit (water use approval) may need to be obtained through NSW Water.

4. Soil management plan

The Remediation Contractor will develop a plan to mitigate cross contamination as part of the CEMP to be implemented throughout the works.

4.1 Stockpiling of contaminated material

Contaminated material shall be excavated and stockpiled at a suitably segregated location(s) away from sensitive areas (e.g. water bodies, drainage lines, stormwater pits, etc.) and ongoing excavations, and in a manner that will not cause nuisance to the neighbouring properties. Soil stockpiles are to be managed as follows:

- An impermeable membrane such as plastic sheeting should be provided at the surface by the Remediation Contractor prior to stockpiling. Plastic sheeting should be taped at joins, as necessary.
- All stockpiles of contaminated material shall be surrounded by star pickets and marking tape or other suitable material to clearly delineate their boundaries.
- Stockpiles shall be lightly conditioned by sprinkler or covered by geotextile or similar cover to prevent dust generation (if remaining overnight).
- Stockpiles impacted, or potentially impacted, with asbestos must be covered by geotextile or similar cover to prevent dust generation.
- Measures should be taken by the Remediation Contractor to prevent the migration of stockpile materials (i.e. perimeter bunds, hay bales, silt fences, etc.).
- A record of stockpile locations (stockpile register), dimensions, descriptions, environmental controls, etc. should be maintained by the Remediation Contractor.

All movement of soil within the site is to be tracked by the Remediation Contractor, from cradle to grave. Copies of tracking records must be provided to the Environmental Consultant.

4.2 Stockpiling imported material

Imported material shall be stockpiled at a suitably segregated location(s) away from sensitive areas (e.g. water bodies, drainage lines, stormwater pits, etc.) and ongoing excavations, and in a manner that will not cause nuisance to the neighbouring properties. Soil stockpiles are to be managed as follows:

- Imported material should not be stockpiled within un-remediated areas of the site. If this is unavoidable an impermeable membrane such as plastic sheeting should be provided at the surface by the Remediation Contractor prior to stockpiling. Plastic sheeting should be taped at joins, as necessary.
- All stockpiles shall be surrounded by star pickets and marking tape or other suitable material to clearly delineate their boundaries.
- Stockpiles shall be lightly conditioned by sprinkler or covered by geotextile or similar cover to prevent dust generation (if remaining overnight).
- A record of stockpile locations (stockpile register), dimensions, descriptions, environmental controls, etc. should be maintained by the Remediation Contractor.

All movement of soil within the site is to be tracked by the Remediation Contractor, from cradle to grave. Copies of tracking records must be provided to the Environmental Consultant.

4.3 Transport of material off-site and on to site

Transport of contaminated material from the site and imported material to the site shall be via a clearly delineated haul route(s) and this route shall be used exclusively for entry and egress of vehicles used to transport contaminated materials within and away from the site, and onto and within the site. The proposed transport route(s) (to be determined by the Remediation Contractor) will be notified to Council and truck dispatch shall be logged and recorded by the Remediation Contractor for each load leaving or arriving the site. A record of the truck dispatch will be provided to the Environmental Consultant.

All haulage routes for trucks transporting soil, materials, equipment or machinery to and from the site should be selected to meet the following objectives:

- Comply with all road traffic rules.
- Minimise noise, vibration and dust to adjacent premises.
- Use State roads and minimise use of local roads as far as practicable.

The remediation work will be conducted such that all vehicles:

- Conduct deliveries of soil, materials, equipment or machinery only during the specified hours of remediation.
- Have securely covered loads to prevent any dust or odour emissions during transportation.
- Exit the site in a forward direction.

In addition, measures will be implemented to ensure no contaminated material is spilled onto public roadways or tracked off-site on vehicle wheels. Roadways will be kept clean throughout the remediation works and will be swept, if necessary, to achieve a clean environment.

All loads will be securely covered and may be lightly wetted, if required, to ensure that no materials or dust are dropped or deposited outside or within the site. Prior to exiting the site each truck should be inspected by Remediation Contractor personnel and either noted as clean (wheels and chassis) or swept prior to leaving the site. Any soil spilled onto surrounding streets will be cleaned by mechanical or hand methods, on a daily basis.

Removal of waste materials from the site shall only be carried out by contractors holding the appropriate license(s), consent or approvals to dispose the waste materials according to the waste classification and with the appropriate approvals obtained from the EPA, where required.

Materials imported onto the site shall only be carried out by contractors holding the appropriate license(s), consent or approvals to transport the materials with the appropriate approvals obtained from the EPA, where required.

All movement of soil within the site is to be tracked by the Remediation Contractor, from cradle to grave. Copies of tracking records must be provided to the Environmental Consultant.

5. Noise and vibration control plan

All equipment and machinery should be operated in an efficient manner to minimise the emission of noise. The use of any plant and/or machinery should not cause unacceptable vibrations to nearby properties and should meet Council requirements.

6. Dust control plan

Dust emissions must be confined within the site boundary as far as is practicable. The following example dust control procedures could be employed to comply with this requirement, as necessary:

- Erection of dust screens around the perimeter of the site (as applicable).
- Securely covering all loads entering or exiting the site.
- Use of water sprays across the site to suppress dust.
- Stockpiles shall be lightly conditioned by sprinkler or covered by geotextile or similar cover to prevent dust generation (if remaining overnight).
- Stockpiles impacted, or potentially impacted, with asbestos must be covered by geotextile or similar cover to prevent dust generation.
- Include wheel wash (if applicable).
- Keeping excavation and stockpile surfaces moist.

Regular checking of the fugitive dust issues is to be undertaken. Remedial measures are to be undertaken to rectify any cases of excessive dust.

7. Odour control plan

No odours should be detected at any boundary of the site during remediation works by an authorised Council Officer relying solely on sense of smell. The following example procedures could be employed to comply with this requirement as necessary:

- Use of appropriate covering techniques such as plastic sheeting, polythene or geotextile membranes to cover excavation faces or stockpiles.
- Fine spray of water and/or hydrocarbon mitigating agent on impacted areas / stockpiles or loads to lightly condition the material.
- If required, restrict uncovered stockpiles to appropriate sizes to minimise odour generation.
- Ceasing works during periods of inclement weather such as high winds or heavy rain.
- Regular checking of the fugitive dust and odour issues to ensure compliance. Undertake immediate remediation measures to rectify any cases of excessive dust or odour (e.g. use of misting sprays or odour masking agent).
- Adequate maintenance of equipment and machinery to minimise exhaust emissions.

8. Work health and safety plan

8.1 General

It is the Remediation Contractor's responsibility to devise a SWMS¹ (or series thereof, for various respective tasks) and to implement proper controls that enable the personnel undertaking the remediation to work in a safe environment. This RAP and SMP does not relieve the Remediation Contractor or other contractors of their ultimate responsibility for occupational health and safety of their workforce and to prevent contamination of areas outside the 'remediation' workspace. This RAP and SMP sets out general procedures and the minimum standards and guidelines for remediation that will need to be used in preparing the safe work method statement.

This work health safety plan (WHSP) has been prepared with reference to CRC CARE *Remediation Action Plan: Implementation - Guideline on Health and Safety* (CRC CARE, 2019). The requirements of this WHSP must be incorporated into the Remediation Contractor's SWMS.

All site work must be undertaken in a controlled and safe manner with due regard to potential hazards, training and safe work practices. To attain this the SWMS developed by the Remediation Contractor must comply with policies specified in the Work Health and Safety Regulation 2011.

All appropriate permits, licences and notifications required for the remediation activities must be obtained prior to the commencement of remediation works.

¹ Either a SWMS or construction environmental management plan (CEMP), or other equivalent document incorporating health and safety aspects of the proposed remedial works.

8.2 Site access

Appropriate fencing and signage must be installed around and within the site to prevent unauthorised access and restrict access to remediation areas and/or deep excavations. Access restrictions and administrative arrangements for management of entry of workers or related personnel on site is the responsibility of the Remediation Contractor.

Any existing pits or unstable areas on site that may generate potential safety, or operational risk should be demarcated and taped off, with appropriate rectification action undertaken (e.g. backfilling of pits).

8.3 Personnel and responsibilities

Before undertaking works on site, all personnel will be made aware of the officer responsible for implementing WHS procedures. All personnel must read and understand this WHSP and over-arching SWMS prior to commencing site works and sign a statement to that effect. Contractors employed at the site will be responsible for ensuring that their employees are aware of, and comply with, the requirements of this WHSP and Remediation Contractor's SWMS.

8.4 Chemical contamination hazards

Chemical compounds or substances that may be present in the soils at the site include the key CoPC heavy metals, TRH, BTEX, PAH, PCB and VOC. There is also a lower probability of other contaminants being present.

The risks associated with the identified contaminants to site personnel and workers involved in the remediation are considered to be low due to the concentrations within groundwater and soil vapour and limited exposure durations. These risks are associated with:

- Ingestion of contaminated soil and/or water.
- Dermal contact with contaminated soil and/or water.
- Inhalation of dusts or vapours of the CoPC.

Personnel will endeavour, wherever possible, to avoid direct contact with potentially contaminated material. Workers must avoid the potential exposures listed above as far as is practicable. Appropriate personal protective equipment (PPE) must be used to mitigate potential risks.

Risks to workers entering excavations in areas of identified volatile or potentially volatile contamination (i.e. RA2 to RA5) are to be assessed and appropriate controls implemented. This may include monitoring of air quality and/ or respiratory protection with appropriate filter.

8.5 Asbestos hazards

All asbestos removal works are to be conducted in accordance with the WHS Act and Regulations and SafeWork NSW requirements.

Overarching guidance on asbestos works is outlined below:

- Given the presence of asbestos on site, the Principal Contractor must be either appropriately licenced to undertake asbestos removal works or engage an appropriately licenced asbestos removalist to ensure that any works that involve the handling of fill materials that contain or potentially contain asbestos are completed in accordance with the relevant legislation, regulations and codes of practice.
- Prior to the commencement of any asbestos works the licenced asbestos removalist shall prepare for implementation an Asbestos Removal Control Plan (ARCP) in accordance with the WHS Act, WHS Regulation and the SafeWork NSW Code of Practice How to Safely Remove Asbestos, December 2022 and any other relevant and applicable regulations and SafeWork NSW Codes of Practice or guidance documents.
- The licensed asbestos removalist must give a copy of the ARCP to the person who commissioned the licensed asbestos removal work.
- The licensed asbestos removalist must ensure that a copy of the ARCP is kept until the asbestos removal work to which it relates is completed, and is available to persons / organisation accessing the site.
- The ARCP shall include:
 - o Details of the asbestos to be removed, including the location, type and condition of the asbestos.
 - o Information about health risks of licensed asbestos removal work.
 - o Requirements for notification to SafeWork NSW.
 - o Licensing and supervision requirements.
 - o Training requirements.
 - o Record keeping requirements.
 - o Details of how the asbestos removal will be carried out, including the method to be used and the tools, equipment and personal protective equipment to be used, including requirements for:
 - Signage and barricades.
 - Access limitations to asbestos removal area.
 - Decontamination facilities.
 - Disposing of asbestos waste and contaminated personal protective equipment.
 - Clearance inspections and certificates.
- Notification of asbestos works must be provided by the licensed asbestos removalist and person with management or control of workplace in accordance with the requirements of the WHS Regulations.

8.6 Physical hazards

The following physical hazards are associated with conditions that may be created during remediation works:

- Heat exposure.

- Excavations.
- Buried services.
- Noise.
- Dust.
- Electrical equipment.
- Heavy equipment and truck operation.
- Asbestos.

Safe work practices must be employed to manage the physical risks identified above. For the most part these risks can be managed through appropriate demarcation, access controls and the use of appropriate PPE.

8.7 Safe work practices

The appropriate safe work practices should be clearly defined by the Remediation Contractor in their SWMS. As a minimum, all personnel on site will be required to wear the following PPE:

- Steel-capped boots (mandatory).
- High visibility clothing / vest (mandatory).
- Safety glasses or safety goggles with side shields requirements (as necessary).
- Hard hat (as necessary).
- Appropriate respiratory and protective equipment for any works involving asbestos (as necessary).
- Hearing protection when working in the vicinity of machinery or plant equipment if noise levels exceed exposure standards (as necessary).

Each item of PPE should meet the corresponding relevant Australian Standard(s).

Specific safe work practices will be adopted when working with asbestos, in accordance with (but not limited to) the following codes of practice:

- SafeWork NSW *Code of Practice, How to Manage and Control Asbestos in the Workplace* (SafeWork NSW, 2019a).
- SafeWork NSW *Code of Practice, How to Safely Remove Asbestos* (SafeWork NSW, 2019b).
- WorkCover NSW *Managing Asbestos in or on Soil* (WorkCover NSW, 2014).
- NOHSC *Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres 2nd Ed* (NOHSC, 2005).

9. Remediation schedule and hours of operation

The remediation works will be conducted within the days and hours specified in the development consent.

10. Response to incidents

The key to effective management of incidents is the timely action taken before any situation reaches a reportable or critical level. Therefore, surveillance activities are extremely important and should be conducted for the measures prescribed herein and any other measures prescribed in any additional environmental management plan developed subsequently. During construction activities on the site, the following inspection or preventative actions should be performed by the Remediation Contractor:

- Regular inspection of works.
- Completion of routine environmental checklists and follow-up of non-compliance situations.
- Maintenance and supervision on-site.
- An induction process for site personnel involved in the remediation works that includes relevant information on the contamination status of the site, the remediation works being undertaken, worker health and environmental protection requirements and ensures that all site personnel are familiar with the site emergency procedures.

An emergency response plan will be in place for all aspects of site works. Any emergency will be reported immediately to the site office and/or the Site Manager (and Safety Officer), and the appropriate emergency assistance should be sought. The Site Manager should be responsible for initiating an immediate emergency response using the resources available on the site. Where external assistance is required, the relevant emergency services should be contacted. A table such as that below, containing contact details for key personnel who may be involved in an environmental emergency response should be completed and be readily available to personnel at all times. The table should be completed, and thereafter amended, as required.

The Remediation Contractor will be responsible for ensuring that site personnel are aware of the emergency services available and the appropriate contact details. A site Safety Officer should be contactable, or available, on-site during remediation and development works.

Contact details for key utilities are included in the event of needing to respond to incidents. Blank cells are 'to be confirmed' and should be completed prior to works commencing when all entities are confirmed.

Table 1: Summary of roles and contact details

Role	Personnel / contact	Phone contact details
Principal		
Principal's Representative		
Site Manager		
Remediation Contractor and Builder		
Site Office		
Environmental Consultant		
Consent Authority		

Role	Personnel / contact	Phone contact details
Regulator	NSW EPA (pollution line and general enquiries)	131 555
Utility Provider	Water (Sydney Water Corporation)	13 20 92
Utility Provider	Power (Ausgrid)	13 13 88
Utility Provider	Gas (Jemena Limited)	131 909
Utility Provider	Telecommunications (Telstra Corporation Limited)	13 22 03
Utility Provider	Telecommunications (Optus)	1800 505 777
Utility Provider	Telecommunications (NBN Co Limited)	1800 687 626

11. References

ANZG. (2018). *Australian and New Zealand Guidelines for Fresh and Marine Water Quality*. Canberra, ACT: Australian and New Zealand Governments and Australian state and territory governments.

CRC CARE. (2019). *Remediation Action Plan: Implementation - Guideline on Health and Safety*. National Remediation Framework: CRC for Contamination Assessment and Remediation of the Environment.

Douglas. (2026b). *Groundwater Impact Assessment 494-500 & 516 Military Road, Mosman NSW*. Reference 240782.00.R.003.Rev0, dated June 2026: Douglas Partners Pty Ltd.

NOHSC. (2005). *Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres 2nd Ed*. Canberra, April 2005, NOHSC:3003: National Occupational Health and Safety Commission, Commonwealth of Australia.

NSW EPA. (2020). *Guidelines for Consultants Reporting on Contaminated Land*. Contaminated Land Guidelines: NSW Environment Protection Authority.

SafeWork NSW. (2019a). *Code of Practice, How to Manage and Control Asbestos in the Workplace*. August 2019.

SafeWork NSW. (2019b). *Code of Practice, How to Safely Remove Asbestos*. August 2019: SafeWork NSW, NSW Government.

WorkCover NSW. (2014). *Managing Asbestos in or on Soil*. March 2014: WorkCover NSW, NSW Government.