	ition 1 R MO	ype NITOR	RING	Dimens Intern Diame	ions lal Diameter of Tube [A] = 50 eter of Filter Zone = 200 mm	mm			Client FINGAL C	OUNTY	COUNC	L				Job Numb
				Location 31793	n 33 E 256788.5 N	Ground 3	Level (n 4.91		Engineer RPS-MCC)S				·	,	Sheet
nd	Water	nstr (A)	Level (mOD)	Depth (m)	Description				Gi	roundwa	ater Strik	es Durin	g Drilling			
	\$.0				Concrete			Depth Struck	1 -		·		Read			De
×°			34.41	0.50		Date	Time	Struck (m)	Casing Depth (m)	Inflo	w Rate	5 min	10 min	15 min	20 min	De Se (
×					Cement/Bentonite Grout			6.20		Seepa	ge					
) 									Gro	oundwat	ter Obse	vations	During D	rillina		
2									Start of SI					ind of Sh		
			24.04	2.00		Date	Time	Depth Hole (m)		Water Depth (m)	Water Level (mOD)	Time		Casing Depth (m)	Water Depth (m)	W. Le (m
2\z []	Z ₁		31.91	3.00	Gravel Filter	10/05/05 11/05/05 12/05/05		2.30 9.40		DRY DRY	(mob)		2.30 9.40 9.60	(111)	DRY DRY	(111
	0,000,000,000,000,000,000,000,000,000,	200, 200, 200, 200, 200, 200, 200, 200,	31.41	3.50			√00g	solly.	theriv	<u>ي</u>			3.00			
); ; ; ; ;	6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2000 00 00 00 00 00 00 00 00 00 00 00 00				250,	in Pured			ment Gr	oundwa	ter Obse	rvations			
)	1000 000 000 000 000 000 000 000 000 00		***	į	4	003	A] Type	trument	[A]							
	2000 000 000 000 000 000 000 000 000 00	100 000 000 000 000 000 000 000 000 000	-		Consento	Date							Rema	rks		
<u> </u>	7 2				Slotted Standpipe		Time	Depth (m)	Level (mOD)		····	<u>.</u>				
	(\$\frac{1}{2}\) \$\frac{1}{2}\) \$\frac{1}{2}\) \$\frac{1}{2}\] \$\fra	కి రెక్కిస్తార్ల అన్ని లక్షిండ్ స్టాన్స్ అన్ని రెక్కి లోకి చేస్తారు. కోర్యాల్లో కోర్యాల్లో కోర్యాల్లో కోర్యాల్లో అన్ని కోర్యాల్లో కోర్యాల్లో కోర్మాల కేస్తున్నారి. కోర్యాల్లో కోర్యాల్లో కోర్యాల్లో కోర్యాల్లో కోర్యాల్లో కోర్యాల్లో కోర్యాల్లో కో														
	20 C 10 C 20 C 10 C 20 C 20 C 20 C 20 C	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	25.91	9.00	Gravel Filter											
4		6 6 6 6 6 6 6 7 7 8 8 8 8 8 8 8 8 8 8 8	25.31	9.60		!										

Glo	over Sit	e Ir	ıve	stigatio	ns	Ltd	Site FINGAL LANDFILL PROJECT	Borehole Number GS03
Boring Met		1	Diamete 00mm cas	sed to 10.40m	1	Level (mOD) 37.76	Client FINGAL COUNTY COUNCIL	Job Number 05-271
		Locatio		256817.8 N	Dates 09	/05/2005	Engineer RPS-MCOS	Sheet 1/2
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend Nater
					37.56	0.20	TOPSOIL MADE GROUND: Soft to firm brown gravelly sandy CLAY	
0.50	J1					-	containing occasional smooth sub-angular cobbles	
1.00-1.45 1.00	SPT N=9 B1			2,2/3,2,2,2				
1.50	J2					(2.40)		
2.00	B2							
2.50	J3				35.16	2.60	Firm light brown slightly gravelly sandy CLAY. Gravel is	
3.00 3.00-3.45	B3 U1 No Recovery						sub-angular to sub-rounded fine to medium	* · · · · · · · · · · · · · · · · · · ·
3.50	J4					(1.40)	other use.	· · · · · · · · · · · · · · · · · · ·
4.00-4.45 4.00	SPT N=10 B4			2,2/3,3,2,2	33.76	only	Stiff to very stiff black gravelly sandy CLAY containing occasional smooth sub-rounded cobbles and boulders.	×
4.50	J5			Seepage(1) at 4.30m.	ation	OH COL	Gravel is sub-angular fine to medium	V. O. V1
5.00 5.00-5,45	B5 U2			¢ô	inspection Might on			
5.50	J6			entore	8,	=		
6.00-6.45 6.00	SPT N=44 B6			Consent of C				
6.50	J7					-		
7.00 7.00-7.45	B7 U3					(6.00)		
7.50	J8					-		
8.00-8.45 8.00	SPT N=47 B8			6,10/11,12,12,12		-		
8.50	J9					- -		
9.00 9.00-9.45	B9 U4					<u>-</u>		
9.50	J10							
10.00-10.40	SPT 50/250			12,12/10,12,12,16	27.76	10.00		× 0 · · · · · · · · · · · · · · · · · ·
Remarks Permeability Chiselling fro	test carried out at 5.0 m 1.60m to 1.90m foi	0m and 1	0.00m.				Scale (approx)	Logged By
Ŭ -							1:50	TR
							Figure I 05-2	No. 71.GS03

Glo	over Sit	e Ir	ive	stigatio	ns	Ltd	Site FINGAL LANDFILL PROJECT	Nur	rehole mber
Boring Met Cable Percu			Diamete 0mm cas	red to 10.40m	Ground	1 Level (mOD) 37.76	Client FINGAL COUNTY COUNCIL		mber 5-271
		Locatio 31		56817.8 N	Dates 0	9/05/2005	Engineer RPS-MCOS	She	eet 2/2
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Lege	water Due
10.00	B10			09/05/2005	27.36	(0.40)	Stiff to very stiff black gravelly sandy CLAY containing occasional smooth sub-rounded cobbles and boulders. Gravel is sub-angular fine to medium	× 79.	
				Consent			Complete at 10.40m		
Remarks Borehole tern	ninated at scheduled	depth.	1		t		Scale (appro	Logg x) By	 jed
							1:50	TR	٤
							Figure 05	e No. -271.GS03	3

		C 11	- V C	stigatio	7113	Ltu	FINGAL LANDFILL PROJECT	GS04
Boring Met Cable Percu		1	Diamete Omm cas	r ed to 9.60m		Level (mOD) 45.92	Client FINGAL COUNTY COUNCIL	Job Number 05-271
		Locatio		256720 N	Dates 19	/05/2005	Engineer RPS-MCOS	Sheet 1/1
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend
					45.00	(0.30)	TOPSOIL	
0.50	J1				45.62	0.30	Firm orange brown slightly gravelly sandy CLAY. Gravel is sub-angular to sub-rounded fine to medium	x
1.00 1.00-1.45	B1 U1					(1.40)		×
1.50	J2				44.22	1.70		× · · · · · · ·
2.00-2.45 2.00	SPT N=19 B2			4,5/5,5,5,4			Stiff to very stiff black gravelly sandy CLAY containing occasional smooth sub-rounded cobbles and boulders. Gravel is sub-rounded fine to medium	
2.50	J3							
3.00 3.00-3.45	B3 U2							
3.50	J4					= = = =	J. other lise.	
4.00-4.45 4.00	SPT N=22 B4			5,5/6,6,5,5		only	Rany diter use.	
4.50	J5				citos	Pur requir		
5.00 5.00-5.45	B5 U3			ÇÓ	inspection bytight of	**************************************		
5.50	J6			7.7/8.8.8.7	N	- - - - - (7.90)		
6.00-6.45 6.00	SPT N=31 B6			7,7/8,8,8,7		(7.56) = = = = =		
5.50	J7					- - -		
7.00 7.00-7.45	B7 U4							
7.50	J8	!				-		
.00-8.45 .00	SPT N=34 B8			7,8/8,8,9,9		-		
.50	1 9							
.00 .00-9.45	B9 U5							
.50	J10			19/05/2005:DRY	36.32	9.60		
Remarks			-		33.02	-		
irtual refusal ermeability t tandpipe ins	I met at 9.60m on bottest carried out at 5.0 ttalled to 9.00m.	0m.					Scale (approx)	Logged By
niselling fror	m 9.50m to 9.60m for	1 hour.					1:50 Figure N	TR

	tion Ty R MON		RING	Dimens Intern Diame	ions al Diameter of Tube [A] = 50 eter of Filter Zone = 200 mm	mm	-		Client FINGAL C	OUNTY	COUNC	L				Job Num
				Location	n	Ground	Level (m		Engineer						-	05-: Shee
				31753	38.4 E 256720 N		5.92		RPS-MCC)S						,
end	Water (str A)	Level (mOD)	Depth (m)	Description				G	roundwa	ater Strik	es Durin	g Drilling	9		
			1		Concrete	Date	Time	Depth Struck	Casing Depth	Inflo	w Rate		Read			DS
÷ × .			45.42	0.50				(m)	(m)			5 min	10 min	15 min	20 min	+
- ° .																
÷×.					Cement/Bentonite Grout											
×								İ							ŀ	
								l	Gro	oundwat	ter Obsei	vations	During D	rilling		⊥
);;; ()			43.42	2.50					Start of SI	nift				Ind of Sh	nift	
					Gravel Filter	Date	Time	Depth Hole (m)		Water Depth (m)	Water Level (mOD)	Time	Depth Hole	Casing Depth (m)	Γ	V) (n
	00000000000000000000000000000000000000	2000 2000 2000 2000 2000 2000 2000	42.92	3.00		19/05/05	***************************************	(m)	(m)	(m)	(mQD)		(m) 9.60	(m)	(m) DRY	(n
) o .	20000000000000000000000000000000000000	2000 2000 2000 2000 2000 2000 2000 200	į						, 3	<u>ي</u> .						
<u>U</u>								14.	ity other us							
<u>O</u>							رج	sonly. Sured for a								i
<u>O.</u>	6000 6000 6000 6000 6000 6000 6000 600						in Pitro	Jule								
Ö:						SP. C	34		instru	ment Gr	oundwat	ter Obse	rvations		<u></u>	
0					•	or "Inst.	A] Type	:								
Ô	20000000000000000000000000000000000000				ente	Date	Inst	trument	[A]				Rema	ırke		
<u>.</u>					Slotted Standpipe of Standpipe	Date	Time	Depth (m)	Level (mOD)				Keine	iins		
<u>.</u>																
<u>;;</u> Di	00000000000000000000000000000000000000															
	00000000000000000000000000000000000000															
	00000000000000000000000000000000000000						İ									
<u>-</u> 2] 				İ												
): :::			20.00	0.00												
) :			36.92	9.00	Gravel Filter											
<u>5</u>		10000 10000	36.32	9.60												

Glo	over Sit	e Ir	ıve	stigatio	ns	Ltd	Site FINGAL LANDFILL PROJECT		Boreho Number GS05	r
Boring Met Cable Perci			Diamete	r ed to 10.50m	Ground	38.97	Client FINGAL COUNTY COUNCIL		Job Number 05-271	
		Location 31		256717.2 N	Dates	1/05/2005- 2/05/2005	Engineer RPS-MCOS		Sheet 1/2	
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness	Description		Legend	Water
					38.67	(0.30	Firm brown sandy CLAY containing occasion medium sub-angular to sub-rounded gravel	al fine to	× 2 · · · · · · · · · · · · · · · · · ·	
1.00-1.45 1.00	SPT N=13 B1			4,4/3,4,3,3	37.47	(1.20			× · · · · · · · · · · · · · · · · · · ·	
2.00 2.00-2.45	B2 U1				37.47		Stiff to very stiff black sandy gravelly CLAY of occasional smooth sub-rounded cobbles and Gravel is sub-rounded fine to medium	ontaining boulders.		
3.00-3.45 3.00	SPT N=28 B3			5,8/7,7,7,7			aller use.			
4.00 4.00-4.45	B4 U2					Treditied	the and other lise.			
5.00-5.45 5.00	SPT N=25 B5			7,7/6,7,5,7	inspection					
6.00 6.00-6.45	B6 U3			Consent of co		(8.50)				
7.00-7.45 7.00	SPT N=39 B7			9,9/10,9,10,10						
8.00 8.00-8.45	B8 U4									
9.00-9.45 9.00	SPT N=37 B9			10,10/10,9,9,9 11/05/2005:DRY						
				12/05/2005:DRY	28.97	10.00				
Remarks								Scale (approx)	Logged	1
								1:50	TR	
								Figure N 05-27	io. 71.GS05	

Glover Sit	te Inve	stigatio	ns	Ltd	Site FINGAL LANDFILL PROJECT	Nur	rehole mber S05
Boring Method Cable Percussion	Casing Diamet	er sed to 10.50m		Level (mOD) 38.97	Client FINGAL COUNTY COUNCIL		mber 5-271
	Location 317752.8 I	E 256717.2 N	Dates 11 12	/05/2005- /05/2005	Engineer RPS-MCOS	She	eet 2/2
Depth (m) Sample / Tests	Casing Water Depth (m) (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Lege	Water
Remarks		12/05/2005	ingestion of the state of the s	10.50	Stiff to very stiff black sandy gravelly CLAY containing occasional smooth sub-rounded cobbles and boulders. Gravel is sub-rounded fine to medium Complete at 10.50m		
Remarks irtual refusal met at 10.50m on hiselling from 10.30m to 10.50r	boulder. n for 1 hour.				Scal (appro		
					1:50	TF	`

Boring Met		1		stigatio			FINGAL LANDFILL PROJECT	GS0
Cable Percu		1	Diamete 0mm cas	r ed to 7.90m		Level (mOD 33.42	FINGAL COUNTY COUNCIL	Job Numbe 05-27
		Locatio 31		256724 N)/05/2005- /05/2005	Engineer RPS-MCOS	Sheet
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness	Description	Legend
0.50 1.00-1.45 1.00	J1 SPT N=11 B1 J2			2,3/3,3,3,2	33.22	0.20	TOPSOIL Firm light brown to greyish brown sandy gravelly CLAY containing occasional smooth sub-rounded cobbles. Gravel is sub-rounded fine to medium Firm to stiff dark grey sandy gravelly CLAY containing occasional smooth sub-rounded cobbles. Gravel is	x 0
2.00 2.00-2.45 2.50 3.00-3.45 3.00 3.50 4.00 4.00-4.45	B2 U1 J3 SPT N=39 B3 J4			12,11/10,10,9,10	30.12	(1.60)	Stiff to very stiff black gravelly sandy CLAY containing occasional smooth sub-rounded cobbles and boulders. Gravel is sub-rounded fine to medium.	
4.50 5.00-5.35 5.00 6.50 6.00-6.45	J5 SPT 50/200 B5 J6 B6 U3 No Recovery J7			11,13/15,18,17 Fo	inspection Sylight	(4.60)		
.00 .00-7.45	B7 U4 J8			10/05/2005:DRY 11/05/2005:6.30m 11/05/2005	25.52	7.90	Complete at 7.90m	
ermeability t tandpipe ins	I met at 7.90m on boo lest carried out at 5.0 stalled to 7.50m, m 7.80m to 7.90m for	0 m .	5.				Scale (approx) 1:50 Figure No	Logged By

	tion Type		TE	nvestigati	ons	Lto	d	FINGAL L	ANDFIL	L PROJE	СТ				GS06
	R MONITO			ions nal Diameter of Tube [A] = 50 eter of Filter Zone = 200 mm) mm I			Client FINGAL (COUNTY	COUNCI	L				Job Number 05-271
			Location		Ground	Level (m	iOD)	Engineer							Sheet
			31797	74.3 E 256724 N		33.42		RPS-MC0	OS						1/1
Legend	Mater (A)	Level (mOD)	Depth (m)	Description				G	roundw	ater Strik	es Durin	g Drillin	9		
							Depth	Casing				Read	lings		Depth
×. 0		· .		Concrete	Date	Time	Depth Struck (m)	Casing Depth (m)	Inflo	w Rate	5 min	10 min	15 min	20 min	Depth Sealed (m)
×		32.92	0.50												
×××××××××××××××××××××××××××××××××××××××															
× <u>0 </u>															!
× · · · · · · · · · · · · · · · · · · ·															
×						<u> </u>					w,, .				
×°				Cement/Bentonite Grout				Gr	oundwa	ter Obser	vations	During [rilling		
× × × × × × × × × × × × × × × × × × ×								Start of S	hift			E	End of SI	nift	****
× × 0					Date	Time	Depti Hole	Casing Depth (m)	Water Depth (m)	Water Level (mOD)	Time	Depth Hole	Casing Depth (m)	Water Depth (m)	Water
× × × × × × × × × × × × × × × × × × ×					10/05/05	5	(m)	(m)	(m)	(mOD)		7.00	(m)	(m) DRY	Level (mOD)
××····					11/05/05	5	7.00		6.30	27.12		7.90			
×		30.42	3.00					neti)					!	
× × × 0		00.72	3.00	Gravel Filter			24.	any other w							
<u>* </u>	650 (800) 600 (800) 800 (800) 800 (800) 800 (800)	9				ام	sody.					i			
		29.92	3.50			ONTO.	itel _		-						
		<u>ले हु</u>			فخى	on pure red	,	Instru	ıment G	roundwat	ter Obse	rvations			
		2000				0 24				-			· · · · · · · · · · · · · · · · · · ·		
		\$ 000 CC			100	[A] Type	<u>:</u>				-		·	- /	
		000		*	o co	Inst	trument	[A]							
		0000		Consent	Date		Denth	Laval				Rema	irks		
		200		C'		Time	Depth (m)	Level (mOD)							
		0													
5.00				Slotted Standpipe											
		25.92	7.50	Gravel Filter											
		25.52		Giavei Filler											

Geotextile sock fitted around filter. Upright cover fitted. End cap fitted at base of standpipe.

Glo	over Sit	e Ir	ıve	stigatio	ns	Ltd	Site FINGAL LANDFILL PROJECT	Borehole Number GS07
Boring Me Cable Perc		_	Diamete Omm cas	ed to 10.00m		Level (mOD) 30.89	Client FINGAL COUNTY COUNCIL	Job Number 05-271
		Locatio		256716.3 N	Dates 17	7/05/2005	Engineer RPS-MCOS	Sheet 1/1
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend Mater
					30.69	0.20	TOPSOIL	
0.50	J1				20.00	(0.60)	Firm light brown to orange brown sandy CLAY containing fine to medium sub-angular to sub-rounded gravel	× · · · · · · · · · · · · · · · · · · ·
1.00-1.45 1.00	CPT N=10 B1			2,3/3,2,3,2	30.09	0.80	Soft to firm light brown sandy CLAY containing occasional lenses of silty fine to coarse sand and fine to medium sub-rounded to sub-angular gravel	× · · · · · · · · · · · · · · · · · · ·
1.50	J2					(1.40)		X
2.00 2.00-2.45	B2 U1 No Recovery				28.69	2.20		x
2.50	J3	:					Firm to stiff black gravelly sandy CLAY containing occasional smooth sub-rounded cobbles and boulders. Gravel is sub-angular to sub-rounded fine to coarse	*x
3.00-3.45 3.00	CPT N=14 B3			3,3/4,3,3,4			Jec.	*x 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
3.50	J4					(3.20)	ind offer use.	× 0 × 0
4.00 4.00-4.45	B4 U2 No Recovery					- (3.20)		*X 0 0 x 0
4.50	J5				aspection			× 0 · · · · · · · · · · · · · · · · · ·
5.00-5.45 5.00	CPT N=20 B5			4,5/5,4,6,5 Ç	opyright			*x
5.50	J6			Moderate Flow(1) at 5.70m, rose to	25.49	5.40 - - - -	Dense grey sandy fine to coarse sub-rounded GRAVEL containing occasional smooth sub-rounded cobbles and boulders	
6.00 6.00-6.45 6.00	B6 CPT N=38 W1			at 5.70m, rose to 5.38m in 20 mins. 8,8/9,8,10,11				0 0 × 0
6.50	J7					<u>-</u>		· · · · · · · · · · · · · · · · · · ·
7.00-7.45 7.00	CPT N=36 B7			7,7/9,9,9,9				, x &
7.50	J8					(4.60)		, x o . o . o o . o . o . o . o . o .
8.00-8.45 8.00	CPT N=41 B8			8,8/10,11,10,10		(4.60)		, x o . v o
8.50	J9							· · · · · · · · · · · · · · · · · · ·
9.00-9.45 9.00	CPT N=36 B9			8,7/9,9,8,10				, , , , , , , , , , , , , , , , , , ,
9.50	J10							
10.00	B10			17/05/2005	20.89	10.00		0.0.0.
Remarks Virtual refusi Permeability Standpipe in	al met at 10.00m on b test carried out at 5.0 stalled to 10.00m.	oulder. 00m and 6	3.50m.				Scale (approx)	Logged By
Chiselling fro	stalled to 10.00m. om 9.80m to 10.00m f	or 2 hour	S.				1:50	TR
							Figure 05-2	No. 71.GS07

			r Si	te lı	nvestigati	ons	Lte	d	Site FINGAL L	.ANDFILI	_ PROJE	СТ				Borehole Number GS07
Installa WATE		Type ONITOR	RING	Dimens Intern Diame	ions al Diameter of Tube [A] = 50 eter of Filter Zone = 200 mm	mm			Client FINGAL C	COUNTY	COUNC	IL		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		Job Number 05-271
				Location 31815	n 56.4 E 256716.3 N	Ground	Level (m 30.89	nOD)	Engineer RPS-MC0	os			-			Sheet 1/1
Legend	Water	Instr (A)	Level (mOD)	Depth (m)	Description				G	roundwa	ater Strik	es Durin	g Drilling	g		
			30.39	0.50	Concrete	Date	Time	Depth Struck (m)	Casing Depth (m)	Inflo	w Rate	5 min	Read	lings 15 min	20 min	Depth Sealed (m)
X								5.70		Modera	ate Flow				5.38	
× • · · · × · × · × · × · × · × · × · · · × · · × · · · × ·							Γ		Gr	oundwat	er Obse	rvations	During C	Prilling		
× 0 · × 0					Cement/Bentonite Grout	Date	Time	Depth Hole (m)	Start of S Casing Depth (m)	Water Depth (m)	Water Level (mOD)	Time	Depth Hole (m)	Casing Depth (m)	Water Depth (m)	Water Level (mOD)
× 0 × 0				İ		17/05/05			any other w		(mob)		10.00		<u>(III)</u>	(INOD)
× · · · · · · · · · · · · · · · · · · ·							n Pito	sonly. tred for	Q							
× · · · · · · · · · · · · · · · · · · ·						zinspecil	A] Type	:	Instru	ıment Gı	oundwa	ter Obse	rvations			
× · · · · · · · · · · · · · · · · · · ·	▼ 1		25.39	5.50	Gravel Filter	003		trument	: [A]							
×.0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	50 50 50 50 50 50 50 50 50 50 50 50 50 5		24.89	6.00	Consent	Date	Time	Depth (m)	Level (mOD)				Rema	arks		
**	0	20,000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0														
	C 0 \$ 0 00 00 00 00 00 00 00 00 00 00 00	220 to 2.50 to turning to turning to turning to turning to the second to the second to turning to t			Slotted Standpipe											
	૧૦૦૦ ટે ૧૦૦૦ ટે ૧૦૦૦ ટે ૧૦૦૦ ટે ૧૦૦૦ ટે ૧૦૦૦ ટે ૧૦૦૦ ટે ૧૦૦૦ ટે ૧૦૦૦ ટે ૧૦૦૦ ટે ૧૦૦૦ ટે ૧૦૦૦ ટે ૧૦૦૦ ટે ૧૦૦૦ ટ ૧૦૦૦ ટે ૧૦૦૦ ટ	200 of the control of	20.89	10.00												
Unright	tile soo	fitted	d around fi			<u> </u>			1							

1.00 B1 1.50-1.95 U2 2.00 B2 2.50 J1 3.00 B3 3.00-3.45 U2	Sample / Tests	20 Locatio	n	256602 N Field Records	Dates 20	Depth (m) (Thickness)	Client FINGAL COUNTY COUNCIL Engineer RPS-MCOS Description TOPSOIL Firm dark brown sandy CLAY containing occasional smooth	Job Number 05-271 Sheet 1/2 Legend
1.00 B1 1.50-1.95 U2 2.00 B2 2.50 J1 3.00 B3 3.00-3.45 U2	.1	31	7598.6 E		Level (mOD)	Depth (m) (Thickness)	Description TOPSOIL Firm dark brown sandy CLAY containing occasional smooth	1/2
1.00 B1 1.50-1.95 U2 2.00 B2 2.50 J1 3.00 B3 3.00-3.45 U2	.1	Casing Depth (m)	Water Depth (m)	Field Records		(m) (Thickness)	TOPSOIL Firm dark brown sandy CLAY containing occasional smooth	Legend
1.50-1.95 U ² 2.00 B2 2.50 J1 3.00 B3 3.00-3.45 U ²	11				43.22	<u> </u>	Firm dark brown sandy CLAY containing occasional smooth	
1.50-1.95 U ² 2.00 B2 2.50 J1 3.00 3.00-3.45 U2	11				l	E	sub-angular cobbles and fine to medium sub-angular to sub-rounded gravel	* · · · · · · · · · · · · · · · · · · ·
2.00 B2 2.50 J1 3.00 3.00-3.45 U2					!			× 0 × 0
2.50 J1 3.00 3.00-3.45 U2	2		- 1		Í	(2.20)		× · · · · · · · · · · · · · · · · · · ·
3.00 3.00-3.45 B3						= = =		× · · · · · · · · · · · · · · · · · · ·
3.00-3.45 U2	1				41.02	2.40	Stiff black gravelly sandy CLAY containing occasional smooth sub-rounded cobbles and boulders. Gravel is sub-rounded fine to medium	
3.50 J2	3 2					=	re.	
	2					= = = = ,4	any other use.	
4.00 B4	4					et required for	, w	
4.50-4.95 SP	PT N=19			4,6/4,5,5,5	section	agi todi		***O ***O ***O
5.00 B5	5			Ç ^o	inspection Spyright of			
6.00-6.45 SP 6.00 B6	PT N=24			Consent of 3,7/9,4,5,6		(7.60)		
6.50 J3	,					-		
7.00 B7	,			20/05/2005:DRY				
7.50-7.95 SP	PT N=19			23/05/2005:DRY 5,5/4,6,5,4		-		
3.00 B8	3					-		
9.00-9.45 SP 9.00 B9	PT N=21			6,6/5,6,5,5		-		
9.50 J4						-		
Remarks	earried out = 15 00)m s== 11			33.42	10.00	Caala	Logged
hiselling from 3.70	70m to 4.00m for	on and 10 0.5 hours	z.uum. s. Chiselli	ng from 6.90m to 7.00	0m for 0.5	hours.	Scale (approx)	Logged By

GIC	ver Sit	e Ir	ive	stigatio	ns Ltd	FINGAL LANDFILL PROJECT	Number GS08
Boring Met Cable Percu		1	Diamete 0mm cas	ed to 20.00m	Ground Level (mOD) 43.42	Client FINGAL COUNTY COUNCIL	Job Number 05-271
		Location 31		256602 N	Dates 20/05/2005- 24/05/2005	Engineer RPS-MCOS	Sheet 2/2
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level Depth (m) (Thickness)	Description	Legend ke
10.00	B10					Stiff black gravelly sandy CLAY containing occasional smooth sub-rounded cobbles and boulders. Gravel is sub-rounded fine to medium	
11.00	B11	:					
12.00-12.45 12.00	SPT N=33 B12			8,7/9,5,9,10	- - - - - -		
12.50	J5						
13.00	B13					i, any other tise.	
14.00	B14				io est tentired s	rany or	
15.00	B15			çot di c	Harding (10.00)		
16.00	B16			23/05/2005:DRY			
16.00-16.45 16.50	SPT N=40 J6			24/05/2005:DRY 8,9/10,12,8,10			
17.00	B17						
18.00	B18						
19.00-19.45 19.00	SPT N=46 B19			10,8/12,10,10,14			
19.50	J7	į		24/05/2005	23.42 20.00		
Remarks Borehole term Chiselling from	ninated at scheduled	depth.	r. Chiselli	ng from 15.00m to 15		Scale (approx	Logged k) By
	75.55111 (5 1 1.55111	.0, 11100	Omobili	ng nom 10.00m to 15	out to thout.	1:50	TR
						Figure 05-	• No. •271.GS08

Glo	over Sit	e Ir	ıve	stigatio	ns	Ltd	Site FINGAL LANDFILL PROJECT		Borehole Number GS09
Boring Mer Cable Perc			Diamete	ed to 10.20m	1	Level (mOD) 33.74	Client FINGAL COUNTY COUNCIL		Job Number 05-271
		Locatio		56619.4 N	Dates	2/05/2005- 3/05/2005	Engineer RPS-MCOS		Sheet 1/2
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description		Legend Mater
0.90 0.90-1.35 1.70 1.80-2.25 1.70 2.50	B1 U1 B2 SPT N=17 J1			5,5/4,3,4,6	33.54	(1.50)	TOPSOIL Firm brown sandy slightly gravelly CLAY contains occasional smooth sub-rounded cobbles. Gravel sub-rounded fine to medium Stiff to very stiff black sandy gravelly CLAY contains occasional smooth sub-rounded cobbles and bou Gravel is sub-rounded to sub-angular fine to median	aining ulders.	
3.50 3.50 3.50-3.95 4.00 5.30-5.75 5.30 5.30 6.00	B4 J2 U2 B5 SPT N=17 J3 B6			12/05/2005:DRY 13/05/2005 2,2/3,4,4,6 Consent of C	ingedio	deliberation of the state of th	inder differ tiee.		
7.30 7.30	B8 J4								
8.40-8.85 8.40 8.40	SPT N=30 B9 J5			5,5/11,7,5,7		- - - - - - - - - -			
9.00	B10			13/05/2005 16/05/2005	23.74	10.00		 	
Standpipe in: Virtual refusa Permeability	stalled to 10.20m. al met at 10.20m on b test carried out at 5.0)Ωm						Scale (approx)	Logged By
oniseiling fro	т 9.10m to 9.50m fo	r 1 hour. (iniselling	from 9.50m to 9.80m	n for 0.5 ho	ours.		1:50 Figure N 05-27	TR lo. 1.GS09

Glo	ver Sit	e Ir	ive	stigatio	ns	Ltd	Site FINGAL LANDFILL PROJECT	Nu	rehole imber \$09
Boring Met Cable Percu			Diamete 0mm cas	r ed to 10.20m	Ground	33.74	Client FINGAL COUNTY COUNCIL		b mber 5-271
		Locatio		56619.4 N	Dates	2/05/2005- 3/05/2005	Engineer RPS-MCOS		eet 2/2
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Lege	Mater Done
10.00	B11			16/05/2005	23.54	10.20	Stiff to very stiff black sandy gravelly CLAY containing occasional smooth sub-rounded cobbles and boulders. Gravel is sub-rounded to sub-angular fine to medium Complete at 10.20m	× 60	<u>)</u>
Remarks Chiselling fro	m 10 30m to 10 50m	for 1 hou		Consent				Log	nged.
Chiselling fro	m 10.30m to 10.50m	for 1 hou	r.				Scale (approx		ged
							1:50 Figure 05-2	No. 271.GS0	

Installati WATER	ion Ty	/pe		Dimens					Client				-	· · · · · · · · · · · · · · · · · · ·	_	GS09
WATER	VIVION	IIION	.iivG	Diam	al Diameter of Tube [A] = 50 eter of Filter Zone = 200 mm	mm			FINGAL C	COUNTY	COUNC	L				Number 05-271
				Location 31784	n 48 E 256619.4 N	Ground	Level (m 33.74		Engineer RPS-MCC	os						Sheet 1/1
Legend	Mater ()	str A)	Level (mOD)	Depth (m)	Description		-		G	roundwa	ater Strik	es Durin	g Drillin	g	<u>.</u>	
× • • • • • • • • • • • • • • • • • • •					Concrete	Date	Time	Depth Struck	Casing Depth (m)	Inflo	w Rate			dings		Depth Sealed (m)
× × 0 × 0 × 0 × 0 × 0 × 0 × 0 × 0 × 0 ×			33.24	0.50	Cement/Bentonite Grout			(m)	(m)			5 min	10 min	15 min	20 min	(m)
									Gre	oundwat	ter Obse	rvations	During [Prilling		
			31.04	2.70					Start of S	hift			<u>-</u>	End of Si	nift	
	60000000000000000000000000000000000000		30.74	3.00	Gravel Filter	Date	Time	Depth Hole (m)	Casing Depth (m)	Water Depth (m)	Water Level (mOD)	Time	Depth Hole (m)	Casing Depth (m)	Water Depth (m)	Water Level (mOD)
	2, 0 - 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,	క్కోడ్ అన్న ణక్కిం ఆర్ట్ వైస్తాక్ అన్న ఇక్కిండ్స్ ఆర్వైస్తా అన్ని ఇక్కారి. ఇక్కి అన్ని కార్ట్ కోర్టుల్లోక్లు కాన్ వైస్తున్న టిర్మమైన్ ఆన్ స్టాన్స్ట్ క్రామ్మ్మ్మ్మ్మ్మ్మ్మ్మ్మ్మ్మ్మ్మ్మ్మ కోర్టుల్లో కార్క్ లోకి కార్ట్ క్రామ్మ్మ్మ్మ్మ్మ్మ్మ్మ్మ్మ్మ్మ్మ్మ్మ్మ్మ				12/05/05 13/05/05 16/05/05	, go ^g	4.50 10.00	any other w	Ø1*			4.50 10.00 10.20		DRY	
	00000000000000000000000000000000000000	5 02 03 04 05 05 05 05 05 05 05 05 05 05 05 05 05				insperior	on Printed Swiner red		Instru	ıment Gı	roundwa	ter Obse	rvations			
	00000000000000000000000000000000000000	100 000 000 000 000 000 000 000 000 000	:	į	Consent	Date	Ins	trument	[A]				Rema	arks		
		600 000 000 000 000 000 000 000 000 000		ļ	Slotted Standpipe	Date	Time	Depth (m)	Level (mOD)							·
			23.74	10.00												
			23.74 23.54	10.00 10.20	Gravel Filter											

Glo	over Sit	e Ir	ıve	stigatio	ns	Ltd	FINGAL LANDFILL PROJECT	Borehole Number GS10
Boring Met Cable Percu			Diamete 00mm cas	er sed to 7.80m	Ground	Level (mOD) 40.00	Client FINGAL COUNTY COUNCIL	Job Number 05-271
		Locatio		256508.5 N	Dates 18	3/05/2005- 9/05/2005	Engineer RPS-MCOS	Sheet 1/1
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend to
					39.80	0.20	TOPSOIL Firm dark brown to greyish brown sandy slightly gravelly CLAY containing occasional smooth sub-rounded cobbles. Gravel is sub-angular fine to medium	× ° · · × ° · · · × ° · · · · · · · · ·
1.00	B1					(2.10)		× 0 × × × × × × × × × × × × × × × × × ×
1.50-1.95	U1							*X 0 0 0 X 0 X 0 X 0 X 0 X 0 X 0 X 0 X 0
2.00	B2				37.70	2.30	Soft to firm greyish brown sandy CLAY containing occasional sub-rounded fine to medium gravel	x 0 · · · · · · · · · · · · · · · · · ·
3.00 3.00-3.45 3.50	B3 SPT N=6 J1			Slight Flow(1) at 2.90m, rose to 2.50m in 10 mins. 1,1/1,1,2,2		(1.70)	John Juse.	× · · · · · · · · · · · · · · · · · · ·
4.00	B4				36.00	- 05.00 (0.50)	Firm dark brown to greyish brown sandy slightly gravelly CLAY containing occasional smooth sub-rounded cobbles. Gravel is sub-angular fine to medium	× 0 0 × 0
4.50-4.87 5.00	SPT 54/220			7,9/14,18,22	35,500	4.50	Dense grey silty sandy fine to coarse GRAVEL containing occasional smooth sub-rounded cobbles and boulders	× 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
3.00	B 5			18/05/2005:DEY	opyti.			2 × × × × × × × × × × × × × × × × × × ×
6.00-6.45 6.00 6.00	SPT N=45 J2 B6			8,10/9,12,12,12		(3.30)		0 0 × 0 × 0 × 0 × 0 × 0 × 0 × 0 × 0 × 0
7.00	87							0.0%
			:	19/05/2005	32.20	7.80	Complete at 7.80m	
Remarks Permeability t /irtual refusa Chiselling from	test carried out at 7.8 I met at 7.80m on bo m 4.20m to 4.40m fo	30m. ulders.	s Chicall	ing from 4.90m to 5.4	Om for 0.5	hours Chis-	Scale (approx)	Logged By
rom 6.50m to	o 6.90m for 0.5 hours	. Chisellir	ig from 7.	60m to 7.80m for 1 h	our.	Hours, Unise	lling from 5.40m to 6.50m for 1 hour. Chiselling 1:50 Figure N	TR No. 71.GS10

Boring Met Cable Percu		I Casing							
	ussion	_	Diamete 0mm cas	r ed to 11.50m		L evel (mOD) 38.68	Client FINGAL COUNTY COUNCIL	N	lob lumber 05-271
		Locatio		256511.7 N	Dates 13/ 16/	05/2005- 05/2005	Engineer RPS-MCOS	s	Sheet 1/2
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Le	gend \$
					38.48	- - - 0.20	TOPSOIL		
0.50	J1						Firm brown sandy slightly gravelly CLAY containing occasional smooth sub-rounded cobbles. Gravel is sub-rounded fine to medium	* <u>°</u> * <u>°</u> * <u>°</u>	×° ×°
1.00 1.00-1.45	B1 U1					- (2.20)		× 2	× · · · · · · · · · · · · · · · · · · ·
1.50	J2					(2.20)		× <u>9</u>	× · · · ·
2.00-2.45 2.00	SPT N=21 B2			7,5/5,5,6,5				× <u>0</u>	×
2.50	J3				36.28	2.40	Stiff to very stiff black sandy gravelly CLAY containing occasional smooth sub-rounded cobbles and boulders. Gravel is sub-rounded fine to medium		
3.00 3.00-3.50	B3 U2					- - - - -		×.5. 	
3.50	J4					- -	· od other tie		
4.00-4.45 4 .00	SPT N=19 B4			5,5/5,4,5,5		- coses di	rany other use.		
4.50	J5				ection	del ledin			
5.00 5.00-5.45	B5 U3 No Recovery			ÇÓ	inspector opyright or				
5.50	J6			Consent of C	,	- - -			
3.00-6.45 3.00	SPT N=24 B6			7,7/6,6,7,5		- - - (7.60)			
3.50	J7					=		× *** × ***	
7.00 7.00-7.45	B7 U4	:				-			
7.50	J8					-		× • • • • • • • • • • • • • • • • • • •	
.00-8.45	SPT N=33 B8			7,8/7,9,9,8		- - -			; <u>*</u> O:
.50	J9					- - -			
.00	В9			13/05/2005:DRY					
.00-9.45 .50	SPT N=31 J10	:		16/05/2005:DRY 6,6/8,7,8,8		<u>-</u>		Č:	
					28.68	10.00		Ŏ.	
Remarks ermeability	test carried out at 5.0	0m and 1	0.00m.				Sca (appr	ale Lo	ogged y
							1:5	0	TR

Glo	ver Sit	e Ir	ıve	stigatio	ns	Ltd	Site FINGAL LANDFILL PROJECT	Boreho Numbe GS11
Boring Meth Cable Percu			Diamete	er sed to 11.50m		Level (mOD) 38.68	Client FINGAL COUNTY COUNCIL	Job Number 05-271
		Locatio		256511.7 N	Dates	3/05/2005- 5/05/2005	Engineer RPS-MCOS	Sheet 2/2
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend
10.00 10.00-10.45 10.50 11.00-11.38 11.00	B10 U5 J11 SPT 49/230 B11 J12			79,12/19,30 16/05/2005 Consent of Co		(1.50)	Stiff to very stiff black sandy gravelly CLAY containing occasional smooth sub-rounded cobbles and boulders. Gravel is sub-rounded fine to medium Complete at 11.50m	
/irtual refusal	alled to 11.00m. met at 11.50m on b n 11.40m to 11.50m	oulders. for 1 houi	r.				Scale (approx 1:50 Figure 05-	TR

G	lov	er	Si	te I	nvestigati	ons	Lt	d	Site FINGAL L	.ANDFILI	L PROJE	СТ		7		Borehole Number GS11
	ition Typ R MONI		1G	Dimens Interr Diam	ions lal Diameter of Tube [A] = 50 eter of Filter Zone = 200 mm	mm			Client FINGAL C	COUNTY	COUNC	IL				Job Number 05-271
				Locatio 31774	n 45.2 E 256511.7 N		Level (n 38.68	nOD)	Engineer RPS-MCC	os			-			Sheet 1/1
Legend	Mater (A	tr ()	Level (mOD)	Depth (m)	Description			L	G	roundwa	ater Strik	es Durin	g Drilling	9		
× 2	\$				Concrete	Date	Time	Depth Struck	Casing Depth (m)	Inflo	w Rate		Reac	lings		Depth
× × × × × × × × × × × × × × × × × × ×			38.18	0.50	ļ		11116	(m)	(m)		w Nate	5 min	10 min	15 min	20 min	Depth Sealed (m)
× 0 × 0 × 0 × 0 × 0 × 0 × 0 × 0 × 0 × 0					Cement/Bentonite Grout		į									
× 0 0										·····						
			36.18	2.50	Gravel Filter		T		Gr	oundwat	er Obse	rvations	During D	rilling		
		60000 200000 2000000 2000000	35.68	3.00		Date		Donth	Start of S		Mator			nd of S		T
	200 00 00 00 00 00 00 00 00 00 00 00 00					13/05/05	Time	Depth Hole (m)	Casing Depth (m)	Water Depth (m)	Water Level (mOD)	Time	Depth Hole (m) 9.00	Casing Depth (m)	Water Depth (m)	Water Level (mOD)
	Control of the Contro	\$\limins_{\text{or}} \limins_{\text{or}} \limi				16/05/05	god	Solve	any other w	DRY i			11.50		DK1	
	200 000 000 000 000 000 000 000 000 000					- ROO'S	on purper red	·		ıment Gr	oundwa	ter Obse	rvations			
	2000 000 000 000 000 000 000 000 000 00				4	COPYTIEST.	[A] Type	:								
	00000000000000000000000000000000000000				nt d	2 501	Ins	trument	[A]				_			
					Slotted Standpipe Consent C	Date	Time	Depth (m)	Level (mOD)			*	Rema	arks		
		1975 - 1974 - 1987 - 1987 - 1987 - 1987 - 1987 - 1987 - 1987 - 1987 - 1987 - 1987 - 1987 - 1987 - 1987 - 1987 1987 - 1987 - 1987 - 1987 - 1987 - 1987 - 1987 - 1987 - 1987 - 1987 - 1987 - 1987 - 1987 - 1987 - 1987 - 1987														
Remarks	200 C C C C C C C C C C C C C C C C C C		27.68	11.00	Gravel Filter											

Geotextile sock fitted around filter. Upright cover fitted. End cap fitted at base of standpipe.

Glo	over Sit	e Ir	ıve	stigatio	ns	Ltd	Site FINGAL LANDFILL PROJECT		Borehole Number GS12
Boring Met Cable Percu		1	Diamete	er sed to 6.80m	Ground	Level (mOD) 30.46	Client FINGAL COUNTY COUNCIL		Job Number 05-271
		Locatio		56416.1 N		6/05/2005- 7/05/2005	Engineer RPS-MCOS		Sheet 1/1
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description		Legend X
1.00 1.00 1.00-1.45 2.40-2.85 2.40 2.80 2.80 3.70 4.10-4.55 4.20 5.00 5.50-5.95 5.80 6.00-6.23	J1 B1 U1 SPT N=8 J2 J3 B2 B3 U2 B4 B5 J4 SPT N=23 B6 SPT 50/80	(m)	(m)	16/05/2005:DRY 17/05/2005:DRY 3,3/4,5,6,8 7,12/19,31	30.26 26.76 23.66	3.700 (3.50)	Firm brown sandy slightly gravelly CLAY contoccasional smooth sub-rounded cobbles. Grasub-angular to sub-rounded fine		
Permeability t	al met at 6.80m on bo test carried out at 5.0 ler from 5.00m. on 3.70m to 4.00m for o 6.80m for 1.5 hours)() m	s. Chisell	ing from 5.80m to 6.1	Om for 1 h	nour. Chisellin	g from 6.30m to 6.40m for 0.5 hours. Chiselling	Scale (approx) 1:50 Figure N	Logged By TR

Glo	ver Sit	e Ir	ive	stigatio	ns	Ltd	Site FINGAL LANDFILL PROJECT	Borehole Number GS13
Boring Met Cable Percu		1	Diamete 0mm cas	r ed to 13.00m	1	Level (mOD) 39.25	Client FINGAL COUNTY COUNCIL	Job Number 05-271
		Locatio 31		256417.1 N	Dates 17, 19,	/05/2005- /05/2005	Engineer RPS-MCOS	Sheet 1/2
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Fedeuq Vater
1.00	J1				39.05	0.20	TOPSOIL Firm brown sandy gravelly CLAY. Gravel is sub-rounded to sub-angular fine to medium	X 1 2 3 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1.00	B1							× · · · · · · · · · · · · · · · · · · ·
1.50 1.50-1.95	J2 U1					(2.70)		× , , , , , , , , , , , , , , , , , , ,
2.00 2.00 2.30-2.75	B2 J3 SPT N=16			2,2/4,6,2,4	;			× · · · · · · · · · · · · · · · · · · ·
2.60	J4				36.35			× × ×
3.00 3.00	B3 J5				1		Stiff to very stiff black gravelly sandy CLAY containing occasional smooth sub-rounded cobbles and boulders. Gravel is sub-rounded to sub-angular fine to coarse	
3.50	J6					<u>-</u> ,	. A offer to	
3.90-4.00	U2 Refusal			17/05/2005:DRY 18/05/2005:DRY	, tio	Purposes off	occasional smooth sub-rounded cobbles and boulders. Gravel is sub-rounded to sub-angular fine to coarse	
4.70 4.70 4.90-5.35	B4 J7 SPT N=39			4,5/7,9,11,12	inspect of	-		
5.50	J8			Consent of		-		
6.00 6.20-6.65 6.30 6.30 6.80-7.25	B5 SPT N=32 J9 B6 U3			3,4/4,8,9,11		(7.10)		
7.40 7.40	B7 J10							
8.40-8.85 8.40 8.40	SPT N=39 B8 J11			5,7/7,9,11,12				
9.40 9.40 9.50-9.95	B9 J12 U4				29.25	10.00		
Remarks Permeability Chiselling fro	test carried out at 5.0 om 4.00m to 4.10m fo	00m. or 0.5 hour	rs. Chisel	ling from 4.10m to 4.7	70m for 1.5	hours. Chise	Scale (approx	Logged By
Chiselling fro	om 7.80m to 8.00m fo	or 0.5 hou	rs.				1:50 Figure	TR No. 271.GS13

				stigatio			FINGAL LANDFILL PROJECT	GS1
Boring Meth Cable Percus			Diamete 0mm cas	r ed to 13.00m	ł	Level (mOD) 39.25	Client FINGAL COUNTY COUNCIL	Job Numbe 05-27
		Locatio 31		256417.1 N	Dates 17	7/05/2005- 0/05/2005	Engineer RPS-MCOS	Sheet 2/2
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend
1.00 1.20 1.50-11.95	J13 B10 J14 SPT N=35			18/05/2005:DRY 19/05/2005:DRY 5,5/8,8,10,9			Stiff to very stiff black gravelly sandy CLAY containing occasional smooth sub-rounded cobbles and boulders. Gravel is sub-rounded to sub-angular fine to coarse	
2.10 2.10	J15 B11					(3.00)		
2.60-12.90	SPT 50/150			7,12/21,28,1		علوابط		
Remarks				Consent of C	inspection in the control of the con	Little of the second of the se	Complete at 13.00m	
cemarks orehole term hiselling fron	inated due to obstru n 12.90m to 13.00m	action. for 1.5 ho	ours.				Scale (approx) Logged By
							1:50 Figure	TR No.

Glo	over Sit	e Ir	ive	stigatio	ns	Ltd	Site FINGAL LANDFILL PROJECT		Borehole Number GS14
Boring Met Cable Perc		_	Diamete	er sed to 9.50m	Ground	I Level (mOD) 29.55	Client FINGAL COUNTY COUNCIL		Job Number 05-271
		Locatio		256585 N	Dates	5/05/2005- 6/05/2005	Engineer RPS-MCOS		Sheet 1/1
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description		Legend to A
					29.45	0.10	TOPSOIL Soft black laminated sandy CLAY containing occasions smooth sub-rounded cobbles and fine to medium sub-rounded gravel	al	* · · · · · · · · · · · · · · · · · · ·
1.00-1.45 1.00	SPT N=4 J1			1,1/1,1,1,1					× · · · · · · · · · · · · · · · · · · ·
1.60 1.60 2.00-2.45	B1 J2 U1					(3.60)			× 0 × 0 × 0 × 0 × 0 × 0 × 0 × 0 × 0 × 0
2.70 3.00-3.45 3.30	B2 SPT N=4 B3			1,2/1,1,1,1			differtise.		× 0 × 0 × 0 × 0 × 0 × 0 × 0 × 0 × 0 × 0
4.30 4.30 4.40-4.85	J3 B4 U2 No Recovery			65	25.85	3.760 3.760 distribution of the state of the	mm to stiff black sandy gravelly CLAY containing occasional smooth sub-rounded cobbles and boulders. Gravel is sub-rounded fine to medium		
5.50-5.95 5.50 5.50	SPT N=21 J4 B5			3,3/4,7,5,5 Consert of C	96 ₃₁				
6.50 6.50 6.50-6.95	B6 J5 U3					(5.80)			
7.50 7.50	B7 J6			25/05/2005:DRY 26/05/2005:DRY					
8.00 8.30-8.75	J7 SPT N=68			7,13/15,12,19,22				9	
				26/05/2005	20.05	9.50		2	× 1000 ×
Remarks Permeability Virtual refusa Seepage of v	test carried out at 9.0 al met at 9.50m on bo water from surface.	00m. ulder.					Sc (app	ale prox)	Logged By
Chiselling fro from 5.20m to	om 3.70m to 4.00m fo o 5.40m for 0.5 hours	r 0.5 hour s. Chisellir	rs. Chisel ng from 7	ling from 4.10m to 4.4 .90m to 8.30m for 0.5	40m for 1 i 5 hours. Cl	hour. Chisellin hiselling from (9.40m to 9.50m for 1 hour.	50 gure No 05-271	TR o. 1.GS14

Glo	ver Sit	e Ir	ive	stigatio	ns	Ltd	Site FINGAL LANDFILL PROJECT		Borehole Number GS15
Boring Met Cable Percu		_	Diamete	r ed to 12.20m		Level (mOD) 35.75	Client FINGAL COUNTY COUNCIL		Job Number 05-271
		Locatio		256755.8 N	Dates 23	/05/2005	Engineer RPS-MCOS		Sheet 1/2
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description		Legend Nate
					35.55	0.20	TOPSOIL MADE GROUND: Soft to firm brown gravelly sa containing occasional wire, brick, wood and con	indy CLAY crete	
1.00	B1								
2.00	B2					(4.90)			
3.00	B3						i any other use.		
4.00-4.45 4.00	CPT N=26 B4			6,6/7,6,7,6	edecitor	outo se out out out of the outon of the outon out of the outon out of the outon outon out out out out out out out out out out			
5.00 5.10-5.55	B5 U1 No Recovery				17 30.65	5.10	Firm light brown to orange brown sandy slightly of CLAY containing occasional smooth sub-rounde	gravelly	× • · · · · ·
5.50	J1			Consent of Consent of			Gravel is sub-rounded fine to medium	u cobbles.	× 2 · · · · · · · · · · · · · · · · · ·
6.00-6.45 6.00	CPT N=19 B6			4,4/5,5,5,4		= - - -			x 0 x 0
6.50	J2				29.55	6.20	Stiff black sandy gravelly CLAY containing occas smooth sub-rounded cobbles and boulders. Grav sub-rounded fine to medium	ional zel is	
7.00 7.00-7.45	B7 U2 Short					- - - - -			
7.50	J3								
8.00-8.45 8.00	SPT N=26 B8			6,6/6,7,6,7		(3.80)			
8.50	J4					- - - - - -			
9.00 9.00-9.45	B9 U3								
9.50	J5					<u>-</u> -			
10.00-10.45	SPT N=32			7,8/8,8,8,8	25.75	10.00			× 0. V. ו 0. V. ו 0. V.
Remarks Permeability to Chiselling from	test carried out at 6.0 m 0.50m to 3.50m for	0m and 1 1.5 hour	0.00m. s. Chisell	ing from 3.90m to 5.1	0m for 1.5	hours.		Scale (approx)	Logged By
								1:50	TR
								Figure No 05-27	o. 1.GS15

Boring Metl	nod	Casing	Diamete	stigatio	Ground	Level (mOD) 35.75	FINGAL LANDFILL PROJECT Client FINGAL COUNTY COUNCIL	Job Number
		Locatio			Dates		Engineer	05-271 Sheet
		31	8211.1 E	256755.8 N	20	3/05/2005	RPS-MCOS	2/2
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend to
10.00	B10						Stiff black sandy gravelly CLAY containing occasional smooth sub-rounded cobbles and boulders. Gravel is sub-rounded fine to medium	× 0 ·
10.50	J6							
11.00 11.00-11.45	B11 U4 No Recovery					(2.20)		
11.50	J7							
12.00	B12				23.55	12.20		
				23/05/2005	20.00		Complete at 12.20m	
							net lise.	
						only only	ind other use.	
						outposes di		
					apection	Set 1607		
				çô	ing ight	<u>-</u> - - -		
				Consent of C				
				Contr				
						<u>-</u> 		
		Ċ				- - -		
Remarks irtual refusal hiselling fron	met at 12.20m on bo n 11.80m to 12.20m	oulders. for 1 hou	r.				Scale (appro	Logged By
							1:50 Figur	
								-271.GS15

Boring Me Cable Perc		1	Diamete	er sed to 11.60m		Level (mOD) 33.71	Client FINGAL COUNTY COUNCIL		Job Number
		Locatio			D-4				05-271
				256780.5 N	Dates 27 30	/05/2005- /05/2005	Engineer RPS-MCOS		Sheet 1/2
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	L	egend to
					22.54		TOPSOIL		
					33.51	0.20	MADE GROUND: Soft to firm brown gravelly sandy C containing occasional brick, plastic, wood, material, wi	LAY re,	
						<u>-</u>	metal and concrete		
1.00	B1					-			
1.50-1.95	SDT N=27			401574444					
1.50-1.95	SPT N=37			1,6/5,7,11,14		- - -			
2.00	B2								
	i i								
3.00-3.45 3.00	SPT N=16 B3			9,11/7,4,4,1		<u> </u>			
3.50	J1					-	kany other use.		
0.00						- <i>A</i>	ody office		
4.00	B4					only only only on the only on			
4.50-4.95	U1				20.24	Difficultie	0.00		
4.50-4.55	, O1				29,200	4.50	Stiff black gravelly sandy CLAY containing occasional smooth sub-rounded cobbles and boulders. Gravel is sub-rounded fine to medium	į	
5.00	B5			ço	insight.			×.	
				27/05/2005:DRY	8,	- -		<u>*</u>	
				30/05/2005:DRV		-		 	
6.00 - 6.45 6.00	SPT N=32 B6			7,8/7,7,8,10		- -			
6.50	J2					- -		Ċ X	
	02					- - - (4.50)		Ö	
7.00	B7					-		Ö	
7.50-7.95	SPT N=35			5,8/6,9,9,11		_		<u></u>	
				0,0,0,0,11				× 5	
3.00	B8					_		(×)	
						_		Ó.	
						-		Ċ,	
				Slight Flow(1) at 9.00m, rose to	24.71	9.00	Dense grey silty sandy fine to coarse sub-rounded GRAVEL containing occasional smooth sub-rounded	. × 0.	\(\frac{1}{\chi_{\chi\ti}{\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi}\tinm\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi\tin_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi\tingle\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi\tingle\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi\tingle\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi}\tinm\chi\tingle\chi\tinm\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi}\tinm\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi}\tinm\chi_{\chi_{\chi}\tinm\chi_{\chi\tinm\chi_{\chi_{\chi}\tinm\chi\tinm\chi_{\chi\tinm\chi_{\chi}\chi_{\chi}\chi_{\chi}\chi\tinm\chi_{\chi_{\chi}\chi}\chi\tinm\chi_{\chi\tinm\chi_{\chi\tinm\chi\tinm\chi_{\chi\tinm\chi_{\chi}\chi\tinm\chi\tii\tinm\chi\tinm\chi\tinm\chi\tinm\chi\tinm\chi\tinm\chi\tinm\chi\tinm\chi\tinm\chi\tinm\chi\
9.00-9.45 9.50	SPT N=40 J3			8.60m in 20 mins. 4,9/7,10,10,13		- (1.00)	GRAVEL containing occasional smooth sub-rounded cobbles and boulders	ġ.	o × ·
						(1.00)		, × 0.	.0×,0
Remarks					23.71	10.00			:0:×.
niselling fro	m 0.60m to 1.00m for	r 0.5 hour	s. Chisell	ing from 9.20m to 9.60	0m for 1 h	our.	Sc (app	rox) B	ogged By
							1:	50	TR
							_	ure No. 05-271.G	S16

Glo	ver Sit	e Ir	ıve	stigatio	ns	Ltd	Site FINGAL LANDFILL PROJECT	Boreho Number GS16
Boring Meth Cable Percus			Diamete	er sed to 11.60m	Ground	33.71	Client FINGAL COUNTY COUNCIL	Job Number 05-271
		Locatio		256780.5 N	Dates 2	7/05/2005- 0/05/2005	Engineer RPS-MCOS	Sheet
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend
10.00	B9 SPT N=43 B10			5,11/7,8,14,14		(1.60)	Dense grey silty sandy fine to coarse sub-rounded GRAVEL containing occasional smooth sub-rounded cobbles and boulders	
11.60	J4			30/05/2005 Consent of consent of			Complete at 11.60m	
Virtual refusal	met at 11.60m on b n 11.40m to 11.60m	oulders. for 1 hou	r.					

Glo	over Sit	e Ir	ıve	stigatio	ns	Ltd	Site FINGAL LANDFILL PROJECT	Borehole Number GS17
Boring Me Cable Perc		ŀ	Diamete 0mm cas	ed to 11.50m	1	Level (mOD) 35.08	Client FINGAL COUNTY COUNCIL	Job Number 05-271
		Locatio		56419.8 N	Dates 23, 24,	/05/2005- /05/2005	Engineer RPS-MCOS	Sheet 1/2
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend Nater
					34.78	(0.30)	TOPSOIL Firm brown sandy gravelly CLAY containing occasional smooth sub-rounded cobbles. Gravel is sub-rounded fine to medium	
1.00-1.45 1.00 1.00	SPT N=9 J1 B1			1,1/2,1,3,3				x 0 x 0
2.00 2.00 2.00-2.45	B2 J2 U1							× · · · · · · · · · · · · · · · · · · ·
2.70 2.70 3.00-3.45 3.00 3.00	B3 J3 SPT N=28 B4 J4			5,4/6,7,7,8	32.48	2.60	Stiff to very stiff black gravelly sandy CLAY containing occasional smooth sub-rounded cobbles and boulders. Gravel is sub-rounded fine to medium	
4.00 4.00 4.00-4.45	J5 B5 U2			23/05/2005:DRY 24/05/2005	citor	outposes only outposes fedured to	Farry Office tise.	
5.10-5.55 5.10	SPT N=27 J6			3,8/4,7,7,9 Fo	ingection Dylight of			
6.20-6.65 6.40 6.40	U3 B6 J7					(7.40)		
7.30-7.75 7.30 7.30 7.70	SPT N=31 B7 J8 B8			3,4/10,5,7,9		-		
8.40 8.40-8.85	B9 U4							
9.90	B10				25.08	10.00		
Remarks Permeability	test carried out at 5.0	00m and 1	0.50m.				Scale (approx)	Logged By
							1:50 Figure N	TR o. 1.GS17

Cable Percussion	Glo	ver Sit	e Ir	ıve	stigatio	ns	Ltd	Site FINGAL LANDFILL PROJECT		Borehol Number GS17	٢
Depth Sample / Tests Casing Worth Field Records Casing						Ground				Job Number 05-271	
Section Sect					56419.8 N	2:	3/05/2005- 4/05/2005			Sheet 2/2	_
9.00 Jg	Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description		Legend	Vater
11.50-11.50 Story	10.30-10.52	SPT 24/70			13,12/24			Stiff to very stiff black gravelly sandy CLAY controcasional smooth sub-rounded cobbles and bo Gravel is sub-rounded fine to medium	aining ulders.		_
Virtual refusal met at 11.50m on boulder. Chiselling from 10.10m to 10.20m for 0.5 hours. Chiselling from 10.50m to 11.30m for 1 hour. Chiselling from 11.30m to 11.50m for 1 hour.	11.50-11.50	SPT 25*/0 50/0			25,0/50		handalalalalalalalalalalalalalalalalalala				
Figure No.	Virtual refusal	met at 11.50m on t n 10.10m to 10.20m	poulder. for 0.5 ho	ours. Chis	selling from 10.50m to	o 11.30m f	or 1 hour. Chie	selling from 11.30m to 11.50m for 1 hour.	1:50	Logged By	

Glo									GS18
Boring Meth Cable Percu		_	Diamete 0mm cas	r ed to 11.80m	Ground Le	vel (mOD) .38	Client FINGAL COUNTY COUNCIL		Job Numbe 05-27
		Locatio 31		256772.8 N	Dates 25/08 26/08	5/2005- 5/2005	Engineer RPS-MCOS		Sheet 1/2
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) hickness)	Description		Legend
					37.28	0.10	TOPSOIL MADE GROUND: Soft to firm brown to black grasendy CLAY containing occasional brick, wood, coplastic and metal	velly oncrete,	
1.00	B1					-			
1.50-1.95	SPT N=27			2,1/7,9,7,4					
2.00	B2					_ (4.40)			
3.00-3.45 3.00	SPT N=23 B3			4,7/7,6,5,5		-	g,·		
5.50	J1						kany dite i use.		
.00	B4					- only 100 ses	Rup.		
.50-4.95	SPT N=19			3,4/4,5,5,5	32.88 History	4.50	Firm dark brown sandy CLAY		* x
5.00	B5			ا م	Myright Sayring St. 31.98	- (0.90) 5.40			× × × × × × × × × × × × × × × × × × ×
i.00-6.45	SPT N=6 B6			1,1/2,2,1,1	31.48	(0.50) _ 5.90	Medium dense brown silty fine to medium SAND Loose to medium dense dark brown silty sandy fin medium sub-rounded GRAVEL containing occasio pockets of brown gravelly clay	ne to onal	× × × × × × × × × × × × × × × × × × ×
.50	J2					(1.60)		ĺ	* *
.00	B7					-			×
.50-7.95	U1 Short				29.88	7.50	Stiff black gravelly sandy CLAY containing occasions smooth sub-rounded cobbles and boulders. Grave sub-rounded fine to medium		
.00	B8					-			
00-9.45 00	SPT N=36 B9			7,8/9,9,8,10		(2.50)			
50	J3			25/05/2005:DRY 26/05/2005:6.90m					
Remarks ermeability to	est carried out at 5.0	0m.			27.38	10.00		Scale	Logged
hiselling fror	n 1.20m to 1.50m for m for 1 hour.	r 1 hour. (Chiselling	from 3.70m to 4.10m	for 1 hour. C	Chiselling fr	om 7.90m to 8.10m for 1 hour. Chiselling from	Scale (approx)	Logged By

				stigatio	ns	Ltd	FINGAL LANDFILL PROJECT		GS18
Boring Meth Cable Percus		1	Diamete Omm cas	er sed to 11.80m	Ground	37.38	Client FINGAL COUNTY COUNCIL		Job Number 05-271
		Locatio		256772.8 N	Dates 25	5/05/2005- 5/05/2005	Engineer RPS-MCOS		Sheet 2/2
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description		Legend
10.00 10.50-10.95 11.00	B10 SPT N=41 B11			8,10/8,12,12,9			Stiff black gravelly sandy CLAY containing occasion smooth sub-rounded cobbles and boulders. Gravel i sub-rounded fine to medium	nal is	
11.80	J4			26/05/2005	25.58		Complete at 11.80m		
				ÇiĞ	inspected	ALLEGE OF SECOND CONTROL OF SE	Kany offer tise.		
				Consent of C	8				
Remarks									
Standpipe insta /irtual refusal i	alled to 11.80m. met at 11.80m on b n 11.70m to 11.80m	oulder. for 1.5 ho	ours.					Scale approx)	Logged By
	_						 	1:50 Figure No 05-271	TR o. 1.GS18

				r Si		nvestigati	ons	Lte	d	Site FINGAL L	ANDFILL	- PROJE	СТ				Borehol Number GS18
Install WATE				ING	Dimensi Intern Diame	ions al Diameter of Tube [A] = 50 eter of Filter Zone = 200 mm	mm			Client FINGAL C	COUNTY	COUNC	IL	•			Job Number 05-271
					Location 31814	n 15.7 E 256772.8 N	Ground 3	Level (m 7.38	iOD)	Engineer RPS-MCC	os						Sheet 1/1
egend	Water	ins (A	str ()	Level (mOD)	Depth (m)	Description		_		G	roundwa	iter Strik	es Durin	g Drilling			
						Concrete	Dete	T	Depth	Casing				Read	lings		Depth
				36.88	0.50		Date	Time	Depth Struck (m)	Casing Depth (m)	Intiov	v Rate	5 min	10 min	15 min	20 min	Depth Seale (m)
						Cement/Bentonite Grout											
				24.00	2.50			··									
	/ D 0 0 0 0			34.88	2.50	Gravel Filter				Gr	oundwat	er Obsei	rvations	During D	rilling		
	5 6 0 6 0 Ta			34.38	3.00		Date			Start of S	1				End of Sh		
	10 m 00 m o c							Time	Depth Hole (m)	Casing Depth (m)	Water Depth (m)	Water Level (mOD)	Time	Depth Hole (m)	Casing Depth (m)	Water Depth (m)	Water Level (mOD
	7 200 200 5 0 C			4			25/05/05 26/05/05	0800	10.00		6.90 ©	30.48	1700	10.00 11.80		DRY	
× · · · · · · · · · · · · · · · · · · ·	ง ซีอัธีอัฐ อัฐ ซีอ อ จ ซีออ์ธีอัฐ ซี จตั้ง อัฐ	20 20 20 20 20 20 20 20 20 20 20 20 20 2	00 0 00 40 0 00 00 00 00 00 00 00 00 00					Voce	s dio	and Other W							
× × × × × × × × × × × × × × × × × × ×	0 4 0 5 5 8 0 8 5 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9						oecit ⁱ	n purposs		Instru	ıment Gr	oundwa	ter Obse	rvations			
×	BO BOOK 5 5 5 5					~	or inspect	A] Type	:	1							
×	000000000000000000000000000000000000000					Slotted Standpipe		Ins	trument	[A]				Rema	. wlea		
×	0 1000 000 000 000					Slotted Standpipe Consett of	Date	Time	Depth (m)	Level (mOD)				Kema	IFKS		
	000000000000000000000000000000000000000																
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	90000 Pag		2000 2000 2000 2000 2000			Gravel Filter											
×	9,000 9,000 10,0		#888 840	25.58	11.80												

Glo	ver	Sit	e Ir	ıve	stigatio	ns	Ltd	Site FINGAL LANDFILL PROJECT		Borehole Number HR01A
Machine: H. Flush: A Core Dia: 75	IR/MIST	LAND		Diamete 4mm ca	er sed to 17.50m	ı	Level (mOD) 34.70	Client FINGAL COUNTY COUNCIL		Job Number 05-271
Method : S		ORING	Location 31		E 259233.2 N	Dates 05	5/05/2005- 6/05/2005	Engineer RPS-MCOS		Sheet 1/3
Depth (m)	TCR	SCR	RQD	FI	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	L	Vater V
			0	0	Moderate Flow(1) at 3.00m.		(3.00) (3.00) (6.00)	MADE GROUND: Brown sandy gravelly CLAY DRILLER'S DESCRIPTION: Brown slightly sandy GRAVE becoming sandier with depth		▼ 1
Remarks Borehole term Standpipe insi	ninated at	scheduled	depth.			24.70	10.00	Scale (appro	, I	Logged By
standpipe inst Descriptions b Hand dug inst	talled to 2 pased on o pection pit	7.70m. drillers log: to 1.20m.	s. No testi	ing or sa	mpling of overburden	required.		1:50	"	TR
								Figure 05-		

Glo	over	Sit	e Ir	ıve	stigatio	ns	Ltd	Site FINGAL LANDFILL PROJECT	Borehole Number HR01A
Machine : I Flush : / Core Dia : 7	AIR/MIST	SLAND	_	Diamete 4mm ca	er sed to 17.50m		Level (mOD) 34.70	Client FINGAL COUNTY COUNCIL	Job Number 05-271
Method : 5		ORING	Locatio		E 259233.2 N	Dates 05 06	5/05/2005- 6/05/2005	Engineer RPS-MCOS	Sheet 2/3
Depth (m)	TCR	SCR	RQD	FI	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Vater Vater
					Moderate Flow(2) at 10.00m.	24.20	10.50	DRILLER'S DESCRIPTION: Brown slightly sandy GRAVEL becoming sandier with depth DRILLER'S DESCRIPTION: Gravelly SAND	$ abla_2$
					05/05/2005 06/05/2005:6.00m	23.20	11.50	DRILLER'S DESCRIPTION: Slightly sandy GRAVEL	
					Moderate Flow(3) at 13.00m.	21.70 20.70 20.20 20.40	13.00 (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00)	DRILLER'S DESCRIPTION: Sandy GRAVEL DRILLER'S DESCRIPTION: Very sandy GRAVEL DRILLER'S DESCRIPTION: Sandy GRAVEL with occasional cobbles	V 3
					Consent of C	17.70	(2.50)	Strong thin to medium bedded medium grey fine grained micritic LIMESTONE interbedded in medium beds of	0.0000 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.000000
17.50 17.75 17.85 18.05 18.40 18.80	100	67	39	4 Non-Ir 28 29 4	at 17.20m.		(3.00)	moderately weak to weak thinly laminated very dark grey shaley mudstone. Discontinuities are close to medium spaced in limestone, very to extremely close in mudstone, dipping 20-30 degrees. Bedding parallel, smooth, planar, tight, clean. Discontinuities in mudstone, medium spaced, dipping 70 degrees, smooth planar, tight, coated in very thinly calcite	
19.55	100	93	60	2		14.70	20.00		
·······································								Scale (approx)	Logged By
								Figure N 05-27	No. 1.HR01A

Glo	over	Sit	e Ir	ıve	stigatio	ns	Ltd	Site FINGAL LANDFILL PROJECT	Borehole Number HR01A
Machine: Flush : A	AIR/MIST	LAND		Diamete 4mm cas	er sed to 17.50m	Ground	1 Level (mOD) 34.70	Client FINGAL COUNTY COUNCIL	Job Number 05-271
Method : S			Locatio 31		E 259233.2 N	Dates 09	5/05/2005- 6/05/2005	Engineer RPS-MCOS	Sheet 3/3
Depth (m)	TCR	SCR	RQD	FI	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend to
20.60 20.80				45				Strong thin to medium bedded medium grey fine grained micritic LIMESTONE interbedded in medium beds of moderately weak to weak thinly laminated very dark grey shaley mudstone. Discontinuities are close to medium spaced in limestone, very to extremely close in mudstone, dipping 20-30 degrees. Bedding parallel, smooth, planar, tight, clean.	
21.25 21.75	97	80	60	48				Discontinuities in mudstone, medium spaced, dipping 70 degrees, smooth planar, tight, coated in very thinly calcite	
22.10 22.40 23.10 23.20	100	93	57	3 55 2 NI 35				ertise.	
23.60	97	84	63	18		inglectic	17.70 (7.70)	Tany offer use.	
25.00 25.10 25.60	100	77	62	Non-Ir	tact Consept of C	opytie			
26.40 26.80 27.10 27.55	100	96	62	20 4					
27.70					06/05/2005:4.20m	7.00	27.70	Complete at 27.70m	
Remarks								Scale (approx) 1:50 Figure I	TR

				511		nvestigati	ons	Lte	d	FINGAL L	ANDFILL	. PROJE	СТ				HR01
		Type ONIT(ORING		Dimensi Intern Diame	ions al Diameter of Tube [A] = 50 eter of Filter Zone = 114 mm	mm			Client FINGAL C	COUNTY	COUNC	L				Job Number 05-271
					Location 31865	n 57.3 E 259233.2 N	Ground 3	Level (m 4.70	OD)	Engineer RPS-MCC	os	 .					Sheet 1/1
end	Water	Instr (A)	Lev (mC	(el (D)	Depth (m)	Description				G	roundwa	ıter Strik	es Durin	g Drilling			
***				.40	0.30	Concrete	 	_	Denth	1				Read			Τ
<u>₩</u>						Cement/Bentonite Grout	Date	Time	Depth Struck (m)	Casing Depth (m)	Inflo	w Rate	5 min	T	15 min	20 min	Depti Seale (m)
	∇ 1		31	.70	3.00				3.00 10.00 13.00 17.20		Modera Modera	ate Flow ate Flow ate Flow ate Flow					
×										Gre	oundwat	er Obsei	vations	During D	rilling		
×										Start of S	hift		-	Ε	nd of Sh	nift	
							Date	Time	Depth Hole (m)	Casing Depth (m)	Water Depth (m)	Water Level (mOD)	Time	Depth Hole	Casing Depth (m)	Water Depth (m)	Water Level (mOD
×			Topfill				05/05/05 06/05/05	0800	11.50		6.00	28.70	1700 1700	(m) 11.50 27.70	(111)	4.20	30.50
×	∇2							چ	es off of	ady other w	So.						
	☑ 3				:		ecit ⁱ	in boried	<u> </u>		ment Gr	oundwa	ter Obse	rvations			
<u>٥</u> , ٥,٠						4	Sollar [A] Type	:	[A]	- to contain						
×,	7 /		18.	60	16.10	Cement/Bentonite Goodt	Date	Time	Depth					Rema	ırks		
			16.	60	18.10					(27							
	5 6 7 6 7 6 7 6 7 6 7 7 7 7 7 7 7 7 7 7	0,000,000,000,000,000,000,000,000,000,	15.	95	18.75	Gravel Filter											
	ର ସମ୍ପର୍ଶ କରମ ଅନ୍ତର୍ଶ କରମ ଅନ୍ତର୍ଶ କରମ ଅନ୍ତର୍ଶ କରମ ଅନ ଆଧାର ପ୍ରତ୍ୟର୍ଶ କରମ ଅନ୍ତର୍ଶ	ૡ૽૽ૡૺૡ૽૽ૡ૽ૺૡ૽ૺૡ૽ૺૡ૽ૺૡ૽ૺૡઌઌ૽ૺૡઌઌઌઌઌઌઌઌઌઌ	ව මේ වැඩි වැඩි වැඩි විය වී. මේ වැඩි විය වී. මේ වැඩි විය වැඩි වෙන වැඩි වෙන වැඩි වෙන වැඩි වෙන වැඩි වෙන වැඩි වෙන ව			Slotted Standpipe											
<u> </u>	\$ 95 00 00 00 00 00 00 00 00 00 00 00 00 00		7.0	0	27.70												

Glo	over Sit	e Ir	ive	stigatio	ns	Ltd	Site FINGAL LANDFILL PROJECT		Borehole Number HR01B
Boring Met SYMMETRI	hod X DRILLING	1	Diamete 4mm cas	ed to 17.00m		Level (mOD) 34.93	Client FINGAL COUNTY COUNCIL		Job Number 05-271
		Locatio 31		259238.2 N	Dates 09	9/05/2005	Engineer RPS-MCOS		Sheet 1/2
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description		Legend k
					33.93	1.00	MADE GROUND: Brown sandy gravelly CLAY DRILLER'S DESCRIPTION: Black slightly sandy CL containing occasional fine to medium sub-rounded g	LAY gravel	
				Moderate Flow(1) at 2.50m.	32.43	2.50	DRILLER'S DESCRIPTION: Black slightly sandy cla GRAVEL with cobbles	ayey	▼ V
				Moderate Flow(2) at 5.20m.	inspection inspection or inspection or inspection	(2,70)	DRILLER'S DESCRIPTION: GRAVEL		9 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
						(2.30)			
					27.43	7.50	DRILLER'S DESCRIPTION: SAND and GRAVEL wi cobbles	ith :	, p, o, o, o, o, o, o, o, o, o, o, o, o, o,
					26.43	8.50	DRILLER'S DESCRIPTION: Gravelly SAND		
Daw					24.93	10.00			
Remarks Symmetrix dr Descriptions I No testing or	illing to 17.00m. based on driller's log sampling of overbure	s. den					(a	Scale approx)	Logged By
tandpipe ins lorehole tern	sampling of overburd stalled to 17,00m. ninated at scheduled	depth.						1:50 Figure No 05-271.	TR o. .HR01B

Boring Me			Diamete	stigatio		Level (mOD)	FINGAL LANDFILL PROJECT Client	HF Joi	R01B
SYMMETR	IX DRILLING	11	4mm cas	sed to 17.00m		34.93	FINGAL COUNTY COUNCIL		mber 5-271
		Locatio 31		259238.2 N	Dates 09	9/05/2005	Engineer RPS-MCOS	i	eet 2/2
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Lege	Water
				Moderate Flow(3) at 12.00m. Consent of Cons	17.93	(0.50) 10.50 10.50 11.50) 12.00 15.50 16.50 16.50 17.00	DRILLER'S DESCRIPTION: Brown gravelly CLAY containing cobbles DRILLER'S DESCRIPTION: Sandy GRAVEL containing cobbles DRILLER'S DESCRIPTION: Sandy GRAVEL containing cobbles Complete at 17.00m		N
Remarks							Scale (appro	e Log x) By	ged
							1:50	Т	R
							Figur 05-	e No. 271.HR01	1B

Install WATE	atio	n Ty	уре	-	Dimensi	ons al Diameter of Tube [A] = 50 reter of Filter Zone = 114 mm				FINGAL L	 -						Job Number
					Diame	eter of Filter Zone = 114 mm				FINGAL C	COUNTY	COUNC	IL				05-271
					Location 31865	n 7.7 E 259238.2 N	Ground 3	Level (m 4.93	iOD)	Engineer RPS-MC0	os						Sheet 1/1
egend	Water	In	str A)	Level (mOD)	Depth (m)	Description		_	L	G	roundwa	ater Strik	es Durin	g Drilling	9		
		**.		0.4.40		Concrete			Depth Struck	Casing				Read	lings		Depth
				34.43	0.50		Date	Time	Struck (m)	Casing Depth (m)	Inflo	w Rate	5 min	10 min	15 min	20 min	Depth Sealed (m)
× × × × × × × × × × × × × × × × × × ×	∇1					Cement/Bentonite Grout			2.50 5.20 12.00		Modera	ate Flow ate Flow ate Flow					
0.0×.0 0.×.0				31.93	3.00												
										Gr	oundwat	er Obsei	rvations	During D	rilling		
۰.۰.×										Start of S	hift			E	nd of Si	hift	
, 0, 10 0 ×	T70						Date	Time	Depth Hole (m)	Casing Depth (m)	Water Depth (m)	Water Level (mOD)	Time	Depth Hole (m)	Casing Depth (m)	Water Depth (m)	Water Level (mOD)
, , ,	∇ 2						09/05/05					(11100)	1700	17.00		(111)	(IIIOD)
										3	ف.						
						Topfill			sonly.	any other is							
					ļ			- 1170°	ined,						-	<u> </u>	
							oeciti (on Purple	·		ıment Gr	oundwat	ter Obse	rvations			
						4	J inst.	[A] Type	:	ı							
•						્રં	COBAL	Inst	trument	[A]							
· · · · · ·				24.43	10.50	Consento	Date	Time	Depth (m)	Level (mOD)				Rema	ırks		
× · · · · · · · · · · · · · · · · · · ·						Cement/Bentonite Grout											
0.0.0	Y 3			22.23	12.70 13.00	Gravel Filter											
	2.0 º 0,00 0 º 0 º 0 º 0 º 0 º 0 º 0 º 0 º	20 5 50 70 50 50 50 50 50 50 50 50 50 50 50 50 50	క్స్లోని కోప్పడ్ అన్న క్రూప్స్లిని ఆక్ట్మిస్తేన్ని అన్న క్రూప్స్ ఆక్ట్మిస్తున్నే అన్న ఇక్కొం ఆక్ట్మెస్ట్స్ క్ర స్ట్రాక్ట్మిస్తున్న కాల్లన్ కర్య క్రిక్స్ క్రామ్ క్రామ్ క్రిక్ట్ క్రిక్స్ క్రిక్స్ క్రామ్ కాన్ క్రిక్స్ క్రిక్ కోట్టికి ఎక్కు కోట్టికి మార్క్స్ క్రిక్స్ కోస్త్ క్రిక్స్ కోట్టికి అన్న ఇక్క్ క్రిక్స్ కోట్టికి అన్న ఇక్క్ క్			Slotted Standpipe											
0 × . 0 × . 0 × . 0 × .	రాగ్ధం లోజుద్దార్లు కొరత్స్త్రి		30 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	17.93	17.00												

Geotextile sock fitted around filter. Upright cover fitted. End cap at base of standpipe.

Depth Sample / Teets Speling Wester Field Records Amob Track T	Glo	ver Sit	e Inv	estigatio	ns Ltd	Site FINGAL LANDFILL PROJECT		Borehole Number HR02
Depth (Sample / Tests Central Depth (RIS)			1					Job Number 05-271
TOPSOL TOPSOL				5.2 E 258817.5 N	Dates 16/05/2005- 17/05/2005			i
Transfer based on driller's logs. Itelang or sampling required inspire installed 20 3.00m. 27.45 10.00 TR. Scale of the sampling required inspire installed 20 3.00m. Scale of the sampling required inspire installed 20 3.00m.	Depth (m)	Sample / Tests	Casing Wa Depth De (m) (r	ater pth Field Records n)	Level Depth (mOD) (m) (Thickness)	Description	, <u>-</u>	Legend
scriptions based on driller's logs. testing or sampling required. indpipe installed to 33.00m. rehole terminated at scheduled depth. 1:50 TR	lemarke.			Consent	haditalahdalahdalahdalahdalahdalahdalahdalah	DRILLER'S DESCRIPTION: Brown BOULDER CL		
	Remarks escriptions to testing or a	pased on driller's log sampling required.	s.				Scale (approx)	Logged By
	andpipe ins rehole term	talled to 33.00m. ninated at scheduled	depth.					

Glo	over Sit	e Ir	ive	stigatio	ns	Ltd	Site FINGAL LANDFILL PROJECT		Borehole Number HR02A
Boring Met SYMMETRI	thod IX DRILLING		Diamete 8mm cas	ed to 33.00m		Level (mOD) 37.45	Client FINGAL COUNTY COUNCIL		Job Number 05-271
		Locatio		258817.5 N	Dates 16 17	/05/2005- /05/2005	Engineer RPS-MCOS		Sheet 2/4
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description		Legend X
				Moderate Flow(1) at 10.00m. Moderate Flow(2) at 19.00m. 16/05/2005	ite getion of the rest of the	(10.00)	DRILLER'S DESCRIPTION: SAND and GRAVI	EL .	$ abla_1$
Remarks					Г			Scale (approx)	Logged By
								1:50	TR
								Figure N 05-27	lo. '1.HR2A

Glove	er Sit	e Ir	ive	stigatio	ns Ltd	Site FINGAL LANDFILL PROJECT	Borehole Number HR02A
Boring Method SYMMETRIX DRI	LLING		Diamete 8mm cas	r ed to 33.00m	Ground Level (m 37.45	Client FINGAL COUNTY COUNCIL	Job Number 05-271
		Locatio 31		258817.5 N	Dates 16/05/2005 17/05/2005	Engineer RPS-MCOS	Sheet 3/4
Depth (m) Sa	mple / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level Depti (mOD) (m) (Thickne	Description	Legend A
Pomarko				Consent of C	Hartistella de la la la la la la la la la la la la la		
Remarks						Sca (appr	ale Logged rox) By
							0 TR ure No. 05-271.HR2A

Glo	ver Sit	e Ir	ive	stigatio	ns	Ltd	Site FINGAL LANDFILL PROJECT	Boreh Numb	er
Boring Metal		ľ	Diamete 8mm cas	er sed to 33.00m	Ground	37.45	Client FINGAL COUNTY COUNCIL	Job Numb 05-2	
		Locatio		258817.5 N	Dates	6/05/2005- 7/05/2005	Engineer RPS-MCOS	Sheet	
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
				17/05/2005	in the distriction of the second	33.00) 33.00 33.00	Black fine to medium grained LIMESTONE containing thin mudstone layers. Highly fractured Complete as 33.00m Figure 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.		
Remarks							Scale (approx)	Logged By	d
							1:50	TR	
							Figure N 05-27	lo. '1.HR2A	

	ation ER MO	Type ONITOF	RING	Dimensi Intern Diame	ons al Diameter of Tube [A] = 50 eter of Filter Zone = 168 mm	mm	-		Client FINGAL C	COUNTY	COUNC	L				HR0 Job Numb 05-2
				Location 31866	n 35.2 E 258817.5 N	Ground 3	Level (m 7.45	iOD)	Engineer RPS-MCC	os					:	Sheet
end	Water	Instr (A)	Level (mOD)	Depth (m)	Description				G	roundwa	ater Strik	es Durin	g Drilling			
	1		36.95	0.50	Concrete	 		Depth					Read			De
						Date	Time	Depth Struck (m) 10.00 19.00	Casing Depth (m)	Modera	w Rate ate Flow ate Flow	5 min	10 min	15 min	20 min	Se (
									Gre	oundwat	ter Obsei	rvations	During D	rilling		
). 2.						Date			Start of S		18/-4		r	nd of Sh		
$\sum_{i=1}^{N}$	∇ 1				Cement/Bentonite Grout	16/05/05	Time	Depth Hole (m)	Casing Depth (m)	Water Depth (m)	Water Level (mOD)	Time		Casing Depth (m)	Water Depth (m)	W Le (m
				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Germen Dernomic Grout	17/05/05	0800	20.00	any other i	Ö.		1700	20.00			
						Jan San	on Purel Switch rec	~		ıment Gı	oundwa	ter Obse	rvations			
						100	***	trument	t [A]		-				-	
Ţ	∇ 2		10.45		Consent	Date	Time	Depth (m)					Rema	ırks		
	000 000 000 000 000 000 000 000 000 00	200 50 210 50 210 50 200 50 50 50 50 50 50 50 50 50 50 50 50 5	16.45 15.95	21.50	Gravel Filter							,				
	00 - 00 00 00 00 00 00 00 00 00 00 00 00	**************************************			Slotted Standpipe											
	\$\frac{1}{2} \cdot \frac{1}{2}	00.0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4.45	33.00												

Glo	ver Sit	e Ir	ive	stigatio	ns I	_td	Site FINGAL LANDFILL PROJECT		Borehole Number HR02B
Boring Met SYMMETRI			Diamete 8mm cas	er sed to 15.70m		evel (mOD) 7.30	Client FINGAL COUNTY COUNCIL		Job Number 05-271
		Locatio		258810.8 N	Dates 17/0)5/2005	Engineer RPS-MCOS		Sheet 1/2
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) Thickness)	Description	-	Legend Page N
				Slight Flow(1) at 4.00m. Moderate Flow(2) at 9.50m.	37.20 THE RECTOR STATES OF THE PARTY OF THE	9.50 (0.50)	DRILLER'S DESCRIPTION: Brown BOULDER C		V2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0
Remarks Standpipe ins	stalled to 15.70m.				27.30	10.00		Scale (approx)	Logged By
No testing or Descriptions Borehole tern	stalled to 15.70m. sampling required. based on driller's log ninated at scheduled	s. depth.						1:50	TR
								Figure N 05-27	o. 1.HR2B

Glo	ver Sit	e Ir	ıve	stigatio	ns Ltd	Site FINGAL LANDFILL PROJECT		Borehole Number HR02B
Boring Met	hod X DRILLING		Diamete 8mm cas	er sed to 15.70m	Ground Level (mOD) 37.30	Client FINGAL COUNTY COUNCIL		Job Number 05-271
		Locatio		258810.8 N	Dates 17/05/2005	Engineer RPS-MCOS		Sheet 2/2
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level Depth (m) (Thickness)	Description		Legend Mater
				Moderate Flow(3) at 13.00m.	THE DECT OF THE PERSON NAMED IN THE PERSON NAM	DRILLER'S DESCRIPTION: GRAVEL and SAND Start of the complete at 15.70m		Ø 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0
Remarks	-					(a	Scale approx)	Logged By
							1:50	TR
						1	Figure No 05-271	o. I.HR2B

				r Si	te li	nvestigati	ons	Lt	d	Site FINGAL L	ANDFILI	_ PROJE	СТ				Borehole Number HR02B
Install WATI				RING	Dimens Intern Diam	ions al Diameter of Tube [A] = 50 eter of Filter Zone = 168 mm	mm	•		Client FINGAL C	COUNTY	COUNC	IL	···			Job Number 05-271
					Locatio 31866	n 65.9 E 258810.8 N		Level (m 37.30	nOD)	Engineer RPS-MCC	os						Sheet 1/1
Legend	Water	In (str A)	Level (mOD)	Depth (m)	Description				G	roundwa	ater Strik	es Durin	g Drillin	9		
// / / / / / / / / / / / / / / / / / /				36.80	0.50	Concrete	Date	Time	Depth Struck	Casing Depth (m)	Inflo	w Rate		Read	lings		Depth.
				30.00	0.30		Date	Time	4.00 9.50 13.00	(m)	Slight F		5 min	10 min	15 min	20 min	Depth Sealed (m)
												ter Obse	rvations				
	∇1						Date	Time	Depth Hole	Start of S Casing Depth (m)	Water Depth (m)	Water Level (mOD)	Time	Depth Hole (m)	Casing Depth (m)	Water Depth (m)	Water
						Cement/Bentonite Grout	17/05/05		(m)	(m)		(mOD)		(m) 15.70	(m)	(m)	(mOD)
								Ditto:	esonly.	ady of							
							inspecti	on reite owner [A] Type		Instru	ıment Gı	oundwa	ter Obse	rvations			
						· · · · · · · · · · · · · · · · · · ·	087		trument	: [A]							
	∇ 2			27.70	9.60	Gravel Filter	Date	Time	Depth (m)	Level (mOD)				Rema	arks		
		20 0 1 20 0 20 20 20 20 20 20 20 20 20 20 20 2	్ ఎల్ లో ఎక్కై లో నిర్వి లో చెల్లో నిర్వి లో ఎల్లో ఎక్కువ స్ట్రాన్స్ ప్రాప్తాన్న క్రిమిక్స్లోన్న స్ట్రాన్స్లో ప్రాప్తాన్న ప్రాప్తాన్న ప్రాప్తాన్న క్రిమిక్స్లోన్న స్ట్రాన్స్లో ప్రాప్తాన్న ప్రాప్తాన్న ప్రాప్తాన్న ప్రాప్తాన్న ప్రాప్తాన	26.60	10.70												
	∇ 3		30 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			Slotted Standpipe											
	THE TAX DESCRIPTION OF THE PROPERTY OF THE PRO	0.000 0.000	స్త్రీని రోడ్పిన్నీ అన్నే కూర్తిన్ని కూడిస్తుందే. కూడిస్తుందే. కూడిస్తుందే. కూడిస్తుందే. గ్రోక్స్ రూపులో చానే కూడి కోర్యాల్లో కాన్ కొన్ని కోర్యాల్లో కాన్ కొన్ని కోర్యాల్లో ట్రాం చేస్పైలో అన్నికి కోర్యాల్లో కాన్ కొన్నికి కోర్యాల్లో కాన్ కోర్యాల్లో కూడిస్తోన్ని కోర్యాల్లో కూడిస్తోన్న	21.60	15.70												
Upright	tile	ver f	itted	d around fi								<u> </u>					

Glo	over	Sit	e Ir	ıve	stigatio	ns	Ltd		Site FINGAL LANDFILL PROJECT	Borehole Number HR03
Machine: H	AIR-MIST	LAND	1	Diamete 4mm cas	sed to 10.00m	i	Level (m 6	OD)	Client FINGAL COUNTY COUNCIL	Job Number 05-271
Method : S		ORING	Locatio 31		258662.5 N	Dates 10)/05/2005		Engineer RPS-MCOS	Sheet 1/3
Depth (m)	TCR	SCR	RQD	FI	Field Records	Level (mOD)	Depth (m) (Thickne	ı ess)	Description	Vater Pueser
		SUK	RQD		Consent of Consent of	58.82 57.82 55.32 55.32 53.82	(2.8	50) 50 50 50 50 50 60)	TOPSOIL DRILLER'S DESCRIPTION: Brown slightly sandy CLAY DRILLER'S DESCRIPTION: Brown SAND with occasional cobbles	Legend ray
10.00 Remarks Borehole terridad dug in: Hand dug in: Descriptions	minated at spection pit spased on a	scheduled to 1.00m.	depth.	ing or sa	Seepage(1) at 8.50m.	52.32 50.32 49.32	9.0	000	Moderately strong thinly bedded silty micritic LIMESTONE. Jointing bedding parallel, dipping 20 degrees. Medium spaced joints dipping 70 degrees, planar smooth, tight, clean or thin calcitic mineral coating Scale (approx)	V1 Logged
Descriptions Packer tests Standpipe in	based on o carried out stalled to 2	drillers log: at 13.50n 0.20m.	s. No test n and 20.2	ing or sai 20m = Sii	mpling of overburden ngle.	required.			1:50 Figure 05-2	AM No. 71.HR03

Glo	ver	Sit	e Ir	ive	stigatio	ns	Ltd	Site FINGAL LANDFILL PROJECT	Borehole Number HR03
Machine : ⊢	HANS ENG	LAND	Casing	Diamete	r	Ground	Level (mOD)	Client	Job
Flush : A	JR-MIST		11	4mm cas	sed to 10.00m		59.32	FINGAL COUNTY COUNCIL	Number 05-271
Core Dia: 7	5		1 4: -			D (
1	SYMMETRI DRILLING T 0.00m & C O 20:20m	ro	Locatio 31		258662.5 N	Dates 10)/05/2005	Engineer RPS-MCOS	Sheet 2/3
Depth (m)	TCR	SCR	RQD	FI	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend Nate
10.70	90	27	0	Non-Ir	ntact			Moderately strong thinly bedded silty micritic LIMESTONE. Jointing bedding parallel, dipping 20 degrees, closely spaced to very closely spaced to 13.60m, planar, smooth, tight, clean, occasional slightly weathered slightly stained/weak, crumbly. Below 13.60m, medium to closely spaced. Medium spaced joints dipping 70 degrees, planar smooth,	
11.00	100	90	26	24			بارارارا أرارارا أرارارا المرارارا	tight, clean or thin calcitic mineral coating	
12.50	100	61	49	20				్డాడ్.	
13.20 13.30				Non-Ir	ntact			meril	
13.60	100	71	68	12			LILL BUT OF SET	Rapy of	
14.70	100	87	83	10	Çonsent of co	inspection bytight of	(10.00)	kany other use.	
16.20	100	93	93	6					
17.70	93	90	80	10					
19.20	100	100	69	9		39.32	20.00		
Remarks								Scale (approx)	Logged By
									·
								1:50	AM No
								Figure 05-2	No. 71.HR03

Glover Site Investigatio	ons Ltd Site FINGAL LANDFILL PROJECT	Borehole Number HR03
Machine: HANS ENGLAND Casing Diameter Flush: AIR-MIST 114mm cased to 10.00m	Ground Level (mOD) Client 59.32 FINGAL COUNTY COUNCIL	Job Number 05-271
Method : SYMMETRIX	Dates 10/05/2005 Engineer RPS-MCOS	Sheet 3/3
Depth (m) TCR SCR RQD FI Field Records	Level Depth (mOD) (m) Description (Thickness)	Vater Pueser
Depth TCR SCR RQD FI Field Records	The peth (Thickness) 39.12 20.20 Moderately strong thinly bedded sitty micritic LIMESTONE. Jointing bedding parallel, dipping 20 degrees. Complete at 20.20m Complete at 20.20m	Legend Water
Remarks	Scale (approx) 1:50 Figure N	Logged By AM

G	lo	ove	r Si	te li	nvestigati	ons	Lte	d	Site FINGAL L	ANDFILL	PROJE	СТ				Borehole Number HR03
Instal WAT	latic ER I	on Type MONITO	RING	Dimens Intern Diame	ions al Diameter of Tube [A] = 50 eter of Filter Zone = 114 mm	mm	<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>		Client FINGAL C	COUNTY	COUNC	IL		70		Job Number 05-271
			j	Location 31906	n 69.9 E 258662.5 N	1	Level (m 59.32	1	Engineer RPS-MCC	os						Sheet 1/1
Legend	Water	Instr (A)	Level (mOD)	Depth (m)	Description				G	roundwat	er Strik	es Durin	g Drilling	g		
			58.82	0.50	Concrete	Date	Time	Depth Struck (m)	Casing Depth (m)	Inflow	Rate		Read	lings		Depth
*								8.50	(m)	Seepage		5 min	10 min	15 min	20 min	Depth Sealed (m)
× × × × × × × × × × × × × × × × × × ×					Cement/Bentonite Grout					oundwate	er Obsei	rvations				1
* * * * * * *						Date		Depth	Start of S		Water			End of SI Casing		Water
	∇1					10/05/05		Depth Hole (m)	atterv		Water Level (mOD)	Time	Depth Hole (m) 20.20	Casing Depth (m)	Water Depth (m)	Water Level (mOD)
			49.92	9.40			on purpose	itell .								
		800 000 000 000 000 000 000 000 000 000			Gravel Filter	25 × ×			Instrument Groundwater Observations							
		00 00 00 00 00 00 00 00 00 00 00 00 00	47.97	11.35	₹	003	[A] Type Inst	trument	: [A]			· · · · · · · · · · · · · · · · · · ·			- ,,	
				ļ	Consento	Date	Time	Depth (m)					Rema	arks		
					Slotted Standpipe											
	9 OO B OUD, 6 6 9 A A B B OUD, 6 16 4 6 6 6 A B C B C B C B C B C B C B C B C B C B															
Remari	(S	1000 1000 000 000 000 000 000 000 000 0	39.12	20.20						· · · · · · · · · · · · · · · · · · ·						

Geotextile sock fitted around filter. Upright cover fitted. End cap at base of standpipe.

Glo	ver Sit	e Ir	ive	stigatio	ns	Ltd	Site FINGAL LANDFILL PROJECT		Borehole Number HR04
Boring Meth			Diameter	r ed to 31.50m	1	Level (mOD) 72.47	Client FINGAL COUNTY COUNCIL		Job Number 05-271
		Locatio 31		258737.7 N	Dates 12 16	/05/2005- /05/2005	Engineer RPS-MCOS		Sheet 1/4
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description		Legend A
					72.32	0.15	TOPSOIL DRILLER'S DESCRIPTION: Light brown BOULDE	RCLAY	
						1.80	DRILLER'S DESCRIPTION: Dark BOULDER CLAY	Y	
					ilo Se x o	only of the desired to the desired the des	Kany dhet lise.		
				Cousein of c	OD HIGH	(8.20)			
			-	12/05/2005 16/05/2005					
Remarks Borehole term	inated at scheduled	depth.			62.47	10.00	(1	Scale (approx)	Logged By
vescriptions b No testing or s Standpipe inst Borehole colla	inated at scheduled pased on driller's log sampling required. talled to 29.00m. ipsed between 29.00	s.)m - 31 50)m.					1:50	TR
	- 100 DOMOGN 20.00							Figure No 05-271	

	Glo	ver Sit	e In	ve	stigatio	ns	Ltd	Site FINGAL LANDFILL PROJECT	Borehole Number HR04
Depth Sample / Tests Gaster (A) Water (A) Field Records (A) (A) (A) (A) (A) (A) (A) (A) (A) (A)						Ground			Job Number
DRILLER'S DESCRIPTION: Brown BOULDER CLAY Control of C					258737.7 N	Dates 1:	2/05/2005- 6/05/2005		
St. 47 E. 20.00 Denotes St. 47 E. 20.00 Denotes St. 47 E. 20.00	Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend Mater
	Remarks				Consent	inglight Spylider	18.00	Brown highly weathered fine grained MUDSTONE	FOR TOP TOP TOP TOP TOP TOP TOP TOP TOP TOP

Glo	ver Sit	e Ir	ives	stigatio	ns	Ltd	Site FINGAL LANDFILL PROJECT	Borehole Number HR04
Boring Met			Diameter	r ed to 31.50m		Level (mOD) 72.47	Client FINGAL COUNTY COUNCIL	Job Number 05-271
		Locatio 31		258737.7 N	Dates 12 16	2/05/2005- 6/05/2005	Engineer RPS-MCOS	Sheet 3/4
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend 5
				Consent	The Rection	Halifield Addition of the Company of	Dark grey fine to medium grained LIMESTONE interbedded with siltstone	
Remarks		-					Scale (approx)	Logged By
							1:50 Figure No	TR
								o. 1.HR04

Glo	ver Sit	e Ir	ıve	stigatio	ns	Ltd	Site FINGAL LANDFILL PROJECT	Borel Numb	ber
Boring Met SYMMETRI	hod X DRILLING		Diamete 4mm cas	er sed to 31.50m	Ground	Level (mOD) 72.47	Client FINGAL COUNTY COUNCIL	Job Numb 05-2	
		Locatio		258737.7 N	Dates	2/05/2005- 6/05/2005	Engineer RPS-MCOS	Sheet	
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
Remarks				16/05/2005	Strike	of the state of th	Complete at 31.50m States		
Remarks							Scale (approx)	Logge By	ed
							1:50 Figure N	TR	
								10. 71.HR04	

Installa			Si	te II	nvestigati	ons	Lte			ANDFILL PF	ROJECT	1011			HR04
WATE			ING		al Diameter of Tube [A] = 50 eter of Filter Zone = 114 mm	mm			Client FINGAL C	COUNTY CO	UNCIL				Job Number 05-271
				Location 31770	n 04.4 E 258737.7 N	Ground	Level (m 2.47	iOD)	Engineer RPS-MCC	os					Sheet 1/1
_egend	Water	nstr (A)	Level (mOD)	Depth (m)	Description				G	roundwater	Strikes Dur	ing Drillin	g		
	<u></u>		71.97	0.50	Concrete	Date	Time	Depth Struck (m)	Casing Depth (m)	Inflow R	ate		dings		Depti Seale (m)
								()			5 mii			20 min	(III)
									Gro Start of S	oundwater (Observation		Orilling ———End of S	L:f4	
						Date	Time	Depth Hole (m)			ater evel Time OD)	Depth		т~	Wate
					Cement/Bentonite Grout	12/05/05 16/05/05		9.00		3 .	1700	9.00	(m)	(m)	Wate Leve (mOD
							700°	ing to	2014 other i						
						eció'	on purper red	,		ıment Grour	ndwater Obs	servations			
						of Tines.	[A] Type	:							
					at.	5 001	Ins	trument	t [A]			_			
			53.47 53.27	19.00 19.20	Gravel Filter Consent	Date	Time	Depth (m)	Level (mOD)		-111	Rem	arks 		
	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0													
	1.60 (100 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			Slotted Standpipe										
	43.47 29.00 Gravel			Gravel Filter											
		2000 2000 2000 2000	40.97	31.50											

Geotextile sock fitted around filter. Upright cover fitted. End cap at base of standpipe.

					stigatio			Site FINGAL LANDFILL PROJECT	١	Borehole Number HR05
Machine : / Flush : / Core Dia : /	AIR-MIST	LAND		Diamete 4mm cas	er sed to 10.75m	1	Level (mOD) 74.30	Client FINGAL COUNTY COUNCIL	1	Job Number 05-271
Method : 5		О	Locatio 31		E 258500.4 N	Dates 12	1/05/2005- 2/05/2005	Engineer RPS-MCOS	S	Sheet 1/3
Depth (m)	TCR	SCR	RQD	FI	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Le	water bnege
					Consett of Consett of	71.30	(2.65)	DRILLER'S DESCRIPTION: Black BOULDER CLAY DRILLER'S DESCRIPTION: Black BOULDER CLAY Rathy of the tree of the control of the		
Remarks						64.30	10.00		ا ماد	henno
Borehole ter Descriptions Standpipe in	minated at based on o stalled to 2	scheduled drillers log 0.50m.	i depth. s. No san	npling or	testing required.			Sca (appr		ogged By
								Figu	ure No. 05-271.H	

Glo	over	Sit	e Ir	ıve	stigatio	ns	Ltd	Site FINGAL LANDFILL PROJECT	Borehole Number HR05
Machine : Flush : A	AIR-MIST	LAND		Diamete 4mm cas	er sed to 10.75m	1	Level (mOD 74.30	Client FINGAL COUNTY COUNCIL	Job Number 05-271
Method : S		O ORING	Location 31		E 258500.4 N		1/05/2005- 2/05/2005	Engineer RPS-MCOS	Sheet 2/3
Depth (m)	TCR	SCR	RQD	FI	Field Records	Level (mOD)	Depth (m) (Thickness	Description	Vater Puspen
							(0.75)	DRILLER'S DESCRIPTION: Black BOULDER CLAY	
10.75	29	6	0			63.55	10.75	Strong thinly laminated very dark grey MUDSTONE, mostly highly weathered to a firm clay very to extremely closely spaced fractures dipping 20 degrees, planar, smooth, either clean or filled with gravelly clay, intersecting with similar set dipping 60 degrees, medium spaced, non-intact recovery	∇_2
11.60	20	0	0		Moderate Flow(2) at 11.60m.				¥2
13.10	93	21	0			4	Little of the stat	any offer use.	
14.45	93	19	0	Non-Ir	tact Consent of Co	inspection of the property of	(9.25)		
15.90	100	30	0						
17.40	100	56	0						
19.00	93	50	13		11/05/2005	54.30	20.00		
Remarks	I							Scale (approx) 1:50 Figure N	Logged By AM Io.

Machins MAN S Prior And No. Casing Dismeter Priority cases 1 to 7.5 m Prior And No. Casing Dismeter Priority cases 1 to 7.5 m Prior And No. Casing Dismeter Priority cases 1 to 7.5 m Prior And No. Casing Dismeter Priority cases 1 to 7.5 m Prior And No. Casing Dismeter Priority cases 1 to 7.5 m Priority Casing Dismeter Priority cases Priority cases Priority cas	Glo	ver	Sit	e Ir	ive	stigatio	ns	Ltd	Site FINGAL LANDFILL PROJECT	Borei Numb	ber
Method Feynman Common	Flush : A	IR-MIST	LAND	1			Ground			Job Numb	ber
TOR SOR ROD FI Field Records 1/205/2006 Sold	Method : S	YMMETRI RILLING T 0.75m & C	ORING			258500.4 N	1	1/05/2005- 2/05/2005			
Non-Marci 1205/2005	Depth (m)			RQD	FI	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legen	Water
Remarks Control of the part	20.50				Non-Ir		53.80	F .	highly weathered to a firm clay very to extremely closely spaced fractures dipping 20 degrees, planar, smooth, either clean or filled with gravelly clay, intersecting with similar set dipping 60 degrees, medium spaced, non-intact recovery		
1:50 AM Figure No.									Complete at 20.50m		
Figure No.	Kemarks										
05-271.HR05									Figure	Vo.	

			r Si	te lı	nvestigati	ons	Lte	d	Site FINGAL L	ANDFILL	_ PROJE	СТ				Borehole Number HR05
Install WATI	atio ER M	n Type MONITOR	RING	Dimens Intern Diame	ions al Diameter of Tube [A] = 50 eter of Filter Zone = 114 mm	mm			Client FINGAL C	OUNTY	COUNC	IL		-		Job Number 05-271
				Location 31737	n 74.9 E 258500.4 N	Ground 7	Level (m	iOD)	Engineer RPS-MC0)S	•					Sheet 1/1
Legend	Water	Instr (A)	Level (mOD)	Depth (m)	Description			I	G	roundwa	iter Strik	es Durin	g Drilling)		
		· · · · · ·	73.80	0.50	Concrete	D-4-	T:	Depth	Casing				Read	lings		Depth
× × × × × × × × × × × × × × × × × × ×						Date	Time	8.50 11.60	Casing Depth (m)	Seepag	w Rate ge ate Flow	5 min	10 min	15 min	20 min	Depth Sealed (m)
									Gr	oundwat	er Obse	rvations	During D	rilling		<u> </u>
									Start of S	hift			E	nd of Sh	ift	
ו••••••••••••••••••••••••••••••••••••					Cement/Bentonite Grout	Date	Time	Depth Hole (m)	Casing Depth (m)	Water Depth (m)	Water Level (mOD)	Time	Depth Hole (m)	Casing Depth (m)	Water Depth (m)	Water Level (mOD)
						11/05/05 12/05/05	0800	19.00				1700	19.00 20.50	()	(,	
	∇1					×	on Purpos	Solve			oundwa	ter Obse	rvations			
						L. WIX										
* 9 77	⊽ 2		62.80 62.30	11.50 12.00	Gravel Filter	25	[A] Type Ins	: trument	[A]							
		Control of the contro	02.00	12.00	Gravel Filter	Date	Time	Depth (m)	Level (mOD)				Rema	ırks		
Remark	20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		53.80	20.50	Slotted Standpipe											
Geotex Upright	ctile t cov	ver fitted.	d around f standpipe.	ilter.												

Glo	ver Sit	e Ir	ive	stigatio	ns	Ltd	Site FINGAL LANDFILL PROJECT	Borehole Number HR06
Boring Met SYMMETRI	hod X DRILLING		Diamete 8mm cas	ed to 40.00m	1	Level (mOD) 45.53	Client FINGAL COUNTY COUNCIL	Job Number 05-271
	_	Locatio 31		258462.2 N	Dates 18	3/05/2005- 9/05/2005	Engineer RPS-MCOS	Sheet 1/4
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend Mater
				Slight Flow(1) at co. 5.00m.	41,93 The Resolution	3.00 (1.50) (2.90) (1.50) (1.50)	DRILLER'S DESCRIPTION: Dark brown gravelly SILT with cobbles (damp) DRILLER'S DESCRIPTION: Black gravelly sandy CLAY containing occasional smooth cobbles and boulders. Gravel is sub-rounded fine to medium	VELOCIO EL CAL
Remarks Descriptions No testing or	based on driller's log sampling required. stalled to 40.00m.	S.					Scale (approx)	Logged By
3orehole tern	ninated at scheduled	depth.					1:50 Figure I	TR
								71.HR06

Glo	ver Sit	e Ir	ıve	stigatio	ns	Ltd	Site FINGAL LANDFILL PROJECT	Borehole Number HR06
Boring Metl SYMMETRI			Diamete 8mm cas	sed to 40.00m	ì	Level (mOD) 45.53	Client FINGAL COUNTY COUNCIL	Job Number 05-271
		Locatio 31		258462.2 N	Dates 18 19	3/05/2005- 1/05/2005	Engineer RPS-MCOS	Sheet 2/4
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Kegend ke
Remarks				Slight Flow(2) at 11.60m.	z5.53	(10.00)	DRILLER'S DESCRIPTION: Brown gravelly sandy CLAY containing occasional smooth cobbles and boulders. Gravel is sub-rounded fine to medium Scale (approx) 1:50	\(\text{\text{\$\pi}\) \(\text{\text{\$\pi}\) \(\text{\text{\$\pi}\}\)) \(\text{\text{\$\pi}\}\) \(\text
							Figure N 05-27	o. 1.HR06

Glover Sit	e Ir	ive	stigatio	ns l	Ltd	Site FINGAL LANDFILL PROJECT	Borehole Number HR06
Boring Method SYMMETRIX DRILLING		Diamete 88mm cas	r ed to 40.00m	1	-evel (mOD) 5.53	Client FINGAL COUNTY COUNCIL	Job Number 05-271
	Locatio		258462.2 N	Dates 18/ 19/	05/2005- 05/2005	Engineer RPS-MCOS	Sheet 3/4
Depth (m) Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend to
			Moderate Flow(3) at 29.50m. 18/05/2005		(9.70)	DRILLER'S DESCRIPTION: Brown gravelly sandy CLAY containing occasional smooth cobbles and boulders. Grave is sub-rounded fine to medium If the same o	
Remarks	·					Scale (approx)	Logged By
						1:50 Figure	TR No. 71.HR06

1:50 TR Figure No.	Glo	over Sit	e Ir	ıve	stigatio	ns	Ltd	Site FINGAL LANDFILL PROJECT		Borehole Number HR06
Depth Sample Tests Great State Sta						Ground				Number
Remarks Image: Application of the company of the					258462.2 N	Dates	8/05/2005- 9/05/2005			
Remarks Scale (approx) by grant Figure No.	Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description		Legend kate
1:50 TR Figure No.	Remarks				Consent of C	the drift of the state of the s				
Figure No.										
05-271.HR06									Figure N	lo.

	ation R MC	Type ONITO	RING	Dimensi Intern Diame	ons al Diameter of Tube [A] = 5 eter of Filter Zone = 168 mi	60 mm m			Client FINGAL C	OUNTY	COUNCI	L				Job Numb 05-27
				Location	1 14.4 E 258462.2 N	Ground	-		Engineer			<u></u>			:	Sheet
	-				14.4 E 250402.2 N	4	5.53		RPS-MCC	os 						1
nd	Water	Instr (A)	(mOD)	Depth (m)	Description		,		Gi	roundwa	ater Strik	es Durin	g Drilling	1		
× ×			45.03	0.50	Concrete	Date	Time	Depth Struck	Casing Depth (m)	Inflo	w Rate		Reac	lings		De Se
<u>기</u>								5.00 11.60	(m)		Flow Flow ate Flow	5 min	10 min	15 min	20 min	(
× /× /× /× /× /× /× /× /× /× /× /× /× /×	⊻ 1							29.50		Modera Modera	ate Flow ate Flow					
									Gro	oundwat	ter Obse	rvations	During D	rilling		<u></u>
									Start of SI	hift			E	nd of Sh	ift	
	⊽ 2					Date	Time	Depth Hole (m)	Casing Depth (m)	Water Depth (m)	Water Level (mOD)	Time	Depth Hole (m)	Casing Depth (m)	Water Depth (m)	W. Le (m
5				i		18/05/05 19/05/05	0800	29.70		د.		1700	29.70 40.00			
					Cement/Bentonite Grout		, 190°	isted to	any other is	ř						
2						ne etil	on Pulled	\		ıment Gı	roundwa	ter Obse	rvations			
<u> </u>						1062	[A] Type		[A]							
<u> </u>					Conser	Date	Time	Depth					Rema	ırks		
)								()	(IIIOD)							
2																
	Z3 Z4		15.08 14.38	30.45 31.15	Gravel Filter											
	00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	10000000000000000000000000000000000000	14.50	31.13												
	2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	100 100 100 100 100 100 100 100 100 100			Slotted Standpipe											
	(C 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	10 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 -														
		4 60 80 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	5.53	40.00												

Glo	over	Sit	e Ir	ıve	stigatio	ns	Ltd	Site FINGAL LANDFILL PROJECT	Borehole Number HR07
Machine : A Flush : A Core Dia: 7	AIR/MIST		_	Diamete 8mm cas	er sed to 5.50m	1	Level (mOD) 35.38	Client FINGAL COUNTY COUNCIL	Job Number 05-271
Method : S		X &	Location 31		258202.2 N	Dates 16	/05/2005	Engineer RPS-MCOS	Sheet 1/2
Depth (m)	TCR	SCR	RQD	FI	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend X
5.50 5.70 6.00 6.15 6.20 7.20 7.50	100 100 100 0	0 0 80	0 0 80	Non-Ir Non-Ir	tact	inspection	(0.90) 1.10	DRILLER'S DESCRIPTION: Grey BOULDER CLAY DRILLER'S DESCRIPTION: Grey silty CLAY DRILLER'S DESCRIPTION: Weak dark grey fine grained micritic LIMESTONE. Highly fractured The property of the control of	x
Remarks Difficult to co	ore due to e	xtremely v	weathered	and frac	ctured limestone.	25.38	10.00	Scale (approx	Logged By
Descriptions No testing or Standpipe in	based on or r sampling r stalled to 1	Iriller's log equired. 4.00m.	js.		ctured limestone.			1:50	AM
	лингід t 0 5.5	oum. Kota	ary Coring	ιο 7.50 n	n. Symmetrix Drilling	to 14.00m.		Figure	No. 271.HR07

Glo	ver	Sit	e Ir	ive	stigatio	ns	Ltd	Site FINGAL LANDFILL PROJECT	Borehole Number HR07
Machine : A Flush : A Core Dia : 7	AIR/MIST	*		Diamete 8mm cas	er sed to 5.50m	Ground	Level (mOD) 35.38	Client FINGAL COUNTY COUNCIL	Job Number 05-271
Method : S		X &	Locatio 31		58202.2 N	Dates 16	6/05/2005	Engineer RPS-MCOS	Sheet 2/2
Depth (m)	TCR	SCR	RQD	FI	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Vater Pueber
Remarks					Consent	21.38	(4.00)	DRILLER'S DESCRIPTION: Weak dark grey fine grained micritic LIMESTONE. Highly fractured Complete at 14.00m Scale (approx)	Logged
								1:50	АМ
								Figure N	No. 71.HR07

				r Si		nvestigati	ons	d	Site FINGAL L	ANDFILI	_ PROJE	СТ				Borehole Number HR07	
Installa WATE				ING	Dimensi Intern Diame	i ons al Diameter of Tube [A] = 50 r eter of Filter Zone = 168 mm	mm			Client FINGAL. C	COUNTY	COUNC	L				Job Number 05-271
					Location 31862	n 29 E 258202.2 N	1	Level (m 35.38	nOD)	Engineer RPS-MCC	os		-				Sheet 1/1
Legend	Water	Ins (A	str ()	Level (mOD)	Depth (m)	Description		••		G	roundwa	ater Strik	es Durin	g Drillin	9	I	
				34.88	0.50	Concrete	Date	Time	Depth Struck (m)	Casing Depth (m)	Inflo	w Rate			lings		Depth Sealed (m)
						Cement/Bentonite Grout			(m)	(m)			5 min	10 min	15 min	20 min	(m)
×										Gr	oundwat	ter Obse	rvations	During E	Prilling		
										Start of S	hift				End of St	nift	
							Date	Time	Depti Hole (m)	h Casing Depth (m)	Water Depth (m)	Water Level (mOD)	Time	Depth Hole (m)	Casing Depth (m)	Water Depth (m)	Water Level (mOD)
		0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	30.38	5.00 5.50	Gravel Filter			soily.	any other w	S.						
	00 00 000 000 000 000 000 000 000 000							on Parties	itied							L	
	000		8 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6				105/17	<u>~</u>		Instru	ıment Gı	roundwa	ter Obse	rvations			
	0000000					<	of Inst.	[A] Type	:								
	200 00 00 00 00 00 00 00 00 00 00 00 00		20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			Consento	Date	Ins	Depth					Rema	arks		:
	ე ამ გამერებილებე ამ დამერებილებები გამერებილებები გამერებილებები გამერებილებები გამერებილებები გამერებილებები გამერებილებ — 2000 გამერებილებებილები და მიმერებილებილებილებილებილებილებილებილებილებილ	_2/2 / 2 miles /	્ર કેટલે કેટલે માટે કરવા કેટલે કેટલે કેટલે કેટલે કેટલે કેટલે કેટલે કેટલે કેટલે કેટલે કેટલે કેટલે કેટલે કેટલે ક કેટલે કેટલે કેટલે કેટલે			Slotted Standpipe											
Remark		0.000 0.000	350 v 1/250 v 2/250 v	21.38	14.00												
Upright	cove	er fit	tted.	l around fi tandpipe.	mer.												

			e Ir	ıve	stigatio	ns	Ltd	Site FINGAL LANDFILL PROJECT		Borehole Number HR08
Machine : Flush : Core Dia:	AIR/MIST	SLAND		Diameto 4mm ca	er sed to 5.00m	i	Level (mOD) 39.19	Client FINGAL COUNTY COUNCIL		Job Number 05-271
	SYMMETRI DRILLING ⁻ & CORING 1 5 .40m	TO 5.00m	Locatio 31		257529.2 N	Dates 17. 18.	/05/2005- /05/2005	Engineer RPS-MCOS		Sheet 1/2
Depth (m)	TCR	SCR	RQD	FI	Field Records	Level (mOD)	Depth (m) (Thickness)	Description		Mater Mater
						38.99 37.99	(1.00)	TOPSOIL DRILLER'S DESCRIPTION: Light brown CLAY DRILLER'S DESCRIPTION: Dark BOULDER CLAY	,	
							(3.80)	rany other use.		
5.00	100	27	0		Moderate Flow(1) of at 5.00m.	HEROTO ON 194.19	5.00	Moderately strong massive dark grey micritic LIMES Highly fractured, non-intact recovery	TONE.	O
6.10	100	32	8							
7.40	87	29	29		17/05/2005:5.00m 18/05/2005:1.40m		(5.00)			
8.90	100	33	33			29.19	10.00		SCALE approx) 1:50 Figure No.	
Remarks Borehole en Standpipe in No testing o	ded at sche stalled to 1 r sampling i	eduled dep 5.40m. required.	th.					(a	Scale approx)	Logged By
Description (Packer test	of overburd carried out	en based at 8.50m a	on driller's nd 13.00r	s logs. m.				<u> </u>	Figure N	AM o. 1.HR08

Glo	Casing Diameter					ns	Ltd	Site FINGAL LANDFILL PROJECT	Borehole Number HR08
	IR/MIST	LAND	ł				Level (mOD) 39.19	Client FINGAL COUNTY COUNCIL	Job Number 05-271
Method : S	YMMETRI PRILLING T CORING	O 5.00m			57529.2 N	Dates 17 18	7/05/2005- 8/05/2005	Engineer RPS-MCOS	Sheet 2/2
Depth (m)		SCR	RQD	FI	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Pegend Water
10.40	100	29	12	Non-Ir	itact			Moderately strong massive dark grey micritic LIMESTONE. Highly fractured, non-intact recovery	
11.50	75	0	0					11.50m - 12.50m - clay rock gouge	
12.50	80	0	0				(5.40)		
14.00	57	0	0		ÇĠ	inspection	Life of the second of the seco		
15.40					18/05/2005 10 ⁴			Complete at 15.40m	
							=		
Remarks								Scale (approx)	Logged By
								1:50 Figure No 05-271	

G	lo	ve	r Si	te lı	nvestigati	ons	d	Site FINGAL L	ANDFILL	L PROJE	СТ				Borehole Number HR08	
Installa WATE		Type ONITOF	RING	Dimensi Intern Diame	ons al Diameter of Tube [A] = 50 reter of Filter Zone = 114 mm	mm			Client FINGAL C	COUNTY	COUNC	L				Job Number 05-271
				Location 31854	n 15 E 257529.2 N	Ground 3	Level (m 9.19	iOD)	Engineer RPS-MCC	os						Sheet 1/1
Legend	Water	Instr (A)	Level (mOD)	Depth (m)	Description				G	roundwa	ater Strik	es Durin	g Drilling	9		
	<i>i</i>		38.69	0.50	Concrete	Date	Time	Depth Struck	Casing Depth (m)	Inflo	w Rate		Read	lings		Depth Sealed (m)
					Cement/Bentonite Grout			(m) 5.00	(m)		ate Flow	5 min	10 min	15 min	20 min	(m)
									Gre	oundwat	ter Obse	rvations	During E	rilling	L	
			•						Start of S	hift				End of Sh	nift	
						Date	Time	Depti Hole (m)	Casing Depth (m)	Water Depth (m)	Water Level (mOD)	Time	Depth Hole (m)	Casing Depth (m)	Water Depth (m)	Water Level (mOD)
	$ abla_1$					17/05/05 18/05/05	0800	7.40		1.40	37.79	1700 1700	7.40 15.40		5.00	34.19
	2000 00 00 00 00 00 00 00 00 00 00 00 00	0,000 0,000	33.69	6.40	Gravel Filter		Č	softy.	any other i							
	16 00 6 0 0 9 0 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	100 000 000 000 000 000 000 000 000 000				. OSPecial	on Pitter			ıment Gı	roundwa	ter Obse	rvations			1
	0 5000 000 000 000 000 000 000 000 000				₹	of I high.	A] Type	: trument	- ΓΔ1							
	0 2020 E 00 00 0 0 20 00 00 00 00 00 00 00 00 00	2000 000 000 000 000 000 000 000 000 00			Consento	Date	Time	Depth (m)	$\overline{+}$				Rema	arks		
	STORE OF THE STORE		23.79	15.40	Slotted Standpipe											
Upright	ile so cove	er fitted.	d around fi	Iter.												

Glo	ver Sit	e Ir	ive	stigatio	ns	Ltd	Site FINGAL LANDFILL PROJECT		Borehole Number HR09
Boring Metl SYMMETRIX 29.00m	hod X DRILLING TO		Diamete 4mm cas	r ed to 29.00m	Ground	Level (mOD) 37.52	Client FINGAL COUNTY COUNCIL		Job Number 05-271
		Locatio 31		57097.6 N	Dates 25	5/05/2005	Engineer RPS-MCOS		Sheet 1/3
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description		Legend Mater
Standpipe ins	ninated at scheduled	depth.		Slight Flow(1) at \$65.00m.	37.22 36.72 33.82 33.82 33.02 29.02	(0.50) 0.80	DRILLER'S DESCRIPTION: Light brown CLAY DRILLER'S DESCRIPTION: Dark brown gravelly search of the company of th	slightly	Logged By
No testing or	sampling required. of overburden based	on driller	's logs.					1:50 Figure N	TR

Glo	ver Sit	e Ir	ive	stigatio	ns	Ltd	Site FINGAL LANDFILL PROJECT	Borehole Number HR09
Boring Metal SYMMETRIX 29.00m	nod X DRILLING TO	1	Diamete 4mm cas	r ed to 29.00m	1	Level (mOD) 37.52	Client FINGAL COUNTY COUNCIL	Job Number 05-271
		Locatio 31		57097.6 N	Dates 25	5/05/2005	Engineer RPS-MCOS	Sheet 2/3
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Vater Water
Remarks				Consent	itegection itegection springly of	(10.00)	DRILLER'S DESCRIPTION: Slightly sandy GRAVEL with cobbles Scale (approx. 1:50	0.50
							Figure	

Glo	ver Sit	e Ir	ives	stigatio	ns	Ltd	Site FINGAL LANDFILL PROJECT	Borehole Number HR09
Boring Met SYMMETRI 29.00m	hod X DRILLING TO	1	Diameter 4mm case	r ed to 29.00m	Ground	Level (mOD) 37.52	Client FINGAL COUNTY COUNCIL	Job Number 05-271
		Locatio		57097.6 N	Dates 25	5/05/2005	Engineer RPS-MCOS	Sheet 3/3
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend Mater
				Consent	ingerion of 12.32		DRILLER'S DESCRIPTION: Grey CLAY with coarse gravel sized fragments of limestone and siltstone DRILLER'S DESCRIPTION: GRAVEL with traces of dark grey siltstone/limestone Complete at 29.00m	
Remarks							Scale (approx)	Logged By
							1:50	TR
							Figure 1 05-2	No. 71.HR09

			r Si		nvestigati	ons	Lto	d	Site FINGAL L	_ANDFILI	L PROJE	:CT			1	Borehole Number HR09
		n Type MONITOF	RING	Dimensi Intern Diame	ions nal Diameter of Tube [A] = 50 i eter of Filter Zone = 114 mm	mm			Client FINGAL C	COUNTY	COUNC	IL				Job Number 05-271
				Location 31839	n 95 E 257097.6 N		I Level (m 37.52	nOD)	Engineer RPS-MCC	os					•	Sheet 1/1
Legend	Water	Instr (A)	Level (mOD)	Depth (m)	Description	1			G		ater Strik	kes Durin	ng Drillin	g		
/ <u>////</u>			37.02		Concrete	Dete	T_:	Depth Struck	Casing	161-			Read	dings		Depth
						Date	Time	5.00	n Casing k Depth (m)	Slight F	Flow	5 min	10 min	15 min	20 min	Depth Sealed (m)
0 0 0	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\															
									Gr	oundwat	ter Obse	rvations	During [)rilling		
	11111111				Cement/Bentonite Grout				Start of S					End of Sh	hift	
, , , , , , ,						Date	Time	Depth Hole (m)	h Casing Depth (m)	Water Depth (m)	Water Level (mOD)	Time	Depth Hole (m)	Casing Depth (m)	Water Depth (m)	Water Level (mOD)
· · · · · · · · · · · · · · · · · · ·				i				29.	i kry otler	e.						
				ı			ton Purpos	es off of								
0. 0 × 0. × 0. ×	7/0 0 tope		23.52	14.00	Gravel Filter	:13572	-04, —		Instru	ument Gr	roundwa	ater Obse	rvations			
.,.∪×.∘ o.,o.×. .,.o.×.	Se o Boase	000 000 000 000 000 000 000 000 000 00	22.52	15.00	1	of Inst.	[A] Type									
, 0 × 0 0 × 0 0 × 0 0 × 0	10° 0 0 0000 0	20 40 50 50 50 50 50 50 50 50 50 50 50 50 50			Consent	Date	Inst	strument		Ė			Rema	arks		
, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,	20°C 0 0 40 50 4				Çü,		Time	Depth (m)	Level (mOD)	<u> </u>						
					Slotted Standpipe											
, o.x.	2 0 Bang Boots									I						
		13.52 13.32	24.00 24.20	Gravel Filter												
× × ×					Bentonite Seal											
×. ×.			8.52	29.00	I											
Remark	KS															

Geotextile sock fitted around filter. Upright cover fitted. End cap at base of standpipe.

Glo	over Sit	e Ir	ive	stigatio	ons	Ltd	Site FINGAL LANDFILL PROJECT	Borehole Number HR10
Boring Met SYMMETRI 25.50m	thod IX DRILLING TO		Diamete 4mm cas	er sed to 25.50m		Level (mOD) 35.19	Client FINGAL COUNTY COUNCIL	Job Number 05-271
		Locatio 31		256927.7 N	Dates 18 19	1/05/2005- 1/05/2005	Engineer RPS-MCOS	Sheet 1/3
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend to S
Remarks				Seepage(1) at 5.00m. 18/05/2005 19/05/2005 COMB	33.99	(8.80)	DRILLER'S DESCRIPTION: Light brown to yellowish brown sandy gravelly CLAY. Gravel is sub-rounded fine to medium DRILLER'S DESCRIPTION: Dark brown to dark grey CLAY with gravel (Boulder Clay) That description is sub-rounded fine to medium.	
Remarks Borehole terr Descriptions No testing or	minated at scheduled of overburden based sampling required. stalled to 25.50m.	l depth. I on driller	's logs.				Scale (approx)	Logged By
Standpipe in:	stalled to 25.50m.						1:50	TR
							-	vo. 71.HR10

Glo	ver Sit	e Ir	ive	stigatio	ns	Ltd	Site FINGAL LANDFILL PROJECT	Borehole Number HR10
Boring Met SYMMETRI 25.50m	hod X DRILLING TO		Diamete 4mm cas	ed to 25.50m	1	- evel (mOD) 5.19	Client FINGAL COUNTY COUNCIL	Job Number 05-271
		Locatio 31		256927.7 N	Dates 18/ 19/	05/2005- 05/2005	Engineer RPS-MCOS	Sheet 2/3
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Kater Mater
						(2.00)	DRILLER'S DESCRIPTION: Dark brown to dark grey CLAY with gravel (Boulder Clay)	
					23.19	12.00	Dark grey fine grained SILTSTONE with sandy clay (Possibly highly to completely weathered rockhead)	
				Consent of c	ingedict	(6.00)		
				Slight Flow(2) at 18.00m.	17.19	18.00	Dark grey fine grained LIMESTONE containing occasional thin layers of siltstone	$ \mathcal{V}_{2} $
					15.19	20.00		
Remarks							Scale (approx)	Logged By
							1:50 Figure No 05-27	TR o. 1.HR10

Glo	ver Sit	e Ir	ıve	stigatio	ns	Ltd	Site FINGAL LANDFILL PROJECT	Borehole Number HR10
Boring Metl SYMMETRI 25.50m	hod X DRILLING TO		Diamete 4mm cas	r sed to 25.50m	Ground	I Level (mOD) 35.19	Client FINGAL COUNTY COUNCIL	Job Number 05-271
		Locatio 31		256927.7 N	Dates	8/05/2005- 9/05/2005	Engineer RPS-MCOS	Sheet 3/3
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Fedeuq rate
Remarks				19/05/2005 care of C	9.69		Dark grey fine grained LIMESTONE containing occasional thin layers of siltstone Complete at 25.50m Scale (approx)	Logged
							1:50 Figure	TR No. 71.HR10

				r Si	te lı	nvestigati	ons	Lte	d	Site FINGAL L	ANDFILI	- PROJE	СТ		7/2-1		Borehole Number HR10
Install WAT				RING	Dimens Intern Diame	ions al Diameter of Tube [A] = 50 eter of Filter Zone = 114 mm	mm			Client FINGAL C	COUNTY	COUNC	IL				Job Number 05-271
					Location 31877	n 77.3 E 256927.7 N	Ground 3	Level (m 35.19	nOD)	Engineer RPS-MCC	os						Sheet 1/1
Legend	Water	In	str A)	Level (mOD)	Depth (m)	Description			L	G	roundwa	ter Strik	es Durin	ıg Drilling	9		
		177	111	34.89	0.30	Concrete			Depth Struck	Casing			Ţ	Read	lings	- 	Depth
×.							Date	Time	Struck (m)	Casing Depth (m)		w Rate	5 min	10 min	15 min	20 min	Depth Sealed (m)
									5.00		Seepag Slight F	ge Flow					
	∇1					Groundwater Observations During Drilling Start of Shift End of Shift Date Double Coming Wester Wes										<u></u>	<u></u>
							Date		1							r	
							Date	Time	Depth Hole (m)	Casing Depth (m)	Water Depth (m)	Water Level (mOD)	Time	Depth Hole (m)	Casing Depth (m)	Water Depth (m)	Water Level (mOD)
						Cement/Bentonite Grout	18/05/05 19/05/05	0800	5.00				1700	5.00 25.50			
					İ			on Purpo	isedfu	any other w	3						
* * * * * * * * * * * * * * * * * * *							inst.	on Paried Swiner red [A] Type	:	Instru	ıment Gr	oundwa	ter Obse	rvations			~
X X X X X X X X X X X X X X X X X X X						ent	OB,		trument	t [A]				_			
X X X X X X X X X X X X X X X X X X X				18.69	16.50	Consent	Date	Time	Depth (m)	Level (mOD)				Rema	arks		
<pre></pre>	0.000			18.19	17.00	Gravel Filter											
****** ****** ****** ****** ****** ****	V2	20,000,000,000,000,000,000,000,000,000,	్ సర్స్ సింగ్ల్లో కైస్త్ లక్స్ సర్స్ట్ ట్రాన్స్ట్ ట్రాన్స్ట్ ట్రాన్స్ట్ ట్రాన్స్ట్ ట్రాన్స్ట్ ట్రాన్స్ట్ ట్రాన్ స్టాన్స్ట్ ట్రిస్తుల్లో కోస్ట్ ట్రిస్ట్ ట్రిస్ట్ ట్రిస్ట్ ట్రాన్స్ట్ ట్రిస్ట్ స్ట్రాన్స్ట్ ట్రిస్ట్ స్ట్రాన్స్ కోమ్మన్ కోట్లు కోట్లు కోట్లు కోట్లు కోట్లు కోట్లు కోట్లు కోట్లు కోట్లు కోట్లు కోట్లు కోట్లు కోట్లు కోట్లు కోట														
	ි. ඉද විසිරිම සිරි මික අය පිරිසුරිස් මිරිම් _{කිරීම} ප්රජ් <u>ය ලදා සිරි</u> මේ මර්ණ	\$\frac{1}{2}\text{2}\t	ે પાસ્ત્રીઓ માર્કુટ હતું. જાઈ આપણ ભારત કર્યું કરતું. લાકુસ્તા ભારત કર્યું કરતું ભારત કરતું કરતું કરતું કરતું ક કે પાસ્ત્રી વાર્દાના જ કર્યું કરતું કરતું કરતું કરતું કરતું કરતું કરતું કરતું કે પાસ્ત્રી કરતું કરતું કરતું કે કે પાસ્ત્રી કે પાસ્ત્રી કે પાસ્ત્રી કે પાસ્ત્રી કે પાસ્ત્રી કે પાસ્ત્રી કે પાસ્ત્રી કે પાસ્ત્રી કે પાસ્ત્રી ક	9,69	25.50	Slotted Standpipe											
Upright	tile s	er f	itted.	around fi	1					1				-			

Glo	over	Sit	e Ir	ıve	stigatio	ns l	_td	Site FINGAL LANDFILL PROJECT	Borehole Number HR11A
Machine : / Flush : / Core Dia : /	AIR/MIST	LAND		Diamete 4mm ca	er sed to 15.50m	F	evel (mOD) 7.79	Client FINGAL COUNTY COUNCIL	Job Number 05-271
Method : S			Location 31		E 256516 N	Dates 20/0 23/0	05/2005- 05/2005	Engineer RPS-MCOS	Sheet 1/3
Depth (m)	TCR	SCR	RQD	FI	Field Records	Level (mOD)	Depth (m) Thickness)	Description	Legend
					Consent of Consent of	27.59 25.79 21.79 21.79 21.79	0.20 - - - - - - - - - - - - - - - - - - -	TOPSOIL DRILLER'S DESCRIPTION: Brown sandy very gravelly CLAY containing smooth sub-rounded cobbles and boulders. Gravel is sub-rounded fine to medium DRILLER'S DESCRIPTION: Brown slightly sandy gravelly CLAY	▼
						17.79			
Remarks Descriptions No testing or Standpipe in	of overburd	den based equired w	l on driller	r's logs. burden.		· ·	<u></u>	Scale (approx)	Logged By
Standpipe in Symmetrix D Borehole ter	rilling to 14.	./UM. Ro	tarv Corir	g to 20.0	00m Open holed to 2	6.00m.		1:50	TR
								Figure N 05-27	lo. 1.HR11A

			e Ir	ıve	stigatio	ns	Ltd	Site FINGAL LANDFILL PROJECT	Borehole Number HR11A
Machine : A	AIR/MIST	BLAND		Diamete 4mm ca	er sed to 15.50m		Level (mOD) 27.79	Client FINGAL COUNTY COUNCIL	Job Number 05-271
Method : S			Location 31		E 256516 N	Dates 20 23	/05/2005~ /05/2005	Engineer RPS-MCOS	Sheet 2/3
Depth (m)	TCR SCR	RQD	FI	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Vater V	
						13.39	(4.40)	DRILLER'S DESCRIPTION: Sandy GRAVEL with occasional cobbles or medium boulders Moderately strong thinly laminated grey highly weathered migritio LIMESTONE with bonds of weak black villaters.	
14.70	19	19	14		Moderate Flow(2) at 14.50m. 20/05/2005 23/05/2005 ÇC	inspection opytish of		Moderately strong thinly laminated grey highly weathered micritic LIMESTONE with bands of weak black siltstone. Highly fractured recovery as angular gravel (Borehole on suspected fault zone)	
16.10 17.50	0	0	0	Non-Ir	tact		(5.60)		
19.00	77	0	0					unstable below 17.50m - continually collapsing	
20.00	88	0	0			7.79	20.00		
Remarks								Scale (approx) Logged By
								1:50 Figure	TR No. 71.HR11A

Machine :					stigatio		~~	FINGAL LANDFILL PROJECT	Number HR11A
	AIR/MIST	LAND		Diamete 4mm cas	er sed to 15.50m		Level (mOD) 27.79	Client FINGAL COUNTY COUNCIL	Job Number 05-271
Method : \$		X & ORING	Location 31		E 256516 N	Dates 20 20)/05/2005- 3/05/2005	Engineer RPS-MCOS	Sheet 3/3
Depth (m)	TCR	SCR	RQD	FI	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend at a
Remarks					Cansen of 6 23/05/2005	1.79	(6.00)	Moderately strong thinly laminated grey highly weathered micritic LIMESTONE with bands of weak black siltstone. Highly fractured recovery as angular gravel (Borehole on suspected fault zone) Complete at 26.00m Scale (approx)	Logged
								1:50	TR
								Figure N 05-271	o. .HR11A

District District				r Si	te li	nvestigati	ons	Lte	d	Site FINGAL L	.ANDFILL	. PROJE	СТ				Borehole Number HR11A
Legan				RING			mm				COUNTY	COUNC	IL				Number
Variable Variable									OD)	_	os			,			
Date Time Springk Days Start of Shift Shif	Legend	Water	Instr (A)	Level (mOD)	Depth (m)	Description				G	roundwa	iter Strik	es Durin	g Drilling)		
	//////////////////////////////////////			27.29	0.50	Concrete	<u> </u>		Depth	Casing				Read	lings		Depth
14.50 Moderate Flow							Date	Time		(m)			5 min	10 min	15 min	20 mir	Sealed (m)
Cement/Bentonite Grout Date Date Date Date Date Date Date	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0								6.00		Slight F Modera	Flow te Flow					
Value			1							Gro	oundwat	er Obse	rvations	During D	rilling	<u> </u>	
Cement/Bentonite Grout Time Tim	, x o o o	∇1													nd of S	hift	
2005:05 0800 14.70 17700 26:00 14.70 Instrument Groundwater Observations Instrument Groundwater Observations Instrument [A] Remarks	O O X					Cement/Bentonite Grout	Date	Time	Depth Hole	Casing Depth	Water Depth	Water Level	Time	Depth Hole	Casing Depth	Wate Deptr	Water Level
Instrument Groundwater Observations 12.79						20/05/05 23/05/05	0800	14.70			(mOD)		(m) 14.70	(m)	(m)_	(mOD)	
12.79 15.00 12.49 15.30 Gravel Filter Slotted Standpipe Content of the content of th							go.	ited for	any other w								
12.79 15.00 15.30 Gravel Filter Slotted Standpipe Constitution Date Time Depth (m) Constitution Constituti	0 0 X						S CO	000	×		ıment Gr	oundwa	ter Obse	rvations			
12.79 15.30 Gravel Filter Slotted Standpipe Content of Slotted Slotted Slotted Slotted Slotted Slotted Slotted Slotted Slotted Slotted Slotted Slotted Slotted Slotted Slotted Slotted Slotted	o. o.x.						of Their	[A] Type	:								
10.29 17.50 Gravel Filter 1.79 26.00	, čô	∇_2		12.70	15.00	, c	. COS,	Inst	trument	[A]							
10.29 17.50 Gravel Filter 1.79 26.00			200 000 000 000 000 000 000 000 000 000	12.49	15.30	Gravel Filter Slotted Standpipe Collisent	Date	Time	Depth (m)	Level (mOD)				Rema	ırks		
1.79 26.00		OD COMPANY OF COMPANY		10.29													
		<u> </u>				Gravel Filter											
		099009		1.79	26.00												

Geotextile sock fitted around filter. Upright cover fitted. Borehole collapsed below 17.50m. End cap at base of standpipe.

Glo	ver Sit	e Inve	stigatio	ns L	td	Site FINGAL LANDFILL PROJECT	Borehole Number HR11B
Boring Metal SYMMETRI 13.00m	hod X DRILLING TO	Casing Diamete	er sed to 13.00m	Ground Lev 27.6		Client FINGAL COUNTY COUNCIL	Job Number 05-271
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Location 318355.6 E	E 256523.6 N	Dates 24/05/	2005	Engineer RPS-MCOS	Sheet 1/2
Depth (m)	Sample / Tests	Casing Water Depth (m) (m)	Field Records	Level (mOD)	Depth (m) ickness)	Description	Vater Puesen
			Slight Flow(1) at 2.50m. Moderate Flow(2) at 6.00m.	27.44 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	(2.30) (2.30) (1.50) (1.50) 5.00	DRILLER'S DESCRIPTION: Brown gravelly CLAY with occasional cobbles DRILLER'S DESCRIPTION: Brown gravelly CLAY with occasional cobbles DRILLER'S DESCRIPTION: Dark brown to black CLAY containing occasional gravels DRILLER'S DESCRIPTION: Sandy GRAVEL	▼ 1 × 1 × 1 × 1 × 1 × 1 × 1 × 1 × 1 × 1
Remarks				17.64	10.00		
Description of No testing or Standpipe ins	f overburden based o sampling required. stalled to 13.00m. ninated at scheduled	on driller's logs.				Scale (approx	
sorenole term	nnated at scheduled	depth.				1:50	TR No.
	· · · · · · · · · · · · · · · · · · ·					. -	71.HR11B

Glo	ver Sit	e Ir	ive	stigatio	ns	Ltd	Site FINGAL LANDFILL PROJECT		Borehole Number HR11B
Boring Met SYMMETRI 13.00m	hod X DRILLING TO		Diamete 4mm cas	ed to 13.00m	Ground	Level (mOD) 27.64	Client FINGAL COUNTY COUNCIL		Job Number 05-271
		Locatio 31		256523.6 N	Dates 24	4/05/2005	Engineer RPS-MCOS		Sheet 2/2
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description		Legend Mater
Remarks				24/05/2005		13.00)	Complete at 13.00m		
								Scale (approx)	Logged By
								1:50 Figure N	TR lo.
									1.HR11B

G	lc	ove	r Si	te Ir	nvestigati	ons	Lto	d	Site FINGAL L	ANDFILL	_ PROJE	СТ			!	Borehole Number HR11B
		n Type MONITOI	RING	Dimensi Interna Diame	ons al Diameter of Tube [A] = 50 i eter of Filter Zone = 114 mm	mm			Client FINGAL C	COUNTY	COUNC	IL				Job Number 05-271
				Location 31835) 5.6 E 256523.6 N		Level (m 27.64	· 1	Engineer RPS-MCC	os				***	:	Sheet 1/1
Legend	Water	Instr (A)	Level (mOD)	Depth (m)	Description				G	roundwa	iter Strik	es Durin	g Drilling		·	
///// * —: ;					Concrete	Date	Time	Depth Struck	Casing Depth (m)	Inflo	w Rate		Read			Depth Sealed (m)
× · · · · · · · · · · · · · · · · · · ·			27.14	0.50				2.50 6.00	(m)	Slight F Modera	Flow ate Flow	5 min	10 min	15 min	20 min	(m)
× · · · × · · · × · · · · · · · · · · ·	∇1										er Obse	rvations				
× × • • •					Cement/Bentonite Grout	Date		Depth	Start of S	-	Water		r	Casing		Water
						24/05/05	Time	Depth Hole (m)		Water Depth (m)	Water Level (mOD)	Time	Depth Hole (m) 13.00	Casing Depth (m)	Water Depth (m)	Water Level (mOD)
							a og	sonly.	any other v							
	∇2		21.14	6.50	Gravel Filter	aspecti ¹	on Purper	<u> </u>	Instru	ıment Gr	oundwa	ter Obse	rvations			
			20.64	7.00	<	of Timest.	[A] Type	:								
					atto	001	Inst	trument	[A]				Rema	vrko		
		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			Consento	Date	Time	Depth (m)	Level (mOD)				- Keille			
		00000000000000000000000000000000000000														
	000000000000000000000000000000000000000				Slotted Standpipe											
7	0 * 0 * 0 * 0 * 0 * 0 * 0															
	000000000000000000000000000000000000000	100 000 000 000 000 000 000 000 000 000														
	0000,4000000000000000000000000000000000	100 000 000 000 000 000 000 000 000 000														
	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		14.64	13.00												
Remar	ks															ľ

Geotextile sock fitted around filter. Upright cover fitted. End cap at base of standpipe.

Glo	ver Sit	e Ir	ive	stigatio	ns	Ltd	Site FINGAL LANDFILL PROJECT		Borehole Number HR12
8.50m OPEN HOLE	nod K DRILLING TO E DRILLING TO	16	Diamete 8mm cas 5mm cas	er sed to 8.50m sed to 16.00m	1	Level (mOD) 25.86	Client FINGAL COUNTY COUNCIL		Job Number 05-271
16.00m		Locatio 31		256233.2 N	Dates 13 14	3/05/2005- 4/05/2005	Engineer RPS-MCOS		Sheet 1/2
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description		Vater Water
				Slight Flow(1) at 2.50m. Strong Flow(2) at 7.00m.	25.66 23.36 22.76 21.46 21.46 30 11.86	2.50 (2.30) (2.30) (3.30) (4.30) (5.30) (6.60) (7.30) (7.30) (8.30) (8.30) (9.30) (1.30)	DRILLER'S DESCRIPTION: Brown sandy GRAVE DRILLER'S DESCRIPTION: Brown silty fine SAND DRILLER'S DESCRIPTION: Grey silty CLAY DRILLER'S DESCRIPTION: Grey silty CLAY Black fine to medium grained LIMESTONE containing mudstone layers. Highly fractured		x x x x x x x x x x x x x x x x x x x
Remarks					15.86	10.00			
Borehole term No testing or s Descriptions b	ninated at scheduled sampling required. pased on drillers logs talled to 16.00m.	depth.					(Scale (approx)	Logged By
Standpipe inst	talled to 16.00m.							1:50 Figure N	TR o.
					. <u> </u>			-	1.HR12

Glo	ver Sit	e Ir	ıve	stigatio	ns	Ltd	Site FINGAL LANDFILL PROJECT	Borehole Number HR12
8.50m	hod X DRILLING TO E DRILLING TO	16	Diamete 8mm cas 5mm cas	ed to 8.50m sed to 16.00m		Level (mOD) 25.86	Client FINGAL COUNTY COUNCIL	Job Number 05-271
16.00m		Location 31		256233.2 N	Dates 13 14	3/05/2005- 1/05/2005	Engineer RPS-MCOS	Sheet 2/2
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend Nater
				Consent of 2 14/05/2005	9.86	16.00	Black fine to medium grained LIMESTONE containing thin mudstone layers. Highly fractured	
Remarks			1				Scale (approx)	Logged By
							1:50	TR
							Figure N 05-27	io. '1.HR12

Installa	tion	Туре		Dimensi			LU		FINGAL L	ANDFILL PROJ	ECT				HR12
WAIE	R M	ONITOF	RING	Intern Diame	al Diameter of Tube [A] = 50 eter of Filter Zone = 125 mm	mm		ŀ		COUNTY COUN	CIL				Number 05-271
				Location 31831	n 11.3 E 256233.2 N	Ground 2	Level (m !5.86	iOD)	Engineer RPS-MCC	os	****				Sheet 1/1
.egend	Water	Instr (A)	Level (mOD)	Depth (m)	Description				G	roundwater Str	ikes Durir	ng Drilling	9		
			25.20	0.50	Concrete	Data	7:	Depth Struck	Casing	lugu pu		Read	lings		Depth
×	7///		25.36	0.50		Date	Time	(m)	Casing Depth (m)	Inflow Rate	5 min	10 min	15 min	20 min	Depth Sealed (m)
× × × × × × × × × × × × × × × × × × ×	Z 1							2.50 7.00		Slight Flow Strong Flow			,		
****					Cement/Bentonite Grout				Gre	oundwater Obs	ervations	During D	rilling		
									Start of S	hift		E	End of S	nift	
· · · · · · · · · · · · · · · · · · ·						Date	Time	Depth Hole (m)	Casing Depth (m)	Water Depth Level (m)	Time	Depth Hole	Casing Depth (m)	Water Depth (m)	Water Level (mOD)
		A	19.36	6.50	Gravel Filter	14/05/05			inert			(m) 16.00	(m)	(m)	(mOD)
	Z2::::::::::::::::::::::::::::::::::::	100 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	18.86	7.00	Oraver riller	2500	on Puried	ined it		ment Groundw	ater Obse	rvations			
	30 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0					25	[A] Type Ins	: trument	t [A]			<u>.</u>			
	0.0 10 10 10 10 10 10 10 10 10 10 10 10 10	2000 00 00 00 00 00 00 00 00 00 00 00 00			Consent	Date	Time	Depth (m)	Level (mOD)		••••	Rema	arks		
	STATES OF THE ST				Slotted Standpipe										
111	2000 2000 2000 2000 2000 2000		9.86	16.00											

Upright cover fitted.
Geotextile sock fitted around filter.
End cap at base of standpipe.

Glo	over Sit	e Ir	ives	stigatio	ns	Ltd	Site FINGAL LANDFILL PROJECT		Borehole Number HR13A
Boring Met SYMMETR 21.00m	thod IX DRILLING TO	1	Diameter 4mm cas	r ed to 21.00m		Level (mOD) 41.40	Client FINGAL COUNTY COUNCIL		Job Number 05-271
		Locatio 31		258239.2 N	Dates 10 13	0/06/2005- 8/06/2005	Engineer RPS-MCOS		Sheet 1/3
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description		Legend A
Remarks				Consent	instight o	(1.80)	DRILLER'S DESCRIPTION: Brown and grey CL		
Borehole terr Virtual refusa Standpipe ins	minated on Engineer' al met at 21.00m. stalled to 17.50m. sampling required. of overburden based							Scale (approx) 1:50 Figure N 05-271	Logged By TR o. I.HR13A

Glo	ver Sit	e Ir	ive	stigatio	ns	Ltd	Site FINGAL LANDFILL PROJECT	_	Borehole Number HR13A
Boring Met SYMMETRI 21.00m	hod X DRILLING TO		Diamete 4mm cas	er sed to 21.00m		Level (mOD) 41.40	Client FINGAL COUNTY COUNCIL		Job Number 05-271
		Locatio		258239.2 N	Dates 10 13	1/06/2005- 1/06/2005	Engineer RPS-MCOS		Sheet 2/3
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description		Legend Nater
				Slight Flow(1) at 10.20m.		(2.00)	DRILLER'S DESCRIPTION: Brown and grey CL/	ĄΥ	∇1
				Slight Flow(2) at 12.00m.	29.40	12.00	DRILLER'S DESCRIPTION: Brown gravelly silty BOULDER CLAY		
				10/06/2005	inspection	only Outdooking of Outdooking of Outdooking of (5.00)	i any other use.		
				13/06/2005:10.20m	R. T.				
				Moderate Flow(3) at 17.00m.	24.40	17.00	DRILLER'S DESCRIPTION: SAND and GRAVEL		∑ 3
						(3.00)			
Remarks					21.40	20.00		Scale (approx)	Logged By
								1:50 Figure No	TR

Glo	ver Sit	e Ir	ıve	stigatio	ns	Ltd	Site FINGAL LANDFILL PROJECT		Borehole Number HR13	
Boring Met SYMMETRI 21.00m	hod X DRILLING TO	1	Diamete 4mm cas	er sed to 21.00m		I Level (mOD) 41.40	Client FINGAL COUNTY COUNCIL		Job Number 05-271	_
		Locatio		258239.2 N	Dates	0/06/2005- 3/06/2005	Engineer RPS-MCOS		Sheet 3/3	-
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description		Legend &	Walei
				13/06/2005 Consent of		21.00	Complete at 21.00m	EL.		<u>=</u>
Remarks								Scale (approx)	Logged By	_
								1:50	TR	
								Figure N 05-271	lo. 1.HR13A	

G			r Si	te li	nvestigati	ons	Lte	d	Site FINGAL L	.ANDFILI	L PROJE	.ст			1	Borehole Number HR13A
		MONITOR	RING		ial Diameter of Tube [A] = 50 i eter of Filter Zone = 114 mm	mm			Client FINGAL C	COUNTY	COUNC	IL				Job Number 05-271
				Location 31827	n 71.1 E 258239.2 N	Ground 4	Level (m		Engineer RPS-MCC	os						Sheet 1/1
.egend	Water	Instr (A)	Level (mOD)	Depth (m)	Description				G	roundwa	ater Strik	es Durin	g Drilling	g		
			40.90	0.50	Concrete	Date	Time	Depth Struck (m)	Casing Depth (m)	Inflo	w Rate	5 min	Read		20 min	Depth Sealed (m)
			<u> </u>					10.20 12.00 17.00		Slight I Slight I Modera	Flow Flow ate Flow					
							_									
\equiv									Gre	oundwa	ter Obse	rvations	During D	rilling)		
\equiv						Deta		т	Start of SI				E	End of Sh		
\equiv						Date	Time	Depth Hole (m)	Casing Depth (m)	Water Depth (m)	Water Level (mOD)	Time	Depth Hole (m)	Casing Depth (m)	Water Depth (m)	Water Level (mOD)
					Cement/Bentonite Grout	10/06/05 13/06/05	0800	15.00		10.20	31.20	1700	15.00 21.00			
							DOG	Solfo	any other w	,						
	∇1					:05PM	on Purpersed	×		ıment Gı	roundwa	ter Obse	rvations			
	72				\ \ \ \ \	8	[A] Type Inst	: trument	[A]							
. O	*~		į	į	Consento	Date	Time	Depth (m)	Level (mOD)				Rema	arks		
	7//// 600 60		26.20 26.00	15.20 15.40	Gravel Filter											
	0000 0000 000	2000 1 20			Slotted Standpipe											
2 0	Z3		24.00	17.40												
9					Bentonite Seal											
			20.40	21.00												
Upriaht	tile s	er fitted.	d around fi	lter.			1,					-				,

Glo	ver Sit	e Ir	ives	stigatio	ns	Ltd	Site FINGAL LANDFILL PROJECT	Boreho Numbe HR13
17.00m	hod E DRILLING TO X DRILLING TO	11	4mm case	r ed to 17.00m ed to 23.50m ed to 33.80m	}	Level (mOD) 41.52	Client FINGAL COUNTY COUNCIL	Job Numbe 05-27
l 23.50m	E DRILLING	Locatio 31		258239.3 N	Dates 27 28	7/06/2005- 1/06/2005	Engineer RPS-MCOS	Sheet 1/4
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend
				Consent of C	41.32 inspection inspection or vitable of	(9.80)	TOPSOIL DRILLER'S DESCRIPTION: Grey and brown BOULDER CLAY with occasional cobbles and boulders Topsoil Top	
Remarks Descriptions Standpipe in	of overburden based	d on driller	s logs.				Sc: (appr	ale Logged rox) By
No testing or Borehole teri	sampling required. minated at scheduled	d depth.					1:5	
								ure No. 5-271.HRBB

Glo	ver Sit	e Ir	ive	stigatio	ns	Ltd	Site FINGAL LANDFILL PROJECT	Borehole Number HR13E
17.00m	hod E DRILLING TO X DRILLING TO	11	4mm cas	r ed to 17.00m ed to 23.50m ed to 33.80m		Level (mOD) 41.52	Client FINGAL COUNTY COUNCIL	Job Number 05-271
23.50m OPEN HOLE 33.80m		Locatio 31		258239.3 N	Dates 27 28	7/06/2005- 8/06/2005	Engineer RPS-MCOS	Sheet 2/4
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend
		(m)	(m)	Slight Flow(1) at 10.20m. \$\frac{\partial \text{Flow}(1)}{27/06/2005}\$ 28/06/2005		The state of the s	DRILLER'S DESCRIPTION: Grey and brown BOULDER CLAY with occasional cobbles and boulders	
Remarks		l I	I				Sca (appr	ale Logged ox) By
							1:5	
							· -	ure No. 5-271.HRBB

Glo	ver Sit	e Ir	ive	stigatio	ns	Ltd	Site FINGAL LANDFILL PROJECT	Borehole Number HR13B
17.00m	hod E DRILLING TO X DRILLING TO	Casing 16 11 10	Diamete 5mm cas 4mm cas 0mm cas	r ed to 17.00m ed to 23.50m ed to 33.80m		Level (mOD) 41.52	Client FINGAL COUNTY COUNCIL	Job Number 05-271
23.50m	E DRILLING	Locatio 31		258239.3 N	Dates 27 28	7/06/2005- 3/06/2005	Engineer RPS-MCOS	Sheet 3/4
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend sta
				Moderate Flow(2) at 23.00m.	18.52	23.00) 23.00) (7.00)	DRILLER'S DESCRIPTION: Dark grey fine grained LIMESTONE and SILTSTONE LIMESTONE and SILTSTONE Limestone and siltstone	V2
Remarks					11.52	30.00	T ₂ .	
							Scal (appro	
							Figui	re No. -271.HRBB

Glo	ver Sit	e Ir	ive	stigatio	ns	Ltd	Site FINGAL LANDFILL PROJECT		Borehole Number HR13B
17.00m	hod E DRILLING TO X DRILLING TO	Casing 16 11 10	Diamete 5mm cas 4mm cas 0mm cas	r ed to 17.00m ed to 23.50m ed to 33.80m		Level (mOD) 41.52	Client FINGAL COUNTY COUNCIL		Job Number 05-271
23.50m OPEN HOLE 33.80m		Locatio 31		258239.3 N	Dates 27 28	7/06/2005- 8/06/2005	Engineer RPS-MCOS		Sheet 4/4
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description		Vater W
				28/06/2005		(3.80)	DRILLER'S DESCRIPTION: Dark grey fine grained LIMESTONE and SILTSTONE Total difference. Complete at 33.80m	d	
Remarks								Scale (approx)	Logged By
							-	1:50	TR
								Figure No 05-271	o. 1.HRBB

	on Tyl MONI		ING	Dimensi Intern Diame	ions al Diameter of Tube [A] = 5 eter of Filter Zone = 114 mn	O mm			Client FINGAL C	OUNTY	COUNCI	L	V-0-1			Job Numl 05-2
			į	Location 31826	n 35.2 E 258239.3 N	Ground 4	Level (m		Engineer RPS-MCC)S		, , , , , , , , , , , , , , , , , , ,				Shee
Water	Ins (A	tr	Level (mOD)	Depth (m)	Description				Gı	roundwa	iter Strik	es Durin	g Drilling			
Z X		,	41.02	0.50	Concrete		Į	Depth	1 1				Read			
						Date	Time	Depth Struck (m)	Casing Depth (m)		w Rate	5 min	10 min	15 min	20 min	D S
								23.00		Modera	Flow ate Flow				:	
									Gro	oundwat	er Obser	vations	During D	rilling		
<u>7</u>						Date			Start of SI		Water			nd of Sh		
 V 1				i		27/06/05	Time	Depth Hole (m)	Casing Depth (m)	Water Depth (m)	Water Level (mOD)	Time	Depth Hole (m)	Casing Depth (m)	Water Depth (m)	(n
) 					Cement/Bentonite Grout	28/06/05		17.00	.3	e.	i		33.80			
							100°	is of the	ay other w							
						gecti	on Puried	\$		ment Gr	oundwat	ter Obse	rvations			L
			ŀ			or instit	[A] Type					*	,			
*.					Consent	Date	Ins	trument	[A]				Rema	arks		
,					Cotts	Date	Time	Depth (m)	Level (mOD)							
• ∇ 2																
			17.52 16.72	24.00 24.80	Gravel Filter							•				
				2,,,,,												
	10 40 50 50 50 50 40 50 40 50 40 50 40 50 60 50 60 50 60 50 60 50 60 60 50 60 60 60 60 60 60 60 60 60 60 60 60 60	60 00 00 00 00 00 00 00 00 00 00 00 00 0			Slotted Standpipe		;									
	<u> </u>	900 000 000 000 000 000 000 000 000 000														
		00000000000000000000000000000000000000	7.72	33.80												

Glo	ver	Sit	e Ir	ive	stigatio	ns	Ltd	Site FINGAL LANDFILL PROJECT	Borehole Number SHR01
Machine : I	AIR/MIST	LANĐ	1	Diamete 4mm cas	r sed to 26.50m		Level (mOD) 57.01	Client FINGAL COUNTY COUNCIL	Job Number 05-271
Method : S		X, PEN	Locatio 31		257478.5 N	Dates 14 16	1/06/2005- 6/06/2005	Engineer RPS-MCOS	Sheet 1/6
Depth (m)	TCR	SCR	RQD	FI	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend Nater
Remarks Symmetrix Description	rilling to 26	.50m. Roi	lary Corin	g to 43.55	Consent of C	inspector in the second of the	10.00	DRILLER'S DESCRIPTION: Light brown BOULDER CLAY DRILLER'S DESCRIPTION: Dark grey BOULDER CLAY starts of the true. drilled from 26.50m - 59.50m Scale (approx)	
Difficulties e Standpipe in	ncountered stalled to 5	below 43. 5.00m.	50m due	to highly	fractured rock.			1:50 Figure N	TR lo. 1.SHR01

Glo	over	Sit	e Ir	ıve	stigatio	ns	Ltd	Site FINGAL LANDFILL PROJECT		Borehole Number SHR01
Machine : h	AIR/MIST	SLAND	1	Diamete 4mm cas	er sed to 26.50m		Level (mOD) 57.01	Client FINGAL COUNTY COUNCIL		Job Number 05-271
Method : S		IX, PEN	Locatio 31		E 257478.5 N	Dates 14 16	1/06/2005- 6/06/2005	Engineer RPS-MCOS		Sheet 2/6
Depth (m)	TCR	SCR	RQD	FI	Field Records	Level (mOD)	Depth (m) (Thickness)	Description		Legend Nate
Remarks					Consent of Consent of	ting Rection of the state of th	17.00	DRILLER'S DESCRIPTION: Grey clayey GRAVEL		
Remarks] (Scale (approx)	Logged By
								-	1:50 Figure No	TR
										o. .SHR01

Glo	over	Sit	e Ir	ıve	stigatio	ns	Ltd	Site FINGAL LANDFILL PROJECT	Borehole Number SHR01
Machine : I Flush : / Core Dia : 7	AIR/MIST	SLAND		Diamete 4mm ca	er sed to 26.50m	i	Level (mOD) 57.01	Client FINGAL COUNTY COUNCIL	Job Number 05-271
Method :		IX, PEN	Locatio 31		E 257478.5 N	Dates 14 16	1/06/2005- 6/06/2005	Engineer RPS-MCOS	Sheet 3/6
Depth (m)	TCR	SCR	RQD	FI	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend Late
	•		-				(1.00)	DRILLER'S DESCRIPTION: Grey clayey GRAVEL	\$
					Slight Flow(2) at 21.00m.	36.01	21.00	DRILLER'S DESCRIPTION: Brown CLAY containing occasional cobbles	X 0 x 0
					Major Water Strike(3) at 23.00m.		22.50	DRILLER'S DESCRIPTION: SAND and GRAVEL with a slight trace of clay	a V:
					Consent of C	inspection	oli (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)		
					Major Water Strike(4) at 26.00m.	31.01	26.00	Moderately weak to moderately strong thinly laminated of grey shaley MUDSTONE, non-intact.	
26.50	83	0	0		14/06/2005 15/06/2005			Fractures very to extremely close, dipping 20-30 degree smooth planar, tight, clean, moderately weak, rock shatt	is, iered
27.70	88	8	8				(4.00)		
29.00 29.40	100	0	0						
··_						27.01	30.00		
Remarks								Sc: (app	ale Logged rox) By
									50 TR ure No. 95-271.SHR01

Glo	over	Sit	e Ir	ıve	stigatio	ns	Ltd	Site FINGAL LANDFILL PROJECT	Borehole Number SHR01
Machine : H	AIR/MIST	GLAND	_	Diamete 4mm cas	er sed to 26.50m		Level (mOD) 57.01	Client FINGAL COUNTY COUNCIL	Job Number 05-271
Method : S		IX, DPEN	Location 31		E 257478.5 N	Dates 14 16	1/06/2005- 6/06/2005	Engineer RPS-MCOS	Sheet 4/6
Depth (m)	TCR	SCR	RQD	FI	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend at the Legend
	92	0	0					Moderately weak to moderately strong thinly laminated dark grey shaley MUDSTONE, non-intact. Fractures very to extremely close, dipping 20-30 degrees, smooth planar, tight, clean, moderately weak, rock shattered	
30.60	55	0	0					smooth planar, tight, clean, moderately weak, rock shattered	
32.50	35	0	0				and the transfer of the second	r and other tise.	
34.50	70	0	0	Non-Ir	tact ço	inspection	(10.00)	35.70m: Weak (very weak)	
35.70 36.40	100	0	0		Cour			36.00m: Light grey micaceous Siltstone, disaggregated	
36.40	0	0	0						
37.50	30	0	0						
39.50					15/06/2005 16/06/2005	17.01	40.00		
Remarks								Scale (approx)	Logged By
								1:50 Figure N 05-271	o. .SHR01

Glo	over	Sit	e Ir	ıve	stigatio	ns	Ltd	Site FINGAL LANDFILL PROJECT	Borehol Number SHR0	•
Machine: I	AIR/MIST	LAND		Diamete 4mm cas	er sed to 26.50m		Level (mOD) 57.01	Client FINGAL COUNTY COUNCIL	Job Number 05-271	
Method :		IX, PEN	Locatio 31		E 257478.5 N	Dates 14 16	4/06/2005- 6/06/2005	Engineer RPS-MCOS	Sheet 5/6	
Depth (m)	TCR	SCR	RQD	FI	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
	0	0	0					Moderately weak to moderately strong thinly laminated dark grey shaley MUDSTONE, non-intact. Fractures very to extremely close, dipping 20-30 degrees, smooth planar, tight, clean, moderately weak, rock shattered		
42.50	40	0	0					Kany other use.		
					Consent of c	inspection opytight of	(10.00)			
						7.01				
Remarks						7.01	50.00	Scale (approx)	Logged By	
								1:50 Figure N	TR	_

Glo	ver	Sit	e Ir	ıve	stigatio	ns	Ltd	Site FINGAL LANDFILL PROJECT		Boreho Number SHR0	r
Machine: F Flush : A Core Dia: 7	AIR/MIST	LAND	1	Diamete 4mm cas	er sed to 26.50m	Ground	Level (mOD) 57.01	Client FINGAL COUNTY COUNCIL		Job Number 05-271	
Method : S		X, PEN	Location 31		E 257478.5 N	Dates 1	4/06/2005- 3/06/2005	Engineer RPS-MCOS		Sheet 6/6	_
Depth (m)	TCR	SCR	RQD	Fi	Field Records	Level (mOD)	Depth (m) (Thickness)	Description		Legend	Water
Remarks					Consent of C	inspection of the second	69.50)	Moderately weak to moderately strong thinly laminated digrey shaley MUDSTONE, non-intact. Fractures very to extremely close, dipping 20-30 degrees smooth planar, tight, clean, moderately weak, rock shatter than the strong of	S, erred		
Remarks Borehole coll: Borehole tern	apsed betw ninated at s	veen 59.50 scheduled	0m - 55.00 depth.	Om.				Scal (appro	e ix)	Logged By	-
								1:50		TR	
								Figur 05-		o. .SHR01	

nstalla			O.	Dimensi	nvestigati	Ulis	<u> </u>	u		ANDFILL	PROJE	СТ 				Number SHR0
WATE			ING	Intern	al Diameter of Tube [A] = 38 eter of Filter Zone = 100 mm	mm			Client FINGAL (COUNTY	COUNCI	L				Job Number 05-271
				Location	1	Ground	Level (m	OD)	Engineer							Sheet
				31746	9.7 E 257478.5 N	5	7.01		RPS-MC	os						1/1
gend	Water	str A)	Level (mOD)	Depth (m)	Description		T	,	G	iroundwat	ter Strik	es Durin	g Drilling)		
			56.51	0.50	Concrete	Date	Time	Depth Struc	Casing Depth (m)	Inflow	, Rato		Read	lings		Depth Seale (m)
								17.00 21.00 23.00 26.00	(m)	Slight Fl Slight Fl Major W Major W	low low /ater Stri	5 min ike ike	10 min	15 min	20 min	(m)
			:						Gr	oundwate	er Obse	rvations	During E	Prilling		
						Date		1	Start of S					End of Sh		1
÷0,	Z1					Date	Time	Dept Hole (m)	h Casing Depth (m)	Water Depth (m)	Water Level (mOD)	Time	Depth Hole (m)	Casing Depth (m)	Water Depth (m)	Wate Leve (mOD
× 20	Z 2				Cement/Bentonite Grout	14/06/05 15/06/05 16/06/05	0800 0800	26.50 39.50	atheri	2.	(1700 1700 1700	26.50 39.50 59.50	, (, ,,	()	(IIIOE
	Z 4			i			on Type	s of for		ument Gre	oundwa	ter Obse	rvations		to sale	
					4			trumen	t [A]		***					
					Consent	Date	Time	Depti (m)	Level (mOD)				Rema	arks		
			14.01	43.00	Sand Filter											
	0.000 0.000	0 00 00 00 00 00 00 00 00 00 00 00 00 0	9.51	47.50	Gravel Filter											
	200 000 000 000 000 000 000 000 000 000	600 0 00 000 000 000 000 000 000 000 00	4.96	52.05	Slotted Standpipe		İ									
	60000	8888 8888 8888 8888 8888 8888 8888 8888 8888	2.01	55.00												

Remarks
Upright cover fitted.
Geotextile sock fitted around filter.
End cap at base of standpipe.
Sand filter placed to 45.00m. From 47.50m. Well dipped at 43.00m prior to grouting.
Possible collapse from 45.00m to 43.00m.

Glo	over	Sit	e Ir	ıve	stigatio	ns I	_td	Site FINGAL LANDFILL PROJECT		Borehole Number SHR02
Machine: Flush : A	AIR-MIST		i	Diamete 8mm cas	r sed to 20.70m		evel (mOD) 4.96	Client FINGAL COUNTY COUNCIL		Job Number 05-271
 Method:S		X &	Locatio		257122.7 N	Dates 10/0 13/0	05/2005- 05/2005	Engineer RPS-MCOS		Sheet 1/6
Depth (m)	TCR	SCR	RQD	FI	Field Records	Level (mOD)	Depth (m) Thickness)	Description		Vater Water
					Consent	34.76	(8.90)	TOPSOIL DRILLER'S DESCRIPTION: Brown BOULDER C		
					Slight Flow(1) at 9.50m.	24.96	9.10	DRILLER'S DESCRIPTION: Brown sandy GRAVE		∇1
Remarks Symmetrix D Permeability	rilling to 20 test carried	.70m. Ro	tary Corin .80m.	ng to 55.0	0m. 00m -37.00m = Doub	·			Scale (approx)	Logged By
Packer tests Standpipe in Descriptions Borehole cor	sianed to or	าเมเท			00m -37.00m = Doub	le. 43.00m ·	· 55.00m = S	ingle.	1:50	TR
Poletiole col	iipiete at sc	neduled o	iep(n .						Figure N 05-271	lo. 1.SHR02

Core Dia: 75 Method: SYMMETRIX & CORING Location 318179.9 E 257122.7 N Dates 10/05/2005 13/05/2005 RPS-MCOS RPS-MCOS 05-271 Sheet 2/6	Glo	ver	Sit	e Ir	ıve	stigatio	ns L	td	Site FINGAL LANDFILL PROJECT	Borehole Number SHR02
Company Comp	Flush : A	NR-MIST								Number
Company Comp	Method : S	YMMETRI:	X &			257122.7 N	Dates 10/05 13/05	/2005- /2005		
23.46 (1.50) 23	Depth (m)	TCR	SCR	RQD	FI	Field Records	Level (mOD)	Depth (m) hickness)	Description	Legend Age
Remarks Content of the proof				0	0		23.46	-		8. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5.
Consent of Particular								_	SALEE TO SESSION HOLD. BISMITSHY GRAVERY SALES	
Remarks 18.26									BOULDER CLAY	
14.96						Consent of co	teriti	(3.80)		
14.96 20.00								16.70	DRILLER'S DESCRIPTION: Brown stoney sandy GRAV	EL
Remarks Scale (approx) Logged By 1:50 TR							անահանականականուն	(3.30)		
1:50 TR	Remarks						14.96	20.00		
	nemarks									
I FROME NO										

Core Description Core State Core						stigatio	T		FINGAL LANDFILL PROJECT	SHR02
Description Description	Flush : /	AIR-MIST		_			Ground			Job Number 05-271
	Method : 5	SYMMETRI	X &			E 257122.7 N	1 10	0/05/2005- 3/05/2005	*	
22.20	Depth (m)	TCR	SCR	RQD	FI	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend
22.20									to very weak, very dark slightly brownish grey fine grained siltstone (siltstone in places) Discontinuities very to extremely closely spaced, dipping	
23.70 100 34 0 Non-intact Content of the content	20.70	100	25	0					10-20 degrees (bedding parallel), smooth planar, tight, clean or occasional moderately open and filled with a thin clayey rock gouge.	
25.20 Non-Intact Consent of Conse	22.20	100	36	0					Met use.	
26.70	23.70	100	34	0		<u></u>	inspection in the state of the	de la contraction de la contra	A ARTY O	
100 0 0 0	25.20	100	38	0	Non-l	tact Consent of C	87			
9.70 0.00	26.70	100	0	0						
Remarks 4.96 30.00 Scale (approx) By	28.20		50	0						
Remarks Scale (approx) Logged By	29.70						4 96	30.00		
	Remarks	1		<u> </u>		<u> </u>	4.50	F— 30,00	Scale	Logged
									(approx)	By TR

Glo	WAr	Sit	Δ Ir	NΔ	stigatio	ne	l td	Site	Borehole Number
		Oit				1113	Llu	FINGAL LANDFILL PROJECT	SHR02
Machine : K Flush : A Core Dia : 7	AIR-MIST		_	Diamete 8mm cas	er sed to 20.70m	Ground	Level (mOD) 34.96	Client FINGAL COUNTY COUNCIL	Job Number 05-271
Method : S	SYMMETRI CORING	X &	Locatio 31		257122.7 N		0/05/2005- 3/05/2005	Engineer RPS-MCOS	Sheet 4/6
Depth (m)	TCR	SCR	RQD	FI	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend Nate
	83	20	0					Moderately weak, becoming moderately strong thinly laminated dark grey MUDSTONE with thin bands of weak to very weak, very dark slightly brownish grey fine grained siltstone (siltstone in places)	
30.60	82	0	0					Discontinuities very to extremely closely spaced, dipping 10-20 degrees (bedding parallel), smooth planar, tight, clean or occasional moderately open and filled with a thin clayey rock gouge. Intersecting with similar set dipping 70-80 degrees	
32.00	100	10	0						
32.60	72	0	0					.e.•	
33.50	100	44	18			negetion	Streeting of the street of the	any other use.	
35.00	100	46	10	Non-Ir	Contr	Nigh Nigh	(10.00)		
36.50	100	46	10		11/05/2005:6.10m 12/05/2005				
38.00	100	38	22						
39.60							<u>-</u>		
40.00						-5.04	40.00		
Remarks								Scale (approx)	Logged By
								1:50	TR
								Figure N 05-27	No. 1.SHR02

Glo	over	Sit	e Ir	ıve	stigatio	ns	Ltd	Site FINGAL LANDFILL PROJECT	Borehole Number SHR02
Machine : A	AIR-MIST		i i	Diamete 8mm cas	er sed to 20.70m	Ground	1 Level (mOD) 34.96	Client FINGAL COUNTY COUNCIL	Job Number 05-271
Method : S		X &	Location 31		E 257122.7 N	Dates 1	0/05/2005- 3/05/2005	Engineer RPS-MCOS	Sheet 5/6
Depth (m)	TCR	SCR	RQD	Fi	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend X
	100	6	0					Moderately weak, becoming moderately strong thinly laminated dark grey MUDSTONE with thin bands of weak to very weak, very dark slightly brownish grey fine grained siltstone (siltstone in places) Discontinuities very to extremely closely spaced, dipping 10-20 degrees (bedding parallel), smooth planar, tight, clean or occasional moderately open and filled with a thin	
41.10	. 100	42	0					clayey rock gouge. Intersecting with similar set dipping 70-80 degrees	
42.65	87	0	0					attet use.	
43.75	100	24	3	Non-Ir	tact	in petic	Control of the contro	rany other use.	
45.25	94	33	0		Consent of co	2011			
46.15	100	36	0						
47.25 48.30	100	68	10						
				22					
48.75 48.80	100	16	0			-15.04	50.00		
Remarks	<u> </u>		<u> </u>					Scale (approx)	Logged By
								1:50 Figure N	TR No. 1.SHR02

Glo	over	Sit	e Ir	ıve	stigatio	ns	Ltd	Site FINGAL LANDFILL PROJECT	Borehole Number
Machine : l			Casing	Diamete		Г.	Level (mOD) 34.96	Client FINGAL COUNTY COUNCIL	Job Number 05-271
Core Dia: 7		X &	Location 31		257122.7 N	Dates	0/05/2005- 3/05/2005	Engineer RPS-MCOS	Sheet 6/6
Depth (m)	TCR	SCR	RQD	FI	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend Nater
50.25	78	0	0		12/05/2005:6.20m 13/05/2005			Moderately weak, becoming moderately strong thinly laminated dark grey MUDSTONE with thin bands of weak to very weak, very dark slightly brownish grey fine grained siltstone (siltstone in places)	
50.70	100	40	0	Non-Ir				Discontinuities very to extremely closely spaced, dipping 10-20 degrees (bedding parallel), smooth planar, tight, clean or occasional moderately open and filled with a thin clayey rock gouge. Intersecting with similar set dipping 70-80 degrees	
52.20	100	23	0				(5.00)	net use.	
53.70	0	0	0			geotió	blil blipses of the b	rany after use.	
55.00					13/05/2005:6.20mo		55.00	Complete at 55,00m	
Remarks								Scale (approx)	Logged By
								1:50 Figure 1 05-27	TR No. 1.SHR02

Installat		e .		Dimensi	ions al Diameter of Tube [A] = 3 ater of Filter Zone = 100 mi				FINGAL L Client FINGAL C							SHR02 Job Number 05-271	
				Location 31817	n 79.9 E 257122.7 N	1	Level (m 34.96	nOD)	Engineer RPS-MCC	os						Sheet 1/1	
_egend	Mater (A)	r Lev	vel OD)	Depth (m)	Description				G	roundwa	ater Strik	es Durin	g Drilling	g			
			1.46	0.50	Concrete	Dete	T:	Depth Struc	Casing				Read	lings		Depth	
						Date	Time	9.50	Casing Depth (m)	Slight F	Flow	5 min	10 min	15 min	20 min	Depth Seale (m)	
✓ V	71										er Obser	rvations	During [
						Date		Depti Hole	Start of S		Water	<u></u>		End of SI		Water	
D: 0 × 0 × 0 × 0 × 0 × 0 × 0 × 0 × 0 × 0					Cement/Bentonite Grout	10/05/05 11/05/05 12/05/05 13/05/05	0800	(m) 20.70	(m)	Water Depth (m)	Water Level (mOD)	1700 1700 1700 1700	Depth Hole (m) 20.70 36.50 50.25 55.00	Casing Depth (m)	5.95 6.10 6.20 6.20	29.01 28.86 28.76 28.76	
						of ilings!	On Purel Owner red [A] Type	inted to	Instru		roundwat	ter Obse	rvations				
					College	Date	Time	Depth (m)	Level (mOD)				Rema	arks			
		-11. -13. -14.	.04	46.00 48.00 49.10	Sand Filter Gravel Filter Slotted Standpipe												
		-20.	04	55.00													

Geotextile sock fitted around filter. Upright cover fitted. End cap at base of standpipe.

Glo	ver Sit	e Ir	ive	stigatio	ns	Ltd	- 1	Site FINGAL LANDFILL PROJECT		Borehole Number SHR03
Boring Met SYMMETRI	hod X DRILLING	1	Diamete 4mm cas	r ed to 31.50m		Level (mO 49.21		Client FINGAL COUNTY COUNCIL		Job Number 05-271
		Location 31		56777.5 N	Dates 3 02	1/05/2005- 2/06/2005		Engineer RPS-MCOS		Sheet 1/4
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thicknes	ss)	Description	I	Legend Kater
Remarks Descriptions Difficulties ad	of overburden based by ancing casing below stalled to 30.35m.	on driller	s logs.	Consent of C	49.01 48.21 40.21 39.21		0) 000 000 000 000 000 000 000 000 000	DRILLER'S DESCRIPTION: Brown slightly sandy CLAY DRILLER'S DESCRIPTION: Dark grey BOULDER CLAY BOULDER CLAY will arge cobbles Sca	AY AY AY AY AY AY AY AY AY AY	
Standpipe ins	stalled to 30.35m.							1:5	50	TR
									ure No. 05-271.	

Glo	ver Sit	e Ir	ive	stigatio	ns	Ltd	Site FINGAL LANDFILL PROJECT	Borehole Number SHR03
Boring Metal			Diamete 4mm cas	r ed to 31.50m		Level (mOD) 49.21	Client FINGAL COUNTY COUNCIL	Job Number 05-271
		Locatio 31		56777.5 N	Dates 31 02	1/05/2005- 2/06/2005	Engineer RPS-MCOS	Sheet 2/4
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend kate
				Consent	inage citor	(10.00)	DRILLER'S DESCRIPTION: Brown BOULDER CLAY with large cobbles	
Remarks					h		Scale (approx)	Logged By
							1:50 Figure I	TR

Glo	ver Sit	e Ir	ıve	stigatio	ns	Ltd	Site FINGAL LANDFILL PROJECT	Borehole Number SHR03
Boring Met SYMMETRI	hod X DRILLING		Diamete 4mm cas	er sed to 31.50m	Ground	Level (mOD) 49.21	Client FINGAL COUNTY COUNCIL	Job Number 05-271
		Locatio		256777.5 N	Dates 3	1/05/2005- 2/06/2005	Engineer RPS-MCOS	Sheet 3/4
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend Mater
				31/05/2005:16.00m 02/06/2005	ingection integrated Springer 23.71	25.50	DRILLER'S DESCRIPTION: Slightly sandy fine GRAVEL with some clay	
Remarks		<u>. </u>				f	Scale (approx)	Logged By
							1:50	TR
							Figure 05-2	No. 71.SHR03

Glo	ver Sit	e Ir	ıve	stigatio	ns	Ltd	Site FINGAL LANDFILL PROJECT	Boreh Numb	er
Boring Meth			Diamete 4mm cas	er sed to 31.50m	Ground	I Level (mOD) 49.21	Client FINGAL COUNTY COUNCIL	Job Numb	
		Locatio 31		256777.5 N	Dates 3 0	1/05/2005- 2/06/2005	Engineer RPS-MCOS	 Sheet	
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
		(m)	(fh)	Moderate Flow(1) at 30.00m. 02/06/2005:17.50m	17.71	31.50	DRILLER'S DESCRIPTION: Coarse sandy GRAVEL Complete at 31.50m	Legend	e _M ∇1
Remarks Borehole colla Virtual refusal	ipsed below 30.35m met at 31.50m due	to casing	binding in	n sands and gravels.			Scal (appro 1:50	Logged By	t

G	lc) \	⁄e	r Si	te Ir	nvestigati	ons	Lto	d	Site FINGAL L	ANDFILL	_ PROJE	СТ				Borehole Number SHR03
Install WATE				RING	Dimensi Interna Diame	ons al Diameter of Tube [A] = 50 tter of Filter Zone = 100 mm	mm			Client FINGAL C	OUNTY	COUNC	IL				Job Number 05-271
					Location 31739	4 E 256777.5 N	Ground 4	Level (m	nOD)	Engineer RPS-MCC)S		0.70				Sheet 1/1
Legend	Water	In (,	str A)	Level (mOD)	Depth (m)	Description				G	roundwa	iter Strik	es Durin	g Drilling]		
7,8,7,7,8			111	48.71	0.50	Concrete	Date	Timo	Depth Struck	Casing	Inflo	u Data		Read	ings		Depth
					i		Date	Time	30.00	Casing Depth (m)		w Rate	5 min	10 min	15 min	20 min	Depth Sealed (m)
										Gre	oundwat	ter Obse	rvations	During D	rilling		
	_						_			Start of S	hift			E	nd of Sh	ift	
× 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	_						Date	Time	Depth Hole (m)	Casing Depth (m)	Water Depth (m)	Water Level (mOD)	Time	Depth Hole (m)	Casing Depth (m)	Water Depth (m)	Water Level (mOD)
× 0 · · · × · · · · · · · · · · · · · ·							31/05/05 02/06/05	0800	22.00		Ø.•	, = <i>j</i>	1700 1700	22.00 31.50	()	16.00 17.50	33.21 31.71
× 0 × 0						Cement/Bentonite Grout	Sody.	2014 other w									
*							· AS AN	on Partied		Instru	ıment Gı	roundwa	ter Obse	rvations			-
×. ×						×.	1003	[A] Type Ins	trument	t [A]				·			<u> </u>
×						Carsen	Date	Time	Depth (m)	Level (mOD)				Rema	ırks		
×							,										
	/// b 5 5000 0 4			22.71 21.81	26.50 27.40	Gravel Filter											
	2 9 0 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9		50 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			Slotted Standpipe		i									
	Z1 🖁		2 8 2 8 2 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	18.86	30.35												
Upright	ctile s	/er f	itted	d around f			1			<u>.1</u>							

Top Core Depth Top Core Top Core Top Top Core Top Top Core Top Top Core Top Top Core Top Core Top Top Core Top Top Core Top Top Core Top Top Core Top Top Core Top Top Core Top Core Top Top Core Top Top Core T	Borehole Number SHR03A		FINGAL LANDFILL PROJECT	Ltd	ns	stigatio	ive	e ir			
Method: SYMMETRIX & Location 317286.7 E 258728.1 N Dates 30/08/2005 O 1/09/2005 Job Number 05-271	NCIL			1			1	LAND	IR-MIST	Flush : A	
(Thickness) 52.71 0.10 TOPSOIL DRILLER'S DESCRIPTION: Brown BOULDER CLAY 49.81 3.00 ORDELLER'S DESCRIPTION: Grey and brown BOULDER CLAY COMPANY OF THE PROPERTY OF TH	Sheet 1/5			30/08/2005- 01/09/2005	Dates 30 01	256728.1 N		1	X &	YMMETRI ORING	Method : S
DRILLER'S DESCRIPTION: Brown BOULDER CLAY 49.81 3.00 DRILLER'S DESCRIPTION: Grey and brown BOULDER CLAY OF THE PROPERTY OF	Legend	Description	Descri	Depth (m) (Thickness)	Level (mOD)	Field Records	FI	RQD	SCR	TCR	Depth (m)
			DRILLER'S DESCRIPTION: Br	3.00 (2.90)	49.81	Consent					
42.81 10.00 Signature 10.00				1 10.00	42.81						
orehole had to be reemed out using 165mm DTHH - 2.5 hours from 0.00m - 21.00m tandpipe installed to 42.15m. vymmetrix drilling from 0.00m - 29.00m. Cored from 29.00m - 43.00m	Logged By	Scale (approx)		00m	m - 21.00i	- 2.5 hours from 0.00 29.00m - 43.00m	ared from	0.00 0.0	0.00m = 20	illina from (Symmetrix dr
	AM					20.00m - 40.00m.	s logs.	on driller	den based	of overburd	Descriptions

Machine IA-NG-STAT Core did Color Co	Principle 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	Glo	ver	Sit	e Ir	ıve	stigatio	ns	Ltd	Site FINGAL LANDFILL PROJECT	Borehole Number SHR03A
Description Security Description Des	Method : SMAMETRX & STATE A TOTAL TOTAL STATE A TOTAL TOTAL STATE A TOTAL TOTAL STATE A TOTAL TOTAL STATE A TOTAL STATE A TOTAL STATE A TOTAL STATE A TOTAL STATE A TOTAL STATE STAT	Flush : A	AIR-MIST	LAND							Number
Cute of the control o	Consult of the control of the contro			IX &			E 256728.1 N	30	0/08/2005- 1/09/2005		
Contract of Contra	Constitute of the control of the con	Depth (m)	TCR	SCR	RQD	FI	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend A
Remarks Scale Logged (approx) By	Scale (approx) By 1:50 AM						Consent	34.81	(7.00) 17.00 18.00 18.00	DRILLER'S DESCRIPTION: Brown BOULDER CLAY	
	1:50 AM	Remarks					!			Scale (approx)	Logged By

Glo	ver	Sit	e Ir	ive	stigatio	ns	Ltd	Site FINGAL LANDFILL PROJECT	Borehole Number SHR03A
Machine : F Flush : A Core Dia: 7	AIR-MIST	LAND	Į.	Diamete 5mm cas	r sed to 29.00m	l .	Level (mO E 52.81	Client FINGAL COUNTY COUNCIL	Job Number 05-271
 Method:S		× &	Locatio 31		256728.1 N	Dates 30 01)/08/2005- /09/2005	Engineer RPS-MCOS	Sheet 3/5
Depth (m)	TCR	SCR	RQD	FI	Field Records	Level (mOD)	Depth (m) (Thickness	Description	Vater Water
						31.81	(1.00		
						29.81	23.00	DRILLER'S DESCRIPTION: Brown and grey SILTSTONE	
					Consent of G	i irspeciolo opytieno opytieno	de la constant de la		
						25.81	27.00	DRILLER'S DESCRIPTION: Grey SILTSTONE with traces of grey clay	
29.00 Remarks					21/08/2005 30/08/2005 30/08/2005 01/09/2005	23.81	29.00	grained MUDSTONE. (Full description as Sheet 4)	X X X X X X X X X X X X X X X X X X X
метагкѕ								Scale (approx)	Logged By
								1:50 Figure N 05-271.	AM o. SHR03A

Glo	over	Sit	e Ir	ıve	stigatio	ns	Ltd	Site FINGAL LANDFILL PROJECT	Borehole Number SHR03A
Machine : Flush : A	AIR-MIST	LAND	_	Diamete 5mm cas	ed to 29.00m	Ground	Level (mOD) 52.81	Client FINGAL COUNTY COUNCIL	Job Number 05-271
Method : S		X &	Locatio 31		256728.1 N		0/08/2005- 1/09/2005	Engineer RPS-MCOS	Sheet 4/5
Depth (m)	TCR	SCR	RQD	FI	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Fedeud Page 7
	60	0	0	Non-Ir	itact			Moderately strong thickly laminated very dark grey fine grained MUDSTONE, thinly interbedded with mudstone/shale, completely weathered to firm, (thinly laminated where only highly weathered), very dark grey gravelly silt. Gravel is sub-rounded fine, moderately strong, very dark grey fine grained mudstone.	
31.00	59	0	0	Non-Ir	itact			Full recovery due to core liner and partially intact rock; fracture very closely spaced dipping 30 degrees, (bedding parallel), smooth planar, tight, clean from 34.00m - 35.85m. Dark brownish grey due to extremely close, iron stained pale laminae from 35.60m - 35.85m	
32.60	61	0	0	Non-Ir	ıtact		التلائلية	Jollet use.	
34.00 34.15 34.50 34.80	100	24	0	18 Non-Ir 16 Non-Ir	itact Francisco	inspection of the control of the con	of the tree tired (10.00)	rany other use.	
35.85	51	0	0	Non-In					
37.80	56	0	0	Non-In	tact				
38.70	77	0	0	Non-In	tact				
40.00 Remarks						12.81	40.00	Scale	Logged
								Scale (approx) 1:50 Figure N 05-271.	AM o. SHR03A

Glo	ver	Sit	e Ir	ive	stigatio	ns	Ltd	Site FINGAL LANDFILL PROJECT	Borehol Number SHR03
Machine : F Flush : F Core Dia : 7	AIR-MIST	LAND	_	Diamete 5mm cas	r ed to 29.00m	Ground	Level (mOD) 52.81	Client FINGAL COUNTY COUNCIL	Job Number 05-271
Method : S		X &	Locatio 31		256728.1 N		0/08/2005- 1/09/2005	Engineer RPS-MCOS	Sheet 5/5
Depth (m)	TCR	SCR	RQD	FI	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend
	43	0	0	Non-Ir	itact			Moderately strong thickly laminated very dark grey fine grained MUDSTONE, thinly interbedded with mudstone/shale, completely weathered to firm, (thinly laminated where only highly weathered), very dark grey gravelly silt. Gravel is sub-rounded fine, moderately strong, very dark grey fine grained mudstone	
11.40	34	0	0	Non-ir			(3.00)		
43.00					01/09/2005		43.00 43.00	Complete of 43.00m	
Remarks orehole uns orehole terr	stable belov minated on	v 40.00m. Enginners	s instruction	on.			=	Scale (approx)	Logged By
								1:50 Figure N 05-271.	AM o. SHR03A

G	lo	ve	r Si	te Ir	nvestigati	ons	Lto	d	Site FINGAL L	ANDFILL	. PROJE	СТ			1	Borehole Number
Installa WATE		Type ONITOR	ING	Dimensi Interna Diame	ons al Diameter of Tube [A] = 50 tter of Filter Zone = 100 mm	mm			Client FINGAL C	COUNTY	COUNC	IL				Job Number 05-271
				Location 31728	6.7 E 256728.1 N	Ground 5	Level (m 2.81	OD)	Engineer RPS-MCC	os					\$	Sheet 1/1
Legend	Water	Instr (A)	Level (mOD)	Depth (m)	Description				G	roundwa	iter Strik	es Durin	g Drilling)		
ו•• Q•• O••ו•			52.31	0.50	Concrete	Date	Time	Depth Struc (m)	Casing k Depth (m)	Inflo	v Rate		Read	ı		Depth Sealed (m)
								(m)				5 min	10 min		20 min	(m)
											er Obse	rvations	During D			
						Date	Time	Depti	Start of S		Water	T:	Depth Hole	End of Sh Casing		Water
						21/08/05 30/08/05 01/09/05	0800 0800	Depti Hole (m) 21.00 29.00		Water Depth (m)	Water Level (mOD)	1700 1700	29.00 21.00 43.00	Casing Depth (m)	Water Depth (m)	Water Level (mOD)
					Cement/Bentonite Grout		400 cg	esoply.	any other w							
******* ******** *******						a Reciti	on Printed			ıment Gr	oundwa	ter Obse	rvations			
×××××× ×××××× ××××××					4	or illinest.	[A] Type	:						M		
****** ****** ******					att c		Inst	trumen	t [A]				D			
****** ****** ****** ******					Consent	Date	Time	Depth (m)	Level (mOD)				Rema	ırks		
***** ***** *****																
	///// / // // // // // // // // // // /		14.11 13.61	38.70 39.20	Gravel Filter Slotted Standpipe											
	50 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		10.66 9.81	42.15 43.00	Gravel Filter											
Remark	s			_			-									

ORLER'S DESCRIPTION: Yellowish brown gravely CLN 27.21	Glo	ver	Sit	e Ir	ive	stigatio	ns	Ltd	Site FINGAL LANDFILL PROJECT	Borehole Number SHR04
Application Application	Flush : A	IR-MIST	LAND							Number
TOPSOR. 30.41 30.41 30.41 30.41 30.41 30.41 30.40 DRILLER'S DESCRIPTION: Vallowin brown gravely CLAV 27.21 3.80 DRILLER'S DESCRIPTION: Brown and gray BOULDER 3.80 3.80 DRILLER'S DESCRIPTION: GRAVEL with cobbies 3.80 3.80 3.80 3.80 DRILLER'S DESCRIPTION: GRAVEL with cobbies 3.80	Method : S C	YMMETRI: ORING	× &			256417 N	03	3/06/2005- 0/06/2005		
Remarks of controlled in Sand or dillers large lacker liefs carried of all 26 Seri, 34 Son, 44 Ton. Remarks of controlled in Sand or dillers large lacker liefs carried of all 26 Seri, 34 Son, 44 Ton. Remarks of controlled in Sand or dillers large lacker liefs carried of all 26 Seri, 34 Son, 44 Ton. Banks of controlled in Sand or dillers large lacker liefs carried of all 26 Seri, 34 Son, 44 Ton. Banks of controlled in Sand or dillers large lacker liefs carried of all 26 Seri, 34 Son, 44 Ton. Banks of controlled in Sand or dillers large lacker liefs carried of all 26 Seri, 34 Son, 44 Ton. Banks of controlled in Sand or dillers large lacker liefs carried of all 25 Seri, 34 Son, 44 Ton. Banks of controlled in Sand or dillers large lacker liefs carried of all 25 Seri, 34 Son, 44 Ton. Banks of controlled in Sand or dillers large lacker liefs carried of all 25 Seri, 34 Son, 44 Ton. Banks of controlled in Sand or dillers large lacker liefs carried of all 25 Seri, 34 Son, 44 Ton. Banks of controlled in Sand or dillers large lacker liefs carried of all 25 Seri, 34 Son, 44 Ton. Banks of controlled in Sand or dillers large lacker liefs carried of all 25 Seri, 34 Son, 44 Ton. Banks of controlled in Sand or dillers large lacker liefs carried of all 25 Seri, 34 Son, 44 Ton. Banks of controlled in Sand or dillers large lacker liefs carried of all 25 Seri, 34 Son, 44 Ton. Banks of controlled in Sand or dillers large lacker liefs carried of all 25 Seri, 34 Son, 44 Ton. Banks of controlled in Sand or dillers large lacker liefs carried or dillers large lacker liefs carried or dillers large lacker liefs carried or dillers large lacker liefs carried or dillers large lacker liefs carried or dillers large lacker liefs carried or dillers large lacker liefs carried or dillers large lacker liefs carried or dillers large lacker liefs carried or dillers large lacker liefs carried or dillers large lacker liefs carried or dillers large lacker liefs carried or dillers large lacker liefs carried or dillers lacker lacker lacker l	Depth (m)	TCR	SCR	RQD	Fi	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend Nate
Remarks Descriptions of overburden based on drillers logs. Packer test carried out at 24.50m, 34.50m, 44.70m. Standpipe installed to 51.20m Symmetrix Drilling to 17.25m. Rotary Coring to 51.20m. 1:50 AM					0	Consent	27.21 inspection	(3.20) 3.50 3.50 (3.50)	DRILLER'S DESCRIPTION: Yellowish brown gravelly CLAY DRILLER'S DESCRIPTION: Brown and grey BOULDER CLAY	
Standpipe installed to 51.20m Symmetrix Drilling to 17.25m. Rotary Coring to 51.20m. 1:50 AM	Remarks Descriptions	of overbure	den based	l on driller	s logs.		20.71	10.00	Scale (approx)	
1 1 9 11 11 11 11 11 11 11 11 11 11 11 1	⊬acker test ca Standpipe ins Symmetrix Dr	arried out a talled to 5° illing to 17	at 24.50m, 1.20m .25m. Ro	, 34.50m, tary Corin	44.70m. g to 51.20	0m.			1:50	AM

Glo	ver	Sit	e Ir	ıve	stigatio	ns	Ltd	Site FINGAL LANDFILL PROJECT	Borehole Number SHR04
Machine: F Flush : A Core Dia: 7	AIR-MIST	LAND	į.	Diamet 14mm ca	er sed to 17.25m	Ground	1 Level (mOD) 30.71	Client FINGAL COUNTY COUNCIL	Job Number 05-271
 Method:S		X &	Location 3		E 256417 N	Dates 0:	3/06/2005- 9/06/2005	Engineer RPS-MCOS	Sheet 2/6
Depth (m)	TCR	SCR	RQD	FI	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend Mater
17.25 17.30 17.65 17.85 18.00 18.95 18.95 18.95 18.95 19.00 19.25 19.50	100	79 63	47 38	Non-1 3 27 Non-1 13 3 NI 44 15	Moderate Flow(2) at 17.00m.	13.81	16.90 (3.10)	Moderately strong medium grey arenaceous LIMESTONE, thinly laminated with moderately weak dark grey calcareous mudstone. Fractures medium to closely spaced, dipping 25 degrees, smooth planar, tight, clean (very to extremely closely spaced in occasional shaley bands)	∇2
Remarks			L	L		10.71	20.00	Scale	Logged By
								(approx) By AM
								Figure	

Glo	ver	Sit	e Ir	ive	stigatio	ns	Ltd	Site FINGAL LANDFILL PROJECT	Borehole Number SHR04
Machine : F Flush : A Core Dia : 7	AIR-MIST	LAND	1	Diamete 4mm cas	ed to 17.25m	Ground	Level (mOD) 30.71	Client FINGAL COUNTY COUNCIL	Job Number 05-271
Method : S		X &	Locatio 31		256417 N	Dates 00 00	8/06/2005- 9/06/2005	Engineer RPS-MCOS	Sheet 3/6
Depth (m)	TCR	SCR	RQD	FI	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Kater Water
20.40 20.55 20.75 20.80 21.35 21.45	100	100	83	8 40 -5 -20 5 -20				Moderately strong medium grey arenaceous LIMESTONE, thinly laminated with moderately weak dark grey calcareous mudstone. Fractures medium to closely spaced, dipping 25 degrees, smooth planar, tight, clean (very to extremely closely spaced in occasional shaley bands)	
22.40 23.10 23.20 24.30	100	97	87	7 9 3	Ç	ingetion	blandses off	Kany Office use.	
25.40 25.45 25.65 26.10 26.30 26.50 26.85 27.00 27.90 28.40 28.85	96	98	68	20 10 2 20 5 26 15 5 9 2	Consent of C				
	96	100	78			0.71	30.00		
Remarks								Scale (approx) 1:50 Figure N 05-27	Logged By AM No. 1.SHR04

Glo	ver	Sit	e Ir	ıve	stigatio	ns	Ltd	Site FINGAL LANDFILL PROJECT	Borehole Number SHR04
Machine : H Flush : A Core Dia: 7	AIR-MIST	LAND	1 -	Diamete	er sed to 17.25m	Ground	Level (mOD) 30.71	Client FINGAL COUNTY COUNCIL	Job Number 05-271
 Method : S		X &	Location 31		E 256417 N		3/06/2005- 9/06/2005	Engineer RPS-MCOS	Sheet 4/6
Depth (m)	TCR	SCR	RQD	FI	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend Mater
				5				Moderately strong thinly bedded medium grey fine grained LIMESTONE thinly interbedded with moderately strong to moderately weak dark grey calcite mudstone. Fractures medium to closely spaced, dipping 25 degrees,	
30.70				9				smooth planar, tight, clean (very to extremely closely spaced in occasional shaley bands)	
31.50				4	07/06/2005:3.20m 08/06/2005				
32.05 32.20				20 10					
32.50						i			
	100	99	67	5			F		
33.30			i					Kaby offet use.	
				11			Tredured for	, and	
34.50		-				3	Purpostired Princed		
34.90				10		inspection			
35.20	100	66	18	Non-Ir	tact ço	inspection of paying the control of	(9.80)		
35.70 36.00				Non-Ir	tact Conser				
36.10				7		i.		34.90m - 35.20m: Weak to moderately weak dark grey mudstone extremely fractured, non-intact	
36.40				15					
36.60 36.85				4					
37.25 37.35 37.40	100	80	44	8 20 Ni				35.70m - 36.00m: Weak to moderately weak dark grey mudstone extremely fractured, non-intact (from 35.90m moderately strong and less fractured)	
37.50	100	00	-,-,	14 18			E		
38.00					_			37.50m - 38.50m: Rock moderately weak; fractures occur in 10mm thick shatter zones rather than clearly	
i				5					
39.00 39.10				NI 4					
39.35 39.45 39.50	100	90	58	—Non-Ir Ņon-Ir					
39.80 39.85				NI		-9.09	39.80	LIMESTONE (Full description same Sheet 5)	
Remarks								Scale (approx)	Logged By
								1:50	AM .
								Figure N 05-27	1. SHR04

Glo	ver	Sit	e Ir	ıve	stigatio	ns	Ltd	Site FINGAL LANDFILL PROJECT	Borehole Number SHR04
Machine : Flush : A	AIR-MIST	LAND	1	Diamete 4mm cas	er sed to 17.25m	Ground	i Level (mOD) 30.71	Client FINGAL COUNTY COUNCIL	Job Number 05-271
Method : S		X &	Locatio		256417 N	Dates 0	3/06/2005- 9/06/2005	Engineer RPS-MCOS	Sheet 5/6
Depth (m)	TCR	SCR	RQD	FI	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend Nate
40.70 40.75 41.05 41.55 41.60 41.70	100	81	35	15 NI 20 10				Moderately strong thinly bedded medium grey fine grained LIMESTONE thinly interbedded with moderately strong to moderately weak dark grey calcite mudstone. Fractures close to medium spaced in the medium grey limestone, dipping 10-20 degrees, smooth planar, tight, clean. Fractures very closely to extremely closely spaced in mudstone, dipping 10-20 degrees, smooth planar, tight, clean	
42.15 42.20 42.40 42.75 42.95 43.10 43.50 44.10	100	92	54	NI 5 17 5 Non-Ir 3 12 15 7		inspecial	de la la la la la la la la la la la la la	of any other use.	
45.20 45.25 45.55 45.60 46.05 46.60	100	98	69	NI 10 80 4 18	Consent of C	SP.			
49.35 49.80	100	74	69	5		-19.29	50.00		
Remarks	<u> </u>		1					Scale (approx)	Logged By
								1:50 Figure N	АМ

Glo	ver	Sit	e Ir	ive	stigatio	ns	Ltd	Site FINGAL LANDFILL PROJECT	Borehole Number SHR04
Machine: H Flush: A Core Dia: 7	IR-MIST	LAND		Diamete 4mm cas	r ed to 17.25m		Level (mOD) 30.71	Client FINGAL COUNTY COUNCIL	Job Number 05-271
Method : S		X &	Locatio 31		256417 N		3/06/2005- 9/06/2005	Engineer RPS-MCOS	Sheet 6/6
Depth (m)	TCR	SCR	RQD	FI	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend Mater
50.20 50.40 50.45 50.75 51.20				Non-lr 5 NI 10 4	09/06/2005	-20.49		Moderately strong thinly bedded medium grey fine grained LIMESTONE thinly interbedded with moderately strong to moderately weak dark grey calcite mudstone. Fractures close to medium spaced in the medium grey limestone, dipping 10-20 degrees, smooth planar, tight, clean. Fractures very closely to extremely closely spaced in mudstone, dipping 10-20 degrees, smooth planar, tight, clean. Complete at 51.20m	
Borehole tern	ninated at	scheduled	depth.					Scale (approx) 1:50 Figure 1 05-27	AM

G	lc)Ve	er S	ite l	nvestigati	ons	Lte	d	Site FINGAL L	ANDFILL	PRÓJE	СТ		-		Borehole Number SHR04
Installa WATE			ORING	Dimens Interr Diam	ions nal Diameter of Tube [A] = 50 eter of Filter Zone = 100 mm	mm			Client FINGAL C	COUNTY	COUNC	IL		·· ·		Job Number 05-271
				Locatio	n 87.6 E 256417 N	Ground	Level (m 0.71	nOD)	Engineer RPS-MC(ne			//		,	Sheet 1/1
	7.		1		1		0.71		KF3-WCC							
Legend	Water	Instr (A)	Level (mOD	Depth (m)	Description				G	roundwat	ter Strik	es Durin	g Drilling	9		
723777X			30.2	1 0.50	Concrete	Data	Time	Depth Struc	Casing	161	D. (Read	lings	.,	Depth
	ļ					Date	Time	(m)	Casing k Depth (m)	Inflow	Kate	5 min	10 min	15 min	20 min	Depth Sealed (m)
								13.00 17.00		Moderat Moderat						
0.0									Gr	oundwate	er Obse	rvations	During D	rilling		
	∇ 1					Data			Start of S					End of St		
						Date	Time	Depti Hole (m)	h Casing Depth (m)	Water Depth (m)	Water Level (mOD)	Time	Depth Hole (m)	Casing Depth (m)	Water Depth (m)	Water Level (mOD)
	Vα					03/06/05 07/06/05		19.00	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		(19.00 31.50		3.20	27.51
	¥2					08/06/05 09/06/05		31.50	.3	e.			42.20 51.20		3.30	27.41
									any other v							
					Cement/Bentonite Grout		-00	isonly,	alis							i
							1 Pite	inc						·		
						nectif	on Party		Instru	ument Gro	oundwa	ter Obse	rvations			
						of linest.	[A] Type	:		-,		-				
					1	GOS,			4.543							
					ent.	3	ins	trumen	t [A]				D			
					Consent	Date	Time	Depti (m)	Level (mOD)				Rema	arks		
								(m)	(mOD)							
	1//		-11.59	42.30	Sand Filt											
				44.30	Sand Filter											
	000000		-13.59 -14.59	45.30	Gravel Filter											
	<u> </u>		53 00 4 03 00 0 0 0 0 0 0 0 0 0 0 0 0 0 0		Gravel Filter											
	9000000		-20.49	51.20												
Remark	s		-20.49	31.20												

Geotextile sock fitted around filter.
Upright cover fitted.
End cap at base of standpipe.

Find STANKER			Sit			stigatio	,		Site FINGAL LANDFILL PROJECT		Borehole Number SHR05
Section Sect	Flush : A	AIR-MIST		1							Job Number 05-271
Remarks Storpe Flow(2) at 8.55m motion to take the storpe of the storpe of take the storp	Method : S	SYMMETRI	X &			E 256785.2 N	17	7/05/2005- 8/05/2005			Sheet 1/6
Slight Flow(1) at 1.00 DRILLER'S DESCRIPTION: Grey to dark grey sandy gravely BOUL DER CLAY Slight Flow(2) at 8 80m. Remarks Slight Flow(2) at 8 80m. Slight Flow(2) at 8 80m. Slight Flow(2) at 8 80m. Slight Flow(2) at 8 80m. Slight Flow(2) at 8 80m. Slight Flow(2) at 8 80m. Slight Flow(2) at 8 80m. Slight Flow(3) at 8 80m. Slight Flow(4) at 8 80m. Slight Flow(5) at 8 80m. Slight Flow(6) at 8 80m. Slight Flow(7) at 8 80m. Slight Flow(8) at 8 80m. Slight Flow(9) at 8 80m. Slight Flow(9) at 8 80m.	Depth (m)	TCR	SCR	RQD	FI	Field Records	Level (mOD)	Depth (m) (Thickness)	Description		Legend to
Consent of Remarks Slight Flow(2) at 8.60m. Remarks Slandplp intalled to 55.55m Slandplp intalled to 55.55m Packer tests at 24.00m, 39.50m, 48.50m.						Slight Flow(1) at 1.50m.	33.11	(1.60)	DRILLER'S DESCRIPTION: Brown FILL DRILLER'S DESCRIPTION: Grey to dark grey gravelly BOULDER CLAY	sandy	▼
Remarks Standpipe installed to 55.55m Packer tests at 24.00m, 39.50m, 48.50m. Falling head test at 15.80m.						Consental	inspect of		or any other use.		
Standpipe installed to 55.55m Packer tests at 24.00m, 39.50m, 48.50m. Falling head test at 15.80m						Slight Flow(2) at 8.60m.	24.81	10.00			
Paining nead test at 15.80m. Descriptions of overburden based on drillers logs. Symmetrix Drilling to 22.00m. Rotary Coring to 56,00m	Remarks Standpipe in Packer tests	stalled to 5	5.55m 39.50m,	48.50m.			.			Scale (approx)	Logged By
Figure No.	Palling head Descriptions Symmetrix D	test at 15.8 of overbur Filling to 22	sum. den based 00m. Ro	d on driller tary Corin	s logs. g to 56.0	00m					AM

Glover Si	te Ir	ıve	stigatio	ns	Ltd	Site FINGAL LANDFILL PROJECT		Borehole Number SHR05
Machine: KNEBEL Flush: AIR-MIST Core Dia: 75		Diamete 88mm cas	er sed to 22.00m		Level (mOD) 34.81	Client FINGAL COUNTY COUNCIL		Job Number 05-271
Method: SYMMETRIX & CORING	Location 31		E 256785.2 N	Dates 17 23	7/05/2005- 3/05/2005	Engineer RPS-MCOS		Sheet 2/6
Depth (m) TCR SCF	RQD	FI	Field Records	Level (mOD)	Depth (m) (Thickness)	Description		Vater Vater
			Consent	21.11 ingerio	13.70) 13.70) 13.70) 13.70)	DRILLER'S DESCRIPTION: Grey sandy GRAVEL DRILLER'S DESCRIPTION: Grey sandy GRAVEL		
				14.81	20.00			X, X,
Remarks							Scale approx)	Logged By
						<u> </u>	1:50 Figure No 05-271.	

Glo	ver	Sit	e Ir	ıve	stigatio	ns	Ltd	Site FINGAL LANDFILL PROJECT	Borehole Number SHR05
Machine : A Flush : A Core Dia: 7	AIR-MIST		1 -	Diamete	r ed to 22.00m		Level (mOD) 34.81	Client FINGAL COUNTY COUNCIL	Job Number 05-271
Method : S		X &	Location 31		256785.2 N		/05/2005- /05/2005	Engineer RPS-MCOS	Sheet 3/6
Depth (m)	TCR	SCR	RQD	FI	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend Nater
						13.71	(1.10)	DRILLER'S DESCRIPTION: Grey silty clayey GRAVEL Strong medium bedded dark grey fine grained micritic LIMESTONE interbedded with thin bands of moderately strong, moderately weak thinly laminated very dark grey shaley mudstone at wide intervals. Joint Set 1 closely to very closely spaced, dipping 40-50	
22.00 22.35 22.45 23.00	100	41	30	15 Non-Ir 12 Non-Ir				degrees, smooth planar, tight, clean, bedding parallel. Joint Set 2 closely spaced dipping 70 degrees, smooth planar to rough planar, tight to moderately open, clean or thin quartz mineral coating. Joint Set 3 medium to widely spaced dipping 60 degrees, smooth planar, tight, clean with patchy quartz mineralisation.	
23.35 23.70 23.95	100	81	81	6 Non-In	tact	ecito	auto ses off	10-30mmethick, dipping 60 degrees, planar	
24.90 25.40 25.90	100	52	45	Non-In	17/05/2005 19/05/2005 tact Consent of Consen	instraction of the control of the co	(8.90)		
26.10 26.90 27.00	100	60	57	8 Non-in					
27.40 27.90	100	67	41	5 Non-In	tact				
28.70 28.95	100	81	60						
29.70				11		4.81	30.00		
Remarks	<u> </u>		,			<u> </u>	 ŀ	Scale (appro	Logged k) By
								1:50 Figure 05-	AM • No. 271.SHR05

Glo	over	Sit	e Ir	ıve	stigatio	ns	Ltd	Site FINGAL LANDFILL PROJECT	Borehole Number SHR05
Machine : A Flush : A Core Dia : 7	AIR-MIST		_	Diamete	er sed to 22.00m	Ground	Level (mOD) 34.81	Client FINGAL COUNTY COUNCIL	Job Number 05-271
Method : \$	SYMMETRI CORING	X &	Location 31		E 256785.2 N		7/05/2005- 3/05/2005	Engineer RPS-MCOS	Sheet 4/6
Depth (m)	TCR	SCR	RQD	FI	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend Mater
	95	91	45					Strong medium bedded dark grey fine grained micritic LIMESTONE interbedded with thin bands of moderately strong, moderately weak thinly laminated very dark grey shaley mudstone at wide intervals.	
30.80					1			Joint Set 1 closely to very closely spaced, dipping 40-50 degrees, smooth planar, tight, clean, bedding parallel.	
	100	57	50	11				Joint Set 2 closely spaced dipping 70 degrees, smooth planar to rough planar, tight to moderately open, clean or thin quartz mineral coating.	
31.70					_			Joint Set 3 medium to widely spaced dipping 60 degrees, smooth planar, tight, clean with patchy quartz mineralisation.	
				3				Medium to widely spaced continuous calcite veins 10-30mm thick, dipping 60 degrees, planar	
32.50				37					
32.80	97	85	73	3			<u>-</u>		
	97	00	/3					A any other use.	
33.60				10			E only	Katiyo	
34.10 34.20				40 70	-		outposes di		
34.50 34.60						petic	STOT TOUT		
				3	Ç ^c	institut C	(10.00)	31.70m: All jointing becomes medium to widely spaced, except in shaley mudstone	
35.30					atolo	,0X		spaced, except in snaley mudstone	
				6	Consent of	:			
36.10 36.30	100	94	75	Non-li	ntact				
36.50				24					
				8		:	TTTT	34.10m: Incipient fractures dipping sub-vertically, rough, stepped, open, filled with cohesive dark grey	
								gouge gouge	
37.70					19/05/2005:6.00m				
					20/05/2005			37.80m: 20mm thick calcite vein dipping 75 degrees, planar	
				10					
	100	87	60				<u>-</u> - - -		
20.50							<u>-</u>		
39.50 39.60				30 4		E 10	10.00		
40.05 Remarks	<u> </u>			L		-5.19	40.00	, Scale	Logged By
								(approx)	By AM
								Figure	No.
								05-27	1.SHR05

Glo	over	Sit	e Ir	ıve	stigatio	ns	Ltd	Site FINGAL LANDFILL PROJECT		Borehole Number SHR05
Machine : A Flush : A Core Dia: 7	AIR-MIST		1 -	Diamete 8mm cas	er sed to 22.00m		Level (mOD) 34.81	Client FINGAL COUNTY COUNCIL		Job Number 05-271
Method : S		IX &	Locatio		E 256785.2 N	Dates	7/05/2005- 3/05/2005	Engineer RPS-MCOS	-	Sheet 5/6
Depth (m)	TCR	SCR	RQD	FI	Field Records	Level (mOD)	Depth (m) (Thickness)	Description		Legend Nater
40.20 40.30				Non-l	ntact			Strong medium bedded dark grey fine grained micritic LIMESTONE interbedded with thin bands of moderate strong, moderately weak thinly laminated very dark gr shaley mudstone at wide intervals.	elv i	
				18				Joint Set 1 closely to very closely spaced, dipping 40- degrees, smooth planar, tight, clean, bedding parallel. Joint Set 2 closely spaced dipping 70 degrees, smoot	Ih	
41.40	100	88	55	5				planar to rough planar, tight to moderately open, clear thin quartz mineral coating. Joint Set 3 medium to widely spaced dipping 60 degre smooth planar, tight, clean with patchy quartz	n or	
42.00	-							mineralisation. Medium to widely spaced continuous calcite veins 10-30mm thick, dipping 60 degrees, planar		
	100	92	55	12			andalalalalalalalalalalalalalalalalalala	To-somm thick, dipping ou degrees, planar		
44.35 44.60				Non-li		aspection	A LOW			T T T T T T T T T T T T T T T T T T T
45.10				12	Consent of co	inspection	(10.00)			
46.30	100	98	72	8						
48.20				5						
49.40 49.90	100	95	75	24		-15.19	50.00			
Remarks						-13.13	50.00	S	Scale oprox)	Logged By
									1:50	AM
								Fi	igure No 05-271	o. .SHR05

Glo	ver	Sit	e Ir	ıve	stigatio	ns	Ltd	Site FINGAL LANDFILL PROJECT	Borehole Number SHR05
Machine: K Flush : A Core Dia: 7	IR-MIST			Diamete 8mm cas	er sed to 22.00m	Ground	Level (mOD) 34.81	Client FINGAL COUNTY COUNCIL	Job Number 05-271
 Method : S		X &	Locatio 31		256785.2 N		7/05/2005- 3/05/2005	Engineer RPS-MCOS	Sheet 6/6
Depth (m)	TCR	SCR	RQD	FI	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Kater Marker
51.30				6	20/05/2005:6.00m 23/05/2005			Strong medium bedded dark grey fine grained micritic LIMESTONE interbedded with thin bands of moderately strong, moderately weak thinfy laminated very dark grey shaley mudstone at wide intervals. Joint Set 1 closely to very closely spaced, dipping 40-50 degrees, smooth planar, tight, clean, bedding parallel. Joint Set 2 closely spaced dipping 70 degrees, smooth planar to rough planar, tight to moderately open, clean or thin quartz mineral coating. Joint Set 3 medium to widely spaced dipping 60 degrees, smooth planar, tight, clean with patchy quartz mineralisation.	
53.80	96	96	72	7			(6.00)	Medium to widely spaced continuous calcite veins 10-30mm thick, dipping 60 degrees, planar spaced continuous calcite veins 10-30mm thick, dipping 60 degrees, planar spaced continuous calcite veins 10-30mm thick, dipping 60 degrees, planar spaced continuous calcite veins 10-30mm thick, dipping 60 degrees, planar spaced continuous calcite veins 10-30mm thick, dipping 60 degrees, planar spaced continuous calcite veins 10-30mm thick, dipping 60 degrees, planar spaced continuous calcite veins 10-30mm thick, dipping 60 degrees, planar spaced continuous calcite veins 10-30mm thick, dipping 60 degrees, planar spaced continuous calcite veins 10-30mm thick, dipping 60 degrees, planar spaced continuous calcite veins 10-30mm thick, dipping 60 degrees, planar spaced continuous calcite veins 10-30mm thick, dipping 60 degrees, planar spaced continuous calcite veins 10-30mm thick, dipping 60 degrees, planar spaced continuous calcite veins 10-30mm thick, dipping 60 degrees, planar spaced continuous calcite veins 10-30mm thick, dipping 60 degrees, planar spaced continuous calcite veins 10-30mm thick, dipping 60 degrees, planar spaced continuous calcite veins 10-30mm thick, dipping 60 degrees, planar spaced continuous calcite veins 10-30mm thick, dipping 60 degrees, planar spaced continuous calcite veins 10-30mm thick, dipping 60 degrees, planar spaced continuous calcite veins 10-30mm thick, dipping 60 degrees, planar spaced continuous calcite veins 10-30mm thick, dipping 60 degrees, planar spaced continuous calcite veins 10-30mm thick, dipping 60 degrees, planar spaced continuous calcite veins 10-30mm thick, dipping 60 degrees, planar spaced continuous calcite veins 10-30mm thick, dipping 60 degrees, planar spaced continuous calcite veins 10-30mm thick, dipping 60 degrees, dipping 60 degrees, dipping 60 degrees, dipping 60 degrees, dipping 60 degrees, dipping 60 degrees, dipping 60 degrees, dipping 60 degrees, dipping 60 degrees, dipping 60 degrees, dipping 60 degrees, dipping 60 degrees, dipping 60 degrees, dipping 60 degrees,	
55.00	100	100	73	7	Consent of S	sinspection opytight	thin the required	gr ^o	
56.00					23/05/2005	-21.19	56.00	Complete at 56.00m	
Remarks Borehole tern	ninated at s	scheduled	depth.					Scale (approx) 1:50 Figure N	Logged By
								05-27	1.SHR05

		Type ONITOI	RING	Dimensi Intern Diame	ions al Diameter of Tube [A] = 50 eter of Filter Zone = 100 mm) mm			Client FINGAL C	YTNUO	COUNC	IL	V18			Job Numbe
				Location 31793	1 35.3 E 256785.2 N	Ground 3	Level (m	.	Engineer	os	74. **				:	Sheet 1/
gend	Water	Instr (A)	Level (mOD)	Depth (m)	Description				Gi	roundwa	ter Strik	es Durin	g Drilling			
<u> O</u> s.	5	(A)	34.31	0.50	Concrete			D 41-	11				Read			Τ_
	V 1					Date	Time	Depth Struck (m)	Casing Depth (m)	Inflo	w Rate	5 min	10 min	15 min	20 min	De Se
	D2							1.50 8.60		Slight F Slight F	Flow Flow					
	*2			į					Gro	oundwat	er Obse	rvations	During D	rilling	'	
<u>ټ</u>									Start of SI	hift			E	nd of Sh	nift	
						Date	Time	Depth Hole (m)	Casing Depth (m)	Water Depth (m)	Water Level (mOD)	Time	Depth Hole (m)	Casing Depth (m)	Water Depth (m)	Wa Le (m
о × ×						17/05/05 19/05/05 20/05/05 23/05/05		24.90 37.70		÷.	(24.90 37.70 51.30 56.00	(111)	6.00 6.00	28
					Cement/Bentonite Grout		100	esonly.	any other i	:						
						~ ~ ×	on Purel Switch rec [A] Type	·	Instru	ıment Gı	oundwa	ter Obse	rvations			
						150		trument	ΓΔΊ							
					Consent	Date	Time	Depth (m)					Rema	ırks		
												·			,	
			-11.14	45.95	Sand Filter											
	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	00000000000000000000000000000000000000	-13.14 -14.84	47.95 49.65	Gravel Filter											
	200 0 00 0 00 00 00 00 00 00 00 00 00 00	\$2.50 \$2.50 \$3.50			Slotted Standpipe											
井	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6		-20.74	55.55												

Glover Sit	e In	ve	stigatio	ns	Ltd	Site FINGAL LANDFILL PROJECT		Borehole Number PW01
Boring Method OPEN HOLE DRILLING TO 21.00m SYMMETRIX DRILLING TO	Casing I 305 200 150	Diameter omm case omm case omm case	r ed to 21.20m ed to 30.00m ed to 36.40m	ì	Level (mOD) 56.32	Client FINGAL COUNTY COUNCIL		Job Number 05-271
30.00m OPEN HOLE DRILLING TO 36.40m	Location 317	1 478 E 2	57409 N	Dates 08	8/09/2005	Engineer RPS-MCOS		Sheet 1/4
Depth (m) Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description		Mater Puesen
Remarks 305mm Ones Hole Drilling to 21			Consent	Lingle to of the state of the s	(10.00)	DRILLER'S DESCRIPTION: CLAY	Scale	
305mm Open Hole Drilling to 21.2 200mm Symmetrix Drilling from 2 150mm Open Hole Drilling from 3 Descriptions are from driller's loga Airlifted for 2 hours. 125mm Standpipe installed to 33.	1.20m - 30. 0.00m - 36. s.	00m. 40m.					Scale (approx) 1:50 Figure N	TR o. 1.PW01

Glo	ver Sit	e Ir	ive	stigatio	ns	Ltd	Site FINGAL LANDFILL PROJECT		Boreho Numbe	r
21 00m	nod E DRILLING TO X DRILLING TO	Casing 30 20 15	Diamete 5mm cas 0mm cas 0mm cas	r ed to 21.20m ed to 30.00m ed to 36.40m		Level (mOD) 56.32	Client FINGAL COUNTY COUNCIL		Job Numbe 05-27	
30.00m	E DRILLING TO	Locatio 31	n 7478 E 2	57409 N	Dates 08	3/09/2005	Engineer RPS-MCOS		Sheet 2/4	•
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description		Legend	Water
Remarks				Consent	38.12	18.20	DRILLER'S DESCRIPTION: Very gravelly CLAY	Scale (approx)	Logged	
								Figure N 05-27	o. 1.PW01	

Glo	ver Sit	e Ir	ive	stigatio	ns	Ltd	Site FINGAL LANDFILL PROJECT		Borehole Number PW01
21.00m	hod E DRILLING TO X DRILLING TO	Casing 30 20 15	Diamete 5mm cas 0mm cas 0mm cas	r ed to 21.20m ed to 30.00m ed to 36.40m		Level (mOD) 56.32	Client FINGAL COUNTY COUNCIL		Job Number 05-271
l 30.00m	E DRILLING TO	Location 31	n 7478 E 2	57409 N	Dates 08	3/09/2005	Engineer RPS-MCOS		Sheet 3/4
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description		Legend Nate
Remarks Borehole coll	ansed hetween 22.5	Om - 36 4	Om during	Consent of C		(1.20) 21.20 21.20 30.00)	DRILLER'S DESCRIPTION: SAND and GRAVEL DRILLER'S DESCRIPTION: Black ROCK (LIMES)	TONE)	Logged
Borehole colla	apsed between 22.5	0m - 36.4	0m during	pumping test.				Scale (approx)	Logged By
								1:50	TR
								Figure N 05-27	o. 1.PW01

Glo	ver Sit	e Ir	ive	stigatio	ns	Ltd	Site FINGAL LANDFILL PROJECT	Borehole Number PW01
21.00m	hod E DRILLING TO X DRILLING TO	Casing 30 20 15	Diamete 5mm cas 0mm cas 0mm cas	er sed to 21.20m sed to 30.00m sed to 36.40m	Ground	Level (mOD) 56.32	Client FINGAL COUNTY COUNCIL	Job Number 05-271
l 30.00m	E DRILLING TO	Locatio 31		257409 N	Dates 08	3/09/2005	Engineer RPS-MCOS	Sheet 4/4
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend Mater
Remarks Borehole term	ninated at scheduled	depth.		Consent of C	inspection of the second	36.40	Complete at 36.40m	Logged
							1:50 Figure N 05-27	TR No. 71.PW01

Installa PUMF	ation	Туре	1 0	Dimens	ions al Diameter of Tube [A] = eter of Filter Zone = 168 r	: 125 mm	L		FINGAL L Client FINGAL C				· · · · · · · · · · · · · · · · · · ·			Job Numbe 05-27
				Locatio	n 78 E 257409 N		Level (m	nOD)	Engineer RPS-MCC	os						Sheet 1/1
egend	Water	Instr (A)	Level (mOD)	Depth (m)	Description				G	roundwa	ater Strik	es Durin	ıg Drilling			
		V	1			Date	Time	Depth Struck	Casing Depth (m)	Inflo	w Rate		Read	lings		Dep Seal (m
								(m)	(m)			5 min	10 min	15 min	20 min	(n
									Gre	oundwat	ter Obse	rvations	During D	rilling		
						Date			Start of S		Water			End of SI		T Mai
					Natural Ground	08/09/05	Time	Depth Hole (m)	Casing Depth (m)	Water Depth (m)	Water Level (mOD)	Time	Depth Hole (m) 36.40	Casing Depth (m)	Water Depth (m)	Wat Lev (mO
						or instit	on Philips on Philips				roundwa	ter Obse	rvations			
					Cont	Ziti O Date	Ins	trument	[A]				Rema	ırks		
0.00					Con	Dute	Time	Depth (m)	Level (mOD)							
			26.82	29.50		23/09/05		3.70	52.62							
	100 00 00 00 00 00 00 00 00 00 00 00 00	200 000 000 000 000 000 000 000 000 000			Well Screen				: 10 10 10 10							
			22.82	33.50	Bottom Fill											
弄	4		19.92	36.40												

Glo	ver Sit	e Ir	ive	stigatio	ns	Ltd	Site FINGAL LANDFILL PROJECT		Borehole Number PW02
15.15m SYMMETRI	hod E DRILLING TO X DRILLING TO	Casing 30 20 16	Diamete 5mm cas 0mm cas 8mm cas	r ed to 15.15m ed to 21.20m ed to 31.50m	!	Level (mOD) 35.90	Client FINGAL COUNTY COUNCIL		Job Number 05-271
l 21.20m	E DRILLING TO	Locatio 31	n 8166 E 2	57185 N	Dates 06 26	6/09/2005- 6/09/2005	Engineer RPS-MCOS		Sheet 1/4
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description		Legend Mater
Pomento				Consent	inspector	(10.00)	DRILLER'S DESCRIPTION: Dark brown CLAY was and and gravel	rith some	
Tournm diam	eter Open Hole Drilli eter Symmetrix Drilli eter Open Hole Drilli	ng to 15.1 ng to 21.2 ng to 30.3	5m 0m. 0m.					Scale (approx)	Logged By
Descriptions Airlifted for 2	from driller's logs. hours.							1:50 Figure No	TR o.
									1.PW02

Glo	ver Sit	e Ir	ive	stigatio	ns	Ltd	Site FINGAL LANDFILL PROJECT		Borehole Number PW02
15.15m	nod E DRILLING TO K DRILLING TO	Casing 30 20 16	Diamete 5mm cas 0mm cas 8mm cas	r ed to 15.15m ed to 21.20m ed to 31.50m	Ground	Level (mOD) 35.90	Client FINGAL COUNTY COUNCIL		Job Number 05-271
21.20m	DRILLING TO	Locatio 31	n 8166 E 2	57185 N	Dates 06 26	6/09/2005- 6/09/2005	Engineer RPS-MCOS		Sheet 2/4
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description		Vater Water
				Moderate Flow(1) at 11.20m.	21.40 Linguistical Constitution of the Constit	(3.80)	DRILLER'S DESCRIPTION: SAND and GRAVEL DRILLER'S DESCRIPTION: Soft black ROCK	me	▼1 × 1 × 1 × 1 × 1 × 1 × 1 × 1 × 1 × 1 ×
Remarks					15.90	20.00			l or set
							Sca (appr		Logged By
							Figi	ure No	

Glo	ver Sit	e Ir	ive	stigatio	ns	Ltd	Site FINGAL LANDFILL PROJECT		Borehole Number PW02
15.15m	ood EDRILLING TO ODRILLING TO	Casing 30 20 16	Diamete 5mm cas 0mm cas 8mm cas	r ed to 15.15m ed to 21.20m ed to 31.50m		Level (mOD) 35.90	Client FINGAL COUNTY COUNCIL		Job Number 05-271
21.20m	DRILLING TO	Locatio 31	n 8166 E 2	57185 N	Dates 06 26	/09/2005- /09/2005	Engineer RPS-MCOS		Sheet 3/4
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description		Legend kater
Remarks Borehole colla	psed between 22.40	Om - 31.50	Om. Bore	Consent of Consent of	inspection of the state of the	(10.00)	DRILLER'S DESCRIPTION: Soft black ROCK The standard of the st	Scale (approx)	Bogged by high property of the property of th
				2 4 23/3/		J. Diamotor		(approx)	TR
								Figure N	

Glo	ver Sit	e In	ve	stigatio	ns	Ltd	Site FINGAL LANDFILL PROJECT		Borehole Number PW02
15.15m	nod E DRILLING TO C DRILLING TO	Casing 30 20 16	Diamete 5mm cas 0mm cas 8mm cas	r ed to 15.15m ed to 21.20m ed to 31.50m	Ground	1 Level (mOD) 35.90	Client FINGAL COUNTY COUNCIL		Job Number 05-271
21.20m	E DRILLING TO	Locatio 31	n 8166 E 2	57185 N	Dates 04 29	6/09/2005- 6/09/2005	Engineer RPS-MCOS		Sheet 4/4
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description		Vater Water
Remarks				26/09/2005	4.40 A.40 A.40 A.40	this the this this this this this this this this	Complete at 31.50m		
Remarks Borehole term 125mm diame	ninated at scheduled eter standpipe install	depth. ed to 31.5	60 m .					Scale (approx)	Logged By
								1:50 Figure N	TR
									1.PW02

			r Si		nvestigati	ons	Lt	d	Site FINGAL L	.ANDFILI	L PROJE	СТ			1	Borehole Number PW02
		on Type G WELL		Dimensi Intern Diame	ons al Diameter of Tube [A] = 129 eter of Filter Zone = 168 mm	5 mm			Client FINGAL C	COUNTY	COUNC	IL				Job Number 05-271
				Location 31816	n 6 E 257185 N	Ground 3	Level (n 35.90	nOD)	Engineer RPS-MCC	os						Sheet 1/1
Legenc	Water	Instr (A)	Level (mOD)	Depth (m)	Description				G	roundwa	ater Strik	es Durir	ng Drilling	 3	I	
° · · · · · · · ·								Depth Struci	Casing				Read	lings		Depth
						Date	Time	11.20	Casing Depth (m)		w Rateate Flow	5 min	10 min	15 min	20 min	Depth Sealed (m)
					Groundwater Observations During Drilling Start of Shift End of Shift											
	1				Date Time Depth Hole (m) Depth Casing Depth (m) Depth (m											
• • • • •									. [Water Level (mOD)	Time	(m)	Casing Depth (m)	Water Depth (m)	Water Level (mOD)
	∇1			İ	Natural Ground			sonly.	any other v	\$0.						
						eeti	ON PHIPOS	aired			roundwa	ter Obse	ervations			
						of the st.	[A] Type			,						
						COBY	Ins	trument	t [A]							
					Consent	Date	Time	Depth (m)	Level (mOD)				Rema	arks		
						26/09/05		6.30	29.60							
			13.40	22.50												
			:		Well Screen											
			4.40	31.50												
Remarl Uprigh End ca	t co	ver fitted.	se of stand	dpipe.					1							

Glo	ver Sit	e Ir	ives	stigatio	ns	Ltd	Site FINGAL LANDFILL PROJECT		Boreho Numbe PW0	er
15.15m	nod E DRILLING TO C DRILLING TO	1 20	0mm case	r ed to 15.15m ed to 24.24m ed to 34.90m		Level (mOD) 34.09	Client FINGAL COUNTY COUNCIL		Job Numbe 05-27	
24.24m OPEN HOLE 34.90m	DRILLING TO	Locatio 31	n 7966 E 25	56753 N		7/09/2005- 3/09/2005	Engineer RPS-MCOS		Sheet 1/4	
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description		Legend	Water
Remarks				Consent	ing the o	(10.00)	DRILLER'S DESCRIPTION: Dark brown to blac with some gravels			
Remarks 305mm diameter open hole drilling to 15.15m. 200mm diameter Symmetrix Drilling to 24.24m. 150mm diameter Open Hole Drilling to 33.30m. Descriptions are from driller's logs. Airlifted for 2 hours.								Scale (approx) 1:50 Figure No. 05-271	Logged By TR/HD o. 1.PW03	

Glo	ver Sit	e Ir	ive	stigatio	ns	Ltd	Site FINGAL LANDFILL PROJECT	Borehole Number PW03
15.15m	hod E DRILLING TO X DRILLING TO	Casing 30 20 16	Diamete 5mm cas 0mm cas 8mm cas	ed to 15.15m sed to 24.24m sed to 34.90m	Ground	Level (mOD) 34.09	Client FINGAL COUNTY COUNCIL	Job Number 05-271
24.24m	E DRILLING TO	Locatio 31		56753 N	Dates 07 23	7/09/2005- 3/09/2005	Engineer RPS-MCOS	Sheet 2/4
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend vater
Remarks				Strong Flow(1) at 15.15m.	21.97	hthlistilitilitilitilitilitilitilitilitilit	DRILLER'S DESCRIPTION: Dark brown to black CLAY with some gravels DRILLER'S DESCRIPTION: SAND and GRAVEL A start of the	□ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □
Remarks							Scale (approx	Logged By
							1:50 Figure 05-	TR/HD • No. 271.PW03

Glo	ver Sit	e Ir	ive	stigatio	ns	Ltd	Site FINGAL LANDFILL PROJECT		Borehole Number PW03
15.15m	hod E DRILLING TO X DRILLING TO	Casing 30 20 16	Diameter 5mm cas 0mm cas 8mm cas	r ed to 15.15m ed to 24.24m ed to 34.90m		Level (mOD) 34.09	Client FINGAL COUNTY COUNCIL		Job Number 05-271
24.24m	E DRILLING TO	Locatio 31	n 7966 E 2	56753 N	Dates 07 23	7/09/2005- B/09/2005	Engineer RPS-MCOS		Sheet 3/4
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description		Legend Nater
				Consentor	12.88	(1.21)	DRILLER'S DESCRIPTION: SAND and GRAVI		×
Remarks					4.09	30.00			
Borehole coll	apsed between 24.9	5m - 34.9	0m. Redr	illed on 23/9/05 from	24.95m to	34.90m usin	g 168mm diameter symmetrix.	Scale (approx)	Logged By
								1:50 Figure N 05-27	TR/HD lo. 1.PW03

Glo	ver Sit	e Ir	ive	stigatio	ns	Ltd	Site FINGAL LANDFILL PROJECT	Borehole Number PW03
15.15m	nod E DRILLING TO X DRILLING TO	Casing 30 20 16	Diamete 5mm cas 0mm cas 8mm cas	r ed to 15.15m ed to 24.24m ed to 34.90m	1	Level (mOD) 34.09	Client FINGAL COUNTY COUNCIL	Job Number 05-271
24.24m OPEN HOLE 34.90m	E DRILLING TO	Locatio 31	n 7966 E 2	56753 N	Dates 07 23	7/09/2005- 3/09/2005	Engineer RPS-MCOS	Sheet 4/4
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Regend Nate
Remarks				23/09/2005 Consent of C	12 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	(4.90) A 4.90 A 4.90	DRILLER'S DESCRIPTION: Black Rock (limestone) Complete at 34.90m	
Remarks Borehole tern 125mm diame	ninated at scheduled eter standpipe instal	d depth. led to 33.5	50m.				Scale (approx) Logged By
							1:50 Figure	TR/HD
								271.PW03

Installa	dion Type	е	⁻ Si	Dimensi			Lte		FINGAL L	ANDFILL	_ PROJE	СТ ———				PW03
FUIVII	ING WELL			Diame	al Diameter of Tube [A] = 1 eter of Filter Zone = 168 mr	25 mm n			FINGAL C	YTNUO	COUNC	IL				Number 05-271
			ì	Location 31796	n 66 E 256753 N		Level (m 34.09	iOD)	Engineer RPS-MCC	os						Sheet 1/1
egend	(A)	tr	Level (mOD)	Depth (m)	Description				G	roundwa	ater Strik	es Durin	ng Drilling	a		
	1		(,	(,				Depth					Read			Danti
		1				Date	Time	Depth Struck (m)	Casing k Depth (m)	Inflo	w Rate	5 min		15 min	20 min	Depth Seale (m)
								15.15		Strong	Flow					
									Gre	oundwat	ter Obse	rvations	During D	rilling		
						Start of Shift End of Shift Date Depth Casing Water Water Depth Casing Water										
						23/09/05	Time	Depth Hole (m)	(m)	Water Depth (m)	Water Level (mOD)	Time	Depth Hole (m) 34.90	Casing Depth (m)	Water Depth (m)	Water Level (mOD)
	∇1				Natural Ground		#00°	es only.	and other w	Ø.						
						رين المحادث ال	on Putpot	<u> </u>			roundwa	ter Obse	rvations			
						∠ Yhn€t.	[A] Type	:								
					۱	of copyris	Ins	trument	t [A]							
					Consent	Date	Time	Depth (m)	Level (mOD)				Rema	ırks		
						23/09/05		5.50	28.59							
Remarks			-0.81	25.90	Well Screen											

Appendix C
Exploratory trial pit logs

Glo	over Sit	e In	vesti	gatio	ns	Ltd	Site FINGAL LANDFILL PRO	JECT	Nun	I Pit nber P01
Excavation 4 TONNE T EXCAVATO	FRACKED	Dimens	ions		i	Level (mOD 37.99	Client FINGAL COUNTY COUN	ICIL	Job Nun	
		Locatio 31	n 8065.8 E 256880).6 N	Dates 29	0/05/2005	Engineer RPS-MCOS		She	et 1/1
Depth (m)	Sample / Tests	Water Depth (m)	Field Re	cords	Level (mOD)	Depth (m) (Thickness)	Description	Lege	Water Pu
0.50	J1				37.79	0.20	TOPSOIL MADE GROUND: Firm be gravelly CLAY with occase cobbles, plastic. Sand is sub-rounded to sub-angu	prown slightly sandy slightly sional sub-rounded to sub-ar fine to coarse. Gravel is llar fine to coarse	ngular	
1.00	B1									
2.00	B2					(2.80)				
2.50 3.00	J3				04.00					
3.50	B3		29/05/2005:DRY	<u>(</u>	34.99	(0.50)	to coarse. Gravel i	rown sandy gravelly CLAY. S s sub-angular to sub-rounde	Sand d fine	
					ection	3.50 a.50 a.50 a.50 a.50 a.50 a.50 a.50 a	complete at 3.50m			
				ÇĞ.	insperor					
				Consentor						
									į	
Plan .						.	Remarks			
			, ,				Pit sides stable on completi	on.		
					•		cale (approx)	Logged By	Figure No.	
							1:50	TR/HD	05-271.TP	'01

GI	over \$	Site I	nvesti	gatio	ns	Ltd	Site FINGAL LANDFILL PRO	JECT		Trial Pit Number TP02
	on Method TRACKED	Dimer	nsions			Level (mOD) 38.19	Client FINGAL COUNTY COUNTY	NCIL		Job Number 05-271
		Locat	ion 18062.4 E 25684	43.4 N	Dates 29	9/05/2005	Engineer RPS-MCOS			Sheet 1/1
Depth (m)	Sample / T	ests Wate Dept (m)	r 1 Field F	Records	Level (mOD)	Depth (m) (Thickness		Description		Legend Xate
Depth (m) 0.50 1.00 1.50 2.00 3.50 Plan	J1 B1 J2 B2 J3 B3 J4			Records	38.09	3.50 (3.40)	TOPSOIL MADE GROUND: Firm to CLAY with occasional cometal, boulders, concrete sub-rounded to sub-angular control of the contr	prown and grey sandy gravel bbles, brick, wood, ash, plase. Sand is fine to coarse. Gra ular fine to coarse		Legend M
	·									
	•					·	cale (approx)	Logged By TR/HD	Figure	No. 71.TP02

Glo	over S	ite Ir	nvestig	atio	ns	Ltd	Site FINGAL LANDFILL PRO	JECT	Trial Num TP	ıber
Excavation 4 TONNE T EXCAVATO	racked .	Dimens	sions			Level (mOD) 37.89	Client FINGAL COUNTY COUN	ICIL	Job Num 05-	
		Location 31	on 8051.7 E 256817.1	N	Dates 29	/05/2005	Engineer RPS-MCOS		Shee	et /1
Depth (m)	Sample / Tes	s Water Depth (m)	Field Rec	ords	Level (mOD)	Depth (m) (Thickness)	ı	Description	Leger	Water
0.50	J1 B1				37.79	0.10	TOPSOIL MADE GROUND: Firm be gravelly CLAY with occas cobbles. Sand is fine to coars sub-angular fine to coars	rown slightly sandy slightly ional sub-rounded to sub-ar oarse. Gravel is sub-rounde e	ngular d to	
1.50 2.00	J2 B2				36.39	1.50	I slightly gravelly CLAY wit	rown and grey slightly sand h occasional sub-rounded to boulders, wood, brick and p) (20000000	
2.50	J3 B3				35.39	2.50	MADE GROUND: Loose silty sandy fine to coarse	to medium dense brown slig GRAVEL	ghtly	
3.50	J4		29/05/2005:DRY	For co	34.39	3.50	complete at 3.50m			XXXX
Plan .		•			٠	.	Remarks Pit sides collapsing from 0.8	50m - 2.00m.		
		•					-			
		•								
		•								
		•			٠	s	cale (approx) 1:50	Logged By TR/HD	Figure No. 05-271.TP0	03

Glover Site Investigation				ions	Ltd	Site FINGAL LANDFILL PRO	JECT	Trial Pit Number TP04
	on Method TRACKED OR	Dimens	sions	1	Level (mOD) 37.34	Client FINGAL COUNTY COUN	CIL	Job Number 05-271
		Locatio 31	n 8089.7 E 256788 N	Dates 29	9/05/2005	Engineer RPS-MCOS		Sheet 1/1
Depth (m)	Sample / Test	s Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)		Description	Legend kater
0.50	J1			37.24	0.10	I sandy slightly gravelly CL	riable brown and grey slightly AY with occasional cobbles, e to coarse. Gravel is sub-rourse	brick XXXXXI I
1.00	B1				<u>-</u>			
1.50	J2				(2.40)			
2.00	B2							
2.50	J3			34.84	2.50	MADE GROUND: Firm b CLAY. Sand is fine to coa sub-angular fine to mediu	rown friable sandy slightly gr rse. Gravel is sub-rounded to m	avelly o
3.00	В3				(1.00)	₹ê.		
3.50	J4		29/05/2005:DRY	33.84	3.50 3.50	Complete at 3.50m		
Plan .			Consec	To he cho		Remarks		
		•		. ,	.	Pit sides stable on completi	on.	
		٠						
		•						
					. s	cale (approx)	Logged By	Figure No.
						1:50	TR/HD	05-271.TP04

Glo	over Si	te Ir	ives	tigatio	ons	Ltd	Site FINGAL LANDFILL PRO	JECT	Trial Num TP	ıber
Excavation 4 TONNE T EXCAVATO	RACKED	Dimen	sions		Ground	l Level (mOD) 38.34	Client FINGAL COUNTY COUN	ICIL	Job Num	
		Locatio	on 18102 E 2568	326.6 N	Dates 2	9/05/2005	Engineer RPS-MCOS		Shee	e t /1
Depth (m)	Sample / Tests	Water Depth (m)	Fiel	d Records	Level (mOD)	Depth (m) (Thickness)		Description	Leger	Water
0.50 1.00 1.50 2.00 2.50 3.00 3.50	J1 B1 J2 B2 J3 B3 J4	(m)	29/05/2005	Consento	37.84	3.50 3.50 3.50 3.50 3.50 3.50	MADE GROUND: Firm g gravelly CLAY with occas mortar, plastic and wood	rey slightly friable sandy sligional cobbles, concrete, brid		
						· s	cale (approx)	Logged By	Figure No. 05-271.TP0	05

Glo	over Sit	e In	vestigat	ions	Ltd	Site FINGAL LANDFILL PRO	JECT	Trial Pit Number TP06
Excavation 4 TONNE T EXCAVATO	RACKED	Dimens	ions	Ground	d Level (mOD 37.90	Client FINGAL COUNTY COUN	ICIL	Job Number 05-271
		Locatio 31	n 8116.4 E 256867.7 N	Dates	29/05/2005	Engineer RPS-MCOS		Sheet 1/1
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Vater Water
0.50	J1			37.8	0.10	MADE GROUND: Firm b a i gravelly CLAY with occas	orown friable slightly sandy sl sional cobbles. Sand is fine to unded to sub-angular fine to c	o
1.00	B1			37.1	0.80	MADE GROUND: Firm g slightly gravelly CLAY wit wood, brick. Sand is fine	rey slightly friable slightly sa h occasional cobbles, plastic to coarse. Gravel is sub-rour	ndy
1.50	J2					to sub-angular fine to coa	rrse	
2.00	B2				(2.70)			
2.50	J3							
3.00	B3					. 115°.		
3.50	J4		29/05/2005:DRY	34.4	3.50	Complete at 3.50m		
				Sectif	3.50 All and a second a second and a second and a second and a second and a second and a second and a second and a second and a second and a second			-
				FO High				
			Consent	ot	ليليليليل			
			Č		<u>-</u>			
					<u></u> 			
Plan .						l Remarks		
						Pit sides stable on completi	on.	
						Scale (approx) 1:50	Logged By TR/HD	Figure No. 05-271.TP06

Glo	over S	Site Ir	vesti	gatio	ns	Ltd	Site FINGAL LANDFILL PRO	JECT	Trial Pit Number TP07
Excavation 4 TONNE T EXCAVATO	RACKED	Dimens	iions			Level (mOD) 38.14	Client FINGAL COUNTY COUN	CIL	Job Number 05-271
		Locatio	n 8140.6 E 256827	.7 N	Dates 29	/05/2005	Engineer RPS-MCOS	***	Sheet
Depth (m)	Sample / T	ests Water Depth (m)	Field Re	cords	Level (mOD)	Depth (m) (Thickness	<u> </u>	Description	Legend
Depth (m) 0.50 1.00 2.50 3.00 3.50 Plan	J1 B1 J2 B2 J3 B3 J4	ests Water Depth (m)	29/05/2005:DRY		38.04 36.74	(1.30) 1.40 2.10) 3.50 3.50 3.50 3.50 3.50	TOPSOIL MADE GROUND: Firm b gravelly CLAY with cobble concrete. Sand is fine to c sub-angular fine to coarse MADE GROUND: Firm g slightly gravelly CLAY with plastic	rown friable slightly sandy sles, brick, metal bar, wood, coarse. Gravel is sub-rounded and sub-rounded are yellowed and coasional cobbles, wood, and coasional c	ightly ed to
-		•	·			S	cale (approx) 1:50	Logged By TR/HD	Figure No. 05-271.TP07

Glo	over Si	te Ir	nvesti	gatio	Ltd	Site FINGAL LANDFILL PRO	JECT	Trial Pit Number TP08	
Excavation 4 TONNE T EXCAVATO	RACKED	Dimens	sions	<u> </u>		Level (mOD) 37.91	Client FINGAL COUNTY COUN	I CIL	Job Number 05-271
		Location 31	on 18134.2 E 256798	3.6 N	Dates 29	9/05/2005	Engineer RPS-MCOS		Sheet 1/1
Depth (m)	Sample / Tests	Water Depth (m)	Field Re	ecords	Level (mOD)	Depth (m) (Thickness)		Description	Vater V
0.50 1.00 1.50 2.00 2.50 3.00 3.50	J1 B1 J2 B2 J3 B3 J4		29/05/2005:DR	Y Gorsent of Co	37.81 36.91	1.00 1.00 3.50 3.50 3.50	brick. Sand is fine to coal sub-angular fine to coars MADE GROUND: Firm of slightly gravelly CLAY with wood and brick. Sand is sub-rounded to sub-angular for the sub	grey slightly friable slightly sa h occasional cobbles, plastic fine to coarse. Gravel is	ndv
							Pit sides stable on complet	ion.	
		•		•					
		•	•	•					
•									
						. s	cale (approx)	Logged By	Figure No.
							1:50	TR/HD	05-271.TP08

Glo	over Si	te Ir	rvestig	atio	ns	Ltd	Site FINGAL LANDFILL PRO	JECT		Trial Pit Number TP09
Excavation 4 TONNE EXCAVAT	TRACKED	Dimens	sions		l.	Level (mOD) 37.44	Client FINGAL COUNTY COUNTY	ICIL		Job Number 05-271
		Locatio 31	on 8129.6 E 256772.8	3 N	Dates 30)/05/2005	Engineer RPS-MCOS			Sheet 1/1
Depth (m)	Sample / Tests	Water Depth (m)	Field Reco	ords	Level (mOD)	Depth (m) (Thickness		Description	L	.egend Mater
						(0.40)	MADE GROUND: Firm of containing occasional sm	orange brown sandy gravelly sooth angular cobbles	CLAY	
0.50	J1				37.04	0.40	MADE GROUND: Firm to sandy CLAY containing concrete, cobbles, conct-	o stiff greyish brown gravelly occasional plastic, wood, brick ete blocks, wire, rubber pipes	k,	
1.00	B1					<u>-</u> 		,,		
1.50	J2									
2.00	B2					(3.10)				
2.50	J3									
3.00	B3					- - - - -				
3.50	J4		30/05/2005:DRY		33.94	3.50	other use.			
						- ges di	complete at 3.50m			
					کۍ:	OIL LOCALITECT				
				ŝ	inspection					
				at of co	BALL	3.50 A.50 A.50 A.50 A.50 A.50 A.50 A.50 A				
			(Consent of		- - - - - -				
						- - - - -				
				,						
Plan .						.	Remarks			
							Pit sides stable on complet	ion.		
					•			Ţ		
·				. ,	•	. \$	cale (approx) 1:50	Logged By TR/HD	Figure N 05-27	No. '1.TP09

Location Dates 30/05/2005 Engineer RPS-MCOS 1/1	Glo	ver Sit	e In	vestigati	ons	Ltd	Site FINGAL LANDFILL PROJ	JECT	Trial Pit Number TP10
Sample / Tests	4 TONNE T	RACKED	Dimensio	ns				CIL	Job Number 05-271
10.0			1	95.1 E 256743.8 N	Dates 30)/05/2005	1		1
3.5.00 0.10 0.50 0.10 0.50 0.10 0.50	Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	С	Description	Legend A
Plan Remarks Trial pit continually collapsing below 2.80m. Scale (approx) Logged By Figure No.	1.00 1.50 2.00	B1 J2 B2			35.96	0.10	TOPSOIL MADE GROUND: Buildin brick, gas canister, plastic	piping, metal, wood, wire.	
Trial pit continually collapsing below 2.80m. Scale (approx) Logged By Figure No.			3	0/05/2005:DRY Consent of	33.06	3.00 3.00 3.00 3.00	Complete at 3.00m		
	Plan .					. 1	Remarks		
							Trial pit continually collapsin	ng below 2.80m.	
	•	- ·	•						
		•	•						
1·ki) IU/UN 05.074 TD40						·			l i

Glo	over S	ite Ir	nvestigati	Site FINGAL LANDFILL PROJECT Trial Pit Number TP11				
Excavation 4 TONNE T EXCAVATO	racked	Dimens	sions		Level (mOD) 36.38	Client FINGAL COUNTY COUN	CIL	Job Number 05-271
		Locatio	on 18209.3 E 256792.1 N	Dates 30	0/05/2005	Engineer RPS-MCOS		Sheet 1/1
Depth (m)	Sample / Tes	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	С	escription	Legend Nater
0.50 1.00 1.50 2.00 2.50 3.00 3.50	J1 B1 J2 B2 J3 B3 J4		30/05/2005:DRY	36.33 36.18	2.50 (1.00) 3.50 (1.01) 3.50 (1.01)	MADE GROUND: Loose medium GRAVEL contain metal, decaying organic, of metal, decaying organic, decaying	ing cinders, plastic bags, we concrete blocks, newspaper	
						Pit sides stable on completion	on.	
					. s	cale (approx)	Logged By	Figure No.
						1:50	TR/HD	05-271.TP11

Glover Site Investigations							Site FINGAL LANDFILL PROJ	ECT	Trial Pit Number TP12
Excavation 4 TONNE T EXCAVATO	RACKED	Dimens	ions			Level (mOD) 35.48	Client FINGAL COUNTY COUN	CIL	Job Number 05-271
		Locatio	n 8245.5 E 256851	.5 N	Dates 30)/05/2005	Engineer RPS-MCOS		Sheet
Depth (m)	Sample / Te	sts Water Depth (m)	Field Re	cords	Level (mOD)	Depth (m) (Thickness)	D	escription	Legend Nater
0.50 1.00 1.50 2.00 2.50 3.00 3.50	J1 B1 J2 B2 J3 B3 J4		30/05/2005:DRY	Consent of co	35.38 33.98 31.98	1.50	MADE GROUND: Loose medium GRAVEL contain red brick, wood, concrete with 0.25 inch reinforcing	black sandy clayey fine to ing cinders, metal, plastic ba with reinforcing, crockery m	
Plan .	•			•		•	Remarks Pit sides unstable below 1.5	0m.	
	•								
	•								
						. s	cale (approx)	Logged By	Figure No.
							1:50	TR/HD	05-271.TP12

Glo	over Si	te Ir	vest	igatio	Ltd	Site FINGAL LANDFILL PROJ	ECT	Trial Pit Number TP13	
Excavation 4 TONNE 1 EXCAVATO	TRACKED	Dimens	sions			_ evel (mOD) 33.39	Client FINGAL COUNTY COUN	CIL	Job Number 05-271
		Locatio	on 8284.1 E 256	781.5 N	Dates 30/	05/2005	Engineer RPS-MCOS		Sheet 1/1
Depth (m)	Sample / Tests	Water Depth (m)	Field	Records	Level (mOD)	Depth (m) (Thickness)	D	Description	Legend to
0.50	J1 B1				33.29	0.10	TOPSOIL MADE GROUND: Soft to gravelly CLAY containing cobbles. Gravel is sub-rou	firm orange brown to black occasional smooth, sub-rou unded fine to medium	sandy nded
2.00	J2 B2				31.19	2.20	Firm gravish brown sandy	CLAY containing occasiona	ul fine
2.50	J3				30.89	2.50	sub-rounded gravel	slightly gravelly CLAY. Grav	× * * * * * * * * * * * * * * * * * * *
3.00	B3 J4		30/05/2005:E		30.09	3.30 3.30 3.30 3.30 3.30 3.30 3.30	Complete at 3.30m		
Plan .						. 1	Remarks Pit sides stable on completion		
							i it sides stable off completion	zu.	
						. 5	Scale (approx)	Logged By	Figure No.
							1:50	TR/HD	05-271.TP13

Glover Site Investigations				ns	Ltd	Site FINGAL LANDFILL PROJ	JECT		Trial Pit Number TP14	
Excavatio 4 TONNE EXCAVAT	TRACKED	Dimens	sions			Level (mOD 32.35	Client FINGAL COUNTY COUN	CIL		Job Number 05-271
		Location 31	on 8267.2 E 256746	.5 N	Dates 30	/05/2005	Engineer RPS-MCOS			Sheet 1/1
Depth (m)	Sample / Tes	water Depth (m)	Field Re	cords	Level (mOD)	Depth (m) (Thickness	р С	escription		Kater Market
0.50 1.00 1.50	J1 B1 J2				32.15	0.20	TOPSOIL MADE GROUND: Soft re gravelly sandy CLAY cont sub-rounded cobbles	ddish brown to greyish brov aining occasional smooth	vvn	
2.00	B2				20.05	2.40	7 TOPSOIL			
2.503.00	J3				29.95 29.85	2.50	Firm greyish brown sandy occasional smooth sub-ro sub-rounded fine to media	gravelly CLAY containing unded cobbles. Gravel is um	7	× 2 × 0 × × × × 0
3.50	J4		30/05/2005:DRY	Consent of Co	28.85	3.50 office of the state of the	Complete at 3.50m			× ° · · · · · · · · · · · · · · · · · ·
Plan .				•			Remarks Pit sides stable on completion	on.		:
		٠		•						į
•		•								
•		٠		•		. 5	Scale (approx)	Logged By	Figure	
							1:50	TR/HD	05-2	71.TP14

Glo	over Si	ite Ir	vesti	gatio	ns	Ltd	Site FINGAL LANDFILL PRO	JECT	Trial Pit Number TP15
Excavatio 4 TONNE EXCAVAT	TRACKED	Dimens	ions		Ground	1 Level (mO E 31.71	Client FINGAL COUNTY COUN	ICIL	Job Number 05-271
		Locatio	n 8260.8 E 256697	′.8 N	Dates 30	0/05/2005	Engineer RPS-MCOS		Sheet 1/1
Depth (m)	Sample / Test	s Water Depth (m)	Field Re	cords	Level (mOD)	Depth (m) (Thickness	;)	Description	Legend Mater
					31.51	0.20	TOPSOIL MADE GROUND: Firm of CLAY containing occasion	lark brown slightly gravelly s nal smooth sub-angular cob	
0.50	J1							, and the second	
1.00	B1					2.10)		
1.50	J2								
2.00	B2				29.41				
2.50	J3				20.41		Firm to stiff greyish brown occasional smooth sub-ro sub-rounded fine to medi	n gravelly CLAY containing ounded cobbles. Gravel is um	× · · · · · · · · · · · · · · · · · · ·
3.00	В3					(1.20	115E.		× · · · · · · · · · · · · · · · · · · ·
3.50	J4		30/05/2005:DR\	<u>′</u>	28.21	3.50	Complete at 3.50m		*x o
						Set reditied	\$		
					inspection Tylight of	De l'Or			
				<i>څ</i> ۀ د ر	opyright				
				Consentol					
				:					
Plan						Ē,	Remarks		
		•					Pit sides stable on completi	on.	
		٠							
						. ,			
			, ,						
							Scale (approx) 1:50	Logged By TR/HD	Figure No. 05-271.TP15