

Glover Site Investigations Ltd				Site CORRANURE LANDFILL WASTE LICENCE REVIEW COUNTY CAVAN			Trialp Number TP1	
Boring Method Trial Pit		Dates 12/05/03 - 12/05/03		Client CAVAN COUNTY COUNCIL			Sheet 1/1	
Plant Tracked Excavator EX200		Location AS PLAN		Engineer MC O'SULLIVAN & CO LTD			Ground Level (mOD)	
Description	Depth m (Thickness)	Legend	Level (mOD)	Samples / Tests			Water Level *	Daily Progress
				Depth (m)	Sample	Test		
MADE GROUND: Soft to firm brown coarse gravelly sandy CLAY fill	(1.10)							
Firm brown grey coarse gravelly sandy CLAY with some cobbles and occasional boulders, thin intermittent silty sand lenses	1.10 (1.70)			2.50 2.50	J B			
Stiff grey coarse gravelly sandy CLAY with some cobbles	2.80 (3.90)			3.00 3.00 4.50 4.50	J B J B			
END OF TRIAL PIT 6.70m	6.70			6.50 6.50	J B			dry:12/05/03
Plan	Remarks							
Scale 1:50			Logged By TR		Figure No. 5156.TP1		Trialp Number TP1	

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Glover Site Investigations Ltd				Site		Trialpit Number		
Boring Method Trial Pit		Dates 12/05/03 - 12/05/03		Client CAVAN COUNTY COUNCIL		Sheet 1/1		
Plant Tracked Excavator EX200		Location AS PLAN		Engineer MC O'SULLIVAN & CO LTD		Ground Level (mOD)		
Description	Depth m (Thickness)	Legend	Level (mOD)	Samples / Tests			Water Level *	Daily Progress
				Depth (m)	Sample	Test		
MADE GROUND: Soft to firm brown coarse gravelly sandy CLAY fill	(0.60)							
Firm mottled grey brown gravelly sandy CLAY with some organic material	0.60 1.30			1.00-1.90 1.00-1.90	J B			
Soft grey brown gravelly sandy CLAY	1.90 (0.60)			2.00-2.50 2.00-2.50	J B			
Firm to stiff grey coarse gravelly CLAY with many cobbles and occasional boulders	2.50 (1.00)							
Stiff grey gravelly CLAY with many cobbles	3.50 (0.50)							
END OF TRIAL PIT 4.00m	4.00			4.00 4.00	J B			dry: 12/05/03
Plan		Remarks						
Scale 1:50		Logged By TR		Figure No. 5156.TP2		Trialpit Number TP2		

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Site
CORRANURE LANDFILL WASTE LICENCE REVIEW
COUNTY CAVAN
Trialpit Number
TP3

Boring Method
Trial Pit

Dates
12/05/03 - 12/05/03

Client
CAVAN COUNTY COUNCIL

Sheet
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Plant
Tracked Excavator EX200

Location
AS PLAN

Engineer
MC O'SULLIVAN & CO LTD

Ground Level (mOD)

Description	Depth m (Thickness)	Legend	Level (mOD)	Samples / Tests			Water Level *	Daily Progress
				Depth (m)	Sample	Test		
MADE GROUND: Soft to firm brown cobbly coarse gravelly sandy CLAY fill	(1.00)			0.00-1.00	B			
Firm grey coarse gravelly sandy CLAY with some cobbles and boulders	1.00			1.00-2.00	B			
	(2.50)			2.00-2.50	B			
Firm grey to grey-green coarse gravelly sandy CLAY with some cobbles and occasional boulders	3.50			3.50-4.00	B			
END OF TRIAL PIT 4.80m	4.80							dry: 12/05/03

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



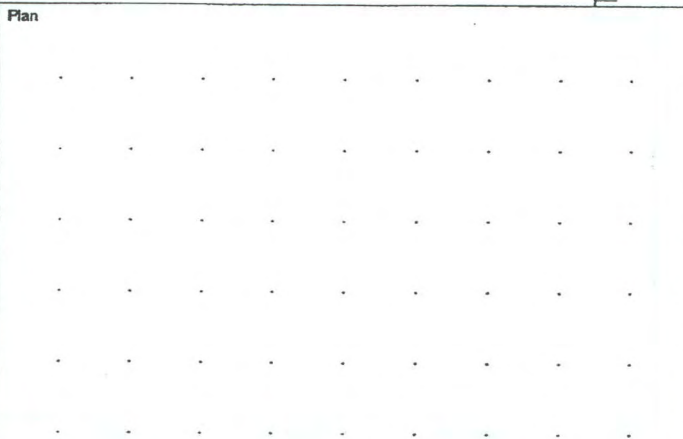
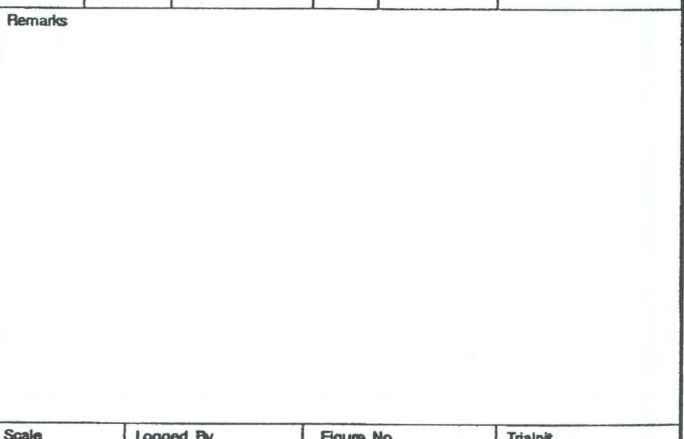
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Remarks

Scale 1:50	Logged By TR	Figure No. 5156.TP3	Trialpit Number TP3
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Glover Site Investigations Ltd

Glover Site Investigations Ltd				Site			Trialpit Number	
Boring Method Trial Pit		Dates 12/05/03 - 12/05/03		CORRANURE LANDFILL WASTE LICENCE REVIEW COUNTY CAVAN			TP4	
Plant Tracked Excavator EX200		Location AS PLAN		Client CAVAN COUNTY COUNCIL			Sheet 1/1	
				Engineer MC O'SULLIVAN & CO LTD			Ground Level (mOD)	
Description	Depth m (Thickness)	Legend	Level (mOD)	Samples / Tests			Water Level *	Daily Progress
				Depth (m)	Sample	Test		
Light brown TOPSOIL	(0.40)			0.00-1.00 0.00-1.00	J B			
Soft to firm mottled grey brown coarse sandy gravelly CLAY	0.40 (0.70)							
Soft to firm brown grey coarse gravelly sandy CLAY with some cobbles and occasional boulders	1.10 (1.50)							
Firm grey coarse gravelly sandy CLAY with some cobbles and occasional boulders	2.60 (1.40)			3.00 3.00	J B			
END OF TRIAL PIT 4.00m	4.00			4.00 4.00	J B		dry: 12/05/03	
Plan		Remarks						
								
		Scale 1:50		Logged By TR		Figure No. 5156.TP4		Trialpit Number TP4

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Site
CORRANURE LANDFILL WASTE LICENCE REVIEW
COUNTY CAVAN

Trialpit Number
TP5

Boring Method
Trial Pit

Dates
12/05/03 - 12/05/03

Client
CAVAN COUNTY COUNCIL





Sheet
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Plant
Tracked Excavator EX200

Location
AS PLAN

Engineer
MC O'SULLIVAN & CO LTD

Ground Level (mOD)

Description	Depth m (Thickness)	Legend	Level (mOD)	Samples / Tests			Water Level *	Daily Progress
				Depth (m)	Sample	Test		
Light brown TOPSOIL	(0.40)							
Soft to firm mottled grey brown coarse sandy gravelly CLAY	0.40			1.10	J			
	(1.50)			1.10	B			
Stiff green brown coarse gravelly sandy CLAY with some cobbles and occasional boulders	1.90			2.50	J			
	(1.10)			2.50	B			
Firm green grey coarse gravelly sandy CLAY with some cobbles	3.00			4.80	J			
	5.60			4.80	B			
END OF TRIAL PIT 5.60m	5.60							dry:12/05/03

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Plan

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Remarks

Scale 1:50	Logged By TR	Figure No. 5156.TP5	Trialpit Number TP5
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Glover Site Investigations Ltd				Site CORRANURE LANDFILL WASTE LICENCE REVIEW COUNTY CAVAN			Trialpit Number TP6	
Boring Method Trial Pit		Dates 12/05/03 - 12/05/03		Client CAVAN COUNTY COUNCIL			Sheet 1/1	
Plant Tracked Excavator EX200		Location AS PLAN		Engineer MC O'SULLIVAN & CO LTD			Ground Level (mOD)	
Description	Depth m (Thickness)	Legend	Level (mOD)	Samples / Tests			Water Level *	Daily Progress
				Depth (m)	Sample	Test		
Light brown TOPSOIL	(0.40)							
Soft to firm mottled grey brown coarse sandy gravelly CLAY	0.40 (0.45) 0.85							
Soft to firm grey brown coarse sandy gravelly CLAY	(1.25)			1.00 1.00	J B			
Firm grey coarse gravelly CLAY with some cobbles	2.10 (0.90)			2.00 2.00	J B			
Stiff green grey coarse gravelly CLAY with some cobbles	3.00 (1.70)			3.00 3.00	J B			
END OF BOREHOLE 4.70m	4.70			4.50 4.50	J B			dry:12/05/03
Plan				Remarks				
Scale 1:50		Logged By TC	Figure No. 5156.TP6		Trialpit Number TP6			

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Glover Site Investigations Ltd

Site
CORRANURE LANDFILL WASTE LICENCE REVIEW
COUNTY CAVAN
Trialpit Number
TP7

Boring Method
Trial Pit

Dates
12/05/03 - 12/05/03

Client
CAVAN COUNTY COUNCIL





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Plant
Tracked Excavator EX200

Location
AS PLAN

Engineer
MC O'SULLIVAN & CO LTD

Ground Level (mOD)

Description	Depth m (Thickness)	Legend	Level (mOD)	Samples / Tests			Water Level *	Daily Progress
				Depth (m)	Sample	Test		
Light brown TOPSOIL	(0.30)							
Soft to firm mottled grey brown coarse sandy gravelly CLAY	0.30 (0.90)			1.00 1.00	J B			
Soft to firm brown grey coarse gravelly sandy CLAY with occasional cobbles	1.20 (1.10)			2.00 2.00	J B			
Firm green grey coarse gravelly sandy CLAY with some cobbles	2.30 (1.60)			3.40 3.40	J B			
END OF TRIAL PIT 3.90m	3.90							dry:12/05/03

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Remarks

Scale 1:50
Logged By TR
Figure No. 5156.TP7
Trialpit Number **TP7**

Glover Site Investigations Ltd

Site
CORRANURE LANDFILL WASTE LICENCE REVIEW
COUNTY CAVAN
Trialpit Number TP8

Boring Method
Trial Pit

Dates
12/05/03 - 12/05/03

Client
CAVAN COUNTY COUNCIL

Sheet
1/1

Plant
Tracked Excavator EX200

Location
AS PLAN

Engineer
MC O'SULLIVAN & CO LTD

Ground Level (mOD)

Description	Depth m (Thickness)	Legend	Level (mOD)	Samples / Tests			Water Level *	Daily Progress
				Depth (m)	Sample	Test		
Light brown TOPSOIL	(0.30)							
Fine orange brown TOPSOIL	0.30							
	0.50							
Soft to firm mottled grey brown coarse sandy gravelly CLAY	(1.10)							
	1.60							
Soft to firm brown coarse gravelly sandy CLAY	(1.00)							
	2.60			2.50	J			
				2.50	B			
Firm to stiff green grey coarse gravelly sandy CLAY with some cobbles	(1.40)			3.00	J			
				3.00	B			
	4.00							
END OF TRIAL PIT 4.00m								dry:12/05/03

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Plan

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Remarks

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Scale 1:50	Logged By TR	Figure No. 5156.TP8	Trialpit Number TP8
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Glover Site Investigations Ltd

Site
CORRANURE LANDFILL WASTE LICENCE REVIEW
COUNTY CAVAN
Trialpit Number
TP9

Boring Method
Trial Pit
Dates
12/05/03 - 12/05/03
Client
CAVAN COUNTY COUNCIL
Sheet
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Plant
Tracked Excavator EX200
Location
AS PLAN
Engineer
MC O'SULLIVAN & CO LTD
Ground Level (mOD)

Description	Depth m (Thickness)	Legend	Level (mOD)	Samples / Tests			Water Level *	Daily Progress
				Depth (m)	Sample	Test		
Dark brown peaty TOPSOIL	(0.50)							
MADE GROUND: Light grey CLAY with some organic material	0.50			0.50-1.30	J			
	(0.80)			0.50-1.30	B			
Light brown spongy PEAT with fine fibrous organic material	1.30							
	(0.40)							
Soft grey brown CLAY with a little organic material	1.70			2.00	J			
	(1.10)			2.00	B			
	2.80							
Blue grey stiff sandy gravelly CLAY	(1.20)			3.50	J			
	4.00			3.50	B			
END OF BOREHOLE 4.00m								Log: 12/05/03

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Plan	Remarks	Scale 1:50	Logged By TR	Figure No. 5156.TP9	Trialpit Number TP9

Glover Site Investigations Ltd			Site CORRANURE LANDFILL WASTE LICENCE REVIEW COUNTY CAVAN		Borehole Number GW1				
Boring Method Air Rotary		Dates 26/06/03 - 27/06/03		Client CAVAN COUNTY COUNCIL		Sheet 1/1			
Hole Diameters 150mm Cased to 20.00m		Location AS PLAN		Engineer MC O'SULLIVAN & CO LTD		Ground Level (mOD)			
Description	Depth m (Thickness)	Legend	Level (mOD)	Samples / Tests				Water Level *	Daily Progress
				Depth (m)	Sample	Test			
Stiff brown gravelly sandy CLAY with occasional cobbles	(10.00)	[Legend symbols]		2.50-2.95		SPT N=22			
				3.50-3.95		SPT N=24			
				4.50-4.95		SPT N=28			
				5.50-5.95		SPT N=32			
				6.50-6.95		SPT N=30			
				7.50-7.95		SPT N=39			
				8.50-8.95		SPT N=40			
				9.50-9.95		SPT N=79			
				10.50-10.95		SPT N=75			
				11.50-11.80		SPT (54)			
				12.50-12.72		SPT (46)			
13.50-13.95		SPT N=75		TCR	SCR	RQD	FI		
14.50-14.95		SPT N=52							
15.50-15.95		SPT N=70		10.00	20	12			
16.50-16.95		SPT N=91		13.00	8	0			
Very stiff dark brown organic SILT	(3.00)	[Legend symbols]		17.00					
				18.50	63	0			
Very stiff grey sandy CLAY	(4.30)	[Legend symbols]		20.00	66	0			
Moderately weak grey broken and jointed GREYWACKE	(2.70)	[Legend symbols]							
END OF BOREHOLE 20.00m									
Remarks Permeabilty tests at 2.50m, 5.00m and 10.00m Jar samples taken with every standard penetration test				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 1:200	Logged By DC
				Figure No. 5156.GW1				Borehole Number GW1	

Glover Site Investigations Ltd

Site
CORRANURE LANDFILL WASTE LICENCE REVIEW
COUNTY CAVAN

Borehole
Number
GW1

Installation Type
Standpipe

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

Client
CAVAN COUNTY COUNCIL

Job
Number
5156

Location
AS PLAN

Ground Level (mOD)

Engineer
MC O'SULLIVAN & CO LTD

Sheet
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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)	
		-1.00	1.00	Bentonite Seal							5 min	10 min	15 min	20 min	
				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)
		-7.70 -8.00	7.70 8.00	Piezometer Tip											
					Instrument Groundwater Observations										
					Inst. [A] Type :										
				Gravel Filter	Date	Instrument [A]			Remarks						
					Time	Depth (m)	Level (mOD)								
		-16.00	16.00	Bentonite Seal											
		-17.00	17.00	Gravel Filter											
		-18.00	18.00	Piezometer Tip											
		-20.00	20.00												

Remarks

Glover Site Investigations Ltd

Site
CORRANURE LANDFILL WASTE LICENCE REVIEW
COUNTY CAVAN
Borehole Number
GW2

Boring Method
Air Rotary
Dates
24/06/03 - 25/06/03

Client
CAVAN COUNTY COUNCIL
Sheet
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Hole Diameters
150mm Cased to 21.00m
Location
AS PLAN

Engineer
MC O'SULLIVAN & CO LTD
Ground Level (mOD)

Description	Depth m (Thickness)	Legend	Level (mOD)	Samples / Tests			Water Level *	Daily Progress
				Depth (m)	Sample	Test		
Stiff brown gravelly sandy CLAY with occasional cobbles	(9.00)			2.50-2.95		SPT N=14		
				3.50-3.95		SPT N=15		
				4.50-4.95		SPT N=14		
				5.50-5.95		SPT N=26		
				6.50-6.95		SPT N=32		
				7.50-7.95		SPT N=44		
				8.50-8.95		SPT N=46		
				9.50-9.95		SPT N=43		
Stiff grey gravelly very sandy CLAY	(4.00)			10.50-10.95		SPT N=56		
				11.50-11.95		SPT N=58		
				12.50-12.95		SPT N=58		
				13.50-13.95		SPT N=76		
Stiff light brown gravelly sandy CLAY with some cobbles and boulders	(3.50)			14.50-14.95		SPT N=113		
				15.50-15.95		SPT N=153		
				16.50-16.65		SPT (88)		
				16.50	TCR	SCR		
Moderately weak grey brown broken and fractured highly weathered SHALE	(4.50)			18.00	56	0		
				19.50	61	0		
				21.00	82	0		
END OF BOREHOLE 21.00m	21.00							

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Remarks
Carried out permeability test at 2.50m, 5.00m and 10.00m
Jar samples taken with every standard penetration test
Installed two standpipes in this borehole

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 1:200
Logged By DC
Figure No. 5156.GW2
Borehole Number **GW2**

Glover Site Investigations Ltd

Site
CORRANURE LANDFILL WASTE LICENCE REVIEW
COUNTY CAVAN

Borehole
Number
GW2

Installation Type
Standpipe

Dimensions
Internal Diameter of Tube [A] = 50 mm
Internal Diameter of Tube [B] = 19 mm
Diameter of Filter Zone = 150 mm

Client
CAVAN COUNTY COUNCIL

Job
Number
5156

Location
AS PLAN

Ground Level (mOD)

Engineer
MC O'SULLIVAN & CO LTD

Sheet
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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)	
		-1.00	1.00	Bentonite Seal							5 min	10 min	15 min	20 min	
Groundwater Observations During Drilling															
					Date	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)
				Gravel Filter											
Instrument Groundwater Observations															
Inst. [A] Type :															
		-11.70	11.70	Piezometer Tip	Date	Instrument [A]			Remarks						
		-12.00	12.00			Time	Depth (m)	Level (mOD)							
				Bentonite Seal											
		-17.00	17.00	Gravel Filter											
		-18.00	18.00												
				Piezometer Tip											
		-21.00	21.00												
Remarks															

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Glover Site Investigations Ltd			Site CORRANURE LANDFILL WASTE LICENCE REVIEW COUNTY CAVAN		Borehole Number GW3				
Boring Method Air Rotary		Dates 17/06/03 - 20/06/03		Client CAVAN COUNTY COUNCIL		Sheet 1/1			
Hole Diameters 150mm Cased to 21.50m		Location AS PLAN		Engineer MC O'SULLIVAN & CO LTD		Ground Level (mOD)			
Description	Depth m (Thickness)	Legend	Level (mOD)	Samples / Tests			Water Level *	Daily Progress	
				Depth (m)	Sample	Test			
Stiff brown gravelly sandy CLAY with occasional cobbles	(12.00)			2.50-2.95		SPT N=21			
				3.50-3.95		SPT N=34			
				4.50-4.95		SPT N=27			
				5.50-5.95		SPT N=44			
				6.50-6.95		SPT N=45			
				7.50-7.95		SPT N=41			
				8.50-8.95		SPT N=50			
				9.50-9.95		SPT N=67			
				10.50-10.95		SPT N=50			
				11.50-11.95		SPT N=50			
Stiff light brown gravelly sandy CLAY with occasional cobbles	(6.00)			12.50-12.95		SPT N=73			
				13.50-13.95		SPT N=80			
				14.50-14.95		SPT N=86			
				15.50-15.95		SPT N=78			
				16.50-16.95		SPT N=108			
Weak light grey broken and fractured fine to medium grained SANDSTONE	(3.50)			18.00	TCR	SCR	RQD	FI	
				18.50	0				
				20.00	65				
END OF BOREHOLE 21.50m	21.50			21.50	78				
Remarks Falling head permeability test at 2.50m, 5.00m and 10.00m Installed 50mm standpipe to 21.00m				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 1:200	Logged By DC
								Figure No. 5156.GW3	Borehole Number GW3

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Glover Site Investigations Ltd

Site
CORRANURE LANDFILL WASTE LICENCE REVIEW
COUNTY CAVAN
Borehole Number
GW3

Installation Type
Standpipe

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

Location
AS PLAN

Client
CAVAN COUNTY COUNCIL

Engineer
MC O'SULLIVAN & CO LTD

Job Number
5156

Sheet
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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)	
											5 min	10 min	15 min	20 min	
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)
				Bentonite Seal											
Instrument Groundwater Observations															
Inst. [A] Type :															
					Date	Instrument [A]			Remarks						
						Time	Depth (m)	Level (mOD)							
		-17.00	17.00												
		-18.00	18.00	Gravel Filter											
				Well Screen											
		-21.00	21.00												

Remarks

Glover Site Investigations Ltd				Site CORRANURE LANDFILL WASTE LICENCE REVIEW COUNTY CAVAN		Borehole Number RO1		
Boring Method Air Rotary		Dates 12/06/03 - 13/06/03		Client CAVAN COUNTY COUNCIL		Sheet 1/1		
Hole Diameters 150mm Cased to 21.00m		Location AS PLAN		Engineer MC O'SULLIVAN & CO LTD		Ground Level (mOD)		
Description	Depth m (Thickness)	Legend	Level (mOD)	Samples / Tests			Water Level *	Daily Progress
				Depth (m)	Sample	Test		
Stiff brown gravelly sandy CLAY with occasional cobbles	(6.50)			2.50-2.95		SPT N=25	Water strike at 7.00m.	
				3.50-3.95		SPT N=27		
				4.50-4.95		SPT N=30		
				5.50-5.95		SPT N=25		
				6.50-6.95		SPT N=69		
Stiff brown very sandy CLAY	(2.00)			7.50-7.95		SPT N=88		
Stiff brown gravelly sandy CLAY with occasional cobbles and boulders	(4.50)			8.50-8.95		SPT N=85		
				9.50-9.95		SPT N=82		
				10.50-10.95		SPT N=82		
Stiff brown very gravelly cobbly CLAY with numerous boulders	(4.50)			11.50-11.95		SPT N=94		
				12.50-12.95		SPT N=95		
				13.50-13.95		SPT N=104		
				14.50-14.80		SPT (66)		
Very weak brownish grey broken and jointed highly weathered SHALE	(3.50)			15.50-15.80		SPT (73)		
				16.50-16.80		SPT (80)		
				16.50	TCR	SCR	RQD	FI
				17.50	10	0		
END OF BOREHOLE 21.00m				17.50	73	0		
				18.50	68	0		
				19.50	56	0		
				21.00				

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Remarks
 Carried out falling head permeability tests at 2.50m, 5.00m and 10.00m
 Installed standpipes at 20.50m and 12.00m
 Rotary coring from 16.50m to 21.00m
 Jar samples taken with each standard penetration test

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 1:200	Logged By DC
Figure No. 5156.RO1	
Borehole Number RO1	

Glover Site Investigations Ltd

Site
CORRANURE LANDFILL WASTE LICENCE REVIEW
COUNTY CAVAN
Borehole Number
RO1

Installation Type Standpipe	Dimensions Internal Diameter of Tube [A] = 50 mm Internal Diameter of Tube [B] = 19 mm Diameter of Filter Zone = 150 mm	Client CAVAN COUNTY COUNCIL	Job Number 5156
	Location AS PLAN	Ground Level (mOD)	Engineer MC O'SULLIVAN & CO LTD

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)			
											5 min	10 min	15 min	20 min			
		-1.00	1.00	Bentonite Seal			7.00										
											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)		
				Gravel Filter													
											Instrument Groundwater Observations						
											Inst. [A] Type :						
		-11.70	11.70	Piezometer Tip	Date	Instrument [A]			Remarks								
		-12.00	12.00	Gravel Filter		Time	Depth (m)	Level (mOD)									
		-12.20	12.20	Gravel Filter													
				Bentonite Seal													
		-17.20	17.20	Gravel Filter													
		-17.50	17.50	Gravel Filter													
				Piezometer Tip													
		-20.50	20.50	Gravel Filter													
		-21.00	21.00	Gravel Filter													

Remarks

Glover Site Investigations Ltd				Site CORRANURE LANDFILL WASTE LICENCE REVIEW COUNTY CAVAN		Borehole Number RO2		
Boring Method Air Rotary		Dates 23/06/03 - 24/06/03		Client CAVAN COUNTY COUNCIL		Sheet 1/1		
Hole Diameters 150mm Cased to 15.00m		Location AS PLAN		Engineer MC O'SULLIVAN & CO LTD		Ground Level (mOD)		
Description	Depth m (Thickness)	Legend	Level (mOD)	Samples / Tests			Water Level *	Daily Progress
				Depth (m)	Sample	Test		
Stiff brown gravelly sandy CLAY with occasional cobbles	(8.00)							
Stiff light brown sandy CLAY	8.00 (1.00)							
Stiff brown very gravelly cobbly CLAY with numerous cobbles and boulders	9.00 (1.50)							
Very weak grey brown and brown highly weathered completely broken SHALE	10.50 (4.50)		10.50	TCR	SCR	RQD	FI	
			12.00	58	0			
			13.50	63	0			
			15.00	48	0			
END OF BOREHOLE 15.00m	15.00		15.00					
Remarks Carried out permeability tests at 2.50m, 5.00m and 10.00m				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 1:200	Logged By DC
						Figure No. 5156 .RO2	Borehole Number RO2	

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Site
CORRANURE LANDFILL WASTE LICENCE REVIEW
COUNTY CAVAN
Borehole Number
RO2

Installation Type Standpipe	Dimensions Internal Diameter of Tube [A] = 50 mm Internal Diameter of Tube [B] = 19 mm Diameter of Filter Zone = 150 mm	Client CAVAN COUNTY COUNCIL	Job Number 5156
	Location AS PLAN	Ground Level (mOD)	Engineer MC 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)		
				Bentonite Seal							5 min	10 min	15 min	20 min		
		-1.00	1.00		Groundwater Observations During Drilling											
					Start of Shift					End of Shift						
					Date	Time	Depth Hole (m)	Casing Depth (m)	Water Depth (m)	Water Level (mOD)	Date	Time	Depth Hole (m)	Casing Depth (m)	Water Depth (m)	Water Level (mOD)
				Gravel Filter												
					Instrument Groundwater Observations											
					Inst. [A] Type :											
					Date	Instrument [A]			Remarks							
					Time	Depth (m)	Level (mOD)									
		-9.90	9.90	Gravel Filter												
		-10.20	10.20	Gravel Filter												
				Bentonite Seal												
		-11.20	11.20	Gravel Filter												
		-11.50	11.50	Gravel Filter												
				Piezometer Tip												
		-14.50	14.50	Gravel Filter												
		-15.00	15.00	Gravel Filter												

Remarks

Glover Site Investigations Ltd

Site
CORRANURE LANDFILL WASTE LICENCE REVIEW
COUNTY CAVAN

Borehole Number
R04

Boring Method
Air Rotary

Dates
27/06/03 - 27/06/03

Client
CAVAN COUNTY COUNCIL

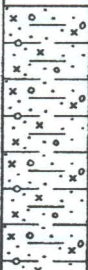


Sheet
1/1

Hole Diameters
150mm Cased to 9.00m

Location
AS PLAN

Engineer
MC O'SULLIVAN & CO LTD

Ground Level (mOD)

Description	Depth m (Thickness)	Legend	Level (mOD)	Samples / Tests				Water Level	Daily Progress
				Depth (m)	Sample	Test	Test		
Stiff brown gravelly sandy CLAY with occasional cobbles	(8.00)								
Weak brown and orange brown weathered broken fine grained SHALE	8.00 (1.00)		8.00	8.00	82	2			
END OF BOREHOLE 9.00m	9.00		9.00	9.00					

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Remarks
No installation

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
1:200

Logged By
DC

Figure No.
5156.R04

Borehole Number
R04