

Appendix E

Soil Vapour Bore Construction Logs





	: Renewal SA			Completion Date: 14/11/	2017	BCL N			
			CAP Investigations	Construction Details: Blank Casing: 0.0 - 1.9 m				: Gatic al: 1.9 - 2.0 m	
Projec	ct Number: 501	30.07		Bentonite Seal: 0.6 - 1.4 m				0.0 - 0.6 m	
Locat	ion: <i>Tonsley In</i>	novatio	on District	Gravel Pack: 1.4 - 2.2 m			s (m):		
	g Contractor: (SWL:		Encou	intered	WL:	
	g Method: JH/F			TOC (mAHD): 42.745		Logae	d By:	 МВ	
			staining observed in surficial horizon	Easting: 6123272.838 Z	one 54			78123.043 Zone	: 54
				, ,		<u> </u>			
Depth (m)	Interpreted Formation	Graphic Log	SOIL DESCRIPTION		Contact Depth (m)	Sample ID Analysed (*)	PID (ppm)	Well Log \	Well Construction
	- Fill Material		Bitumen Fill: silty CLAY, brown, firm, dry, low plastic ironstone and calcareous), black staining	ity, trace gravels (grey,	0.03			•	-Grout Backfill
1.0 -	-		Silty CLAY: brown, firm, dry, medium plasticalcareous gravels (1 - 2 mm diameter)	city, trace grey and	0.50 SS	SE_SV01A_0.6-0.`	7 0.8		-Bentonite Seal
	Natural Material		Silty CLAY: brown, firm, dry, medium plastic 5 mm diameter) Silty CLAY: brown, firm, dry, medium plastic gravels (0.5 - 2 mm diameter)		- 1.40 - 1.70	SE_SV01A_1.5-1.i	5 1.8	→	-1.8 mm Grade Sand
2.0 -	-		Bore hole terminated at 2.2 m		2.20 -				-Stainless Steel -1.8 mm Grader Sand





	: Renewal SA			Completion Date: 14/1	1/2017	BCL N			
			CAP Investigations	Construction Details: Blank Casing: 0.0 - 3.9 m			Feature:_ d Interval:	3.9 - 4.0 m	
	ct Number: 501			Bentonite Seal: 2.6 - 3.4 m		_	_	.0 - 2.6 m	
	ion: <i>Tonsley In</i>			Gravel Pack: 3.4 - 4.2 m		_	(m): 50		
	g Contractor: (SWL:			ntered V		
	g Method: JH/F			TOC (mAHD): 42.722	7		d By: M		
Comm	nents: <i>No odou</i>	r or sta	ins noted	Easting: 6123272.606	Zone 54	Northir	ng: 2/8	123.881 Z	one 54
Depth (m)	Interpreted Formation	Graphic Log	SOIL DESCRIF	PTION		Sample ID nalysed (米)	PID (ppm)	Well Log	Well Constructio
	- Fill Material		Bitumen Fill: silty CLAY, brown, firm, dry, low pla ironstone and calcareous), black staining		0.03				
- 1.0 -	_		Silty CLAY: brown, firm, dry, medium p calcareous gravels (1 - 2 mm diameter)	lasticity, trace grey and)		SV01B_0.6-0.7	0.8		
- 2.0 -	-		Silty CLAY: brown, firm, dry, medium p 5 mm diameter) Silty CLAY: brown, firm, dry, medium p gravels (0.5 - 2 mm diameter)		BSE_	SV01B_1.5-1.6	1.8		
3.0 -	Natural Material		Clayey SAND: orange/brown, loose, dr grey gravels (up to 1 mm diameter)	y, fine to medium sands, trace	2.90	SV01B_2.6-2.7	2.2		⋖ —Bentonite Sea
	-		Silty CLAY: orange/brown, firm, dry, lov ironstone gravels (up to 1 mm diameter	w plasticity, trace grey and r)	3.20				
4.0 -	-		Clayey SAND: grey/brown with orange loose, dry, trace grey gravels (up to 2 n	mottling, fine to medium sands, nm diameter)		_SV01B_4-4.1	2.7		1.8 mm Grade SandStainless Stee1.8 mm Grade Sand
	-		Bore hole terminated at 4.2 m		4.20				





	Renewal SA	ov 1/00	AP Investigations	Completion Date: 14/11/ Construction Details:	/2017	BCL N			
		•	CAP Investigations	Blank Casing: 0.0 - 7.4 m			Feature:_ ed Interval	Gatic : 7.4 - 7.5 m	
	t Number: 501			Bentonite Seal: 5.8 - 6.9 m				0.0 - 5.8 m	
	on: Tonsley In			Gravel Pack: 6.9 - 7.6 m			(m): 50		
	Contractor: (SWL:			ntered \		
	Method: JH/F		ing noted	TOC (mAHD): 42.702 Easting: 6123272.381 Z	70ne 51		d By: N	MB 8124.759 Z	one 51
Commi	ents. <i>1</i> 00 0000	or star	ins noted	Lasting. 0723272.3012	0/16/04	INOLUIII	ig. 270	7124.139 20	JIIC 04
Depth (m)	Interpreted Formation	Graphic Log	SOIL DESCRIPTION			Sample ID nalysed (米)	PID (ppm)	Well Log	Well Constructio
-	Fill Material		Bitumen Fill: silty CLAY, brown, firm, dry, low plastic ironstone and calcareous), black staining		0.03				
1.0 — -			Silty CLAY: brown, firm, dry, medium plastical careous gravels (1 - 2 mm diameter) Silty CLAY: brown, firm, dry, medium plastifum diameter)		— 1.40 BSE_	SV01C_0.6-0.7			
2.0 -			Silty CLAY: brown, firm, dry, medium plasti gravels (0.5 - 2 mm diameter)	city, trace grey and ironstone	— 1.70	SV01C_2.6-2.7	2.2		
3.0 -			Clayey SAND: orange/brown, loose, dry, fir grey gravels (up to 1 mm diameter) Silty CLAY: orange/brown, firm, dry, low plaironstone gravels (up to 1 mm diameter)		2.90 3.20				← Grout Backfill
-			Clayey SAND: grey/brown with orange mot	tling, fine to medium sands,	3.70				
4.0 -	Natural		loose, dry, trace grey gravels (up to 2 mm c Silty CLAY: orange/brown with grey mottlin	•	4.00 BSE	SV01C_4-4.1	2.7		
_	Material		medium plasticity, trace grey and ironstone			SV01C_4.1-4.2	0.9		
-			Silty CLAY: red/brown with grey mottling, fitrace grey and ironstone gravels (up to 1 m		4.40				
5.0 -			Clayey SAND: orange/brown, loose, dry, fir calcareous gravels (up to 1 mm diameter)	ne sands, trace grey and	5.20	SV01C_5.7-5.8	1		
6.0 -							'		■ Bentonite Sea
7.0 -			Clayey SAND: red/brown, loose, dry, fine scalcareous gravels (up to 1 mm diameter)		- 6.60 - 7.10				
-			Clayey GRAVEL: orange/red/brown, loose, to sub-rounded poorly sorted gravels (grey, (3 - 12 mm diameter)	slightly moist, sub-angular ironstone and calcareous)		SV01C_7.3-7.4	0.3		■ 1.8 mm Grade Sand Stainless Stee ■ 1.8 mm Grade 1.8 mm Grade ■ 1.8 m
			Bore hole terminated at 7.6 m						Sand





	Renewal SA		NAD las continuations	Completion Date: 14/11/ Construction Details:	2017	<u> </u>	10.: <i>N/</i>		
			CAP Investigations	Blank Casing: 0.0 - 1.95 m				: Gatic al: 1.95 - 2.0	5 m
	t Number: 501		Di ti t	Bentonite Seal: 0.9 - 1.4 m		Grout B	ackfill:_	0.0 - 0.9 m	
	on: Tonsley In			Gravel Pack: <u>1.4 - 2.25 m</u> SWL:			m):		
	g Contractor: (
	g Method: JH/I nents: No odou		ina natad	TOC (mAHD): 42.015 Easting: 6123250.971 Z	one 51	Logge		мв 78055.263 Z	7one 51
COMMI	1000000	Or Sta	ins noted		1	North	11g. 27	0000.200 2	-0/10 0 1
Depth (m)	Interpreted Formation	Graphic Log	SOIL DESCRIPTIO	N	Contact Depth (m)	Sample ID Analysed (米)	PID (ppm)	Well Log	Well Constructio
-	Fill Material		Bitumen Fill: gravelly SAND, brown/grey, dry, loose diameter) Fill: silty SAND, brown, dry, loose, fine to r calcareous gravels (3 - 14 mm diameter) Silty CLAY: red/brown/orange, dry, firm, m and ironstone gravels	nedium sands, trace grey and	0.03 0.20	ISE_SV02A_0.1-0.2	2 1.5		- Grout Backfill
- 1.0 -	Natural Material					BSE_SV02A_1-1.1	0.4		■—Bentonite Seal ■—1.8 mm Grade Sand
2.0 -			Bore hole terminated at 2.25 m		— 2.25 ·				Stainless Stee





Project Name: Tons	Nev VSCAD In	vestigations		Completion Date: 14/11/2 Construction Details:	2017		No.: N/A	Gatic	
		vesแyaแบบร	I .	Blank Casing: 0.0 - 3.9 m				: Gatic al: 3.9 - 4.0 r	n
Project Number: 50		at a k		Bentonite Seal: 2.6 - 3.4 m				0.0 - 2.6 m	
Location: Tonsley		rict		Gravel Pack: 3.4 - 4.2 m			s (m):		
Drilling Contractor:				SWL:			intered		
Drilling Method: JH		to all		TOC (mAHD): 42.033 Easting: 6123250.006 Zo	200 F1		d By:	MB 78054.967 2	7ono 51
Comments: No odo	ur or stains not	ea		Easing. 6723250.006 20	THE 54	Northi	ng: 27	0034.907 2	2011e 5 4
Depth (m) Interpreted Formation	Graphic Log	SOIL DES	SCRIPTION		Contact Depth (m)	Sample ID Analysed (米)	PID (ppm)	Well Log	Well Constructio
- Fill Material -	dian Fill: calc	gravelly SAND, brown/grey, dry neter) silty SAND, brown, dry, loose, fi areous gravels (3 - 14 mm diam	ine to med neter)	lium sands, trace grey and	- 0.20 - 0.70	SE_SV02B_0.1-0.:	2 1.5		
2.0 -		CLAY: red/brown/orange, dry, fironstone gravels	firm, medi	um plasticity, trace grey		3SE_SV02B_1-1.1	0.4		⋖ —Grout Backfill
Natural Material - 3.0 -	grey	v CLAY: red/brown/orange, dry, to and ironstone gravels (20 - 40 vey SAND: orange/brown with gravels (2 - 10 mm diame	mm diame	eter)	- 2.40 - 2.70				◀ —Bentonite Seal
4.0 -	Bore	e hole terminated at 4.2 m			- 4.20 -				■—1.8 mm Grade Sand Stainless Stee ■—1.8 mm Grade Sand



	: Renewal SA	lov 1/07	SAR Investigations	Completion Date: 14/11/2 Construction Details:	017		10.: N/		
		_	CAP Investigations	Blank Casing: 0.0 - 7.95 m				: Gatic al: 7.95 - 8.0)5 m
	t Number: 501			Bentonite Seal: <u>6.5 - 7.25 m</u>		Grout B	ackfill:_	0.0 - 6.5 m	<u> </u>
	ion: Tonsley In			Gravel Pack: 7.25 - 8.1 m			s (m):		
	g Contractor: (SWL:			intered		
	g Method: JH/I		ing make d	TOC (mAHD): 42.048	no E1		d By:		70no 51
Comn	nents: <i>No odou</i>	r or sta	IIIS NOTEA	Easting: 6123249.179 Zo	11E 34	INORNI	119: 27	78054.642	∠UHE 34
Depth (m)	Interpreted Formation	Graphic Log	SOIL DESCRIPTION		Contact Depth (m)	Sample ID Analysed (米)	PID (ppm)	Well Log	Well Construction
	Fill Material		Bitumen Fill: gravelly SAND, brown/grey, dry, loose, diameter) Fill: silty SAND, brown, dry, loose, fine to me calcareous gravels (3 - 14 mm diameter) Silty CLAY: red/brown/orange, dry, firm, mere	edium sands, trace grey and	0.03 0.20 - 0.70	SE_SV02C_0.1-0.2	2 1.5		
2.0 -	- - -		and ironstone gravels		E	SSE_SV02C_1-1.1	0.4		
3.0 -			Silty CLAY: red/brown/orange, dry, firm, megrey and ironstone gravels (20 - 40 mm diar Clayey SAND: orange/brown with grey mottlironstone gravels (2 - 10 mm diameter)	neter)	- 2.40 - 2.70				─ Grout Backfill
4.0 -	- Natural - Material		Silty CLAY: orange/brown with grey mottling trace grey gravels		- 4.20	SE_SV02C_4.5-4.	0.3		
5 0	-		Sandy CLAY: red/brown with grey mottling, trace grey gravels	dry, firm, low plasticity,	4.00				
5.0 -	-		Silty CLAY: orange/brown with grey mottling	, dry, firm, low plasticity	5.00				
6.0 -]				- 6.50	SE_SV02C_6.1-6.2	0.4		
7.0 -	- -		Gravelly SAND, loose, dry, fine-medium sar gravels (up to 20 mm diameter)	nds, grey and calcareous		3SE_SV02C_6.9-7	0.6		⋖ —Bentonite Sea
	- - -		Silty CLAY: orange/brown, stiff, dry, medium gravels	n plasticity, trace grey	7.50				1.8 mm Grade Sand
8.0 -	-		Bore hole terminated at 8.1 m		8.10	3SE_SV02C_7.9-8	0.8		Stainless Stee 1.8 mm Grade Sand
vn By: M	 - 1B : RL								





	: Renewal SA		200	Completion Date: 14/11/2	2017		No.: N//			
			CAP Investigations	Construction Details: Blank Casing: 0.0 - 1.9 m				: Gatic al: 1.9 - 2.0 n	<u> </u>	
	t Number: 501		5: / · ·	Bentonite Seal: <u>0.6 - 1.45 m</u>		Grout E	Backfill:_	0.0 - 0.6 m	·	
	ion: Tonsley In			Gravel Pack: <u>1.45 - 2.35 m</u> SWL:			s (m):; untered			
	g Contractor: (
	g Method: <i>JH/I</i> nents: <i>No odou</i>		ins noted	TOC (mAHD): 42.341 Easting: 6123071.251 Zo	ne 54		Logged By: <i>MB</i> Northing: 278049.435 Zone 54			
JUITIT	1101110. 140 0000	. Gr Star	no notou			1401111	g. <u>-</u> /	10.00.000		
Depth (m)	Interpreted Formation	Graphic Log	SOIL DESCRIPTION	ı	Contact Depth (m)	Sample ID Analysed (米)	PID (ppm)	Well Log	Well Constructio	
			Bitumen reinforced with concrete							
	Fill Material		Fill: gravelly SAND, loose, dry, grey and iro diameter)		- 0.60				≪ —Grout Backfill	
1.0 -	-		Silty CLAY: red/brown, firm, dry, medium p Silty SAND: brown, dry, loose, trace gravel:		0.90					
	- Natural - Material		Silty CLAY: brown/orange, firm, dry, high p	lasticity	- 1.40				■— Bentonite Sea	
- 2.0 -	-		Bore hole terminated at 2.35 m		- 2.35 -				-1.8 mm Grade Sand Stainless Stee -1.8 mm Grade Sand	
vn By: M cked By:	-		Dore Hole terriffiated at 2.35 fff							





Projec			AP Investigations C	ompletion Date: 15/11/20 onstruction Details: ank Casing: 0.0 - 3.9 m	017	Surface	No.: N/A Feature:		
	ct Number: 501		Be	entonite Seal: 2.6 - 3.4 m				0.0 - 2.6 m	
	ion: Tonsley In			avel Pack: 3.4 - 4.2 m		_,	s (m):		
	g Contractor: (WL:			ıntered		
	g Method: JH/I			OC (mAHD): 42.338			d By:		
Comn	nents: No odou	r or stai	ns noted E	asting: 6123071.24 Zone	e <i>54</i>	Northi	ng: 27	78050.72 Zo	ne 54
Depth (m)	Interpreted Formation	Graphic Log	SOIL DESCRIPTION		Contact Depth (m)	Sample ID Analysed (米)	PID (ppm)	Well Log	Well Construction
	- Fill Material		Bitumen reinforced with concrete Fill: gravelly SAND, loose, dry, grey and ironstordiameter)		0.08				
1.0 -	_		Silty CLAY: red/brown, firm, dry, medium plastic Silty SAND: brown, dry, loose, trace gravels	erty, trace grey graveis	0.90				
- 2.0 -	- Natural Material		Silty CLAY: brown/orange, firm, dry, high plastic	sity	1.40				← Grout Backfill The second of the s
· 3.0 -	- Waterial	77777	Silty SAND: orange/brown, dry, loose, trace gree	•	3.00				⋖ —Bentonite Sea
	-		Sandy CLAY: orange/brown with grey mottling, plasticity, trace grey and ironstone gravels						■ —1.8 mm Grad Sand
4.0 -	-		Silty CLAY: red/brown with grey mottling, firm, d trace grey and ironstone gravels Bore hole terminated at 4.2 m	ry, medium plasticity,	4.20				Stainless Stee -1.8 mm Grade Sand





	: Renewal SA	\ /0/	NAD in radioations	Completion Date: 15/11/2	2017	BCL N					
			CAP Investigations	Blank Casing: 0.0 - 7.6 m			Feature: ed Interva	Gatic I: 7.6 - 7.7	m		
	t Number: 501			Bentonite Seal: <u>6.2 - 7.0 m</u>				0.0 - 6.2 m			
	on: Tonsley In			Gravel Pack: 7.0 - 7.8 m			s (m): <u> </u>				
	g Contractor: (SWL:							
	g Method: <i>JH/F</i> nents: <i>No odou</i>		ins noted	TOC (mAHD): 42.343 Easting: 6123071.477 Z	one 54		Logged By: MB Northing: 278051.697 Zone 54				
COITIII	10113. 740 0000	Or Star	ns noted	Lacting. 6720077.777 2		HORUM	11g				
Depth (m)	Interpreted Formation	Graphic Log	SOIL DESCRIPTION	ON	Contact Depth (m)	Sample ID Analysed (米)	PID (ppm)	Well Log	Well Constructio		
-	Fill Material		Bitumen reinforced with concrete Fill: gravelly SAND, loose, dry, grey and i diameter)	ronstone gravels (up to 14 mm	0.08						
			Silty CLAY: red/brown, firm, dry, medium	plasticity, trace grey gravels	0.60						
1.0 -			Silty SAND: brown, dry, loose, trace grave	els	0.90						
			Silty CLAY: brown/orange, firm, dry, high	plasticity	1.40				×		
2.0 -	-		Silty SAND: orange/brown, dry, loose, tra	ce grev and ironstone gravels	2.50						
3.0 -			Sandy CLAY: orange/brown with grey mo		3.00				⋖ —Grout Backfill		
4.0 -	Natural Material		Silty CLAY: red/brown with grey mottling, trace grey and ironstone gravels	firm, dry, medium plasticity,	- 4.00	E_SV03C_4.3-4.	4 0.4				
5.0 -											
6.0 -	-		Silty SAND: orange/brown, loose, dry, tra calcareous gravels	ce grey, ironstone and		E_SV03C_5.8-5.	9 0.3				
-	_		Silty CLAY: red/brown with grey mottling, trace grey and ironstone gravels		6.10						
7.0 -	-		Silty CLAY: grey/orange/white, firm, dry, I material, trace fine to medium sands, trace	ow plasticity, calcareous se grey and calcareous gravels					■—Bentonite Sea ■—1.8 mm Grade		
-			Silty CLAY: brown with grey mottling, firm	n, dry, medium plasticity	7.50				Sand Stainless Stee		
8.0 -			Bore hole terminated at 7.8 m		7.80				1.8 mm Grade Sand		
n By: M											





	: Renewal SA			Completion Date: 15/11/	2017		lo.: <i>N/A</i>				
			CAP Investigations	Construction Details: Blank Casing: 0.0 - 1.9 m				: Gatic al: 1.9 - 2.0 m	1		
Projec	ct Number: 501	30.07		Bentonite Seal: 0.6 - 1.4 m				0.0 - 0.6 m	•		
Locati	ion: <i>Tonsley In</i>	novatio	n District	Gravel Pack: <u>1.4 - 2.2 m</u>		Annulus	s (m):	50 mm			
Drillin	g Contractor: (Geodrill		SWL:		Encou	intered	WL:			
Drilling	g Method: HA/	PT		TOC (mAHD): 43.269		Logge	d By:	МВ			
Comn	nents: No odou	r or stai	ins noted	Easting: 6122872.723 Z	one 54	Northi	Northing: 278058.898 Zone 54				
Depth (m)	Interpreted Formation	Graphic Log	SOIL DESCRIPTION	ı	Contact Depth (m)	Sample ID Analysed (米)	PID (ppm)	Well Log	Well Construction		
	Fill Material		Fill: gravelly SAND, dark brown, loose, moi gravels (1 - 20 mm diameter)		0.30 BSE	_SV04A_0.15-0.2	- 35 0.6		⋖ —Grout Backfill		
	-		Silty CLAY: red/brown, firm, slightly moist,	high plasticity, trace gravels							
1.0 -	- - Natural Material		Silty CLAY: orange/brown with grey mottlin plasticity, trace black staining (streaks), sai		0.70				 ■ Bentonite Sea 		
2.0 -	-		Sandy CLAY: orange/brown, soft, dry, med ironstone and calcareous gravels	ium plasticity, trace grey,	1.40				■—1.8 mm Grade Sand Stainless Stee ■—1.8 mm Grade Sand		
	-		Bore hole terminated at 2.2 m		_ 2.20 _				Sand		





	: Renewal SA	ev VSC	AP Investigations	Completion Date: 15/11/. Construction Details:	2017	BCL N		A : Gatic			
		_		Blank Casing: <u>0.0 - 3.9 m</u>				al: 3.9 - 4.0 m			
	t Number: 501		- District	Bentonite Seal: <u>2.5 - 3.3 m</u>				0.0 - 2.5 m			
	ion: Tonsley In		n District	Gravel Pack: 3.3 - 4.1 m		Annulus					
	g Contractor: (SWL:		Encou					
	g Method: HA/I			TOC (mAHD): 43.276		Logge					
Comn	nents: No odou	r or stai	ns noted	Easting: 6122871.458 Z	one 54	Northi	Northing: 278058.996 Zone 54				
Depth (m)	Interpreted Formation	Graphic Log	SOIL DESCRIPTION	N	Contact Depth (m)	Sample ID Analysed (米)	PID (ppm)	Well Log	Well Construction		
	Fill Material		Fill: gravelly SAND, dark brown, loose, mo gravels (1 - 20 mm diameter) Silty CLAY: red/brown, firm, slightly moist,		— 0.30 ^B	SE_SV04B_0.15-0.2	5 0.6				
1.0 -	-		Silty CLAY: orange/brown with grey mottling plasticity, trace black staining (streaks), sa	ig, firm, dry, medium ndstone at 1.3 m	0.70						
	-		Sandy CLAY: orange/brown, soft, dry, high ironstone and calcareous gravels	plasticity, trace grey,	1.40				⋖ — Grout Backfill		
2.0 -	Natural Material					8SE_SV04B_2.2-2.3	0.3				
3.0 -	-		Silty CLAY: red/brown, firm, dry, medium p gravels		- 2.70 - 3.00				■— Bentonite Sea		
- 4.0 -	-		Silty CLAY: light brown with grey mottling, ironstone and calcareous gravels (1 - 2 mr	medium piasucity, trace grey,		8SE_SV04B_3.8-3.9	0.8		■—1.8 mm Grade Sand ——Stainless Stee		
	-	333333	Bore hole terminated at 4.1 m		4.10				—1.8 mm Grade Sand		





	Renewal SA t Name: Tonsi	ey VSC	CAP Investigations	Completion Date: 15/1: Construction Details:	1/201/	Surface	No.: N/A	Gatic	m
Projec	t Number: 501	30.07		Blank Casing: 0.0 - 6.4 m Bentonite Seal: 5.0 - 5.8 m				l: 6.4 - 6.5 0.0 - 5.0 m	
Locati	on: <i>Tonsley In</i>	novatio	n District	Gravel Pack: 5.8 - 6.6 m			s (m):5		
Drilling	g Contractor: (Geodrill		SWL:		Encou	ıntered	WL:	
Drilling	g Method: HA/	PT		TOC (mAHD): 43.298		Logge	ed By: /	МВ	
Comm	ents: No odou	r or stai	ins noted	Easting: 6122870.546	Zone 54	North	ing: 27	8059.041	Zone 54
Depth (m)	Interpreted Formation	Graphic Log	SOIL DESCRIP	TION	Contact Depth (m)	Sample ID Analysed (米)	PID (ppm)	Well Log	Well Construction
	Fill Material		Fill: gravelly SAND, dark brown, loose, r gravels (1 - 20 mm diameter)	moist, fine to medium sands,	o ao BSI	E_SV04C_0.15-0.	25 0.6		
-			Silty CLAY: red/brown, firm, slightly moi	st, high plasticity, trace gravels	0.30				
1.0 —			Silty CLAY: orange/brown with grey mot plasticity, trace black staining (streaks),	tling, firm, dry, medium sandstone at 1.3 m	0.70				
2.0 -			Sandy CLAY: orange/brown, soft, dry, h ironstone and calcareous gravels	igh plasticity, trace grey,	1.40				
0					- — 2.70	SE_SV04C_2.2-2.	3 0.3		 ■—Grout Backfill
3.0 -			Silty CLAY: red/brown, firm, dry, mediur gravels Silty CLAY: light brown with grey mottlin ironstone and calcareous gravels (1 - 2	ig, medium plasticity, trace grey,	2.00				
- - 4.0 - -	Natural Material		Silty CLAY: brown, soft, slightly moist, h Silty CLAY: brown with grey mottling, dr gravels	igh plasticity, trace grey gravels		SE_SV04C_3.8-3.	9 0.8		
5.0 -					В	SE_SV04C_5-5.1	0.3		⋖ —Bentonite Sea
6.0 -			Silty CLAY: grey with brown mottling, dr calcareous gravels (1 - 3 mm diameter)	y, firm, medium plasticity,	- - 5.70	SE_SV04C_6.2-6.	3 0.8		■ 1.8 mm Grade Sand
=			Bore hole terminated at 6.6 m		6.60				Stainless Stee 1.8 mm Grade Sand





Client: Renewal SA			Construction Date: 15/1:		BCL No.: N/A						
Project Name: Tonsley VSCAP Investigations Project Number: 50130.07				Blank Casing: 0.0 - 1.9 m	Construction Details: Blank Casing: 0.0 - 1.9 m			Surface Feature: Gatic Screened Interval: 1.9 - 2.0 m			
					Bentonite Seal: 0.6 - 1.4 m			Grout Backfill: 0.0 - 0.6 m			
	ion: Tonsley In			Gravel Pack: 1.4 - 2.2 m			s (m): . untered				
	g Contractor: (
	g Method: HA/		ing materal	TOC (mAHD): 45.066 Easting: 6122875.055	7one 54		ed By:	МВ 78131.215 Z	7one 51		
Comi	Herits. No odou	or star	iris riolea	Lasting. 0722073.000	20116 34	NOLLI	27	0131.2132	-0/1 C 34		
Depth (m)	Interpreted Formation	Graphic Log	SOIL DESCRIPTION	DN	Contact Depth (m)	Sample ID Analysed (米)	PID (ppm)	Well Log	Well Construction		
- 1.0 -	Fill Material		Fill: sandy GRAVEL, loose, moist, gravels Fill: silty SAND, loose, moist, trace grey a		0.10				■— Grout Backfill		
	- - Natural		Silty CLAY: brown, firm, dry, medium plas gravels	sticity, trace grey and ironstone	0.40						
			Silty CLAY: orange/brown, firm, dry, high	prasuraty, trace gravets	1.30	ISE_SV05A_1-1.1	0.3		■ Bentonite Sea		
	Material		Sandstone Silty SAND, orange/brown, soft, dry, fine-mm diameter)	medium sands, gravels (1 - 23	1.40				■ —1.8 mm Grade Sand		
2.0 -	_		Bore hole terminated at 2.2 m		2.20	SSE_SV05A_2-2.1	0.3		——Stainless Stee —1.8 mm Grade Sand		
	-										





Client: Renewal SA Project Name: Tonsley VSCAP Investigations				Completion Date: 15/ Construction Details:	Completion Date: 15/11/2017 Construction Details:			BCL No.: N/A Surface Feature: Gatic			
Project Number: 50130.07				Blank Casing: 0.0 - 3.9 m		Screen	ed Interva	al: 3.9 - 4.0 n	1		
Location: Tonsley Innovation District				Bentonite Seal: <u>2.6 - 3.4 m</u> Gravel Pack: 3.4 - 4.2 m	1		Grout Backfill: 0.0 - 2.6 m Annulus (m): 50 mm				
	g Contractor: (SWL:			untered				
	g Method: HA/				TOC (mAHD): 45.059 Easting: 6122874.155 Zone 54		ed By:				
	nents: No odou		ins noted					78131.103 Z	one 54		
Depth (m)	Interpreted Formation	Graphic Log	SOIL DESCRIF	PTION	Contact Depth (m)	Sample ID Analysed (米)	PID (ppm)	Well Log	Well Construction		
			Fill: sandy GRAVEL, loose, moist, grav		0.10						
	Fill Material		Fill: silty SAND, loose, moist, trace grey	y and ironstone gravels	0.10						
	- I III Wateriai										
			Silty CLAY: brown, firm, dry, medium p	lasticity, trace grey and ironstor	0.40						
	1		gravels								
			Silty CLAY: orange/brown, firm, dry, hig	ah plasticity, trace gravels	0.70						
			Sity OLAT. Grangerbrown, IIIII, ury, III(gri piasuoity, liace glaveis							
1.0 -											
1.0					В	SE_SV05B_1-1.1	0.3				
			Sandstone		1.30				← Grout Backfill		
			Silty SAND, orange/brown, soft, dry, fin mm diameter)	ne-medium sands, gravels (1 - 2	3 1.40						
			min diameter)								
2.0 -											
					В	SE_SV05B_2-2.1	0.3				
	Natural										
	Material										
	-										
	-				2.80						
			Silty CLAY: orange/brown with grey mo plasticity, trace grey, ironstone and calo	ottling, firm, dry, medium	2.00						
3.0 -	-		productly, trace grey, ironstone and call	odi oodo gravolo					■—Bentonite Sea		
	+										
								(- t) (- t)			
	1										
									─ 1.8 mm Grad		
	1								──1.8 mm Grad Sand		
					В	SE_SV05B_3.9-4	0.5				
4.0 -	1								Stainless Stee		
			Pore hale terminated at 4.2 m		4.20				Sand		
	1		Bore hole terminated at 4.2 m								
	1	ı I			1 1		1	1			





Client: Renewal SA				Completion Date: 15/11		BCL No.: N/A			
Project Name: Tonsley VSCAP Investigations				Construction Details:				Gatic	
Project Number: 50130.07					Blank Casing: 0.0 - 6.6 m			l: 6.6 - 6.7 m	1
				Bentonite Seal: <u>5.2 - 6.0 m</u> Gravel Pack: 6.0 - 6.8 m			ackfill: s (m):5	0.0 - 5.2 m	
Location: Tonsley Innovation District Drilling Contractor: Geodrill				SWL:			intered		
	g Method: HA/I							WE. MB	
	nents: <i>No odou</i>		ins noted		TOC (mAHD): 45.055 Easting: 6122873.147 Zone 54			ив '8131.043 Z	one 54
JUITIT	ICITIO. INO OUOU	Ur Stal	ino noteu		31,0 04	INOITII	. iy. 27		.5/10 07
Depth (m)	Interpreted Formation	Graphic Log	SOIL DESCRIPTIO	N	Contact Depth (m)	Sample ID Analysed (米)	PID (ppm)	Well Log	Well Constructio
	Fill Material		Fill: sandy GRAVEL, loose, moist, gravels Fill: silty SAND, loose, moist, trace grey ar		0.10				
-			Silty CLAY: brown, firm, dry, medium plas gravels	ticity, trace grey and ironstone	0.40				
1.0 -	-		Silty CLAY: orange/brown, firm, dry, high p	plasticity, trace gravels	0.70	CE CV05C 1 1 1 1	0.3		
	- Natural Material		Sandstone		1.30	BSE_SV05C_1-1.1	0.3		
2.0 -			Silty SAND, orange/brown, soft, dry, fine-r mm diameter)	nedium sands, gravels (1 - 23		SE_SV05C_2-2.1	0.3		
3.0 -			Silty CLAY: orange/brown with grey mo plasticity, trace grey, ironstone and calc		2.80				—Grout Backfill
4.0 -			sticity, trace grey gravels	4.00	SE_SV05C_3.9-4 SE_SV05C_4.2-4.:	0.5			
5.0 -			Silty CLAY: orange/brown with grey/white dry	mottling, firm, high plasticity,	· — 5.10	SE_SV05C_5.5-5.6	0.1		Posterile Co.
6.0 -			Silty CLAY: orange/brown with grey/white dry, calcareous gravels (1 - 3 mm diamete	mottling, firm, high plasticity,	6.20				■—Bentonite Sea ■—1.8 mm Grade Sand
	1					SE_SV05C_6.6-6.7	0.1		Stainless Stee
		XXXX	Bore hole terminated at 6.8 m		6.80			1	1.8 mm Grade Sand