

**APPENDIX D**  
**Site Investigation Factual Report**

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Our Ref: GH/Rp/P15180 + attachments (\*.pdf)

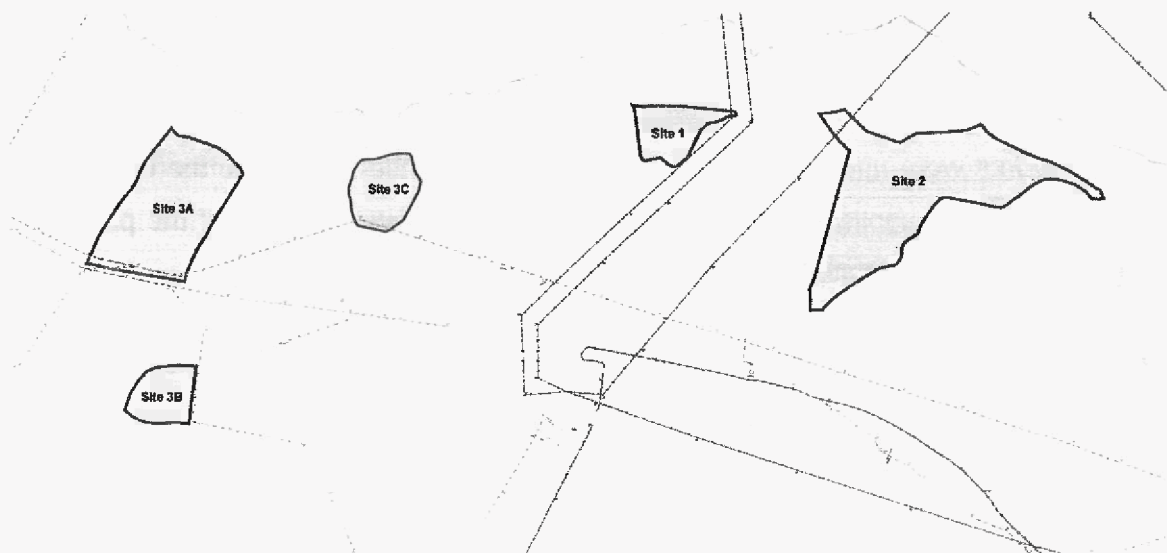
27<sup>th</sup> May, 2016

**Messrs. RPS**  
West Pier Business Campus,  
Dun Laoghaire,  
County Dublin.  
Ireland

**Re: Fassaroe Historic Landfills, Site Investigations, Factual Report**

**Introduction**

In November, 2015, Priority Geotechnical (PGL) were requested by RPS to undertake a direct ground investigation across five (5) number historical landfill sites in Fassaroe, Co. Wicklow.



## Scope

The revised scope of the ground investigation, which was specified by RPS, comprised of the following:

- 28No. trial pit excavations;
- 10No. cable percussion boreholes;
- 47No. rotary boreholes (provisional);
- Installation and monitoring groundwater / ground gas standpipes and
- Factual reporting.

## Objectives

The purpose of the investigation was to install standpipe wells to allow for the monitoring by Others, of groundwater and ground gas.

This factual report presents the records and data obtained with regard to the ground investigation and should be read in conjunction with the exploratory and photographic records accompanying this factual report.

## Site Works

This investigation was carried out in accordance with the contract specification: Eurocode 7- Geotechnical Design Part 2, ground investigation and testing (BS EN 1997-2: 2007) and the relevant British Standards (BS 5930 (1999) Code of Practice for Site Investigation +A2:2010 and BS 1377, Method of Tests for Soil for Civil Engineering Purposes, *in situ* Tests Parts 1 to 9).

The fieldworks were undertaken between the 07<sup>th</sup> December, 2015 and the 01<sup>st</sup> March, 2016 under the supervision of PGL, Engineering Geologist(s). Details of the plant and equipment used are detailed on the relevant exploratory records, attached.



### **Trial pit excavations**

A total of twenty eight (28) number trial pit excavations (TP01 to TP28 inclusive) were excavated to depths of 3.5m below existing ground level (bgl) to 4.5m bgl using a 13t tracked excavator. Trial pits terminated for a variety of reasons, these being outlined on the relevant exploratory records attached, herein.

### **Cable percussion boreholes**

A total of ten (10) cable percussion boreholes (CP) were bored using a Dando 2000 light cable percussive rig with 200mm diameter casing. The records are attached, herein.

Two (2) cable percussion boreholes (LG<sup>1</sup>17 and LG21) were bored to depths between 5.5m bgl and 5.7m bgl. These boreholes were terminated after one (1) hour of chiseling on obstructions within the municipal solid (MSW) and mixed waste.

A further eight (8) number cable percussion boreholes (LG02, LG04, LG07, LG10, LG11, LG14, LG15 and LG19) were bored to depths 0.5m bgl (LG11) to 10.7m bgl. The boreholes were terminated after one (1) hour of chiseling (on obstructions within the MSW. These were subsequently followed on with rotary open-hole drilling.

### **Rotary boreholes**

Fifty five (55<sup>2</sup>) rotary boreholes (LG01, LG02, LG03, LG04, LG05, LG06, LG07, LG08, LG09, LG10, LG11, LG12, LG13, LG14, LG15, LG16, LG18, LG19 and LG20; BH<sup>3</sup>01, BH03, BH04, BH05, BH06, BH07, BH08, BH09, BH10, BH11 and BH13; G<sup>4</sup>01, G02, G03, G04, G05, G06, G07, G08, G09, G10, G11, G12, G13, G14, G15, G16, G17, G18, G19, G20, G21, G22, G23, G24 and G25) were drilled by Symmetrex open hole boring (RO/RC), to depths between 6.0m bgl and 35.0m bgl using a PGL's Deltabase 520, 6t rotary rig. The records are attached, herein.

### **Survey and Drawings**

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<sup>1</sup> LG combined gas/ leachate monitoring well

<sup>2</sup> 47 No. rotary boreholes with 8No. cable percussion with subsequent rotary follow-on shown in *italic*, 55No. in total.

<sup>3</sup> BH combined groundwater/ gas monitoring well

<sup>4</sup> G gas monitoring well

Upon completion of the fieldworks, the 'as built' exploration locations were surveyed using Trimble 5700/5800 GPS equipment to the Ordinance Survey Irish Transverse Mercator system of co-ordinates (ITM) and elevations (existing ground level) to Malin Head datum. The exploratory locations were shown on the Exploratory Location Plan (dwg. P15180-SI-A, P15180-SI-01 and P15180-SI-02, attached).

## SUMMARY OF GROUND INVESTIGATION

Location	Easting	Northing	Ground level mOD, Malin	Depth, m bgl	Start date dd/mm/yyyy	Borehole type
BH01	723751.99	718464.30	79.22	21.00	04/02/2016	RO
BH03	723833.94	718313.09	78.65	19.50	04/02/2016	RO
BH04	723658.95	718159.83	84.41	25.50	17/02/2016	RO
BH05	723381.97	718381.36	96.06	35.00	27/01/2016	RO
BH06	723028.34	718310.42	95.27	14.00	17/02/2016	RO
BH07	722641.50	718220.00	106.11	21.00	09/02/2016	RO
BH08	722752.55	718129.88	98.80	13.50	09/02/2016	RO
BH09	722746.09	718179.23	97.97	12.00	09/02/2016	RO
BH10	722791.60	718279.04	99.31	14.00	11/02/2016	RO
BH11	723802.55	718268.99	82.65	33.00	24/02/2016	RO
BH13	723633.99	718448.25	87.99	19.50	03/02/2016	RO
G01	723757.16	718233.48	84.99	19.30	23/02/2016	RO
G02	723906.63	718311.72	72.66	19.50	03/02/2016	RO
G03	723983.99	718344.07	69.50	19.50	08/02/2016	RO
G04	723640.81	718281.92	85.62	20.00	22/01/2016	RO
G05	723638.54	718344.71	86.72	20.00	27/01/2016	RO
G06	723574.11	718441.69	90.99	12.00	26/01/2016	RO
G07	723368.28	718433.97	93.03	14.00	28/01/2016	RO
G08	723306.94	718326.45	94.29	14.00	29/01/2016	RO
G09	723094.22	718349.84	93.56	15.00	17/02/2016	RO
G10	723333.19	718171.75	98.86	20.00	04/02/2016	RO
G11	722977.05	718343.28	97.21	15.00	18/02/2016	RO
G12	722830.39	718345.89	98.91	14.00	12/02/2016	RO
G13	724005.71	718058.48	75.82	20.00	26/02/2016	RO
G14	722815.16	718240.44	98.62	14.00	11/02/2016	RO
G15	722795.09	718080.09	99.17	6.00	08/02/2016	RO
G16	722652.69	718073.96	100.38	6.00	08/02/2016	RO
G17	722714.71	718133.46	98.42	6.00	08/02/2016	RO
G18	723510.87	718384.05	93.73	14.00	01/02/2016	RO
G19	723436.56	718295.62	98.24	14.00	02/02/2016	RO

Location	Easting	Northing	Ground level mOD, Malin	Depth, m bgl	Start date dd/mm/yyyy	Borehole type
G20	723622.08	718199.83	85.55	27.00	02/02/2016	RO
G21	723750.29	718164.27	86.66	20.00	23/02/2016	RO
G22	724131.18	717889.25	63.68	20.00	01/03/2016	RO
G23	723934.27	717921.64	78.95	20.00	29/02/2016	RO
G24	723786.07	718048.15	86.83	20.00	25/02/2016	RO
G25	723664.35	718398.59	85.64	34.00	03/02/2016	RO
LG01	723643.77	718221.92	83.76	16.00	21/01/2016	RO
LG02	723692.44	718261.44	83.19	12.00	11/02/2016	CP+RO
LG03	723751.30	718307.50	82.25	29.00	20/01/2016	RO
LG04	723728.58	718362.08	81.88	18.00	10/02/2016	CP+RO
LG05	723787.00	718340.40	80.14	25.50	15/01/2016	RO
LG06	723716.45	718432.32	82.68	17.50	20/01/2016	RO
LG07	723798.30	718404.52	74.87	17.50	10/02/2016	CP+RO
LG08	723854.76	718376.73	70.77	19.50	29/01/2016	RO
LG09	723827.26	718410.84	71.06	25.50	02/02/2016	RO
LG10	723905.21	718400.28	66.37	21.00	08/02/2016	CP+RO
LG11	723425.30	718455.26	95.37	17.00	18/02/2016	CP+RO
LG12	723436.86	718445.09	95.96	24.00	27/01/2015	RO
LG13	723466.52	718463.67	96.05	20.00	22/02/2016	RO
LG14	723040.80	718343.19	93.44	23.00	15/02/2016	CP+RO
LG15	722726.87	718288.02	103.97	20.00	17/02/2016	CP+RO
LG16	722747.85	718100.42	99.52	16.00	04/02/2016	RO
LG17	722707.07	718059.11	100.51	5.50	18/02/2016	CP
LG18	723040.16	718381.47	92.42	22.00	15/02/2016	RO
LG19	722742.40	718394.04	103.90	26.00	16/02/2016	CP+RO
LG20	722760.54	718333.71	103.82	23.00	10/02/2016	RO
LG21	722746.33	718045.61	100.58	5.70	17/02/2016	CP
TP01	723682.650	718266.990	83.330	4.40	07/12/2015	TP
TP02	723757.630	718269.220	83.070	4.50	07/12/2015	TP
TP03	723683.290	718342.000	83.580	4.60	07/12/2015	TP
TP04	723757.610	718343.860	81.520	4.50	07/12/2015	TP
TP05	723698.180	718417.170	83.950	4.50	08/12/2015	TP
TP06	723755.250	718417.290	80.070	4.00	08/12/2015	TP
TP07	723831.840	718416.680	70.030	4.50	08/12/2015	TP
TP08	723833.740	718361.200	73.400	4.50	08/12/2015	TP
TP09	723908.990	718418.510	64.870	4.50	08/12/2015	TP
TP10	723909.820	718348.090	69.450	4.50	08/12/2015	TP
TP11	723982.100	718386.820	65.940	4.50	08/12/2015	TP

Location	Easting	Northing	Ground level mOD, Malin	Depth, m bgl	Start date dd/mm/yyyy	Borehole type
TP12	723414.490	718450.110	95.190	4.50	08/12/2015	TP
TP13	723458.970	718444.410	96.120	4.50	08/12/2015	TP
TP14	723414.970	718423.270	95.650	4.50	08/12/2015	TP
TP15	723447.720	718424.380	96.270	4.50	08/12/2015	TP
TP16	723014.000	718380.990	92.170	4.50	09/12/2015	TP
TP17	723040.130	718358.270	93.520	4.50	09/12/2015	TP
TP18	723014.330	718340.980	93.960	4.50	09/12/2015	TP
TP19	723059.400	718333.160	92.690	4.50	09/12/2015	TP
TP20	722705.010	718384.460	105.130	4.50	10/12/2015	TP
TP21	722764.010	718385.630	103.150	4.50	10/12/2015	TP
TP22	722808.050	718372.090	102.300	4.50	10/12/2015	TP
TP23	722761.860	718310.220	103.650	4.50	09/12/2015	TP
TP24	722687.960	718312.140	105.530	4.50	10/12/2015	TP
TP25	722707.430	718045.320	100.980	4.50	10/12/2015	TP
TP26	722708.270	718080.970	99.720	4.50	10/12/2015	TP
TP27	722758.680	718109.210	99.540	4.50	10/12/2015	TP
TP28	722757.060	718081.290	99.580	3.50	10/12/2015	TP

### Sampling

No sampling was required.

### In-situ testing

No *in situ* testing was required.

### Laboratory Testing

No laboratory testing was required.

### Published Geology

The geology of the study area (GSI 1:100,000 mapping Sheet 16) is characterised by the Maulin Formation, (MN) described as dark blue-grey Slate, Phyllite and Schist. And the Glencullen River Formation (GL) described as buff-coloured Tuff and Greywacke. The formations are delineated by a geological fault structure. A geological thrust feature lay immediately south of the study area. Teagasc subsoil mapping indicates that the area is underlain by glaciofluvial sands and gravels.

### Ground conditions



Waste was encountered to depths up to 19m below existing ground level (bgl). This was underlain by CLAY and SAND and GRAVEL deposits to depths up to 35m bgl.

The full details of the ground conditions encountered are provided for on the exploratory records accompanying this report. The records provide descriptions, in accordance with BS 5930 (1999) +A2: 2010 and Eurocode 7, Geotechnical Investigation and Testing, Identification and classification of soils, Part 1, Identification and description (EN ISO 14688-1: 2002),– Identification and Classification of Soil, Part 2: Classification Principles (EN ISO 14688-2:2004) and Identification and Classification of Rock, Part 1: Identification & Description (EN ISO 14689-1:2004) of the materials encountered, , together with any observations made during the ground investigation.

### **Ground water conditions**

Groundwater was recorded when encountered during boring over a period of 20 minutes, noting any changes that may occur in cable percussion boreholes. Groundwater levels were also monitored at start and end of drilling shifts.

It should be noted that the normal rate of boring may not permit the recording of equilibrium groundwater levels for any one groundwater water strike where casing may exclude low volume flows or perched groundwater/ leachate as the borehole progresses. Groundwater conditions observed in the borings or pits are those appertaining to the period of the investigation. Groundwater levels may be subject to diurnal, seasonal and climatic variations and can also be affected by drainage conditions, tidal variations etc. Note wet strata were encountered with no significant flow of groundwater / leachate.

The groundwater regime should be assessed from standpipe well installations, where available. A summary of groundwater is presented below and detailed on the exploratory records, herein.

## **SUMMARY OF GROUNDWATER**

Location	Depth of water strike, m bgl
BH01	15.00
BH04	18.70
BH05	24.00
BH06	6.10
BH08	13.50
BH09	6.00
BH10	6.00
BH10	9.10
BH13	11.10
G02	3.20
G09	13.30
G10	20.00
G11	12.00
G12	14.00
G14	6.00
G23	19.50
LG01	3.00
LG01	10.20
LG02	7.30
LG03	6.00
LG03	11.10
LG04	9.70
LG04	12.10
LG06	16.60
LG07	9.30
LG14	23.00
LG16	1.20
LG16	11.20
LG18	22.00
LG19	6.80
LG19	26.00
TP01	3.50
TP09	1.50
TP10	1.20
TP23	4.00
TP24	3.00

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Fifty seven (57) number 50mm diameter HDPE groundwater standpipe installations were installed, else exploratory boreholes were backfilled with arisings.



Arisings, backfill to borehole



BENTONITE, backfill to installation/ borehole



GRAVEL, backfill to installation/ borehole



uPVC slotted pipe (well)

Rubber bung and valve, gas taps were fitted to all fifty five (55) number wells.

The standpipe well construction is summarized as follows;

Well	Interval m bgl		Pipework
	Start	End	
BH01	0.0	5.0	Plain pipe
	5.0	21.0	Slotted pipe
BH03	0.0	4.5	Plain pipe
	4.5	19.5	Slotted pipe
BH04	0.0	13.0	Plain pipe
	13.0	25.5	Slotted pipe
BH05	0.0	19.0	Plain pipe
	19.0	29.0	Slotted pipe
BH06	0.0	2.0	Plain pipe
	2.0	14.0	Slotted pipe
BH07	0.0	11.0	Plain pipe
	11.0	21.0	Slotted pipe
BH08	0.0	3.5	Plain pipe
	3.5	13.5	Slotted pipe
BH09	0.0	2.0	Plain pipe
	2.0	12.0	Slotted pipe
BH10	0.0	4.0	Plain pipe
	4.0	14.0	Slotted pipe
BH11	0.0	1.0	Plain pipe
	1.0	33.0	Slotted pipe
BH13	0.0	4.5	Plain pipe
	4.5	19.5	Slotted pipe
G01	0.0	1.0	Plain pipe
	1.0	17.0	Slotted pipe
G02	0.0	1.0	Plain pipe
	1.0	19.5	Slotted pipe
G03	0.0	1.0	Plain pipe
	1.0	19.5	Slotted pipe

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Well	Interval m bgl		Pipework
G04	0.0	3.0	Plain pipe
	3.0	20.0	Slotted pipe
G05	0.0	1.0	Plain pipe
	1.0	20.0	Slotted pipe
G06	0.0	1.0	Plain pipe
	1.0	20.0	Slotted pipe
G07	0.0	1.0	Plain pipe
	1.0	20.0	Slotted pipe
G08	0.0	1.0	Plain pipe
	1.0	20.0	Slotted pipe
G09	0.0	1.0	Plain pipe
	1.0	14.0	Slotted pipe
G10	0.0	1.0	Plain pipe
	1.0	20.0	Slotted pipe
G11	0.0	1.0	Plain pipe
	1.0	15.0	Slotted pipe
G12	0.0	1.0	Plain pipe
	1.0	14.0	Slotted pipe
G13	0.0	1.0	Plain pipe
	1.0	20.0	Slotted pipe
G14	0.0	1.0	Plain pipe
	1.0	14.0	Slotted pipe
G15	0.0	1.0	Plain pipe
	1.0	6.0	Slotted pipe
G16	0.0	1.0	Plain pipe
	1.0	6.0	Slotted pipe
G17	0.0	1.0	Plain pipe
	1.0	6.0	Slotted pipe
G18	0.0	1.0	Plain pipe
	1.0	14.0	Slotted pipe
G19	0.0	1.0	Plain pipe
	1.0	14.0	Slotted pipe
G20	0.0	1.0	Plain pipe
	1.0	20.0	Slotted pipe
G21	0.0	1.0	Plain pipe
	1.0	17.0	Slotted pipe
G22	0.0	1.0	Plain pipe
	1.0	15.0	Slotted pipe
G23	0.0	1.0	Plain pipe
	1.0	20.0	Slotted pipe

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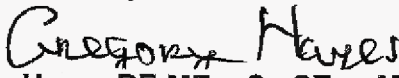
Well	Interval m bgl		Pipework
G24	0.0	1.0	Plain pipe
	1.0	20.0	Slotted pipe
G25	0.0	1.0	Plain pipe
	1.0	20.0	Slotted pipe
LG01	0.0	1.0	Plain pipe
	1.0	5.5	Slotted pipe
LG02	0.0	1.0	Plain pipe
	1.0	9.0	Slotted pipe
LG03	0.0	1.0	Plain pipe
	1.0	18.0	Slotted pipe
LG04	0.0	1.0	Plain pipe
	1.0	15.0	Slotted pipe
LG05	0.0	1.0	Plain pipe
	1.0	14.0	Slotted pipe
LG06	0.0	1.0	Plain pipe
	1.0	6.4	Slotted pipe
LG07	0.0	1.0	Plain pipe
	1.0	17.1	Slotted pipe
LG08	0.0	1.0	Plain pipe
	1.0	8.0	Slotted pipe
LG09	0.0	1.0	Plain pipe
	1.0	17.0	Slotted pipe
LG10	0.0	1.0	Plain pipe
	1.0	18.0	Slotted pipe
LG11	0.0	1.0	Plain pipe
	1.0	13.0	Slotted pipe
LG12	0.0	1.0	Plain pipe
	1.0	12.0	Slotted pipe
LG13	0.0	1.0	Plain pipe
	1.0	9.0	Slotted pipe
LG14	0.0	1.0	Plain pipe
	1.0	12.0	Slotted pipe
LG15	0.0	1.0	Plain pipe
	1.0	8.0	Slotted pipe
LG16	0.0	1.0	Plain pipe
	1.0	3.5	Slotted pipe
LG17	0.0	1.0	Plain pipe
	1.0	4.0	Slotted pipe
LG18	0.0	1.0	Plain pipe
	1.0	10.0	Slotted pipe

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Well	Interval m bgl		Pipework
	0.0	1.0	
LG19	0.0	1.0	Plain pipe
	1.0	15.0	Slotted pipe
LG20	0.0	1.0	Plain pipe
	1.0	12.0	Slotted pipe
LG21	0.0	1.0	Plain pipe
	1.0	4.0	Slotted pipe

Should you have any queries in relation to the data collected and presented herein, please do not hesitate to contact our office.

Yours sincerely,  
For **Priority Geotechnical**,

  
**Greg Hayes BE MEngSc CEng MIEI**  
**Geotechnical Specialist**

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*No responsibility can be held by PGL for ground conditions between exploratory locations. The exploratory logs provide for ground profiles and configuration of strata relevant to the investigation depths achieved during the fieldworks. Caution shall be taken when extrapolating between such exploratory locations. No liability is accepted for ground conditions extraneous to the exploratory locations.*

*No account has been taken of potential subsidence or ground movement due to mineral extraction, mining works or karstification below or in proximity to the site, unless specifically addressed.*

*This report has been prepared for. The information should not be used without their prior written permission. PGL accepts no responsibility or liability for this document being used other than for the purposes for which it was intended.*

# KEY TO SYMBOLS ON EXPLORATORY HOLE RECORDS

All linear dimensions are in metres or millimetres

## DESCRIPTIONS

\*\* Drillers Description  
Friable Easily crumbled

## SAMPLES

U( ) Undisturbed 102mm diameter sample, ( ) denotes number of blows to drive sampler  
U( )F, U( )P F- not recovered, P-partially recovered  
U38 Undisturbed 38mm diameter sample  
P(F), (P) Piston sample - disturbed  
B Bulk sample - disturbed  
D Jar Sample - disturbed  
W Water Sample  
CBR California Bearing Ratio mould sample  
ES Chemical Sample for Contamination Analysis  
SPTLS Standard Penetration Test S lump sample from split sampler

## CORE RECOVERY AND ROCK QUALITY

TCR Total Core Recovery (% of Core Run)  
SCR Solid Core Recovery (length of core having at least one full diameter as % of core run)  
RQD Rock Quality Designation (length of solid core greater than 100mm as % of core run)  
Where there is insufficient space for the TCR, SCR and RQD, the results may be found in the remarks column  
lf Fracture Spacing in mm (Minimum/Average/Maximum) NI - non intact, NR - no recovery  
AZCL Assumed Zone of Core Loss  
NI Non intact

## GROUNDWATER

▽ Groundwater strike  
▼ Groundwater level after standing period  
Date/Water Date of shift (day/month)/Depth to water at end of previous shift shown above the date and depth to water at beginning of shift given below the date

## INSITU TESTING

S Standard Penetration Test - split barrel sampler  
C Standard Penetration Test - solid 60<sup>o</sup> cone  
SW Self Weight Penetration  
Ivp, HVp (R) In Situ Vane Test, Hand Vane Test (R) demonstrates remoulded strength  
K(F), (C), (R), (P) Permeability Test  
HP Hand Penetrometer Test

## MEASURED PROPERTIES

N Standard Penetration Test - blows required to drive 300mm after seating drive  
x/y Denotes x blows for y mm within the Standard Penetration Test  
x\*/y Denotes x blows for y mm within the seating drive  
c<sub>u</sub> Undrained Shear Strength (kN/m<sup>2</sup>)  
CBR California Bearing Ratio

## ROTARY DRILLING SIZES

Index Letter	Nominal Diameter (mm)	
	Borehole	Core
N	75	54
H	99	76
P	120	92
S	146	113

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Priority Geotechnical Ltd.  
Tel: 021 4631600  
Fax: 021 4638690  
www.prioritygeotechnical.ie

Drilled By  
GW  
Logged By  
GW

Borehole No  
**LG01**

Sheet 1 of 2

<b>Project Name:</b> assaroe Historic Landfills	<b>Project No.:</b> P15180	<b>Co-ords:</b> 723644E - 718222N	<b>Hole Type:</b> Rotary
<b>Client:</b> RPS Consulting Engineers	<b>Dates:</b> 21/01/2016	<b>Level:</b> 83.76 mOD	<b>Scale:</b> 1:50

Well / Backfill	Water Strikes	Samples & In Situ Testing			Casing / Flush	Level (m AOD)	Depth (m)	Stratum Description	Legend
		Depth (m)	Type	Results					
						82.46	1.30	Open hole drilling. Driller described (MADE GROUND) Topsoil and Gravel.	
								Open hole drilling. Driller described (MADE GROUND) Waste.	
						80.76	3.00	Open hole drilling. (MADE GROUND) Driller described wet waste mixed with silty Sand.	
						79.26	4.50	Open hole drilling. (MADE GROUND) Driller described wet waste mixed with Gravel.	
						77.76	6.00	Open hole drilling. Driller describes sandy GRAVEL.	
						75.16	8.60	Open hole drilling. Driller describes sandy CLAY.	

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Continued next sheet

<b>Groundwater:</b> Struck 3.00m Rose to 10.20m After - Sealed - Comment Refer to detail.	<b>Hole Information:</b> Hole Depth 16.00m Hole Diameter - Casing Diameter 131mm	<b>Chiselling:</b> Depths (m) to Time (hhmm) Tool
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<b>Remarks:</b> Borehole complete at 16.0m bgl. 50mm dia. standpipe installed, response zone 1m to 5.5m.	<b>Shift Data:</b> Groundwater - Shift (dd/mm/yyyy) 21/01/2016 Casing depth 16.00m Remarks End of shift
--	---

**Equipment & Methods:** Delta base 520



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Borehole No  
**LG01**

Sheet 2 of 2

**Project Name:** Fassaroe Historic Landfills  
**Project No.:** P15180  
**Co-ords:** 723644E - 718222N  
**Hole Type:** Rotary

**Client:** RPS Consulting Engineers  
**Dates:** 21/01/2016  
**Level:** 83.76 mOD  
**Scale:** 1:50

Well / Backfill	Water Strikes	Samples & In Situ Testing			Casing / Flush	Level (m AOD)	Depth (m)	Stratum Description	Legend
		Depth (m)	Type	Results					
	▽						Open hole drilling. Driller describes sandy CLAY.		
					72.46	11.30	10.2 to 16.0m bgl Arisings are wet.		
							Open hole drilling. Driller described SAND.		
					16.00	67.76	16.00	End of Borehole at 16.00 m	

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Water	Depth (m)	Type	Results	Casing	Level	Depth				
Struck	Rose to	After	Sealed	Comment	Hole Depth	Hole Diameter	Casing Diameter	Chiselling: Depths (m)	Time (hhmm)	Tool
3.00m	-	-	-	Refer to detail.	16.00m	-	131mm	to		
10.20m										

**Remarks:** Borehole complete at 16.0m bgl. 50mm dia. standpipe installed, response zone 1m to 5.5m.  
**Shift Data:** Groundwater - Shift (dd/mm/yyyy) 21/01/2016 Casing depth 16.00m Remarks End of shift

**Equipment & Methods:** Delta base 520





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Borehole No  
**LG02**

Sheet 1 of 2

<b>Project Name:</b> Assaroe Historic Landfills	<b>Project No.:</b> P15180	<b>Co-ords:</b> 723692E - 718261N	<b>Hole Type:</b> Cable/Rotary
<b>Client:</b> RPS Consulting Engineers	<b>Dates:</b> 11/02/2016-17/02/2016	<b>Level:</b> 83.19 mOD	<b>Scale:</b> 1:50

Well / Backfill	Water Strikes	Samples & In Situ Testing			Casing Flush	Level (m AOD)	Depth (m)	Stratum Description	Legend
		Depth (m)	Type	Results					
						82.19	1.00	(MADE GROUND) Driller described clayey waste.	
								(MADE GROUND) Driller described plastic waste.	
						80.19	3.00	(MADE GROUND) Driller described plastic and timber.	
						79.19	4.00	(MADE GROUND) Driller described waste bags and steel.	
						78.19	5.00	(MADE GROUND) Driller described waste and paper.	
						77.19	6.00	(MADE GROUND) Driller described waste.	
						76.19	7.00	(MADE GROUND) Driller described steel and plastic	
						75.19	8.00	(MADE GROUND) Driller described strips of steel	
						74.69	8.50	(MADE GROUND) Driller described bits of steel.	
					8.90	74.29	8.90		

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Continued next sheet

<b>Groundwater:</b> Struck 7.30m Rose to - After - Sealed - Comment -	<b>Hole Information:</b> Hole Depth 8.90m 12.00m Hole Diameter - Casing Diameter 200mm 131mm	<b>Chiselling:</b> Depths (m) 7.80 to 8.00 8.85 to 8.90 Time (hhmm) 0100 0100 Tool Chisel Chisel
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<b>Remarks:</b> Cable tool borehole complete at 8.90m bgl. Rotary openhole borehole complete at 12.0m bgl. 50mm standpipe installed response zone 1m to 9m.	<b>Shift Data:</b>
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<b>Equipment &amp; Methods:</b> Dando 2000 Deltabase 520	<table border="1"> <thead> <tr> <th>Groundwater</th> <th>Shift (dd/mm/yyyy)</th> <th>Casing depth</th> <th>Remarks</th> </tr> </thead> <tbody> <tr> <td>-</td> <td>11/02/2016</td> <td>8.50m</td> <td>End of shift</td> </tr> <tr> <td>-</td> <td>15/02/2016</td> <td>8.90m</td> <td>End of shift</td> </tr> <tr> <td>-</td> <td>17/02/2016</td> <td>12.00m</td> <td>End shift</td> </tr> </tbody> </table>	Groundwater	Shift (dd/mm/yyyy)	Casing depth	Remarks	-	11/02/2016	8.50m	End of shift	-	15/02/2016	8.90m	End of shift	-	17/02/2016	12.00m	End shift
Groundwater	Shift (dd/mm/yyyy)	Casing depth	Remarks														
-	11/02/2016	8.50m	End of shift														
-	15/02/2016	8.90m	End of shift														
-	17/02/2016	12.00m	End shift														



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Borehole No  
**LG02**

Sheet 2 of 2

<b>Project Name:</b> Fassaroe Historic Landfills	<b>Project No.:</b> P15180	<b>Co-ords:</b> 723692E - 718261N	<b>Hole Type:</b> Cable/Rotary
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<b>Client:</b> RPS Consulting Engineers	<b>Dates:</b> 11/02/2016-17/02/2016	<b>Level:</b> 83.19 mOD	<b>Scale:</b> 1:50
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Well / Backfill	Water Strikes	Samples & In Situ Testing			Casing Flush	Level (m AOD)	Depth (m)	Stratum Description	Legend
		Depth (m)	Type	Results					
							(MADE GROUND) Driller described plastic and rubbish.		
					72.69	10.50	Open hole drilling, Driller described CLAY		
					12.00	71.19	End of Borehole at 12.00 m		

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Water	Depth (m)	Type	Results	Casing	Level	Depth

<b>Groundwater:</b>					<b>Hole Information:</b>			<b>Chiselling:</b>		
Struck	Rose to	After	Sealed	Comment	Hole Depth	Hole Diameter	Casing Diameter	Depths (m)	Time (hhmm)	Tool
7.30m	-	-	-		8.90m 12.00m	-	200mm 131mm	7.80 to 8.00 8.85 to 8.90	0100 0100	Chisel Chisel

<b>Remarks:</b> Cable tool borehole complete at 8.90m bgl. Rotary openhole borehole complete at 12.0m bgl. 50mm standpipe installed response zone 1m to 9m.	<b>Shift Data:</b>			
	Groundwater	Shift (dd/mm/yyyy)	Casing depth	Remarks
	-	11/02/2016	8.50m	End of shift
	-	15/02/2016	8.90m	End of shift
	-	17/02/2016	12.00m	End shift

<b>Equipment &amp; Methods:</b>	Dando 2000 Deltabase 520
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Borehole No  
**LG03**

Sheet 1 of 4

<b>Project Name:</b> Assaroe Historic Landfills	<b>Project No.</b> P15180	<b>Co-ords:</b> 723751E - 718308N	<b>Hole Type</b> Rotary
<b>Client:</b> RPS Consulting Engineers	<b>Dates:</b> 20/01/2016-21/01/2016	<b>Level:</b> 82.25 mOD	<b>Scale</b> 1:50

Well / Backfill	Water Strikes	Samples & In Situ Testing			Casing / Flush	Level (m AOD)	Depth (m)	Stratum Description	Legend
		Depth (m)	Type	Results					
					80.95	1.30	Open hole drilling. (MADE GROUND) Driller describes Topsoil, sand and gravel.	1	
							Open hole drilling. (MADE GROUND) Driller describes waste mixed with gravel.	2	
								3	
								4	
						77.75	4.50	Open hole boring. (MADE GROUND) Driller described waste with boulders and or concrete blocks.	5
					76.25	6.00	Open hole drilling. Driller describes Waste. 6.0 to 7.40m bgl. Arisings are wet possibly due to leachate.	6	
					74.85	7.40	Open hole drilling. (MADE GROUND) Driller describes Clay. 7.40m bgl to 8.70m bgl Arising are dry.	7	
					73.55	8.70	Open hole drilling. (MADE GROUND) Driller describes	8	
Continued next sheet									

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Groundwater:				
Struck	Rose to	After	Sealed	Comment
6.00m	-	-	-	Refer to detail
11.10m				

Hole Information:		
Hole Depth	Hole Diameter	Casing Diameter
29.00m	-	131mm

Chiselling:		
Depths (m)	Time (hhmm)	Tool
to		

**Remarks:** Borehole complete at 29.0m bgl. 50mm dia. standpipe installed, response zone 1m to 18m.

Shift Data:	Groundwater	Shift (dd/mm/yyyy)	Casing depth	Remarks
	-	20/01/2016	13.59m	End of shift
	-	21/01/2016	29.00m	End of shift

**Equipment & Methods:** Deitbase 520



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Borehole No  
**LG03**

Sheet 2 of 4

**Project Name:** Fassaroe Historic Landfills  
**Project No.:** P15180  
**Co-ords:** 723751E - 718308N  
**Hole Type:** Rotary

**Client:** RPS Consulting Engineers  
**Dates:** 20/01/2016-21/01/2016  
**Level:** 82.25 mOD  
**Scale:** 1:50

Well / Backfill	Water Strikes	Samples & In Situ Testing			Casing / Flush	Level (m AOD)	Depth (m)	Stratum Description	Legend
		Depth (m)	Type	Results					
							Waste.		
					71.15	11.10	Open hole drilling. Driller describes concrete. 11.1 to 11.90m bgl Driller notes large amount of water (leachate) in arisings.		
					70.35	11.90	Open hole drilling. (MADE GROUND) Driller describes waste. 11.90 to 13.50m bgl Waste is slightly wet.		
					68.75	13.50	Open hole drilling. (MADE GROUND) Driller describes waste. 13.5 to 18.20m bgl Waste is dry		

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Water	Depth (m)	Type	Results	Casing	Level	Depth
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<b>Groundwater:</b> Struck: 6.00m, 11.10m Rose to: -, - After: -, - Sealed: -, - Comment: Refer to detail				<b>Hole Information:</b> Hole Depth: 29.00m Hole Diameter: - Casing Diameter: 131mm			<b>Chiselling:</b> Depths (m): - to - Time (hhmm): - Tool: -		
--	--	--	--	--	--	--	---	--	--

**Remarks:** Borehole complete at 29.0m bgl. 50mm dia. standpipe installed, response zone 1m to 18m.

**Shift Data:**

Groundwater	Shift (dd/mm/yyyy)	Casing depth	Remarks
-	20/01/2016	13.50m	End of shift
-	21/01/2016	29.00m	End of shift

**Equipment & Methods:** Deltbase 520



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Borehole No  
**LG03**

Sheet 3 of 4

<b>Project Name:</b> Assaroe Historic Landfills	<b>Project No.</b> P15180	<b>Co-ords:</b> 723751E - 718308N	<b>Hole Type</b> Rotary
<b>Client:</b> RPS Consulting Engineers	<b>Dates:</b> 20/01/2016-21/01/2016	<b>Level:</b> 82.25 mOD	<b>Scale</b> 1:50

Well / Backfill	Water Strikes	Samples & In Situ Testing			Casing / Flush	Level (m AOD)	Depth (m)	Stratum Description	Legend
		Depth (m)	Type	Results					
					64.05	18.20	Open hole drilling. (MADE GROUND) Driller described waste mixed with gravel.		
					63.25	19.00	Open hole drilling. Driller described GRAVEL.		
					60.25	22.00	Open hole describes SAND.		

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Water	Depth (m)	Type	Results	Casing	Level	Depth				
<b>Groundwater:</b>				<b>Hole Information:</b>			<b>Chiselling:</b>			
Struck	Rose to	After	Sealed	Comment	Hole Depth	Hole Diameter	Casing Diameter	Depths (m)	Time (hhmm)	Tool
6.00m	-	-	-	Refer to detail	29.00m	-	131mm	to		
11.10m										
<b>Remarks:</b> Borehole complete at 29.0m bgl. 50mm dia. standpipe installed, response zone 1m to 18m.							<b>Shift Data:</b>			
							Groundwater	Shift (dd/mm/yyyy)	Casing depth	Remarks
							-	20/01/2016	13.50m	End of shift
							-	21/01/2016	29.00m	End of shift
<b>Equipment &amp; Methods:</b> Deltbase 520										



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Borehole No  
**LG03**

Sheet 4 of 4

**Project Name:** Fassaroe Historic Landfills  
**Project No.:** P15180  
**Co-ords:** 723751E - 718308N  
**Hole Type:** Rotary

**Client:** RPS Consulting Engineers  
**Dates:** 20/01/2016-21/01/2016  
**Level:** 82.25 mOD  
**Scale:** 1:50

Well / Backfill	Water Strikes	Samples & in Situ Testing			Casing / Flush	Level (m AOD)	Depth (m)	Stratum Description	Legend
		Depth (m)	Type	Results					
							Open hole describes SAND.		
					29.00	53.25	29.00		
							End of Borehole at 29.00 m		

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Water	Depth (m)	Type	Results	Casing	Level	Depth				
<b>Groundwater:</b>				<b>Hole Information:</b>			<b>Chiselling:</b>			
Struck	Rose to	After	Sealed	Comment	Hole Depth	Hole Diameter	Casing Diameter	Depths (m)	Time (hhmm)	Tool
6.00m	-	-	-	Refer to detail	29.00m	-	131mm	to		
11.10m										
<b>Remarks:</b> Borehole complete at 29.0m bgl. 50mm dia. standpipe installed, response zone 1m to 18m.					<b>Shift Data:</b>					
					Groundwater	Shift (dd/mm/yyyy)	Casing depth	Remarks		
					-	20/01/2016	13.50m	End of shift		
					-	21/01/2016	29.00m	End of shift		
<b>Equipment &amp; Methods:</b> Deltbase 520										





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Borehole No  
**LG04**

Sheet 1 of 2

<b>Project Name:</b> Assaroe Historic Landfills	<b>Project No.:</b> P15180	<b>Co-ords:</b> 723729E - 718362N	<b>Hole Type:</b> Cable/Rotary
<b>Client:</b> RPS Consulting Engineers	<b>Dates:</b> 10/02/2016-17/02/2016	<b>Level:</b> 81.88 mOD	<b>Scale:</b> 1:50

Well / Backfill	Water Strikes	Samples & In Situ Testing			Casing Flush	Level (m AOD)	Depth (m)	Stratum Description	Legend
		Depth (m)	Type	Results					
						80.88	1.00	(MADE GROUND) Driller described waste with plastic.	1
						79.88	2.00	(MADE GROUND) Driller described rubble and waste.	2
						78.88	3.00	(MADE GROUND) Driller described plastic with newspapers.	3
						77.88	4.00	(MADE GROUND) Driller described rubber pipe with plastic.	4
						76.88	5.00	(MADE GROUND) Driller described gravel, waste and plastic.	5
						75.88	6.00	(MADE GROUND) Driller described waste paper.	6
						74.88	7.00	(MADE GROUND) Driller described bags and newspapers.	7
						73.88	8.00	(MADE GROUND) Driller described paper, waste and timber.	8
					8.85	73.03	8.85		

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<b>Groundwater:</b> Struck: 9.70m, 12.10m Rose to: - After: - Sealed: - Comment: See shift data					<b>Hole Information:</b> Hole Depth: 8.85m, 18.00m Hole Diameter: - Casing Diameter: 200mm, 131mm			<b>Chiselling:</b> Depths (m): 8.70 to 8.85 Time (hhmm): 0100 Tool: Chisel																					
<b>Remarks:</b> Cable tool borehole complete at 8.85m bgl. Rotary open hole borehole complete at 18.0m bgl. 50mm dia. standpipe installed, response zone 1m to 15m.					<b>Shift Data:</b> <table border="1"> <thead> <tr> <th>Groundwater</th> <th>Shift (dd/mm/yyyy)</th> <th>Casing depth</th> <th>Remarks</th> </tr> </thead> <tbody> <tr> <td>-</td> <td>10/02/0016</td> <td>8.00m</td> <td>End of shift</td> </tr> <tr> <td>-</td> <td>11/02/0016</td> <td>8.85m</td> <td>End of shift</td> </tr> <tr> <td>8.40m</td> <td>16/02/0016</td> <td>13.50m</td> <td>End shift</td> </tr> <tr> <td>8.40m</td> <td>17/02/0016</td> <td>18.00m</td> <td>End shift</td> </tr> </tbody> </table>					Groundwater	Shift (dd/mm/yyyy)	Casing depth	Remarks	-	10/02/0016	8.00m	End of shift	-	11/02/0016	8.85m	End of shift	8.40m	16/02/0016	13.50m	End shift	8.40m	17/02/0016	18.00m	End shift
Groundwater	Shift (dd/mm/yyyy)	Casing depth	Remarks																										
-	10/02/0016	8.00m	End of shift																										
-	11/02/0016	8.85m	End of shift																										
8.40m	16/02/0016	13.50m	End shift																										
8.40m	17/02/0016	18.00m	End shift																										
<b>Equipment &amp; Methods:</b> Dando 2000, Deltabase 520																													





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Borehole No  
**LG05**

Sheet 1 of 3

<b>Project Name:</b> Lussaroo Historic Landfills	<b>Project No.:</b> P15180	<b>Co-ords:</b> 723787E - 718340N	<b>Hole Type:</b> Rotary
<b>Client:</b> RPS Consulting Engineers	<b>Dates:</b> 15/01/2016-19/01/2016	<b>Level:</b> 80.14 mOD	<b>Scale:</b> 1:50

Well / Backfill	Water Strikes	Samples & In Situ Testing			Casing / Flush	Level (m AOD)	Depth (m)	Stratum Description	Legend
		Depth (m)	Type	Results					
					78.74	1.40	Open hole drilling. (MADE GROUND) Driller describes Topsoil with sandy and gravel.		
							Open hole drilling. (MADE GROUND) Driller describes waste.		
					75.84	4.30	Open hole drilling. (MADE GROUND) Driller describes waste.		
					74.74	5.40	Open hole drilling. (MADE GROUND) Driller describes waste.		
							From 6.20 to 6.70m bgl arisings slightly wet.		

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<b>Groundwater:</b> Struck - Rose to - After - Sealed - Comment - Refer to detail	<b>Hole Information:</b> Hole Depth 25.50m Hole Diameter - Casing Diameter 131mm	<b>Chiselling:</b> Depths (m) to Time (hhmm) Tool
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<b>Remarks:</b> Borehole complete at 25.50m bgl. 50mm dia. standpipe installed, response zone 1m to 14m.	<b>Shift Data:</b> Groundwater - Shift (dd/mm/yyyy) 19/01/2016 Casing depth 25.50m Remarks End of shift
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<b>Equipment &amp; Methods:</b> Deltabase 520
---





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Borehole No  
**LG05**

Sheet 2 of 3

**Project Name:** Fassaroe Historic Landfills  
**Project No.:** P15180  
**Co-ords:** 723787E - 718340N  
**Hole Type:** Rotary

**Client:** RPS Consulting Engineers  
**Dates:** 15/01/2016-19/01/2016  
**Level:** 80.14 mOD  
**Scale:** 1:50

Well / Backfill	Water Strikes	Samples & In Situ Testing			Casing / Flush	Level (m AOD)	Depth (m)	Stratum Description	Legend
		Depth (m)	Type	Results					
							Open hole drilling. (MADE GROUND) Driller describes waste.		
								10	
								11	
								13	
								14	
					64.54	15.60	Open hole drilling. Driller describes SAND.		
								16	
					62.54	17.60	Open hole drilling. Driller describes GRAVEL.		
								17	
							Continued next sheet		

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<b>Groundwater:</b>				<b>Hole Information:</b>			<b>Chiselling:</b>		
Struck	Rose to	After	Sealed	Hole Depth	Hole Diameter	Casing Diameter	Depths (m)	Time (hhmm)	Tool
-	-	-	-	25.50m	-	131mm	to		
Refer to detail									

**Remarks:** Borehole complete at 25.50m bgl. 50mm dia. standpipe installed, response zone 1m to 14m.

**Shift Data:** Groundwater - Shift (dd/mm/yyyy) 19/01/2016 Casing depth 25.50m Remarks End of shift

**Equipment & Methods:** Deltabase 520





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Sheet 3 of 3

<b>Project Name:</b> Assaroe Historic Landfills	<b>Project No.:</b> P15180	<b>Co-ords:</b> 723787E - 718340N	<b>Hole Type:</b> Rotary
<b>Client:</b> RPS Consulting Engineers	<b>Dates:</b> 15/01/2016-19/01/2016	<b>Level:</b> 80.14 mOD	<b>Scale:</b> 1:50

Well / Backfill	Water Strikes	Samples & In Situ Testing			Casing Flush	Level (m AOD)	Depth (m)	Stratum Description	Legend
		Depth (m)	Type	Results					
							Open hole drilling. Driller describes GRAVEL.		
					59.74	20.40	Open hole drilling . Driller describes slightly sandy, slightly gravelly CLAY.		
					59.14	21.00	Open hole drilling. Driller describes SAND. From 21.0 to 25.5 arisings are wet.		
					57.74	22.40	Open hole drilling. Driller describes sandy GRAVEL.		
					25.50	54.64	End of Borehole at 25.50 m		

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Water	Depth (m)	Type	Results	Casing	Level	Depth				
Struck	Rose to	After	Sealed	Comment	Hole Depth	Hole Diameter	Casing Diameter	Chiselling: Depths (m)	Time (hhmm)	Tool
-	-	-	-	Refer to detail	25.50m	-	131mm	to		

**Remarks:** Borehole complete at 25.50m bgl. 50mm dia. standpipe installed, response zone 1m to 14m.

**Shift Data:** Groundwater - Shift (dd/mm/yyyy) 19/01/2016 Casing depth 25.50m Remarks End of shift

**Equipment & Methods:** Deltabase 520



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Borehole No  
**LG06**

Sheet 1 of 2

<b>Project Name:</b> Fassaroe Historic Landfills	<b>Project No.:</b> P15180	<b>Co-ords:</b> 723716E - 718432N	<b>Hole Type:</b> Rotary
<b>Client:</b> RPS Consulting Engineers	<b>Dates:</b> 20/01/2016	<b>Level:</b> 82.68 mOD	<b>Scale:</b> 1:50

Well / Backfill	Water Strikes	Samples & In Situ Testing			Casing / Flush	Level (m AOD)	Depth (m)	Stratum Description	Legend
		Depth (m)	Type	Results					
							Open hole drilling. (MADE GROUND) Driller describes topsoil with sand and gravel.		
					81.38	1.30	Open hole drilling. Driller describes waste.		
					76.08	6.60	Open hole drilling. (MADE GROUND) Driller describes timbers.		
					75.28	7.40	Open hole drilling. Driller describes sandy GRAVEL.		

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Water	Depth (m)	Type	Results	Casing	Level	Depth	Groundwater:			Hole Information:			Chiselling:				
							Struck	Rose to	After	Sealed	Comment	Hole Depth	Hole Diameter	Casing Diameter	Depths (m)	Time (hhmm)	Tool
							16.60m	-	-	-	Refer to detail	17.50m	-	131mm			

<b>Remarks:</b> Borehole complete at 17.50m bgl. 50mm dia. standpipe installed, response zone 1m to 6.4m.	<b>Shift Data:</b> Groundwater - 20/01/2016 17.50m Remarks Start of shift
<b>Equipment &amp; Methods:</b> Deltabase 520	



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**LG06**

Sheet 2 of 2

<b>Project Name:</b> Assaroe Historic Landfills	<b>Project No.:</b> P15180	<b>Co-ords:</b> 723716E - 718432N	<b>Hole Type:</b> Rotary
<b>Client:</b> RPS Consulting Engineers	<b>Dates:</b> 20/01/2016	<b>Level:</b> 82.68 mOD	<b>Scale:</b> 1:50

Well / Backfill	Water Strikes	Samples & In Situ Testing			Casing / Flush	Level (m AOD)	Depth (m)	Stratum Description	Legend
		Depth (m)	Type	Results					
							Open hole drilling. Driller describes sandy GRAVEL.		
								10	
								11	
								12	
								13	
								14	
								15	
					66.08	16.60	Open hole drilling. Driller describes GRAVEL. From 16.60m bgl to 17.50m bgl arisings are wet.	17	
				17.50	65.18	17.50	End of Borehole at 17.50 m		

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Water	Depth (m)	Type	Results	Casing	Level	Depth	Chiselling:	Depths (m)	Time (hhmm)	Tool
Struck	16.60m	-	-	-	-	Refer to detail	Hole Information:			
Rose to							Hole Depth	17.50m		
After							Hole Diameter	-		
Sealed							Casing Diameter	131mm		
Comment							Chiselling:			
							Depths (m)			
							Time (hhmm)			
							Tool			

<b>Remarks:</b> Borehole complete at 17.50m bgl. 50mm dia. standpipe installed, response zone 1m to 6.4m.	<b>Shift Data:</b> Groundwater - Shift (dd/mm/yyyy) 20/01/2016 Casing depth 17.50m Remarks Start of shift
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**Equipment & Methods:** Deltabase 520





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Borehole No  
**LG07**

Sheet 1 of 2

<b>Project Name:</b> Fassaroe Historic Landfills	<b>Project No.:</b> P15180	<b>Co-ords:</b> 723798E - 718405N	<b>Hole Type:</b> Cable/Rotary
<b>Client:</b> RPS Consulting Engineers	<b>Dates:</b> 10/02/2016-15/02/2016	<b>Level:</b> 74.87 mOD	<b>Scale:</b> 1:50

Well / Backfill	Water Strikes	Samples & In Situ Testing			Casing Flush	Level (m AOD)	Depth (m)	Stratum Description	Legend
		Depth (m)	Type	Results					
						73.87	1.00	(MADE GROUND) Driller described black clay and waste	1
						72.87	2.00	(MADE GROUND) Driller described black waste with plastic and bags	2
						71.87	3.00	(MADE GROUND) Driller described black waste with steel	3
						70.87	4.00	(MADE GROUND) Driller described waste with timber and bags	4
						69.87	5.00	(MADE GROUND) Driller described steel and plastic	5
						5.70	69.17	(MADE GROUND) Driller described waste plastic and steel ropes	6
						65.87	9.00	(MADE GROUND) Open hole drilling Driller described plastic gravel and timber	7
								Continued next sheet	8

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<b>Groundwater:</b> Struck: 9.30m Rose to: - After: - Sealed: - Comment: -	<b>Hole Information:</b> Hole Depth: 5.70m / 17.50m Hole Diameter: - Casing Diameter: 200mm / 131mm	<b>Chiselling:</b> Depths (m): 5.60 to 5.70 Time (hhmm): 0100 Tool: Chisel
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<b>Remarks:</b> Cable tool borehole complete at 5.70m bgl. Rotary open hole borehole complete at 17.50m bgl. 50mm dia. standpipe installed, response zone 1m to 17.1m.	<b>Shift Data:</b> Groundwater	Shift (dd/mm/yyyy)	Casing depth	Remarks
	-	10/02/2016	5.70m	End of shift
	-	12/02/2016	12.00m	End of shift
	-	15/02/2016	17.50m	End of shift

**Equipment & Methods:** Dando 2000, Deltabase 520



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Borehole No  
**LG07**

Sheet 2 of 2

<b>Project Name:</b> Assaroe Historic Landfills	<b>Project No.:</b> P15180	<b>Co-ords:</b> 723798E - 718405N	<b>Hole Type:</b> Cable/Rotary
<b>Client:</b> RPS Consulting Engineers	<b>Dates:</b> 10/02/2016-15/02/2016	<b>Level:</b> 74.87 mOD	<b>Scale:</b> 1:50

Well / Backfill	Water Strikes	Samples & In Situ Testing			Casing Flush	Level (m AOD)	Depth (m)	Stratum Description	Legend
		Depth (m)	Type	Results					
	▽						(MADE GROUND) Open hole drilling Driller described gravel plastic and sand.		
					64.37	10.50	(MADE GROUND) Open hole drilling Driller described sandy gravelly Clay		
					62.87	12.00	(MADE GROUND) Open hole drilling Driller described plastic timber sand.		
					58.37	16.50	(MADE GROUND) Open hole drilling Driller described plastic and metal.		
				17.50	57.37	17.50	End of Borehole at 17.50 m		

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Water	Depth (m)	Type	Results	Casing	Level	Depth				
Struck	Rose to	After	Sealed	Comment	<b>Hole Information:</b>		<b>Chiselling:</b>			
9.30m	-	-	-	-	Hole Depth	Hole Diameter	Casing Diameter	Depths (m)	Time (hhmm)	Tool
					5.70m	-	200mm	5.60 to 5.70	0100	Chisel
					17.50m	-	131mm			
<b>Remarks:</b> Cable tool borehole complete at 5.70m bgl. Rotary open hole borehole complete at 17.50m bgl. 50mm dia. standpipe installed, response zone 1m to 17.1m.					<b>Shift Data:</b>					
					Groundwater	Shift (dd/mm/yyyy)	Casing depth	Remarks		
					-	10/02/2016	5.70m	End of shift		
					-	12/02/2016	12.00m	End of shift		
					-	15/02/2016	17.50m	End of shift		
<b>Equipment &amp; Methods:</b> Dando 2000, Deltabase 520										



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**LG08**

Sheet 1 of 3

<b>Project Name:</b> Fassaroe Historic Landfills	<b>Project No.:</b> P15180	<b>Co-ords:</b> 723855E - 718377N	<b>Hole Type:</b> RO
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<b>Client:</b> RPS Consulting Engineers	<b>Dates:</b> 29/01/2016-01/02/2016	<b>Level:</b> 70.77 mOD	<b>Scale:</b> 1:50
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Well / Backfill	Water Strikes	Samples & In Situ Testing			Casing / Flush	Level (m AOD)	Depth (m)	Stratum Description	Legend
		Depth (m)	Type	Results					
							(MADE GROUND) Open hole drilling. Driller described plastic, timber and metal.	1	
					69.27	1.50	(MADE GROUND) Open hole drilling. Driller described plastic, timber and metal.	2	
					67.77	3.00	(MADE GROUND) Open hole drilling. Driller described granite block.	3	
					67.27	3.50	(MADE GROUND) Open hole drilling. Driller described plastic, boulders and timber.	4	
					66.27	4.50	(MADE GROUND) Open hole drilling. Driller described metal, plastic and timber.	5	
					64.77	6.00	(MADE GROUND) Open hole drilling. Driller described metal, plastic and timber.	6	
					63.27	7.50	(MADE GROUND) Open hole drilling. Driller described metal, plastic and timber.	7	
					61.77	9.00		8	

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Water	Depth (m)	Type	Results	Casing	Level	Depth
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<b>Groundwater:</b>				<b>Hole Information:</b>			<b>Chiselling:</b>		
Struck	Rose to	After	Sealed Comment	Hole Depth	Hole Diameter	Casing Diameter	Depths (m)	Time (hhmm)	Tool
-	-	-	-None encountered.	19.50m	-	131mm	to		

<b>Remarks:</b> Borehole complete at 19.50m bgl, 50mm dia, standpipe installed, response zone 1m to 8m.	<b>Shift Data:</b>	Groundwater	Shift (dd/mm/yyyy)	Casing depth	Remarks
		-	29/01/2016	10.50m	End of shift
		-	01/02/2016	19.50m	End of shift

<b>Equipment &amp; Methods:</b> Deltabase 520
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**LG08**

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<b>Project Name:</b> Lissaroe Historic Landfills	<b>Project No.</b> P15180	<b>Co-ords:</b> 723855E - 718377N	<b>Hole Type</b> RO
<b>Client:</b> RPS Consulting Engineers	<b>Dates:</b> 29/01/2016-01/02/2016	<b>Level:</b> 70.77 mOD	<b>Scale</b> 1:50

Well / Backfill	Water Strikes	Samples & In Situ Testing			Casing / Flush	Level (m AOD)	Depth (m)	Stratum Description	Legend
		Depth (m)	Type	Results					
						61.07	9.70	(MADE GROUND) Open hole drilling. Driller described metal, plastic and timber.	
						60.27	10.50	Open hole drilling. Driller described gravelly, clay SAND.	
						58.77	12.00	Open hole drilling. Driller described sand GRAVEL.	
						57.27	13.50	Open hole drilling. Driller described SAND.	
						55.77	15.00	Open hole drilling. Driller described sandy GRAVEL.	
						54.27	16.50	Open hole drilling. Driller described SAND.	
						52.77	18.00		
		Continued next sheet							

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<b>Groundwater:</b> Struck: -    Rose to: -    After: -    Sealed: -    Comment: -None encountered.				<b>Hole Information:</b> Hole Depth: 19.50m    Hole Diameter: -    Casing Diameter: 131mm			<b>Chiselling:</b> Depths (m): -    Time (hhmm): -    Tool: -		
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<b>Remarks:</b> Borehole complete at 19.50m bgl. 50mm dia. standpipe installed, response zone 1m to 8m.	<b>Shift Data:</b>	Groundwater: -	Shift (dd/mm/yyyy): 29/01/2016 to 01/02/2016	Casing depth: 10.50m to 19.50m	Remarks: End of shift
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<b>Equipment &amp; Methods:</b> Deltabase 520
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**LG08**

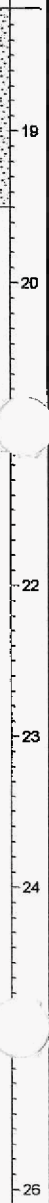
Sheet 3 of 3

**Project Name:** Fassaroe Historic Landfills  
**Project No.:** P15180  
**Co-ords:** 723855E - 718377N  
**Hole Type:** RO

**Client:** RPS Consulting Engineers  
**Dates:** 29/01/2016-01/02/2016  
**Level:** 70.77 mOD  
**Scale:** 1:50

Well / Backfill	Water Strikes	Samples & In Situ Testing			Casing / Flush	Level (m AOD)	Depth (m)	Stratum Description	Legend
		Depth (m)	Type	Results					
							Open hole drilling. Driller described SAND.		
					19.50	51.27	19.50		
							End of Borehole at 19.50 m		

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Water	Depth (m)	Type	Results	Casing	Level	Depth	Chiselling:	Tool
Struck	Rose to	After	Sealed	Comment	Hole Depth	Hole Diameter	Casing Diameter	Depths (m) Time (hhmm)
-	-	-	-None encountered.	19.50m	-	131mm		

**Remarks:** Borehole complete at 19.50m bgl. 50mm dia. standpipe installed, response zone 1m to 8m.  
**Shift Data:** Groundwater - 29/01/2016 01/02/2016 10.50m 19.50m  
 Remarks: End of shift, End of shift

**Equipment & Methods:** Deltabase 520





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Borehole No

**LG09**

Sheet 1 of 3

**Project Name:**

Assaroe Historic Landfills

**Project No.**

P15180

**Co-ords:** 723827E - 718411N

**Hole Type**

RO

**Client:** RPS Consulting Engineers

**Dates:**

02/02/2016-03/02/2016

**Level:** 71.06 mOD

**Scale**

1:50

Well / Backfill	Water Strikes	Samples & In Situ Testing			Casing Flush	Level (m AOD)	Depth (m)	Stratum Description	Legend
		Depth (m)	Type	Results					
							Open hole drilling. Driller described as Clay Gravel		
					69.56	1.50	(MADE GROUND) Open hole drilling. Driller described as plastic timber.		
					68.06	3.00	(MADE GROUND) Open hole drilling. Driller described gravel, timber and plastic.		
					66.56	4.50	(MADE GROUND) Open hole drilling. Driller described blocks timber and plastic.		
					65.06	6.00	(MADE GROUND) Open hole drilling. Driller described blocks, timber and plastic.		
					63.56	7.50	(MADE GROUND) Open hole drilling. Driller described boulders and gravel.		
					62.06	9.00			
								Continued next sheet	

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Groundwater:					Hole Information:			Chiselling:		
Struck	Rose to	After	Sealed	Comment	Hole Depth	Hole Diameter	Casing Diameter	Depths (m)	Time (hhmm)	Tool
-	-	-	-	-None encountered.	25.50m	-	131mm	to		

**Remarks:** Borehole complete at 25.50m bgl. 50mm dia. standpipe installed, response zone 1m to 17m.

Shift Data:	Groundwater	Shift (dd/mm/yyyy)	Casing depth	Remarks
-	-	02/02/2016	16.50m	End of shift
-	-	03/02/2016	25.50m	End of shift

**Equipment & Methods:** Deltabase520



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**LG09**

Sheet 2 of 3

**Project Name:**

Fassaroe Historic Landfills

**Project No.:**

P15180

**Co-ords:** 723827E - 718411N

**Hole Type:**

RO

**Client:** RPS Consulting Engineers

**Dates:**

02/02/2016-03/02/2016

**Level:** 71.06 mOD

**Scale:**

1:50

Well / Backfill	Water Strikes	Samples & In Situ Testing			Casing / Flush	Level (m AOD)	Depth (m)	Stratum Description	Legend
		Depth (m)	Type	Results					
							(MADE GROUND) Open hole drilling. Driller described boulders and plastic		
					60.56	10.50	(MADE GROUND) Open hole drilling. Driller described boulders, plastic and timber.		
					59.06	12.00	(MADE GROUND) Open hole drilling. Driller described boulders and plastic		
					57.56	13.50	(MADE GROUND) Open hole drilling. Driller described boulders, plastic and timber.		
					56.06	15.00	(MADE GROUND) Open hole drilling. Driller described boulders and timber.		
					54.46	16.60	(MADE GROUND) Open hole drilling. Driller described plastic boulders.		
					53.26	17.80	Open hole drilling. Driller described sandy GRAVEL.		
					53.06	18.00			
Continued next sheet									

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**Groundwater:**

Struck	Rose to	After	Sealed	Comment
-	-	-	-	-None encountered.

**Hole Information:**

Hole Depth	Hole Diameter	Casing Diameter
25.50m	-	131mm

**Chiselling:**

Depths (m)	Time (hhmm)	Tool
to		

**Remarks:** Borehole complete at 25.50m bgl. 50mm dia. standpipe installed, response zone 1m to 17m.

**Shift Data:**

Groundwater	Shift (dd/mm/yyyy)	Casing depth	Remarks
-	02/02/2016	16.50m	End of shift
-	03/02/2016	25.50m	End of shift

**Equipment & Methods:** Deltabase520



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**Project Name:**

Assaroe Historic Landfills

**Project No.**

P15180

**Co-ords:** 723827E - 718411N

**Hole Type**

RO

**Client:** RPS Consulting Engineers

**Dates:**

02/02/2016-03/02/2016

**Level:** 71.06 mOD

**Scale**

1:50

Well / Backfill	Water Strikes	Samples & In Situ Testing			Casing Flush	Level (m AOD)	Depth (m)	Stratum Description	Legend
		Depth (m)	Type	Results					
							Open hole drilling. Driller described gravelly SAND.		
					51.56	19.50	Open hole drilling. Driller described SAND.		
					25.50	45.56	25.50	End of Borehole at 25.50 m	

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Water	Depth (m)	Type	Results	Casing	Level	Depth	Chiselling:	Time (hhmm)	Tool
Struck	Rose to	After	Sealed	Comment	Hole Depth	Hole Diameter	Casing Diameter	Depths (m)	
-	-	-	-	-None encountered.	25.50m	-	131mm	to	

**Remarks:** Borehole complete at 25.50m bgl. 50mm dia. standpipe installed, response zone 1m to 17m.

Shift Data:	Groundwater	Shift (dd/mm/yyyy)	Casing depth	Remarks
-	-	02/02/2016	16.50m	End of shift
-	-	03/02/2016	25.50m	End of shift

**Equipment & Methods:** Deltabase520





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Borehole No  
**LG10**

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<b>Project Name:</b> Fassaroe Historic Landfills	<b>Project No.:</b> P15180	<b>Co-ords:</b> 723905E - 718400N	<b>Hole Type:</b> Cable/Rotary
<b>Client:</b> RPS Consulting Engineers	<b>Dates:</b> 08/02/2016-11/02/2016	<b>Level:</b> 66.37 mOD	<b>Scale:</b> 1:50

Well / Backfill	Water Strikes	Samples & In Situ Testing			Casing / Flush	Level (m AOD)	Depth (m)	Stratum Description	Legend
		Depth (m)	Type	Results					
							(MADE GROUND) Driller described clayey GRAVEL.		
					65.37	1.00	(MADE GROUND) Driller described black gravel and timber and bags.	1	
					64.37	2.00	(MADE GROUND) Driller described black bags and timber.	2	
					63.37	3.00	(MADE GROUND) Driller described black waste and plastic.	3	
					62.37	4.00	(MADE GROUND) Driller described bit of clay with waste.	4	
					61.37	5.00	(MADE GROUND) Driller described timber with some gravelly clay.	5	
					60.37	6.00	(MADE GROUND) Driller described black clay with plastic.	6	
					59.37	7.00	(MADE GROUND) Driller described waste with timber.	7	
					58.37	8.00	(MADE GROUND) Driller described timber with steel rope.	8	
					57.37	9.00			
Continued next sheet									

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<b>Groundwater:</b>				<b>Hole Information:</b>			<b>Chiselling:</b>			
Struck	Rose to	After	Sealed	Comment	Hole Depth	Hole Diameter	Casing Diameter	Depths (m)	Time (hhmm)	Tool
-	-	-	-	-None encountered.	10.70m 21.00m	-	200mm 131mm	10.60 to 10.70	0100	Chisel

<b>Remarks:</b> Cable tool borehole complete at 10.7m bgl. Rotary open hole borehole complete at 21.0m bgl. 50mm dia. standpipe installed, response zone 1m to 18m.	<b>Shift Data:</b>	Groundwater	Shift (dd/mm/yyyy)	Casing depth	Remarks
	-	-	08/02/2016	4.00m	End of shift
	-	-	09/02/2016	10.70m	End of shift
		-	11/02/2016	21.00m	End shift

**Equipment & Methods:** Dando 2000 Deltabase 520



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Borehole No  
**LG10**

Sheet 2 of 3

<b>Project Name:</b> Assaroe Historic Landfills	<b>Project No.:</b> P15180	<b>Co-ords:</b> 723905E - 718400N	<b>Hole Type:</b> Cable/Rotary
<b>Client:</b> RPS Consulting Engineers	<b>Dates:</b> 08/02/2016-11/02/2016	<b>Level:</b> 66.37 mOD	<b>Scale:</b> 1:50

Well / Backfill	Water Strikes	Samples & In Situ Testing			Casing / Flush	Level (m AOD)	Depth (m)	Stratum Description	Legend
		Depth (m)	Type	Results					
							(MADE GROUND) Driller described plastic and metal.		
					56.37	10.00	(MADE GROUND) Driller described waste and bits of steel.		
					10.70	55.67	10.70		(MADE GROUND) Open hole drilling Driller described glass and timber.
					52.87	13.50			(MADE GROUND) Open hole drilling Driller described sand and gravel.
					51.37	15.00			(MADE GROUND) Open hole drilling Driller described plastic, sand gravel and timber.
				17.00					
					48.37	18.00			
Continued next sheet									

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<b>Groundwater:</b> Struck: - Rose to: - After: - Sealed: - Comment: -None encountered.	<b>Hole Information:</b> Hole Depth: 10.70m / 21.00m Hole Diameter: - Casing Diameter: 200mm / 131mm	<b>Chiselling:</b> Depths (m): 10.60 to 10.70 Time (hh:mm): 0:10 Tool: Chisel
--	---	--

<b>Remarks:</b> Cable tool borehole complete at 10.7m bgl. Rotary open hole borehole complete at 21.0m bgl. 50mm dia. standpipe installed, response zone 1m to 18m.	<b>Shift Data:</b>																
	<table border="1"> <tr> <th>Groundwater</th> <th>Shift (dd/mm/yyyy)</th> <th>Casing depth</th> <th>Remarks</th> </tr> <tr> <td>-</td> <td>08/02/2016</td> <td>4.00m</td> <td>End of shift</td> </tr> <tr> <td>-</td> <td>09/02/2016</td> <td>10.70m</td> <td>End of shift</td> </tr> <tr> <td>-</td> <td>11/02/2016</td> <td>21.00m</td> <td>End of shift</td> </tr> </table>	Groundwater	Shift (dd/mm/yyyy)	Casing depth	Remarks	-	08/02/2016	4.00m	End of shift	-	09/02/2016	10.70m	End of shift	-	11/02/2016	21.00m	End of shift
Groundwater	Shift (dd/mm/yyyy)	Casing depth	Remarks														
-	08/02/2016	4.00m	End of shift														
-	09/02/2016	10.70m	End of shift														
-	11/02/2016	21.00m	End of shift														

**Equipment & Methods:** Dando 2000 Deltabase 520







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Logged By  
KL/ GW

Borehole No

**LG11**

Sheet 1 of 2

**Project Name:**

Assaroe Historic Landfills

**Project No.**

P15180

**Co-ords:** 723425E - 718455N

**Hole Type**

Cable/Rotary

**Client:** RPS Consulting Engineers

**Dates:**

18/02/2016-22/02/2016

**Level:** 95.37 mOD

**Scale**

1:50

Well / Backfill	Water Strikes	Samples & In Situ Testing			Casing Flush	Level (m AOD)	Depth (m)	Stratum Description	Legend
		Depth (m)	Type	Results					
					0.50	94.87	0.50	Open hole drilling. (MADE GROUND) Driller described sandy Clay. 0.5m bored cable tool, boring suspended.	
								(MADE GROUND) Open hole drilling. Driller described waste, concrete, tiles, rubber and steel.	

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Continued next sheet

Water	Depth (m)	Type	Results	Casing	Level	Depth
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<b>Groundwater:</b>					<b>Hole Information:</b>			<b>Chiselling:</b>		
Struck	Rose to	After	Sealed	Comment	Hole Depth	Hole Diameter	Casing Diameter	Depths (m)	Time (hhmm)	Tool
-	-	-	-	-None encountered.	0.50m 17.00m	-	200mm 130mm	to		

<b>Remarks:</b> Cable tool borehole complete at 0.5m bgl. Rotary open-hole borehole complete at 20.0m bgl. 50mm dia. standpipe installed, response zone 1m to 13m.	<b>Shift Data:</b>	Groundwater	Shift (dd/mm/yyyy)	Casing depth	Remarks
		-	18/02/2016 22/02/2016	0.50m 17.00m	End of shift End of shift

<b>Equipment &amp; Methods:</b> Deltabase 520
---



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 GW

Logged By  
 KJ/GW

Borehole No

**LG11**

Sheet 2 of 2

**Project Name:**

Fassaroe Historic Landfills

**Project No.**

P15180

**Co-ords:** 723425E - 718455N

**Hole Type**

Cable/Rotary

**Client:** RPS Consulting Engineers

**Dates:**

18/02/2016-22/02/2016

**Level:** 95.37 mOD

**Scale**

1:50

Well / Backfill	Water Strikes	Samples & In Situ Testing			Casing / Flush	Level (m AOD)	Depth (m)	Stratum Description	Legend
		Depth (m)	Type	Results					
							(MADE GROUND) Open hole drilling. Driller described waste, concrete, tiles, rubber and steel.		
								10	
								11	
								12	
								13	
						87.37	Open hole drilling. Driller described SAND.	14	
								15	
								16	
					17.00	78.37	End of Borehole at 17.00 m	17	

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**Groundwater:**  
 Struck: -  
 Rose to: -  
 After: -  
 Sealed: -  
 Comment: -None encountered.

**Hole Information:**  
 Hole Depth: 0.50m / 17.00m  
 Hole Diameter: -  
 Casing Diameter: 200mm / 130mm

**Chiselling:**  
 Depths (m): -  
 Time (hhmm): -  
 Tool: -

**Remarks:** Cable tool borehole complete at 0.5m bgl. Rotary open-hole borehole complete at 20.0m bgl. 50mm dia. standpipe installed, response zone 1m to 13m.

**Shift Data:**  
 Groundwater: -  
 Shift (dd/mm/yyyy): 18/02/2016 to 22/02/2016  
 Casing depth: 0.50m to 17.00m  
 Remarks: End of shift / End of shift

**Equipment & Methods:** Deltabase 520



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Borehole No  
**LG12**

Sheet 1 of 3

<b>Project Name:</b> Dussaroe Historic Landfills	<b>Project No.</b> P15180	<b>Co-ords:</b> 723437E - 718445N	<b>Hole Type</b> Rotary
<b>Client:</b> RPS Consulting Engineers	<b>Dates:</b> 27/01/2015	<b>Level:</b> 95.96 mOD	<b>Scale</b> 1:50

Well / Backfill	Water Strikes	Samples & In Situ Testing			Casing Flush	Level (m AOD)	Depth (m)	Stratum Description	Legend
		Depth (m)	Type	Results					
							Open hole drilling. (MADE GROUND) Driller describes gravelly CLAY.		
					94.66	1.30	Open hole drilling. (MADE GROUND) Driller describes BOULDERS.		
					93.36	2.60	Open hole drilling. (MADE GROUND) Driller describes waste mixed with gravel.		
					88.46	7.50	Open hole drilling. (MADE GROUND) Driller describes waste, timber and concrete blocks.		

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Water	Depth (m)	Type	Results	Casing	Level	Depth
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<b>Groundwater:</b> Struck -    Rose to -    After -    Sealed -    Comment - None encountered					<b>Hole Information:</b> Hole Depth 24.00m    Hole Diameter -    Casing Diameter 131mm			<b>Chiselling:</b> Depths (m) to    Time (hhmm)    Tool		
---	--	--	--	--	---	--	--	--	--	--

<b>Remarks:</b> Borehole complete at 24.0m bgl. 50mm dia. standpipe installed, response zone 1m to 12m.	<b>Shift Data:</b>	Groundwater	Shift (dd/mm/yyyy)	Casing depth	Remarks
		-	26/01/2016	12.00m	End of shift
		-	27/01/2016	24.00m	End of shift

<b>Equipment &amp; Methods:</b> Deltabase 520
---





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Borehole No  
**LG12**

Sheet 2 of 3

**Project Name:**

Fassaroe Historic Landfills

**Project No.:**

P15180

**Co-ords:** 723437E - 718445N

**Hole Type:**

Rotary

**Client:** RPS Consulting Engineers

**Dates:**

27/01/2015

**Level:** 95.96 mOD

**Scale:**

1:50

Well / Backfill	Water Strikes	Samples & In Situ Testing			Casing / Flush	Level (m AOD)	Depth (m)	Stratum Description	Legend
		Depth (m)	Type	Results					
							Open hole drilling. (MADE GROUND) Driller describes waste, timber and concrete blocks.		
					82.96	13.00	Open hole drilling. Driller describes SAND.		

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Groundwater:					Hole Information:			Chiselling:		
Struck	Rose to	After	Sealed	Comment	Hole Depth	Hole Diameter	Casing Diameter	Depths (m)	Time (hhmm)	Tool
-	-	-	-	- None encountered	24.00m	-	131mm	to		

<b>Remarks:</b> Borehole complete at 24.0m bgl. 50mm dia. standpipe installed, response zone 1m to 12m.	<b>Shift Data:</b> Groundwater	Shift (dd/mm/yyyy)	Casing depth	Remarks
	-	26/01/2016	12.00m	End of shift
	-	27/01/2016	24.00m	End of shift

**Equipment & Methods:** Deltabase 520





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Borehole No  
**LG12**

Sheet 3 of 3

<b>Project Name:</b> Lissaroe Historic Landfills	<b>Project No.:</b> P15180	<b>Co-ords:</b> 723437E - 718445N	<b>Hole Type:</b> Rotary
<b>Client:</b> RPS Consulting Engineers	<b>Dates:</b> 27/01/2015	<b>Level:</b> 95.96 mOD	<b>Scale:</b> 1:50

Well / Water Backfill	Water Strikes	Samples & In Situ Testing			Casing Flush	Level (m AOD)	Depth (m)	Stratum Description	Legend
		Depth (m)	Type	Results					
							Open hole drilling. Driller describes SAND.		
								19	
								20	
								21	
								22	
								23	
					24.00	71.96	24.00	24	
							End of Borehole at 24.00 m		
								25	
								26	

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Water	Depth (m)	Type	Results	Casing	Level	Depth
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<b>Groundwater:</b> Struck: -    Rose to: -    After: -    Sealed: -    Comment: - None encountered				<b>Hole Information:</b> Hole Depth: 24.00m    Hole Diameter: -    Casing Diameter: 131mm			<b>Chiselling:</b> Depths (m): -    Time (hhmm): -    Tool: -		
--	--	--	--	--	--	--	--	--	--

<b>Remarks:</b> Borehole complete at 24.0m bgl. 50mm dia. standpipe installed, response zone 1m to 12m.	<b>Shift Data:</b>												
	<table border="1"> <tr> <th>Groundwater</th> <th>Shift (dd/mm/yyyy)</th> <th>Casing depth</th> <th>Remarks</th> </tr> <tr> <td>-</td> <td>26/01/2016</td> <td>12.00m</td> <td>End of shift</td> </tr> <tr> <td>-</td> <td>27/01/2016</td> <td>24.00m</td> <td>End of shift</td> </tr> </table>	Groundwater	Shift (dd/mm/yyyy)	Casing depth	Remarks	-	26/01/2016	12.00m	End of shift	-	27/01/2016	24.00m	End of shift
Groundwater	Shift (dd/mm/yyyy)	Casing depth	Remarks										
-	26/01/2016	12.00m	End of shift										
-	27/01/2016	24.00m	End of shift										

<b>Equipment &amp; Methods:</b> Deltabase 520
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Borehole No  
**LG13**

Sheet 1 of 3

<b>Project Name:</b> Fassaroe Historic Landfills	<b>Project No.</b> P15180	<b>Co-ords:</b> 723467E - 718464N	<b>Hole Type</b> RO
<b>Client:</b> RPS Consulting Engineers	<b>Dates:</b> 22/02/2016-23/02/2016	<b>Level:</b> 96.05 mOD	<b>Scale</b> 1:50

Well / Backfill	Water Strikes	Samples & In Situ Testing			Casing Flush	Level (m AOD)	Depth (m)	Stratum Description	Legend
		Depth (m)	Type	Results					
						95.75	0.30	Open hole drilling. (MADE GROUND) Driller described sandy Clay.	
								(MADE GROUND) Open hole drilling. Driller described concrete blocks.	
						94.15	1.90	(MADE GROUND) Open hole drilling. Driller described waste.	
						87.05	9.00		
Continued next sheet									

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<b>Groundwater:</b>				<b>Hole Information:</b>			<b>Chiselling:</b>			
Struck	Rose to	After	Sealed	Comment	Hole Depth	Hole Diameter	Casing Diameter	Depths (m)	Time (hhmm)	Tool
-	-	-	-	-None encountered.	20.00m	-	131mm	to		

<b>Remarks:</b> Borehole complete at 20.0m bgl. 50mm dia. standpipe installed, response zone 1m to 9m.	<b>Shift Data:</b>
	Groundwater: - Shift (dd/mm/yyyy): 22/02/2016 to 23/02/2016 Casing depth: 9.00m to 20.00m Remarks: End of shift to End of shift

**Equipment & Methods:** Deltabase 520









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Borehole No  
**LG14**

Sheet 1 of 3

<b>Project Name:</b> Assaroe Historic Landfills	<b>Project No.</b> P15180	<b>Co-ords:</b> 723041E - 718343N	<b>Hole Type</b> Cable/Rotary
<b>Client:</b> RPS Consulting Engineers	<b>Dates:</b> 15/02/2016-16/02/2016	<b>Level:</b> 93.44 mOD	<b>Scale</b> 1:50

Well / Backfill	Water Strikes	Samples & In Situ Testing			Casing Flush	Level (m AOD)	Depth (m)	Stratum Description	Legend
		Depth (m)	Type	Results					
						92.44	1.00	(MADE GROUND) Driller described waste with plastic	
						91.44	2.00	(MADE GROUND) Driller described waste and plastic	
						90.44	3.00	(MADE GROUND) Driller described waste bags	
						89.44	4.00	(MADE GROUND) Driller described waste bags and rubber	
						88.44	5.00	(MADE GROUND) Driller described bags and rubber	
						87.44	6.00	(MADE GROUND) Driller described plastic and steel	
					6.80	86.64	6.80	(MADE GROUND) Driller described waste, difficult drilling slow progress. From 6.80m bgl progress slow due to density of waste.	
Continued next sheet									

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<b>Groundwater:</b>					<b>Hole Information:</b>			<b>Chiselling:</b>		
Struck	Rose to	After	Sealed	Comment	Hole Depth	Hole Diameter	Casing Diameter	Depths (m)	Time (hhmm)	Tool
23.00m	-	-	-		6.80m 23.00m	-	200mm 131mm	6.70 to 6.80	0100	Chisel

<b>Remarks:</b> Cable tool borehole complete at 6.8m bgl. Rotary open hole borehole complete at 23.0m bgl. 50mm dia. standpipe installed, response zone 1m to 12m.	<b>Shift Data:</b>			
	Groundwater	Shift (dd/mm/yyyy)	Casing depth	Remarks
	-	15/02/2016	5.00m	End of shift
	-	16/02/2016	23.00m	End shift
	-	16/02/2016	-	End shift

**Equipment & Methods:** Dando 2000, Deltabase 520





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Borehole No

**LG14**

Sheet 2 of 3

**Project Name:**

Fassaroe Historic Landfills

**Project No.**

P15180

**Co-ords:** 723041E - 718343N

**Hole Type**

Cable/Rota

**Client:** RPS Consulting Engineers

**Dates:**

15/02/2016-16/02/2016

**Level:** 93.44 mOD

**Scale**

1:50

Well / Backfill	Water Strikes	Samples & In Situ Testing			Casing / Flush	Level (m AOD)	Depth (m)	Stratum Description	Legend
		Depth (m)	Type	Results					
							(MADE GROUND) Driller described waste, difficult drilling slow progress.		
					80.94	12.50	Open hole drilling, Driller described very fine, wet blowing SAND.		

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Continued next sheet

**Groundwater:**

Struck	Rose to	After	Sealed	Comment
23.00m	-	-	-	

**Hole Information:**

Hole Depth	Hole Diameter	Casing Diameter
6.80m	-	200mm
23.00m	-	131mm

**Chiselling:**

Depths (m)	Time (hh:mm)	Tool
6.70 to 6.80	0100	Chisel

**Remarks:** Cable tool borehole complete at 6.8m bgl. Rotary open hole borehole complete at 23.0m bgl. 50mm dia. standpipe installed, response zone 1m to 12m.

Shift Data:	Groundwater	Shift (dd/mm/yyyy)	Casing depth	Remarks
-	-	15/02/2016	5.00m	End of shift
-	-	16/02/2016	23.00m	End shift
-	-	16/02/2016	-	End shift

**Equipment & Methods:** Dando 2000, Deltabase 520





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Borehole No

**LG15**

Sheet 1 of 3

**Project Name:**

Fassaroe Historic Landfills

**Project No.**

P15180

**Co-ords:** 722727E - 718288N

**Hole Type**

Cable/Rota.

**Client:** RPS Consulting Engineers

**Dates:**

17/02/2016-19/02/2016

**Level:** 103.97 mOD

**Scale**

1:50

Well / Backfill	Water Strikes	Samples & In Situ Testing			Casing / Flush	Level (m AOD)	Depth (m)	Stratum Description	Legend
		Depth (m)	Type	Results					
							(MADE GROUND) Driller described waste and clay		
					102.97	1.00	(MADE GROUND) Driller described waste and some concrete	1	
					101.97	2.00	(MADE GROUND) Driller described waste with plastic	2	
					100.97	3.00	(MADE GROUND) Driller described waste and timber	3	
					99.97	4.00	(MADE GROUND) Driller described plastic bits	4	
					98.97	5.00	(MADE GROUND) Driller described metal	5	
					98.50	5.50	(MADE GROUND) Driller described waste.	6	
								7	
								8	
					94.97	9.00			

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Groundwater:					Hole Information:			Chiselling:		
Struck	Rose to	After	Sealed	Comment	Hole Depth	Hole Diameter	Casing Diameter	Depths (m)	Time (hhmm)	Tool
-	-	-	-	-None encountered.	5.50m 20.00m	-	200mm 131mm	1.20 to 2.00 5.40 5.50	0020 0100	Chisel Chisel

Remarks:	Shift Data:
Cable tool borehole complete at 5.5m bgl. Rotary open hole borehole complete at 20.0m bgl. 50mm dia. standpipe installed, response zone 1m to 8m.	Groundwater: - Shift (dd/mm/yyyy): 17/02/2016 to 19/02/2016 Casing depth: 5.50m to 20.00m Remarks: End of shift, End shift.

**Equipment & Methods:** Dando 2000, Deltabase 520



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Logged By  
GW

Borehole No  
**LG15**

Sheet 2 of 3

<b>Project Name:</b> Assaroe Historic Landfills	<b>Project No.</b> P15180	<b>Co-ords:</b> 722727E - 718288N	<b>Hole Type</b> Cable/Rotary
<b>Client:</b> RPS Consulting Engineers	<b>Dates:</b> 17/02/2016-19/02/2016	<b>Level:</b> 103.97 mOD	<b>Scale</b> 1:50

Well / Backfill	Water Strikes	Samples & In Situ Testing			Casing / Flush	Level (m AOD)	Depth (m)	Stratum Description	Legend
		Depth (m)	Type	Results					
							Open hole drilling, driller described GRAVEL		
					90.77	13.20	Open hole drilling, driller described fine Sandy GRAVEL		

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Water	Depth (m)	Type	Results	Casing	Level	Depth

<b>Groundwater:</b>				<b>Hole Information:</b>			<b>Chiselling:</b>			
Struck	Rose to	After	Sealed	Comment	Hole Depth	Hole Diameter	Casing Diameter	Depths (m)	Time (hhmm)	Tool
-	-	-	-	-None encountered.	5.50m 20.00m	-	200mm 131mm	1.20 to 2.00 5.40 to 5.50	0020 0100	Chisel Chisel

<b>Remarks:</b> Cable tool borehole complete at 5.5m bgl. Rotary open hole borehole complete at 20.0m bgl. 50mm dia. standpipe installed, response zone 1m to 8m.	<b>Shift Data:</b>	Groundwater	Shift (dd/mm/yyyy)	Casing depth	Remarks
		-	17/02/2016	5.50m	End of shift
		-	19/02/2016	20.00m	End shift.

**Equipment & Methods:** Dando 2000, Deltabase 520





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Borehole No  
**LG15**

Sheet 3 of 3

<b>Project Name:</b> Fassaroe Historic Landfills	<b>Project No.</b> P15180	<b>Co-ords:</b> 722727E - 718288N	<b>Hole Type:</b> Cable/Rotary
<b>Client:</b> RPS Consulting Engineers	<b>Dates:</b> 17/02/2016-19/02/2016	<b>Level:</b> 103.97 mOD	<b>Scale:</b> 1:50

Well / Backfill	Water Strikes	Samples & In Situ Testing			Casing / Flush	Level (m AOD)	Depth (m)	Stratum Description	Legend
		Depth (m)	Type	Results					
							Open hole drilling, driller described fine Sandy GRAVEL		
					20.00	83.97	20.00	End of Borehole at 20.00 m	

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Water	Depth (m)	Type	Results	Casing	Level	Depth	Chiselling:			
Struck	Rose to	After	Sealed	Comment	Hole Depth	Hole Diameter	Casing Diameter	Depths (m)	Time (hhmm)	Tool
-	-	-	-None encountered.		5.50m 20.00m	-	200mm 131mm	1.20 to 2.00 5.40 5.50	0020 0100	Chisel Chisel

<b>Remarks:</b> Cable tool borehole complete at 5.5m bgl. Rotary open hole borehole complete at 20.0m bgl. 50mm dia. standpipe installed, response zone 1m to 8m.	<b>Shift Data:</b>	Groundwater	Shift (dd/mm/yyyy)	Casing depth	Remarks
		-	17/02/2016 19/02/2016	5.50m 20.00m	End of shift End shift

**Equipment & Methods:** Dando 2000, Deltabase 520





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 Logged By  
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Borehole No  
**LG16**

Sheet 1 of 2

<b>Project Name:</b> Assaroe Historic Landfills	<b>Project No.:</b> P15180	<b>Co-ords:</b> 722748E - 718100N	<b>Hole Type:</b> RO
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<b>Client:</b> RPS Consulting Engineers	<b>Dates:</b> 04/02/2016-05/02/2016	<b>Level:</b> 99.52 mOD	<b>Scale:</b> 1:50
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Well / Backfill	Water Strikes	Samples & In Situ Testing			Casing / Flush	Level (m AOD)	Depth (m)	Stratum Description	Legend
		Depth (m)	Type	Results					
	▽					98.32	1.20	Open hole drilling. Driller described sandy CLAY	
						95.02	7.50	(MADE GROUND) Open hole drilling. Driller described a wet black silty material mixed with waste. Very bad smell.	
						93.52	6.00	Open hole drilling. Driller described dry black SAND.	
							Open hole drilling. Driller described SAND. Black but turns brown at 7.5m bgl		

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Struck	Rose to	After	Sealed	Comment	Hole Depth	Hole Diameter	Casing Diameter	Chiselling: Depths (m)	Time (hhmm)	Tool
1.20m	-	-	-	perched.	16.00m	-	131mm			
11.20m								to		

<b>Remarks:</b> Borehole completed at 16.0m bgl. 50mm dia. standpipe installed, response zone 1m to 3.5m.	<b>Shift Data:</b>
	Groundwater: - Shift (dd/mm/yyyy): 04/02/2016 to 05/02/2016 Casing depth: 6.00m to 16.00m Remarks: End of shift

<b>Equipment &amp; Methods:</b> Deltabase520
--



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Borehole No  
**LG16**

Sheet 2 of 2

<b>Project Name:</b> Fassaroe Historic Landfills	<b>Project No.</b> P15180	<b>Co-ords:</b> 722748E - 718100N	<b>Hole Type:</b> RO
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<b>Client:</b> RPS Consulting Engineers	<b>Dates:</b> 04/02/2016-05/02/2016	<b>Level:</b> 99.52 mOD	<b>Scale:</b> 1:50
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Well / Backfill	Water Strikes	Samples & In Situ Testing			Casing / Flush	Level (m AOD)	Depth (m)	Stratum Description	Legend
		Depth (m)	Type	Results					
[Hatched Area]	[Symbol]					90.32	9.20	Open hole drilling. Driller described SAND. Black but turns brown at 7.6m bgl Open hole drilling. Driller described GRAVEL.	[Gravel/Sand Legend]
						88.52	11.00	Open hole drilling. Driller described gravel and SAND.	
						16.00	83.52	16.00	

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<b>Groundwater:</b> Struck: 1.20m Rose to: 11.20m After: - Sealed: - Comment: perched.					<b>Hole Information:</b> Hole Depth: 16.00m Hole Diameter: - Casing Diameter: 131mm			<b>Chiselling:</b> Depths (m): to Time (hhmm): Tool:		
---	--	--	--	--	--	--	--	---	--	--

<b>Remarks:</b> Borehole completed at 16.0m bgl. 50mm dia. standpipe installed, response zone 1m to 3.5m.	<b>Shift Data:</b>	Groundwater: -	Shift (dd/mm/yyyy): 04/02/2016 to 05/02/2016	Casing depth: 6.00m to 16.00m	Remarks: End of shift to End of shift
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<b>Equipment &amp; Methods:</b> Deltabase520
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Borehole No  
**LG17**

Sheet 1 of 1

<b>Project Name:</b> Assaroe Historic Landfills	<b>Project No.:</b> P15180	<b>Co-ords:</b> 722707E - 718059N	<b>Hole Type:</b> Cable
<b>Client:</b> RPS Consulting Engineers	<b>Dates:</b> 18/02/2016	<b>Level:</b> 100.51 mOD	<b>Scale:</b> 1:50

Well / Backfill	Water Strikes	Samples & In Situ Testing			Casing Flush	Level (m AOD)	Depth (m)	Stratum Description	Legend
		Depth (m)	Type	Results					
						99.51	1.00	(MADE GROUND) Driller described waste bags.	
						98.51	2.00	(MADE GROUND) Driller described waste and gravel.	
						97.51	3.00	(MADE GROUND) Driller described waste.	
						96.51	4.00	(MADE GROUND) Driller described waste.	
						95.51	5.00	Driller described Natural Ground.	
						95.01	5.50	End of Borehole at 5.50 m	

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Water	Depth (m)	Type	Results	Casing	Level	Depth
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<b>Groundwater:</b> Struck: -    Rose to: -    After: -    Sealed: -    Comment: -None encountered.				<b>Hole Information:</b> Hole Depth: 5.50m    Hole Diameter: -    Casing Diameter: 200mm			<b>Chiselling:</b> Depths (m): 5.40 to 5.50    Time (hhmm): 0100    Tool: Chisel		
--	--	--	--	---	--	--	---	--	--

<b>Remarks:</b> Borehole complete at 5.0m bgl. 50mm diameter standpipe installed response zone 1.0m to 4.0m.	<b>Shift Data:</b> Groundwater: -    Shift (dd/mm/yyyy): 18/02/2016    Casing depth: 5.50m    Remarks: End of shift
--	---

<b>Equipment &amp; Methods:</b> Dando 2000
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Borehole No  
**LG18**

Sheet 1 of 3

<b>Project Name:</b> Fassaroe Historic Landfills	<b>Project No.</b> P15180	<b>Co-ords:</b> 723040E - 718381N	<b>Hole Type</b> RO
<b>Client:</b> RPS Consulting Engineers	<b>Dates:</b> 15/02/2016-16/02/2016	<b>Level:</b> 92.42 mOD	<b>Scale</b> 1:50

Well / Backfill	Water Strikes	Samples & In Situ Testing			Casing Flush	Level (m AOD)	Depth (m)	Stratum Description	Legend
		Depth (m)	Type	Results					
						91.62	0.80	Open hole drilling. (MADE GROUND) Driller described sandy Clay.	
								(MADE GROUND) Open hole drilling. Driller described waste, concrete, steel, tyres and bricks.	

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Continued next sheet

Water	Depth (m)	Type	Results	Casing	Level	Depth
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<b>Groundwater:</b> Struck 22.00m Rose to - After - Sealed - Comment -					<b>Hole Information:</b> Hole Depth 22.00m Hole Diameter - Casing Diameter 130mm			<b>Chiselling:</b> Depths (m) to Time (hhmm) Tool		
---	--	--	--	--	---	--	--	--	--	--

<b>Remarks:</b> Borehole complete at 22.0m bgl. 50mm dia. standpipe installed, response zone 1m to 10m.	<b>Shift Data:</b>	Groundwater	Shift (dd/mm/yyyy)	Casing depth	Remarks
		-	15/02/2016	9.60m	End of shift
			16/02/2016	22.00m	End of shift

<b>Equipment &amp; Methods:</b> Deltabase 520
---









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Borehole No  
**LG19**

Sheet 1 of 3

<b>Project Name:</b> ssaroe Historic Landfills	<b>Project No.</b> P15180	<b>Co-ords:</b> 722742E - 718394N	<b>Hole Type</b> Cable/Rotary
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<b>Client:</b> RPS Consulting Engineers	<b>Dates:</b> 16/02/2016-18/02/2016	<b>Level:</b> 103.90 mOD	<b>Scale</b> 1:50
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Well / Backfill	Water Strikes	Samples & In Situ Testing			Casing / Flush	Level (m AOD)	Depth (m)	Stratum Description	Legend
		Depth (m)	Type	Results					
							Open hole drilling. Refer to LG19 for overburden details.		
					6.80	97.10	6.80	(MADE GROUND) Open hole drilling. Driller described waste. From 6.80m to 16.0m bgl driller states arisings are wet.	

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Continued next sheet

Groundwater:					Hole Information:			Chiselling:		
Struck	Rose to	After	Sealed	Comment	Hole Depth	Hole Diameter	Casing Diameter	Depths (m)	Time (hhmm)	Tool
6.80m	-	-	-		6.80m	-	200mm			
26.00m					26.00m		131mm			

<b>Remarks:</b> Cable tool borehole complete at 6.8m bgl. Rotary open hole borehole complete at 26.0m bgl. 50mm dia. standpipe installed, response zone 1m to 15m.	<b>Shift Data:</b>	Groundwater	Shift (dd/mm/yyyy)	Casing depth	Remarks
		-	16/02/2018	6.60m	End shift
		-	18/02/2018	26.00m	End of shift

**Equipment & Methods:** Dando 2000, Deltabase 520







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Borehole No  
**LG19**

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<b>Project Name:</b> Assaroe Historic Landfills	<b>Project No.</b> P15180	<b>Co-ords:</b> 722742E - 718394N	<b>Hole Type</b> Cable/Rotary
<b>Client:</b> RPS Consulting Engineers	<b>Dates:</b> 16/02/2016-18/02/2016	<b>Level:</b> 103.90 mOD	<b>Scale</b> 1:50

Well / Backfill	Water Strikes	Samples & In Situ Testing			Casing Flush	Level (m AOD)	Depth (m)	Stratum Description	Legend
		Depth (m)	Type	Results					
							Open hole drilling. Driller described sandy GRAVEL.		
								19	
								20	
								21	
								22	
								23	
								24	
								25	
					26.00	77.90	26.00	26	
							End of Borehole at 26.00 m		

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Water	Depth (m)	Type	Results	Casing	Level	Depth

<b>Groundwater:</b>				<b>Hole Information:</b>			<b>Chiselling:</b>			
Struck	Rose to	After	Sealed	Comment	Hole Depth	Hole Diameter	Casing Diameter	Depths (m)	Time (hhmm)	Tool
6.80m	-	-	-		6.80m	-	200mm	to		
26.00m					26.00m		131mm			

<b>Remarks:</b> Cable tool borehole complete at 6.8m bgl. Rotary open hole borehole complete at 26.0m bgl. 50mm dia. standpipe installed, response zone 1m to 15m.	<b>Shift Data:</b>	Groundwater	Shift (dd/mm/yyyy)	Casing depth	Remarks
		-	16/02/2018	8.60m	End shift
		-	18/02/2018	26.00m	End of shift

<b>Equipment &amp; Methods:</b> Dando 2000, Dellabase 520
---







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Borehole No

**LG20**

Sheet 3 of 3

**Project Name:**

Fassaroe Historic Landfills

**Project No.**

P15180

**Co-ords:** 722761E - 718334N

**Hole Type**

RO

**Client:** RPS Consulting Engineers

**Dates:**

10/02/2016

**Level:** 103.82 mOD

**Scale**

1:50

Well / Backfill	Water Strikes	Samples & In Situ Testing			Casing / Flush	Level (m AOD)	Depth (m)	Stratum Description	Legend
		Depth (m)	Type	Results					
							Open hole drilling. Driller described sandy, clay GRAVEL.		
					83.22	20.60	Open hole drilling. Driller described wet GRAVEL. From 20.60 to 23.0m bgl arisings are wet.		
					23.00	103.82	End of Borehole at 23.00 m		

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Groundwater:					Hole Information:			Chiselling:		
Struck	Rose to	After	Sealed	Comment	Hole Depth	Hole Diameter	Casing Diameter	Depths (m)	Time (hhmm)	Tool
					23.00m	-	131mm			

**Remarks:** Borehole complete at 23.0m bgl. 50mm dia. standpipe installed, response zone 1m to 12m.

**Shift Data:** Groundwater - Shift (dd/mm/yyyy) 10/02/2016 Casing depth 23.00m Remarks End of shift

**Equipment & Methods:** Deltabase 520







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Borehole No  
**BH01**

Sheet 1 of 3

**Project Name:** Fassaroe Historic Landfills  
**Project No.:** P15180  
**Co-ords:** 723752E - 718464N  
**Hole Type:** RO

**Client:** RPS Consulting Engineers  
**Dates:** 04/02/2016  
**Level:** 79.22 mOD  
**Scale:** 1:50

Well / Backfill	Water Strikes	Samples & In Situ Testing			Casing / Flush	Level (m AOD)	Depth (m)	Stratum Description	Legend
		Depth (m)	Type	Results					
					77.72	1.50	Open hole drilling. Driller described clayey Gravel.		
					76.22	3.00	Open hole drilling. Driller described clayey SAND.		
					73.22	6.00	Open hole drilling. Driller described CLAY with boulder content.		
							Open hole drilling. Driller described clayey SAND with boulder content.		

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Groundwater:					Hole Information:			Chiselling:		
Struck	Rose to	After	Scaled	Comment	Hole Depth	Hole Diameter	Casing Diameter	Depths (m)	Time (hhmm)	Tool
15.00m	-	-	-		21.00m	150	131mm	to		

**Remarks:** Borehole complete at 25.50m bgl. 50mm diameter standpipe installed response zone 5m to 21m.  
**Shift Data:** Groundwater - Shift (dd/mm/yyyy) 04/02/2016 Casing depth 21.00m Remarks End of shift

**Equipment & Methods:** Deltabase 520



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Borehole No  
**BH01**

Sheet 2 of 3

<b>Project Name:</b> Issaroe Historic Landfills	<b>Project No.:</b> P15180	<b>Co-ords:</b> 723752E - 718464N	<b>Hole Type:</b> RO
<b>Client:</b> RPS Consulting Engineers	<b>Dates:</b> 04/02/2016	<b>Level:</b> 79.22 mOD	<b>Scale:</b> 1:50

Well / Backfill	Water Strikes	Samples & In Situ Testing			Casing Flush	Level (m AOD)	Depth (m)	Stratum Description	Legend
		Depth (m)	Type	Results					
					68.62	10.60	Open hole drilling. Driller described clayey SAND with boulder content.		
							Open hole drilling. Driller described clay, GRAVEL.		
					65.72	13.50	Open hole drilling. Driller described CLAY with boulder content.		
					64.22	15.00	Open hole drilling. Driller described CLAY		
							Continued next sheet		

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Struck	Rose to	After	Sealed	Comment	Hole Depth	Hole Diameter	Casing Diameter	Chiselling: Depths (m)	Time (hhmm)	Tool
15.00m	-	-	-		21.00m	150	131mm			

<b>Remarks:</b> Borehole complete at 25.50m bgl. 50mm diameter standpipe installed response zone 5m to 21m.	<b>Shift Data:</b> Groundwater - Shift (dd/mm/yyyy) 04/02/2016 Casing depth 21.00m Remarks End of shift
<b>Equipment &amp; Methods:</b> Deltabase 520	







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Drilled By  
AV

Logged By  
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Borehole No  
**BH03**

Sheet 1 of 3

<b>Project Name:</b> Assaroe Historic Landfills	<b>Project No.:</b> P15180	<b>Co-ords:</b> 723834E - 718313N	<b>Hole Type:</b> RO
<b>Client:</b> RPS Consulting Engineers	<b>Dates:</b> 04/02/2016	<b>Level:</b> 78.65 mOD	<b>Scale:</b> 1:50

Well / Backfill	Water Strikes	Samples & In Situ Testing			Casing / Flush	Level (m AOD)	Depth (m)	Stratum Description	Legend
		Depth (m)	Type	Results					
							Open hole drilling. Driller described CLAY.		
					77.15	1.50	Open hole drilling. Driller described CLAY with boulder content.		
					75.65	3.00	Open hole drilling. Driller described clayey, sandy GRAVEL.		
					74.15	4.50	Open hole drilling. Driller described SAND.		
					71.15	7.50	Open hole drilling. Driller described sandy GRAVEL.		

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<b>Groundwater:</b> Struck    Rose to    After    Sealed    Comment	<b>Hole Information:</b> Hole Depth    Hole Diameter    Casing Diameter 19.50m        150                131mm	<b>Chiselling:</b> Depths (m)    Time (hhmm)    Tool to
--	--	---

<b>Remarks:</b> Borehole complete at 19.50m bgl. 50mm dia. standpipe installed response zone 4.5m - 19.5m.	<b>Shift Data:</b> Groundwater    Shift (dd/mm/yyyy)    Casing depth    Remarks -                            04/02/2016            19.50m            End of shift
--	--

**Equipment & Methods:** Deltabase 520



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Borehole No  
**BH03**

Sheet 2 of 3

**Project Name:**

Fassaroe Historic Landfills

**Project No.**

P15180

Co-ords: 723834E - 718313N

**Hole Type**

RO

**Client:** RPS Consulting Engineers

**Dates:**

04/02/2016

**Level:** 78.65 mOD

**Scale**

1:50

Well / Backfill	Water Strikes	Samples & In Situ Testing			Casing / Flush	Level (m AOD)	Depth (m)	Stratum Description	Legend
		Depth (m)	Type	Results					
							Open hole drilling. Driller described sandy GRAVEL.		
					63.65	15.00	Open hole drilling. Driller describes SAND.		
					60.65	18.00			
Continued next sheet									

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**Groundwater:**

Struck    Rose to    After    Sealed    Comment

**Hole Information:**

Hole Depth    Hole Diameter    Casing Diameter  
 19.50m    150    131mm

**Chiselling:**

Depths (m)    Time (hhmm)    Tool  
 to

**Remarks:** Borehole complete at 19.50m bgl. 50mm dia. standpipe installed response zone 4.5m - 19.5m.

**Shift Data:** Groundwater    Shift (dd/mm/yyyy)    Casing depth    Remarks  
 -    04/02/2016    19.50m    End of shift

**Equipment & Methods:** Deltabase 520



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Borehole No  
**BH03**

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<b>Project Name:</b> ssaroe Historic Landfills	<b>Project No.</b> P15180	<b>Co-ords:</b> 723834E - 718313N	<b>Hole Type</b> RO
<b>Client:</b> RPS Consulting Engineers	<b>Dates:</b> 04/02/2016	<b>Level:</b> 78.65 mOD	<b>Scale</b> 1:50

Well / Backfill	Water Strikes	Samples & In Situ Testing			Casing / Flush	Level (m AOD)	Depth (m)	Stratum Description	Legend
		Depth (m)	Type	Results					
							Open hole drilling. Driller describes sandy GRAVEL.		
					19.50	59.15	19.50	End of Borehole at 19.50 m	
								19	
								20	
								21	
								22	
								23	
								24	
								25	
								26	

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<b>Groundwater:</b> Struck    Rose to    After    Sealed    Comment	<b>Hole Information:</b> Hole Depth    Hole Diameter    Casing Diameter 19.50m            150                    131mm	<b>Chiselling:</b> Depths (m)    Time (hhmm)    Tool to
--	--	---

<b>Remarks:</b> Borehole complete at 19.50m bgl. 50mm dia. standpipe installed response zone 4.5m - 19.5m.	<b>Shift Data:</b> Groundwater    Shift (dd/mm/yyyy)    Casing depth    Remarks -                                    04/02/2016            19.50m            End of shift
--	--

<b>Equipment &amp; Methods:</b> Deltabase 520
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Borehole No  
**BH04**

Sheet 1 of 3

**Project Name:** Fassaroe Historic Landfills  
**Project No.:** P15180  
**Co-ords:** 723659E - 718160N  
**Hole Type:** RO

**Client:** RPS Consulting Engineers  
**Dates:** 17/02/2016  
**Level:** 84.41 mOD  
**Scale:** 1:50

Well / Backfill	Water Strikes	Samples & In Situ Testing			Casing / Flush	Level (m AOD)	Depth (m)	Stratum Description	Legend
		Depth (m)	Type	Results					
							Open hole drilling. Driller described clayey GRAVEL	1	
					82.91	1.50	Open hole drilling. Driller described gravelly CLAY	2	
					81.41	3.00	Open hole drilling. Driller described clayey, gravel SAND.	3	
					79.91	4.50	Open hole drilling. Driller described sandy GRAVEL	4	
								5	
								6	
								7	
								8	

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Groundwater:					Hole Information:			Chiselling:		
Struck	Rose to	After	Sealed	Comment	Hole Depth	Hole Diameter	Casing Diameter	Depths (m)	Time (hhmm)	Tool
18.70m	-	-	-		25.40m	150	131mm			

**Remarks:** Borehole complete at 25.50m bgl. 50mm dia. standpipe installed response zone 13m - 25.5m.  
**Shift Data:** Groundwater - Shift (dd/mm/yyyy) 17/02/2016 Casing depth 25.50m Remarks End of shift

**Equipment & Methods:** Deltabase 520







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Borehole No  
**BH04**

Sheet 3 of 3

**Project Name:** Fassaroe Historic Landfills  
**Project No.:** P15180  
**Co-ords:** 723659E - 718160N  
**Hole Type:** RO

**Client:** RPS Consulting Engineers  
**Dates:** 17/02/2016  
**Level:** 84.41 mOD  
**Scale:** 1:50

Well / Backfill	Water Strikes	Samples & In Situ Testing			Casing / Flush	Level (m AOD)	Depth (m)	Stratum Description	Legend
		Depth (m)	Type	Results					
	▽						Open hole drilling. Driller described sandy GRAVEL		
					63.41	21.00	Open hole drilling. Driller described SAND		
					25.50	58.91	End of Borehole at 25.50 m		

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<b>Groundwater:</b>					<b>Hole Information:</b>			<b>Chiselling:</b>		
Struck	Rose to	After	Sealed	Comment	Hole Depth	Hole Diameter	Casing Diameter	Depths (m)	Time (hhmm)	Tool
18.70m	-	-	-		25.40m	150	131mm	to		

**Remarks:** Borehole complete at 25.50m bgl. 50mm dia. standpipe installed response zone 13m - 25.5m.  
**Shift Data:** Groundwater - Shift (dd/mm/yyyy) 17/02/2016 Casing depth 25.50m Remarks End of shift

**Equipment & Methods:** Deltabase 520





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Borehole No  
**BH05**

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**Project Name:**  
Fassaroe Historic Landfills

**Project No.**  
P15180

**Co-ords:** 723382E - 718381N

**Hole Type:**  
Rotary

**Client:** RPS Consulting Engineers

**Dates:**  
27/01/2016

**Level:** 96.06 mOD

**Scale:**  
1:50

Well / Backfill	Water Strikes	Samples & In Situ Testing			Casing / Flush	Level (m AOD)	Depth (m)	Stratum Description	Legend
		Depth (m)	Type	Results					
							Open hole drilling. Driller describes GRAVEL.		
					82.36	13.70	Open hole drilling. Driller describes SAND.		
					78.56	17.50	Open hole drilling. Driller describes SAND.		

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Water	Depth (m)	Type	Results	Casing	Level	Depth
Groundwater:	Struck	Rose to	After	Sealed	Comment	
	24.00m	-	-	-	Refer to detail	
<b>Hole Information:</b>				Hole Depth	Hole Diameter	Casing Diameter
				35.00m	150	131mm
<b>Chiselling:</b>				Depths (m)	Time (hhmm)	Tool
				to		

**Remarks:** Borehole complete at 35.0m bgl. 50mm dia. standpipe installed response zone 19m - 29m.

**Shift Data:**

Groundwater	Shift (dd/mm/yyyy)	Casing depth	Remarks
-	27/01/2016	24.00m	End of shift
-	28/01/2016	35.00m	End of shift

**Equipment & Methods:** Deltabase 520





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Borehole No  
**BH05**

Sheet 3 of 4

<b>Project Name:</b> assaroe Historic Landfills	<b>Project No.</b> P15180	<b>Co-ords:</b> 723382E - 718381N	<b>Hole Type</b> Rotary
<b>Client:</b> RPS Consulting Engineers	<b>Dates:</b> 27/01/2016	<b>Level:</b> 96.06 mOD	<b>Scale</b> 1:50

Well / Backfill	Water Strikes	Samples & In Situ Testing			Casing Flush	Level (m AOD)	Depth (m)	Stratum Description	Legend
		Depth (m)	Type	Results					
							Open hole drilling. Driller describes SAND.		
								19	
								20	
								21	
								22	
								23	
								24	
							From 24.0m bgl blowing sands.	24	
							From 24.0m to 35.0mbgl arisings are wet.	25	
								26	

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Continued next sheet

Water	Depth (m)	Type	Results	Casing	Level	Depth				
Struck	Rose to	After	Sealed	Comment	<b>Hole Information:</b>		<b>Chiselling:</b>			
24.00m	-	-	-	Refer to detail	Hole Depth	Hole Diameter	Casing Diameter	Depths (m)	Time (hhmm)	Tool
					35.00m	150	131mm	to		

<b>Remarks:</b> Borehole complete at 35.0m bgl. 50mm dia. standpipe installed response zone 19m - 29m.	<b>Shift Data:</b>	Groundwater	Shift (dd/mm/yyyy)	Casing depth	Remarks
		-	27/01/2016	24.00m	End of shift
		-	28/01/2016	35.00m	End of shift

<b>Equipment &amp; Methods:</b> Deitabase 520
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Borehole No  
**BH06**

Sheet 2 of 2

**Project Name:** Fassaroe Historic Landfills  
**Project No.:** P15180  
**Co-ords:** 723028E - 718310N  
**Hole Type:** RO

**Client:** RPS Consulting Engineers  
**Dates:** 17/02/2016  
**Level:** 95.27 mOD  
**Scale:** 1:50

Well / Backfill	Water Strikes	Samples & In Situ Testing			Casing Flush	Level (m AOD)	Depth (m)	Stratum Description	Legend
		Depth (m)	Type	Results					
							Open hole drilling. Driller described slightly wet, silty, sandy GRAVEL		
					14.00	95.27	14.00	End of Borehole at 14.00 m	

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Water	Depth (m)	Type	Results	Casing	Level	Depth
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<b>Groundwater:</b>					<b>Hole Information:</b>			<b>Chiselling:</b>		
Struck	Rose to	After	Sealed	Comment	Hole Depth	Hole Diameter	Casing Diameter	Depths (m)	Time (hhmm)	Tool
6.10m	-	-	-		14.00m	150	131mm	to		

**Remarks:** Borehole complete at 14.0m bgl. 50mm dia. standpipe installed response zone 2m - 14m.

**Shift Data:** Groundwater - Shift (dd/mm/yyyy) 17/02/2016 Casing depth 14.00m Remarks End of shift

**Equipment & Methods:** Deltabase 520





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Borehole No  
**BH07**

Sheet 1 of 3

<b>Project Name:</b> Dassaroo Historic Landfills	<b>Project No.:</b> P15180	<b>Co-ords:</b> 722642E - 718220N	<b>Hole Type:</b> RO
<b>Client:</b> RPS Consulting Engineers	<b>Dates:</b> 09/02/2016	<b>Level:</b> 106.11 mOD	<b>Scale:</b> 1:50

Well / Backfill	Water Strikes	Samples & In Situ Testing			Casing Flush	Level (m AOD)	Depth (m)	Stratum Description	Legend
		Depth (m)	Type	Results					
							Open hole drilling. Driller described sandy, clayey GRAVEL.		
					102.01	4.10	Open hole drilling. Driller described GRAVEL.		
					100.11	6.00	Open hole drilling. Driller described sandy, clayey GRAVEL.		
							Continued next sheet		

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<b>Groundwater:</b> Struck    Rose to    After    Sealed    Comment	<b>Hole information:</b> Hole Depth    Hole Diameter    Casing Diameter 21.00m            150                    131mm	<b>Chiselling:</b> Depths (m)    Time (hhmm)    Tool to
<b>Remarks:</b> Borehole complete at 21.0m bgl. 50mm dia. standpipe installed response zone 11m - 21m.	<b>Shift Data:</b> Groundwater    Shift (dd/mm/yyyy)    Casing depth    Remarks -                                    09/02/2016            21.00m            End of shift	
<b>Equipment &amp; Methods:</b> Deltabase 520		



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Borehole No  
**BH07**

Sheet 2 of 3

<b>Project Name:</b> Fassaroe Historic Landfills	<b>Project No.</b> P15180	<b>Co-ords:</b> 722642E - 718220N	<b>Hole Type:</b> RO
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<b>Client:</b> RPS Consulting Engineers	<b>Dates:</b> 09/02/2016	<b>Level:</b> 106.11 mOD	<b>Scale:</b> 1:50
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Well / Backfill	Water Strikes	Samples & In Situ Testing			Casing / Flush	Level (m AOD)	Depth (m)	Stratum Description	Legend
		Depth (m)	Type	Results					
							Open hole drilling. Driller described sandy, clayey GRAVEL.		
					93.01	13.10	Open hole drilling. Driller described GRAVEL. From 13.10 to 21.0m bgl arisings are wet.		
					88.31	17.80	Open hole drilling. Driller described sandy, gravelly		

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Continued next sheet

Water	Depth (m)	Type	Results	Casing	Level	Depth

<b>Groundwater:</b>					<b>Hole Information:</b>			<b>Chiselling:</b>		
Struck	Rose to	After	Sealed	Comment	Hole Depth	Hole Diameter	Casing Diameter	Depths (m)	Time (hhmm)	Tool
					21.00m	150	131mm			

**Remarks:** Borehole complete at 21.0m bgl. 50mm dia. standpipe installed response zone 11m - 21m.

**Shift Data:** Groundwater - Shift (dd/mm/yyyy) 09/02/2016 Casing depth 21.00m Remarks End of shift

**Equipment & Methods:** Deltabase 520



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Borehole No  
**BH07**

Sheet 3 of 3

<b>Project Name:</b> assaroe Historic Landfills	<b>Project No.</b> P15180	<b>Co-ords:</b> 722642E - 718220N	<b>Hole Type</b> RO
<b>Client:</b> RPS Consulting Engineers	<b>Dates:</b> 09/02/2016	<b>Level:</b> 106.11 mOD	<b>Scale</b> 1:50

Well / Backfill	Water Strikes	Samples & In Situ Testing			Casing / Flush	Level (m AOD)	Depth (m)	Stratum Description	Legend
		Depth (m)	Type	Results					
							CLAY/SILT.		
								19	
								20	
					21.00	85.11	21.00	21	
							End of Borehole at 21.00 m		
								22	
								23	
								24	
								25	
								26	

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<b>Groundwater:</b> Struck    Rose to    After    Sealed    Comment	<b>Hole Information:</b> Hole Depth    Hole Diameter    Casing Diameter 21.00m            150                    131mm	<b>Chiselling:</b> Depths (m)    Time (hhmm)    Tool to
<b>Remarks:</b> Borehole complete at 21.0m bgl. 50mm dia. standpipe installed response zone 11m - 21m.	<b>Shift Data:</b> Groundwater    Shift (dd/mm/yyyy)    Casing depth    Remarks -                                    09/02/2016                21.00m                End of shift	
<b>Equipment &amp; Methods:</b> Deltabase 520		



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Borehole No  
**BH08**

Sheet 1 of 2

**Project Name:** Fassaroe Historic Landfills  
**Project No.:** P15180  
**Co-ords:** 722753E - 718130N  
**Hole Type:** RO

**Client:** RPS Consulting Engineers  
**Dates:** 09/02/2016  
**Level:** 98.80 mOD  
**Scale:** 1:50

Well / Backfill	Water Strikes	Samples & In Situ Testing			Casing / Flush	Level (m AOD)	Depth (m)	Stratum Description	Legend
		Depth (m)	Type	Results					
							Open hole drilling. Driller described sandy, clayey GRAVEL		
					95.90	2.90	Open hole drilling. Driller described sandy GRAVEL		
					92.80	6.00	Open hole drilling. Driller described SAND		
					92.50	6.30	Open hole drilling. Driller described sandy GRAVEL		
					89.80	9.00			

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Water	Depth (m)	Type	Results	Casing	Level	Depth	Chiselling:	Remarks	
Struck	13.50m	Rose to	0.00m	-	-	-	Depths (m) to	Time (hhmm)	Tool
		After							
		Sealed							
		Comment							

**Remarks:** Borehole complete at 13.50m bgl. 50mm dia. standpipe installed response zone 3.5m - 13.5m.

**Shift Data:** Groundwater  
 - 09/02/2016 9.00m End of shift  
 - 10/02/2016 13.50m End of shift

**Equipment & Methods:** Deltabase520





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Borehole No  
**BH08**

Sheet 2 of 2

<b>Project Name:</b> assaroe Historic Landfills	<b>Project No.:</b> P15180	<b>Co-ords:</b> 722753E - 718130N	<b>Hole Type:</b> RO
<b>Client:</b> RPS Consulting Engineers	<b>Dates:</b> 09/02/2016	<b>Level:</b> 98.80 mOD	<b>Scale:</b> 1:50

Well / Backfill	Water Strikes	Samples & In Situ Testing			Casing / Flush	Level (m AOD)	Depth (m)	Stratum Description	Legend
		Depth (m)	Type	Results					
							Open hole drilling. Driller described sandy GRAVEL		
					13.50	85.30	13.50		
							End of Borehole at 13.50 m		

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Water	Depth (m)	Type	Results	Casing	Level	Depth				
<b>Groundwater:</b>	<b>Hole Information:</b>	<b>Chiselling:</b>								
Struck	Rose to	After	Sealed	Comment	Hole Depth	Hole Diameter	Casing Diameter	Depths (m)	Time (hhmm)	Tool
13.50m	0.00m	-	-		13.50m	150	131mm	to		
<b>Remarks:</b> Borehole complete at 13.50m bgl. 50mm dia. standpipe installed response zone 3.5m - 13.5m.					<b>Shift Data:</b>					
					Groundwater	Shift (dd/mm/yyyy)	Casing depth	Remarks		
					-	09/02/2016	9.00m	End of shift		
					-	10/02/2016	13.50m	End of shift		
<b>Equipment &amp; Methods:</b> Deltabase520										



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Borehole No

**BH09**

Sheet 1 of 2

**Project Name:** Fassaroe Historic Landfills  
**Project No.:** P15180  
**Co-ords:** 722746E - 718179N  
**Hole Type:** RO

**Client:** RPS Consulting Engineers  
**Dates:** 09/02/2016  
**Level:** 97.97 mOD  
**Scale:** 1:50

Well / Backfill	Water Strikes	Samples & In Situ Testing			Casing / Flush	Level (m AOD)	Depth (m)	Stratum Description	Legend
		Depth (m)	Type	Results					
							Open hole drilling. Driller described sandy, clayey GRAVEL	1	
					94.27	3.70	Open hole drilling. Driller described gravelly SAND	2	
					91.97	6.00	Open hole drilling. Driller described sandy GRAVEL	3	
								4	
								5	
								6	
								7	
								8	

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Water	Depth (m)	Type	Results	Casing	Level	Depth	Chiselling:	Time (hhmm)	Tool
Struck	6.00m	Rose to	After	Sealed	Comment	Hole Information:	Depths (m)		
						Hole Depth	to		
						12.00m			
						150			
						131mm			

**Remarks:** Borehole complete at 12.0m bgl. 50mm dia. standpipe installed response zone 2m - 12m.  
**Shift Data:** Groundwater - Shift (dd/mm/yyyy) 09/02/2016 Casing depth 12.00m Remarks End of shift

**Equipment & Methods:** Deltabase 520