



Priority Geotechnical Ltd.  
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 www.prioritygeotechnical.ie

Trial Pit No  
**TP11**  
 Sheet 1 of 1

**Project Name:** Scotch Corner Landfill      **Project No.:** P18175      **Co-ords:** 275166E - 325207N  
**Level:** 124.52m OD      **Date:** 20/09/2018

**Location:** Castleblaney, Co. Monaghan      **Dimensions (m):** 2.90

**Client:** Monaghan County Council      **Depth:** 3.00m BGL      **Scale:** 1:25  
**Logged:** PH

Water Strike & Backfill	Samples & In Situ Testing			Depth (m)	Level (m OD)	Legend	Stratum Description
	Depth (m)	Type	Results				
				0.20	124.32		(TOPSOIL)
				0.80	123.72		Grey, sandy GRAVEL. Sand is fine to coarse. Gravel is fine to coarse, angular to sub-angular.
				3.00	121.52		Blue grey, slightly sandy gravelly CLAY. Sand is fine to coarse. Gravel is fine to coarse, sub-angular to sub-rounded. <i>0.80m - 1.50m: Minor amounts of plastic.</i>
							End of Pit at 3.000m

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**Stability:** Good.      **Groundwater:** 0.3m: Fast flow rate. Surface runoff. 0.80m: Fast flow rate.  
**Plant:** 13t tracked excavator.  
**Backfill:** Arisings.

**Remarks:** TP11 terminated at 3.0m bgl, required depth. Natural ground encountered.



Number:

TP11

**Project**  
**Project No**  
**Engineer**

Scotch Corner Landfill  
P18175  
Fehily Timoney & Company





**Number:**

**TP11**

**Project  
Project No  
Engineer**

Scotch Corner Landfill  
P18175  
Fehily Timoney & Company



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Trial Pit No  
**TP12**  
 Sheet 1 of 1

**Project Name:** Scotch Corner Landfill      **Project No.:** P18175      **Co-ords:** 275230E - 325196N  
**Level:** 124.58m OD      **Date:** 20/09/2018

**Location:** Castleblaney, Co. Monaghan      **Dimensions (m):** 2.50  
 Scale 1:25

**Client:** Monaghan County Council      **Depth:** 1.80m BGL  
 Logged PH

Water Strike & Backfill	Samples & In Situ Testing			Depth (m)	Level (m OD)	Legend	Stratum Description
	Depth (m)	Type	Results				
▼				0.20	124.38		(TOPSOIL) Slightly sandy SILT. Sand is fine to coarse.
							(MADE GROUND) Landfill material. CLAY with plastic, metal and wood.
				1.40	123.18		Grey, slightly sandy gravelly CLAY with medium cobble content and low boulder content. Sand is fine to coarse. Gravel is fine to coarse, angular to sub-angular. Cobbles are angular to sub-angular, 63-200mm dia. Boulders are angular to sub-rounded, 200-300mm dia.
				1.80	122.78		End of Pit at 1.800m

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**Stability:** Poor.      **Groundwater:** 0.95m: Steady flow rate.  
**Plant:** 13t tracked excavator.  
**Backfill:** Arisings

**Remarks:** TP12 terminated at 1.80m bgl, required depth. Natural ground encountered.





**Number:**

**TP12**

**Project  
Project No  
Engineer**

Scotch Corner Landfill  
P18175  
Fehily Timoney & Company





**Number:**

**TP12**

**Project  
Project No  
Engineer**

Scotch Corner Landfill  
P18175  
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Trial Pit No  
**TP13**  
 Sheet 1 of 1

<b>Project Name:</b> Scotch Corner Landfill	<b>Project No.:</b> P18175	<b>Co-ords:</b> 275189E - 325245N <b>Level:</b> 125.21m OD	<b>Date:</b> 20/09/2018
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<b>Location:</b> Castleblaney, Co. Monaghan	<b>Dimensions (m):</b> 3.00	<b>Scale:</b> 1:25
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<b>Client:</b> Monaghan County Council	<b>Depth:</b> 4.50m BGL	<b>Logged PH</b>
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Water Strike & Backfill	Samples & In Situ Testing			Depth (m)	Level (m OD)	Legend	Stratum Description
	Depth (m)	Type	Results				
	0.10			0.10	125.11		(TOPSIL) (MADE GROUND) Grey brown, slightly sandy gravelly CLAY. Sand is fine to coarse. Gravel is fine to coarse, sub-angular to sub-rounded.
	0.50			0.50	124.71		(MADE GROUND) Landfill material. Plastic, glass, wood, metal and wire.
	3.00	ENV		3.00			
	4.00			4.00	121.21		PEAT
	4.50			4.50	120.71		End of Pit at 4.500m

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<b>Stability:</b> Moderate.	<b>Groundwater:</b> 2.70m: Fast flow rate.
<b>Plant:</b> 13t tracked excavator.	
<b>Backfill:</b> Arisings.	

**Remarks:** TP13 terminated at 4.5m bgl, required depth.





**Number:**

**TP13**

**Project  
Project No  
Engineer**

Scotch Corner Landfill  
P18175  
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**Number:**

**TP13**

**Project  
Project No  
Engineer**

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Trial Pit No  
**TP14**  
 Sheet 1 of 1

**Project Name:** Scotch Corner Landfill      **Project No.:** P18175      **Co-ords:** 275285E - 325229N  
**Level:** 125.81m OD      **Date:** 20/09/2018

**Location:** Castleblaney, Co. Monaghan      **Dimensions (m):** 2.50  
 1.10

**Client:** Monaghan County Council      **Depth:** 0.65m BGL      **Scale:** 1:25  
**Logged:** PH

Water Strike & Backfill	Samples & In Situ Testing			Depth (m)	Level (m OD)	Legend	Stratum Description
	Depth (m)	Type	Results				
Water Strike & Backfill				0.30	125.51		(TOPSOIL) Sandy SILT.
				0.65	125.16		Brown, slightly gravelly sandy CLAY. Sand is fine to coarse. Gravel is fine to coarse, sub-angular to sub-rounded.
							End of Pit at 0.650m

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**Stability:** Good.      **Groundwater:** None encountered.  
**Plant:** 13t tracked excavator.  
**Backfill:** Arising

**Remarks:** TP14 terminated at 0.65m bgl, assumed bedrock.





**Number:**

**TP14**

**Project**  
**Project No**  
**Engineer**

Scotch Corner Landfill  
P18175  
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Trial Pit No  
**TP15**  
 Sheet 1 of 1

**Project Name:** Scotch Corner Landfill      **Project No.:** P18175      **Co-ords:** 275215E - 325292N  
**Level:** 125.66m OD      **Date:** 20/09/2018

**Location:** Castleblaney, Co. Monaghan      **Dimensions (m):** 4.20

**Client:** Monaghan County Council      **Depth:** 4.20m BGL      **Scale:** 1:25  
**Logged PH**

Water Strike & Backfill	Samples & In Situ Testing			Depth (m)	Level (m OD)	Legend	Stratum Description
	Depth (m)	Type	Results				
				0.10	125.56		(TOPSOIL)
				0.70	124.96		(MADE GROUND) Brown grey, slightly sandy gravelly CLAY. Sand is fine to coarse, sub-angular to sub-rounded.
							(MADE GROUND) Landfill material. Plastic, glass, timber and metal.
				3.90	121.76		PEAT
				4.20	121.46		End of Pit at 4.200m

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**Stability:** Moderate.      **Groundwater:** 3.10m: Steady flow rate.  
**Plant:** 13t tracked excavator.  
**Backfill:** Arisings.

**Remarks:** TP15 terminated at 4.2m bgl, required depth. Natural ground encountered.





**Number:**

**TP15**

**Project  
Project No  
Engineer**

Scotch Corner Landfill  
P18175  
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**Number:**

**TP15**

**Project  
Project No  
Engineer**

Scotch Corner Landfill  
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Trial Pit No  
**TP16**  
 Sheet 1 of 1

**Project Name:** Scotch Corner Landfill      **Project No.:** P18175      **Co-ords:** 275283E - 325291N  
**Level:** 126.51m OD      **Date:** 20/09/2018

**Location:** Castleblaney, Co. Monaghan      **Dimensions (m):** 2.70  
 1.10

**Client:** Monaghan County Council      **Depth:** 3.00m BGL      **Scale:** 1:25  
**Logged:** PH

Water Strike & Backfill	Samples & In Situ Testing			Depth (m)	Level (m OD)	Legend	Stratum Description
	Depth (m)	Type	Results				
				0.15	126.36	(TOPSOIL)	
				0.70	125.81	(MADE GROUND) Grey, slightly sandy gravelly CLAY with low cobble content. Sand is fine to coarse. Gravel is fine to coarse, sub-angular to sub-rounded.	1
				2.30	124.21	(MADE GROUND) Landfill material. Plastic, glass, metal and wood. Strong odour noted.	2
				2.30	124.21	Grey, slightly sandy gravelly CLAY. Sand is fine to coarse. Gravel is fine to coarse, sub-angular to sub-rounded.	3
				3.00	123.51	End of Pit at 3.000m	4

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**Stability:** Moderate.      **Groundwater:** 2.30m: Slow flow rate.  
**Plant:** 13t tracked excavator.  
**Backfill:** Arisings.

**Remarks:** TP16 terminated at 3.00m bgl, required depth.





**Number:**

**TP16**

**Project  
Project No  
Engineer**

Scotch Corner Landfill  
P18175  
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**Number:**

**TP16**

**Project  
Project No  
Engineer**

Scotch Corner Landfill  
P18175  
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Trial Pit No  
**TP17**  
 Sheet 1 of 1

<b>Project Name:</b> Scotch Corner Landfill	<b>Project No.:</b> P18175	<b>Co-ords:</b> 275362E - 325225N <b>Level:</b> 127.70m OD	<b>Date:</b> 20/09/2018
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<b>Location:</b> Castleblaney, Co. Monaghan	<b>Dimensions (m):</b> 	<b>Scale:</b> 1:25
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<b>Client:</b> Monaghan County Council	<b>Depth:</b> 1.80m BGL	<b>Logged PH</b>
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Water Strike & Backfill	Samples & In Situ Testing			Depth (m)	Level (m OD)	Legend	Stratum Description
	Depth (m)	Type	Results				
				0.20	127.50		(TOPSOIL) Brown, slightly sandy SILT.
							Brown grey, slightly sandy gravelly CLAY with low cobble content and low boulder content. Sand is fine to coarse. Gravel is fine to coarse, sub-angular to sub-rounded. Cobbles are sub-angular to sub-rounded, 63-200mm dia. Boulders are sub-angular to sub-rounded, 200-300mm dia.
				1.80	125.90		End of Pit at 1.800m

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<b>Stability:</b> Good.	<b>Groundwater:</b> None encountered.
<b>Plant:</b> 13t tracked excavator.	
<b>Backfill:</b> Arisings.	

**Remarks:** TP17 terminated at 1.80m bgl, assumed bedrock obstruction.





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**Number:**

**TP17**

**Project  
Project No  
Engineer**

Scotch Corner Landfill  
P18175  
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<b>Number:</b> TP17	<b>Project</b> Scotch Corner Landfill <b>Project No</b> P18175 <b>Engineer</b> Fehily Timoney & Company	
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Trial Pit No  
**TP18**  
 Sheet 1 of 1

<b>Project Name:</b> Scotch Corner Landfill	<b>Project No.:</b> P18175	<b>Co-ords:</b> 275338E - 325188N <b>Level:</b> 126.55m OD	<b>Date:</b> 20/09/2018
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<b>Location:</b> Castleblaney, Co. Monaghan	<b>Dimensions (m):</b>	<b>Scale:</b> 1:25
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<b>Client:</b> Monaghan County Council	<b>Depth:</b> 2.80m BGL	<b>Logged:</b> PH
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Water Strike & Backfill	Samples & In Situ Testing			Depth (m)	Level (m OD)	Legend	Stratum Description	
	Depth (m)	Type	Results					
				0.50	126.05		(TOPSOIL) Brown, sandy SILT. Sand is fine to coarse.	
				1.20	125.35		Grey brown, slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is fine to coarse, sub-angular to sub-rounded.	1
				2.80	123.75		Blue grey, slightly sandy slightly gravelly CLAY with low cobble content and low boulder content. Sand is fine to coarse. Gravel is fine to coarse, sub-angular to sub-rounded. Cobbles are sub-angular to sub-rounded, 63-200mm dia. Boulders are sub-angular to sub-rounded, 200-550mm dia.	2
							End of Pit at 2.800m	3
								4
								5

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<b>Stability:</b> Good.	<b>Groundwater:</b> 0.60m: Slow flow rate.
<b>Plant:</b> 13t tracked excavator.	
<b>Backfill:</b> Arisings.	

**Remarks:** TP18 terminated at 2.80m bgl, required depth. No landfill material encountered.



Number:

TP18

**Project**  
**Project No**  
**Engineer**

Scotch Corner Landfill  
P18175  
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**Number:**

**TP18**

**Project  
Project No  
Engineer**

Scotch Corner Landfill  
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## APPENDIX B: LABORATORY RESULTS

Chemtest UK Ltd. Report No: 18-29228-2

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## Amended Report

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**Report No.:** 18-29228-2

**Initial Date of Issue:** 03-Oct-2018      **Date of Re-Issue:** 03-Oct-2018

**Client:** Priority Geotechnical Ltd

**Client Address:** Unit 12  
Owenacurra Business Park  
Midleton  
County Cork  
Ireland

**Contact(s):** Colette Kelly

**Project:** P18175 Scotch Corner

**Quotation No.:**      **Date Received:** 25-Sep-2018


**Order No.:** 11073      **Date Instructed:** 25-Sep-2018

**No. of Samples:** 3

**Turnaround (Wkdays):** 5      **Results Due:** 01-Oct-2018

**Date Approved:** 03-Oct-2018

**Approved By:**



**Details:** Martin Dyer, Laboratory Manager

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**Project: P18175 Scotch Corner**

Client: Priority Geotechnical Ltd	Chemtest Job No.:				18-29228	18-29228	18-29228
Quotation No.:	Chemtest Sample ID.:				694540	694541	694542
	Sample Location:				TP01	TP08	TP13
	Sample Type:				SOIL	SOIL	SOIL
	Top Depth (m):				3.50	1.50	3.00
	Date Sampled:				21-Sep-2018	21-Sep-2018	21-Sep-2018
Determinand	Accred.	SOP	Units	LOD			
Moisture	N	2030	%	0.020	47	28	48
Dry Matter	N		%	N/A	53	72	52

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## Results - Single Stage WAC

Project: P18175 Scotch Corner

Chemtest Job No: 18-29228				Landfill Waste Acceptance Criteria			
Chemtest Sample ID: 694540				Limits			
Sample Ref:					Inert Waste Landfill	Stable, Non- reactive hazardous waste in non- hazardous Landfill	Hazardous Waste Landfill
Sample ID:							
Sample Location: TP01							
Top Depth(m): 3.50							
Bottom Depth(m):							
Sampling Date: 21-Sep-2018							
Determinand	SOP	Accred.	Units				
Total Organic Carbon	2625	U	%	7.3	3	5	6
Loss On Ignition	2610	U	%	12	--	--	10
Total BTEX	2760	U	mg/kg	< 0.010	6	--	--
Total PCBs (7 Congeners)	2815	U	mg/kg	< 0.10	1	--	--
TPH Total WAC (Mineral Oil)	2670	U	mg/kg	< 10	500	--	--
Total (Of 17) PAH's	2700	N	mg/kg	< 2.0	100	--	--
pH	2010	U		7.6	--	>6	--
Acid Neutralisation Capacity	2015	N	mol/kg	0.014	--	To evaluate	To evaluate
Eluate Analysis			10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1450	U	0.0014	< 0.050	0.5	2	25
Barium	1450	U	0.012	< 0.50	20	100	300
Cadmium	1450	U	< 0.00010	< 0.010	0.04	1	5
Chromium	1450	U	< 0.0010	< 0.050	0.5	10	70
Copper	1450	U	< 0.0010	< 0.050	2	50	100
Mercury	1450	U	< 0.00050	< 0.0050	0.01	0.2	2
Molybdenum	1450	U	0.0019	< 0.050	0.5	10	30
Nickel	1450	U	< 0.0010	< 0.050	0.4	10	40
Lead	1450	U	< 0.0010	< 0.010	0.5	10	50
Antimony	1450	U	< 0.0010	< 0.010	0.06	0.7	5
Selenium	1450	U	< 0.0010	< 0.010	0.1	0.5	7
Zinc	1450	U	< 0.0010	< 0.50	4	50	200
Chloride	1220	U	1.4	14	800	15000	25000
Fluoride	1220	U	0.11	1.1	10	150	500
Sulphate	1220	U	21	210	1000	20000	50000
Total Dissolved Solids	1020	N	85	810	4000	60000	100000
Phenol Index	1920	U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610	U	15	150	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	47

### Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

## Results - Single Stage WAC

Project: P18175 Scotch Corner

Chemtest Job No: 18-29228				Landfill Waste Acceptance Criteria			
Chemtest Sample ID: 694541				Limits			
Sample Ref:					Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID:							
Sample Location: TP08							
Top Depth(m): 1.50							
Bottom Depth(m):							
Sampling Date: 21-Sep-2018							
Determinand	SOP	Accred.	Units				
Total Organic Carbon	2625	U	%	7.2	3	5	6
Loss On Ignition	2610	U	%	14	--	--	10
Total BTEX	2760	U	mg/kg	0.066	6	--	--
Total PCBs (7 Congeners)	2815	U	mg/kg	< 0.10	1	--	--
TPH Total WAC (Mineral Oil)	2670	U	mg/kg	930	500	--	--
Total (Of 17) PAH's	2700	N	mg/kg	< 2.0	100	--	--
pH	2010	U		8.0	--	>6	--
Acid Neutralisation Capacity	2015	N	mol/kg	0.0070	--	To evaluate	To evaluate
Eluate Analysis			10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1450	U	0.0018	< 0.050	0.5	2	25
Barium	1450	U	0.0068	< 0.50	20	100	300
Cadmium	1450	U	< 0.0010	< 0.010	0.04	1	5
Chromium	1450	U	< 0.0010	< 0.050	0.5	10	70
Copper	1450	U	0.0010	< 0.050	2	50	100
Mercury	1450	U	< 0.00050	< 0.0050	0.01	0.2	2
Molybdenum	1450	U	0.0022	< 0.050	0.5	10	30
Nickel	1450	U	0.0014	< 0.050	0.4	10	40
Lead	1450	U	< 0.0010	< 0.010	0.5	10	50
Antimony	1450	U	< 0.0010	< 0.010	0.06	0.7	5
Selenium	1450	U	< 0.0010	< 0.010	0.1	0.5	7
Zinc	1450	U	0.0013	< 0.50	4	50	200
Chloride	1220	U	5.1	51	800	15000	25000
Fluoride	1220	U	2.8	28	10	150	500
Sulphate	1220	U	24	240	1000	20000	50000
Total Dissolved Solids	1020	N	110	1100	4000	60000	100000
Phenol Index	1920	U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610	U	11	110	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	28

### Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.



## Results - Single Stage WAC

**Project: P18175 Scotch Corner**

Chemtest Job No: 18-29228				Landfill Waste Acceptance Criteria			
Chemtest Sample ID: 694542				Limits			
Sample Ref:					Inert Waste Landfill	Stable, Non- reactive hazardous waste in non- hazardous Landfill	Hazardous Waste Landfill
Sample ID:							
Sample Location: TP13							
Top Depth(m): 3.00							
Bottom Depth(m):							
Sampling Date: 21-Sep-2018							
Determinand	SOP	Accred.	Units				
Total Organic Carbon	2625	U	%	11	3	5	6
Loss On Ignition	2610	U	%	38	--	--	10
Total BTEX	2760	U	mg/kg	2.6	6	--	--
Total PCBs (7 Congeners)	2815	U	mg/kg	< 0.10	1	--	--
TPH Total WAC (Mineral Oil)	2670	U	mg/kg	< 10	500	--	--
Total (Of 17) PAH's	2700	N	mg/kg	< 2.0	100	--	--
pH	2010	U		8.1	--	>6	--
Acid Neutralisation Capacity	2015	N	mol/kg	0.0080	--	To evaluate	To evaluate
Eluate Analysis			10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1450	U	0.0015	< 0.050	0.5	2	25
Barium	1450	U	0.012	< 0.50	20	100	300
Cadmium	1450	U	< 0.0010	< 0.010	0.04	1	5
Chromium	1450	U	< 0.0010	< 0.050	0.5	10	70
Copper	1450	U	0.0019	< 0.050	2	50	100
Mercury	1450	U	< 0.00050	< 0.0050	0.01	0.2	2
Molybdenum	1450	U	0.0020	< 0.050	0.5	10	30
Nickel	1450	U	< 0.0010	< 0.050	0.4	10	40
Lead	1450	U	< 0.0010	< 0.010	0.5	10	50
Antimony	1450	U	0.0040	0.040	0.06	0.7	5
Selenium	1450	U	< 0.0010	< 0.010	0.1	0.5	7
Zinc	1450	U	< 0.0010	< 0.50	4	50	200
Chloride	1220	U	2.6	26	800	15000	25000
Fluoride	1220	U	0.14	1.4	10	150	500
Sulphate	1220	U	39	390	1000	20000	50000
Total Dissolved Solids	1020	N	100	990	4000	60000	100000
Phenol Index	1920	U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610	U	15	150	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	48

### Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

SOP	Title	Parameters included	Method summary
1020	Electrical Conductivity and Total Dissolved Solids (TDS) in Waters	Electrical Conductivity and Total Dissolved Solids (TDS) in Waters	Conductivity Meter
1220	Anions, Alkalinity & Ammonium in Waters	Fluoride; Chloride; Nitrite; Nitrate; Total; Oxidisable Nitrogen (TON); Sulfate; Phosphate; Alkalinity; Ammonium	Automated colorimetric analysis using 'Aquakem 600' Discrete Analyser.
1450	Metals in Waters by ICP-MS	Metals, including: Antimony; Arsenic; Barium; Beryllium; Boron; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Tin; Vanadium; Zinc	Filtration of samples followed by direct determination by inductively coupled plasma mass spectrometry (ICP-MS).
1610	Total/Dissolved Organic Carbon in Waters	Organic Carbon	TOC Analyser using Catalytic Oxidation
1920	Phenols in Waters by HPLC	Phenolic compounds including: Phenol, Cresols, Xylenols, Trimethylphenols Note: Chlorophenols are excluded.	Determination by High Performance Liquid Chromatography (HPLC) using electrochemical detection.
2010	pH Value of Soils	pH	pH Meter
2015	Acid Neutralisation Capacity	Acid Reserve	Titration
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <37°C.
2610	Loss on Ignition	loss on ignition (LOI)	Determination of the proportion by mass that is lost from a soil by ignition at 550°C.
2625	Total Organic Carbon in Soils	Total organic Carbon (TOC)	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.
2670	Total Petroleum Hydrocarbons (TPH) in Soils by GC-FID	TPH (C6–C40); optional carbon banding e.g. 3-band – GRO, DRO & LRO*TPH C8–C40	Dichloromethane extraction / GC-FID
2700	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-FID	Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenz[ah]Anthracene; Fluoranthene; Fluorene; Indeno[123cd]Pyrene; Naphthalene; Phenanthrene; Pyrene	Dichloromethane extraction / GC-FID
2760	Volatile Organic Compounds (VOCs) in Soils by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics.(cf. USEPA Method 8260)*please refer to UKAS schedule	Automated headspace gas chromatographic (GC) analysis of a soil sample, as received, with mass spectrometric (MS) detection of volatile organic compounds.
2815	Polychlorinated Biphenyls (PCB) ICES7Congeners in Soils by GC-MS	ICES7 PCB congeners	Acetone/Hexane extraction / GC-MS
640	Characterisation of Waste (Leaching)	Waste material including soil, sludges and granular waste	ComplianceTest for Leaching of Granular Waste Material and Sludge



## Report Information

### **Key**

---

- U UKAS accredited
- M MCERTS and UKAS accredited
- N Unaccredited
- S This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
- SN This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
- T This analysis has been subcontracted to an unaccredited laboratory
- I/S Insufficient Sample
- U/S Unsuitable Sample
- N/E not evaluated
- < "less than"
- > "greater than"

Comments or interpretations are beyond the scope of UKAS accreditation

The results relate only to the items tested

Uncertainty of measurement for the determinands tested are available upon request

None of the results in this report have been recovery corrected

All results are expressed on a dry weight basis

The following tests were analysed on samples as received and the results subsequently corrected to a dry weight basis TPH, BTEX, VOCs, SVOCs, PCBs, Phenols

For all other tests the samples were dried at < 37°C prior to analysis

All Asbestos testing is performed at the indicated laboratory

Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1

### **Sample Deviation Codes**

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- A - Date of sampling not supplied
- B - Sample age exceeds stability time (sampling to extraction)
- C - Sample not received in appropriate containers
- D - Broken Container
- E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

### **Sample Retention and Disposal**

---

All soil samples will be retained for a period of 45 days from the date of receipt

All water samples will be retained for 14 days from the date of receipt

Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:

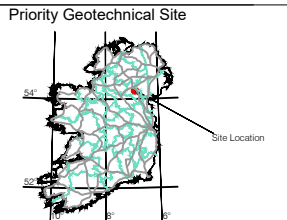
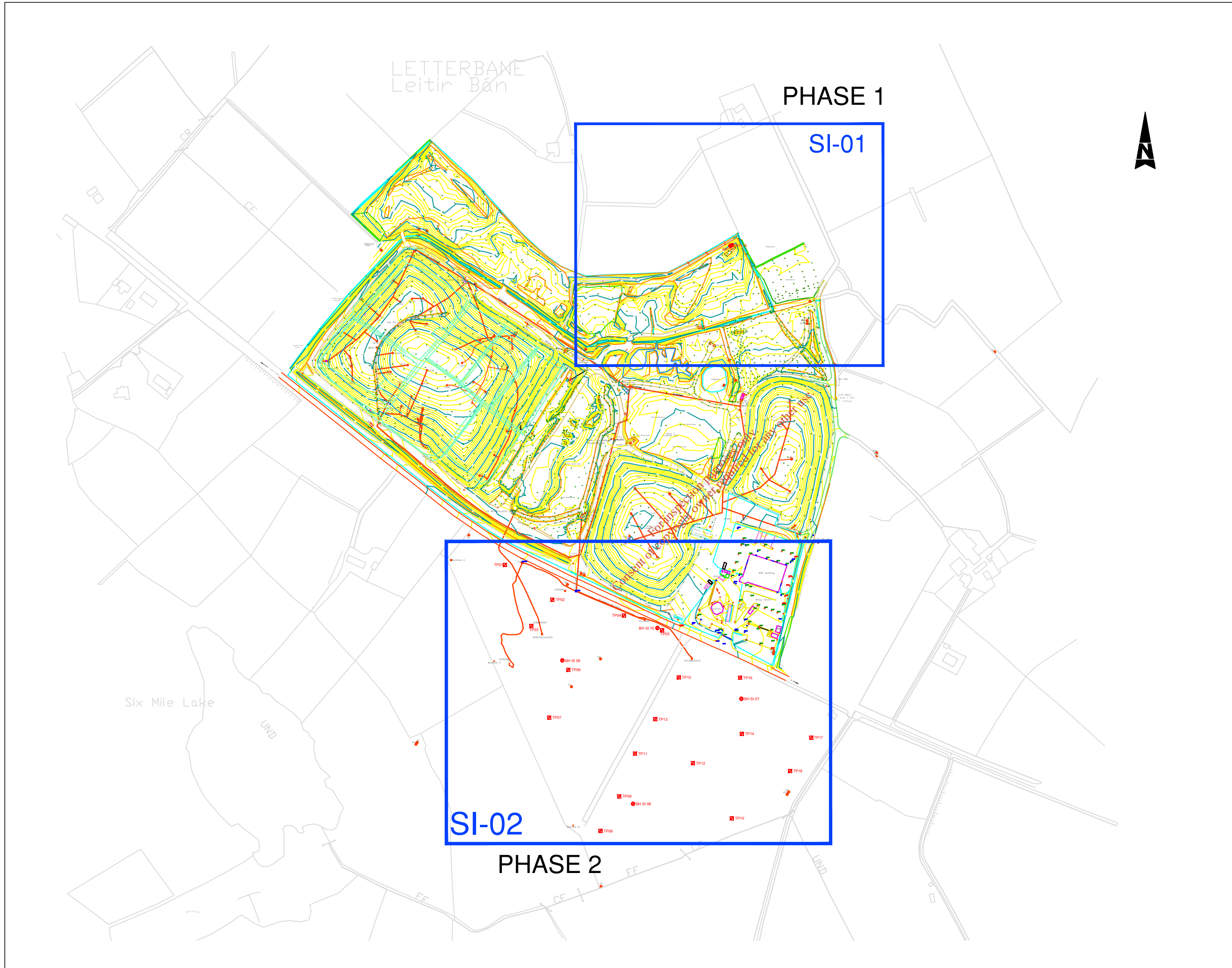
[customerservices@chemtest.com](mailto:customerservices@chemtest.com)

## APPENDIX C: EXPLORATORY LAYOUT PLANS

Location	Easting	Northing	Ground Level (mOD)
BH11	275272	325769.9	125.61
BH11A	275273.9	325770.7	125.52
BH SI07	275284.2	325267.9	125.93
BH SI08	275164.2	325151.5	124.11
BH SI09	275085.8	325310.4	125.43
BH SI10	275191.2	325346.3	124.45
TP01	275022.1	325416.2	124.76
TP02	275074.8	325377.7	125.81
TP03	275051.6	325348.7	125.63
TP04	275154	325360.1	123.52
TP05	275196.3	325343.9	124.6
TP06	275092.4	325300	125.45
TP07	275071.2	325247	126.66
TP08	275128.1	325121.4	123.94
TP09	275148.9	325159.7	124.07
TP10	275273.7	325135.3	127.4
TP11	275166.4	325207.1	124.52
TP12	275230.5	325196.5	124.58
TP13	275188.7	325245.3	125.21
TP14	275284.8	325229	125.81
TP15	275214.9	325291.6	125.66
TP16	275282.8	325291.2	126.51
TP17	275361.7	325224.7	127.7
TP18	275338.2	325187.9	126.55

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JOB NAME:  
**SCOTCH CORNER  
LANDFILL**

Sheet Title:  
**EXPLORATORY LOCATION  
LAYOUT**

JOB NUMBER:  
**P18175**

DRAWING NUMBER:  
**P18175-SI-A**

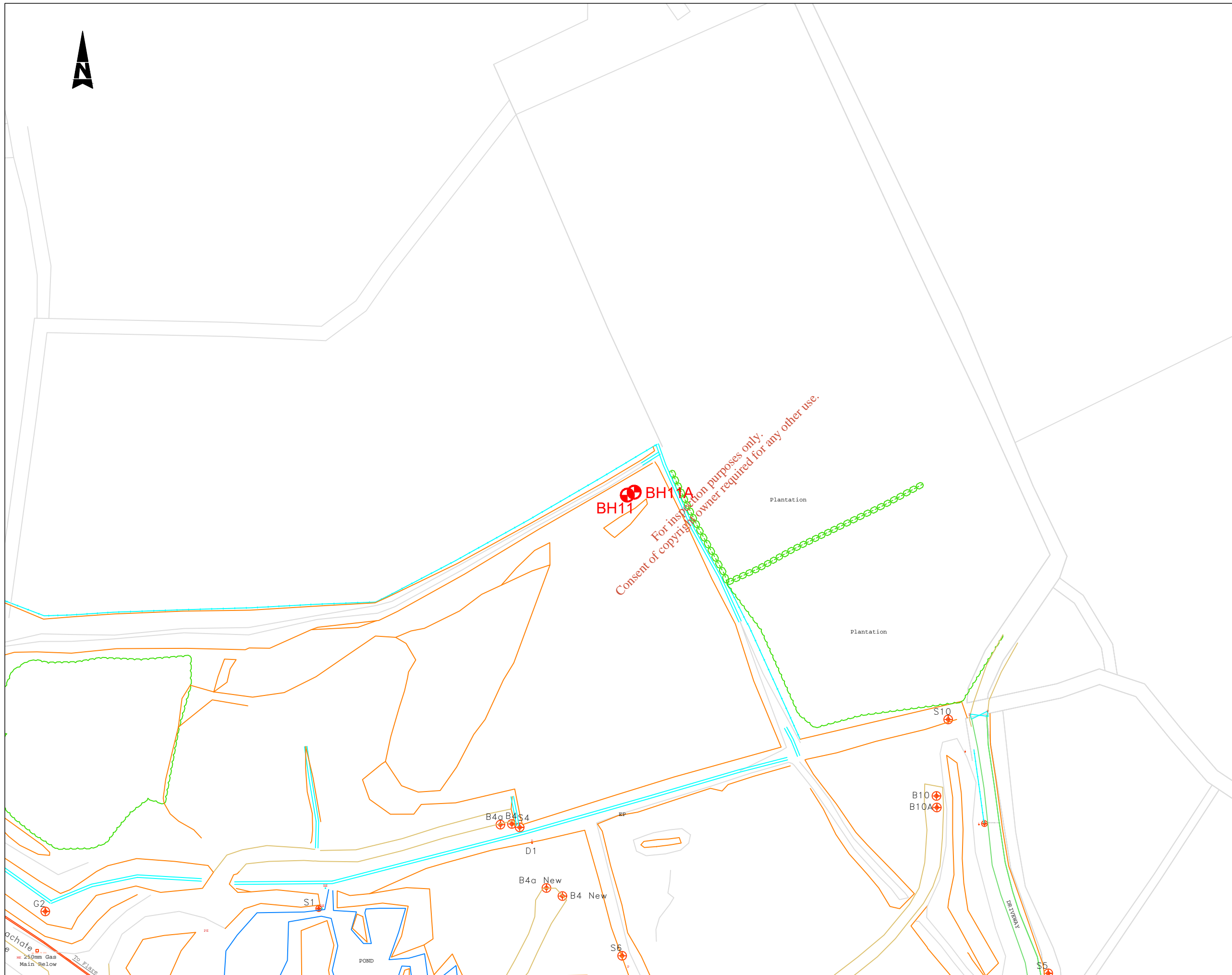
DRAWN BY:  
**Gary Curtin**

DATE:  
**08/08/2018**

SCALE: <b>1:4000 ON A3</b>	APPROVED: <b>GH</b>
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REVISION:  
**D01**





KEY:  
 BH00 Denotes Borehole location

Coordinates shown on ING.  
 BH11 275272 325769.9 125.605  
 BH11a 275273.9 325770.7 125.521

JOB NAME:  
**SCOTCH CORNER  
 LANDFILL Phase 1**

Sheet Title:  
**EXPLORATION LOCATION  
 PLAN**

JOB NUMBER:  
**P18175**

DRAWING NUMBER:  
**P18175-SI-01**

DRAWN BY:  
**Gary Curtin**

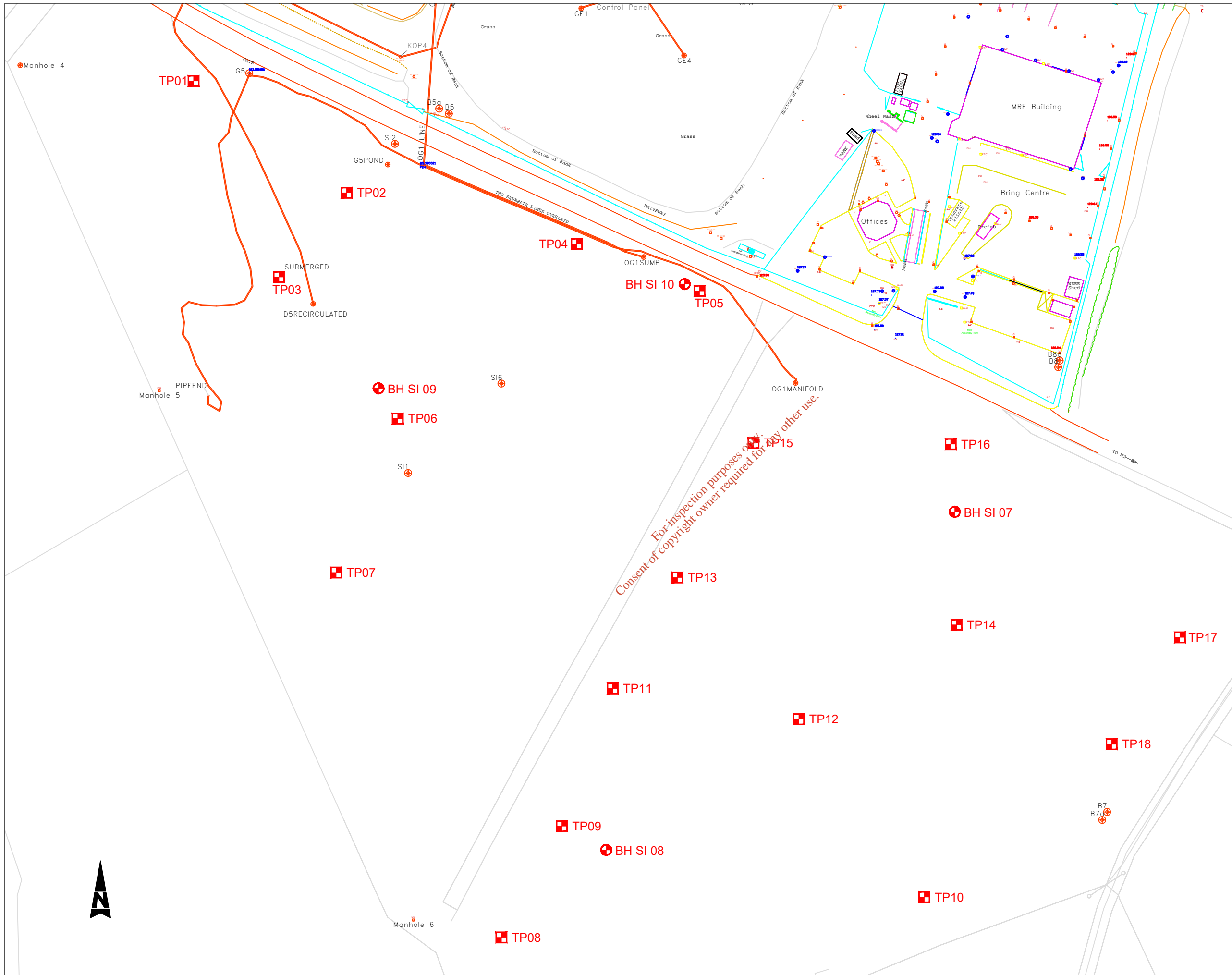
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**08/08/2018**

SCALE: 1:1000 ON A3	APPROVED: GH
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REVISION:  
**D01**







KEY:

- ⊕ BH00 Denotes Borehole location
- ⊞ TP00 Denotes Trial Pit location

Coordinates shown on ING.

TP01	275022.1	325416.2	124.764
TP02	275074.8	325377.7	125.805
TP03	275051.5	325348.7	125.633
TP04	275154	325360.1	123.523
TP05	275196.3	325343.9	124.604
TP06	275092.4	325300	125.451
TP07	275071.2	325247	126.658
TP08	275128.1	325121.4	123.941
TP9	275148.9	325159.7	124.073
TP10	275273.7	325135.3	127.401
TP11	275166.4	325207.1	124.518
TP12	275230.5	325196.5	124.584
TP13	275188.7	325245.3	125.207
TP14	275284.8	325229	125.808
TP15	275214.9	325291.6	125.662
TP16	275282.8	325291.2	126.511
TP17	275361.7	325224.7	127.697
TP18	275338.2	325187.9	126.547
BH SI7	275284.2	325267.9	125.929
BH SI8	275164.2	325151.5	124.107
BH SI9	275085.8	325310.4	125.433
BH SI10	275191.2	325346.3	124.449

JOB NAME:  
**SCOTCH CORNER  
 LANDFILL Phase 2**

Sheet Title:  
**EXPLORATION LOCATION  
 PLAN**

JOB NUMBER:  
**P18175**

DRAWING NUMBER:  
**P18175-SI-02**

DRAWN BY:  
**Gary Curtin**

DATE:  
**12/10/2018**

SCALE: 1:1250 ON A3	APPROVED: GH
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REVISION:  
**D01**



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## REFERENCES

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