

LABORATORY SUMMARY TABLES

TABLE A SOIL LABORATORY RESULTS COMPARED TO HILS All data in mg/kg unless stated otherwise																						
			HEAVY METALS								PAHs		ORGANOCHLORINE PESTICIDES (OCPs)							OP PESTICIDES (OPPs)	TOTAL PCBs	ASBESTOS FIBRES
			Arsenic	Cadmium	Chromium VI ²	Copper	Lead	Mercury	Nickel	Zinc	Total PAHs	B(a)P TEQ ³	HCB	Endosulfan	Methoxychlor	Aldrin & Dieldrin	Chlordane	DDT, DDD & DDE	Heptachlor	Chlorpyrifos		
PQL - Envirolab Services			4	0.4	1	1	1	0.1	1	1	-	0.5	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	100
Site Assessment Criteria (SAC) ¹			100	20	100	6000	300	40	400	7400	300	3	10	270	300	6	50	240	6	160	1	Detected/Not Detected
Sample Reference	Sample Depth	Sample Description																				
BH1	0.1-0.2	Fill: silty sand	LPQL	LPQL	13	43	33	LPQL	11	48	3.3	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	0.1	LPQL
BH1	1-1.2	Fill: silty sand	5	LPQL	18	57	59	0.3	16	65	3.2	LPQL	NA	NA	NA	NA	NA	NA	NA	NA	NA	LPQL
BH1	1.5-1.95	Clayey sand	LPQL	LPQL	5	4	20	LPQL	LPQL	3	LPQL	LPQL	NA	NA	NA	NA	NA	NA	NA	NA	NA	LPQL
BH2	0.4-0.5	Fill: silty sand	LPQL	LPQL	18	41	18	0.1	74	100	3.8	LPQL	NA	NA	NA	NA	NA	NA	NA	NA	NA	LPQL
BH2	1-1.2	Fill: silty sand	LPQL	LPQL	15	55	19	0.1	110	94	3.2	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL
BH2	1.5-1.95	Clayey sand	5	LPQL	7	8	19	0.2	1	17	LPQL	LPQL	NA	NA	NA	NA	NA	NA	NA	NA	NA	LPQL
BH2	2.5-2.8	Silty sand	4	LPQL	14	13	13	LPQL	5	44	LPQL	LPQL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BH3	0.1-0.3	Fill: silty sand	5	LPQL	15	48	110	0.5	8	130	12	1.4	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL
BH3	0.5-0.95	Fill: silty sand	5	LPQL	14	58	110	0.6	6	110	19	2.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	LPQL
BH3	1.5-1.95	Fill: silty sand	5	LPQL	10	78	290	0.3	3	120	LPQL	LPQL	NA	NA	NA	NA	NA	NA	NA	NA	NA	LPQL
BH3	6-6.45	Fill: silty sand	6	LPQL	18	24	99	0.4	6	50	3.8	LPQL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BH3	7.5-7.95	Sandy clay	LPQL	LPQL	9	4	27	0.2	1	39	0.64	LPQL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BH4	0.1-0.2	Fill: silty sand	LPQL	LPQL	6	5	15	LPQL	2	18	1.3	LPQL	NA	NA	NA	NA	NA	NA	NA	NA	NA	LPQL
BH4	0.6-0.95	Fill: silty sand	4	LPQL	18	26	89	0.4	11	92	5.5	0.7	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL
BH4	1.5-1.95	Fill: silty sand	8	LPQL	16	42	53	0.4	21	41	1.4	LPQL	NA	NA	NA	NA	NA	NA	NA	NA	NA	LPQL
BH4	3-3.45	Fill: silty sand	LPQL	LPQL	8	20	89	0.3	13	59	2.2	LPQL	NA	NA	NA	NA	NA	NA	NA	NA	NA	LPQL
BH5	0.2-0.4	Fill: silty sand	LPQL	LPQL	14	27	42	0.2	8	39	3.9	0.5	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL
BH5	0.5-0.95	Fill: silty sand	LPQL	LPQL	20	27	36	0.1	24	43	11	1.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BH5	1.5-1.95	Fill: silty sand	5	LPQL	17	110	170	1.5	14	100	14	1.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	LPQL
BH5	3-3.45	Fill: silty sand	5	LPQL	19	49	80	0.4	17	50	13	1.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	LPQL
BH6	0.05-0.15	Fill: sandy gravel	LPQL	LPQL	3	220	10	1.5	6	43	0.3	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL
BH6	0.5-0.95	Fill: silty sand	11	LPQL	12	64	130	0.4	10	160	98	13	NA	NA	NA	NA	NA	NA	NA	NA	NA	LPQL
BH6	1.5-1.95	Fill: silty sand	9	LPQL	13	46	310	1.8	13	420	17	2.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BH6	3-3.45	Fill: silty sand	7	LPQL	12	110	400	2.1	5	200	11	1.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	LPQL
BH6	6-6.45	Fill: silty sand	5	LPQL	13	13	61	0.3	5	28	8.8	0.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BH7	0.05-0.1	Fill: gravelly sand	LPQL	LPQL	5	150	10	0.1	6	41	0.4	LPQL	NA	NA	NA	NA	NA	NA	NA	NA	NA	LPQL
BH7	0.4-0.5	Fill: silty sand	LPQL	LPQL	26	21	14	LPQL	10	51	0.1	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL
BH7	1.5-1.95	Fill: silty sand	5	LPQL	9	13	89	0.2	4	60	1.6	LPQL	NA	NA	NA	NA	NA	NA	NA	NA	NA	LPQL
BH7	6-6.45	Fill: silty sand	5	LPQL	15	22	98	0.6	7	120	5.1	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BH8	0.5-0.7	Fill: clayey sand	26	LPQL	20	10	32	0.3	4	54	0.3	LPQL	NA	NA	NA	NA	NA	NA	NA	NA	NA	LPQL
BH8	1.5-1.95	Fill: silty sand	5	LPQL	16	19	110	2.4	2	25	6.7	0.7	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL
BH8	4.5-4.95	Fill: silty sand	6	LPQL	16	34	90	0.4	9	54	3.7	LPQL	NA	NA	NA	NA	NA	NA	NA	NA	NA	LPQL
Total Number of Samples			32	32	32	32	32	32	32	32	32	32	8	8	8	8	8	8	8	8	8	25
Maximum Value			26	LPQL	26	220	400	2.4	110	420	98	13	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	0.1	NC
Explanation: 1 - Site Assessment Criteria (SAC): NEPM 2013, HIL-A: 'Residential with garden/accessible soils; children's day care centers; preschools; and primary schools' 2 - The results are for Total Chromium which includes Chromium III and VI. For initial screening purposes, we have assumed that the samples contain only Chromium VI unless demonstrated otherwise by additional analysis. 3 - B(a)P TEQ - Benzo(a)pyrene Toxicity Equivalence Quotient has been calculated based on 8 carcinogenic PAHs and their Toxic Equivalence Factors (TEFs) outlined in NEPM 2013																						
Concentration above the SAC			VALUE																			
Abbreviations: PAHs: Polycyclic Aromatic Hydrocarbons B(a)P: Benzo(a)pyrene PQL: Practical Quantitation Limit LPQL: Less than PQL OPP: Organophosphorus Pesticides OCP: Organochlorine Pesticides PCBs: Polychlorinated Biphenyls UCL: Upper Level Confidence Limit on Mean Value HILs: Health Investigation Levels NA: Not Analysed NC: Not Calculated NSL: No Set Limit SAC: Site Assessment Criteria NEPM: National Environmental Protection Measure																						

TABLE B SOIL LABORATORY RESULTS COMPARED TO HSLs All data in mg/kg unless stated otherwise												
					C ₆ -C ₁₀ (F1)	>C ₁₀ -C ₁₆ (F2)	Benzene	Toluene	Ethylbenzene	Xylenes	Naphthalene	PID ²
PQL - Envirolab Services					25	50	0.2	0.5	1	3	1	
HSL Land Use Category ¹					RESIDENTIAL WITH ACCESSIBLE SOIL							
Sample Reference	Sample Depth	Sample Description	Depth Category	Soil Category								
BH1	0.1-0.2	Fill: silty sand	0m to < 1m	Sand	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	0
BH1	1-1.2	Fill: silty sand	1m to <2m	Sand	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	0
BH1	1.5-1.95	Clayey sand	1m to <2m	Sand	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	0
BH2	0.4-0.5	Fill: silty sand	0m to < 1m	Sand	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	0
BH2	1-1.2	Fill: silty sand	1m to <2m	Sand	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	0
BH2	1.5-1.95	Clayey sand	1m to <2m	Sand	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	0
BH2	2.5-2.8	Silty sand	2m to <4m	Sand	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	0
BH3	0.1-0.3	Fill: silty sand	0m to < 1m	Sand	LPQL	61	LPQL	LPQL	LPQL	LPQL	LPQL	0
BH3	0.5-0.95	Fill: silty sand	0m to < 1m	Sand	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	0
BH3	1.5-1.95	Fill: silty sand	1m to <2m	Sand	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	0
BH3	6-6.45	Fill: silty sand	4m+	Sand	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	0
BH3	7.5-7.95	Sandy clay	4m+	Clay	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	0
BH4	0.1-0.2	Fill: silty sand	0m to < 1m	Sand	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	0
BH4	0.6-0.95	Fill: silty sand	0m to < 1m	Sand	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	0
BH4	1.5-1.95	Fill: silty sand	1m to <2m	Sand	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	0
BH4	3-3.45	Fill: silty sand	2m to <4m	Sand	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	0
BH5	0.2-0.4	Fill: silty sand	0m to < 1m	Sand	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	0
BH5	0.5-0.95	Fill: silty sand	0m to < 1m	Sand	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	0
BH5	1.5-1.95	Fill: silty sand	1m to <2m	Sand	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	0
BH5	3-3.45	Fill: silty sand	2m to <4m	Sand	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	0
BH6	0.05-0.15	Fill: sandy gravel	0m to < 1m	Sand	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	0
BH6	0.5-0.95	Fill: silty sand	0m to < 1m	Sand	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	0
BH6	1.5-1.95	Fill: silty sand	1m to <2m	Sand	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	0
BH6	3-3.45	Fill: silty sand	2m to <4m	Sand	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	0
BH6	6-6.45	Fill: silty sand	4m+	Sand	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	0
BH7	0.05-0.1	Fill: gravelly sand	0m to < 1m	Sand	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	0
BH7	0.4-0.5	Fill: silty sand	0m to < 1m	Sand	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	0
BH7	1.5-1.95	Fill: silty sand	1m to <2m	Sand	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	0
BH7	6-6.45	Fill: silty sand	4m+	Sand	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	0
BH8	0.5-0.7	Fill: clayey sand	0m to < 1m	Sand	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	0
BH8	1.5-1.95	Fill: silty sand	1m to <2m	Sand	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	0
BH8	4.5-4.95	Fill: silty sand	4m+	Sand	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	0
Total Number of Samples					32	32	32	32	32	32	32	32
Maximum Value					LPQL	61	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL
Explanation: 1 - Site Assessment Criteria (SAC): NEPM 2013 2 - Field PID values obtained during the investigation Concentration above the SAC VALUE The guideline corresponding to the elevated value is highlighted in grey in the Site Assessment Criteria Table below Abbreviations: UCL: Upper Level Confidence Limit on Mean Value HSLs: Health Screening Levels NA: Not Analysed NC: Not Calculated NL: Not Limiting SAC: Site Assessment Criteria PQL: Practical Quantitation Limit LPQL: Less than PQL NEPM: National Environmental Protection Measure												

SITE ASSESSMENT CRITERIA												
					C ₆ -C ₁₀ (F1)	>C ₁₀ -C ₁₆ (F2)	Benzene	Toluene	Ethylbenzene	Xylenes	Naphthalene	
PQL - Envirolab Services					25	50	0.2	0.5	1	3	1	
HSL Land Use Category ¹					RESIDENTIAL WITH ACCESSIBLE SOIL							
Sample Reference	Sample Depth	Sample Description	Depth Category	Soil Category								
BH1	0.1-0.2	Fill: silty sand	0m to < 1m	Sand	45	110	0.5	160	55	40	3	
BH1	1-1.2	Fill: silty sand	1m to <2m	Sand	70	240	0.5	220	NL	60	NL	
BH1	1.5-1.95	Clayey sand	1m to <2m	Sand	70	240	0.5	220	NL	60	NL	
BH2	0.4-0.5	Fill: silty sand	0m to < 1m	Sand	45	110	0.5	160	55	40	3	
BH2	1-1.2	Fill: silty sand	1m to <2m	Sand	70	240	0.5	220	NL	60	NL	
BH2	1.5-1.95	Clayey sand	1m to <2m	Sand	70	240	0.5	220	NL	60	NL	
BH2	2.5-2.8	Silty sand	2m to <4m	Sand	110	440	0.5	310	NL	95	NL	
BH3	0.1-0.3	Fill: silty sand	0m to < 1m	Sand	45	110	0.5	160	55	40	3	
BH3	0.5-0.95	Fill: silty sand	0m to < 1m	Sand	45	110	0.5	160	55	40	3	
BH3	1.5-1.95	Fill: silty sand	1m to <2m	Sand	70	240	0.5	220	NL	60	NL	
BH3	6-6.45	Fill: silty sand	4m+	Sand	200	NL	0.5	540	NL	170	NL	
BH3	7.5-7.95	Sandy clay	4m+	Clay	290	NL	3	NL	NL	NL	NL	
BH4	0.1-0.2	Fill: silty sand	0m to < 1m	Sand	45	110	0.5	160	55	40	3	
BH4	0.6-0.95	Fill: silty sand	0m to < 1m	Sand	45	110	0.5	160	55	40	3	
BH4	1.5-1.95	Fill: silty sand	1m to <2m	Sand	70	240	0.5	220	NL	60	NL	
BH4	3-3.45	Fill: silty sand	2m to <4m	Sand	110	440	0.5	310	NL	95	NL	
BH5	0.2-0.4	Fill: silty sand	0m to < 1m	Sand	45	110	0.5	160	55	40	3	
BH5	0.5-0.95	Fill: silty sand	0m to < 1m	Sand	45	110	0.5	160	55	40	3	
BH5	1.5-1.95	Fill: silty sand	1m to <2m	Sand	70	240	0.5	220	NL	60	NL	
BH5	3-3.45	Fill: silty sand	2m to <4m	Sand	110	440	0.5	310	NL	95	NL	
BH6	0.05-0.15	Fill: sandy gravel	0m to < 1m	Sand	45	110	0.5	160	55	40	3	
BH6	0.5-0.95	Fill: silty sand	0m to < 1m	Sand	45	110	0.5	160	55	40	3	
BH6	1.5-1.95	Fill: silty sand	1m to <2m	Sand	70	240	0.5	220	NL	60	NL	
BH6	3-3.45	Fill: silty sand	2m to <4m	Sand	110	440	0.5	310	NL	95	NL	
BH6	6-6.45	Fill: silty sand	4m+	Sand	200	NL	0.5	540	NL	170	NL	
BH7	0.05-0.1	Fill: gravelly sand	0m to < 1m	Sand	45	110	0.5	160	55	40	3	
BH7	0.4-0.5	Fill: silty sand	0m to < 1m	Sand	45	110	0.5	160	55	40	3	
BH7	1.5-1.95	Fill: silty sand	1m to <2m	Sand	70	240	0.5	220	NL	60	NL	
BH7	6-6.45	Fill: silty sand	4m+	Sand	200	NL	0.5	540	NL	170	NL	
BH8	0.5-0.7	Fill: clayey sand	0m to < 1m	Sand	45	110	0.5	160	55	40	3	
BH8	1.5-1.95	Fill: silty sand	1m to <2m	Sand	70	240	0.5	220	NL	60	NL	
BH8	4.5-4.95	Fill: silty sand	4m+	Sand	200	NL	0.5	540	NL	170	NL	

TABLE C SOIL LABORATORY RESULTS COMPARED TO EILs AND ESLs All data in mg/kg unless stated otherwise																							
Land Use Category ¹				URBAN RESIDENTIAL AND PUBLIC OPEN SPACE																			
				pH	CEC (cmol/kg)	Clay Content (% clay)	AGED HEAVY METALS-EILs					EILs		ESLs									
							Arsenic	Chromium	Copper	Lead	Nickel	Zinc	Naphthalene	DDT	C ₆ -C ₁₀ (F1)	>C ₁₀ -C ₁₆ (F2)	>C ₁₆ -C ₃₄ (F3)	>C ₃₄ -C ₄₀ (F4)	Benzene	Toluene	Ethylbenzene	Total Xylenes	B(a)P
PQL - Envirolab Services				-	1	-	4	1	1	1	1	1	0.1	0.1	25	50	100	100	0.2	0.5	1	3	0.05
Ambient Background Concentration (ABC) ²				-	-	-	NSL	13	28	163	5	122	NSL	NSL	NSL	NSL	NSL	NSL	NSL	NSL	NSL	NSL	NSL
Sample Reference	Sample Depth	Sample Description	Soil Texture																				
BH1	0.1-0.2	Fill: silty sand	Coarse	NA	NA	NA	LPQL	13	43	33	11	48	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	0.1
BH1	1-1.2	Fill: silty sand	Coarse	NA	NA	NA	5	18	57	59	16	65	NA	NA	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	0.3
BH1	1.5-1.95	Clayey sand	Coarse	NA	NA	NA	LPQL	5	4	20	LPQL	3	NA	NA	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL
BH2	0.4-0.5	Fill: silty sand	Coarse	NA	NA	NA	LPQL	18	41	18	74	100	NA	NA	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	0.3
BH2	1-1.2	Fill: silty sand	Coarse	9.7	6	123	LPQL	15	55	19	110	94	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	0.2
BH2	1.5-1.95	Clayey sand	Coarse	NA	NA	NA	5	7	8	19	1	17	NA	NA	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL
BH2	2.5-2.8	Silty sand	Coarse	NA	NA	NA	4	14	13	13	5	44	NA	NA	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL
BH3	0.1-0.3	Fill: silty sand	Coarse	NA	NA	NA	5	15	48	110	8	130	LPQL	LPQL	LPQL	61	100	LPQL	LPQL	LPQL	LPQL	LPQL	0.98
BH3	0.5-0.95	Fill: silty sand	Coarse	NA	NA	NA	5	14	58	110	6	110	NA	NA	LPQL	LPQL	200	LPQL	LPQL	LPQL	LPQL	LPQL	1.7
BH3	1.5-1.95	Fill: silty sand	Coarse	NA	NA	NA	5	10	78	290	3	120	NA	NA	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL
BH3	6-6.45	Fill: silty sand	Coarse	NA	NA	NA	6	18	24	99	6	50	NA	NA	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	0.2
BH3	7.5-7.95	Sandy clay	Fine	NA	NA	NA	LPQL	9	4	27	1	39	NA	NA	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	0.07
BH4	0.1-0.2	Fill: silty sand	Coarse	NA	NA	NA	LPQL	6	5	15	2	18	NA	NA	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	0.1
BH4	0.6-0.95	Fill: silty sand	Coarse	NA	NA	NA	4	18	26	89	11	92	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	0.51
BH4	1.5-1.95	Fill: silty sand	Coarse	NA	NA	NA	8	16	42	53	21	41	NA	NA	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	0.1
BH4	3-3.45	Fill: silty sand	Coarse	NA	NA	NA	LPQL	8	20	89	13	59	NA	NA	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	0.2
BH5	0.2-0.4	Fill: silty sand	Coarse	NA	NA	NA	LPQL	14	27	42	8	39	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	0.4
BH5	0.5-0.95	Fill: silty sand	Coarse	NA	NA	NA	LPQL	20	27	36	24	43	NA	NA	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	0.83
BH5	1.5-1.95	Fill: silty sand	Coarse	NA	NA	NA	5	17	110	170	14	100	NA	NA	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	1.1
BH5	3-3.45	Fill: silty sand	Coarse	NA	NA	NA	5	19	49	80	17	50	NA	NA	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	1.1
BH6	0.05-0.15	Fill: sandy gravel	Coarse	9.3	4	34	LPQL	3	220	10	6	43	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	0.05
BH6	0.5-0.95	Fill: silty sand	Coarse	NA	NA	NA	11	12	64	130	10	160	NA	NA	LPQL	LPQL	590	190	LPQL	LPQL	LPQL	LPQL	8.9
BH6	1.5-1.95	Fill: silty sand	Coarse	8.3	15	9.8	9	13	46	310	13	420	NA	NA	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	1.5
BH6	3-3.45	Fill: silty sand	Coarse	NA	NA	NA	7	12	110	400	5	200	NA	NA	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	0.88
BH6	6-6.45	Fill: silty sand	Coarse	NA	NA	NA	5	13	13	61	5	28	NA	NA	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	0.7
BH7	0.05-0.1	Fill: gravelly sand	Coarse	NA	NA	NA	LPQL	5	150	10	6	41	NA	NA	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	0.06
BH7	0.4-0.5	Fill: silty sand	Coarse	NA	NA	NA	LPQL	26	21	14	10	51	LPQL	LPQL	LPQL	LPQL	LPQL	100	LPQL	LPQL	LPQL	LPQL	LPQL
BH7	1.5-1.95	Fill: silty sand	Coarse	NA	NA	NA	5	9	13	89	4	60	NA	NA	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	0.2
BH7	6-6.45	Fill: silty sand	Coarse	NA	NA	NA	5	15	22	98	7	120	NA	NA	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	0.4
BH8	0.5-0.7	Fill: clayey sand	Coarse	NA	NA	NA	26	20	10	32	4	54	NA	NA	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	0.05
BH8	1.5-1.95	Fill: silty sand	Coarse	NA	NA	NA	5	16	19	110	2	25	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	0.51
BH8	4.5-4.95	Fill: silty sand	Coarse	NA	NA	NA	6	16	34	90	9	54	NA	NA	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	0.3
Total Number of Samples				3	3	3	32	32	32	32	32	32	8	8	32	32	32	32	32	32	32	32	32
Maximum Value				9.7	15	123	26	26	220	400	110	420	LPQL	LPQL	LPQL	61	590	190	LPQL	LPQL	LPQL	LPQL	8.9
Explanation:																							
1 - Site Assessment Criteria (SAC): NEPM 2013																							
2 - ABC Values for selected metals has been adopted from the published background concentrations presented in Olszowy et. al., (1995), Trace Element Concentrations in Soils from Rural and Urban New South Wales (the 25th percentile values for old suburbs with high traffic have been quoted)																							
Concentration above the SAC				VALUE																			
The guideline corresponding to the elevated value is highlighted in grey in the EIL and ESL Assessment Criteria Table below																							
Abbreviations:																							
EILs: Ecological Investigation Levels				UCL: Upper Level Confidence Limit on Mean Value					LPQL: Less than PQL					NC: Not Calculated									
B(a)P: Benzo(a)pyrene				ESLs: Ecological Screening Levels					SAC: Site Assessment Criteria					NSL: No Set Limit									
PQL: Practical Quantitation Limit				NA: Not Analysed					NEPM: National Environmental Protection Measure					ABC: Ambient Background Concentration									

EIL AND ESL ASSESSMENT CRITERIA

Land Use Category ¹				URBAN RESIDENTIAL AND PUBLIC OPEN SPACE																					
				pH	CEC (cmol/kg)	Clay Content (% clay)	AGED HEAVY METALS-EILs										ESLs								
							Arsenic	Chromium	Copper	Lead	Nickel	Zinc	Naphthalene	DDT	C ₆ -C ₁₀ (F1)	>C ₁₀ -C ₁₆ (F2)	>C ₁₆ -C ₃₄ (F3)	>C ₃₄ -C ₄₀ (F4)	Benzene	Toluene	Ethylbenzene	Total Xylenes	B(a)P		
PQL - Envirolab Services				-	1	-	4	1	1	1	1	1	0.1	0.1	25	50	100	100	0.2	0.5	1	3	0.05		
Ambient Background Concentration (ABC) ²				-	-	-	NSL	13	28	163	5	122	NSL	NSL	NSL	NSL	NSL	NSL	NSL	NSL	NSL	NSL	NSL		
Sample Reference	Sample Depth	Sample Description	Soil Texture																						
BH1	0.1-0.2	Fill: silty sand	Coarse	NA	NA	NA	100	203	88	1263	35	192	170	180	180	120	300	2800	50	85	70	105	33		
BH1	1-1.2	Fill: silty sand	Coarse	NA	NA	NA	100	203	88	1263	35	192	--	--	180	120	300	2800	50	85	70	105	33		
BH1	1.5-1.95	Clayey sand	Coarse	NA	NA	NA	100	203	88	1263	35	192	--	--	180	120	300	2800	50	85	70	105	33		
BH2	0.4-0.5	Fill: silty sand	Coarse	NA	NA	NA	100	203	88	1263	35	192	--	--	180	120	300	2800	50	85	70	105	33		
BH2	1-1.2	Fill: silty sand	Coarse	9.7	6	123	100	413	218	1263	175	522	170	180	180	120	300	2800	50	85	70	105	33		
BH2	1.5-1.95	Clayey sand	Coarse	NA	NA	NA	100	203	88	1263	35	192	--	--	180	120	300	2800	50	85	70	105	33		
BH2	2.5-2.8	Silty sand	Coarse	NA	NA	NA	100	203	88	1263	35	192	--	--	180	120	300	2800	50	85	70	105	33		
BH3	0.1-0.3	Fill: silty sand	Coarse	NA	NA	NA	100	203	88	1263	35	192	170	180	180	120	300	2800	50	85	70	105	33		
BH3	0.5-0.95	Fill: silty sand	Coarse	NA	NA	NA	100	203	88	1263	35	192	--	--	180	120	300	2800	50	85	70	105	33		
BH3	1.5-1.95	Fill: silty sand	Coarse	NA	NA	NA	100	203	88	1263	35	192	--	--	180	120	300	2800	50	85	70	105	33		
BH3	6-6.45	Fill: silty sand	Coarse	NA	NA	NA	100	203	88	1263	35	192	--	--	180	120	300	2800	50	85	70	105	33		
BH3	7.5-7.95	Sandy clay	Fine	NA	NA	NA	100	203	88	1263	35	192	--	--	180	120	1300	5600	60	105	125	45	33		
BH4	0.1-0.2	Fill: silty sand	Coarse	NA	NA	NA	100	203	88	1263	35	192	--	--	180	120	300	2800	50	85	70	105	33		
BH4	0.6-0.95	Fill: silty sand	Coarse	NA	NA	NA	100	203	88	1263	35	192	170	180	180	120	300	2800	50	85	70	105	33		
BH4	1.5-1.95	Fill: silty sand	Coarse	NA	NA	NA	100	203	88	1263	35	192	--	--	180	120	300	2800	50	85	70	105	33		
BH4	3-3.45	Fill: silty sand	Coarse	NA	NA	NA	100	203	88	1263	35	192	--	--	180	120	300	2800	50	85	70	105	33		
BH5	0.2-0.4	Fill: silty sand	Coarse	NA	NA	NA	100	203	88	1263	35	192	170	180	180	120	300	2800	50	85	70	105	33		
BH5	0.5-0.95	Fill: silty sand	Coarse	NA	NA	NA	100	203	88	1263	35	192	--	--	180	120	300	2800	50	85	70	105	33		
BH5	1.5-1.95	Fill: silty sand	Coarse	NA	NA	NA	100	203	88	1263	35	192	--	--	180	120	300	2800	50	85	70	105	33		
BH5	3-3.45	Fill: silty sand	Coarse	NA	NA	NA	100	203	88	1263	35	192	--	--	180	120	300	2800	50	85	70	105	33		
BH6	0.05-0.15	Fill: sandy gravel	Coarse	9.3	4	34	100	413	123	1263	35	352	170	180	180	120	300	2800	50	85	70	105	33		
BH6	0.5-0.95	Fill: silty sand	Coarse	NA	NA	NA	100	203	88	1263	35	192	--	--	180	120	300	2800	50	85	70	105	33		
BH6	1.5-1.95	Fill: silty sand	Coarse	8.3	15	9.8	100	413	238	1263	275	822	--	--	180	120	300	2800	50	85	70	105	33		
BH6	3-3.45	Fill: silty sand	Coarse	NA	NA	NA	100	203	88	1263	35	192	--	--	180	120	300	2800	50	85	70	105	33		
BH6	6-6.45	Fill: silty sand	Coarse	NA	NA	NA	100	203	88	1263	35	192	--	--	180	120	300	2800	50	85	70	105	33		
BH7	0.05-0.1	Fill: gravelly sand	Coarse	NA	NA	NA	100	203	88	1263	35	192	--	--	180	120	300	2800	50	85	70	105	33		
BH7	0.4-0.5	Fill: silty sand	Coarse	NA	NA	NA	100	203	88	1263	35	192	170	180	180	120	300	2800	50	85	70	105	33		
BH7	1.5-1.95	Fill: silty sand	Coarse	NA	NA	NA	100	203	88	1263	35	192	--	--	180	120	300	2800	50	85	70	105	33		
BH7	6-6.45	Fill: silty sand	Coarse	NA	NA	NA	100	203	88	1263	35	192	--	--	180	120	300	2800	50	85	70	105	33		
BH8	0.5-0.7	Fill: clayey sand	Coarse	NA	NA	NA	100	203	88	1263	35	192	--	--	180	120	300	2800	50	85	70	105	33		
BH8	1.5-1.95	Fill: silty sand	Coarse	NA	NA	NA	100	203	88	1263	35	192	170	180	180	120	300	2800	50	85	70	105	33		
BH8	4.5-4.95	Fill: silty sand	Coarse	NA	NA	NA	100	203	88	1263	35	192	--	--	180	120	300	2800	50	85	70	105	33		

TABLE D SOIL LABORATORY RESULTS COMPARED TO WASTE CLASSIFICATION GUIDELINES All data in mg/kg unless stated otherwise																											
			HEAVY METALS							PAHs		OC/OP PESTICIDES				Total PCBs	TRH					BTEX COMPOUNDS				ASBESTOS FIBRES	
			Arsenic	Cadmium	Chromium	Copper	Lead	Mercury	Nickel	Zinc	Total PAHs	B(a)P	Total Endosulfans	Chloropyrifos	Total Moderately Harmful ²		Total Scheduled ³	C ₆ -C ₉	C ₁₀ -C ₁₄	C ₁₅ -C ₂₈	C ₂₉ -C ₃₆	Total C ₁₀ -C ₃₆	Benzene	Toluene	Ethyl benzene		Total Xylenes
PQL - Envirolab Services			4	0.4	1	1	1	0.1	1	1	-	0.05	0.1	0.1	0.1	0.1	0.1	25	50	100	100	250	0.2	0.5	1	3	100
General Solid Waste CT1 ¹			100	20	100	NSL	100	4	40	NSL	200	0.8	60	4	250	<50	<50	650		NSL		10,000	10	288	600	1,000	-
General Solid Waste SCC1 ¹			500	100	1900	NSL	1500	50	1050	NSL	200	10	108	7.5	250	<50	<50	650		NSL		10,000	18	518	1,080	1,800	-
Restricted Solid Waste CT2 ¹			400	80	400	NSL	400	16	160	NSL	800	3.2	240	16	1000	<50	<50	2600		NSL		40,000	40	1,152	2,400	4,000	-
Restricted Solid Waste SCC2 ¹			2000	400	7600	NSL	6000	200	4200	NSL	800	23	432	30	1000	<50	<50	2600		NSL		40,000	72	2,073	4,320	7,200	-
Sample Reference	Sample Depth	Sample Description																									
BH1	0.1-0.2	Fill: silty sand	LPQL	LPQL	13	43	33	LPQL	11	48	3.3	0.1	LPQL	LPQL	LPQL	LPQL	0.1	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL
BH1	1-1.2	Fill: silty sand	5	LPQL	18	57	59	0.3	16	65	3.2	0.3	NA	NA	NA	NA	NA	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL
BH1	1.5-1.95	Clayey sand	LPQL	LPQL	5	4	20	LPQL	LPQL	3	LPQL	LPQL	NA	NA	NA	NA	NA	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL
BH2	0.4-0.5	Fill: silty sand	LPQL	LPQL	18	41	18	0.1	74	100	3.8	0.3	NA	NA	NA	NA	NA	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL
BH2	1-1.2	Fill: silty sand	LPQL	LPQL	15	55	19	0.1	110	94	3.2	0.2	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL
BH2	1.5-1.95	Clayey sand	5	LPQL	7	8	19	0.2	1	17	LPQL	LPQL	NA	NA	NA	NA	NA	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL
BH2	2.5-2.8	Silty sand	4	LPQL	14	13	13	LPQL	5	44	LPQL	LPQL	NA	NA	NA	NA	NA	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	NA
BH3	0.1-0.3	Fill: silty sand	5	LPQL	15	48	110	0.5	8	130	12	0.98	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	130	LPQL	130	LPQL	LPQL	LPQL	LPQL	LPQL
BH3	0.5-0.95	Fill: silty sand	5	LPQL	14	58	110	0.6	6	110	19	1.7	NA	NA	NA	NA	NA	LPQL	LPQL	110	110	220	LPQL	LPQL	LPQL	LPQL	LPQL
BH3	1.5-1.95	Fill: silty sand	5	LPQL	10	78	290	0.3	3	120	LPQL	LPQL	NA	NA	NA	NA	NA	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL
BH3	6-6.45	Fill: silty sand	6	LPQL	18	24	99	0.4	6	50	3.8	0.2	NA	NA	NA	NA	NA	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	NA
BH3	7.5-7.95	Sandy clay	LPQL	LPQL	9	4	27	0.2	1	39	0.64	0.07	NA	NA	NA	NA	NA	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	NA
BH4	0.1-0.2	Fill: silty sand	LPQL	LPQL	6	5	15	LPQL	2	18	1.3	0.1	NA	NA	NA	NA	NA	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL
BH4	0.6-0.95	Fill: silty sand	4	LPQL	18	26	89	0.4	11	92	5.5	0.51	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL
BH4	1.5-1.95	Fill: silty sand	8	LPQL	16	42	53	0.4	21	41	1.4	0.1	NA	NA	NA	NA	NA	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL
BH4	3-3.45	Fill: silty sand	LPQL	LPQL	8	20	89	0.3	13	59	2.2	0.2	NA	NA	NA	NA	NA	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL
BH5	0.2-0.4	Fill: silty sand	LPQL	LPQL	14	27	42	0.2	8	39	3.9	0.4	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL
BH5	0.5-0.95	Fill: silty sand	LPQL	LPQL	20	27	36	0.1	24	43	11	0.83	NA	NA	NA	NA	NA	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	NA
BH5	1.5-1.95	Fill: silty sand	5	LPQL	17	110	170	1.5	14	100	14	1.1	NA	NA	NA	NA	NA	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL
BH5	3-3.45	Fill: silty sand	5	LPQL	19	49	80	0.4	17	50	13	1.1	NA	NA	NA	NA	NA	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL
BH6	0.05-0.15	Fill: sandy gravel	LPQL	LPQL	3	220	10	1.5	6	43	0.3	0.05	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL
BH6	0.5-0.95	Fill: silty sand	11	LPQL	12	64	130	0.4	10	160	98	8.9	NA	NA	NA	NA	NA	LPQL	LPQL	370	300	670	LPQL	LPQL	LPQL	LPQL	LPQL
BH6	1.5-1.95	Fill: silty sand	9	LPQL	13	46	310	1.8	13	420	17	1.5	NA	NA	NA	NA	NA	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	NA
BH6	3-3.45	Fill: silty sand	7	LPQL	12	110	400	2.1	5	200	11	0.88	NA	NA	NA	NA	NA	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL
BH6	6-6.45	Fill: silty sand	5	LPQL	13	13	61	0.3	5	28	8.8	0.7	NA	NA	NA	NA	NA	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	NA
BH7	0.05-0.1	Fill: gravelly sand	LPQL	LPQL	5	150	10	0.1	6	41	0.4	0.06	NA	NA	NA	NA	NA	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL
BH7	0.4-0.5	Fill: silty sand	LPQL	LPQL	26	21	14	LPQL	10	51	0.1	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	100	100	LPQL	LPQL	LPQL	LPQL	LPQL
BH7	1.5-1.95	Fill: silty sand	5	LPQL	9	13	89	0.2	4	60	1.6	0.2	NA	NA	NA	NA	NA	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL
BH7	6-6.45	Fill: silty sand	5	LPQL	15	22	98	0.6	7	120	5.1	0.4	NA	NA	NA	NA	NA	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	NA
BH8	0.5-0.7	Fill: clayey sand	26	LPQL	20	10	32	0.3	4	54	0.3	0.05	NA	NA	NA	NA	NA	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL
BH8	1.5-1.95	Fill: silty sand	5	LPQL	16	19	110	2.4	2	25	6.7	0.51	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL
BH8	4.5-4.95	Fill: silty sand	6	LPQL	16	34	90	0.4	9	54	3.7	0.3	NA	NA	NA	NA	NA	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL
Total Number of samples			32	32	32	32	32	32	32	32	32	32	8	8	8	8	8	32	32	32	32	32	32	32	32	32	25
Maximum Value			26	LPQL	26	220	400	2.4	110	420	98	8.9	LPQL	LPQL	LPQL	LPQL	0.1	LPQL	LPQL	370	300	670	LPQL	LPQL	LPQL	LPQL	NC
Explanation: ¹ - NSW EPA Waste Classification Guidelines, Part 1: Classifying Waste (2014) ² - Assessment of Total Moderately Harmful pesticides includes: Dichlorovos, Dimethoate, Fenitrothion, Ethion, Malathion and Parathion ³ - Assessment of Total Scheduled pesticides include: HBC, alpha-BHC, gamma-BHC, beta-BHC, Heptachlor, Aldrin, Heptachlor Epoxide, gamma-Chlordane, alpha-chlordane, pp-DDE, Dieldrin, Endrin, pp-DDD, pp-DDT, Endrin Aldehyde																											
Concentration above the CT1			VALUE																								
Concentration above SCC1			VALUE																								
Concentration above the SCC2			VALUE																								
Abbreviations: PAHs: Polycyclic Aromatic Hydrocarbons B(a)P: Benzo(a)pyrene PQL: Practical Quantitation Limit LPQL: Less than PQL PID: Photoionisation Detector PCBs: Polychlorinated Biphenyls UCL: Upper Level Confidence Limit on Mean Value NA: Not Analysed NC: Not Calculated NSL: No Set Limit SAC: Site Assessment Criteria TRH: Total Recoverable Hydrocarbons CT: Contaminant Threshold SCC: Specific Contaminant Concentration HILs: Health Investigation Levels NEPM: National Environmental Protection Measure BTEX: Monocyclic Aromatic Hydrocarbons																											

TABLE E
SOIL LABORATORY TCLP RESULTS
All data in mg/L unless stated otherwise

			Lead	Nickel	B(a)P
PQL - Envirolab Services			0.03	0.02	0.001
TCLP1 - General Solid Waste ¹			5	2	0.04
TCLP2 - Restricted Solid Waste ¹			20	8	0.16
TCLP3 - Hazardous Waste ¹			>20	>8	>0.16
Sample Reference	Sample Depth	Sample Description			
BH2	0.4-0.5	Fill: silty sand	NA	LPQL	NA
BH2	1-1.2	Fill: silty sand	NA	0.08	NA
BH3	0.1-0.3	Fill: silty sand	0.1	NA	LPQL
BH3	0.5-0.95	Fill: silty sand	0.2	NA	LPQL
BH3	1.5-1.95	Fill: silty sand	0.08	NA	NA
BH5	0.5-0.95	Fill: silty sand	NA	NA	LPQL
BH5	1.5-1.95	Fill: silty sand	0.3	NA	LPQL
BH5	3-3.45	Fill: silty sand	NA	NA	LPQL
BH6	0.5-0.95	Fill: silty sand	0.08	NA	LPQL
BH6	1.5-1.95	Fill: silty sand	0.32	NA	NA
BH6	3-3.45	Fill: silty sand	0.54	NA	LPQL
BH8	1.5-1.95	Fill: silty sand	LPQL	NA	NA
Total Number of samples			8	2	7
Maximum Value			0.54	0.08	LPQL

Explanation:

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

General Solid Waste

VALUE

Restricted Solid Waste

VALUE

Hazardous Waste

VALUE

Abbreviations:

PQL: Practical Quantitation Limit

LPQL: Less than PQL

B(a)P: Benzo(a)pyrene

NC: Not Calculated

NA: Not Analysed

TCLP: Toxicity Characteristics Leaching Procedure

TABLE F
SOIL INTRA-LABORATORY DUPLICATE RESULTS & RPD CALCULATIONS
All results in mg/kg unless stated otherwise

SAMPLE	ANALYSIS	Envirolab PQL	INITIAL	REPEAT	MEAN	RPD %
Sample Ref = BH6 (0.05-0.15m) Dup Ref = Dup 2 Envirolab Report: 165375	Arsenic	4	LPQL	LPQL	NC	NC
	Cadmium	0.4	LPQL	LPQL	NC	NC
	Chromium	1	3	3	3.0	0
	Copper	1	220	190	205.0	15
	Lead	1	10	9	9.5	11
	Mercury	0.1	1.5	LPQL	0.8	187
	Nickel	1	6	6	6.0	0
	Zinc	1	43	42	42.5	2
	Naphthalene	0.1	LPQL	LPQL	NC	NC
	Acenaphthylene	0.1	LPQL	LPQL	NC	NC
	Acenaphthene	0.1	LPQL	LPQL	NC	NC
	Fluorene	0.1	LPQL	LPQL	NC	NC
	Phenanthrene	0.1	0.1	LPQL	0.1	67
	Anthracene	0.1	LPQL	LPQL	NC	NC
	Fluoranthene	0.1	0.2	0.2	0.2	0
	Pyrene	0.1	0.2	0.2	0.2	0
	Benzo(a)anthracene	0.1	LPQL	LPQL	NC	NC
	Chrysene	0.1	0.1	LPQL	0.1	67
	Benzo(b,j+k)fluoranthene	0.2	LPQL	LPQL	NC	NC
	Benzo(a)pyrene	0.05	0.07	0.07	0.1	0
	Indeno(123-cd)pyrene	0.1	LPQL	LPQL	NC	NC
	Dibenzo(ah)anthracene	0.1	LPQL	LPQL	NC	NC
	Benzo(ghi)perylene	0.1	LPQL	LPQL	NC	NC
	TRH C6-C10 (F1)	25	LPQL	LPQL	NC	NC
	TRH >C10-C16 (F2)	50	LPQL	LPQL	NC	NC
	TRH >C16-C34 (F3)	100	LPQL	LPQL	NC	NC
	TRH >C34-C40 (F4)	100	LPQL	LPQL	NC	NC
	Benzene	0.5	LPQL	LPQL	NC	NC
	Toluene	0.5	LPQL	LPQL	NC	NC
	Ethylbenzene	1	LPQL	LPQL	NC	NC
	m+p-xylene	2	LPQL	LPQL	NC	NC
	o-xylene	1	LPQL	LPQL	NC	NC

Explanation:

The RPD value is calculated as the absolute value of the difference between the initial and repeat results divided by the average value expressed as a percentage. The following acceptance criteria will be used to assess the RPD results:

Results > 10 times PQL = RPD value <= 50% are acceptable

Results between 5 & 10 times PQL = RPD value <= 75% are acceptable

Results < 5 times PQL = RPD value <= 100% are acceptable

If result is LPQL then 50% of the PQL is used for the calculation

RPD Results Above the Acceptance Criteria

VALUE

Abbreviations:

PQL: Practical Quantitation Limit

LPQL: Less than PQL

NA: Not Analysed

NC: Not Calculated

OCP: Organochlorine Pesticides

OPP: Organophosphorus Pesticides

PCBs: Polychlorinated Biphenyls

TRH: Total Recoverable Hydrocarbons

TABLE G
SOIL INTER-LABORATORY DUPLICATE RESULTS & RPD CALCULATIONS
All results in mg/kg unless stated otherwise

SAMPLE	ANALYSIS	EnviroLab PQL	EnviroLab VIC PQL	INITIAL	REPEAT	MEAN	RPD %
Sample Ref = BH2 (1-1.2m) Dup Ref = Dup 3 EnviroLab Report: 165375 EnviroLab VIC Report: 194747	Arsenic	4	4	LPQL	LPQL	NC	NC
	Cadmium	0.4	0.4	LPQL	LPQL	NC	NC
	Chromium	1	1	15	17	16.0	13
	Copper	1	1	55	55	55.0	0
	Lead	1	1	19	15	17.0	24
	Mercury	0.1	0.1	0.1	0.1	0.1	0
	Nickel	1	1	110	120	115.0	9
	Zinc	1	1	94	90	92.0	4
	Naphthalene	0.1	0.1	LPQL	LPQL	NC	NC
	Acenaphthylene	0.1	0.1	LPQL	LPQL	NC	NC
	Acenaphthene	0.1	0.1	LPQL	LPQL	NC	NC
	Fluorene	0.1	0.1	LPQL	LPQL	NC	NC
	Phenanthrene	0.1	0.1	0.4	0.3	0.4	29
	Anthracene	0.1	0.1	LPQL	LPQL	NC	NC
	Fluoranthene	0.1	0.1	0.6	0.6	0.6	0
	Pyrene	0.1	0.1	0.7	0.7	0.7	0
	Benzo(a)anthracene	0.1	0.1	0.3	0.2	0.3	40
	Chrysene	0.1	0.1	0.3	0.3	0.3	0
	Benzo(b,j,k)fluoranthene	0.2	0.2	0.4	0.4	0.4	0
	Benzo(a)pyrene	0.05	0.05	0.2	0.26	0.2	26
	Indeno(123-cd)pyrene	0.1	0.1	0.1	0.2	0.2	67
	Dibenzo(ah)anthracene	0.1	0.1	LPQL	LPQL	NC	NC
	Benzo(ghi)perylene	0.1	0.1	0.1	0.2	0.2	67
	Benzo(a)pyrene TEQ	0.5	0.5	LPQL	LPQL	NC	NC
	TRH C6-C10 (F1)	25	25	LPQL	LPQL	NC	NC
	TRH >C10-C16 (F2)	50	50	LPQL	LPQL	NC	NC
	TRH >C16-C34 (F3)	100	100	LPQL	LPQL	NC	NC
	TRH >C34-C40 (F4)	100	100	LPQL	LPQL	NC	NC
	Benzene	0.5	0.5	LPQL	LPQL	NC	NC
	Toluene	0.5	0.5	LPQL	LPQL	NC	NC
	Ethylbenzene	1	1	LPQL	LPQL	NC	NC
	m+p-xylene	2	2	LPQL	LPQL	NC	NC
	o-xylene	1	1	LPQL	LPQL	NC	NC

Explanation:

The RPD value is calculated as the absolute value of the difference between the initial and repeat results divided by the average value expressed as a percentage. The following acceptance criteria will be used to assess the RPD results:

Results > 10 times PQL = RPD value <= 50% are acceptable

Results between 5 & 10 times PQL = RPD value <= 75% are acceptable

Results < 5 times PQL = RPD value <= 100% are acceptable

If result is LPQL then 50% of the PQL is used for the calculation

RPD Results Above the Acceptance Criteria

VALUE

Abbreviations:

PQL: Practical Quantitation Limit

LPQL: Less than PQL

NA: Not Analysed

NC: Not Calculated

OCP: Organochlorine Pesticides

OPP: Organophosphorus Pesticides

PCBs: Polychlorinated Biphenyls

TRH: Total Recoverable Hydrocarbons

TABLE H
SUMMARY OF FIELD QA/QC RESULTS

ANALYSIS	EnviroLab PQL		TB ^s	FR ^s	TS ^s
	mg/kg	µg/L	11/04/2017	12/04/2017	10/04/2017
			mg/kg	mg/kg	% Recovery
Benzene	1	1	LPQL	LPQL	106
Toluene	1	1	LPQL	LPQL	104
Ethylbenzene	1	1	LPQL	LPQL	101
m+p-xylene	2	2	LPQL	LPQL	101
o-xylene	1	1	LPQL	LPQL	99

Explanation:

^w Sample type (water)

^s Sample type (sand)

BTEX concentrations in trip spikes are presented as % recovery

Values above PQLs/Acceptance criteria

VALUE

Abbreviations:

PQL: Practical Quantitation Limit

TB: Trip Blank

LPQL: Less than PQL

TS: Trip Spike

NA: Not Analysed

RS: Rinsate Sample

NC: Not Calculated

TRH: Total Recoverable Hydrocarbons

REPORT APPENDICES

Appendix A: Borehole Logs

BOREHOLE LOG

Client: DESIGNINC SYDNEY PTY LTD
Project: PROPOSED REDEVELOPMENT OF ULTIMO PUBLIC SCHOOL
Location: ULTIMO PUBLIC SCHOOL, QUARRY ROAD, ULTIMO, NSW

Job No.: 30361SB **Method:** SPIRAL AUGER **R.L. Surface:** ~3.9 m
Date: 12/4/17 TO 13/4/17 **Datum:** AHD
Plant Type: JK205 **Logged/Checked By:** M.S./D.B.

Groundwater Record	SAMPLES				Field Tests	RL (m AHD)	Depth (m)	Graphic Log	Unified Classification	DESCRIPTION	Moisture Condition/ Weathering	Strength/ Rel Density	Hand Penetrometer Readings (kPa)	Remarks
	ES	U50	DB	DS										
ON COMPLETION OF AUGERING									-	ASPHALTIC CONCRETE: 30mm.t FILL: Silty sand, fine to medium grained, brown, with fine grained igneous gravel.	D			ROADBASE
					N = 15 5,8,7		3			as above, but dark grey, with fine to medium grained igneous and sandstone gravel.				APPEARS MODERATELY TO WELL COMPACTED
							1			as above, but dark grey and orange brown.				
										as above, but orange brown.				
					N = 8 4,5,3		2			FILL: Clayey sand, fine to medium grained, light grey mottled red and yellow brown, trace of fine to medium grained ironstone gravel.	M			
									SC	CLAYEY SAND: fine to medium grained, grey.	W	VL		ALLUVIAL
							1			as above, but with bands of clayey silt.				
					N = 2 3,1,1		3							
							0			as above, but grey and grey brown,		MD		
					N = 12 4,7,5		-1			CLAYEY SAND: fine to medium grained, yellow brown mottled red brown and grey brown.				
					N=SPT 3/ 20mm REFUSAL		-2			SANDSTONE: fine to medium grained, light grey and yellow brown.	DW	L - M		LOW TO MODERATE 'TC' BIT RESISTANCE
							-3				XW	EL		SOIL RESISTANCE



Borehole No.
1
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BOREHOLE LOG

Client: DESIGNINC SYDNEY PTY LTD
Project: PROPOSED REDEVELOPMENT OF ULTIMO PUBLIC SCHOOL
Location: ULTIMO PUBLIC SCHOOL, QUARRY ROAD, ULTIMO, NSW

Job No.: 30361SB **Method:** SPIRAL AUGER **R.L. Surface:** ~3.9 m
Date: 12/4/17 TO 13/4/17 **Datum:** AHD
Plant Type: JK205 **Logged/Checked By:** M.S./D.B.

Groundwater Record	SAMPLES				Field Tests	RL (m AHD)	Depth (m)	Graphic Log	Unified Classification	DESCRIPTION	Moisture Condition/ Weathering	Strength/ Rel Density	Hand Penetrometer Readings (kPa)	Remarks
	ES	U50	DB	DS										
										SANDSTONE: fine to medium grained, light grey and yellow brown. (continued)	XW	EL		
										REFER TO CORED BOREHOLE LOG				
							-4	8						
							-5	9						
							-6	10						
							-7	11						
							-8	12						
							-9	13						
							-10							

CORED BOREHOLE LOG

Client: DESIGNINC SYDNEY PTY LTD
Project: PROPOSED REDEVELOPMENT OF ULTIMO PUBLIC SCHOOL
Location: ULTIMO PUBLIC SCHOOL, QUARRY ROAD, ULTIMO, NSW

Job No.: 30361SB **Core Size:** NMLC **R.L. Surface:** ~3.9 m
Date: 12/4/17 TO 13/4/17 **Inclination:** VERTICAL **Datum:** AHD
Plant Type: JK205 **Bearing:** N/A **Logged/Checked By:** M.S./D.B.

Water Loss/Level	Barrel Lift	RL (m AHD)	Depth (m)	Graphic Log	CORE DESCRIPTION Rock Type, grain characteristics, colour, structure, minor components.	Weathering	Strength	POINT LOAD STRENGTH INDEX $I_p(50)$	DEFECT DETAILS	
									DEFECT SPACING (mm)	DESCRIPTION Type, inclination, thickness, planarity, roughness, coating.
								EL-0.03 VL-0.1 L-0.3 M-1 H-3 VH-10 EH	500 300 100 50 30 10	Specific General
					START CORING AT 7.34m					
			4		SANDSTONE: fine to medium grained, light grey, with dark grey laminae, bedded at 0-10°, with quartz inclusions.	SW	M			(7.65m) XWS, 0°, 15 mm.t
			8		as above, but orange brown mottled light grey, with dark grey laminae, bedded at 10-20°.					(7.81m) J, 35°, P
										(8.11m) Be, 20°, P, R
			5							(8.80m) Be, 0°, P, R
			9		CORE LOSS 1.08m					(8.95m) J, 35°, P, R
										(8.96m) J, 80°, P, R
			6							
			10							
					SANDSTONE: fine to medium grained, yellow brown and brown mottled light grey, bedded at 10-25°, with quartz inclusions.	XW DW - SW	EL M H			(10.32m) J, 80°, Un
			7							(10.50m) XWS, 30°, 5 mm.t
			11							(10.90m) J, 90°, Un
										(10.97m) Be, 20°, P, R
			8							(11.93m) Be, 0°, P, R
			12							(11.94m) J, 85°, P, R
			9							(12.82m) XWS, 0°, 70 mm.t
			13							(13.21m) J, 75°, P, R
					END OF BOREHOLE AT 13.31 m					
			10							

JK_LIB_CURRENT - V8.00.GLB Log J & K CORED BOREHOLE - MASTER 30361SB ULTIMO.GPJ <<DrawingFiles>> 11/05/2017 14:22 Produced by gINT Professional. Developed by Datgel

BOREHOLE LOG

Client: DESIGNINC SYDNEY PTY LTD
Project: PROPOSED REDEVELOPMENT OF ULTIMO PUBLIC SCHOOL
Location: ULTIMO PUBLIC SCHOOL, QUARRY ROAD, ULTIMO, NSW

Job No.: 30361SB **Method:** SPIRAL AUGER **R.L. Surface:** ~4 m
Date: 13/4/17 **Datum:** AHD
Plant Type: JK205 **Logged/Checked By:** M.S./D.B.

Groundwater Record	SAMPLES				Field Tests	RL (m AHD)	Depth (m)	Graphic Log	Unified Classification	DESCRIPTION	Moisture Condition/Weathering	Strength/Rel Density	Hand Penetrometer Readings (kPa)	Remarks
	ES	U50	DB	DS										
ON COMPLETION OF CORING							3	1		ASPHALTIC CONCRETE: 30mm.t FILL: Silty sand, fine to medium grained, brown, with fine to medium grained igneous gravel. FILL: Gravelly sand, fine to coarse grained, fine to coarse grained, dark grey. FILL: Silty sand, fine to coarse grained, green grey, with fine to medium grained igneous gravel, trace of clay and slag.	M			ROAD BASE APPEARS WELL COMPACTED
					N = 17 11,11,6									
							2	2	SC	CLAYEY SAND: fine to coarse grained, light grey mottled red and yellow brown.	M	L		POSSIBLY FILL
					N = 5 5,3,2									
ON COMPLETION OF AUGERING							1	3	SM	SILTY SAND: fine to medium grained, grey and dark red brown, trace of fine to medium grained ironstone gravel.	W	VL		ALLUVIAL
					N > 2 0.2/ 120mm REFUSAL									
										SANDSTONE: fine to medium grained, yellow brown, with XW bands.	DW	L - M		LOW TO MODERATE 'TC' BIT RESISTANCE
										as above, but yellow brown and light grey.		M - H		HIGH RESISTANCE
							0	4		REFER TO CORED BOREHOLE LOG				
							-1	5						
							-2	6						

CORED BOREHOLE LOG

Client: DESIGNINC SYDNEY PTY LTD
Project: PROPOSED REDEVELOPMENT OF ULTIMO PUBLIC SCHOOL
Location: ULTIMO PUBLIC SCHOOL, QUARRY ROAD, ULTIMO, NSW

Job No.: 30361SB **Core Size:** NMLC **R.L. Surface:** ~4 m
Date: 13/4/17 **Inclination:** VERTICAL **Datum:** AHD
Plant Type: JK205 **Bearing:** N/A **Logged/Checked By:** M.S./D.B.

Water Loss Level	Barrel Lift	RL (m AHD)	Depth (m)	Graphic Log	CORE DESCRIPTION Rock Type, grain characteristics, colour, structure, minor components.	Weathering	Strength	POINT LOAD STRENGTH INDEX $I_p(50)$	DEFECT DETAILS	
									DEFECT SPACING (mm)	DESCRIPTION Type, inclination, thickness, planarity, roughness, coating.
								EL-0.03 VL-0.1 L-0.3 M-1 H-3 VH-10 EH	500 300 100 50 30 10	Specific General
					START CORING AT 3.76m					
			0	4	SANDSTONE: fine to medium grained, yellow brown and light grey.	SW	M			(4.04m) J, 10°, P, R
			-1	5	as above, but light grey mottled yellow brown, with dark grey laminae, bedded at 0-10°.		H			(4.77m) Be, 5°, P, R
			-2	6	as above, but light grey mottled yellow brown, with dark grey lenses.	FR				(5.62m) Be, 0°, P, R
			-3	7	END OF BOREHOLE AT 6.90 m					
			-4	8						
			-5	9						

BOREHOLE LOG

Client: DESIGNINC SYDNEY PTY LTD
Project: PROPOSED REDEVELOPMENT OF ULTIMO PUBLIC SCHOOL
Location: ULTIMO PUBLIC SCHOOL, QUARRY ROAD, ULTIMO, NSW

Job No.: 30361SB **Method:** SPIRAL AUGER **R.L. Surface:** ~10.4 m
Date: 10/4/17 TO 11/4/17 **Datum:** AHD
Plant Type: JK205 **Logged/Checked By:** M.S./D.B.

Groundwater Record	SAMPLES				Field Tests	RL (m AHD)	Depth (m)	Graphic Log	Unified Classification	DESCRIPTION	Moisture Condition/ Weathering	Strength/ Rel Density	Hand Penetrometer Readings (kPa)	Remarks
	ES	U50	DB	DS										
										CONCRETE: 100mm.t				
							10			FILL: Silty sand, fine to medium grained, dark brown, trace of fine to medium grained sandstone gravel.	M			APPEARS WELL COMPACTED
					N > 15 12,15/ 100mm REFUSAL		1			FILL: Silty clay, medium plasticity, dark grey and brown, with fine to medium grained sand, fine to medium grained sandstone gravel, trace of slag and ash.	MC~PL			
							9			FILL: Silty sand, fine to medium grained, dark brown, with bands of silty clay, fine to medium grained sandstone and igneous gravel, trace of slag and ash.	M			APPEARS POORLY COMPACTED
					N = 7 4,4,3		2							
							8							
							3			as above, but trace of clay, fine to coarse grained sandstone gravel, slag, ash and brick fragments.				
					N = 12 2,5,7		7							APPEARS MODERATELY COMPACTED
							4							
							6			as above, but with fine to coarse grained sandstone gravel, fine grained slag gravel, ash and brick fragments.				
					N = 10 6,6,4		5							
							5							
							6							
					N = 9 3,3,6		4							



Borehole No.
3
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BOREHOLE LOG

Client: DESIGNINC SYDNEY PTY LTD
Project: PROPOSED REDEVELOPMENT OF ULTIMO PUBLIC SCHOOL
Location: ULTIMO PUBLIC SCHOOL, QUARRY ROAD, ULTIMO, NSW

Job No.: 30361SB **Method:** SPIRAL AUGER **R.L. Surface:** ~10.4 m
Date: 10/4/17 TO 11/4/17 **Datum:** AHD
Plant Type: JK205 **Logged/Checked By:** M.S./D.B.

Groundwater Record	SAMPLES				Field Tests	RL (m AHD)	Depth (m)	Graphic Log	Unified Classification	DESCRIPTION	Moisture Condition/ Weathering	Strength/ Rel Density	Hand Penetrometer Readings (kPa)	Remarks
	ES	U50	DB	DS										
ON COMPLETION OF AUGERING							3		-	FILL: Silty sand, fine to medium grained, dark brown, with sandstone gravel, slag gravel, ash and brick fragments.	M			
					N = 6 2,1,5		8		CL-CH	SANDY CLAY: medium to high plasticity, dark grey mottled red brown and yellow brown.	MC>PL	(S - F)		POSSIBLY FILL
										SANDSTONE: fine to medium grained, light grey mottled yellow brown.	SW	M - H		HIGH 'TC' BIT RESISTANCE
							2			REFER TO CORED BOREHOLE LOG				
							9							
							1							
							10							
							0							
							11							
							-1							
							12							
							-2							
							13							
							-3							

CORED BOREHOLE LOG

Client: DESIGNINC SYDNEY PTY LTD
Project: PROPOSED REDEVELOPMENT OF ULTIMO PUBLIC SCHOOL
Location: ULTIMO PUBLIC SCHOOL, QUARRY ROAD, ULTIMO, NSW

Job No.: 30361SB **Core Size:** NMLC **R.L. Surface:** ~10.4 m
Date: 10/4/17 TO 11/4/17 **Inclination:** VERTICAL **Datum:** AHD
Plant Type: JK205 **Bearing:** N/A **Logged/Checked By:** M.S./D.B.

Water Loss Level	Barrel Lift	RL (m AHD)	Depth (m)	Graphic Log	CORE DESCRIPTION Rock Type, grain characteristics, colour, structure, minor components.	Weathering	Strength	POINT LOAD STRENGTH INDEX I _s (50)	DEFECT DETAILS	
									DEFECT SPACING (mm)	DESCRIPTION Type, inclination, thickness, planarity, roughness, coating.
								EL-0.03 VL-0.1 L-0.3 M-1 H-3 VH-10 EH	500 300 100 50 30 10	Specific General
					START CORING AT 8.22m					
		2			SANDSTONE: fine to medium grained, light grey, red and yellow brown, cross bedded at 0-15°, with quartz inclusions.	SW	H			(8.29m) Be, 0°, P, R
		9			as above, but light grey mottled red and yellow brown, with dark brown laminae, cross bedded at 10-20°.					
		1								
		10								
		0			SANDSTONE: fine to medium grained, light grey, with dark grey laminae, bedded at 5-15°.	FR				(10.23m) XWS, 5°, 5 mm.t
		11								
		-1			END OF BOREHOLE AT 11.33 m					
		12								
		-2								
		13								
		-3								
		14								
		-4								



Borehole No.
4
1 / 2

BOREHOLE LOG

Client: DESIGNINC SYDNEY PTY LTD
Project: PROPOSED REDEVELOPMENT OF ULTIMO PUBLIC SCHOOL
Location: ULTIMO PUBLIC SCHOOL, QUARRY ROAD, ULTIMO, NSW

Job No.: 30361SB **Method:** SPIRAL AUGER **R.L. Surface:** ~10.3 m
Date: 10/4/17 **Datum:** AHD
Plant Type: JK205 **Logged/Checked By:** M.S./D.B.

Groundwater Record	SAMPLES				Field Tests	RL (m AHD)	Depth (m)	Graphic Log	Unified Classification	DESCRIPTION	Moisture Condition/ Weathering	Strength/ Rel Density	Hand Penetrometer Readings (kPa)	Remarks
	ES	U50	DB	DS										
DRY ON COMPLETION OF AUGERING						10				CONCRETE: 80mm.t	M			8mm DIA. REINFORCEMENT, 45mm TOP COVER
					N = 17 4,7,10		1			FILL: Silty sand, fine to coarse grained, yellow brown, trace of fine to medium grained sandstone gravel and root fibres.				APPEARS WELL COMPACTED
							9			as above, but brown, dark brown mottled red and yellow brown, with medium to coarse grained sandstone gravel and fine to medium grained igneous gravel.				
					N = 7 2,3,4		2			as above, but dark brown.				APPEARS POORLY COMPACTED
							8							
							3			as above, but trace of orange brown brick fragments.				
					N = 3 2,2,1		7							
							4			SANDSTONE: fine to medium grained, light brown.	DW	L		LOW TO MODERATE 'TC' BIT RESISTANCE
							6				SW	M - H		HIGH RESISTANCE
							5			REFER TO CORED BOREHOLE LOG				
							5							
							6							
							4							

Borehole No.

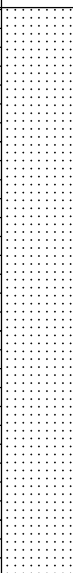
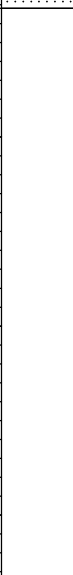
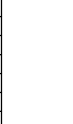
4

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CORED BOREHOLE LOG

Client: DESIGNINC SYDNEY PTY LTD
Project: PROPOSED REDEVELOPMENT OF ULTIMO PUBLIC SCHOOL
Location: ULTIMO PUBLIC SCHOOL, QUARRY ROAD, ULTIMO, NSW

Job No.: 30361SB **Core Size:** NMLC **R.L. Surface:** ~10.3 m
Date: 10/4/17 **Inclination:** VERTICAL **Datum:** AHD
Plant Type: JK205 **Bearing:** N/A **Logged/Checked By:** M.S./D.B.

Water Loss/Level	Barrel Lift	RL (m AHD)	Depth (m)	Graphic Log	CORE DESCRIPTION Rock Type, grain characteristics, colour, structure, minor components.	Weathering	Strength	POINT LOAD STRENGTH INDEX $I_p(50)$	DEFECT DETAILS	
									DEFECT SPACING (mm)	DESCRIPTION Type, inclination, thickness, planarity, roughness, coating.
								EL-0.03 VL-0.1 L-0.3 M-1 H-3 VH-10 EH	500 300 100 50 30 10	Specific General
ON COMPLETION OF CORING			6		START CORING AT 4.29m	SW	L	•	■	— (4.36m) Be, 0°, P, R
			5		SANDSTONE: fine to coarse grained, light grey mottled yellow and dark red brown, bedded at 0-15°.		M	•	■	— (4.53m) Be, 15°, P, R
			5		as above, but light grey, with dark brown laminae mottled yellow brown, bedded at 10-20°.	FR	L	•	■	— (5.59m) Be, 15°, P, R
			6				M	•	■	— (5.79m) XWS, 15°, 3 mm.t
0% RETURN			7		END OF BOREHOLE AT 7.32 m					
			4							
			3							
			3							
			8							
			2							
			9							
			1							
			10							
			0							

BOREHOLE LOG

Client: DESIGNINC SYDNEY PTY LTD
Project: PROPOSED REDEVELOPMENT OF ULTIMO PUBLIC SCHOOL
Location: ULTIMO PUBLIC SCHOOL, QUARRY ROAD, ULTIMO, NSW

Job No.: 30361SB **Method:** SPIRAL AUGER **R.L. Surface:** ~10.6 m
Date: 10/4/17 **Datum:** AHD
Plant Type: JK205 **Logged/Checked By:** M.S./D.B.

Groundwater Record	SAMPLES				Field Tests	RL (m AHD)	Depth (m)	Graphic Log	Unified Classification	DESCRIPTION	Moisture Condition/ Weathering	Strength/ Rel Density	Hand Penetrometer Readings (kPa)	Remarks
	ES	U50	DB	DS										
DRY ON COMPLETION OF AUGERING										CONCRETE: 180mm.t				
					N = 22 9,13,9	10			-	FILL: Silty sand, fine to medium grained, dark brown, with fine to medium grained igneous gravel, trace of fine to coarse grained sandstone gravel and slag.	M			APPEARS WELL COMPACTED
							1							
					N = 8 3,4,4	9			-	as above, but trace of ash.				APPEARS POORLY COMPACTED
							2							
						8								
					N = 16 3,7,9	7			-	as above, but trace of clay.				APPEARS MODERATELY COMPACTED
							3							
						4			-	SANDSTONE: fine to medium grained, dark red brown.	DW	M - H		HIGH 'TC' BIT RESISTANCE
							6			REFER TO CORED BOREHOLE LOG				