

Appendix 5

Groundwater Monitoring Borehole Logs

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Glover Site Investigations Ltd			Site		Borehole Number			
SCOTCH CORNER LANDFILL, LICENCE COMPLIANCE			1AR					
Boring Method		Dates		Client		Sheet		
Shell & Auger		23/10/02 - 23/10/02		MONAGHAN COUNTY COUNCIL		1/1		
Hole Diameters		Location		Engineer		Ground Level (mOD)		
200mm Cased to 2.80m		E274925 N325218		M. C. O'SULLIVAN & CO. LTD		129.25		
Description	Depth m (Thickness)	Legend	Level (mOD)	Samples / Tests			Water Level _A	Daily Progress
				Depth (m)	Sample	Test		
TOPSOIL	(0.20)		128.05					
MADE GROUND: Red brick and stone	0.20							
Firm grey slightly sandy gravelly CLAY containing some cobbles and boulders	(0.90)		127.15				Seepage at 1.10m.	
	1.10							
	(1.50)							
	2.60		125.65					
Broken SANDSTONE	(0.20)		125.45				1.10m:23/10/02	
END OF BOREHOLE 2.8m	2.80							
Remarks Chiselling from 2.60m to 2.80m for 1 hour.				SAMPLE / TEST KEY J Disturbed Sample B Bulk Sample U Undisturbed Core Sample P Piston Sample V Field Vane Test W Water Sample SPT Standard Penetration Test CPT Cone Penetration Test () Penetration < 300mm			Scale 1:50	Logged By RB
				Figure No. 4524-1AR			Borehole Number 1AR	

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Glover Site Investigations Ltd

Site	SCOTCH CORNER LANDFILL, LICENCE COMPLIANCE	Borehole Number	1AR
Client	MONAGHAN COUNTY COUNCIL	Job Number	4824
Engineer	M. C. O'SULLIVAN & CO. LTD	Sheet	1/1

Installation Type	GAS/GROUNDWATER STANDPIPE	Dimensions	Internal Diameter of Tube [A] = 50 mm Diameter of Filter Zone = 200 mm
Location	E274925 N325218	Ground Level (mOD)	138.25

Legend	Inst. [A]	Level (mOD)	Depth (m)	Description	Groundwater Strikes during Drilling											
					Date	Time	Depth Struck (m)	Casing Depth (m)	Inflow Rate	Readings				Depth Sealed (m)		
		128.15	0.10	Concrete			1.10		Seepage							
		127.75	0.50	Bentonite Seal												
		127.45	0.80	Gravel Filter												
		125.45	2.80	Slotted Standpipe												

Groundwater Observations During Drilling																
Date	Time	Depth Hole (m)	Casing Depth (m)	Water Depth (m)	Water Level (mOD)	Start of Shift				End of Shift						
						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)	
23/10/02												2.80		1.10	127.15	

Instrument Groundwater Observations									
Date	Time	Instrument [A]			Remarks				
		Depth (m)	Level (mOD)						
23/10/02		1.10	127.15						

Remarks
Upright lockable cover installed.
0.2m "stick up" of standpipe.

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Glover Site Investigations Ltd				Site		Borehole Number				
Machine : KLEMM Flush : AIR Bit Size : 150.00mm Method : ROTARY DTH				Dates		Client				
				Location		Engineer				
				17/10/02 - 17/10/02		MONAGHAN COUNTY COUNCIL				
				E275111 N325405		M. C. O'SULLIVAN & CO. LTD				
						Ground Level (mOD)				
						123.50				
Description	Depth m (Thickness)	Legend	Level (mOD)	Samples / Tests					Water Level	Daily Progress
				Depth (m)	TCR	SCR	RQD	FI		
FILL: Clay, Sandstone and cobbles	(7.00)									
Brown sandy gravelly CLAY containing cobbles and boulders	7.00 (0.70)		116.50							
SHALE	7.70 (0.30)		115.80							
END OF BOREHOLE 8.0m	8.00		115.50							
Remarks								Scale	Logged By	
								1:50	BB	
								Figure No.		
								4824.5A		
								Borehole Number	5A	

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Site: SCOTCH CORNER LANDFILL, LICENCE COMPLIANCE
 Borehole Number: **5A**

Installation Type
 GAS/GROUNDWATER STANDPIPE

Dimensions
 Internal Diameter of Tube [A] = 50 mm
 Diameter of Filter Zone = 150 mm

Client
 MONAGHAN COUNTY COUNCIL

Job Number
 4824

Location
 E275111 N325405

Ground Level (mOD)
 123.50

Engineer
 M. C. O'SULLIVAN & CO. LTD

Sheet
 1/1

Legend	Inst. [A]	Level (mOD)	Depth (m)	Description	Groundwater Strikes during Drilling										
					Date	Time	Depth Struck (m)	Casing Depth (m)	Inflow Rate	Readings				Depth Sealed (m)	
		123.30	0.20	Bentonite Seal											
		123.00	0.50	Concrete											
		122.50	1.00	Gravel Filter											
Groundwater Observations During Drilling															
					Start of Shift					End of Shift					
					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)
Instrument Groundwater Observations															
Inst. [A] Type:															
					Instrument [A]			Remarks							
					Date	Time	Depth (m)								Level (mOD)
		116.50	7.00												
		115.50	8.00	Bentonite Seal											

Remarks

Upright lockable cover installed.
 0.5m "stick up" of standpipe.

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Well Log

Project Scotch Corner				Hole No BH7A	
Job No i143/z1	Date 09-03-15 09-03-15	Ground Level (m) 126.84	Co-Ordinates () E 275,335.0 N 325,161.8		
Contractor Dempsey Drilling Ltd				Sheet 1 of 1	

STRATA						
Reduced Level	Depth (Thickness)	Casing Details	Backfill	PIPE SIZE & TYPE	Strata	Strata Description
	(2.00)	Bentonite Backfill		Plain PVC Casing (0 - 2m) 90mm diameter		Dark brown organic sandy silt/clay
124.84	2.00					Pale grey clay with subangular cobbles & boulders
		Gravel Backfill		Slotted PVC Casing (2 - 5m) 90mm diameter		Weathered rock with occasional clay filled fissures. Water strike at 2mbgl.
121.84	5.00					

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RPS WELL LOG BH10.GPJ AGS 3_1.GDT 30/6/15

GENERAL REMARKS	
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All dimensions in metres Scale 1:37.5	Client Monaghan County Council	Method/ Plant Used	Logged By Gerry Baker
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Well Log

Project Scotch Corner				Hole No BH8A	
Job No i143/zl	Date 03-03-15 03-03-15	Ground Level (m) 128.45	Co-Ordinates () E 275,320.3 N 325,319.9		
Contractor Dempsey Drilling Ltd					Sheet 1 of 1

STRATA						
Reduced Level	Depth (Thickness)	Casing Details	Backfill	PIPE SIZE & TYPE	Strata	Strata Description
	(1.00)	Bentonite Backfill				soft brown slightly sandy CLAY with occasional gravels.
127.45	1.00					soft brown slightly sandy CLAY with occasional large cobbles.
126.95	1.50	Gravel Backfill		Plain PVC Casing (0 - 1.5m) 90mm diameter		soft dark brown CLAY with frequent fine gravels and occasional medium to large.
	(3.00)			Slotted PVC Casing (1.5 - 4.5m) 90mm diameter		Waste. Mainly black plastic, strong hydrocarbon odour.
123.95	4.50					stiff grey CLAY with pale brown mottling.

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RPS WELL LOG BH10.GPJ AGS 3_1.GDT 7/7/15

GENERAL REMARKS						
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All dimensions in metres Scale 1:50	Client Monaghan County Council	Method/ Plant Used	Logged By Niamh Rogan		
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