



**CAUSEWAY**  
— GEOTECH

**APPENDIX B**  
**BOREHOLE LOGS**





# CAUSEWAY GEOTECH

<b>Project No.:</b> 18-0838A	<b>Project Name:</b> Monaghan Landfills - Killycard	<b>Borehole No.:</b> GW01
<b>Coordinates:</b> 281046.81 E	<b>Client:</b> Monaghan County Council	Sheet 1 of 1
<b>Method</b> Rotary Drilling	<b>Plant Used</b> Hanjin 8D	<b>Top</b> 0.00
<b>Base</b> 10.00	<b>Client's Representative:</b> Fehily Timoney	<b>Scale:</b> 1:50
<b>Ground Level:</b> 94.99 mOD	<b>Dates:</b> 01/10/2018 - 01/10/2018	<b>Driller:</b> JR
		<b>Logger:</b> CH

Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Legend	Description	Water	Backfill
								MADE GROUND: Stone fill (Driller's description)		
					93.98	1.00		MADE GROUND: Rubbish (Driller's description)		
					92.58	2.40		PEAT (Driller's description)		
					90.18	4.80		Soft grey SILT (Driller's description)		
				Heavy water strike at 6.00m	88.98	6.00		Weathered LIMESTONE (Driller's description)		
					88.48	6.50		Black LIMESTONE (Driller's description)		
					84.98	10.00		End of Borehole at 10.00m		

Remarks  Terminated at scheduled depth	Water Strikes				Chiselling Details		
	Struck at (m)	Casing to (m)	Time (min)	Rose to (m)	From (m)	To (m)	Time (hh:mm)
	6.00	6.00					
	Water Added		Casing Details				
From (m)	To (m)	To (m)	Diam (mm)				



# CAUSEWAY GEOTECH

<b>Project No.:</b> 18-0838A	<b>Project Name:</b> Monaghan Landfills - Killycard	<b>Borehole No.:</b> GW02
<b>Coordinates:</b> 281043.46 E	<b>Client:</b> Monaghan County Council	Sheet 1 of 1
<b>Method</b> Rotary Drilling	<b>Plant Used</b> Hanjin 8D	<b>Top</b> 0.00
<b>Base</b> 10.00	<b>Client's Representative:</b> Fehily Timoney	<b>Scale:</b> 1:50
<b>Ground Level:</b> 95.48 mOD	<b>Dates:</b> 28/09/2018 - 28/09/2018	<b>Driller:</b> JR
		<b>Logger:</b> CH

Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Legend	Description	Water	Backfill
					95.38	(0.10)	[Cross-hatch pattern]	TOPSOIL (Driller's description)		
						(0.40)	[Cross-hatch pattern]	MADE GROUND: CLAY (Driller's description)		
					94.98	0.50	[Cross-hatch pattern]	MADE GROUND: Rubbish -paper and plastic (Driller's description)		
						(1.90)	[Cross-hatch pattern]			
					93.08	2.40	[Silt pattern]	PEAT (Driller's description)		
						(2.20)	[Silt pattern]			
					90.88	4.60	[Silt pattern]	Soft grey SILT (Driller's description)		
						(1.40)	[Silt pattern]			
					89.48	6.00	[Brick pattern]	Weathered LIMESTONE (Driller's description)		
						(0.50)	[Brick pattern]			
				Strong water strike at 6.5m	88.98	6.50	[Brick pattern]	Black LIMESTONE (Driller's description)		
						(3.50)	[Brick pattern]			
					85.48	10.00		End of Borehole at 10.00m		

Remarks  Terminated at scheduled depth	Water Strikes				Chiselling Details		
	Struck at (m)	Casing to (m)	Time (min)	Rose to (m)	From (m)	To (m)	Time (hh:mm)
	6.50	6.50					
	Water Added		Casing Details				
From (m)	To (m)	To (m)	Diam (mm)				



# CAUSEWAY GEOTECH

<b>Project No.:</b> 18-0838A	<b>Project Name:</b> Monaghan Landfills - Killycard	<b>Borehole No.:</b> GW03
<b>Coordinates:</b> 280944.93 E	<b>Client:</b> Monaghan County Council	Sheet 1 of 1
<b>Method</b> Rotary Drilling	<b>Plant Used</b> Hanjin 8D	<b>Top</b> 0.00
<b>Base</b> 10.00	<b>Client's Representative:</b> Fehily Timoney	<b>Scale:</b> 1:50
<b>Ground Level:</b> 93.87 mOD	<b>Dates:</b> 27/09/2018 - 27/09/2018	<b>Driller:</b> JR
		<b>Logger:</b> CH

Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Legend	Description	Water	Backfill
					93.77	(0.10)	[Cross-hatch pattern]	TOPSOIL (Driller's description)		
						(0.40)	[Cross-hatch pattern]	MADE GROUND: CLAY (Driller's description)		
					93.37	0.50	[Cross-hatch pattern]	MADE GROUND: Rubbish-plastic and paper (Driller's description)		
						(1.50)	[Cross-hatch pattern]			
					91.87	2.00	[Silt pattern]	PEAT (Driller's description)		
						(2.00)	[Silt pattern]			
					89.87	4.00	[Silt pattern]	Soft grey SILT (Driller's description)		
						(1.50)	[Silt pattern]			
				Strong water seepage at 5.50m	88.37	5.50	[Limestone pattern]	Black LIMESTONE (Driller's description)		
						(4.50)	[Limestone pattern]			
					83.87	10.00		End of Borehole at 10.00m		

Remarks  Terminated at scheduled depth	Water Strikes				Chiselling Details		
	Struck at (m)	Casing to (m)	Time (min)	Rose to (m)	From (m)	To (m)	Time (hh:mm)
	5.50	5.50					
	Water Added		Casing Details				
	From (m)	To (m)	To (m)	Diam (mm)			



**CAUSEWAY**  
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**APPENDIX C**  
**TRIAL PIT LOGS**





**CAUSEWAY**  
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**Project No.:**  
18-0838A

**Project Name:**  
Monaghan Landfills - Killycard

**Trial Pit No.:**  
TP01

**Co-ordinates:**  
280945.02 E

**Client:**  
Monaghan County Council

Sheet 1 of 1

**Method:**  
Trial Pitting

320406.91 N

**Client's Representative:**  
Fehily Timoney

**Scale:** 1:25

**Plant:**  
13T Tracked Excavator

**Ground Level:**  
93.91 mOD

**Date:**  
20/09/2018

**Logger:** GH

Depth (m)	Sample / Tests	Field Records	Level (mOD)	Depth (m) (Thickness)	Legend	Description	Water
0.50	B1	Fast flow at 2.10m	93.81	(0.10) 0.10		TOPSOIL	
			93.31	(0.50)		MADE GROUND: Firm brown slightly sandy slightly gravelly SILT with fragments of plastic glass and rope. Sand is fine to coarse. Gravel is angular fine to coarse.	
			93.31	0.60		MADE GROUND: Black waste - 40% plastic, 5% glass bottles, fertiliser bags, shoes, mattress, steel pipe, cloths and 2 rolls of industrial cardboard.	
				(1.60)			
			91.71	2.20		Spongy brown fibrous PEAT.	
				(1.20)			
			90.51	3.40		Soft bluish grey silty CLAY.	
				(1.10)			
			89.41	4.50		End of trial pit at 4.50m	

Remarks  Terminated at scheduled depth	<b>Water Strikes:</b>		<b>Stability:</b> Unstable
	Struck at (m):	Remarks:	
	2.10	Fast flow at 2.10m	<b>Width:</b> 1.00 <b>Length:</b> 2.80



**CAUSEWAY**  
GEOTECH

**Project No.:**

18-0838A

**Project Name:**

Monaghan Landfills - Killycard

**Trial Pit No.:**

TP02

**Co-ordinates:**

280935.21 E

**Client:**

Monaghan County Council

Sheet 1 of 1

**Method:**

Trial Pitting

320450.28 N

**Client's Representative:**

Fehily Timoney

**Scale:** 1:25

**Plant:**

13T Tracked Excavator

**Ground Level:**

93.85 mOD

**Date:**

20/09/2018

**Logger:** GH

Depth (m)	Sample / Tests	Field Records	Level (mOD)	Depth (m) (Thickness)	Legend	Description	Water
0.50	B1	Flow at 1.80m	93.75	(0.10) 0.10		TOPSOIL	
			93.15	(0.60)		MADE GROUND: Brown slightly sandy gravelly SILT with foam, papers, plastic and glass bottles. Sand is fine to coarse. Gravel is subangular fine to coarse.	
			91.25	(1.90)		MADE GROUND: Black waste- 50% plastic, 5% glass bottles, planks of wood, foam, plastic, pipes, kitchen knife, metal straps, shoes, wellies.	
			89.65	(1.60)		Spongy brown fibrous PEAT.	
			89.35	(0.30)		Soft bluish grey silty CLAY.	
			89.35	4.50		End of trial pit at 4.50m	

**Remarks**  
Terminated at scheduled depth

<b>Water Strikes:</b>		<b>Stability:</b> Unstable
Struck at (m):	Remarks:	
1.80	Flow at 1.80m	<b>Width:</b> 1.00 <b>Length:</b> 3.30
2.70	Fast flow at 2.70m	



**CAUSEWAY**  
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**Project No.:**  
18-0838A

**Project Name:**  
Monaghan Landfills - Killycard

**Trial Pit No.:**  
TP03

**Co-ordinates:**  
280958.64 E

**Client:**  
Monaghan County Council

Sheet 1 of 1

**Method:**  
Trial Pitting

320468.90 N

**Client's Representative:**  
Fehily Timoney

**Scale:** 1:25

**Plant:**  
13T Tracked Excavator

**Ground Level:**  
94.15 mOD

**Date:**  
20/09/2018

**Logger:** GH

Depth (m)	Sample / Tests	Field Records	Level (mOD)	Depth (m) (Thickness)	Legend	Description	Water
0.30	B1		94.04	(0.10) 0.10		TOPSOIL	
			93.74	(0.30) 0.40		MADE GROUND: Firm brownish grey slightly sandy slightly gravelly SILT with low cobble content. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse. Cobbles are subrounded.	
				(1.90)		MADE GROUND: Brownish black waste. 30% office waste, shredded paper, old clothes, mattress springs, zinc, wood, shoes, tiles, blankets and fertiliser bags.	
			91.84	2.30		Spongy brown fibrous PEAT.	
		Fast flow at 2.10m					
			90.54	3.60		Bluish grey silty CLAY.	
				(0.60)			
			89.94	4.20		End of trial pit at 4.20m	

Remarks  Terminated on possible bedrock	<b>Water Strikes:</b>		<b>Stability:</b> Stable
	Struck at (m):	Remarks:	
	2.10	Fast flow at 2.10m	<b>Width:</b> 1.00 <b>Length:</b> 4.10





**CAUSEWAY**  
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**Project No.:**  
18-0838A

**Co-ordinates:**  
280968.11 E  
320446.26 N

**Ground Level:**  
94.29 mOD

**Project Name:**  
Monaghan Landfills - Killycard

**Client:**  
Monaghan County Council

**Client's Representative:**  
Fehily Timoney

**Date:**  
21/09/2018

**Trial Pit No.:**  
TP04

Sheet 1 of 1

**Scale:** 1:25

**Logger:** GH

**Method:**  
Trial Pitting

**Plant:**  
13T Tracked Excavator

Depth (m)	Sample / Tests	Field Records	Level (mOD)	Depth (m) (Thickness)	Legend	Description	Water
			94.19	(0.10) 0.10		TOPSOIL	
0.50	B1			(0.50)		MADE GROUND: Firm brown slightly sandy slightly gravelly SILT with fragments of plastic. Sand is fine to coarse. Gravel is subangular fine to coarse.	
0.50	ES2		93.69	0.60		MADE GROUND: Black waste- 40%plastic, fertiliser bags, 10% glass bottles, shoes, clothes.	
				(1.50)			
			92.19	2.10		Spongy brown fibrous PEAT.	
				(2.10)			
		Seepage at 4.10m	90.09	4.20		Soft bluish grey silty CLAY.	
				(0.30)			
			89.79	4.50		End of trial pit at 4.50m	

Remarks  Terminated at scheduled depth	<b>Water Strikes:</b>		<b>Stability:</b> Stable
	Struck at (m):	Remarks:	
	4.10	Seepage at 4.10m	<b>Width:</b> 1.10 <b>Length:</b> 4.10



**CAUSEWAY**  
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**Project No.:**  
18-0838A

**Project Name:**  
Monaghan Landfills - Killycard

**Trial Pit No.:**  
TP05

**Co-ordinates:**  
280978.92 E

**Client:**  
Monaghan County Council

Sheet 1 of 1

**Method:**  
Trial Pitting

320413.57 N

**Client's Representative:**  
Fehily Timoney

**Scale:** 1:25

**Plant:**  
13T Tracked Excavator

**Ground Level:**  
93.88 mOD

**Date:**  
20/09/2018

**Logger:** GH

Depth (m)	Sample / Tests	Field Records	Level (mOD)	Depth (m) (Thickness)	Legend	Description	Water
0.40	B1		93.83	(0.05)		TOPSOIL	
				(0.45)		MADE GROUND: Soft brownish grey slightly sandy slightly gravelly SILT with plastic, old clothes, red brick, metal wires, blankets. Sand is fine to coarse. Gravel is subangular fine to coarse.	
			93.38	0.50		MADE GROUND: Black waste-60% plastic, 10% clothes, 5% glass bottles. Wood, plastic bottles, metal pipes.	
				(1.70)			
			91.68	2.20		Spongy brown fibrous PEAT.	
				(1.60)			
			90.08	3.80		Firm blue silty CLAY.	
				(0.70)			
			89.38	4.50		End of trial pit at 4.50m	

<b>Remarks</b> No groundwater encountered  Terminated at scheduled depth	<b>Water Strikes:</b>		<b>Stability:</b> Stable
	Struck at (m):	Remarks:	
			<b>Width:</b> 1.00 <b>Length:</b> 3.10



**CAUSEWAY**  
GEOTECH

**Project No.:**  
18-0838A

**Co-ordinates:**  
280995.49 E  
320380.12 N

**Ground Level:**  
93.95 mOD

**Project Name:**  
Monaghan Landfills - Killycard

**Client:**  
Monaghan County Council

**Client's Representative:**  
Fehily Timoney

**Date:**  
20/09/2018

**Trial Pit No.:**  
TP06

Sheet 1 of 1

**Scale:** 1:25

**Logger:** GH

**Method:**  
Trial Pitting

**Plant:**  
13T Tracked Excavator

Depth (m)	Sample / Tests	Field Records	Level (mOD)	Depth (m) (Thickness)	Legend	Description	Water
0.50	B1	Significant flow at 1.20m	93.85	(0.10) 0.10	[Hatched Pattern]	TOPSOIL	
			93.15	(0.70)	[Cross-hatched Pattern]	MADE GROUND: Firm brown slightly sandy slightly gravelly SILT with fragments of red brick, pipes, plastic, steel pipes, glass bottles. Sand is fine to coarse. Gravel is subangular fine to coarse.	
			93.15	0.80	[Cross-hatched Pattern]	MADE GROUND: Firm greyish black slightly sandy slightly gravelly CLAY with plastic, ropes, glass bottles and metal wires. Sand is fine to coarse. Gravel is subangular fine to coarse.	
			91.55	(1.60)	[Dotted Pattern]	Spongy brown fibrous PEAT.	
			91.55	(1.60)	[Dotted Pattern]	Spongy brown fibrous PEAT.	
			89.95	4.00	[Horizontal Line Pattern]	Firm bluish grey silty CLAY.	
			89.45	(0.50) 4.50	[Horizontal Line Pattern]	End of trial pit at 4.50m	

Remarks  Terminated at scheduled depth	<b>Water Strikes:</b>		<b>Stability:</b> Unstable
	Struck at (m):	Remarks:	
	1.20	Significant flow at 1.20m	<b>Width:</b> 0.90 <b>Length:</b> 2.90





**CAUSEWAY**  
GEOTECH

<b>Project No.:</b> 18-0838A	<b>Project Name:</b> Monaghan Landfills - Killycard	<b>Trial Pit No.:</b> TP08
<b>Co-ordinates:</b> 281016.01 E	<b>Client:</b> Monaghan County Council	Sheet 1 of 1
<b>Method:</b> Trial Pitting	<b>Client's Representative:</b> Fehily Timoney	<b>Scale:</b> 1:25
<b>Plant:</b> 13T Tracked Excavator	<b>Ground Level:</b> 94.42 mOD	<b>Date:</b> 21/09/2018
		<b>Logger:</b> GH

Depth (m)	Sample / Tests	Field Records	Level (mOD)	Depth (m) (Thickness)	Legend	Description	Water
			94.32	(0.10) 0.10		TOPSOIL	
0.50	B1			(0.50)		MADE GROUND: Firm brown slightly sandy slightly gravelly SILT with low cobble content. Sand is fine to coarse. Gravel is subangular fine to coarse. Cobbles are angular.	
0.50	ES2		93.82	0.60		MADE GROUND: Black waste- plastic, wires and ropes.	
				(0.50)			
			93.32	1.10		MADE GROUND: Firm grey slightly sandy slightly gravelly CLAY with medium cobble content. Sand is fine to coarse. Gravel is subangular fine to coarse. Cobbles are angular.	
				(3.30)			
			90.02	4.40 (0.10)		Spongy brown fibrous PEAT.	
			89.92	4.50		End of trial pit at 4.50m	

<b>Remarks</b> No groundwater encountered  Terminated at scheduled depth	<b>Water Strikes:</b>		<b>Stability:</b> Stable
	Struck at (m):	Remarks:	
			<b>Width:</b> 1.00 <b>Length:</b> 4.30



**CAUSEWAY**  
GEOTECH

**Project No.:**  
18-0838A

**Project Name:**  
Monaghan Landfills - Killycard

**Trial Pit No.:**  
TP09

**Co-ordinates:**  
281008.90 E

**Client:**  
Monaghan County Council

Sheet 1 of 1

**Method:**  
Trial Pitting

320464.47 N

**Client's Representative:**  
Fehily Timoney

**Scale:** 1:25

**Plant:**  
13T Tracked Excavator

**Ground Level:**  
94.52 mOD

**Date:**  
20/09/2018

**Logger:** GH

Depth (m)	Sample / Tests	Field Records	Level (mOD)	Depth (m) (Thickness)	Legend	Description	Water
0.50	B1		94.42	(0.10) 0.10		TOPSOIL	
				(0.50)		MADE GROUND: Firm light brown slightly sandy slightly gravelly SILT with fragments of plastic. Sand is fine to coarse. Gravel is subangular.	
			93.92	0.60		MADE GROUND: Brownish black waste- 60 percent plastic, 10% clothes, glass bottles and pipes.	
				(2.10)			
			91.82	2.70		Spongy brown fibrous PEAT.	
	(0.80)						
	91.02	3.50		3.50	Soft bluish grey silty CLAY.		
	(1.00)						
	90.02	4.50	4.50	End of trial pit at 4.50m			

**Remarks**  
No groundwater encountered  
  
Terminated at scheduled depth

<b>Water Strikes:</b>		<b>Stability:</b> Stable
Struck at (m):	Remarks:	
		<b>Width:</b> 1.10
		<b>Length:</b> 3.90



**CAUSEWAY**  
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**Project No.:**  
18-0838A

**Project Name:**  
Monaghan Landfills - Killycard

**Trial Pit No.:**  
TP10

**Co-ordinates:**  
280992.40 E

**Client:**  
Monaghan County Council

Sheet 1 of 1

**Method:**  
Trial Pitting

320482.32 N

**Client's Representative:**  
Fehily Timoney

**Scale:** 1:25

**Plant:**  
13T Tracked Excavator

**Ground Level:**  
94.65 mOD

**Date:**  
20/09/2018

**Logger:** GH

Depth (m)	Sample / Tests	Field Records	Level (mOD)	Depth (m) (Thickness)	Legend	Description	Water
0.50	B1	Seepage at 1.60m	94.60	(0.05)		TOPSOIL	
				(0.55)		MADE GROUND: Firm brownish grey slightly sandy slightly gravelly SILT with low cobble content and fragments of plastic. Sand is fine to coarse. Gravel is subangular fine to coarse. Cobbles are angular.	
			94.05	0.60		MADE GROUND: Black waste- 30% plastic, old clothes, glass bottles and metal pipes.	
				(1.30)			
			92.75	1.90		Spongy brown fibrous PEAT.	
				(1.30)			
			91.45	3.20		Soft bluish grey silty CLAY.	
				(1.30)			
			90.15	4.50		End of trial pit at 4.50m	

Remarks  Terminated at scheduled depth	<b>Water Strikes:</b>		<b>Stability:</b> Stable
	Struck at (m):	Remarks:	
	1.60	Seepage at 1.60m	<b>Width:</b> 1.00 <b>Length:</b> 3.10



**CAUSEWAY**  
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**Project No.:**  
18-0838A

**Project Name:**  
Monaghan Landfills - Killycard

**Trial Pit No.:**  
TP11

**Co-ordinates:**  
281036.50 E

**Client:**  
Monaghan County Council

Sheet 1 of 1

**Method:**  
Trial Pitting

320498.35 N

**Client's Representative:**  
Fehily Timoney

**Scale:** 1:25

**Plant:**  
13.5T Tracked Excavator

**Ground Level:**  
95.07 mOD

**Date:**  
20/09/2018

**Logger:** GH

Depth (m)	Sample / Tests	Field Records	Level (mOD)	Depth (m) (Thickness)	Legend	Description	Water
0.40	B1	Fast flow at 3.00m	95.02	(0.05)	[Hatched Pattern]	TOPSOIL	[Water Level Indicator]
				(0.45)	[Cross-hatch Pattern]	MADE GROUND: Firm brown slightly sandy slightly gravelly SILT. Sand is fine to coarse. Gravel is subrounded fine to coarse.	
			94.57	0.50	[Cross-hatch Pattern]	MADE GROUND: - Black waste-50% plastic, 10% rubber, 15% glass bottles. Washing machines, cups, springs, coal bags, clothes, nets, planks of wood and fertiliser bags.	
				(2.90)			
			91.67	3.40	[X-pattern]	Soft blue silty CLAY.	
				(0.90)			
			90.77	4.30		End of trial pit at 4.30m	

Remarks  Terminated due to pit walls collapsing	<b>Water Strikes:</b>		<b>Stability:</b> Unstable
	Struck at (m):	Remarks:	
	3.00	Fast flow at 3.00m	<b>Width:</b> 1.80 <b>Length:</b> 3.80





**CAUSEWAY**  
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**Project No.:**

18-0838A

**Project Name:**

Monaghan Landfills - Killycard

**Trial Pit No.:**

TP12

**Co-ordinates:**

281045.85 E

**Client:**

Monaghan County Council

Sheet 1 of 1

**Method:**

Trial Pitting

320475.04 N

**Client's Representative:**

Fehily Timoney

**Scale:** 1:25

**Plant:**

13T Tracked Excavator

**Ground Level:**

95.21 mOD

**Date:**

20/09/2018

**Logger:** GH

Depth (m)	Sample / Tests	Field Records	Level (mOD)	Depth (m) (Thickness)	Legend	Description	Water
0.20	B1		95.16	(0.05)	[Hatched]	TOPSOIL	
				(0.25)	[Hatched]	MADE GROUND: Firm light brown slightly sandy slightly gravelly SILT with pieces of plastic. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse.	
			94.91	0.30	[Hatched]	MADE GROUND: Soft brown slightly sandy slightly gravelly CLAY with plastic, glass bottles, planks of wood, red brick, clothes and fertiliser bags. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse.	
				(1.30)	[Hatched]		
			93.61	1.60	[Hatched]	MADE GROUND: Firm grey slightly sandy slightly gravelly CLAY with fragments of plastic pipe and wire. Sand is fine to coarse,. Gravel is subangular to subrounded fine to coarse.	
				(1.10)			
			92.51	2.70	[Silty]	Spongy brown fibrous PEAT.	
		Seepage at 2.80m		(1.00)			
			91.51	3.70	[Silty]	Soft bluish grey silty CLAY.	
				(0.80)			
			90.71	4.50		End of trial pit at 4.50m	

**Remarks**  
Terminated at scheduled depth

<b>Water Strikes:</b>		<b>Stability:</b> Stable
Struck at (m):	Remarks:	
2.80	Seepage at 2.80m	
<b>Width:</b> 1.00		<b>Length:</b> 4.10
<b>Length:</b> 4.10		



**CAUSEWAY**  
GEOTECH

<b>Project No.:</b> 18-0838A	<b>Project Name:</b> Monaghan Landfills - Killycard	<b>Trial Pit No.:</b> TP13
<b>Co-ordinates:</b> 281077.69 E	<b>Client:</b> Monaghan County Council	Sheet 1 of 1
<b>Method:</b> Trial Pitting	<b>Client's Representative:</b> Fehily Timoney	<b>Scale:</b> 1:25
<b>Plant:</b> 13T Tracked Excavator	<b>Ground Level:</b> 94.94 mOD	<b>Date:</b> 21/09/2018
		<b>Logger:</b> GH

Depth (m)	Sample / Tests	Field Records	Level (mOD)	Depth (m) (Thickness)	Legend	Description	Water
0.50	B1	Fast flow at 2.10	94.84	(0.10) 0.10		TOPSOIL	▼
			94.34	(0.50)		MADE GROUND: Firm brown slightly gravelly sandy CLAY with fragments of plastic, milk cartons, glass bottles, coal bags and fertiliser bags. Sand is fine to coarse. Gravel is subangular fine to coarse.	
			93.64	(0.70)		MADE GROUND: Black waste - steel pipes, 30% plastic, 10% clothes.	
			92.54	(1.10)		MADE GROUND: Soft brownish grey slightly sandy gravelly CLAY with high cobble content. Sand is fine to coarse. Gravel is subangular fine to coarse. Cobbles are angular.	
			91.14	(1.40)		Spongy brown fibrous PEAT.	
90.44			91.14	3.80		Soft bluish grey silty CLAY.	
			90.44	4.50		End of trial pit at 4.50m	

Remarks  Terminated at scheduled depth	<b>Water Strikes:</b>		<b>Stability:</b> Unstable
	Struck at (m):	Remarks:	
	2.10	Fast flow at 2.10	<b>Width:</b> 1.40 <b>Length:</b> 4.30



**CAUSEWAY**  
— GEOTECH

**APPENDIX D**  
**TRIAL PIT PHOTOGRAPHS**





TP01



TP01



TP01



TP01



TP01



TP01



TP01





TP01



TP01



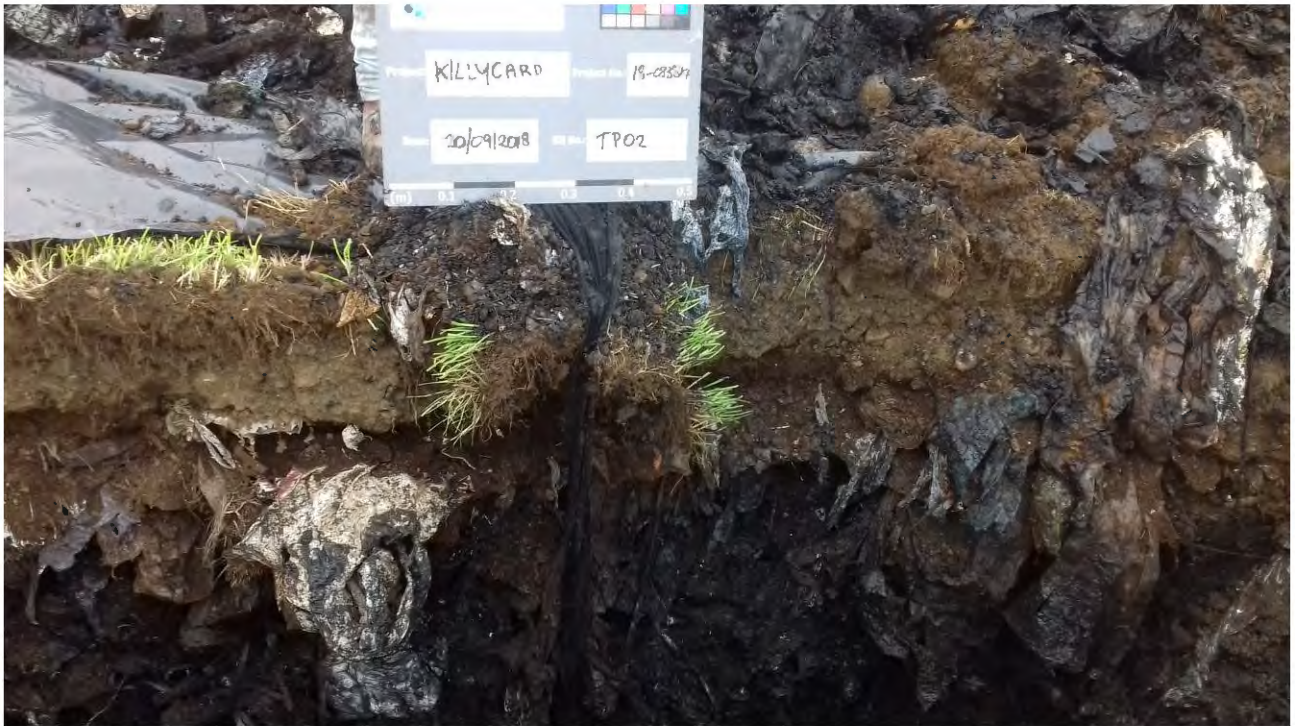
TP02



TP02



TP02



TP02



TP02



TP02