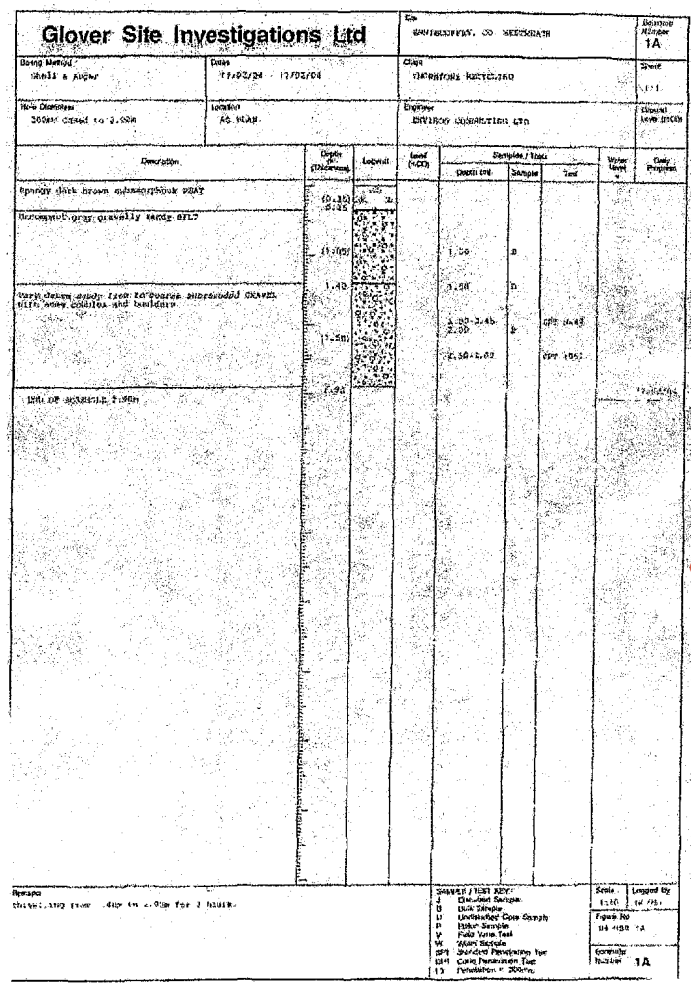

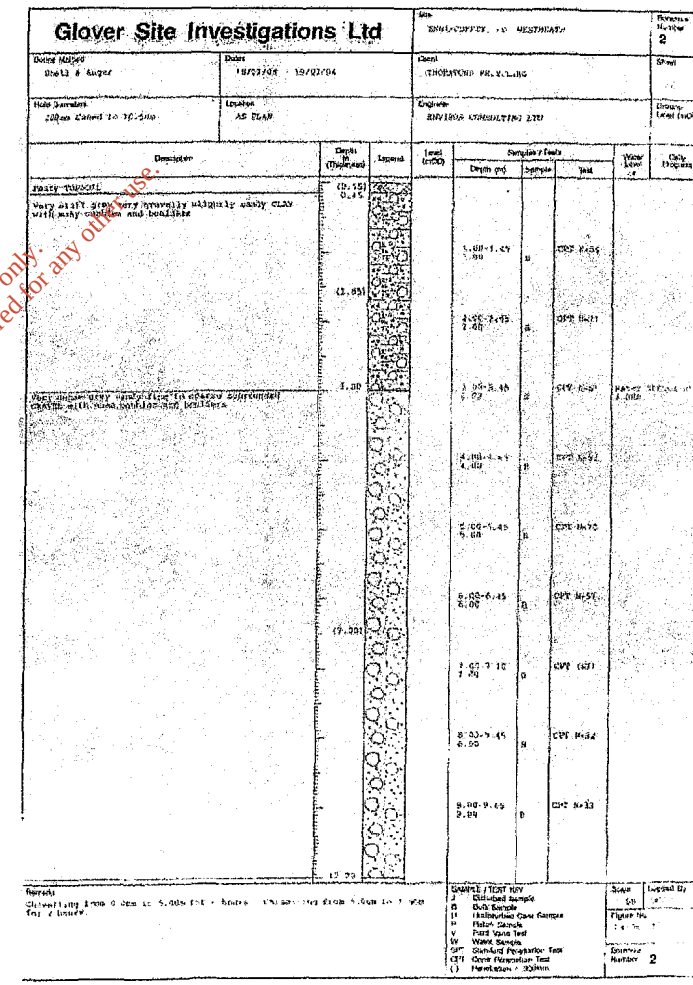

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Site: [illegible]			Borehole Number: 2
Boring Method: Shell & Auger	Dates: 18/02/04 - 19/02/04	Client: THORNTONS RECYCLING	Sheet: [illegible]
Hole Diameter: 200mm Cased to 10.50m	Location: AS PLAN	Engineer: ENVIROS CONSULTING LTD	Ground Level (mOD):

Description	Depth m (Thickness)	Legend	Level (mOD)	Sampling / Tests: Depth (m)	Sample	Test	Water Level	Daily Progress
Very dense grey sandy fine to coarse subrounded GRAVEL with some cobbles and boulders	(0.50) 10.50							
END OF BOREHOLE 10.50m								

Remarks: Groundwater encountered at 10.40m.

SAMPLE / TEST KEY
- J Disturbed Sample
- B Bulk Sample
- U Undisturbed Core Sample
- H High Sample
- V Field Vane Test
- W Water Sample
- SPT Standard Penetration Test
- CPT Cone Penetration Test
- ( ) Penetration > 300mm

Scale: 1:50 | Logged By: [illegible]

Engineer: [illegible]

Borehole Number: 2

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Site: [illegible]			Borehole Number: 2
Installation Type: STANDPIPE	Dimensions: Internal Diameter of Tube (A) = 100 mm; Diameter of Filter Zone = 200 mm	Client: THORNTONS RECYCLING	Job Number: [illegible]
	Location: AS PLAN	Ground Level (mOD):	Engineer: ENVIROS CONSULTING LTD
			Sheet: 1

Legend	Inst. (A)	Level (mOD)	Depth (m)	Description
		-0.50	0.50	Concrete
				Bentonite Seal
		-1.45	1.55	
				Sand Filter
		-2.00	2.00	
				Sand Filter
		-10.50	10.50	

Groundwater Strikes During Drilling

Date	Type	Depth Struck (m)	Casing Depth (m)	Inflow Rate	Readings: 5 min	10 min	15 min	20 min	Depth Sealed (m)
		9.42		Water Struck					

Groundwater Observations During Drilling

Date	Start of Shift: Time	Depth Hole (m)	Casing Depth (m)	Water Depth (m)	Water Level (mOD)	End of Shift: Time	Depth Hole (m)	Casing Depth (m)	Water Depth (m)	Water Level (mOD)
19/02/04							10.50			

Instrument Groundwater Observations

Inst. (A) Type:

Date	Instrument (A): Time	Depth (m)	Level (mOD)	Remarks

Remarks: 100mm slim PVC pipe with 4.2mm diameter slotted filter gravel. Bentonite cover fitted.

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Glover Site Investigations Ltd

Boring Method: Shell & Auger	Dates: 24/02/04 - 25/02/04	Client: THORNTONS RECYCLING	Borehole Number: 3
Hole Diameter: 200mm Cased to 14.40m	Location: AS PLAN	Engineer: ENVIRO CONSULTING LTD	Sheet: 1/1
			Ground Level (mOD):

Description	Depth m (Thickness)	Legend	Level (mOD)	Samples / Tests: Depth (m)	Sample	Test	Water Level	Daily Progress
Fasty TOPSOIL	(0.40) 0.40							
Stiff grey gravelly sandy CLAY	(11.30) 11.70			0.50-0.95 0.80	J	SPT N=41		
				0.40	B			
Medium dense grey sandy fine to coarse subrounded GRAVEL with occasional cobbles				1.70-2.15 1.70	D	SPT N=23		
				2.70-3.15 2.70	D	SPT N=24		
				4.20-4.65 4.20	D	SPT N=33		
	(7.70)			5.50-5.95 5.50	D	SPT N=37		
				7.20-7.65 7.20	D	SPT N=43		
Soft to firm grey very gravelly slightly sandy CLAY	9.40 (0.80) 10.20			9.50	B			
				10.00-10.30		SPT (60)		

Remarks

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: [illegible]

Figure No: 04-080 [illegible]

Borehole Number: 3

Glover Site Investigations Ltd

Boring Method: Shell & Auger	Dates: 24/02/04 - 25/02/04	Client: THORNTONS RECYCLING	Borehole Number: 3
Hole Diameter: 200mm Cased to 13.40m	Location: AS PLAN	Engineer: ENVIRO CONSULTING LTD	Sheet: 1/1
			Ground Level (mOD):

Description	Depth m (Thickness)	Legend	Level (mOD)	Samples / Tests: Depth (m)	Sample	Test	Water Level	Daily Progress
Soft to firm grey gravelly sandy CLAY	(0.20) 0.20			10.00	B			
Stiff grey gravelly sandy CLAY with occasional cobbles and boulders	(13.20)			11.50	B			
				13.00-13.30 13.00	D	SPT (50)		
END OF BOREHOLE 14.40m	13.40							

Remarks

Pneumatic from 0.00m to 12.00m for 3 hours. Standpipe installed to 13.40m.

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: [illegible]

Figure No: 04-080 [illegible]

Borehole Number: 3

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Site: ENNISCORTHY, CO. WEXFORD			Borehole Number: 3
Installation Type: STANDPIPE	Dimensions: Internal Diameter of Tube (A) = 100 mm; Diameter of Filter Zone = 202 mm	Client: THORNTONS RECYCLING	Job Number: 04-[illegible]
	Location: AS PLAN	Ground Level (mOD):	Engineer: ENVIROS CONSULTING LTD	Sheet: 1-1

Legend	Inst. (A)	Level (mOD)	Depth (m)	Description
		-0.30	0.30	Concrete
		-1.40	1.00	Bentonite Seal
		-2.40	2.00	Sand Filter
		-5.40	5.40	Sand Filter

Groundwater Strikes during Drilling

Date	Time	Depth Struck (m)	Casing Depth (m)	Inflow Rate	Readings 5 min	10 min	15 min	20 min	Datum Stated (m)

Groundwater Observations During Drilling

Date	Start of Shift: Time	Depth Hole (m)	Casing Depth (m)	Water Depth (mbl)	Water Level (mOD)	End of Shift: Time	Depth Hole (m)	Casing Depth (m)	Water Depth (mbl)	Water Level (mOD)
24/02/04 25/02/04				2.20			6.00 (3.80)		[illegible]	

Instrument Groundwater Observations

Inst. (A) Type:

Date	Instrument (A) Time	Depth (m)	Level (mOD)	Remarks

Remarks

The plot have PVC pipe with 4-mm diameter casing filter gravel. Borehole upright, cover fitted.

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Site: ENNISCORTHY, CO. WEXFORD			Borehole Number: 4A
Boring Method: Dry 4 Auger	Dates: 17/02/04 - 18/02/04	Client: THORNTONS RECYCLING	Sheet: 1
Hole Diameter: 100mm Cased to 10.00m	Location: AS PLAN	Engineer: ENVIROS CONSULTING LTD	Ground Level (mOD):

Description	Depth to (Thickness)	Legend	Level (mOD)	Samples / Tests: Depth (m)	Sample	Test	Water Level	Daily Progress
Spongy dark brown pseudo-fibrous PEAT	(1.40) 1.40			0.50 0.50-0.95	U			
Medium dense to dense grey sandy fine to coarse subrounded GRAVEL with occasional cobbles	(8.60) 10.00			1.50-1.95 1.50	B	CPT N=31		
				3.00-3.45 3.00	B	CPT N=34		
				4.50-4.95 4.50	B	CPT N=32		
				5.70-6.15 5.70	B	CPT N=28	4.40m 17/02/04 3.45m 18/02/04	
				7.00-7.45 7.00	B	CPT N=33	Water strike at 7.00m, rose to 3.80m in 10 mins.	
				9.30-9.95 9.50	B	CPT N=42		
END OF BOREHOLE 10.00m	10.00							

Remarks

Completed to 6.70m for 1 hour. Standpipe installed to 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 - Blows

Scale: 1:50 | Logged By: [illegible]

Figure No.: [illegible]

Borehole Number: 4A

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Glover Site Investigations Ltd

Site: ENNISCOFFEY, CO. WESTMEATH			Borehole Number: 4A
Installation Type: STANDPIPE	Dimensions: Internal diameter of Tube (A) = 50 mm; Diameter of Filter Zone = 200 mm	Client: THORNTONS RECYCLING	Job Number: 04 [illegible]
	Location: AS PLAN	Ground Level (mOD):	Engineer: ENVIRON CONSULTING LTD
			Scale: 1:1

Legend	Inst. (A)	Level (mOD)	Depth (m)	Description
		-0.30	0.30	Concrete
		-1.00	1.00	Medium/Fine Peat
		-1.50	1.50	Sand Filter
		-10.00	10.00	Slotted standpipe

Groundwater Strikes during Drilling

Date	Time	Depth Struck (m)	Casing Depth (m)	Inflow Rate	Readings 5 min	10 min	15 min	20 min	Depth Sealed (m)
		7.00		Water Present		1.40			

Groundwater Observations During Drilling

Date	Start of Shift: Time	Depth Hole (m)	Casing Depth (m)	Water Depth (m)	Water Level (mOD)	End of Shift: Time	Depth Hole (m)	Casing Depth (m)	Water Depth (m)	Water Level (mOD)
17/02/04 18/02/04				[illegible]			5.70 10.00		[illegible]	

Instrument Groundgas Observations

Inst. (A) Type:

Date	Instrument (A) Time	Depth (m)	Level (mOD)	Remarks

Remarks: The hole was lined with 4"Dia Plastic slotted filter gravel. Gasvalve upright sand filtred.

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Glover Site Investigations Ltd

Site: ENNISCOFFEY, CO. WESTMEATH			Borehole Number: 5
Boring Method: Shell & Auger	Dates: 16/02/04 - 19/02/04	Client: THORNTONS RECYCLING	Sheet: 1:1
Bore Diameter: 200mm Cased to 10.00m	Location: AS PLAN	Engineer: ENVIRON CONSULTING LTD	Ground Level (mOD):

Description	Depth (Thickness)	Legend	Level (mOD)	Sample/Test: Depth (m)	Sample	Test	Water Level	Daily Progress
Spongy dark brown amorphous PEAT	(0.40)							
Medium dense grey sandy subangular and subrounded GRAVEL	0.40			0.50 0.60-0.95	J B			
.... boulder from 1.30m - 1.45m	(1.00)			1.10	J			
Compact grey gravelly sandy SILT	1.40			1.50-1.95 1.60	B	SPT N=17		
Loose grey sandy fine to coarse subrounded GRAVEL with occasional cobbles	(1.10) 2.50			2.60-3.05 2.60	B	SPT N=17		
				4.00-4.45 4.00	B	SPT N=25		
				5.60-6.05 5.60	B	SPT N=56		
	(7.50)			7.20-7.65 7.20	B	SPT N=61		
				9.60-9.95 9.50	B	SPT N=47		
END OF BOREHOLE 10.00m	10.00							

Remarks: Installing from 1.30m to 1.40m for 0.5 hours. Chiselling from 1.00m to 1.20m for 1 hours. Standpipe installed to 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 Penetrometer Test
- 1:1 Penetration = 20mm

Scale: 1:50 | Logged By: [illegible]

Figure No.: [illegible]

Borehole Number: 5

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Glover Site Investigations Ltd

Site: BRITTSCOFFEY, CO. WESTMEATH

Borehole Number: 5

Installation Type: STANDPIPE

Dimensions: Internal Diameter of Tube (A) = 100 mm; Diameter of Filter Zone = 250 mm

Client: THORNTONS RECYCLING

Job Number: [illegible]

Location: AS PLAN

Ground Level (mOD):

Engineer: ENVIROS CONSULTING LTD

Sheet: [illegible]

Legend	Inst (A)	Level (mOD)	Depth (m)	Description
		-0.30	0.30	Concrete
		-1.00	1.00	Bentonite Seal
		-1.80	1.80	Sand Filter
		12.00	12.00	Slotted Standpipe

Groundwater Strikes during Drilling

Date	Time	Depth Struck (m)	Casing Depth (m)	Inflow Rate	Readings 5 min	10 min	15 min	20 min	Depth Sealed (m)

Groundwater Observations During Drilling

Date	Start of Shift: Time	Depth Hole (m)	Casing Depth (m)	Water Depth (m)	Water Level (mOD)	End of Shift: Time	Depth Hole (m)	Casing Depth (m)	Water Depth (m)	Water Level (mOD)
19/02/04							18.00			

Instrument Groundwater Observations

Inst. (A) Type:

Date	Instrument (A) Time	Depth (m)	Level (mOD)	Remarks

Remarks

Four steel mesh PVC pipe with 4-mm diameter washed filter gravel. Locksmith cover fitted

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Glover Site Investigations Ltd

Site: BRITTSCOFFEY, CO. WESTMEATH

Borehole Number: 6

Boring Method: Shell & Auger

Dates: 19/02/04 - 20/02/04

Client: THORNTONS RECYCLING

Sheet: 1/1

Hole Diameter: 250mm Cased to 10.40m

Location: AS PLAN

Engineer: ENVIROS CONSULTING LTD

Ground Level (mOD):

Description	Depth m (thickness)	Legend	Level (mOD)	Samples / Tests: Depth (m)	Sample	Test	Water Level	Daily Progress
TOPSOIL	(0.40) 0.40			0.50	J			
Firm grey brown slightly gravelly sandy CLAY	(0.50) 0.90			0.50-0.95	U			
Firm grey sandy CLAY with a little gravel	(0.80) 1.70			1.70	J			
Dense grey silty sandy fine to coarse subrounded GRAVEL	17.50			1.80-2.10 1.80	B	CPT (59)		
				2.85-2.95		CPT N=15		
				2.70	B			
				3.00-3.45 3.00	B	CPT N=46		
				4.50	B			
				4.50-4.95 4.50	B	CPT N=43		
				7.50-7.95 7.50	B	CPT N=34		
Dense grey slightly gravelly sandy CLAY	9.20							
	10.70			9.50-9.95 9.50	B	CPT N=29		
	6.60							

Remarks

Chiselling from 2.10m to 2.30m for 1.5 hours. Chiselling from 4.40m to 5.40m for 2 hours. Chiselling from 8.20m to 8.50m for 2 hours

SAMPLE / TEST KEY

- J Disturbed Sample
- B Bulk Sample
- U Undisturbed Core Sample
- P Piston Sample
- V Field Vane Test
- W Water Sample
- SP Standard Penetration Test
- CPT Cone Penetration Test
- ( ) Penetration > 500mm

Scale: 1:50 | Logged by: DC/AD

Figure No: 04-982-6

Borehole Number: 6

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Site: BALLINCOPPEY, CO. WESTMEATH			Borehole Number: 6
Client: THORNTONS RECYCLING			Sheet: 2/2
Engineer: ENVIRON CONSULTING LTD			Ground Level (mOD):
Drilling Method: Shell & Auger	Date: 19/02/04 - 20/02/04	Location: AS PLAN	
Hole Diameter: 200mm Cased to 10.40m			

Description	Depth (Thickness)	Legend	Level (mOD)	Samples / Tests: Depth (m)	Sample	Test	Water Level	Daily Progress
Medium Roman grey silty fine to coarse SAND	10.00 (0.40)							20/02/04
Medium dense grey silty fine to coarse SAND	10.40							
END OF BOREHOLE 10.40m								

Remarks
Standpipe installed to 10.40m.

NOTES / TEST KEY
J Disturbed Sample
B Bulk Sample
U Undisturbed Core Sample
W Water Sample
SPT Standard Penetration Test
CPT Cone Penetration Test

Scale: 1:50 | Logged By: GC/BD | Figure No.: 04-080 E | Borehole Number: 6

Glover Site Investigations Ltd

Site: BALLINCOPPEY, CO. WESTMEATH			Borehole Number: 6
Client: THORNTONS RECYCLING			Job Number: 04-080
Engineer: ENVIRON CONSULTING LTD			Sheet: 1/1
Installation Type: STANDPIPE	Dimensions: Internal Diameter of Tube (A) = 100 mm; Diameter of Filter Zone = 200 mm	Ground Level (mOD):	
	Location: AS PLAN		

Legend	Inst. (A)	Level (mOD)	Depth (m)	Description
		-0.30	0.30	Concrete
				Bentonite Seal
		-1.20	1.20	
		-1.80	1.80	Sand Filter
				Slotted Standpipe
		-10.40	10.40	

Groundwater Strike during Drilling

Date	Time	Depth Strike (m)	Casing Depth (m)	Water Depth (m)	Water Level (mOD)	Readings: 5 min	10 min	15 min	20 min	Depth Sealed (m)

Groundwater Observations During Drilling

Date	Start of Shift: Time	Depth Hole (m)	Casing Depth (m)	Water Depth (m)	Water Level (mOD)	End of Shift: Time	Depth Hole (m)	Casing Depth (m)	Water Depth (m)	Water Level (mOD)
19/02/04							10.40			

Intermittent Groundwater Observations

Inst. (A) Type:

Date	Instrument (A): Time	Depth (m)	Level (mOD)	Remarks

Remarks
50 mm slim PVC pipe with 4-mm diameter washed filter gravel.
Stable upright cover fitted.

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Site: KNOCKCOFFEY, CO. WESTMEATH			Borehole Number: 7
Boring Method: Shell & Auger	Dates: 23/02/04 - 23/02/04	Client: THORNTONS RECYCLING	Sheet: 1/2
Hole Diameter: 200mm Cased to 11.60m	Location: AS PLAN	Engineer: ENVIROS CONSULTING LTD	Ground Level (mOD):

Description	Depth (Thickness)	Legend	Level (mOD)	Samples / Tests: Depth (m)	Sample	Test	Water Level	Daily Progress
Peaty TOPSOIL with a little gravel	(0.30)							
Dense grey silty fine to coarse GRAVEL with occasional cobbles and boulders	0.30			0.80 1.00	J B			
				1.30-1.80 1.30	D	CPT N=31		
				2.30-2.75 2.30	D	CPT N=28		
				4.20-4.65 4.20	D	CPT N=37		
	(8.50)			6.00-6.45 6.00	D	CPT N=33		
				7.30	D			
				7.50-7.95		CPT N=27		
							23/02/04 3.20m:23/02/04	
				8.50-8.95 8.50	D	CPT N=54		
Soft to firm grey gravelly slightly sandy CLAY	8.80 (0.60)			9.50	D			
	9.40			10.00-10.45		SPT (50)		

Remarks: Installing from 9.90m to 11.60m for 3 hours

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: MC/HD | Figure No.: 04-088.1 | Borehole Number: 7

Glover Site Investigations Ltd

Site: KNOCKCOFFEY, CO WESTMEATH			Borehole Number: 7
Boring Method: Shell & Auger	Dates: 23/02/04 - 23/02/04	Client: THORNTONS RECYCLING	Sheet: 2/2
Hole Diameter: 200mm Cased to 11.60m	Location: AS PLAN	Engineer: ENVIROS CONSULTING LTD	Ground Level (mOD):

Description	Depth (Thickness)	Legend	Level (mOD)	Samples / Tests: Depth (m)	Sample	Test	Water Level	Daily Progress
Stiff grey gravelly sandy CLAY with some cobbles and boulders	10.60			10.00	J			
Stiff grey gravelly sandy CLAY with some cobbles and boulders	11.60							
				11.50-12.05 11.60	D	SPT N=66		24/02/04
END OF BOREHOLE 11.60m								

Remarks: Standpipe installed to 7.50m.

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: MC/HD | Figure No.: 04-088.2 | Borehole Number: 7

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Site	BRIDGEFREY, CO. WESTMEATH
Borehole Number	7
Installation Type	STANDPIPE
Dimensions	Internal Diameter of Tube [A] = 100 mm Diameter of Filter Zone = 200 mm
Client	THORNTONS RECYCLING
Job Number	04-080
Location	AS PLAN
Ground Level (mOD)	
Engineer	ENVIROS CONSULTING LTD
Sheet	1/1

Legend	Inst. [A]	Level (mOD)	Depth (m)	Description
		-0.30	0.30	Concrete
				Bentonite Seal
		-2.30	2.30	Sand Filter
		-2.60	2.60	
		-11.60	11.60	Slotted Standpipe

Groundwater Strikes during Drilling

Date	Time	Depth Struck (m)	Casing Depth (m)	Inflow Rate	Readings 5 min	10 min	15 min	20 min	Depth Sealed (m)

Groundwater Observations During Drilling

Date	Start of Shift: Time	Depth Hole (m)	Casing Depth (m)	Water Depth (m)	Water Level (mOD)	End of Shift: Type	Depth Hole (m)	Casing Depth (m)	Water Depth (m)	Water Level (mOD)
23/02/04 26/02/04				2.60			8.00 11.00			

Instrument Groundwater Observations

Inst. [A] Type:

Date	Instrument [A] Time	Depth (m)	Level (mOD)	Remarks

Remarks

100 slot 50mm PVC pipe with 4-5mm diameter washed filter gravel.
Lockable upright cover fitted

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Glover Site Investigations Ltd

Site	BRIDGEFREY, CO. WESTMEATH
Borehole Number	8
Boring Method	Small 4 Auger
Dates	20/02/04 - 21/02/04
Client	THORNTONS RECYCLING
Sheet	1/2
Hole Diameter	200mm Cased to 10.50m
Location	AS PLAN
Engineer	ENVIROS CONSULTING LTD
Ground Level (mOD)	

Description	Depth (Thickness)	Legend	Level (mOD)	Sample/Test Depth (m)	Sample	Test	Water Level	Daily Progress
TOPSOIL	(0.20) 0.20							
Stiff grey very gravelly sandy CLAY with some cobbles and boulders	(1.70)			1.00-1.45 1.00	B	SPT N=31		
Dense grey sandy fine to coarse subrounded GRAVEL with some cobbles and boulders	1.90			2.00-2.45 2.00	B	SPT N=57		
				3.00-3.45 3.00	B	SPT N=77		
				4.00-4.45 4.00	B	SPT N=66		
	(5.90)			5.00-5.45 5.00	B	SPT N=44	Water Strike at 4.40m rose to 3.15m in 10 mins	
				6.00-6.45 6.00	B	SPT N=60		
				7.00-7.45 7.00	B	SPT N=50		
Medium dense grey slightly silty sandy fine to coarse GRAVEL	7.80			8.00-8.45 8.00	B	SPT N=32		
	(2.20)			9.00-9.45 9.00	B	SPT N=34		
	10.00			10.00	B			

Remarks

Borehole dry 2.80m to 4.00m for 2 hours. Borehole from 4.00m to 4.40m for 1.5 hours

SAMPLE/TEST KEY
A 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
(1) Penetration - 100mm

Scale	Logged By
1:50	DCYHD
Figure No.	04-080 C
Borehole Number	8

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Glover Site Investigations Ltd

Site	[illegible] CO. WESTMEATH
Borehole Number	8
Boring Method	Shell & Auger
Dates	20/02/04 - 23/02/04
Client	THORNTONS RECYCLING
Sheet	2/2
Hole Diameter	200mm Cased to 10.50m
Location	AS PLAN
Engineer	ENVIROS CONSULTING LTD
Ground Level (mOD)	

Description	Depth m (Thickness)	Legend	Level (mOD)	Samples / Tests: Depth (m)	Sample	Test	Water Level	Daily Progress
Medium dense grey slightly silty sandy fine to coarse GRAVEL.	10.50							
END OF BOREHOLE 10.50m	10.50						23/02/04	

Remarks
Standpipe installed to 10.50m

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 DEVID
Figure No C4 GSI.8
Borehole Number 8

Glover Site Investigations Ltd

Site	[illegible] CO. WESTMEATH
Borehole Number	8
Installation Type	STANDPIPE
Dimensions	Internal Diameter of Tube (A) = 100 mm; Diameter of Filter Zone = 200 mm
Client	THORNTONS RECYCLING
Job Number	04-[illegible]
Location	AS PLAN
Ground Level (mOD)	
Engineer	ENVIROS CONSULTING LTD
Sheet	1/1

Legend	Inst. (A)	Level (mOD)	Depth (m)	Description
		-0.30	0.30	Concrete
		-1.00	1.00	Bentonite Seal
		-1.50	1.50	Sand Filter
		-10.50	10.50	Slotted Standpipe

Groundwater Strikes during Drilling

Date	Time	Depth Struck (m)	Casing Depth (m)	Inflow Rate	Readings 5 min	10 min	15 min	20 min	Depth Sealed (m)
		4.40		Water Struck		3.10			

Groundwater Observations Doing Drilling

Date	Start of Shift: Time	Depth Hole (m)	Casing Depth (m)	Water Depth (m)	Water Level (mOD)	End of Shift: Time	Depth Hole (m)	Casing Depth (m)	Water Depth (m)	Water Level (mOD)
23/02/04							10.50			

Instrument Groundwater Observations

Inst (A) Type:

Date	Instrument (A): Time	Depth (m)	Level (mOD)	Remarks

Remarks
[illegible] mm slot size PVC pipe with 4 mm diameter washed filter gravel backfill upright cover fitted.

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Glover Site Investigations Ltd

Site: BRIDGEOFFEY, CO. WESTMEATH			Borehole Number: 9A
Boring Method: Shell & Auger	Dates: 25/02/04 - 25/02/04	Client: THORNTONS RECYCLING	Sheet: 1/1
Hole Diameter: 200mm Cased to 12.00m	Location: AS PLAN	Engineer: ENVIROS CONSULTING LTD	Ground Level (mOD):

Description	Depth (Thickness)	Legend	Level (mOD)	Samples / Tests: Depth (m)	Sample	Test	Water Level	Daily Progress
Peaty TOPSOIL	0.20 (0.20)							
Firm grey very gravelly slightly sandy CLAY with some cobbles and boulders	1.00 (0.80)			0.50-0.95 0.50	B	SPT N=42		
				0.90	B			
Dense grey sandy fine to coarse subrounded GRAVEL with occasional cobbles	1.20			1.50-1.95 1.50	B	CPT N=46		
				2.10-2.15 2.70	B	CPT N=60		
				4.20-4.40 4.20	B	CPT N=54	1.40m 25/02/04	
	10.60			5.70-6.15 5.70	B	CPT N=82		
				7.50-7.95 7.50	B	CPT N=63		
Medium dense grey gravelly fine to coarse SAND	9.60 (10.60)			9.80-10.25 9.80	B	CPT N=28		

Remarks: Pumping from 7.70m to 7.90m for 3 hours

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: DC/HD | Figure No. 04-080-9A | Borehole Number: 9A

Glover Site Investigations Ltd

Site: BRIDGEOFFEY, CO. WESTMEATH			Borehole Number: 9A
Boring Method: Shell & Auger	Dates: 25/02/04 - 25/02/04	Client: THORNTONS RECYCLING	Sheet: 2/2
Hole Diameter: 200mm Cased to 12.00m	Location: AS PLAN	Engineer: ENVIROS CONSULTING LTD	Ground Level (mOD):

Description	Depth (Thickness)	Legend	Level (mOD)	Samples / Tests: Depth (m)	Sample	Test	Water Level	Daily Progress
Medium dense grey gravelly fine to coarse SAND	10.60							
Firm grey gravelly sandy CLAY with occasional cobbles and boulders	10.40			10.50-10.95 10.50	B	CPT N=24		
	12.00			11.60	J			
				12.20-12.65 12.20 12.40	J J	CPT N=35		
END OF BOREHOLE 12.00m	12.00							25/02/04

Remarks: Standpipe installed to 7.90m

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: DC/HD | Figure No. 04-080-9A | Borehole Number: 9A

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Installation Type	Dimensions	Site	Borehole Number
STANDPIPE	Internal Diameter of Tube (A) = 100 mm Diameter of Filter Zone = 200 mm	BRIMSDOWN, CO. WEXFORD	BA
	Location: AS PLAN	Client: THORNTON RECYCLING	Job Number: 04-099
	Ground Level (mOD):	Engineer: EWI/GSI CONSULTING LTD	Sheet: 1/1

Legend	Inst. (A)	Level (mOD)	Depth (m)	Description
		-0.30	0.30	Topsoil
		-1.70	1.20	Sandy/silty Gravel
		-7.80	1.80	Sand Filter
		-12.80	12.80	Slotted Standpipe

Remarks: 50mm slot size PVC pipe with 6-8mm diameter washed filter gravel
Wellhead upright cover fitted

Groundwater Strikes during Drilling

Date	Time	Depth Struck (m)	Casing Depth (m)	Inflow Rate	Readings 5 min	10 min	15 min	20 min	Depth Sealed (m)

Groundwater Observations During Drilling

Date	Start of Shift Time	Depth Hole (m)	Casing Depth (m)	Water Depth (m)	Water Level (mOD)	End of Shift Time	Depth Hole (m)	Casing Depth (m)	Water Depth (m)	Water Level (mOD)
25/01/94 (07:30-09:30)				1.40			12.80			

Instrument Groundwater Observations

Inst. (A) Type :

Date	Instrument (A) Time	Depth (m)	Level (mOD)	Remarks

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