Appendix I: EIS (2014a) Summary Information

TABLE B
SOIL LABORATORY RESULTS COMPARED TO HIL
All data in mg/kg unless stated otherwise

			HEAVY METALS								PAHs		ORGANOCHLORINE PESTICIDES (OCPs)							OP PESTICIDES (OPPs)	TOTAL PCBs	ASBESTOS FIBRES
			Arsenic	Cadmium	Chromium	Copper	Lead	Mercury	Nickel	Zinc	Total PAHs	B(a)P TEQ [2]	HCB	Endosulfan	Methoxychlor	Aldrin & Dieldrin	Chlordane	DDT, DDD & DDE	Heptachlor	Chlorpyrifos		
PQL - Envirolab Services			4	0.5	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]			3000	900	nsl	240000	1500	730	6000	400000	4000	40	80	2000	2500	45	530	3600	50	2000	7	Detect/Not Detect
Sample Reference	**Sample Depth**	**Sample Description**																				
BH1	0.4-0.5	Fill: sand	9	LPQL	11	14	28	LPQL	6	110	2.81	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL
BH2	0.1-0.2	Fill: sand	LPQL	LPQL	9	47	2	LPQL	67	30	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL
BH2	2.8-3	Fill: silty clay	5	LPQL	15	11	38	0.1	7	30	14.8	2	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL
BH3	0.1-0.2	Fill: silty sand	LPQL	LPQL	LPQL	4	LPQL	LPQL	6	3	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL
BH4	0-0.1	Fill: clayey sand	11	LPQL	9	9	13	LPQL	5	27	0.05	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL
BH4	4.3-4.5	Silty clay	6	LPQL	14	15	15	0.3	5	25	0.06	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	na
BH5	0.1-0.2	Fill: sand	LPQL	LPQL	11	24	18	0.1	8	60	3.45	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL
BH6	0.1-0.2	Fill: clayey sand	11	1.5	9	12	14	LPQL	7	39	1.59	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL
BH7	0-0.3	Fill: silty clay	LPQL	LPQL	11	12	28	LPQL	7	32	1.47	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL
BH8	0.5-0.8	Fill: silty clay	LPQL	LPQL	10	6	12	LPQL	5	14	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL
BH8	3.3-3.6	Fill: silty clay	4	LPQL	11	14	37	LPQL	12	50	1.81	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL
BH8	3.6-3.7	Fill: fibre-cement	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	Chrysotile and Amosite asbestos
BH8	5.2-5.4	Fill: fibrous debris	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	Chrysotile, Amosite and Crocidolite asbestos
BH8	5.9-6	Fill: fibrous debris	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	Chrysotile, Amosite and Crocidolite asbestos
BH9	0.6-0.9	Fill: silty clay	LPQL	LPQL	11	21	28	LPQL	11	45	2.68	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL
BH9	2.95-3	Fill: fibrous debris	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	Chrysotile, Amosite and Crocidolite asbestos
BH10	0.5-0.8	Fill: silty clay	LPQL	LPQL	9	7	12	LPQL	4	20	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL
BH10	4.4-4.5	Fill: fibrous debris	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	Chrysotile, Amosite and Crocidolite asbestos
BH11	0-0.3	Fill: silty sand	LPQL	LPQL	5	6	27	LPQL	4	16	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL
BH11	1.3-1.5	Fill: silty clay	LPQL	LPQL	9	8	16	LPQL	4	18	0.71	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL
Total Number of Samples			15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	19
Maximum Value			11	1.5	15	47	38	0.3	67	110	14.8	2	0	0	0	0	0	0	0	0	0	nc

Explanation:

1 - Site Assessment Criteria (SAC): NEPM 2013, HIL-D: 'Commercial/Industrial'

2 - 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 C
SOIL LABORATORY RESULTS COMPARED TO HSL
All data in mg/kg unless stated otherwise

				C_6-C10 (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]				**COMMERCIAL/INDUSTRIAL**							
Sample Reference	**Sample Depth**	**Depth Category**	**Soil Category**								
BH1	0.4-0.5	0m to < 1m	Sand	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	0
BH2	0.1-0.2	0m to < 1m	Sand	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	0
BH2	2.8-3	2m to <4m	Clay	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	0
BH3	0.1-0.2	0m to < 1m	Sand	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	0
BH4	0-0.1	0m to < 1m	Sand	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	0
BH4	4.3-4.5	4m+	Clay	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	0
BH5	0.1-0.2	0m to < 1m	Sand	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	0
BH6	0.1-0.2	0m to < 1m	Sand	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	0
BH7	0-0.3	0m to < 1m	Clay	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	0
BH8	0.5-0.8	0m to < 1m	Clay	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	0
BH8	3.3-3.6	2m to <4m	Clay	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	0
BH9	0.6-0.9	0m to < 1m	Clay	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	0
BH10	0.5-0.8	0m to < 1m	Clay	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	0
BH11	0-0.3	0m to < 1m	Clay	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	0
BH11	1.3-1.5	1m to <2m	Clay	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	0
Total Number of Samples [3]				15	15	15	15	15	15	15	15
Maximum Value				LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	0

Explanation:
1 - Site Assessment Criteria (SAC): NEPM 2013
2 - Field PID values obtained during the investigation

Concentration above the SAC VALUE

Abbreviations:
UCL: Upper Level Confidence Limit on Mean Value
HSLs: Health Screening Levels
na: Not Analysed
nc: Not Calculated
NL: Not Limiting
PQL: Practical Quantitation Limit
LPQL: Less than PQL
SAC: Site Assessment Criteria
NEPM: National Environmental Protection Measure

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20 January 2014

SITE ASSESSMENT CRITERIA

				C_6-C10 (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]				**COMMERCIAL/INDUSTRIAL**						
Sample Reference	**Sample Depth**	**Depth Category**	**Soil Category**							
BH1	0.4-0.5	0m to < 1m	Sand	260	NL	3	NL	NL	230	NL
BH2	0.1-0.2	0m to < 1m	Sand	260	NL	3	NL	NL	230	NL
BH2	2.8-3	2m to <4m	Clay	NL	NL	9	NL	NL	NL	NL
BH3	0.1-0.2	0m to < 1m	Sand	260	NL	3	NL	NL	230	NL
BH4	0-0.1	0m to < 1m	Sand	260	NL	3	NL	NL	230	NL
BH4	4.3-4.5	4m+	Clay	NL	NL	20	NL	NL	NL	NL
BH5	0.1-0.2	0m to < 1m	Sand	260	NL	3	NL	NL	230	NL
BH6	0.1-0.2	0m to < 1m	Sand	260	NL	3	NL	NL	230	NL
BH7	0-0.3	0m to < 1m	Clay	310	NL	4	NL	NL	NL	NL
BH8	0.5-0.8	0m to < 1m	Clay	310	NL	4	NL	NL	NL	NL
BH8	3.3-3.6	2m to <4m	Clay	NL	NL	9	NL	NL	NL	NL
BH9	0.6-0.9	0m to < 1m	Clay	310	NL	4	NL	NL	NL	NL
BH10	0.5-0.8	0m to < 1m	Clay	310	NL	4	NL	NL	NL	NL
BH11	0-0.3	0m to < 1m	Clay	310	NL	4	NL	NL	NL	NL
BH11	1.3-1.5	1m to <2m	Clay	480	NL	6	NL	NL	NL	NL

TABLE D
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 = BH7 (0-0.3m)	Arsenic	4	LPQL	LPQL	LPQL	NC
Dup Ref = Dup GF	Cadmium	0.5	LPQL	LPQL	LPQL	NC
	Chromium	1	11	10	10.5	9.5
Envirolab Report: 102018	Copper	1	12	18	15	40.0
	Lead	1	28	44	36	44.4
	Mercury	0.1	LPQL	LPQL	LPQL	NC
	Nickel	1	7	7	7	0.0
	Zinc	1	32	44	38	31.6

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

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
TPH: Total Petroleum Hydrocarbons

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TABLE E
SUMMARY OF QA/QC - TRIP BLANK RESULTS

ANALYSIS	Envirolab PQL		TB1[s] 5/12/2013 102018 mg/kg
	mg/kg	µg/L	
C_6-C_9 TPH	10	10	LPQL
C_{10}-C_{14} TPH	50	50	LPQL
C_{15}-C_{28} TPH	100	100	LPQL
C_{29}-C_{36} TPH	100	100	LPQL
Benzene	1	1	LPQL
Toluene	1	1	LPQL
Ethylbenzene	1	1	LPQL
m + p-xylene	2	2	LPQL
o-xylene	1	1	LPQL

EXPLANATION:
[s] Sample type (sand)

Values above PQLs/Acceptance criteria VALUE

ABBREVIATIONS:
PQL: Practical Quantitation Limit
LPQL: Less than PQL
TB: Trip Blank
TPH: Total Petroleum Hydrocarbons

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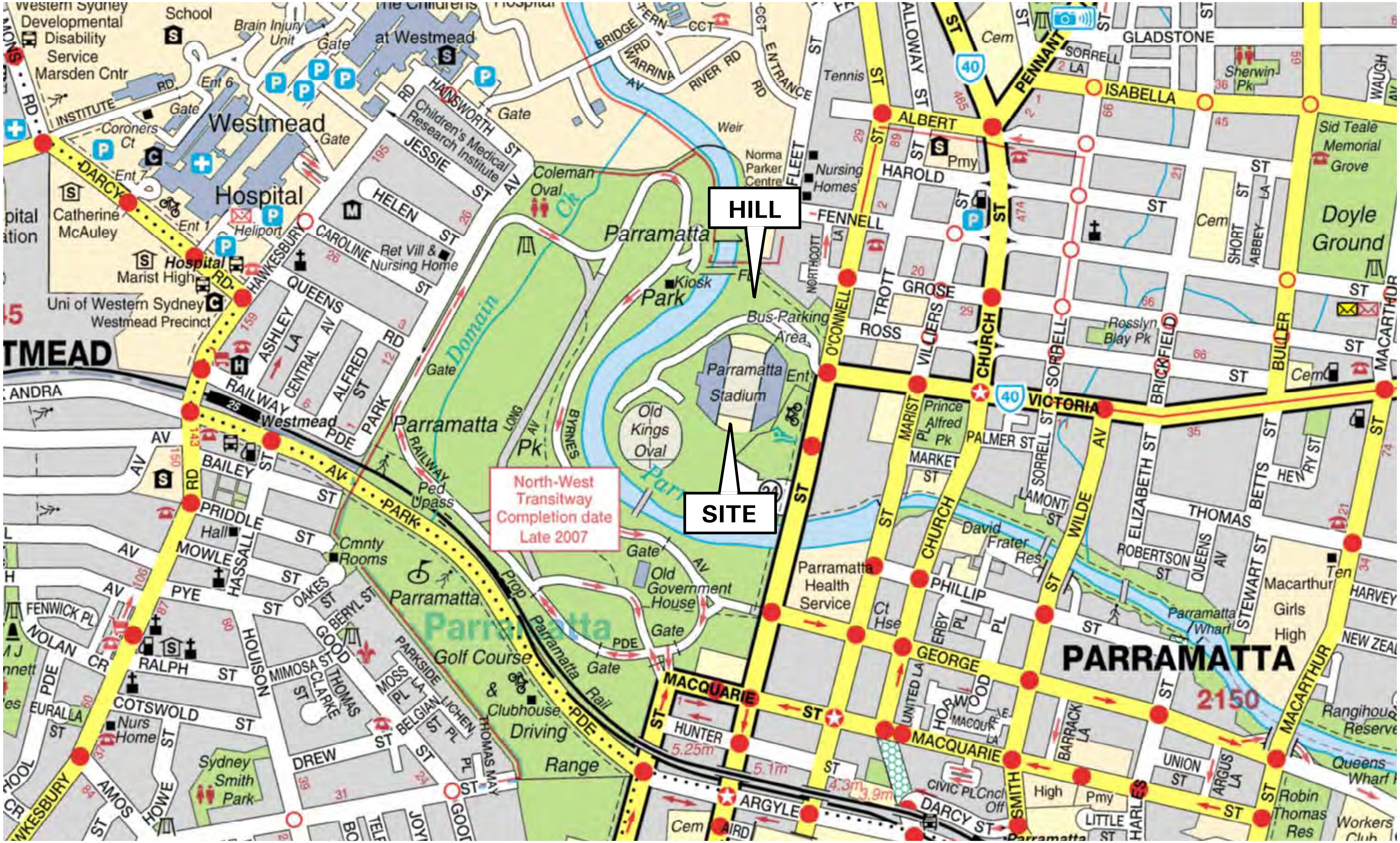
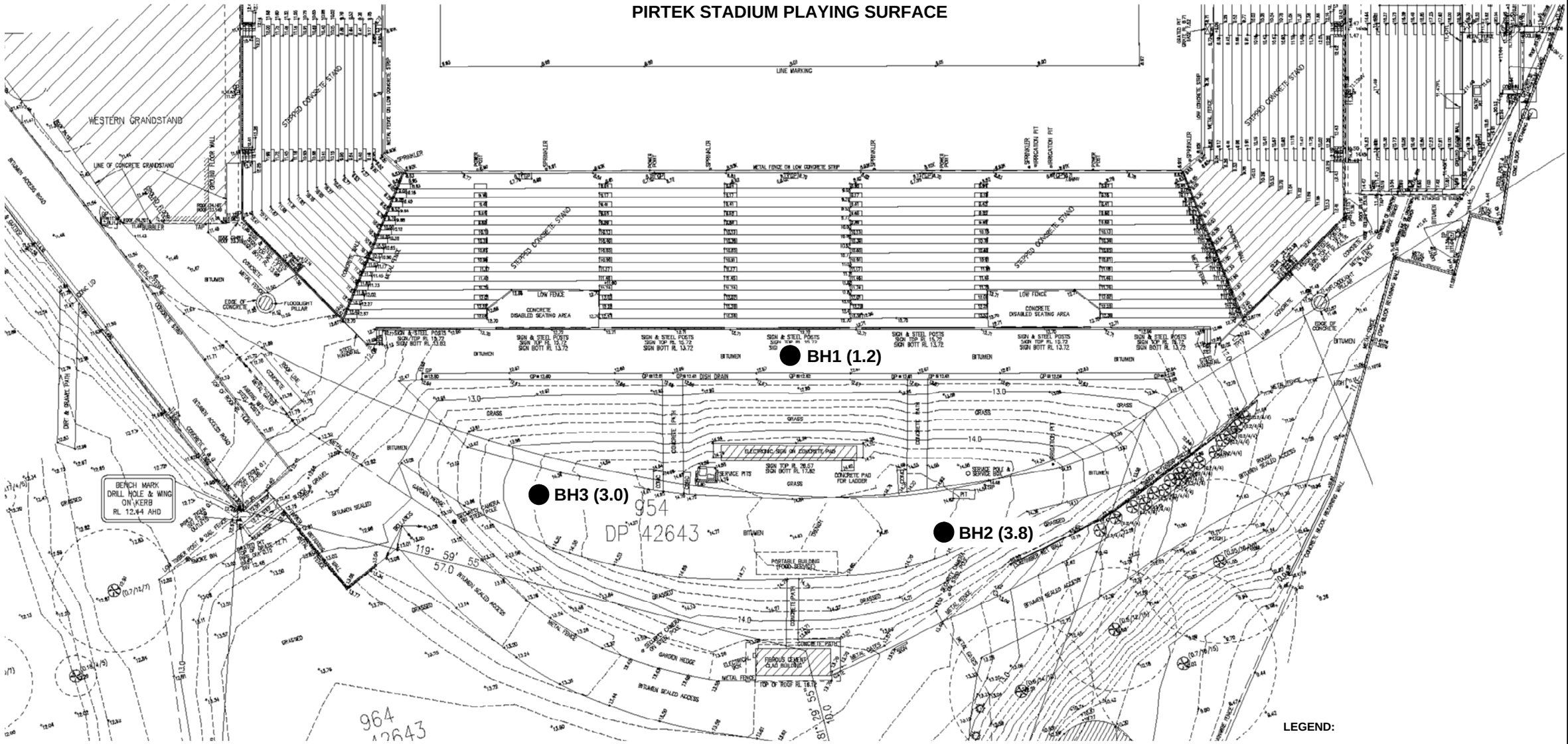


NOTES:
Figure 1 has been recreated from UBD on disc (version 5.0). Figure is not to scale.

UBD Map ref: 196 A-B16

Reference should be made to the report text for a full understanding of this plan.

EIS ENVIRONMENTAL INVESTIGATION SERVICES	Project Number: **E27070KH**	Title: **SITE LOCATION PLAN**
	Figure: **1**	Address: **PARRAMATTA STADIUM, O'CONNELL STREET, PARRAMATTA, NSW**



LEGEND:

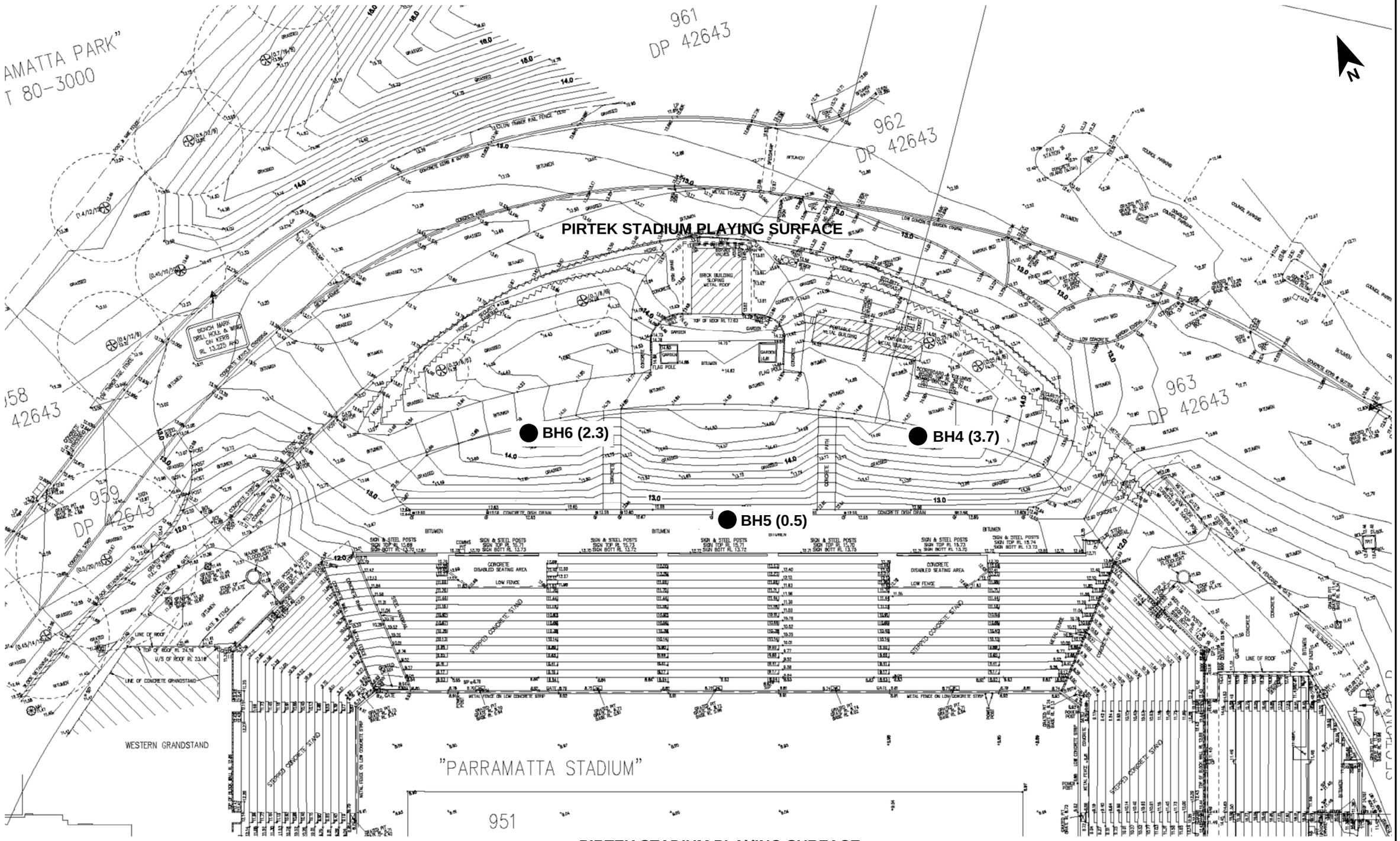
BH1 (0.2) **Borehole location, number and depth of fill (m)**

NOTES:
Figure 2 has been recreated from a site survey plan

The borehole locations presented on this plan have been established from site measurements only and should not be construed as survey points.

Reference should be made to the report text for a full understanding of this plan.

Approximate Scale (m): 0 — 20	**ENVIRONMENTAL INVESTIGATION SERVICES**	Project Number: **E27070KH**	Title: **SOUTH TERRACE AREA BOREHOLE LOCATION PLAN**
		Figure: **2**	Address: **PARRAMATTA STADIUM, O'CONNELL STREET, PARRAMATTA**



PIRTEK STADIUM PLAYING SURFACE

LEGEND:

BH1 (0.2) **Borehole location, number and depth of fill (m)**

NOTES:
Figure 2 has been recreated from a site survey plan

The borehole locations presented on this plan have been established from site measurements only and should not be construed as survey points.

Reference should be made to the report text for a full understanding of this plan.

Approximate Scale (m): 0 — 20	ENVIRONMENTAL INVESTIGATION SERVICES	Project Number: E27070KH	Title: NORTH TERRACE AREA BOREHOLE LOCATION PLAN
		Figure: 3	Address: PARRAMATTA STADIUM, O'CONNELL STREET, PARRAMATTA

LEGEND:

- Approximate site boundary
- BH1 (0.2) — Borehole location, number and depth of fill (m)
- 3.6-3.7 Abestos / 5.2-5.4 Asbestos / 5.9-6 Asbestos — Contamination data (depth and contaminant)

NOTES:
Figure 2 has been recreated from a Google Earth Pro image

The borehole locations presented on this plan have been established from site measurements only and should not be construed as survey points.

Reference should be made to the report text for a full understanding of this plan.

Approximate Scale (m): 0 6 12 18 24 30

ENVIRONMENTAL INVESTIGATION SERVICES

Project Number: E27070KH	Title: MAN-MADE HILL AREA BOREHOLE LOCATION PLAN
Figure: 4	Address: PARRAMATTA STADIUM, O'CONNELL STREET, PARRAMATTA

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BOREHOLE LOG

Borehole No. 1
1/3

Client: VENUES NSW
Project: PROPOSED PIRTEK STADIUM UPGRADE
Location: O'CONNELL STREET, PARRAMATTA, NSW

Job No. 27070SB
Date: 3-12-13
Method: SPIRAL AUGER JK350
Logged/Checked by: P.C./D.B.
R.L. Surface: ≈ 12.7m
Datum: AHD

Groundwater Record	SAMPLES ES	SAMPLES U50	SAMPLES DB	SAMPLES DS	Field Tests	Depth (m)	Graphic Log	Unified Classification	DESCRIPTION	Moisture Condition/ Weathering	Strength/ Rel. Density	Hand Penetrometer Readings (kPa.)	Remarks
						0		-	ASPHALTIC CONCRETE: 50mm.t FILL: Sand, fine to medium grained, brown, trace of fine to medium grained sub angular to angular igneous gravel and ceramic and concrete fragments.	M			APPEARS POORLY COMPACTED
				■	N = 3 1,2,1							150 350 200	
						1			FILL: Clayey sand, fine to medium grained, dark brown, trace if fine to medium grained sub angular to angular igneous gravel and concrete fragments.				
								CL	SILTY CLAY: low plasticity, brown mottled light brown, trace of ash.	MC>PL	VSt		
				■	N = 4 1,2,2							300 200 200	
						2							
						3					VSt-H	500 250 290	
				■	N = 16 6,8,8								
						4		SC/CL	SANDY CLAY/CLAYEY SAND: low plasticity, fine grained, brown mottled red brown and light brown.	MC>PL/ M	VSt/ MD		
				■	N = 21 6,10,11							320 350 290	
						5							
				■	N > 41 7,20, 21/100mm REFUSAL	6					H/ VD	500 550 450	
AFTER 29 HRS ▼								SC	CLAYEY SAND: fine to medium grained, mottled grey and brown, trace of fine to medium grained sub	M	D-VD		
						7							

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BOREHOLE LOG

Borehole No. 1
2/3

Client: VENUES NSW
Project: PROPOSED PIRTEK STADIUM UPGRADE
Location: O'CONNELL STREET, PARRAMATTA, NSW

Job No. 27070SB
Date: 3-12-13
Method: SPIRAL AUGER JK350
Logged/Checked by: P.C./D.B.
R.L. Surface: ≈ 12.7m
Datum: AHD

Groundwater Record	SAMPLES ES	SAMPLES U50	SAMPLES DB	SAMPLES DS	Field Tests	Depth (m)	Graphic Log	Unified Classification	DESCRIPTION	Moisture Condition/ Weathering	Strength/ Rel. Density	Hand Penetrometer Readings (kPa.)	Remarks
								SC	angular ironstone gravel.	M	D-VD		
					N = 13 5,7,6	8			CLAYEY SAND: fine to medium grained, mottled grey and brown, trace of fine to medium grained sub angular ironstone gravel.	W	MD	200 200 90	
					N = 36 12,19,17	9			CLAYYEY SAND: fine to medium grained, grey mottled brown and red brown.		D		COMMENCE RAPID AUGER DRILLING TECHNIQUE AT 9.45m
						10							
						11							
						12							
						13		-	SANDSTONE: fine to medium grained, brown.	XW-DW	EL-VL		VERY LOW TO LOW 'TC' BIT RESISTANCE
									SANDSTONE: fine to medium grained, brown and light grey.	DW-SW	M		MODERATE RESISTANCE
						14							

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BOREHOLE LOG

Borehole No. 1
3/3

Client: VENUES NSW
Project: PROPOSED PIRTEK STADIUM UPGRADE
Location: O'CONNELL STREET, PARRAMATTA, NSW

Job No. 27070SB
Date: 3-12-13
Method: SPIRAL AUGER JK350
Logged/Checked by: P.C./D.B.
R.L. Surface: ≈ 12.7m
Datum: AHD

Groundwater Record	SAMPLES ES	SAMPLES U50	SAMPLES DB	SAMPLES DS	Field Tests	Depth (m)	Graphic Log	Unified Classification	DESCRIPTION	Moisture Condition/ Weathering	Strength/ Rel. Density	Hand Penetrometer Readings (kPa.)	Remarks
				■					SANDSTONE: fine to medium grained, light grey.	SW-FR	M-H		MODERATE TO HIGH RESISTANCE
						15			END OF BOREHOLE AT 15.0m				
						16							
						17							
						18							
						19							
						20							

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BOREHOLE LOG

Borehole No. **2** 1/3

Client: VENUES NSW

Project: PROPOSED PIRTEK STADIUM UPGRADE

Location: O'CONNELL STREET, PARRAMATTA, NSW

Job No. 27070SB **Method:** SPIRAL AUGER JK350 **R.L. Surface:** ≈ 14.6m

Date: 3-12-13 **Datum:** AHD

Logged/Checked by: P.C./D.B.

Groundwater Record	SAMPLES ES	SAMPLES U50	SAMPLES DB	SAMPLES DS	Field Tests	Depth (m)	Graphic Log	Unified Classification	DESCRIPTION	Moisture Condition/ Weathering	Strength/ Rel. Density	Hand Penetrometer Readings (kPa.)	Remarks
						0		-	ASPHALTIC CONCRETE: 30mm.t	M			
									FILL: Sand, fine to medium grained, dark brown, trace of fine to medium grained sub angular igneous gravel.	MC<PL			
				■	N = 31 11,15,16				FILL: Silty clay, low plasticity, brown, red brown and grey brown, trace of fine to medium grained sub angular ironstone gravel.			>600 >600 >600	APPEARS WELL COMPACTED
				■	N = 12 5,5,7	2			FILL: Silty clay, low plasticity, brown and light brown, trace of fine grained rounded ironstone gravel and slag.			>600 >600 >600	APPEARS MODERATELY COMPACTED
				■	N = 15 7,7,8	3			FILL: Clayey sandy silt, light grey brown, fine grained sand.			150 300	
				■	N = 39 8,19,20	4		CL	SILTY CLAY: low plasticity, brown mottled grey, trace of root fibres.	MC<PL	VSt-H	450 350 600	
				■	N = 24 6,9,15	5			as above, but without root fibres.			400 450 350	
						6							
						7							

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BOREHOLE LOG

Borehole No. **2** 2/3

Client: VENUES NSW

Project: PROPOSED PIRTEK STADIUM UPGRADE

Location: O'CONNELL STREET, PARRAMATTA, NSW

Job No. 27070SB **Method:** SPIRAL AUGER JK350 **R.L. Surface:** ≈ 14.6m

Date: 3-12-13 **Datum:** AHD

Logged/Checked by: P.C./D.B.

Groundwater Record	SAMPLES ES	SAMPLES U50	SAMPLES DB	SAMPLES DS	Field Tests	Depth (m)	Graphic Log	Unified Classification	DESCRIPTION	Moisture Condition/ Weathering	Strength/ Rel. Density	Hand Penetrometer Readings (kPa.)	Remarks
								SC/CL	CLAYEY SAND/SANDY CLAY: low plasticity, fine to medium grained, grey mottled brown.	M/ MC>PL	MD/ VSt		
				■	N = 16 6,8,8	8						320 380 320	
▼ AFTER 2 HRS & 27 HRS				■	N > 28 17,25, 3/10mm REFUSAL	9		SC	CLAYEY SAND: fine to medium grained, grey.	W	D-VD	320 300	COMMENCED RAPID AUGER DRILLING TECHNIQUE AT 9.45m
▶						10							
						11							
						12							
						13							
						14							

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BOREHOLE LOG

Borehole No. **2** 3/3

Client: VENUES NSW

Project: PROPOSED PIRTEK STADIUM UPGRADE

Location: O'CONNELL STREET, PARRAMATTA, NSW

Job No. 27070SB **Method:** SPIRAL AUGER JK350 **R.L. Surface:** ≈ 14.6m

Date: 3-12-13 **Datum:** AHD

Logged/Checked by: P.C./D.B.

Groundwater Record	SAMPLES ES	SAMPLES U50	SAMPLES DB	SAMPLES DS	Field Tests	Depth (m)	Graphic Log	Unified Classification	DESCRIPTION	Moisture Condition/ Weathering	Strength/ Rel. Density	Hand Penetrometer Readings (kPa.)	Remarks
								SC	CLAYEY SAND: fine to medium grained, grey.	W	D-VD		
								-	SANDSTONE: fine to medium grained, brown,	DW	VL-L		VERY LOW TO LOW 'TC' BIT RESISTANCE
						15			SANDSTONE: fine to medium grained, brown and light grey.	DW-SW	M		MODERATE RESISTAMCE
				■		16			INTERBEDDED SANDSTONE: fine to medium grained, light grey and SILTSTONE: dark grey.	SW-FR	M-H		MODERATE TO HIGH RESISTANCE
									END OF BOREHOLE AT 16.5m				
						17							
						18							
						19							
						20							

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GEOTECHNICAL AND ENVIRONMENTAL ENGINEERS

BOREHOLE LOG

Borehole No. 3
1/2

Client: VENUES NSW
Project: PROPOSED PIRTEK STADIUM UPGRADE
Location: O'CONNELL STREET, PARRAMATTA, NSW

Job No. 27070SB
Date: 3-12-13
Method: SPIRAL AUGER JK350
Logged/Checked by: P.C./D.B.
R.L. Surface: ≈ 14.2m
Datum: AHD

Groundwater Record	SAMPLES ES	SAMPLES U50	SAMPLES DB	SAMPLES DS	Field Tests	Depth (m)	Graphic Log	Unified Classification	DESCRIPTION	Moisture Condition/ Weathering	Strength/ Rel. Density	Hand Penetrometer Readings (kPa.)	Remarks
						0		-	ASPHALTIC CONCRETE: 30mm.t	M			
									FILL: Silty sand, fine to medium grained, dark brown grey, trace of fine to medium grained sub angular to angular igneous gravel and slag.	MC>PL			
					N = 18 4,8,10							340 320 370	APPEARS WELL COMPACTED
						1			FILL: Silty clay, medium to high plasticity, red brown and brown, trace of fine to medium grained sand, fine to medium grained sub angular ironstone gravel and ash.				
					N = 9 6,5,4							150 200 140	APPEARS MODERATELY COMPACTED
						2							
									FILL: Silty clay, medium to high plasticity, dark grey, trace of ash.				
					N = 10 3,4,6	3		CL	SILTY CLAY: low plasticity, brown mottled grey brown.	MC>PL	St-VSt	150 150 320	
						4							
					N = 14 4,6,8					MC≈PL	VSt	320 250 350	
						5							
									SILTY CLAY: low to medium plasticity, grey brown mottled red brown, trace of fine grained sand.				
					N = 24 5,12,12	6				MC<PL	H	440 440 450	
						7							

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GEOTECHNICAL AND ENVIRONMENTAL ENGINEERS

BOREHOLE LOG

Borehole No. 3
2/2

Client: VENUES NSW
Project: PROPOSED PIRTEK STADIUM UPGRADE
Location: O'CONNELL STREET, PARRAMATTA, NSW

Job No. 27070SB
Date: 3-12-13
Method: SPIRAL AUGER JK350
Logged/Checked by: P.C./D.B.
R.L. Surface: ≈ 14.2m
Datum: AHD

Groundwater Record	SAMPLES ES	SAMPLES U50	SAMPLES DB	SAMPLES DS	Field Tests	Depth (m)	Graphic Log	Unified Classification	DESCRIPTION	Moisture Condition/ Weathering	Strength/ Rel. Density	Hand Penetrometer Readings (kPa.)	Remarks
								CL/SC	SANDY CLAY/CLAYEY SAND: low plasticity, fine to medium grained, brown mottled red brown, trace of fine to medium grained sub angular ironstone gravel.	MC>PL/ M	H/MD		
				■	N = 22 4,11,11						VSt-H/ MD	>600 200 300	
▼ AFTER 24 HRS						8							
				■	N = 14 10,6,8	9						200 400 350	
						10							COMMENCED RAPID AUGER DRILLING TECHNIQUE AT 9.45m
								-	SANDSTONE: fine to medium grained, light grey and dark grey.	DW-SW	M-H		MODERATE 'TC' BIT RESISTANCE
▼ AFTER 1 HR						11							
						12							
				■		13							VERY LOW RESISTANCE
													HIGH RESISTANCE
									END OF BOREHOLE AT 13.5m				
						14							

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GEOTECHNICAL AND ENVIRONMENTAL ENGINEERS

BOREHOLE LOG

Borehole No. 4
1/3

Client: VENUES NSW
Project: PROPOSED PIRTEK STADIUM UPGRADE
Location: O'CONNELL STREET, PARRAMATTA, NSW

Job No. 27070SB
Date: 4-12-13
Method: SPIRAL AUGER JK350
Logged/Checked by: P.C./D.B.
R.L. Surface: ≈ 14.5m
Datum: AHD

Groundwater Record	SAMPLES ES	SAMPLES U50	SAMPLES DB	SAMPLES DS	Field Tests	Depth (m)	Graphic Log	Unified Classification	DESCRIPTION	Moisture Condition/ Weathering	Strength/ Rel. Density	Hand Penetrometer Readings (kPa.)	Remarks
						0			FILL: Clayey sand, fine to medium grained, brown, trace of root fibres and concrete fragments.	D			GRASS COVER ROOT FIBRES TO 0.2m
										M			
									FILL: Clayey sand, fine to medium grained, brown, trace of ash.			200 280 300	APPEARS MODERATELY COMPACTED
					N = 10 4,4,6				FILL: Clayey sand, fine to medium grained, brown, trace of fine grained rounded ironstone gravel.				
						1							
									FILL: Sandy silty clay, low plasticity, brown mottled red brown, fine to medium grained sand.	MC>PL		180 180 280	
					N = 9 7,5,4								
						2							
									FILL: Clayey sand, fine to medium grained, brown and dark brown, trace of ash.	M			
					N = 7 2,3,4	3						200 250 200	
								CL	SILTY CLAY: low plasticity, brown mottled red brown and grey.	MC>PL	H		
						4							
					N = 29 7,16,13							420 420 420	
						5							
									as above, but with fine grained sand.	MC<PL			
					N = 30 7,14,16	6						430 440 440	
						7							

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GEOTECHNICAL AND ENVIRONMENTAL ENGINEERS

BOREHOLE LOG

Borehole No. 4
2/3

Client: VENUES NSW
Project: PROPOSED PIRTEK STADIUM UPGRADE
Location: O'CONNELL STREET, PARRAMATTA, NSW

Job No. 27070SB
Date: 4-12-13
Method: SPIRAL AUGER JK350
Logged/Checked by: P.C./D.B.
R.L. Surface: ≈ 14.5m
Datum: AHD

Groundwater Record	SAMPLES ES	SAMPLES U50	SAMPLES DB	SAMPLES DS	Field Tests	Depth (m)	Graphic Log	Unified Classification	DESCRIPTION	Moisture Condition/ Weathering	Strength/ Rel. Density	Hand Penetrometer Readings (kPa.)	Remarks
						8			SILTY CLAY: low plasticity, brown mottled red brown and grey, with fine grained sand, trace of fine to coarse grained sub angular to angular ironstone gravel.	MC<PL	H		
AFTER 3 HRS ▼				■	N = 23 5,11,14							>600 420 500	
▼ ON COMPLET-ION						9		CL/SC	SANDY CLAY/CLAYEY SAND: low to medium plasticity, fine to medium grained, brown mottled grey, trace of fine to medium grained sub angular to angular ironstone gravel.	MC>PL/ W	VSt/ MD		
				■	N = 15 7,5,10							200 200 250	COMMENCED RAPID AUGER DRILLING TECHNIQUE AT 9.45m
						10							
						11							
						12							
						13							
						14							

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GEOTECHNICAL AND ENVIRONMENTAL ENGINEERS

BOREHOLE LOG

Borehole No. 4 3/3

Client: VENUES NSW

Project: PROPOSED PIRTEK STADIUM UPGRADE

Location: O'CONNELL STREET, PARRAMATTA, NSW

Job No. 27070SB
Date: 4-12-13
Method: SPIRAL AUGER JK350
Logged/Checked by: P.C./D.B.
R.L. Surface: ≈ 14.5m
Datum: AHD

Groundwater Record	SAMPLES ES	SAMPLES U50	SAMPLES DB	SAMPLES DS	Field Tests	Depth (m)	Graphic Log	Unified Classification	DESCRIPTION	Moisture Condition/ Weathering	Strength/ Rel. Density	Hand Penetrometer Readings (kPa.)	Remarks
						15		CL/SC	SANDY CLAY/CLAYEY SAND: low to medium plasticity, fine to medium grained, brown mottled grey, trace of medium grained sub angular to angular ironstone gravel.	MC<PL/ W	H/MD		
				■		16		-	SANDSTONE: fine to medium grained, light grey.	DW	M		MODERATE 'TC' BIT RESISTANCE
						17				SW-FR	M-H		MODERATE TO HIGH RESISTANCE
						18			END OF BOREHOLE AT 18.0m				
						19							
						20							

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GEOTECHNICAL AND ENVIRONMENTAL ENGINEERS

BOREHOLE LOG

Borehole No. 5
1/2

Client: VENUES NSW
Project: PROPOSED PIRTEK STADIUM UPGRADE
Location: O'CONNELL STREET, PARRAMATTA, NSW

Job No. 27070SB
Date: 4-12-13
Method: SPIRAL AUGER JK350
Logged/Checked by: P.C./D.B.
R.L. Surface: ≈ 12.6m
Datum: AHD

Groundwater Record	SAMPLES ES	SAMPLES U50	SAMPLES DB	SAMPLES DS	Field Tests	Depth (m)	Graphic Log	Unified Classification	DESCRIPTION	Moisture Condition/ Weathering	Strength/ Rel. Density	Hand Penetrometer Readings (kPa.)	Remarks
						0		-	ASPHALTIC CONCRETE: 30mm.t	D			APPEARS MODERATELY COMPACTED
									FILL: Sand, fine to medium grained, dark brown, trace of concrete, ceramic and brick fragments and slag.	M			
				■	N = 15 4,7,8			CL	FILL: Clayey sand, fine to medium grained, grey brown, trace of concrete fragments.	MC>PL	VSt-H	390 300 400	
						1			SANDY CLAY: low plasticity, red brown mottled brown, fine to medium grained sand.	MC<PL	H		
				■	N = 20 5,9,11				SILTY CLAY: low to medium plasticity, red brown mottled brown, with fine grained sand.			440 480 500	
						2			SANDY CLAY: low plasticity, red brown mottled grey, fine grained sand.				
				■	N = 21 5,8,13	3						250 550 500	
						4		SC	CLAYEY SAND: fine to medium grained, red brown and light brown.	M	D-VD		
				■	N > 28 20,28/ 150mm								
					REFUSAL	5							
▼ AFTER 6 HRS													
						6					MD		
				■	N = 25 11,13,12								
						7							

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GEOTECHNICAL AND ENVIRONMENTAL ENGINEERS

BOREHOLE LOG

Borehole No. 5
2/2

Client: VENUES NSW
Project: PROPOSED PIRTEK STADIUM UPGRADE
Location: O'CONNELL STREET, PARRAMATTA, NSW

Job No. 27070SB
Date: 4-12-13
Method: SPIRAL AUGER JK350
Logged/Checked by: P.C./D.B.
R.L. Surface: ≈ 12.6m
Datum: AHD

Groundwater Record	SAMPLES ES	SAMPLES U50	SAMPLES DB	SAMPLES DS	Field Tests	Depth (m)	Graphic Log	Unified Classification	DESCRIPTION	Moisture Condition/ Weathering	Strength/ Rel. Density	Hand Penetrometer Readings (kPa.)	Remarks
▶					N = 36 10,10,25	8		SC	CLAYEY SAND: fine to medium grained, red brown and light brown and grey.	M	MD		
										W	D		
									as above, but iron indurated.				MODERATE 'TC BIT RESISTANCE ON INFERRED IRON INDURATED BAND
								CL	SILTY CLAY: medium plasticity, grey, with fine grained sand, trace of ironstone gravel bands.	MC≈PL	VSt		SOIL RESISTANCE
					N = 16 5,7,9	9						250 399 350	
						10							COMMENCED RAPID AUGER DRILLING TECHNIQUE A 9.45m OCCASIONAL VERY LOW TO LOW RESISTANCE BANDS
						11							
						12		-	SANDSTONE: fine to medium grained, light brown and light grey.	XW	EL		BANDED VERY LOW TO LOW RESISTANCE
						13			SANDSTONE: fine to medium grained, light grey.	DW	M		MODERATE RESISTANCE
						14			END OF BOREHOLE AT 13.5m				

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GEOTECHNICAL AND ENVIRONMENTAL ENGINEERS

BOREHOLE LOG

Borehole No. 6
1/2

Client: VENUES NSW
Project: PROPOSED PIRTEK STADIUM UPGRADE
Location: O'CONNELL STREET, PARRAMATTA, NSW

Job No. 27070SB
Date: 4-12-13
Method: SPIRAL AUGER JK350
Logged/Checked by: P.C./D.B.
R.L. Surface: ≈ 14.2m
Datum: AHD

Groundwater Record	SAMPLES ES	SAMPLES U50	SAMPLES DB	SAMPLES DS	Field Tests	Depth (m)	Graphic Log	Unified Classification	DESCRIPTION	Moisture Condition/ Weathering	Strength/ Rel. Density	Hand Penetrometer Readings (kPa.)	Remarks
						0			FILL: Clayey sand, fine to medium grained, dark brown, trace of root fibres and concrete fragments.	D			GRASS COVER
										M			
					N = 10 3,5,5				FILL: Clayey sand, fine to medium grained, brown and grey, trace of concrete fragments.			320 350 300	APPEARS MODERATELY COMPACTED
						1							
					N = 15 5,7,8				FILL: Sand, fine to medium grained, brown, trace of cemented sand nodules.				
						2							
								CL/SC	SANDY CLAY/CLAYEY SAND: low to medium plasticity, fine to medium grained, red brown mottled brown.	MC<PL/ M	VSt-H/ MD		
					N = 18 5,8,10	3						380 400 480	
						4			as above, but red brown mottled brown and grey.				
					N = 25 5,10,15						H/ MD	>600 >600 >600	
						5							
								SC	CLAYEY SAND: fine to medium grained, grey mottled brown.	M	MD		
					N = 16 5,6,10	6							
						7							

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GEOTECHNICAL AND ENVIRONMENTAL ENGINEERS

BOREHOLE LOG

Borehole No. 6 2/2

Client: VENUES NSW

Project: PROPOSED PIRTEK STADIUM UPGRADE

Location: O'CONNELL STREET, PARRAMATTA, NSW

Job No. 27070SB
Date: 4-12-13
Method: SPIRAL AUGER JK350
Logged/Checked by: P.C./D.B.
R.L. Surface: ≈ 14.2m
Datum: AHD

Groundwater Record	SAMPLES ES	SAMPLES U50	SAMPLES DB	SAMPLES DS	Field Tests	Depth (m)	Graphic Log	Unified Classification	DESCRIPTION	Moisture Condition/ Weathering	Strength/ Rel. Density	Hand Penetrometer Readings (kPa.)	Remarks
					N > 19 8,9,10/ 70mm	8		CL	SANDY CLAY: low to medium plasticity, red brown mottled yellow brown, with fine to medium grained sand and fine to medium grained angular ironstone gravel.	MC<PL	VSt-H	400 350	
▶					N = 13 3,5,8	9		SC	CLAYEY SAND: fine to medium grained, red brown and grey.	M	MD	250 350 300	COMMENCED RAPID AUGER DRILLING TECHNIQUE AT 9. 45m
						10							
						11		-	SANDSTONE: fine to medium grained, light brown and light grey.	DW	M-H		MODERATE TO HIGH 'TC' BIT RESISTANCE
						12			END OF BOREHOLE AT 12.0m				
						13							
						14							

ENVIRONMENTAL INVESTIGATION SERVICES

CONSULTING ENVIRONMENTAL ENGINEERS

Borehole No. 7

1/1

ENVIRONMENTAL LOG

Environmental logs are not to be used for geotechnical purposes

Client: VENUES NSW

Project: PROPOSED STADIUM UPGRADE

Location: PARRAMATTA STADIUM, O'CONNELL STREET, PARRAMATTA, NSW

Job No. E27070KH **Method:** EZIPROBE **R.L. Surface:** N/A

Date: 5-12-13 **Datum:**

Logged/Checked by: G.F./T.H.

Groundwater Record	SAMPLES ES	SAMPLES ASS	SAMPLES ASB	SAMPLES SAL	Field Tests	Depth (m)	Graphic Log	Unified Classification	DESCRIPTION	Moisture Condition/ Weathering	Strength/ Rel. Density	Hand Penetrometer Readings (kPa.)	Remarks
DRY ON COMPLETION	■		■			0			FILL: Silty clay, low to medium plasticity, brown and light brown, trace of fine to medium grained sand, fine to coarse gained sandstone, ironstone, igneous and shale gravel, tile, ash and slag fragments, root fibres and occasional cobble sized igneous.	MC<PL			GRASS COVER
	■		■			1							
	■		■			2							
	■							SM	SILTY SAND: fine to medium grained, light brown.	D			ALLUVIAL
						3			END OF BOREHOLE AT 3.0m				
						4							
						5							
						6							
						7							

ENVIRONMENTAL INVESTIGATION SERVICES

CONSULTING ENVIRONMENTAL ENGINEERS

ENVIRONMENTAL LOG

Borehole No. **8** **1/1**

Environmental logs are not to be used for geotechnical purposes

Client: VENUES NSW

Project: PROPOSED STADIUM UPGRADE

Location: PARRAMATTA STADIUM, O'CONNELL STREET, PARRAMATTA, NSW

Job No. E27070KH **Method:** EZIPROBE **R.L. Surface:** N/A

Date: 5-12-13 **Datum:**

Logged/Checked by: G.F./T.H.

Groundwater Record	SAMPLES ES	SAMPLES ASS	SAMPLES ASB	SAMPLES SAL	Field Tests	Depth (m)	Graphic Log	Unified Classification	DESCRIPTION	Moisture Condition/ Weathering	Strength/ Rel. Density	Hand Penetrometer Readings (kPa.)	Remarks
DRY ON COMPLETION	■		■			0			FILL: Silty clay, low to medium plasticity, brown and light brown, trace of fine to medium grained sand, ash slag and brick fragments, root fibers and fine to coarse grained sandstone, ironstone, igneous and shale gravel.	MC<PL			GRASS COVER
	■		■			1							
	■		■			2							
	■		■						as above, but with trace of glass.				
	■		■			3							
	■		■						as above, but including trace of fibre cement fragments.				
	■		■			4			FILL: Clayey sandy silt, low plasticity, brown and light brown, trace of root fibres, fine to medium grained igneous and ironstone gravel and fibre cement fragments.				
	■		■			5							
			■			6			END OF BOREHOLE AT 6.0m				BOREHOLE TERMINATED DUE TO SUSPECTED FRIABLE ASBESTOS
						7							

ENVIRONMENTAL INVESTIGATION SERVICES

CONSULTING ENVIRONMENTAL ENGINEERS

ENVIRONMENTAL LOG

Borehole No. **9** **1/1**

Environmental logs are not to be used for geotechnical purposes

Client: VENUES NSW

Project: PROPOSED STADIUM UPGRADE

Location: PARRAMATTA STADIUM, O'CONNELL STREET, PARRAMATTA, NSW

Job No. E27070KH **Method:** EZIPROBE **R.L. Surface:** N/A

Date: 5-12-13 **Datum:**

Logged/Checked by: G.F./T.H.

Groundwater Record	SAMPLES ES	SAMPLES ASS	SAMPLES ASB	SAMPLES SAL	Field Tests	Depth (m)	Graphic Log	Unified Classification	DESCRIPTION	Moisture Condition/ Weathering	Strength/ Rel. Density	Hand Penetrometer Readings (kPa.)	Remarks
DRY ON COMPLETION	■		■			0			FILL: Silty clay, low to medium plasticity, brown and light brown, trace of root fibres, sand and slag, fine to medium grained igneous, ironstone and shale gravel and fine to medium grained sand.	MC>PL			GRASS COVER
	■		■			1			FILL: Silty clay, medium to high plasticity, red brown, orange brown and brown, trace of fine to medium grained ironstone and sandstone gravel.				
	■		■			2							
	■		■			3			END OF BOREHOLE AT 3.0m				BOREHOLE TERMINATED DUE TO SUSPECTED FRIABLE ASBESTOS
						4							
						5							
						6							
						7							

ENVIRONMENTAL INVESTIGATION SERVICES

CONSULTING ENVIRONMENTAL ENGINEERS

ENVIRONMENTAL LOG

Borehole No. **10** **1/1**

Environmental logs are not to be used for geotechnical purposes

Client: VENUES NSW

Project: PROPOSED STADIUM UPGRADE

Location: PARRAMATTA STADIUM, O'CONNELL STREET, PARRAMATTA, NSW

Job No. E27070KH **Method:** EZIPROBE **R.L. Surface:** N/A

Date: 5-12-13 **Datum:**

Logged/Checked by: G.F./T.H.

Groundwater Record	SAMPLES ES	SAMPLES ASS	SAMPLES ASB	SAMPLES SAL	Field Tests	Depth (m)	Graphic Log	Unified Classification	DESCRIPTION	Moisture Condition/ Weathering	Strength/ Rel. Density	Hand Penetrometer Readings (kPa.)	Remarks
DRY ON COMPLETION	■		■			0			FILL: Silty sand, fine to medium grained, brown, trace of root fibres and fine to medium grained ironstone and igneous gravel.	D			GRASS COVER
	■		■						FILL: Silty clay, low to medium plasticity, brown and orange brown, with fine to medium grained sand, trace of ash, fine to medium grained quartz and ironstone gravel, and concrete fragments.	MC>PL			
	■		■			1							
	■		■										
	■		■			2							
	■		■										
	■		■			3							
			■										
						4							
									END OF BOREHOLE AT 4.5m				BOREHOLE TERMINATED DUE TO SUSPECTED FRIABLE ASBESTOS
						5							
						6							
						7							

ENVIRONMENTAL INVESTIGATION SERVICES

CONSULTING ENVIRONMENTAL ENGINEERS

ENVIRONMENTAL LOG

Borehole No. **11** **1/1**

Environmental logs are not to be used for geotechnical purposes

Client: VENUES NSW

Project: PROPOSED STADIUM UPGRADE

Location: PARRAMATTA STADIUM, O'CONNELL STREET, PARRAMATTA, NSW

Job No. E27070KH **Method:** EZIPROBE **R.L. Surface:** N/A

Date: 5-12-13 **Datum:**

Logged/Checked by: G.F./T.H.

Groundwater Record	SAMPLES ES	SAMPLES ASS	SAMPLES ASB	SAMPLES SAL	Field Tests	Depth (m)	Graphic Log	Unified Classification	DESCRIPTION	Moisture Condition/ Weathering	Strength/ Rel. Density	Hand Penetrometer Readings (kPa.)	Remarks
DRY ON COMPLETION	■		■			0			FILL: Silty sand, fine to medium grained, light brown, trace of slag, roots and fine grained ironstone gravel.	D			
									FILL: Silty clay, low to medium plasticity, with fine to medium grained silty sand, trace of ash, fine to medium grained ironstone and igneous gravel and bricks.	MC<PL			
	■		■			1							
	■		■			2							
	■		■			3							
	■		■			4							
									END OF BOREHOLE AT 4.5m				BOREHOLE TERMINATED DUE TO SUSPECTED FRIABLE ASBESTOS
						5							
						6							
						7							