

**Site Investigation Photograph 106**

**Date:** 06/02/23

**Description:** R0318 showing the Forest Marble Formation.




**Site Investigation Photograph 107**

**Date:** 03/02/23

**Description:** R0319 showing the River Terrace Deposits.



<p><b>Site Investigation Photograph 108</b></p>	
<p><b>Date:</b> 03/02/23</p>	
	
<p><b>Description:</b> R0319 showing the Cornbrash Limestone Formation.</p>	

<p><b>Site Investigation Photograph 109</b></p>	
<p><b>Date:</b> 03/02/23</p>	
	
<p><b>Description:</b> R0319 showing the Cornbrash Limestone Formation over the Forest Marble Formation.</p>	

<p><b>Site Investigation Photograph 110</b></p>	
<p><b>Date:</b> 31/01/23</p>	
<p><b>Description:</b> R0320 showing the River Terrace Deposits.</p>	

<p><b>Site Investigation Photograph 111</b></p>	
<p><b>Date:</b> 31/01/23</p>	
<p><b>Description:</b> R0320 showing the River Terrace Deposits over the Cornbrash Limestone Formation.</p>	

**Site Investigation Photograph 112**

**Date:** 31/01/23

**Description:** R0320 showing the Cornbrash Limestone Formation.



**Site Investigation Photograph 113**

**Date:** 30/01/23

**Description:** R0321 showing the River Terrace Deposits.



**Site Investigation Photograph 114**

**Date:** 30/01/23

**Description:** R0321 showing the River Terrace Deposits over the Cornbrash Limestone Formation.



**Site Investigation Photograph 115**

**Date:** 31/01/23

**Description:** R0321 showing the Forest Marble Formation.



**Site Investigation Photograph 116**

**Date:** 31/01/23

**Description:** R0321 showing the Forest Marble Formation.



<p><b>Site Investigation Photograph 117</b></p>
<p><b>Date:</b> 31/01/23</p>
<p><b>Description:</b> Spoil heap from TP301</p>



<p><b>Site Investigation Photograph 118</b></p>
<p><b>Date:</b> 31/01/23</p>
<p><b>Description:</b> TP301 excavation at the surface. Terminated at 2.70m bgl.</p>



Site Investigation Photograph 133
Date: 31/01/23
Description: Spoil heap from TP302



Site Investigation Photograph 134
Date: 31/01/23
Description: TP302 excavation at the surface. Terminated at 1.70m bgl.





<p><b>Site Investigation Photograph 119</b></p>
<p><b>Date:</b> 31/01/23</p>
<p><b>Description:</b> TP306 excavation at the surface. Terminated at 1.60m bgl due to ingress of groundwater.</p>



<p><b>Site Investigation Photograph 120</b></p>
<p><b>Date:</b> 02/02/23</p>
<p><b>Description:</b> TP306 excavation at the surface. Terminated at 1.60m bgl due to ingress of groundwater.</p>



<p><b>Site Investigation Photograph 121</b></p>	
<p><b>Date:</b> 06/02/23</p>	
<p><b>Description:</b> Spoil heap from TP308</p>	

<p><b>Site Investigation Photograph 122</b></p>	
<p><b>Date:</b> 06/02/23</p>	
<p><b>Description:</b> TP308 excavation at the surface. Terminated at 2.50m bgl due to ingress of groundwater.</p>	

<p><b>Site Investigation Photograph 123</b></p>
<p><b>Date:</b> 06/02/23</p>
<p><b>Description:</b> Spoil heap from TP309</p>



<p><b>Site Investigation Photograph 124</b></p>
<p><b>Date:</b> 06/02/23</p>
<p><b>Description:</b> TP309 excavation at the surface. Terminated at 2.20m bgl due to ingress of groundwater.</p>



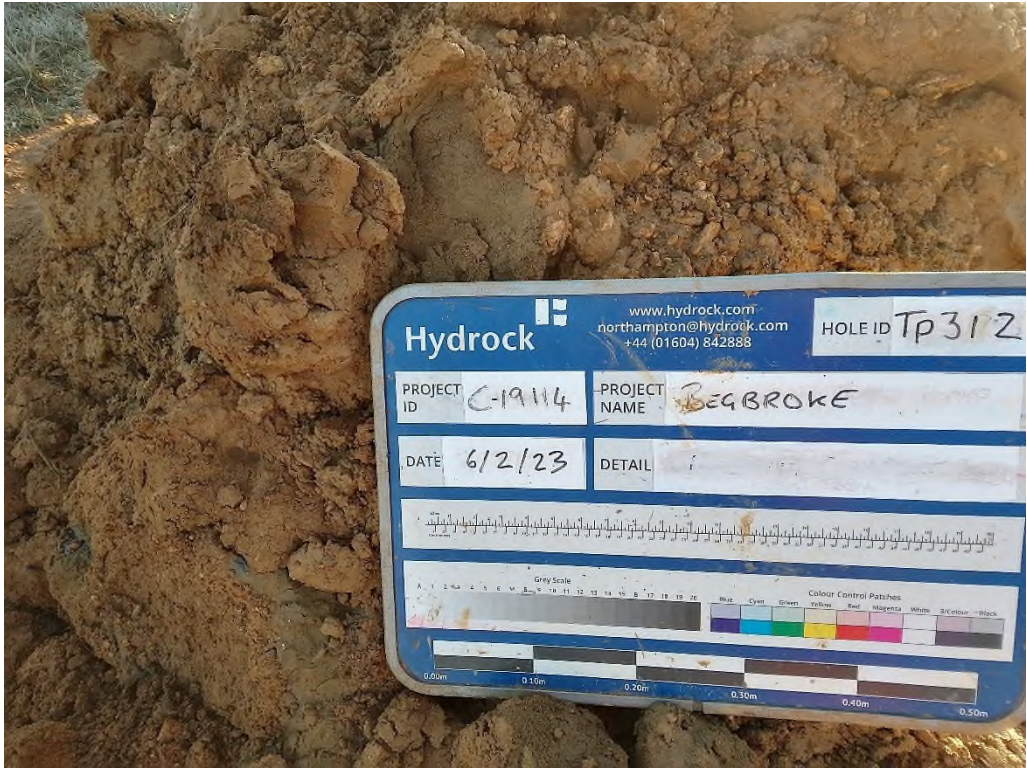
<p><b>Site Investigation Photograph 125</b></p>
<p><b>Date:</b> 06/02/23</p>
<p><b>Description:</b> Spoil heap from TP311</p>



<p><b>Site Investigation Photograph 126</b></p>
<p><b>Date:</b> 06/02/23</p>
<p><b>Description:</b> TP311 excavation at the surface. Terminated at 2.60m bgl due to ingress of groundwater.</p>



<p><b>Site Investigation Photograph 127</b></p>
<p><b>Date:</b> 06/02/23</p>
<p><b>Description:</b> Spoil heap from TP312</p>



<p><b>Site Investigation Photograph 128</b></p>
<p><b>Date:</b> 06/02/23</p>
<p><b>Description:</b> TP312 excavation at the surface. Terminated at 2.70m bgl due to ingress of groundwater.</p>



<b>Site Investigation Photograph 129</b>
<b>Date:</b> 02/02/23
<b>Description:</b> Spoil heap from TP313



<b>Site Investigation Photograph 130</b>
<b>Date:</b> 02/02/23
<b>Description:</b> TP313 excavation at the surface. Terminated at 2.40m bgl due to ingress of groundwater.



<p><b>Site Investigation Photograph 135</b></p>	
<p><b>Date:</b> 06/02/23</p>	
<p><b>Description:</b> HP305 dug to 0.30m bgl for environmental testing purposes.</p>	

<p><b>Site Investigation Photograph 136</b></p>	
<p><b>Date:</b> 06/02/23</p>	
<p><b>Description:</b> HP305 dug to 0.30m bgl for environmental testing purposes.</p>	

<p><b>Site Investigation Photograph 137</b></p>
<p><b>Date:</b> 06/02/23</p>
<p><b>Description:</b> HP312 dug to 0.30m bgl for environmental testing purposes.</p>



<p><b>Site Investigation Photograph 138</b></p>
<p><b>Date:</b> 06/02/23</p>
<p><b>Description:</b> HP312 dug to 0.30m bgl for environmental testing purposes.</p>





<p><b>Site Investigation Photograph 139</b></p>
<p><b>Date:</b> 07/02/23</p>
<p><b>Description:</b> HP310 dug to 0.30m bgl for environmental testing purposes.</p>



<p><b>Site Investigation Photograph 140</b></p>
<p><b>Date:</b> 07/02/23</p>
<p><b>Description:</b> HP310 dug to 0.30m bgl for environmental testing purposes.</p>



<p><b>Site Investigation Photograph 141</b></p>
<p><b>Date:</b> 07/02/23</p>
<p><b>Description:</b> HP331 dug to 0.30m bgl for environmental testing purposes.</p>



<p><b>Site Investigation Photograph 142</b></p>
<p><b>Date:</b> 07/02/23</p>
<p><b>Description:</b> HP331 dug to 0.30m bgl for environmental testing purposes.</p>



<p><b>Site Investigation Photograph 143</b></p>
<p><b>Date:</b> 08/02/23</p>
<p><b>Description:</b> HP340 dug to 0.30m bgl for environmental testing purposes.</p>



<p><b>Site Investigation Photograph 144</b></p>
<p><b>Date:</b> 08/02/23</p>
<p><b>Description:</b> HP340 dug to 0.30m bgl for environmental testing purposes.</p>



<p><b>Site Investigation Photograph 145</b></p>
<p><b>Date:</b> 08/02/23</p>
<p><b>Description:</b> HP345 dug to 0.30m bgl for environmental testing purposes.</p>



<p><b>Site Investigation Photograph 146</b></p>
<p><b>Date:</b> 08/02/23</p>
<p><b>Description:</b> HP345 dug to 0.30m bgl for environmental testing purposes.</p>



<p><b>Site Investigation Photograph 147</b></p>
<p><b>Date:</b> 08/02/23</p>
<p><b>Description:</b> HP350 dug to 0.30m bgl for environmental testing purposes.</p>



<p><b>Site Investigation Photograph 148</b></p>
<p><b>Date:</b> 08/02/23</p>
<p><b>Description:</b> HP350 dug to 0.30m bgl for environmental testing purposes.</p>



# Appendix D Geotechnical Test Results and Geotechnical Plots

## *Geotechnical Laboratory Test Results*



4041



**Nathan Thompson**  
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Holdenby Road  
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NN6 8LD

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Herts,  
WD18 8YS

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## **Analytical Report Number : 23-19674**

<b>Project / Site name:</b>	Begbroke	<b>Samples received on:</b>	24/02/2023
<b>Your job number:</b>	19114	<b>Samples instructed on/ Analysis started on:</b>	24/02/2023
<b>Your order number:</b>	PO24302	<b>Analysis completed by:</b>	03/03/2023
<b>Report Issue Number:</b>	1	<b>Report issued on:</b>	03/03/2023
<b>Samples Analysed:</b>	5 water samples		

**Signed:** \_\_\_\_\_

Izabela Wójcik  
Reporting Specialist  
**For & on behalf of i2 Analytical Ltd.**

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41-711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :	soils	- 4 weeks from reporting
	leachates	- 2 weeks from reporting
	waters	- 2 weeks from reporting
	asbestos	- 6 months from reporting

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Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement. Application of uncertainty of measurement would provide a range within which the true result lies. An estimate of measurement uncertainty can be provided on request.





Analytical Report Number: 23-19674  
 Project / Site name: Begbroke

Your Order No: PO24302

Lab Sample Number	2597758		2597759		2597760		2597761		2597762	
Sample Reference	RO301		RO302		RO303		RO304		RO305	
Sample Number	None Supplied		None Supplied		None Supplied		None Supplied		None Supplied	
Depth (m)	None Supplied		None Supplied		None Supplied		None Supplied		None Supplied	
Date Sampled	24/02/2023		24/02/2023		24/02/2023		24/02/2023		24/02/2023	
Time Taken	None Supplied		None Supplied		None Supplied		None Supplied		None Supplied	
Analytical Parameter (Water Analysis)	Units	Limit of detection	Accreditation Status							

**General Inorganics**

	pH Units	N/A	ISO 17025	8	7.4	7.3	7.5	7.5
pH (L005B)								
Sulphate as SO4	mg/l	0.045	ISO 17025	1730	49.5	60.8	449	163
Chloride	mg/l	0.15	ISO 17025	490	31	24	110	81
Ammoniacal Nitrogen as NH4	mg/l	0.015	ISO 17025	0.34	< 0.015	< 0.015	0.14	1.3
Nitrate as N	mg/l	0.01	ISO 17025	0.43	8.17	5.26	0.68	0.4
Nitrate as NO3	mg/l	0.05	ISO 17025	1.89	36.2	23.3	3.02	1.79

**Heavy Metals / Metalloids**

	mg/l	0.005	ISO 17025	13	3.2	3.5	8.5	7.7
Magnesium (dissolved)								

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected



4041



Analytical Report Number : 23-19674

Project / Site name: Begbroke

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Metals in water by ICP-OES (dissolved)	Determination of metals in water by acidification followed by ICP-OES. Accredited Matrices SW, GW, PW, PrW.(Al, Cu,Fe,Zn).	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L039-PL	W	ISO 17025
Nitrate in water	Determination of nitrate by reaction with sodium salicylate and colorimetry. Accredited matrices SW, GW, PW	In-house method based on Examination of Water and Wastewater & Polish Standard Method PN-82/C-04579.08,	L078-PL	W	ISO 17025
Sulphate in water	Determination of sulphate in water after filtration by acidification followed by ICP-OES. Accredited Matrices SW, GW, PW.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L039-PL	W	ISO 17025
Ammonium as NH4 in water	Determination of Ammonium/Ammonia/ Ammoniacal Nitrogen by the colorimetric salicylate/nitroprusside method. Accredited matrices SW, GW, PW.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L082-PL	W	ISO 17025
Nitrate as N in water	Determination of nitrate by reaction with sodium salicylate and colorimetry. Accredited matrices SW, GW, PW.	In-house method based on Examination of Water and Wastewater & Polish Standard Method PN-82/C-04579.08,	L078-PL	W	ISO 17025
pH at 20oC in water (automated)	Determination of pH in water by electrometric measurement. Accredited matrices: SW PW GW	In house method.	L099-PL	W	ISO 17025
Chloride in water	Determination of Chloride (diissolved) colorimetrically by discrete analyser.	In house based on MEWAM Method ISBN 0117516260. Accredited matrices: SW, PW, GW.	L082-PL	W	ISO 17025

For method numbers ending in 'UK or A' analysis have been carried out in our laboratory in the United Kingdom (WATFORD).

For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).

For method numbers ending in 'PL or B' analysis have been carried out in our laboratory in Poland.

Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture

correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC

Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by

the client. The instructed on date indicates the date on which this information was provided to the laboratory.



# TEST CERTIFICATE

**DETERMINATION OF LIQUID AND PLASTIC LIMITS**  
Tested in Accordance with: BS 1377-2:1990: Clause 4.4 and 5

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

4041

Client: Hydrock Consultants Ltd  
Client Address: 2-4 Hawthorne Park, Holdenby Road,  
Spratton, Northamptonshire,  
NN6 8LD  
Contact: Nathan Thompson  
Site Address: Begbroke

Client Reference: 19114  
Job Number: 22-86688  
Date Sampled: 09/09/2022  
Date Received: 26/09/2022  
Date Tested: 04/10/2022  
Sampled By: Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

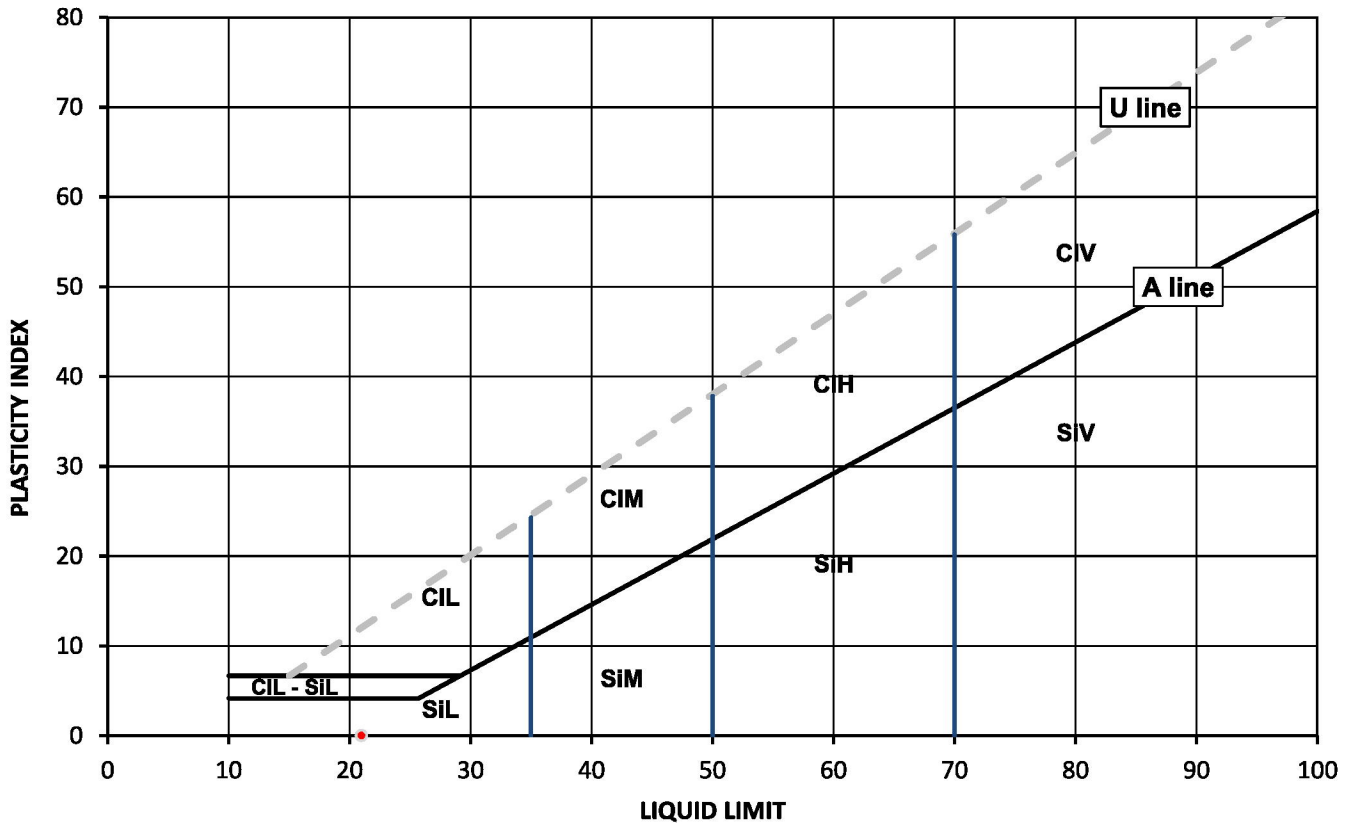
### Test Results:

Laboratory Reference: 2439956  
Hole No.: WS217  
Sample Reference: Not Given  
Sample Description: Yellowish brown clayey gravelly SAND

Depth Top [m]: 2.70  
Depth Base [m]: Not Given  
Sample Type: D

Sample Preparation: Tested after washing to remove >425um

As Received Water Content [ W ] %	Liquid Limit [ WL ] %	Plastic Limit [ Wp ] %	Plasticity Index [ Ip ] %	% Passing 425µm BS Test Sieve
4.4	21	NP	NP	38



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

Cl	Clay	Plasticity	L	Low	Liquid Limit	below 35
Si	Silt		M	Medium		35 to 50
			H	High		50 to 70
			V	Very high		exceeding 70
			O	Organic		append to classification for organic material ( eg CIHO )

Note: Water Content by BS 1377-2: 1990: Clause 3.2

Remarks: NP - non plastic

Signed:

Monika Siewior  
Reporting Specialist  
for and on behalf of i2 Analytical Ltd

Opinions and interpretations expressed herein are outside of the scope of the UKAS Accreditation. This report may not be reproduced other than in full without the prior written approval of the issuing laboratory. The results included within the report relate only to the sample(s) submitted for testing.



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**DETERMINATION OF LIQUID AND PLASTIC LIMITS**  
Tested in Accordance with: BS 1377-2:1990: Clause 4.3 and 5

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

4041

Client: Hydrock Consultants Ltd  
Client Address: 2-4 Hawthorne Park, Holdenby Road,  
Spratton, Northamptonshire,  
NN6 8LD  
Contact: Nathan Thompson  
Site Address: Begbroke

Client Reference: 19114  
Job Number: 22-86688  
Date Sampled: 09/09/2022  
Date Received: 26/09/2022  
Date Tested: 05/10/2022  
Sampled By: Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

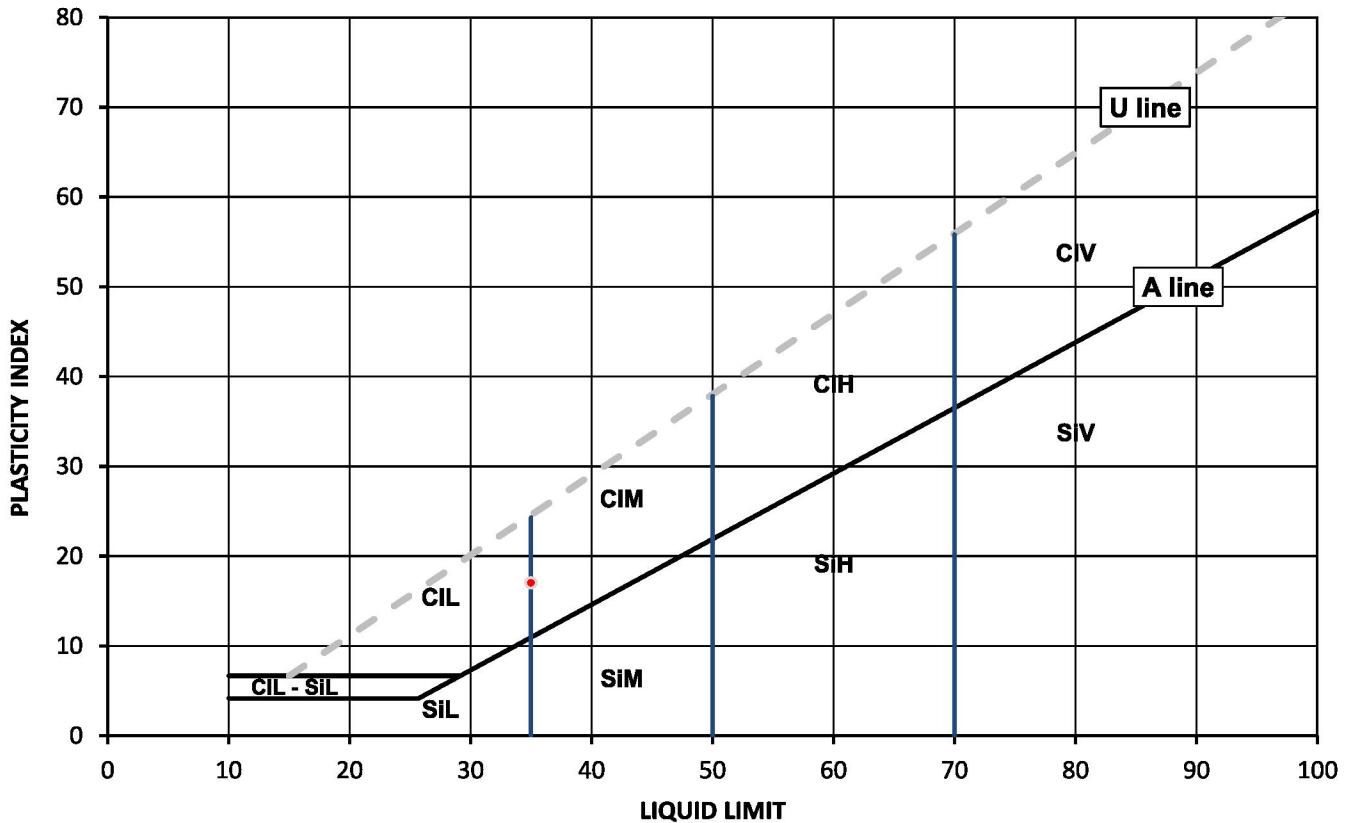
### Test Results:

Laboratory Reference: 2439917  
Hole No.: TP201  
Sample Reference: Not Given  
Sample Description: Orangish brown silty clayey very gravelly SAND

Depth Top [m]: 0.70  
Depth Base [m]: Not Given  
Sample Type: D

Sample Preparation: Tested after washing to remove >425um

As Received Water Content [ W ] %	Liquid Limit [ WL ] %	Plastic Limit [ Wp ] %	Plasticity Index [ Ip ] %	% Passing 425µm BS Test Sieve
9.8	35	18	17	40



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

Cl	Clay	Plasticity	Liquid Limit
Si	Silt	L	Low
		M	Medium
		H	High
		V	Very high
		O	Organic
			append to classification for organic material ( eg CIHO )
			below 35
			35 to 50
			50 to 70
			exceeding 70

Note: Water Content by BS 1377-2: 1990: Clause 3.2

Remarks:

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NN6 8LD  
Contact: Nathan Thompson  
Site Address: Begbroke

Client Reference: 19114  
Job Number: 22-86688  
Date Sampled: 09/09/2022  
Date Received: 26/09/2022  
Date Tested: 05/10/2022  
Sampled By: Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

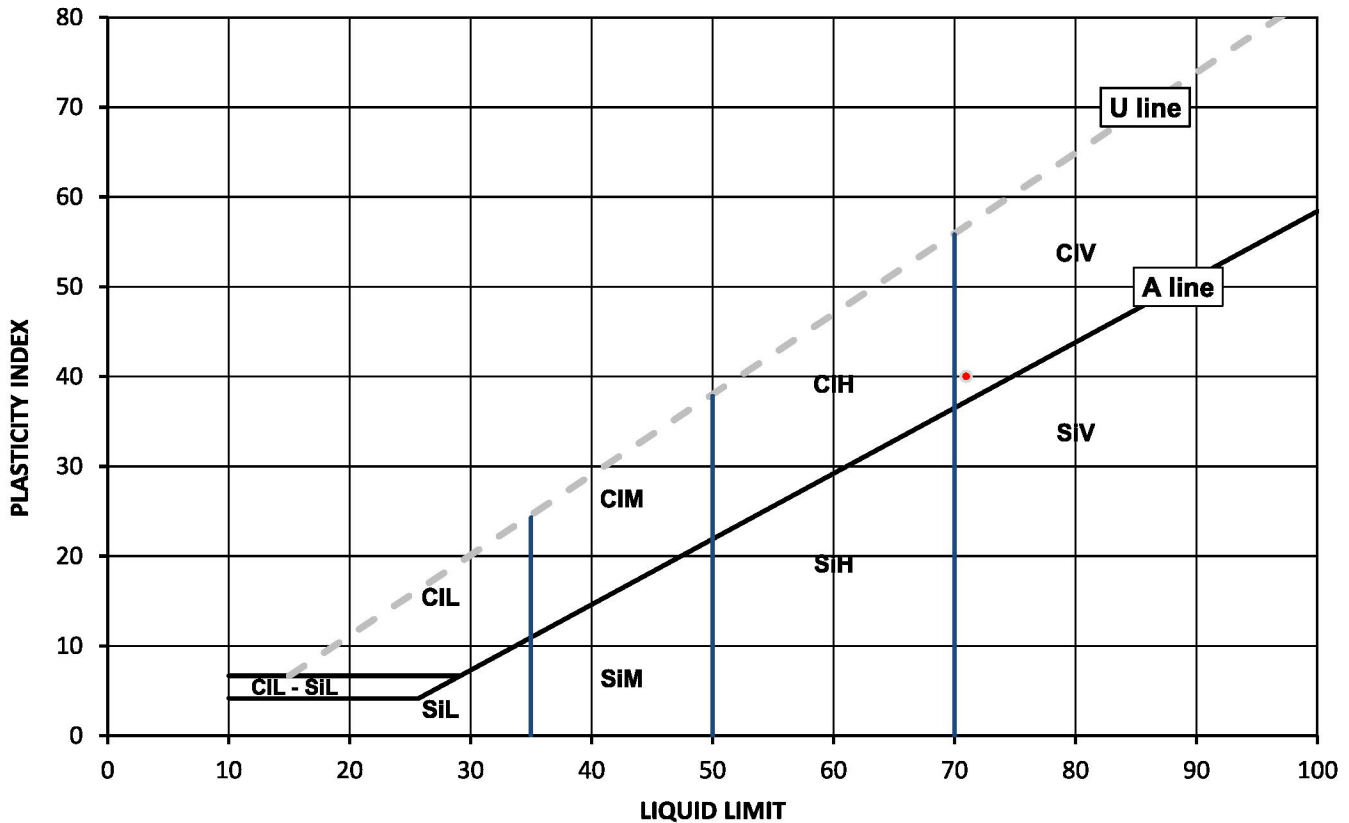
### Test Results:

Laboratory Reference: 2439918  
Hole No.: TP203  
Sample Reference: Not Given  
Sample Description: Brownish grey slightly sandy very silty CLAY

Depth Top [m]: 1.30  
Depth Base [m]: Not Given  
Sample Type: D

Sample Preparation: Tested in natural condition

As Received Water Content [ W ] %	Liquid Limit [ WL ] %	Plastic Limit [ Wp ] %	Plasticity Index [ Ip ] %	% Passing 425µm BS Test Sieve
27	71	31	40	100



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

CI	Clay	Plasticity	Liquid Limit
Si	Silt	L	Low
		M	Medium
		H	High
		V	Very high
		O	Organic
			append to classification for organic material ( eg CIHO )

Note: Water Content by BS 1377-2: 1990: Clause 3.2

Remarks:

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Contact: Nathan Thompson  
Site Address: Begbroke

Client Reference: 19114  
Job Number: 22-86688  
Date Sampled: 09/09/2022  
Date Received: 26/09/2022  
Date Tested: 05/10/2022  
Sampled By: Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

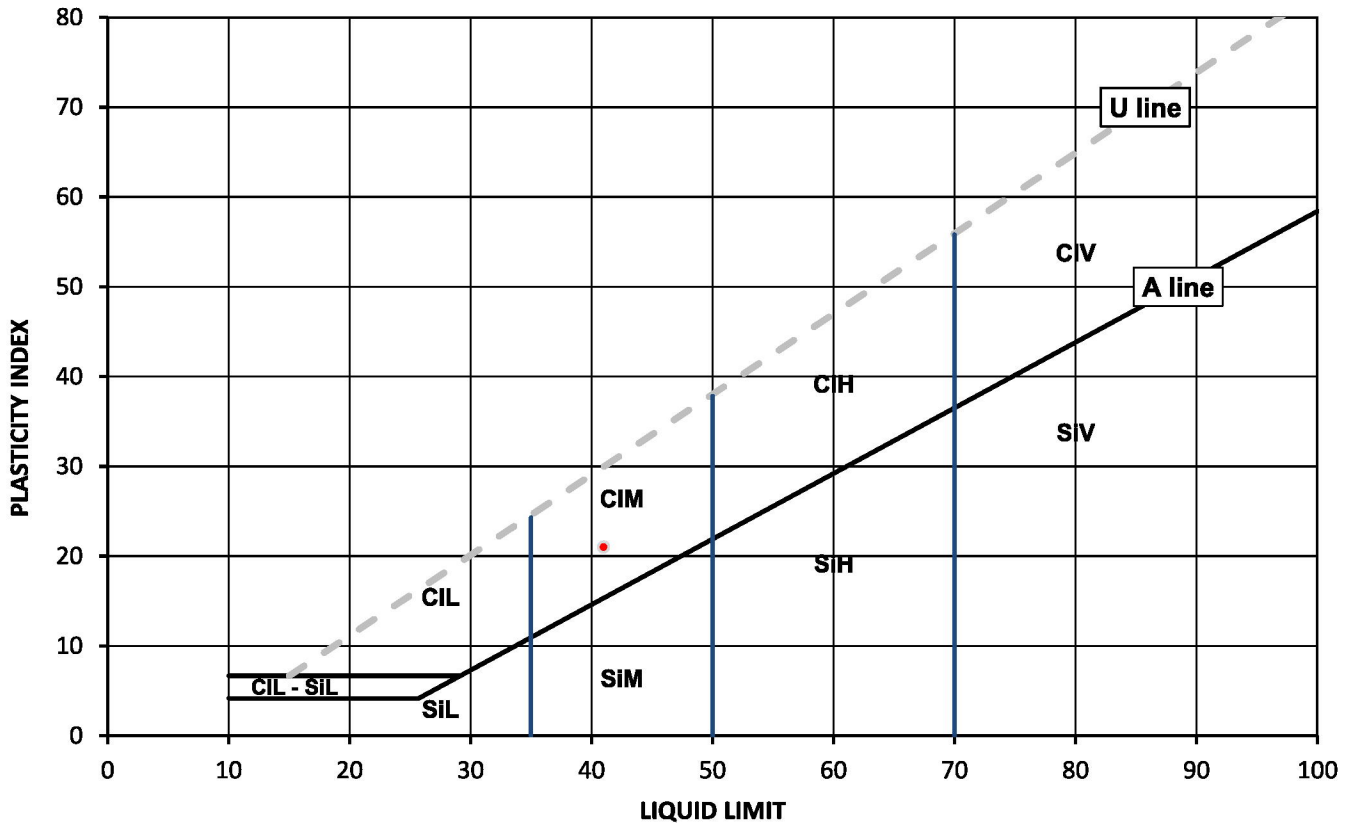
## Test Results:

Laboratory Reference: 2439919  
Hole No.: TP208  
Sample Reference: Not Given  
Sample Description: Orangish brown silty clayey very gravelly SAND

Depth Top [m]: 0.60  
Depth Base [m]: 0.70  
Sample Type: D

Sample Preparation: Tested after washing to remove >425um

As Received Water Content [ W ] %	Liquid Limit [ WL ] %	Plastic Limit [ Wp ] %	Plasticity Index [ Ip ] %	% Passing 425µm BS Test Sieve
6.7	41	20	21	38



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

CI	Clay	Plasticity	Liquid Limit
Si	Silt	L	Low
		M	Medium
		H	High
		V	Very high
		O	Organic
			below 35
			35 to 50
			50 to 70
			exceeding 70
			append to classification for organic material ( eg CIHO )

Note: Water Content by BS 1377-2: 1990: Clause 3.2

Remarks:

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NN6 8LD  
Contact: Nathan Thompson  
Site Address: Begbroke

Client Reference: 19114  
Job Number: 22-86688  
Date Sampled: 09/09/2022  
Date Received: 26/09/2022  
Date Tested: 06/10/2022  
Sampled By: Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

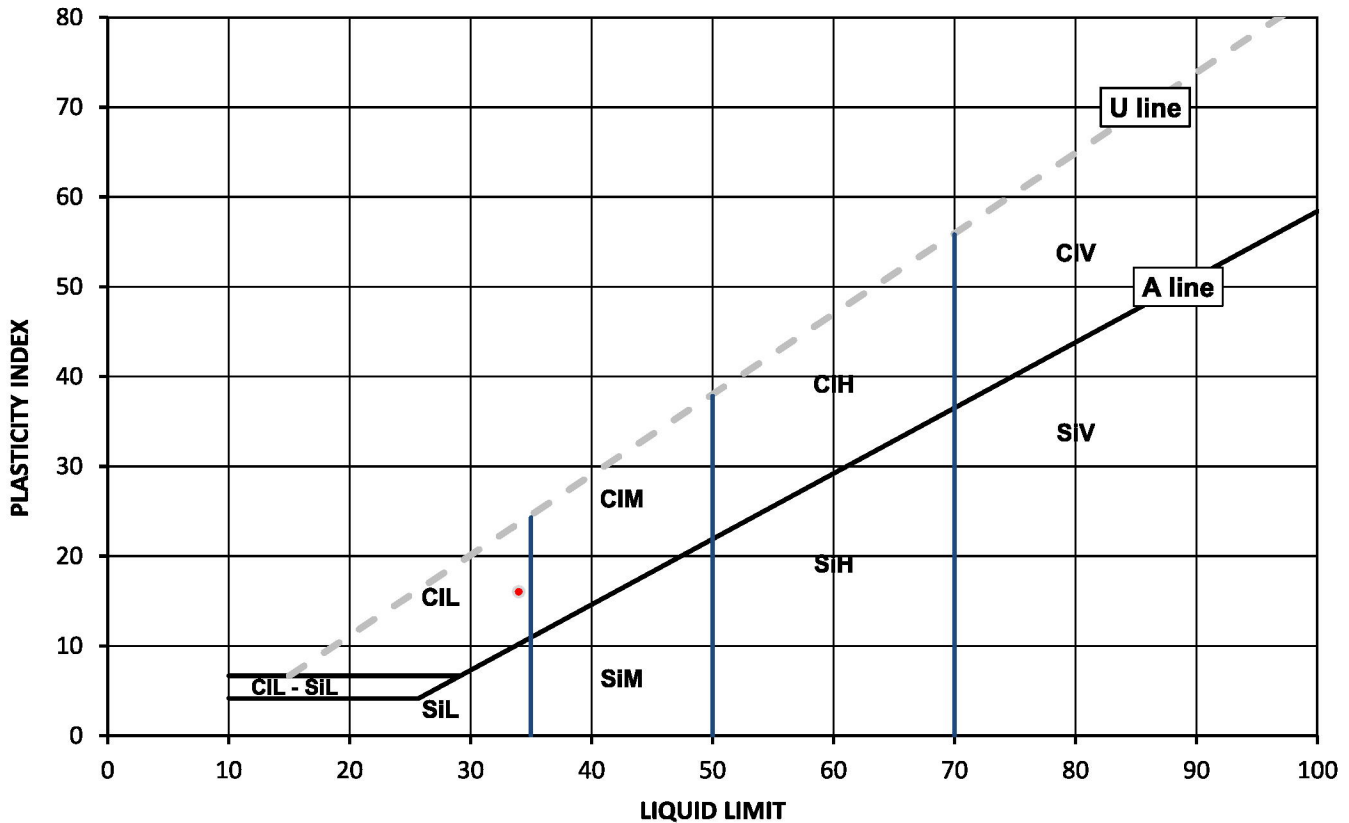
## Test Results:

Laboratory Reference: 2439920  
Hole No.: TP218  
Sample Reference: Not Given  
Sample Description: Yellowish brown sandy silty clayey GRAVEL

Depth Top [m]: 0.70  
Depth Base [m]: Not Given  
Sample Type: D

Sample Preparation: Tested after washing to remove >425um

As Received Water Content [ W ] %	Liquid Limit [ WL ] %	Plastic Limit [ Wp ] %	Plasticity Index [ Ip ] %	% Passing 425µm BS Test Sieve
13	34	18	16	42



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

	Plasticity	Liquid Limit
Cl	Clay	below 35
Si	Silt	35 to 50
	L	Low
	M	Medium
	H	High
	V	Very high
	O	Organic
		append to classification for organic material ( eg CIHO )

Note: Water Content by BS 1377-2: 1990: Clause 3.2

Remarks:

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NN6 8LD  
Contact: Nathan Thompson  
Site Address: Begbroke

Client Reference: 19114  
Job Number: 22-86688  
Date Sampled: 09/09/2022  
Date Received: 26/09/2022  
Date Tested: 05/10/2022  
Sampled By: Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

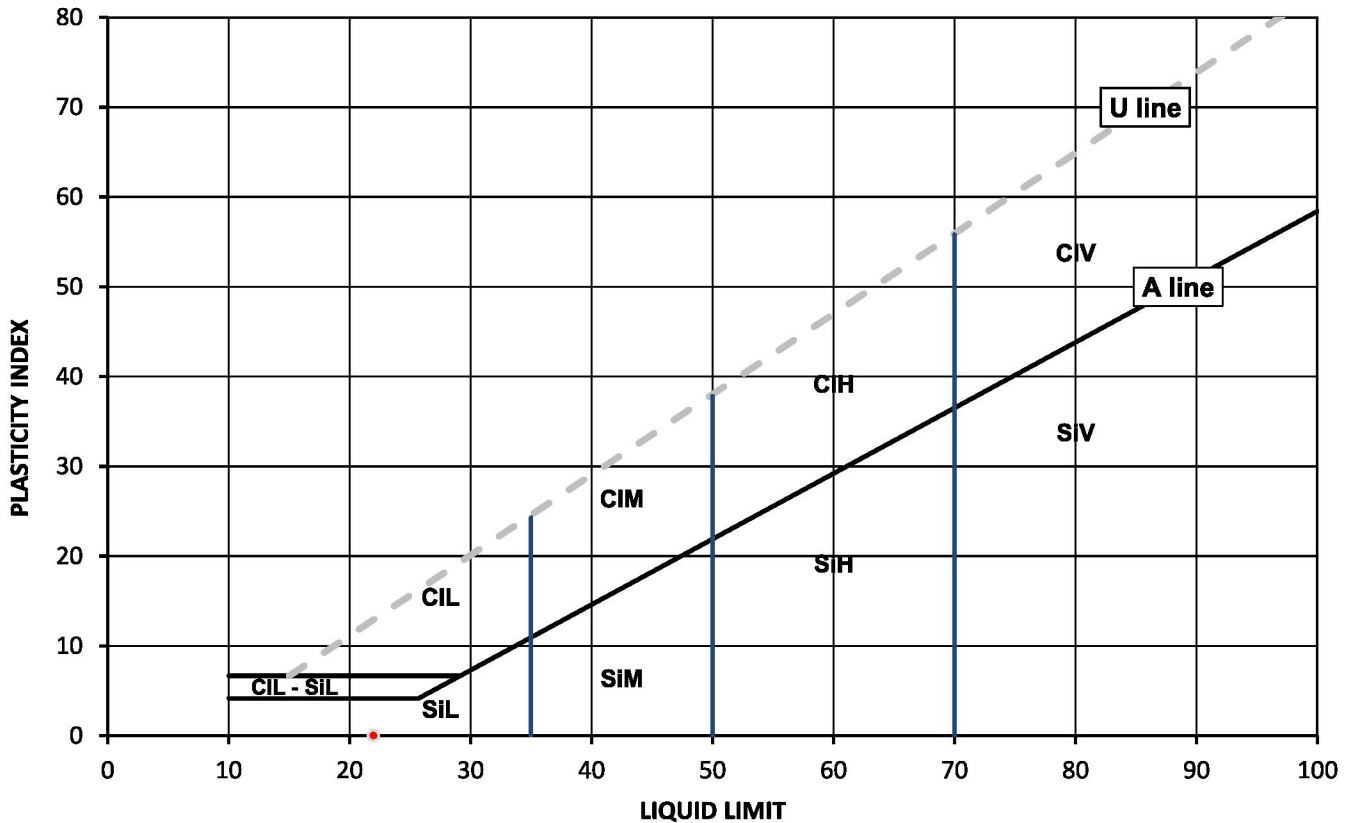
## Test Results:

Laboratory Reference: 2439921  
Hole No.: TP221  
Sample Reference: Not Given  
Sample Description: Orangish brown clayey very gravelly SAND

Depth Top [m]: 2.20  
Depth Base [m]: 2.30  
Sample Type: D

Sample Preparation: Tested after washing to remove >425um

As Received Water Content [ W ] %	Liquid Limit [ WL ] %	Plastic Limit [ Wp ] %	Plasticity Index [ Ip ] %	% Passing 425µm BS Test Sieve
8.3	22	NP	NP	46



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

CI	Clay	Plasticity	Liquid Limit
Si	Silt	L	Low
		M	Medium
		H	High
		V	Very high
		O	Organic
			append to classification for organic material ( eg CIHO )
			below 35
			35 to 50
			50 to 70
			exceeding 70

Note: Water Content by BS 1377-2: 1990: Clause 3.2

Remarks: NP - non plastic

Signed:

Monika Siewior  
Reporting Specialist  
for and on behalf of i2 Analytical Ltd

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# TEST CERTIFICATE

**DETERMINATION OF LIQUID AND PLASTIC LIMITS**  
Tested in Accordance with: BS 1377-2:1990: Clause 4.3 and 5

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

4041

Client: Hydrock Consultants Ltd  
Client Address: 2-4 Hawthorne Park, Holdenby Road,  
Spratton, Northamptonshire,  
NN6 8LD  
Contact: Nathan Thompson  
Site Address: Begbroke

Client Reference: 19114  
Job Number: 22-86688  
Date Sampled: 09/09/2022  
Date Received: 26/09/2022  
Date Tested: 05/10/2022  
Sampled By: Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

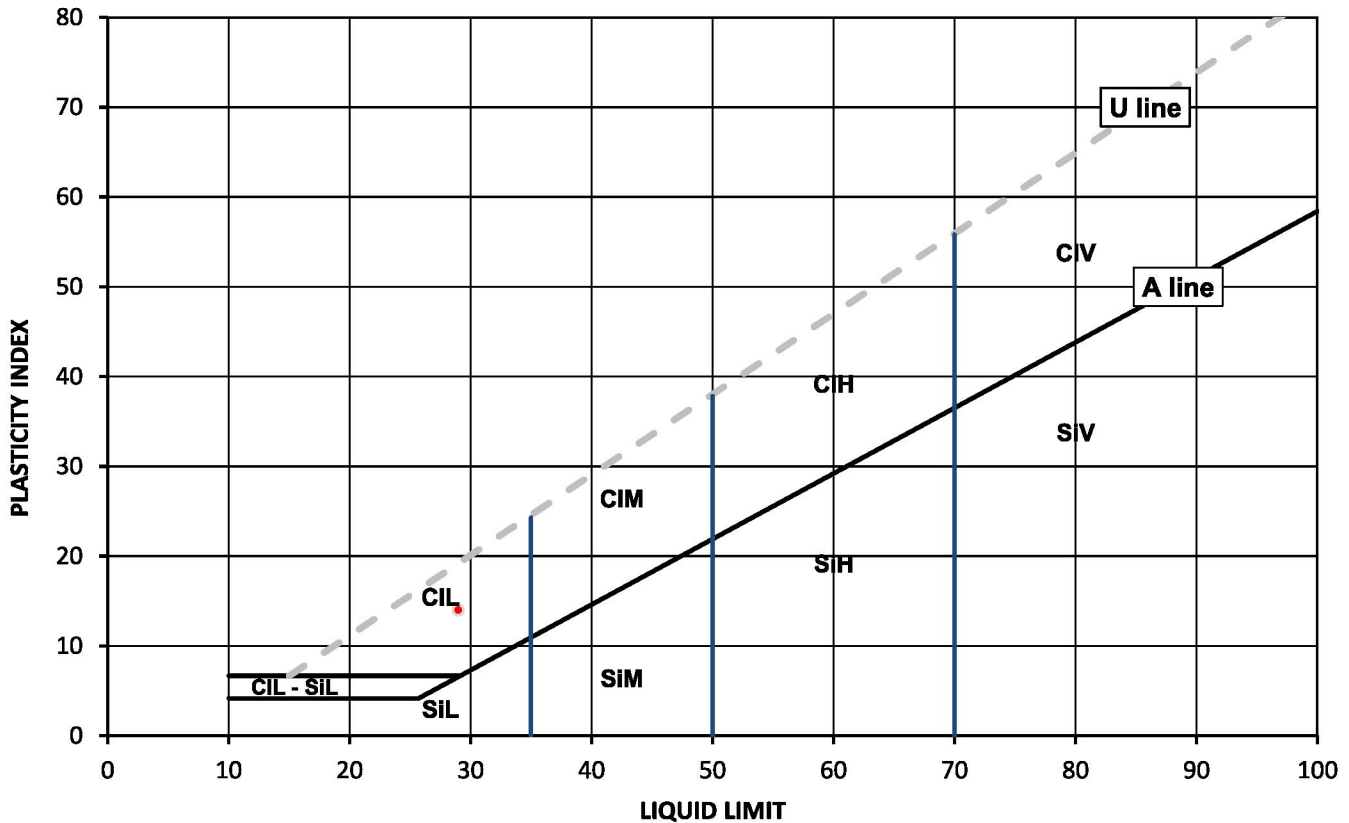
### Test Results:

Laboratory Reference: 2439922  
Hole No.: BH202  
Sample Reference: Not Given  
Sample Description: Yellowish brown slightly gravelly very sandy CLAY

Depth Top [m]: 2.00  
Depth Base [m]: 2.45  
Sample Type: D

Sample Preparation: Tested after washing to remove >425um

As Received Water Content [ W ] %	Liquid Limit [ WL ] %	Plastic Limit [ Wp ] %	Plasticity Index [ Ip ] %	% Passing 425µm BS Test Sieve
15	29	15	14	85



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

CI	Clay	Plasticity	Liquid Limit
Si	Silt	L	below 35
		M	35 to 50
		H	50 to 70
		V	exceeding 70
		O	append to classification for organic material ( eg CIHO )

Note: Water Content by BS 1377-2: 1990: Clause 3.2

Remarks:

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Tested in Accordance with: BS 1377-2:1990: Clause 4.3 and 5

i2 Analytical Ltd  
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Environmental Science

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Contact: Nathan Thompson  
Site Address: Begbroke

Client Reference: 19114  
Job Number: 22-86688  
Date Sampled: 09/09/2022  
Date Received: 26/09/2022  
Date Tested: 04/10/2022  
Sampled By: Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

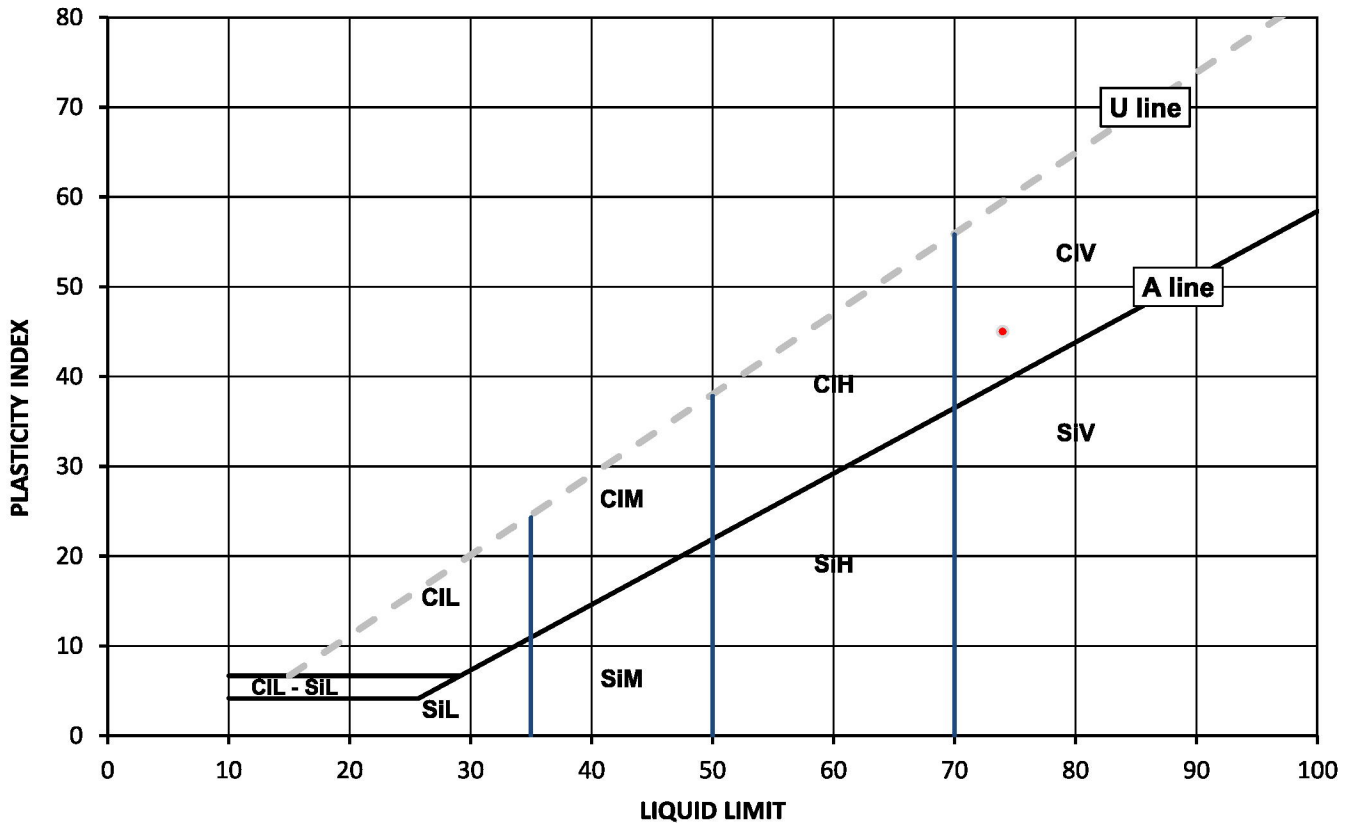
### Test Results:

Laboratory Reference: 2439925  
Hole No.: TP201  
Sample Reference: Not Given  
Sample Description: Grey slightly gravelly CLAY

Depth Top [m]: 2.60  
Depth Base [m]: Not Given  
Sample Type: D

Sample Preparation: Tested after >425um removed by hand

As Received Water Content [ W ] %	Liquid Limit [ WL ] %	Plastic Limit [ Wp ] %	Plasticity Index [ Ip ] %	% Passing 425µm BS Test Sieve
29	74	29	45	99



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

CI	Clay	Plasticity	L	Low	Liquid Limit	below 35
Si	Silt		M	Medium		35 to 50
			H	High		50 to 70
			V	Very high		exceeding 70
			O	Organic		append to classification for organic material ( eg CIHO )

Note: Water Content by BS 1377-2: 1990: Clause 3.2

Remarks:

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Environmental Science

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Contact: Nathan Thompson  
Site Address: Begbroke

Client Reference: 19114  
Job Number: 22-86688  
Date Sampled: 09/09/2022  
Date Received: 26/09/2022  
Date Tested: 04/10/2022  
Sampled By: Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

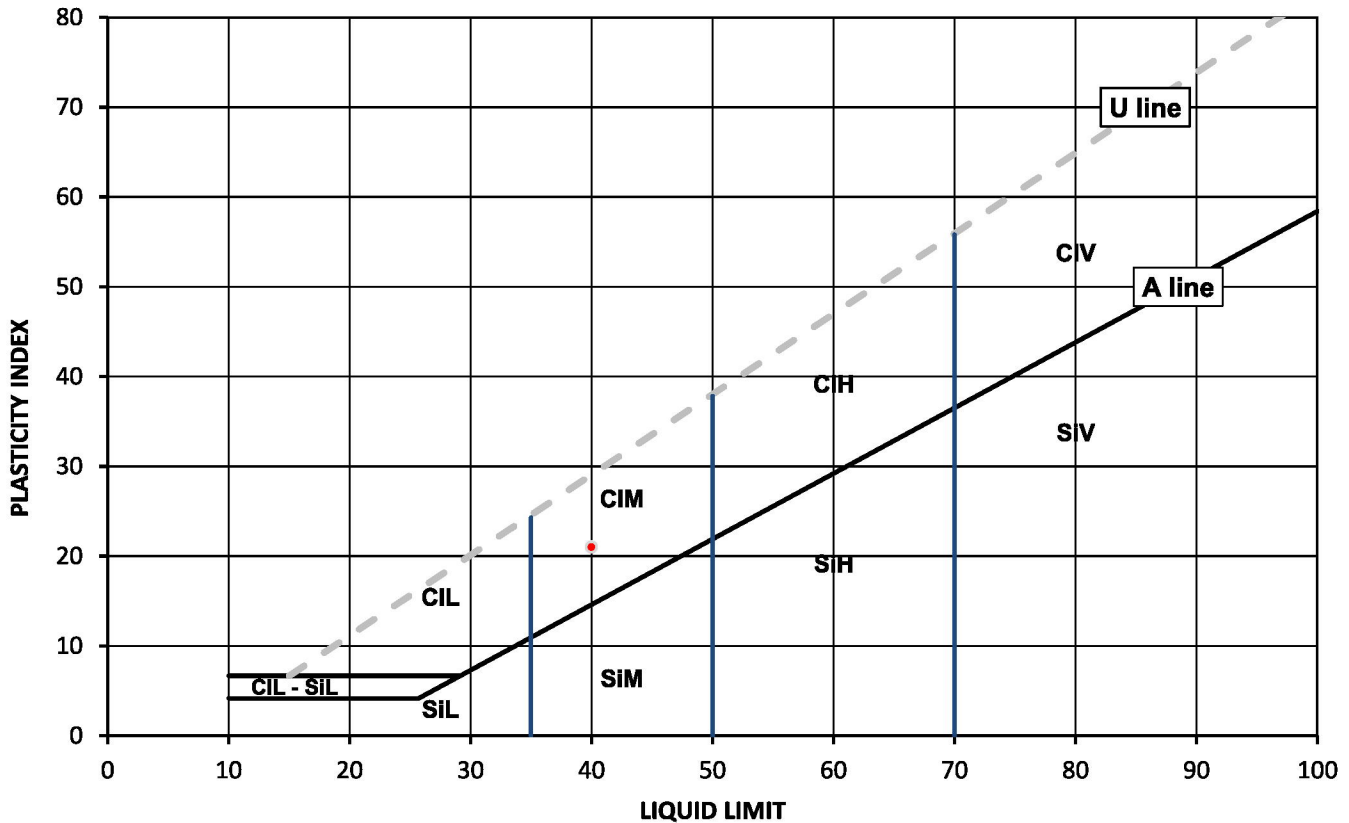
### Test Results:

Laboratory Reference: 2439927  
Hole No.: TP206  
Sample Reference: Not Given  
Sample Description: Brown gravelly sandy CLAY

Depth Top [m]: 0.40  
Depth Base [m]: Not Given  
Sample Type: D

Sample Preparation: Tested after washing to remove >425um

As Received Water Content [ W ] %	Liquid Limit [ WL ] %	Plastic Limit [ Wp ] %	Plasticity Index [ Ip ] %	% Passing 425µm BS Test Sieve
12	40	19	21	49



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

Cl	Clay	Plasticity	L	Low	Liquid Limit	below 35
Si	Silt		M	Medium		35 to 50
			H	High		50 to 70
			V	Very high		exceeding 70
			O	Organic		append to classification for organic material ( eg CIHO )

Note: Water Content by BS 1377-2: 1990: Clause 3.2

Remarks:

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Contact: Nathan Thompson  
Site Address: Begbroke

Client Reference: 19114  
Job Number: 22-86688  
Date Sampled: 09/09/2022  
Date Received: 26/09/2022  
Date Tested: 04/10/2022  
Sampled By: Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

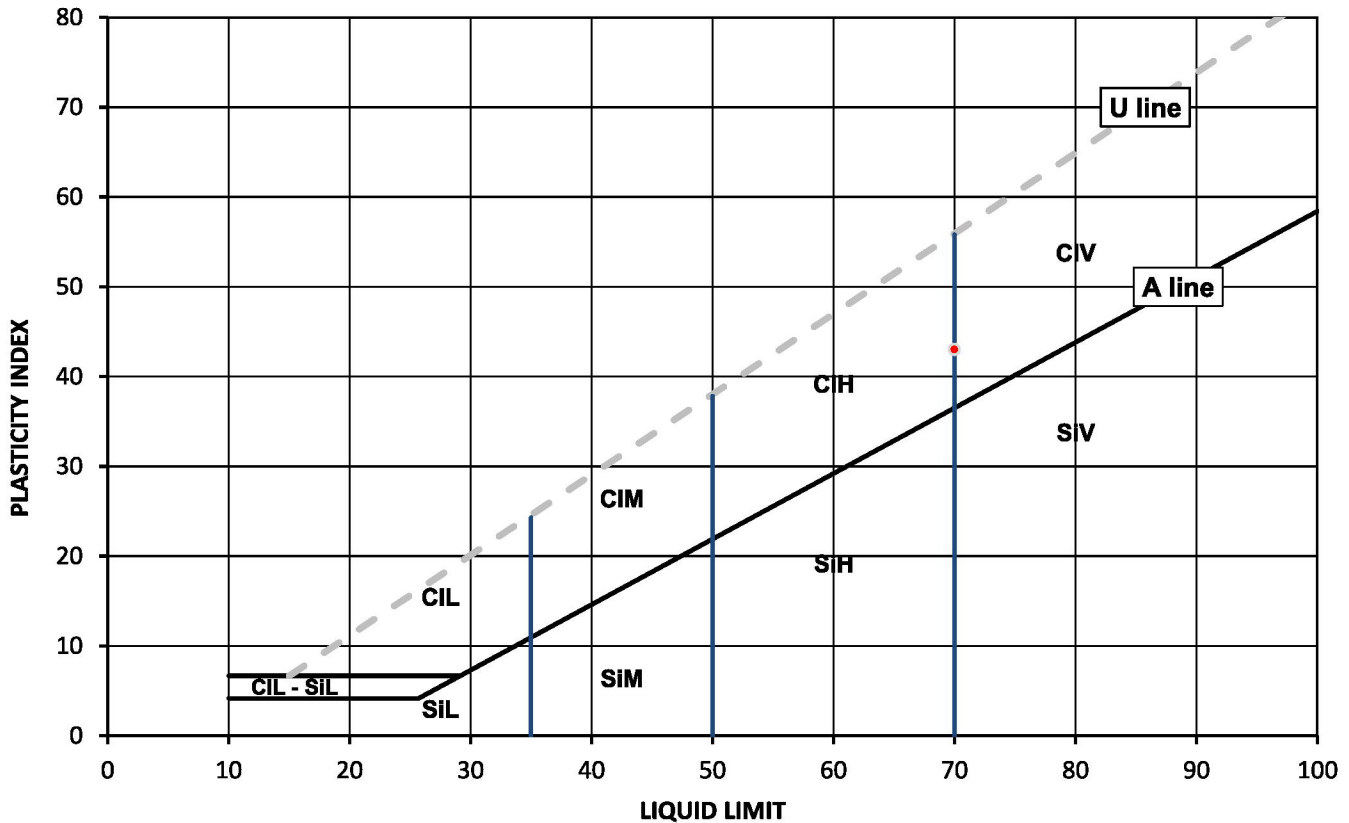
### Test Results:

Laboratory Reference: 2439930  
Hole No.: TP209  
Sample Reference: Not Given  
Sample Description: Brown slightly gravelly CLAY

Depth Top [m]: 3.40  
Depth Base [m]: Not Given  
Sample Type: D

Sample Preparation: Tested after >425um removed by hand

As Received Water Content [ W ] %	Liquid Limit [ WL ] %	Plastic Limit [ Wp ] %	Plasticity Index [ Ip ] %	% Passing 425µm BS Test Sieve
27	70	27	43	99



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

CI	Clay	Plasticity	Liquid Limit
Si	Silt	L	Low
		M	Medium
		H	High
		V	Very high
		O	Organic
			below 35
			35 to 50
			50 to 70
			exceeding 70
			append to classification for organic material ( eg CIHO )

Note: Water Content by BS 1377-2: 1990: Clause 3.2

Remarks:

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DETERMINATION OF LIQUID AND PLASTIC LIMITS  
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i2 Analytical Ltd  
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Environmental Science

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Contact: Nathan Thompson  
Site Address: Begbroke

Client Reference: 19114  
Job Number: 22-86688  
Date Sampled: 09/09/2022  
Date Received: 26/09/2022  
Date Tested: 04/10/2022  
Sampled By: Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

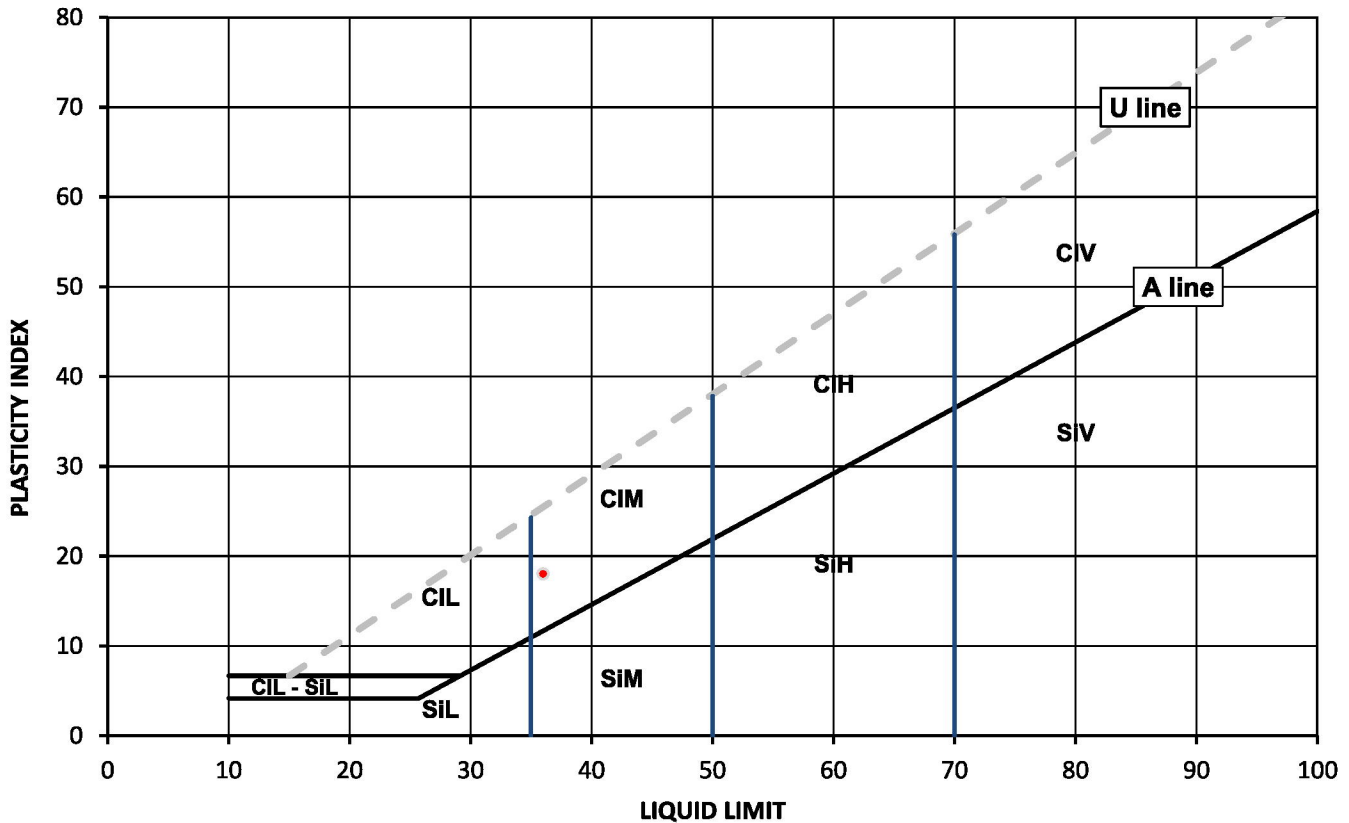
## Test Results:

Laboratory Reference: 2439931  
Hole No.: TP211  
Sample Reference: Not Given  
Sample Description: Brown gravelly sandy CLAY

Depth Top [m]: 0.60  
Depth Base [m]: Not Given  
Sample Type: D

Sample Preparation: Tested after washing to remove >425um

As Received Water Content [ W ] %	Liquid Limit [ WL ] %	Plastic Limit [ Wp ] %	Plasticity Index [ Ip ] %	% Passing 425µm BS Test Sieve
12	36	18	18	54



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

CI	Clay	Plasticity	Liquid Limit
Si	Silt	L	below 35
		M	35 to 50
		H	50 to 70
		V	exceeding 70
		O	append to classification for organic material ( eg CIHO )

Note: Water Content by BS 1377-2: 1990: Clause 3.2

Remarks:

Signed:

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i2 Analytical Ltd  
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NN6 8LD  
Contact: Nathan Thompson  
Site Address: Begbroke

Client Reference: 19114  
Job Number: 22-86688  
Date Sampled: 09/09/2022  
Date Received: 26/09/2022  
Date Tested: 04/10/2022  
Sampled By: Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

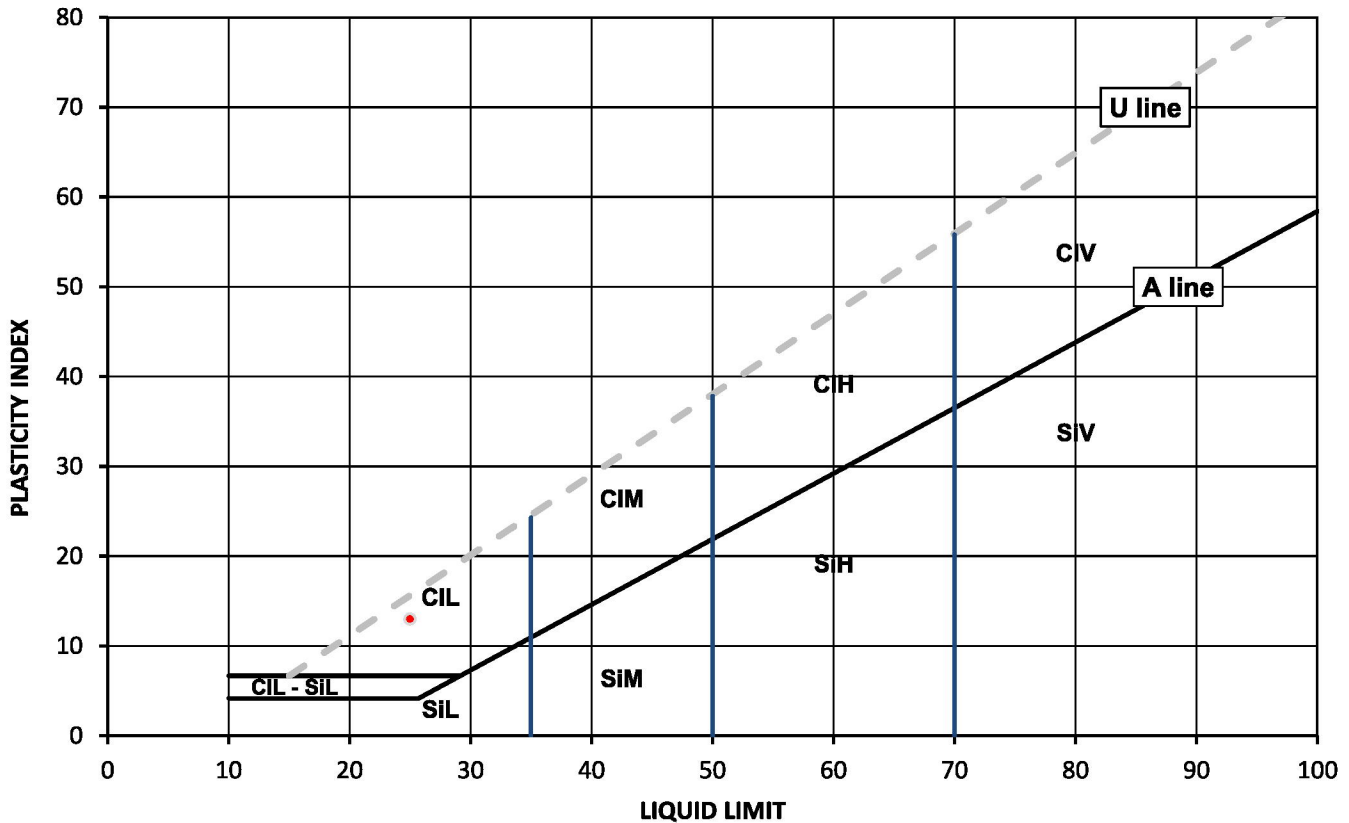
### Test Results:

Laboratory Reference: 2439935  
Hole No.: TP215  
Sample Reference: Not Given  
Sample Description: Brown slightly gravelly very sandy CLAY

Depth Top [m]: 0.80  
Depth Base [m]: Not Given  
Sample Type: D

Sample Preparation: Tested after >425um removed by hand

As Received Water Content [ W ] %	Liquid Limit [ WL ] %	Plastic Limit [ Wp ] %	Plasticity Index [ Ip ] %	% Passing 425µm BS Test Sieve
22	25	12	13	84



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

Cl	Clay	Plasticity	Liquid Limit
Si	Silt	L	below 35
		M	35 to 50
		H	50 to 70
		V	exceeding 70
		O	append to classification for organic material ( eg CIHO )

Note: Water Content by BS 1377-2: 1990: Clause 3.2

Remarks:

Signed:

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# TEST CERTIFICATE

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Tested in Accordance with: BS 1377-2:1990: Clause 4.3 and 5

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

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NN6 8LD  
Contact: Nathan Thompson  
Site Address: Begbroke

Client Reference: 19114  
Job Number: 22-86688  
Date Sampled: 09/09/2022  
Date Received: 26/09/2022  
Date Tested: 04/10/2022  
Sampled By: Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

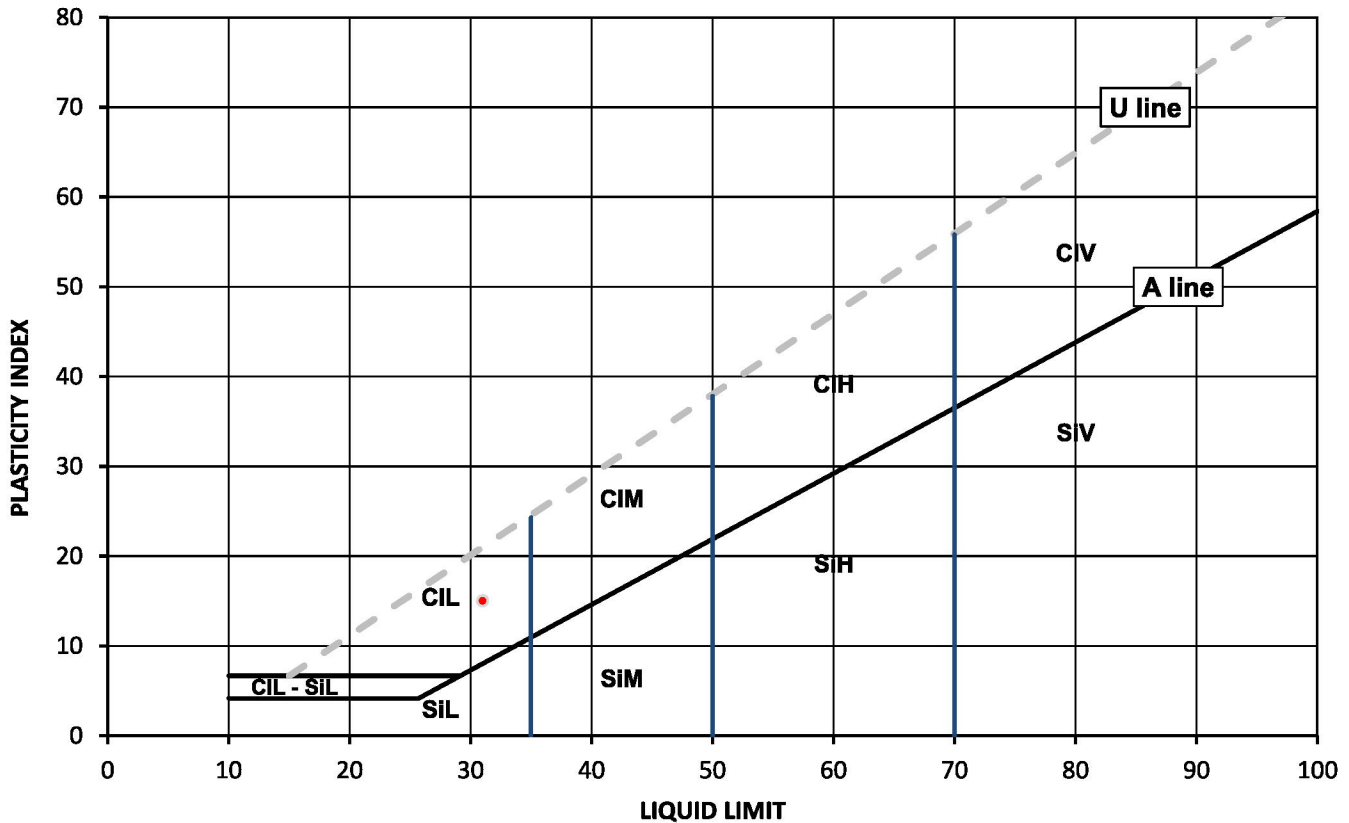
### Test Results:

Laboratory Reference: 2439936  
Hole No.: TP218  
Sample Reference: Not Given  
Sample Description: Yellowish brown slightly gravelly very sandy CLAY

Depth Top [m]: 3.20  
Depth Base [m]: Not Given  
Sample Type: D

Sample Preparation: Tested after >425um removed by hand

As Received Water Content [ W ] %	Liquid Limit [ WL ] %	Plastic Limit [ Wp ] %	Plasticity Index [ Ip ] %	% Passing 425µm BS Test Sieve
23	31	16	15	89



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

	Plasticity	Liquid Limit
Cl Clay	L Low	below 35
Si Silt	M Medium	35 to 50
	H High	50 to 70
	V Very high	exceeding 70
	O Organic	append to classification for organic material ( eg CIHO )

Note: Water Content by BS 1377-2: 1990: Clause 3.2

Remarks:

Signed:

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Date Reported: 18/10/2022

GF 236.12



# TEST CERTIFICATE

DETERMINATION OF LIQUID AND PLASTIC LIMITS  
Tested in Accordance with: BS 1377-2:1990: Clause 4.3 and 5

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

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NN6 8LD  
Contact: Nathan Thompson  
Site Address: Begbroke

Client Reference: 19114  
Job Number: 22-86688  
Date Sampled: 09/09/2022  
Date Received: 26/09/2022  
Date Tested: 04/10/2022  
Sampled By: Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

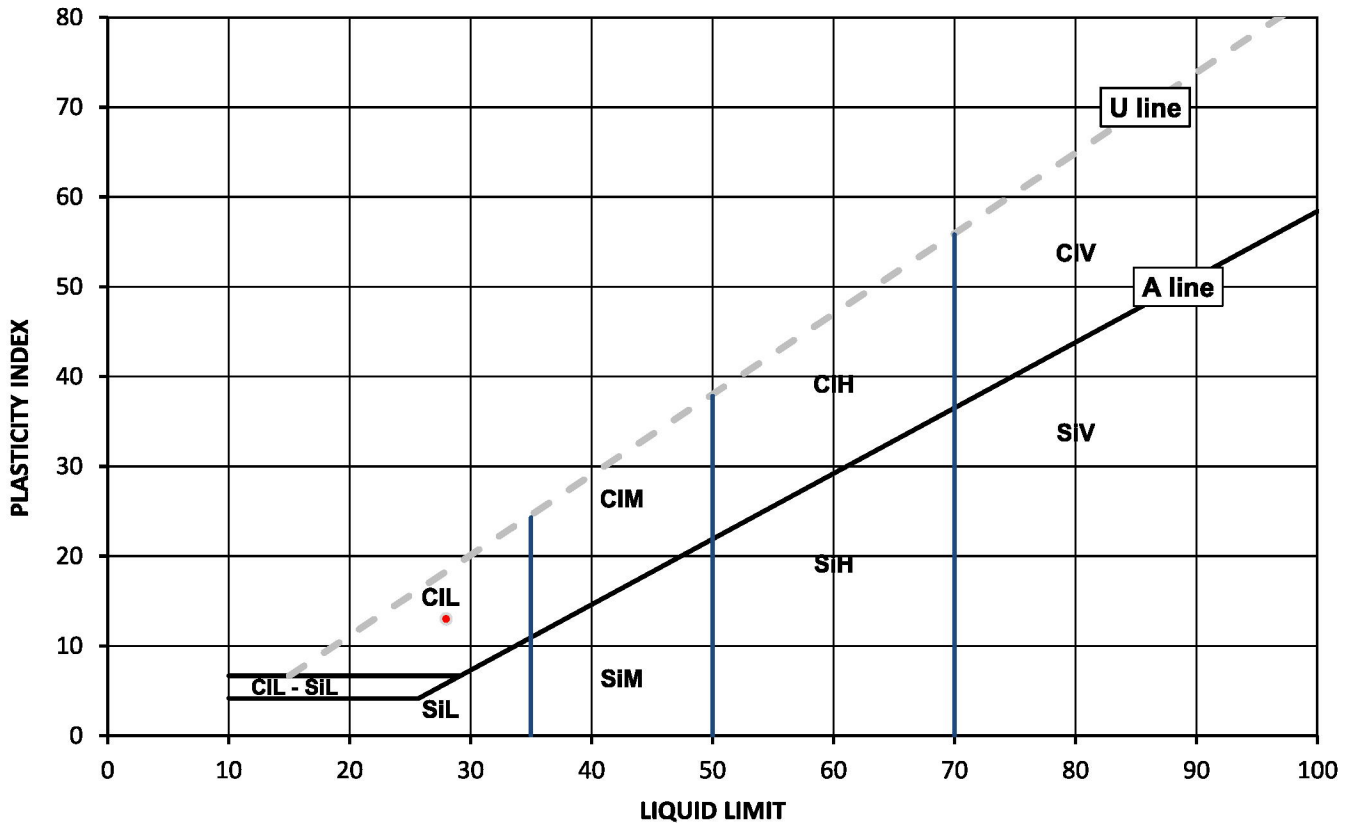
## Test Results:

Laboratory Reference: 2439937  
Hole No.: TP219  
Sample Reference: Not Given  
Sample Description: Brownish grey slightly gravelly very sandy CLAY

Depth Top [m]: 2.30  
Depth Base [m]: Not Given  
Sample Type: D

Sample Preparation: Tested after >425um removed by hand

As Received Water Content [ W ] %	Liquid Limit [ WL ] %	Plastic Limit [ Wp ] %	Plasticity Index [ Ip ] %	% Passing 425µm BS Test Sieve
14	28	15	13	99



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

CI	Clay	Plasticity	Liquid Limit
Si	Silt	L	below 35
		M	35 to 50
		H	50 to 70
		V	exceeding 70
		O	append to classification for organic material ( eg CIHO )

Note: Water Content by BS 1377-2: 1990: Clause 3.2

Remarks:

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NN6 8LD  
Contact: Nathan Thompson  
Site Address: Begbroke

Client Reference: 19114  
Job Number: 22-86688  
Date Sampled: 09/09/2022  
Date Received: 26/09/2022  
Date Tested: 06/10/2022  
Sampled By: Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

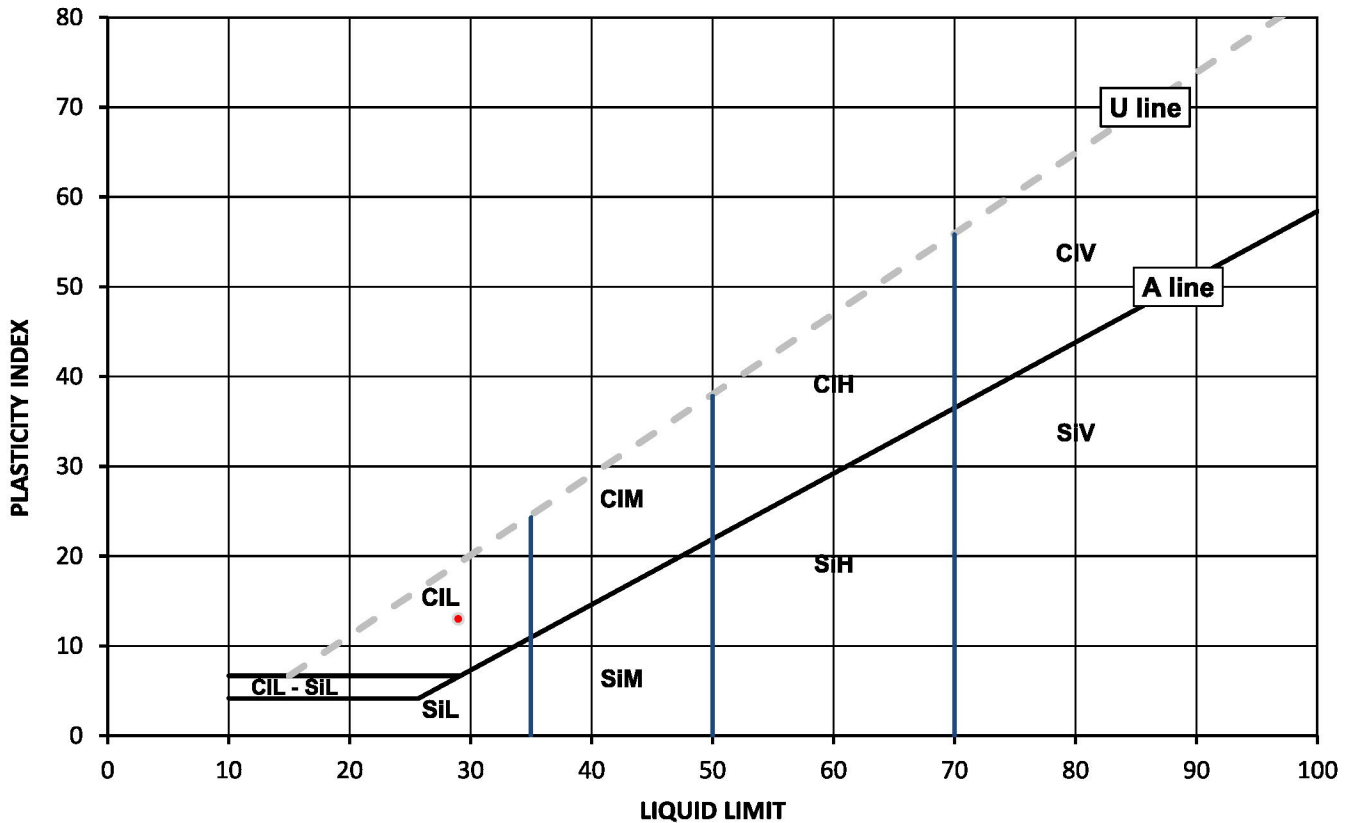
## Test Results:

Laboratory Reference: 2439938  
Hole No.: TP220  
Sample Reference: Not Given  
Sample Description: Grey mottled brown gravelly silty clayey SAND

Depth Top [m]: 2.50  
Depth Base [m]: Not Given  
Sample Type: D

Sample Preparation: Tested after >425um removed by hand

As Received Water Content [ W ] %	Liquid Limit [ WL ] %	Plastic Limit [ Wp ] %	Plasticity Index [ Ip ] %	% Passing 425µm BS Test Sieve
18	29	16	13	94



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

Cl	Clay	Plasticity	L	Low	Liquid Limit	below 35
Si	Silt		M	Medium		35 to 50
			H	High		50 to 70
			V	Very high		exceeding 70
			O	Organic		append to classification for organic material ( eg CIHO )

Note: Water Content by BS 1377-2: 1990: Clause 3.2

Remarks:

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Contact: Nathan Thompson  
Site Address: Begbroke

Client Reference: 19114  
Job Number: 22-86688  
Date Sampled: 09/09/2022  
Date Received: 26/09/2022  
Date Tested: 04/10/2022  
Sampled By: Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

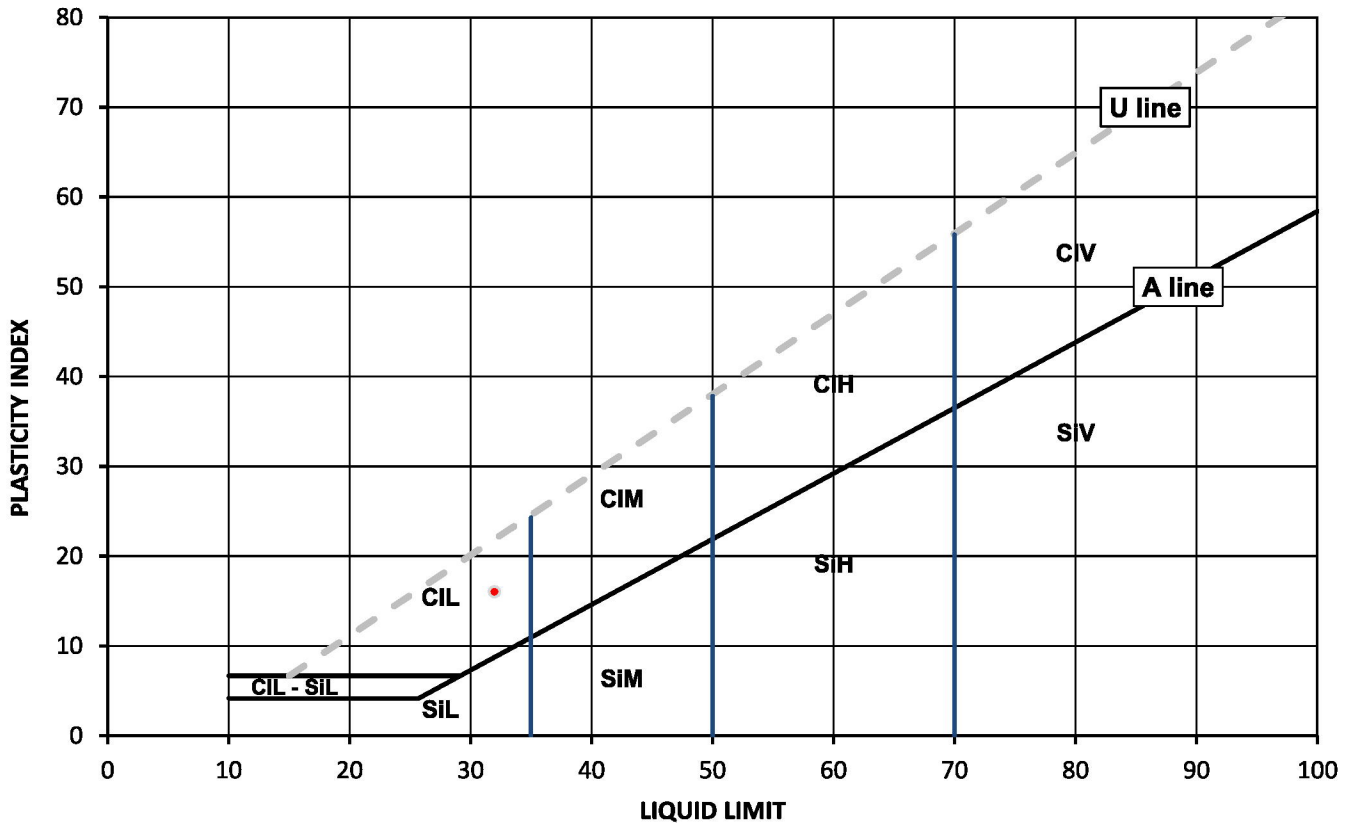
### Test Results:

Laboratory Reference: 2439942  
Hole No.: TP225  
Sample Reference: Not Given  
Sample Description: Yellowish brown gravelly very sandy CLAY

Depth Top [m]: 1.30  
Depth Base [m]: Not Given  
Sample Type: D

Sample Preparation: Tested after washing to remove >425um

As Received Water Content [ W ] %	Liquid Limit [ WL ] %	Plastic Limit [ Wp ] %	Plasticity Index [ Ip ] %	% Passing 425µm BS Test Sieve
20	32	16	16	63



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

CI	Clay	Plasticity	Liquid Limit
Si	Silt	L	Low
		M	Medium
		H	High
		V	Very high
		O	Organic
			below 35
			35 to 50
			50 to 70
			exceeding 70
			append to classification for organic material ( eg CIHO )

Note: Water Content by BS 1377-2: 1990: Clause 3.2

Remarks:

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Client Reference: 19114  
Job Number: 22-86688  
Date Sampled: 09/09/2022  
Date Received: 26/09/2022  
Date Tested: 06/10/2022  
Sampled By: Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

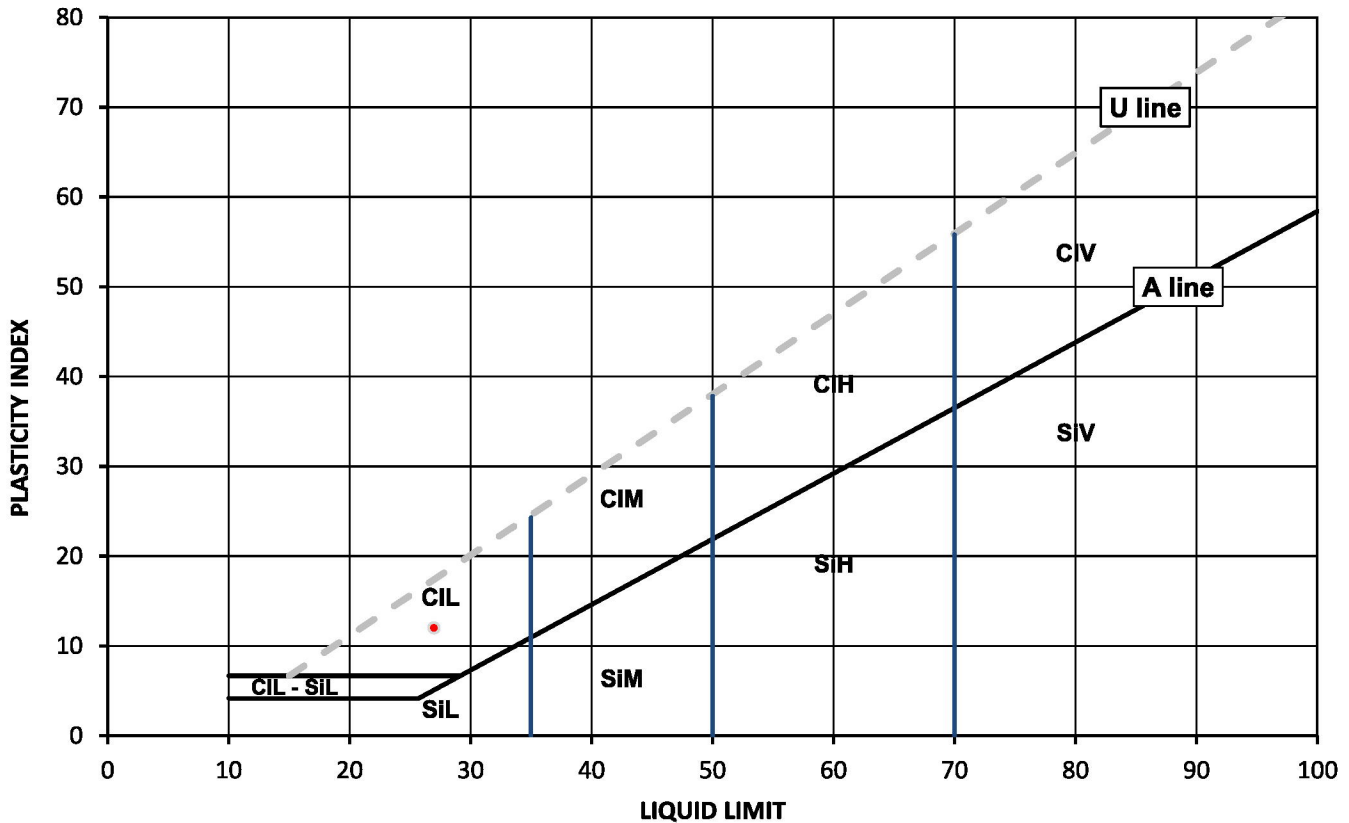
## Test Results:

Laboratory Reference: 2439945  
Hole No.: TP227  
Sample Reference: Not Given  
Sample Description: Yellowish brown clayey very gravelly SAND

Depth Top [m]: 2.20  
Depth Base [m]: Not Given  
Sample Type: D

Sample Preparation: Tested after washing to remove >425um

As Received Water Content [ W ] %	Liquid Limit [ WL ] %	Plastic Limit [ Wp ] %	Plasticity Index [ Ip ] %	% Passing 425µm BS Test Sieve
13	27	15	12	36



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

	Plasticity	Liquid Limit
Cl	Clay	below 35
Si	Silt	35 to 50
	L	Low
	M	Medium
	H	High
	V	Very high
	O	Organic
		append to classification for organic material ( eg CIHO )

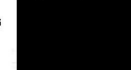
Note: Water Content by BS 1377-2: 1990: Clause 3.2

Remarks:

Signed:

Monika Siewior  
Reporting Specialist  
for and on behalf of i2 Analytical Ltd

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# TEST CERTIFICATE

**DETERMINATION OF LIQUID AND PLASTIC LIMITS**  
Tested in Accordance with: BS 1377-2:1990: Clause 4.3 and 5

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

4041

Client: Hydrock Consultants Ltd  
Client Address: 2-4 Hawthorne Park, Holdenby Road,  
Spratton, Northamptonshire,  
NN6 8LD  
Contact: Nathan Thompson  
Site Address: Begbroke

Client Reference: 19114  
Job Number: 22-86688  
Date Sampled: 09/09/2022  
Date Received: 26/09/2022  
Date Tested: 06/10/2022  
Sampled By: Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

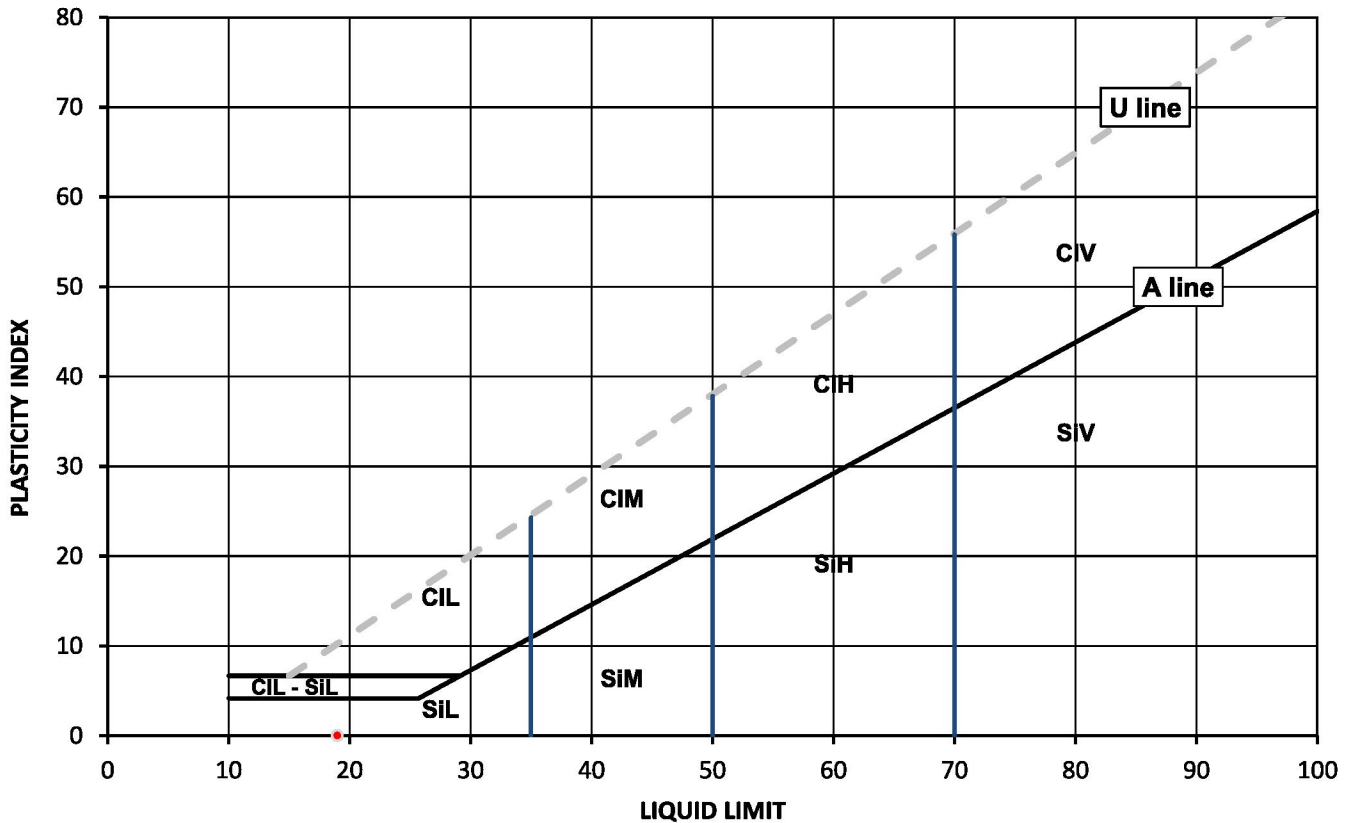
### Test Results:

Laboratory Reference: 2439946  
Hole No.: TP229  
Sample Reference: Not Given  
Sample Description: Yellowish brown slightly clayey gravelly SAND

Depth Top [m]: 1.20  
Depth Base [m]: Not Given  
Sample Type: D

Sample Preparation: Tested after washing to remove >425um

As Received Water Content [ W ] %	Liquid Limit [ WL ] %	Plastic Limit [ Wp ] %	Plasticity Index [ Ip ] %	% Passing 425µm BS Test Sieve
5.9	19	NP	NP	43



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

Cl	Clay	Plasticity	L	Low	Liquid Limit	below 35
Si	Silt		M	Medium		35 to 50
			H	High		50 to 70
			V	Very high		exceeding 70
			O	Organic		append to classification for organic material ( eg CIHO )

Note: Water Content by BS 1377-2: 1990: Clause 3.2

Remarks: NP - non plastic

Signed:



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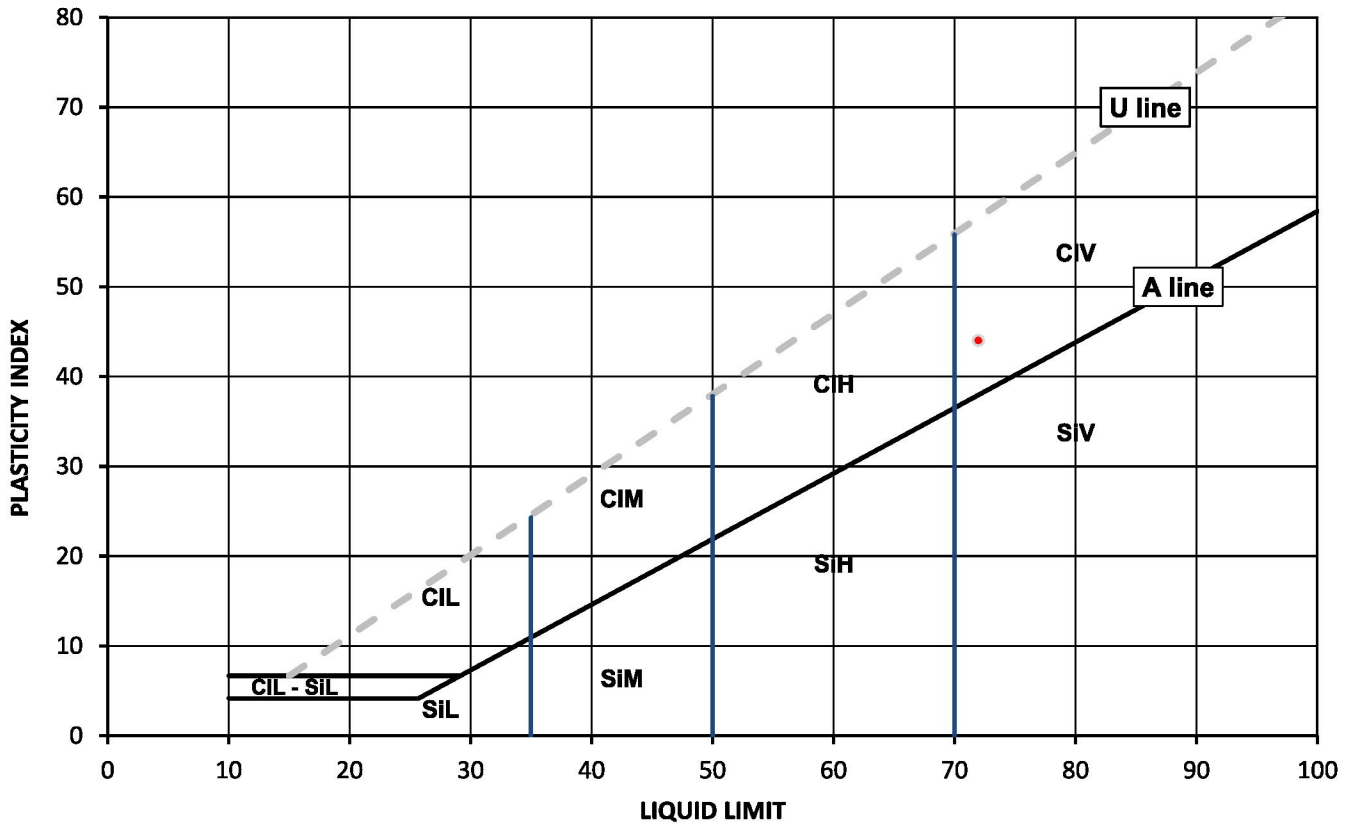
### Test Results:

Laboratory Reference: 2439948  
Hole No.: TP232  
Sample Reference: Not Given  
Sample Description: Brown CLAY

Depth Top [m]: 0.50  
Depth Base [m]: Not Given  
Sample Type: D

Sample Preparation: Tested in natural condition

As Received Water Content [ W ] %	Liquid Limit [ WL ] %	Plastic Limit [ Wp ] %	Plasticity Index [ Ip ] %	% Passing 425µm BS Test Sieve
29	72	28	44	100



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

CI	Clay	Plasticity	Liquid Limit
Si	Silt	L	below 35
		M	35 to 50
		H	50 to 70
		V	exceeding 70
		O	append to classification for organic material ( eg CIHO )

Note: Water Content by BS 1377-2: 1990: Clause 3.2

Remarks:

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 Date Tested: 06/10/2022  
 Sampled By: Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

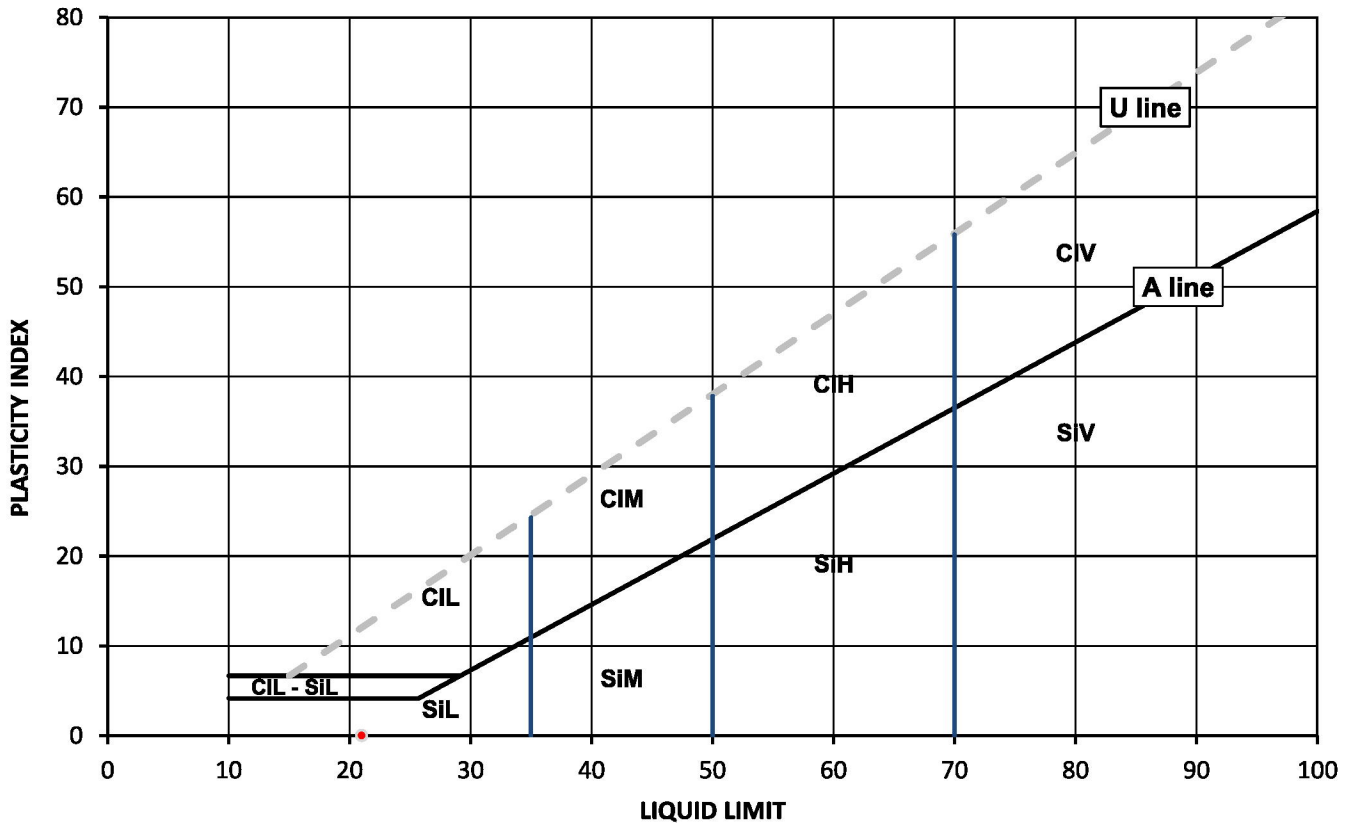
**Test Results:**

Laboratory Reference: 2439949  
 Hole No.: TP234  
 Sample Reference: Not Given  
 Sample Description: Yellowish brown clayey very gravelly SAND

Depth Top [m]: 0.70  
 Depth Base [m]: 0.90  
 Sample Type: D

Sample Preparation: Tested after washing to remove >425um

As Received Water Content [ W ] %	Liquid Limit [ WL ] %	Plastic Limit [ Wp ] %	Plasticity Index [ Ip ] %	% Passing 425µm BS Test Sieve
10	21	NP	NP	40



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

Cl	Clay	Plasticity	Liquid Limit
Si	Silt	L	below 35
		M	35 to 50
		H	50 to 70
		V	exceeding 70
		O	append to classification for organic material ( eg CIHO )

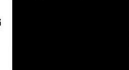
Note: Water Content by BS 1377-2: 1990: Clause 3.2

Remarks: NP - non plastic

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Tested in Accordance with: BS 1377-2:1990: Clause 4.3 and 5

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Environmental Science

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Date Sampled: 09/09/2022  
Date Received: 26/09/2022  
Date Tested: 04/10/2022  
Sampled By: Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

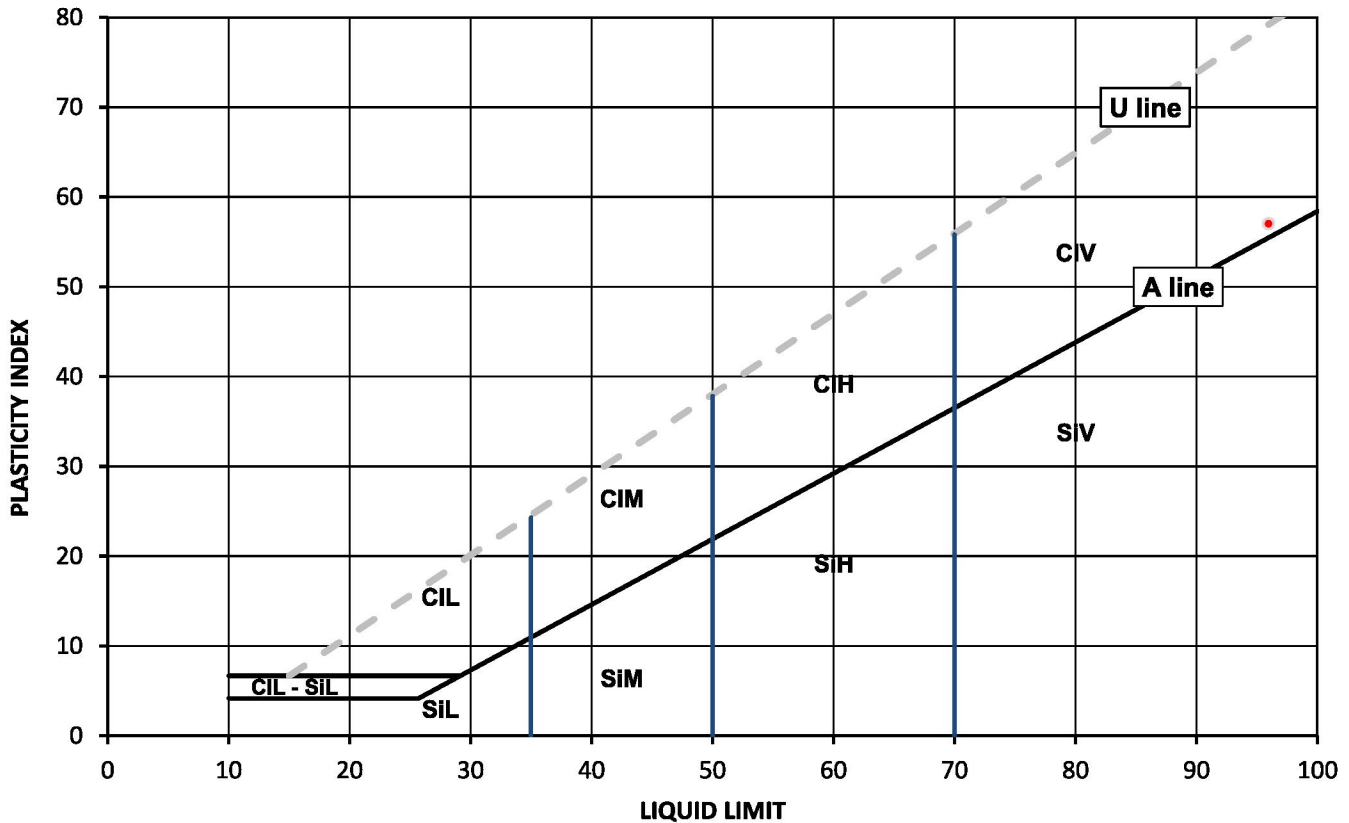
### Test Results:

Laboratory Reference: 2439951  
Hole No.: WS205  
Sample Reference: Not Given  
Sample Description: Brownish grey slightly gravelly CLAY

Depth Top [m]: 1.00  
Depth Base [m]: Not Given  
Sample Type: D

Sample Preparation: Tested after >425um removed by hand

As Received Water Content [ W ] %	Liquid Limit [ WL ] %	Plastic Limit [ Wp ] %	Plasticity Index [ Ip ] %	% Passing 425µm BS Test Sieve
38	96	39	57	99



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

Cl	Clay	Plasticity	L	Low	Liquid Limit	below 35
Si	Silt		M	Medium		35 to 50
			H	High		50 to 70
			V	Very high		exceeding 70
			O	Organic		append to classification for organic material ( eg CIHO )

Note: Water Content by BS 1377-2: 1990: Clause 3.2

Remarks:

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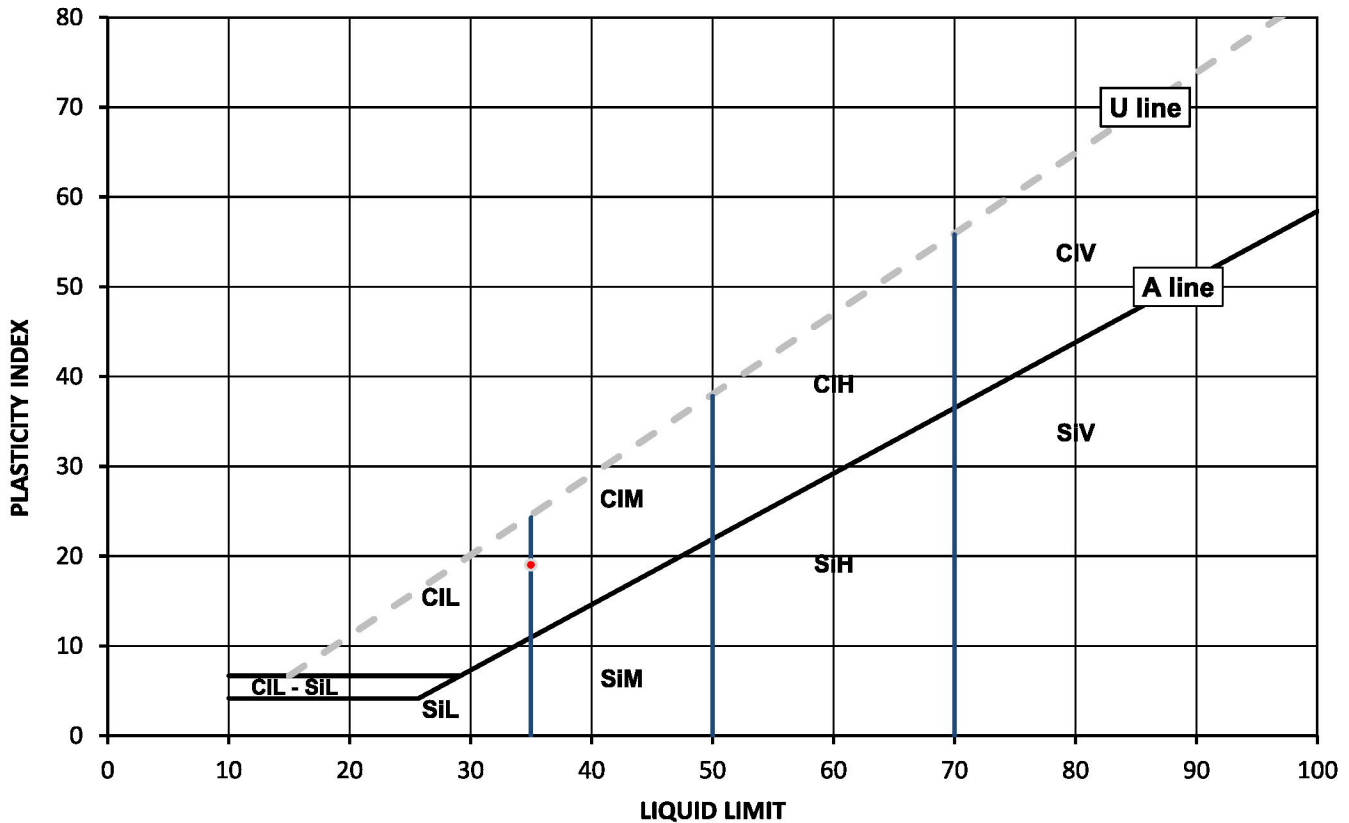
### Test Results:

Laboratory Reference: 2439952  
Hole No.: WS207  
Sample Reference: Not Given  
Sample Description: Greyish brown slightly gravelly sandy CLAY

Depth Top [m]: 0.90  
Depth Base [m]: Not Given  
Sample Type: D

Sample Preparation: Tested after >425um removed by hand

As Received Water Content [ W ] %	Liquid Limit [ WL ] %	Plastic Limit [ Wp ] %	Plasticity Index [ Ip ] %	% Passing 425µm BS Test Sieve
22	35	16	19	96



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

	Plasticity	Liquid Limit
Cl Clay	L Low	below 35
Si Silt	M Medium	35 to 50
	H High	50 to 70
	V Very high	exceeding 70
	O Organic	append to classification for organic material ( eg CIHO )

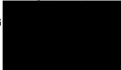
Note: Water Content by BS 1377-2: 1990: Clause 3.2

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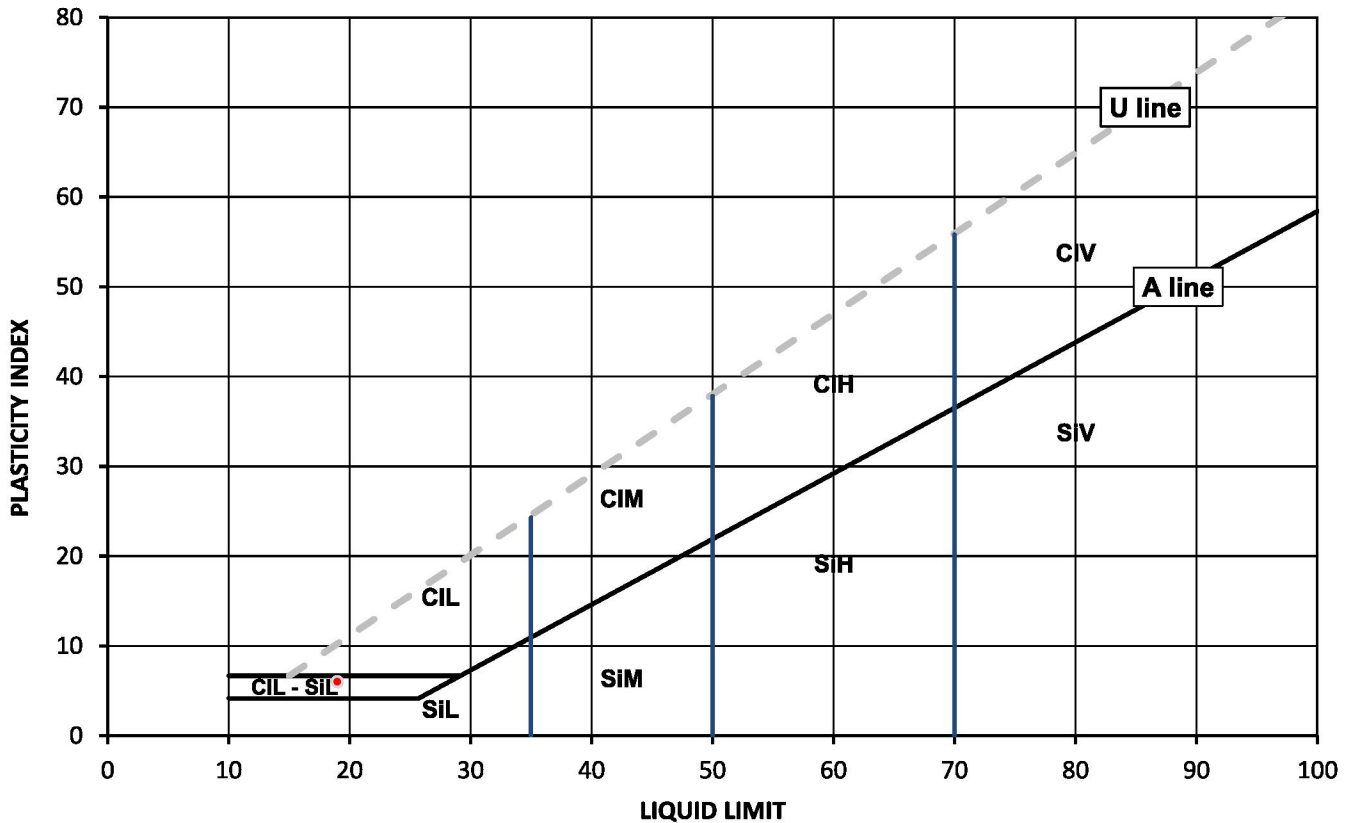
### Test Results:

Laboratory Reference: 2439953  
Hole No.: WS207  
Sample Reference: Not Given  
Sample Description: Brown gravelly slightly clayey SAND

Depth Top [m]: 1.80  
Depth Base [m]: Not Given  
Sample Type: D

Sample Preparation: Tested after washing to remove >425um

As Received Water Content [ W ] %	Liquid Limit [ WL ] %	Plastic Limit [ Wp ] %	Plasticity Index [ Ip ] %	% Passing 425µm BS Test Sieve
12	19	13	6	43



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

CI	Clay	Plasticity	Liquid Limit
Si	Silt	L	Low
		M	Medium
		H	High
		V	Very high
		O	Organic
			append to classification for organic material ( eg CIHO )

Note: Water Content by BS 1377-2: 1990: Clause 3.2

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Date Tested: 04/10/2022  
Sampled By: Not Given

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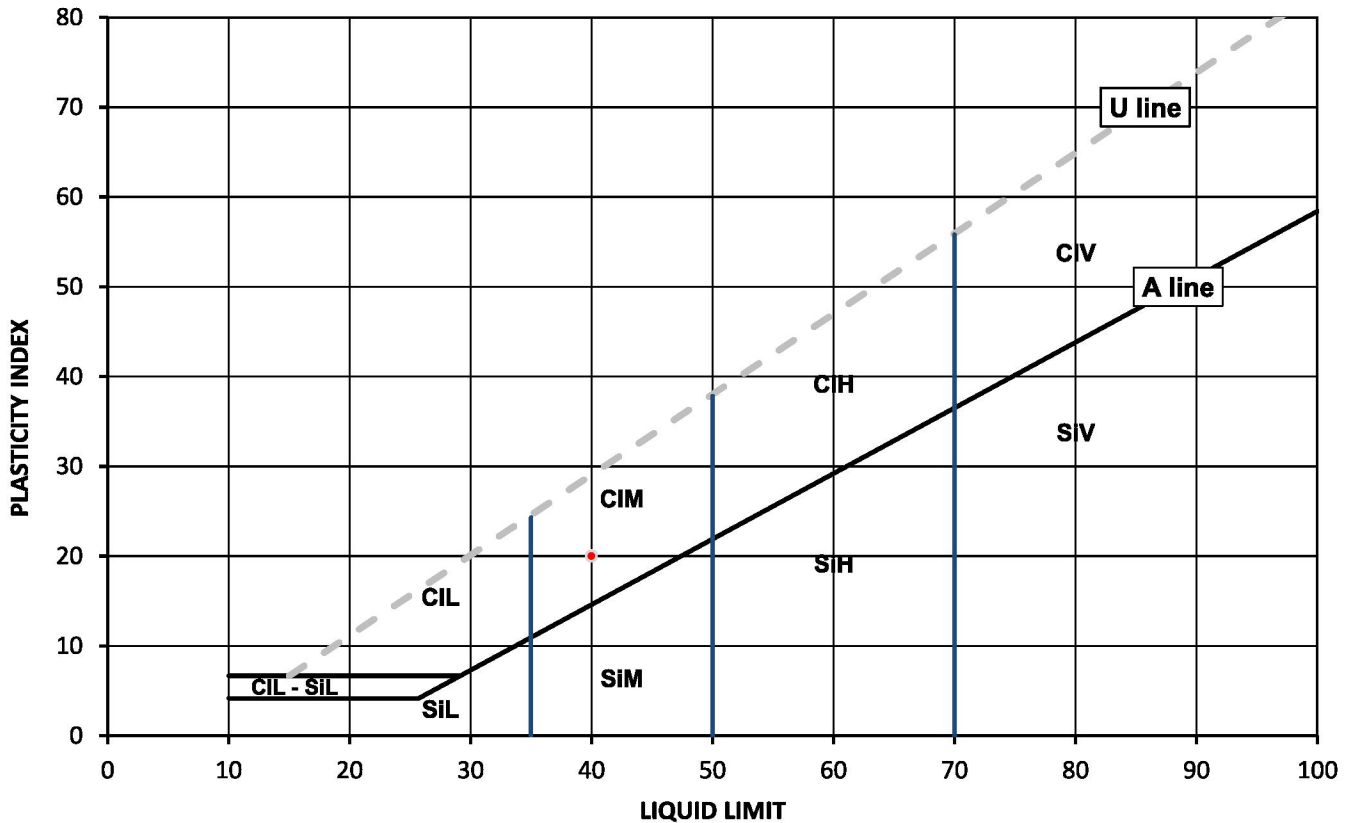
### Test Results:

Laboratory Reference: 2439954  
Hole No.: WS214  
Sample Reference: Not Given  
Sample Description: Yellowish brown very gravelly sandy CLAY

Depth Top [m]: 0.90  
Depth Base [m]: Not Given  
Sample Type: D

Sample Preparation: Tested after washing to remove >425um

As Received Water Content [ W ] %	Liquid Limit [ WL ] %	Plastic Limit [ Wp ] %	Plasticity Index [ Ip ] %	% Passing 425µm BS Test Sieve
7.8	40	20	20	35



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

Cl	Clay	Plasticity	L	Low	Liquid Limit	below 35
Si	Silt		M	Medium		35 to 50
			H	High		50 to 70
			V	Very high		exceeding 70
			O	Organic		append to classification for organic material ( eg CIHO )

Note: Water Content by BS 1377-2: 1990: Clause 3.2

Remarks:

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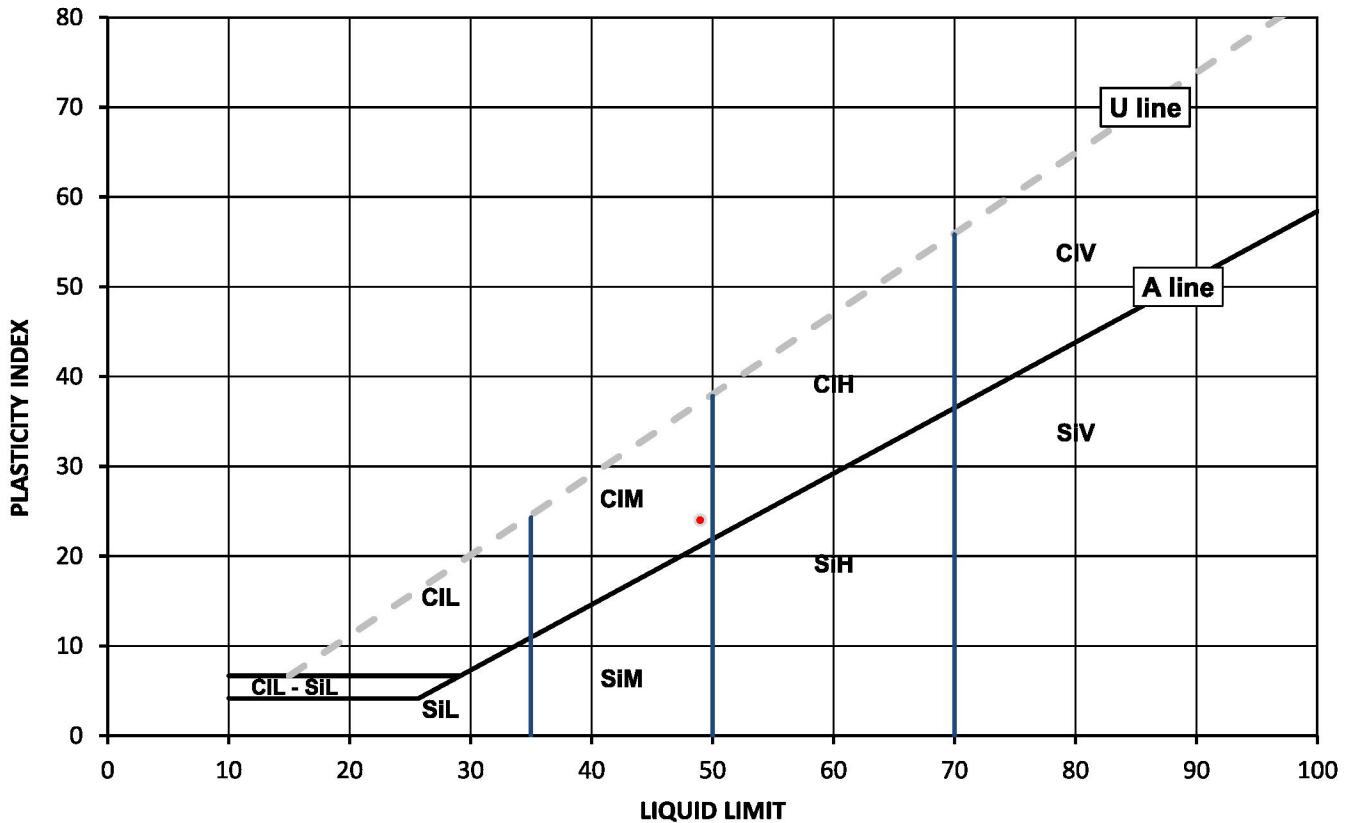
### Test Results:

Laboratory Reference: 2439955  
Hole No.: WS215  
Sample Reference: Not Given  
Sample Description: Yellowish brown gravelly slightly sandy CLAY

Depth Top [m]: 1.60  
Depth Base [m]: Not Given  
Sample Type: D

Sample Preparation: Tested after washing to remove >425um

As Received Water Content [ W ] %	Liquid Limit [ WL ] %	Plastic Limit [ Wp ] %	Plasticity Index [ Ip ] %	% Passing 425µm BS Test Sieve
15	49	25	24	58



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

Cl	Clay	Plasticity	Liquid Limit
Si	Silt	L	Low
		M	Medium
		H	High
		V	Very high
		O	Organic
			below 35
			35 to 50
			50 to 70
			exceeding 70
			append to classification for organic material ( eg CIHO )

Note: Water Content by BS 1377-2: 1990: Clause 3.2

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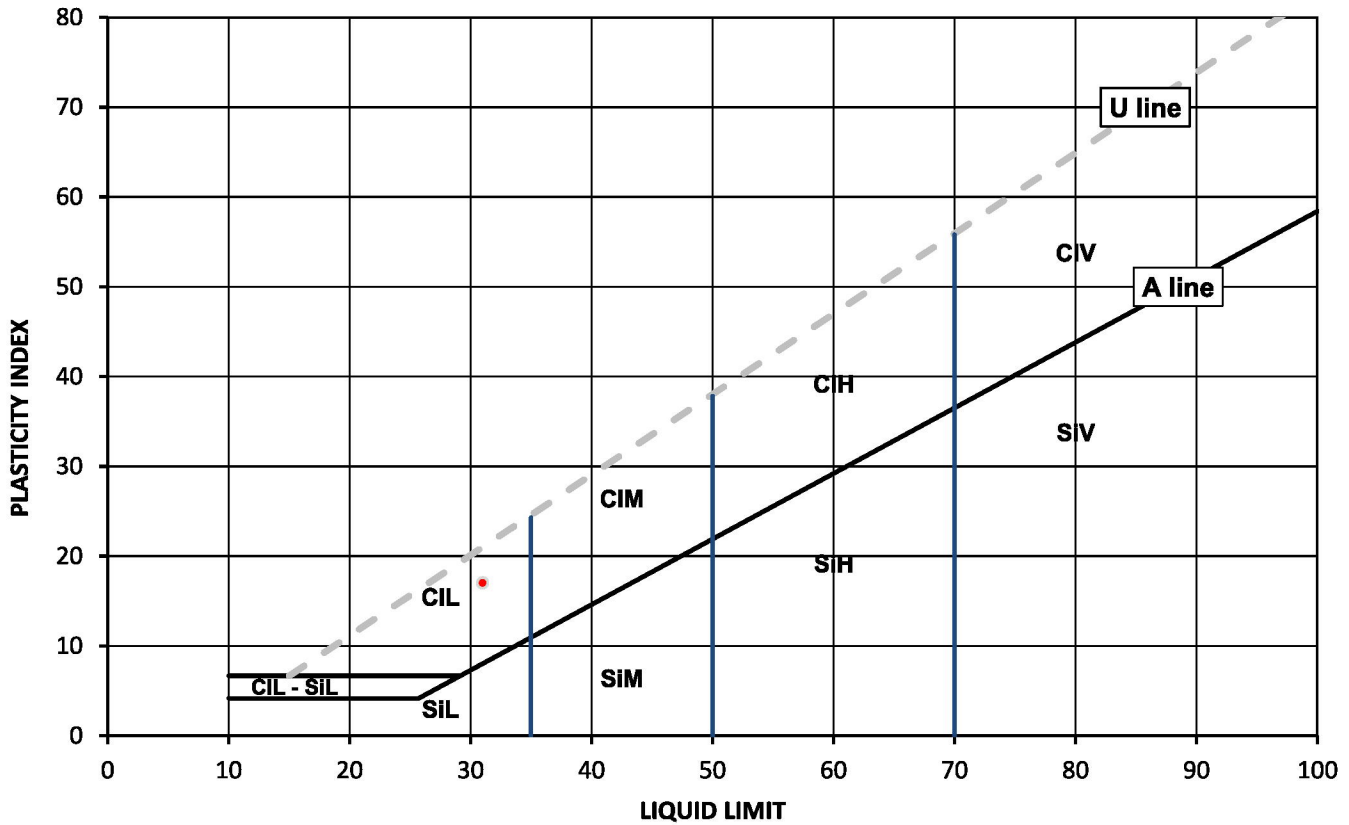
### Test Results:

Laboratory Reference: 2439957  
Hole No.: WS219  
Sample Reference: Not Given  
Sample Description: Yellowish brown very sandy CLAY

Depth Top [m]: 1.10  
Depth Base [m]: Not Given  
Sample Type: D

Sample Preparation: Tested in natural condition

As Received Water Content [ W ] %	Liquid Limit [ WL ] %	Plastic Limit [ Wp ] %	Plasticity Index [ Ip ] %	% Passing 425µm BS Test Sieve
11	31	14	17	100



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

CI	Clay	Plasticity	Liquid Limit
Si	Silt	L	Low
		M	Medium
		H	High
		V	Very high
		O	Organic
			below 35
			35 to 50
			50 to 70
			exceeding 70
			append to classification for organic material ( eg CIHO )

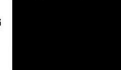
Note: Water Content by BS 1377-2: 1990: Clause 3.2

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Sampled By: Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

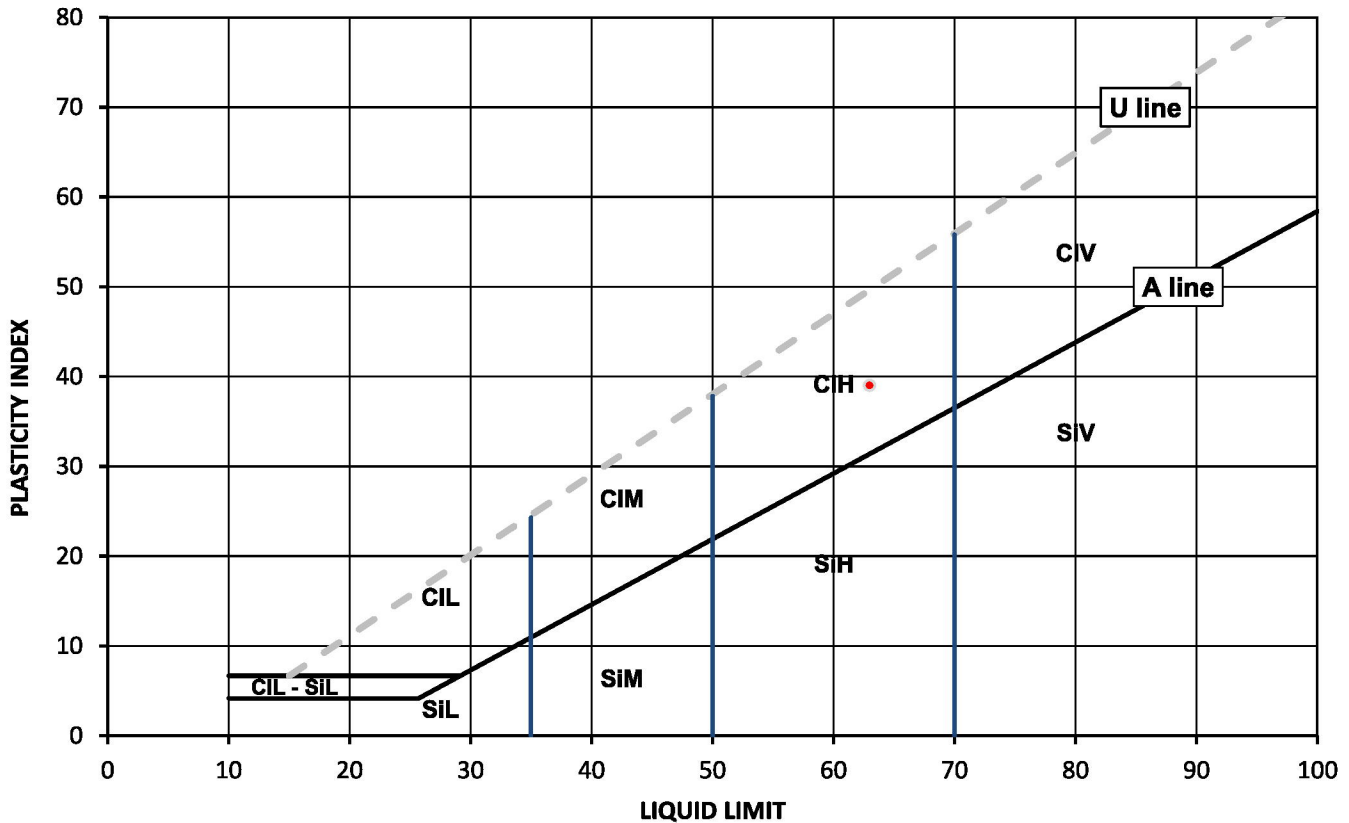
### Test Results:

Laboratory Reference: 2439958  
Hole No.: WS219  
Sample Reference: Not Given  
Sample Description: Yellowish brown to grey CLAY

Depth Top [m]: 2.00  
Depth Base [m]: Not Given  
Sample Type: D

Sample Preparation: Tested in natural condition

As Received Water Content [ W ] %	Liquid Limit [ WL ] %	Plastic Limit [ Wp ] %	Plasticity Index [ Ip ] %	% Passing 425µm BS Test Sieve
26	63	24	39	100



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

CI	Clay	Plasticity	Liquid Limit
Si	Silt	L	below 35
		M	35 to 50
		H	50 to 70
		V	exceeding 70
		O	append to classification for organic material ( eg CIHO )

Note: Water Content by BS 1377-2: 1990: Clause 3.2

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Sampled By: Not Given

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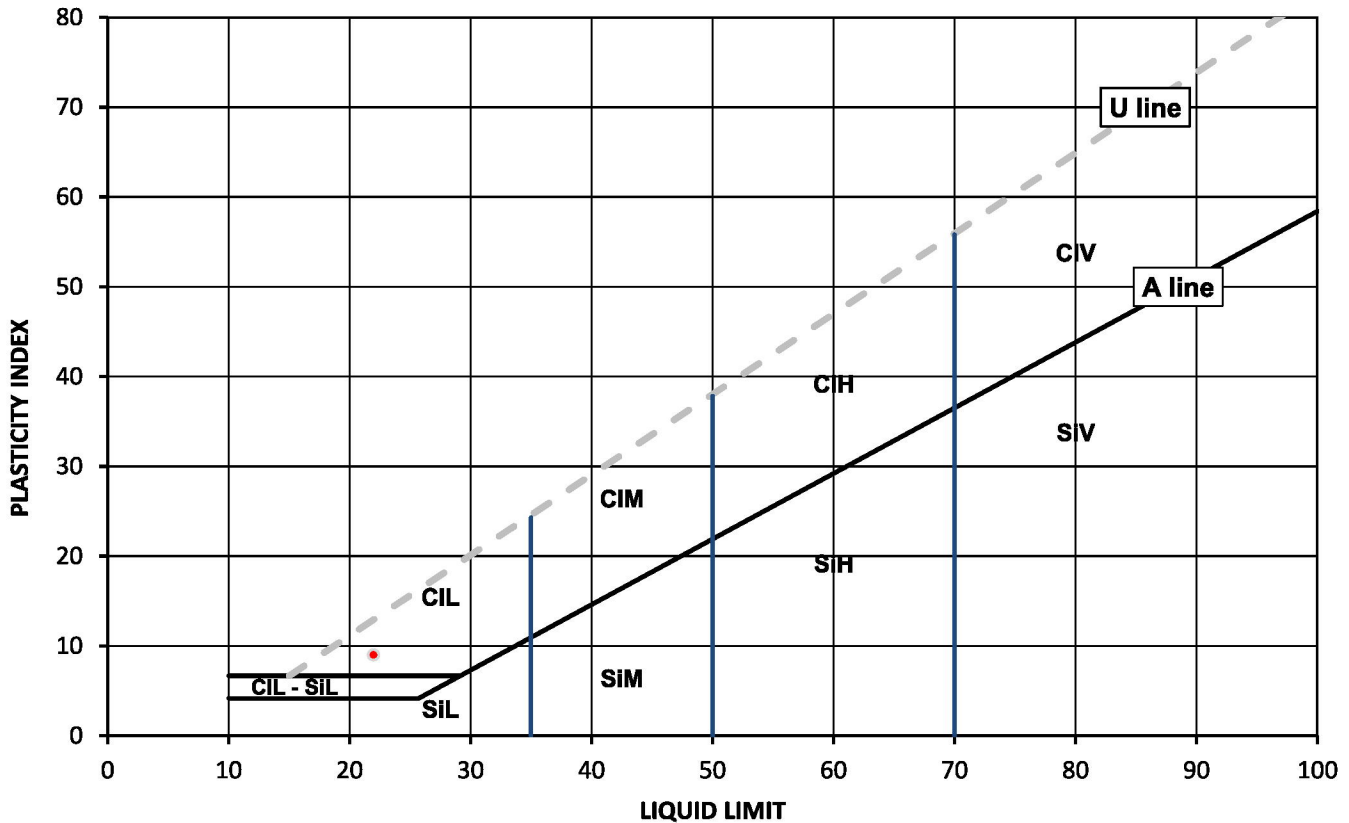
### Test Results:

Laboratory Reference: 2439960  
Hole No.: WS225  
Sample Reference: Not Given  
Sample Description: Yellowish brown gravelly clayey SAND

Depth Top [m]: 1.20  
Depth Base [m]: 2.00  
Sample Type: D

Sample Preparation: Tested after washing to remove >425um

As Received Water Content [ W ] %	Liquid Limit [ WL ] %	Plastic Limit [ Wp ] %	Plasticity Index [ Ip ] %	% Passing 425µm BS Test Sieve
6.7	22	13	9	39



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

CI	Clay	Plasticity	Liquid Limit
Si	Silt	L	Low
		M	Medium
		H	High
		V	Very high
		O	Organic
			below 35
			35 to 50
			50 to 70
			exceeding 70
			append to classification for organic material ( eg CIHO )

Note: Water Content by BS 1377-2: 1990: Clause 3.2

Remarks:

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Environmental Science

4041

Client: Hydrock Consultants Ltd  
Client Address: 2-4 Hawthorne Park, Holdenby Road,  
Spratton, Northamptonshire,  
NN6 8LD  
Contact: Nathan Thompson  
Site Address: Begbroke

Client Reference: 19114  
Job Number: 22-86688  
Date Sampled: 09/09/2022  
Date Received: 26/09/2022  
Date Tested: 04/10/2022  
Sampled By: Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

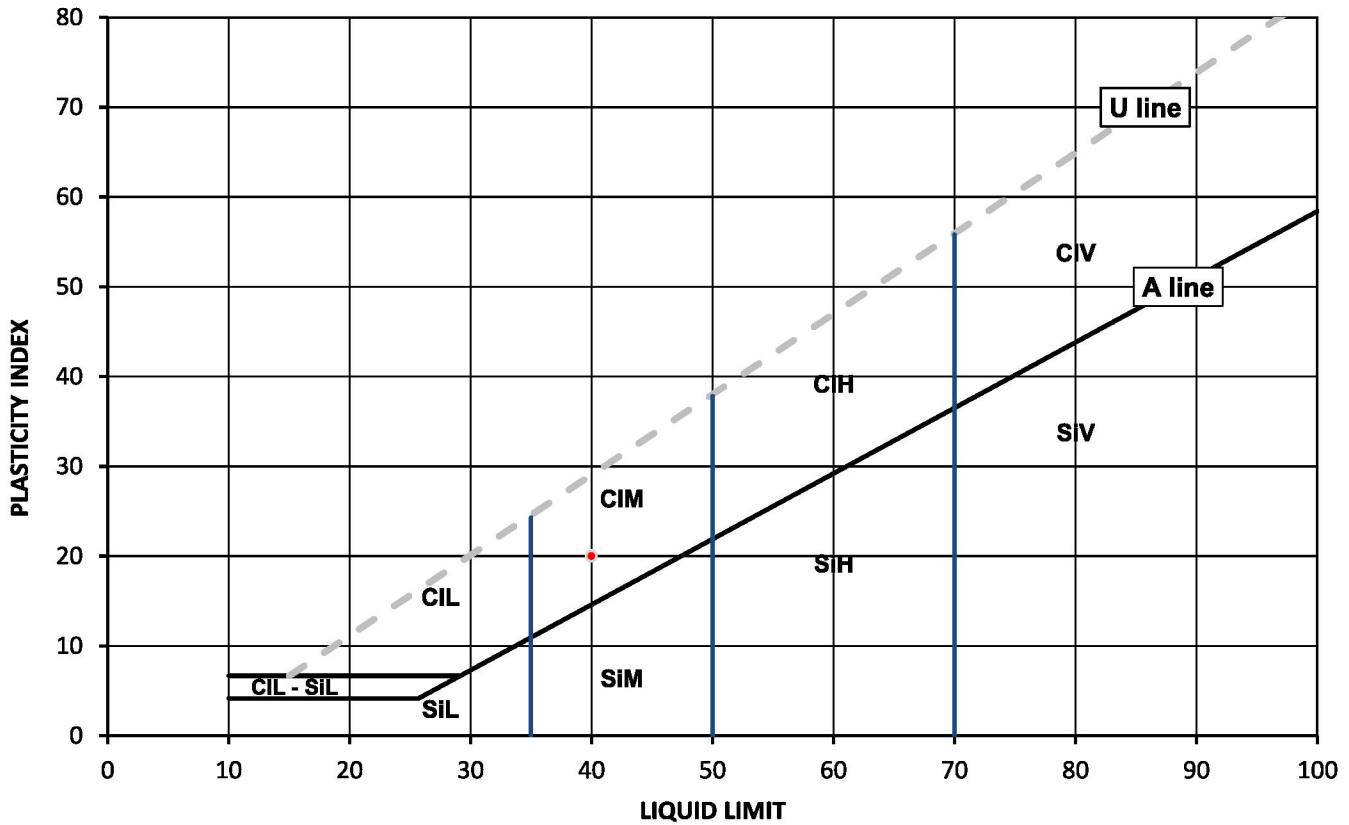
### Test Results:

Laboratory Reference: 2439962  
Hole No.: WS233  
Sample Reference: Not Given  
Sample Description: Yellowish brown to grey slightly gravelly sandy CLAY

Depth Top [m]: 1.60  
Depth Base [m]: Not Given  
Sample Type: D

Sample Preparation: Tested after >425um removed by hand

As Received Water Content [ W ] %	Liquid Limit [ WL ] %	Plastic Limit [ Wp ] %	Plasticity Index [ Ip ] %	% Passing 425µm BS Test Sieve
20	40	20	20	99



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

	Plasticity	Liquid Limit
Cl Clay	L Low	below 35
Si Silt	M Medium	35 to 50
	H High	50 to 70
	V Very high	exceeding 70
	O Organic	append to classification for organic material ( eg CIHO )

Note: Water Content by BS 1377-2: 1990: Clause 3.2

Remarks:

Signed:



Monika Siewior  
Reporting Specialist  
for and on behalf of i2 Analytical Ltd

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# TEST CERTIFICATE

DETERMINATION OF LIQUID AND PLASTIC LIMITS  
Tested in Accordance with: BS 1377-2:1990: Clause 4.3 and 5

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

4041

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NN6 8LD  
Contact: Nathan Thompson  
Site Address: Begbroke

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Date Tested: 04/10/2022  
Sampled By: Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

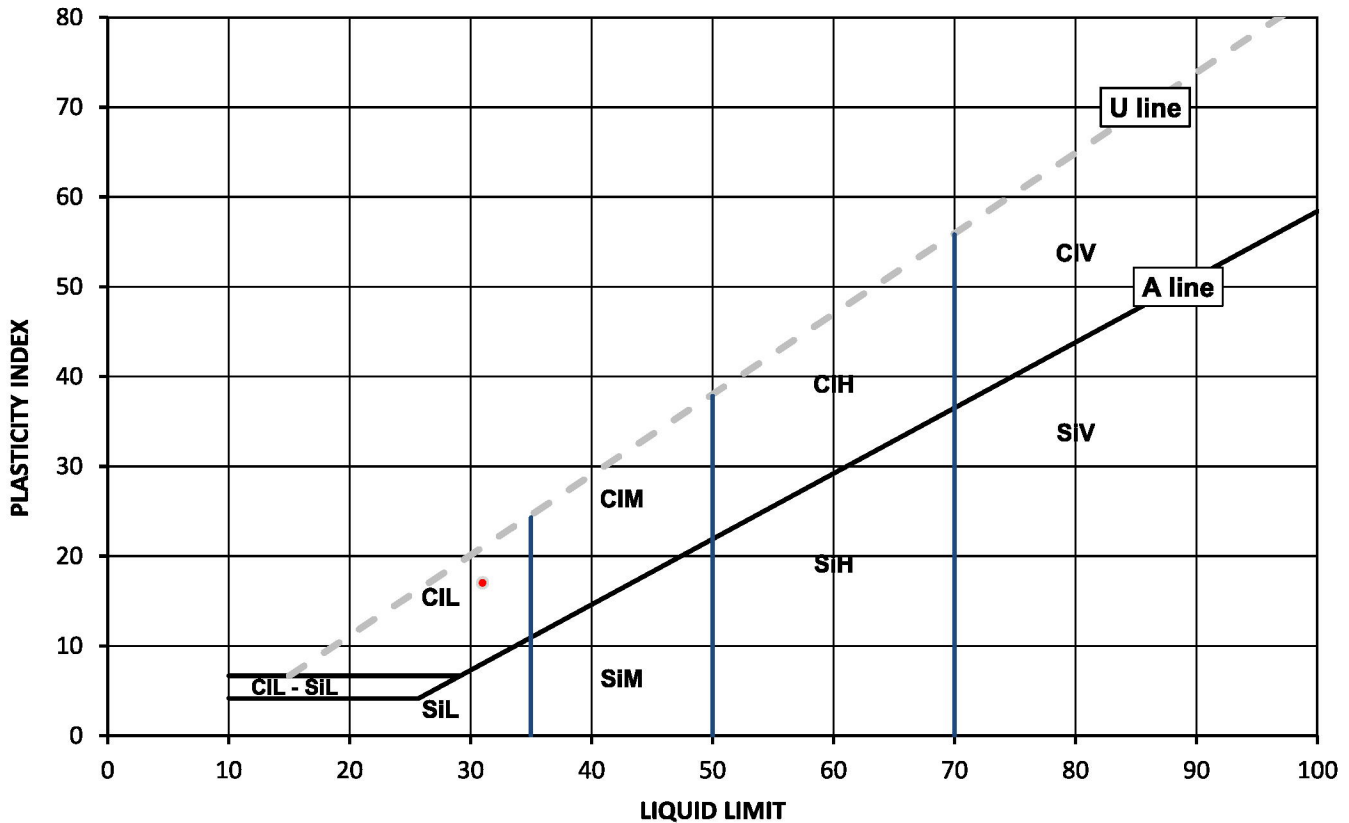
## Test Results:

Laboratory Reference: 2439963  
Hole No.: WS235  
Sample Reference: Not Given  
Sample Description: Grey very sandy CLAY

Depth Top [m]: 1.00  
Depth Base [m]: Not Given  
Sample Type: D

Sample Preparation: Tested in natural condition

As Received Water Content [ W ] %	Liquid Limit [ WL ] %	Plastic Limit [ Wp ] %	Plasticity Index [ Ip ] %	% Passing 425µm BS Test Sieve
19	31	14	17	100



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

	Plasticity	Liquid Limit
Cl Clay	L Low	below 35
Si Silt	M Medium	35 to 50
	H High	50 to 70
	V Very high	exceeding 70
	O Organic	append to classification for organic material ( eg CIHO )

Note: Water Content by BS 1377-2: 1990: Clause 3.2

Remarks:

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# TEST CERTIFICATE

**DETERMINATION OF LIQUID AND PLASTIC LIMITS**  
Tested in Accordance with: BS 1377-2:1990: Clause 4.3 and 5

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

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Contact: Nathan Thompson  
Site Address: Begbroke

Client Reference: 19114  
Job Number: 22-86688  
Date Sampled: 09/09/2022  
Date Received: 26/09/2022  
Date Tested: 05/10/2022  
Sampled By: Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

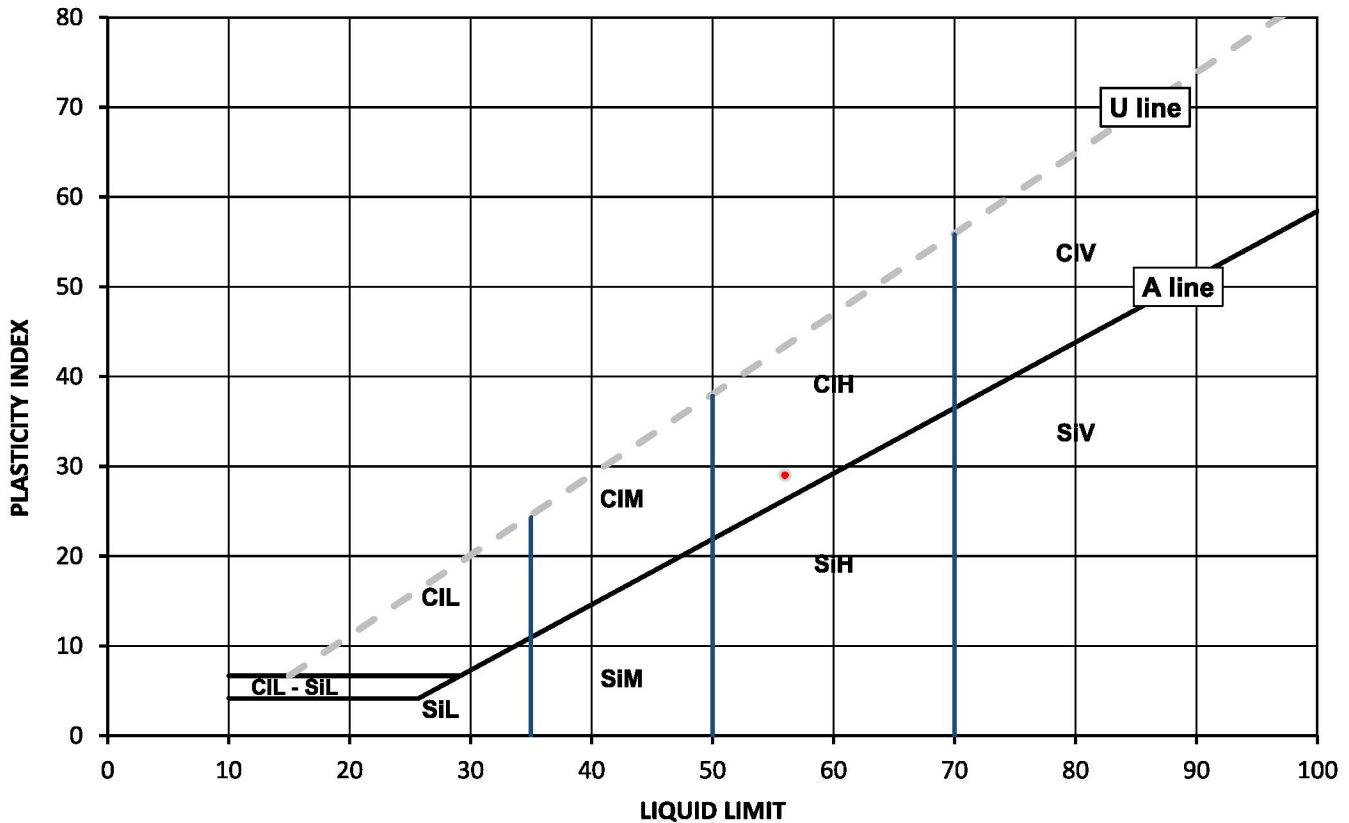
### Test Results:

Laboratory Reference: 2439964  
Hole No.: WS241  
Sample Reference: Not Given  
Sample Description: Yellowish brown slightly gravelly slightly sandy CLAY

Depth Top [m]: 2.80  
Depth Base [m]: Not Given  
Sample Type: D

Sample Preparation: Tested after washing to remove >425um

As Received Water Content [ W ] %	Liquid Limit [ WL ] %	Plastic Limit [ Wp ] %	Plasticity Index [ Ip ] %	% Passing 425µm BS Test Sieve
30	56	27	29	90



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

CI	Clay	Plasticity	Liquid Limit
Si	Silt	L	below 35
		M	35 to 50
		H	50 to 70
		V	exceeding 70
		O	append to classification for organic material ( eg CIHO )

Note: Water Content by BS 1377-2: 1990: Clause 3.2

Remarks:

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# TEST CERTIFICATE

DETERMINATION OF LIQUID AND PLASTIC LIMITS  
Tested in Accordance with: BS 1377-2:1990: Clause 4.3 and 5

i2 Analytical Ltd  
Unit 8 Harrowden Road  
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Environmental Science

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Contact: Nathan Thompson  
Site Address: Begbroke

Client Reference: 19114  
Job Number: 22-86688  
Date Sampled: 09/09/2022  
Date Received: 26/09/2022  
Date Tested: 04/10/2022  
Sampled By: Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

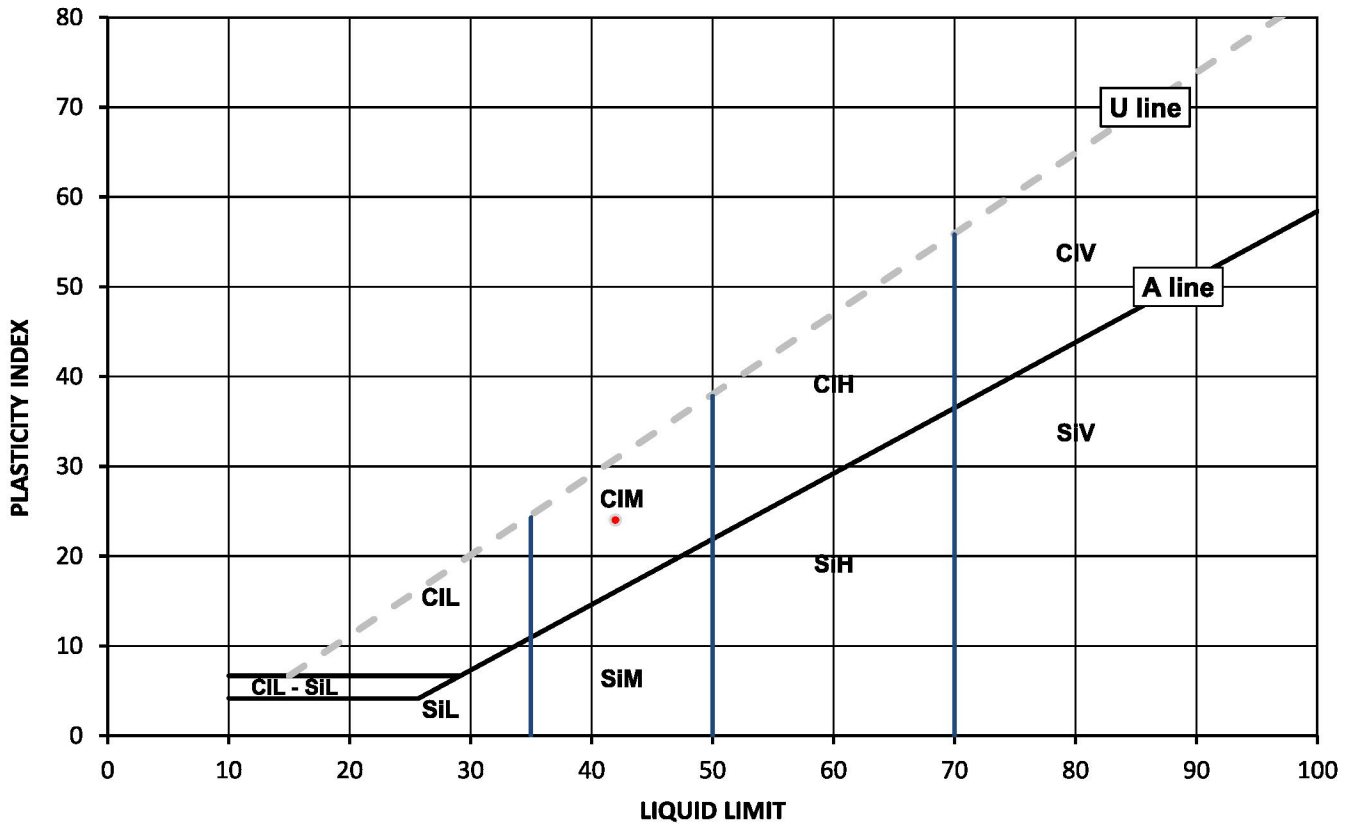
### Test Results:

Laboratory Reference: 2439965  
Hole No.: WS242  
Sample Reference: Not Given  
Sample Description: Brown slightly gravelly sandy CLAY

Depth Top [m]: 1.60  
Depth Base [m]: Not Given  
Sample Type: D

Sample Preparation: Tested after >425um removed by hand

As Received Water Content [ W ] %	Liquid Limit [ WL ] %	Plastic Limit [ Wp ] %	Plasticity Index [ Ip ] %	% Passing 425µm BS Test Sieve
23	42	18	24	85



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

Cl	Clay	Plasticity	Liquid Limit
Si	Silt	L	below 35
		M	35 to 50
		H	50 to 70
		V	exceeding 70
		O	append to classification for organic material ( eg CIHO )

Note: Water Content by BS 1377-2: 1990: Clause 3.2

Remarks:

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Contact: Nathan Thompson  
Site Address: Begbroke

Client Reference: 19114  
Job Number: 22-86688  
Date Sampled: Not Given  
Date Received: 26/09/2022  
Date Tested: 06/10/2022  
Sampled By: Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

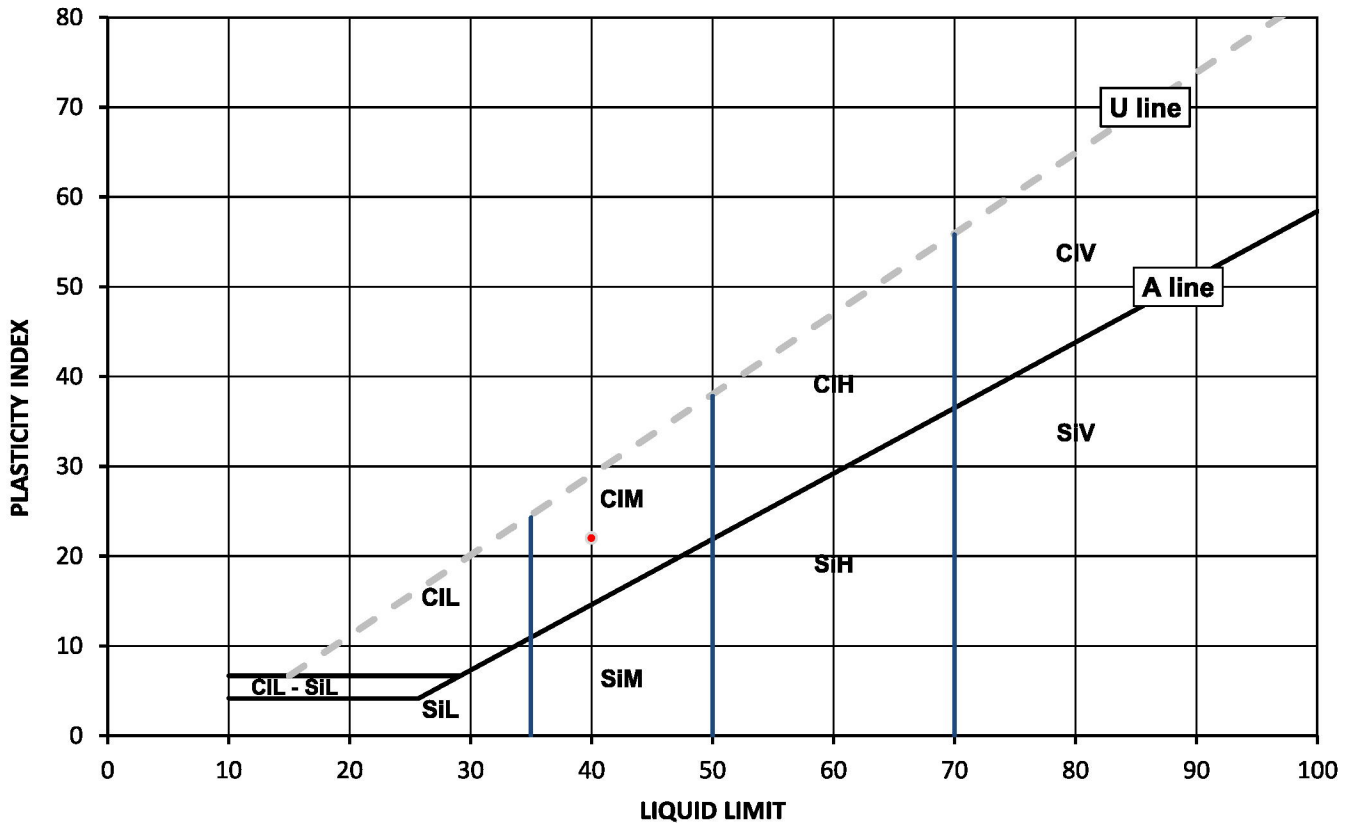
### Test Results:

Laboratory Reference: 2441113  
Hole No.: WS245  
Sample Reference: Not Given  
Sample Description: Brownish grey slightly gravelly sandy CLAY

Depth Top [m]: 1.10  
Depth Base [m]: Not Given  
Sample Type: D

Sample Preparation: Tested after washing to remove >425um

As Received Water Content [ W ] %	Liquid Limit [ WL ] %	Plastic Limit [ Wp ] %	Plasticity Index [ Ip ] %	% Passing 425µm BS Test Sieve
34	40	18	22	93



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

CI	Clay	Plasticity	Liquid Limit
Si	Silt	L	below 35
		M	35 to 50
		H	50 to 70
		V	exceeding 70
		O	append to classification for organic material ( eg CIHO )

Note: Water Content by BS 1377-2: 1990: Clause 3.2

Remarks:

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# SUMMARY REPORT

## SUMMARY OF CLASSIFICATION TEST RESULTS

Tested in Accordance with:

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

4041

Client: Hydrock Consultants Ltd  
Client Address: 2-4 Hawthorne Park, Holdenby Road,  
Spratton, Northamptonshire,  
NN6 8LD

Water Content by BS 1377-2:1990: Clause 3.2; Atterberg by BS 1377-2: 1990:  
Clause 4.3 (4 Point Test), Clause 4.4 (1 Point Test) and 5; PD by BS 1377-2:  
1990: Clause 8.2

Client Reference: 19114  
Job Number: 22-86688  
Date Sampled: 09/09/2022  
Date Received: 26/09/2022  
Date Tested: 04/10 - 05/10/2022  
Sampled By: Not Given

Contact: Nathan Thompson  
Site Address: Begbroke

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test results

Laboratory Reference	Hole No.	Sample				Description	Remarks	Water Content BS 1377-2 [ W ] %	Water Content BS EN ISO 17892-2 [ W ] %	Atterberg				Density			Total Porosity# %	
		Reference	Depth Top m	Depth Base m	Type					% Passing 425um	WL %	Wp %	Ip %	bulk Mg/m3	dry Mg/m3	PD Mg/m3		
2439922	BH202	Not Given	2.00	2.45	D	Yellowish brown slightly gravelly very sandy CLAY	Atterberg 4 Point	15		85	29	15	14					
2439923	BH202	Not Given	6.30	6.60	D	Greyish brown CLAY		20										
2439917	TP201	Not Given	0.70	Not Given	D	Orangish brown silty clayey very gravelly SAND	Atterberg 4 Point	9.8		40	35	18	17			2.92		
2439924	TP201	Not Given	1.80	Not Given	D	Brown CLAY		30										
2439925	TP201	Not Given	2.60	Not Given	D	Grey slightly gravelly CLAY	Atterberg 4 Point	29		99	74	29	45					
2439918	TP203	Not Given	1.30	Not Given	D	Brownish grey slightly sandy very silty CLAY	Atterberg 4 Point	27		100	71	31	40			2.72		
2439926	TP204	Not Given	0.60	0.70	D	Yellowish brown slightly clayey gravelly SAND		6.4										
2439927	TP206	Not Given	0.40	Not Given	D	Brown gravelly sandy CLAY	Atterberg 4 Point	12		49	40	19	21					
2439928	TP207	Not Given	0.70	Not Given	D	Yellowish brown slightly clayey slightly sandy COBBLES		2.7										
2439919	TP208	Not Given	0.60	0.70	D	Orangish brown silty clayey very gravelly SAND	Atterberg 4 Point	6.7		38	41	20	21			2.92		

Note: # Non accredited; NP - Non plastic

Comments:

Signed:



Monika Siewior  
Reporting Specialist  
for and on behalf of i2 Analytical Ltd

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# SUMMARY REPORT

## SUMMARY OF CLASSIFICATION TEST RESULTS

Tested in Accordance with:

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

4041

Client: Hydrock Consultants Ltd  
Client Address: 2-4 Hawthorne Park, Holdenby Road,  
Spratton, Northamptonshire,  
NN6 8LD

Water Content by BS 1377-2:1990: Clause 3.2; Atterberg by BS 1377-2: 1990:  
Clause 4.3 (4 Point Test), Clause 4.4 (1 Point Test) and 5; PD by BS 1377-2:  
1990: Clause 8.2

Client Reference: 19114  
Job Number: 22-86688  
Date Sampled: 09/09/2022  
Date Received: 26/09/2022  
Date Tested: 04/10/2022  
Sampled By: Not Given

Contact: Nathan Thompson  
Site Address: Begbroke

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test results

Laboratory Reference	Hole No.	Sample				Description	Remarks	Water Content BS 1377-2 [ W ] %	Water Content BS EN ISO 17892-2 [ W ] %	Atterberg				Density			Total Porosity# %
		Reference	Depth Top m	Depth Base m	Type					% Passing 425um	WL %	Wp %	Ip %	bulk Mg/m3	dry Mg/m3	PD Mg/m3	
2439929	TP209	Not Given	0.60	Not Given	D	Brown silty clayey very gravelly SAND	7.0										
2439930	TP209	Not Given	3.40	Not Given	D	Brown slightly gravelly CLAY	27		99	70	27	43					
2439931	TP211	Not Given	0.60	Not Given	D	Brown gravelly sandy CLAY	12		54	36	18	18					
2439932	TP211	Not Given	1.20	Not Given	D	Brown gravelly silty clayey SAND	13										
2439933	TP212	Not Given	0.70	Not Given	D	Brown slightly clayey very gravelly SAND	5.8										
2439934	TP213	Not Given	1.30	Not Given	D	Brown gravelly CLAY	11										
2439935	TP215	Not Given	0.80	Not Given	D	Brown slightly gravelly very sandy CLAY	22		84	25	12	13					
2439920	TP218	Not Given	0.70	Not Given	D	Yellowish brown sandy silty clayey GRAVEL	13		42	34	18	16			2.74		
2439936	TP218	Not Given	3.20	Not Given	D	Yellowish brown slightly gravelly very sandy CLAY	23		89	31	16	15					
2439937	TP219	Not Given	2.30	Not Given	D	Brownish grey slightly gravelly very sandy CLAY	14		99	28	15	13					

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Comments:

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# SUMMARY REPORT

## SUMMARY OF CLASSIFICATION TEST RESULTS

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Northampton NN4 7EB



Environmental Science

4041

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NN6 8LD

Water Content by BS 1377-2:1990: Clause 3.2; Atterberg by BS 1377-2: 1990:  
Clause 4.3 (4 Point Test), Clause 4.4 (1 Point Test) and 5; PD by BS 1377-2:  
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Client Reference: 19114  
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Date Sampled: 09/09/2022  
Date Received: 26/09/2022  
Date Tested: 04/10 - 06/10/2022  
Sampled By: Not Given

Contact: Nathan Thompson  
Site Address: Begbroke

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test results

Laboratory Reference	Hole No.	Sample				Description	Remarks	Water Content BS 1377-2 [ W ] %	Water Content BS EN ISO 17892-2 [ W ] %	Atterberg				Density			Total Porosity# %	
		Reference	Depth Top m	Depth Base m	Type					% Passing 425um	WL %	Wp %	Ip %	bulk Mg/m3	dry Mg/m3	PD Mg/m3		
2439938	TP220	Not Given	2.50	Not Given	D	Grey mottled brown gravelly silty clayey SAND	Atterberg 4 Point	18		94	29	16	13					
2439939	TP221	Not Given	0.70	Not Given	D	Brown clayey gravelly SAND		6.4										
2439921	TP221	Not Given	2.20	2.30	D	Orangish brown clayey very gravelly SAND	Atterberg 4 Point	8.3		46	22	NP	NP			2.83		
2439940	TP223	Not Given	1.20	Not Given	D	Yellowish brown slightly clayey silty SAND and GRAVEL		7.8										
2439941	TP224	Not Given	0.90	Not Given	D	Yellowish brown slightly gravelly sandy CLAY		9.8										
2439942	TP225	Not Given	1.30	Not Given	D	Yellowish brown gravelly very sandy CLAY	Atterberg 4 Point	20		63	32	16	16					
2441113	WS245	Not Given	1.10	Not Given	D	Brownish grey slightly gravelly sandy CLAY	Atterberg 4 Point	34		93	40	18	22					
2439944	TP226	Not Given	1.40	Not Given	D	Greyish brown CLAY		28										
2439945	TP227	Not Given	2.20	Not Given	D	Yellowish brown clayey very gravelly SAND	Atterberg 4 Point	13		36	27	15	12					
2439946	TP229	Not Given	1.20	Not Given	D	Yellowish brown slightly clayey gravelly SAND	Atterberg 4 Point	5.9		43	19	NP	NP					

Note: # Non accredited; NP - Non plastic

Comments:

Signed:



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# SUMMARY REPORT

## SUMMARY OF CLASSIFICATION TEST RESULTS

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

Tested in Accordance with:

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Client: Hydrock Consultants Ltd  
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Site Address: Begbroke

Water Content by BS 1377-2:1990: Clause 3.2; Atterberg by BS 1377-2: 1990:  
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1990: Clause 8.2

Client Reference: 19114  
Job Number: 22-86688  
Date Sampled: 09/09/2022  
Date Received: 26/09/2022  
Date Tested: 04/10 - 06/10/2022  
Sampled By: Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test results

Laboratory Reference	Hole No.	Sample				Description	Remarks	Water Content BS 1377-2 [ W ] %	Water Content BS EN ISO 17892-2 [ W ] %	Atterberg				Density			Total Porosity# %
		Reference	Depth Top m	Depth Base m	Type					% Passing 425um	WL %	Wp %	Ip %	bulk Mg/m3	dry Mg/m3	PD Mg/m3	
2439947	TP230	Not Given	1.00	Not Given	D	Brownish grey gravelly SAND	7.7										
2439948	TP232	Not Given	0.50	Not Given	D	Brown CLAY	29		100	72	28	44					
2439949	TP234	Not Given	0.70	0.90	D	Yellowish brown clayey very gravelly SAND	10		40	21	NP	NP					
2439950	WS201	Not Given	1.70	Not Given	D	Brownish grey CLAY with fragments of chalk	28										
2439951	WS205	Not Given	1.00	Not Given	D	Brownish grey slightly gravelly CLAY	38		99	96	39	57					
2439952	WS207	Not Given	0.90	Not Given	D	Greyish brown slightly gravelly sandy CLAY	22		96	35	16	19					
2439953	WS207	Not Given	1.80	Not Given	D	Brown gravelly slightly clayey SAND	12		43	19	13	6					
2439954	WS214	Not Given	0.90	Not Given	D	Yellowish brown very gravelly sandy CLAY	7.8		35	40	20	20					
2439955	WS215	Not Given	1.60	Not Given	D	Yellowish brown gravelly slightly sandy CLAY	15		58	49	25	24					
2439956	WS217	Not Given	2.70	Not Given	D	Yellowish brown clayey gravelly SAND	4.4		38	21	NP	NP					

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Comments:

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**SUMMARY REPORT****SUMMARY OF CLASSIFICATION TEST RESULTS**

Tested in Accordance with:

Water Content by BS 1377-2:1990: Clause 3.2; Atterberg by BS 1377-2: 1990:  
 Clause 4.3 (4 Point Test), Clause 4.4 (1 Point Test) and 5; PD by BS 1377-2:  
 1990: Clause 8.2

i2 Analytical Ltd  
 Unit 8 Harrowden Road  
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Environmental Science

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 Date Sampled: 09/09/2022  
 Date Received: 26/09/2022  
 Date Tested: 04/10 - 06/10/2022  
 Sampled By: Not Given

**Test results**

Laboratory Reference	Hole No.	Sample				Description	Remarks	Water Content BS 1377-2 [ W ] %	Water Content BS EN ISO 17892-2 [ W ] %	Atterberg				Density			Total Porosity# %		
		Reference	Depth Top m	Depth Base m	Type					% Passing 425um	WL %	Wp %	Ip %	bulk Mg/m3	dry Mg/m3	PD Mg/m3			
2439957	WS219	Not Given	1.10	Not Given	D	Yellowish brown very sandy CLAY	Atterberg 4 Point	11		100	31	14	17						
2439958	WS219	Not Given	2.00	Not Given	D	Yellowish brown to grey CLAY	Atterberg 4 Point	26		100	63	24	39						
2439959	WS219	Not Given	3.20	4.00	D	Grey CLAY		24											
2439960	WS225	Not Given	1.20	2.00	D	Yellowish brown gravelly clayey SAND	Atterberg 4 Point	6.7		39	22	13	9						
2439961	WS227	Not Given	2.00	Not Given	D	Yellowish brown very gravelly SAND		7.5											
2439962	WS233	Not Given	1.60	Not Given	D	Yellowish brown to grey slightly gravelly sandy CLAY	Atterberg 4 Point	20		99	40	20	20						
2439963	WS235	Not Given	1.00	Not Given	D	Grey very sandy CLAY	Atterberg 4 Point	19		100	31	14	17						
2439964	WS241	Not Given	2.80	Not Given	D	Yellowish brown slightly gravelly slightly sandy CLAY	Atterberg 4 Point	30		90	56	27	29						
2439965	WS242	Not Given	1.60	Not Given	D	Brown slightly gravelly sandy CLAY	Atterberg 4 Point	23		85	42	18	24						

Note: # Non accredited; NP - Non plastic

Comments:

Signed:



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# SUMMARY REPORT

## DETERMINATION OF WATER CONTENT

Tested in Accordance with: BS 1377-2: 1990: Clause 3.2

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

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Client Address: 2-4 Hawthorne Park, Holdenby Road,  
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NN6 8LD

Contact: Nathan Thompson  
Site Address: Begbroke

Client Reference: 19114  
Job Number: 22-86688  
Date Sampled: 09/09/2022  
Date Received: 26/09/2022  
Date Tested: 04/10 - 06/10/2022  
Sampled By: Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test results

Laboratory Reference	Hole No.	Sample				Description	Remarks	WC %	Sample preparation / Oven temperature at the time of testing			
		Reference	Depth Top m	Depth Base m	Type							
2439922	BH202	Not Given	2.00	2.45	D	Yellowish brown slightly gravelly very sandy CLAY		15	Sample was quartered, oven dried at 106 °C			
2439923	BH202	Not Given	6.30	6.60	D	Greyish brown CLAY		20	Sample was quartered, oven dried at 109 °C			
2439917	TP201	Not Given	0.70	Not Given	D	Orangish brown silty clayey very gravelly SAND		9.8	Sample was quartered, oven dried at 106 °C			
2439924	TP201	Not Given	1.80	Not Given	D	Brown CLAY		30	Sample was quartered, oven dried at 107.5 °C			
2439925	TP201	Not Given	2.60	Not Given	D	Grey slightly gravelly CLAY		29	Sample was quartered, oven dried at 107.5 °C			
2439918	TP203	Not Given	1.30	Not Given	D	Brownish grey slightly sandy very silty CLAY		27	Sample was quartered, oven dried at 106.6 °C			
2439926	TP204	Not Given	0.60	0.70	D	Yellowish brown slightly clayey gravelly SAND		6.4	Sample was quartered, oven dried at 109 °C			
2439927	TP206	Not Given	0.40	Not Given	D	Brown gravelly sandy CLAY		12	Sample was quartered, oven dried at 107.5 °C			
2439928	TP207	Not Given	0.70	Not Given	D	Yellowish brown slightly clayey slightly sandy COBBLES		2.7	Sample was quartered, oven dried at 109 °C			
2439919	TP208	Not Given	0.60	0.70	D	Orangish brown silty clayey very gravelly SAND		6.7	Sample was quartered, oven dried at 109 °C			

Comments:

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Signed:



Monika Siewior  
Reporting Specialist  
for and on behalf of i2 Analytical Ltd



# SUMMARY REPORT

## DETERMINATION OF WATER CONTENT

Tested in Accordance with: BS 1377-2: 1990: Clause 3.2

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

4041

Client: Hydrock Consultants Ltd  
Client Address: 2-4 Hawthorne Park, Holdenby Road,  
Spratton, Northamptonshire,  
NN6 8LD

Contact: Nathan Thompson  
Site Address: Begbroke

Client Reference: 19114  
Job Number: 22-86688  
Date Sampled: 09/09/2022  
Date Received: 26/09/2022  
Date Tested: 04/10 - 06/10/2022  
Sampled By: Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test results

Laboratory Reference	Hole No.	Sample				Description	Remarks	WC %	Sample preparation / Oven temperature at the time of testing			
		Reference	Depth Top m	Depth Base m	Type							
2439929	TP209	Not Given	0.60	Not Given	D	Brown silty clayey very gravelly SAND		7.0	Sample was quartered, oven dried at 107.2 °C			
2439930	TP209	Not Given	3.40	Not Given	D	Brown slightly gravelly CLAY		27	Sample was quartered, oven dried at 107.5 °C			
2439931	TP211	Not Given	0.60	Not Given	D	Brown gravelly sandy CLAY		12	Sample was quartered, oven dried at 107.5 °C			
2439932	TP211	Not Given	1.20	Not Given	D	Brown gravelly silty clayey SAND		13	Sample was quartered, oven dried at 106 °C			
2439933	TP212	Not Given	0.70	Not Given	D	Brown slightly clayey very gravelly SAND		5.8	Sample was quartered, oven dried at 109 °C			
2439934	TP213	Not Given	1.30	Not Given	D	Brown gravelly CLAY		11	Sample was quartered, oven dried at 107.5 °C			
2439935	TP215	Not Given	0.80	Not Given	D	Brown slightly gravelly very sandy CLAY		22	Sample was quartered, oven dried at 107.5 °C			
2439920	TP218	Not Given	0.70	Not Given	D	Yellowish brown sandy silty clayey GRAVEL		13	Sample was quartered, oven dried at 106.1 °C			
2439936	TP218	Not Given	3.20	Not Given	D	Yellowish brown slightly gravelly very sandy CLAY		23	Sample was quartered, oven dried at 107.5 °C			
2439937	TP219	Not Given	2.30	Not Given	D	Brownish grey slightly gravelly very sandy CLAY		14	Sample was quartered, oven dried at 107.5 °C			

Comments:

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Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test results

Laboratory Reference	Hole No.	Sample				Description	Remarks	WC %	Sample preparation / Oven temperature at the time of testing			
		Reference	Depth Top m	Depth Base m	Type							
2439938	TP220	Not Given	2.50	Not Given	D	Grey mottled brown gravelly silty clayey SAND		18	Sample was quartered, oven dried at 106 °C			
2439939	TP221	Not Given	0.70	Not Given	D	Brown clayey gravelly SAND		6.4	Sample was quartered, oven dried at 108 °C			
2439921	TP221	Not Given	2.20	2.30	D	Orangish brown clayey very gravelly SAND		8.3	Sample was quartered, oven dried at 109 °C			
2439940	TP223	Not Given	1.20	Not Given	D	Yellowish brown slightly clayey silty SAND and GRAVEL		7.8	Sample was quartered, oven dried at 109 °C			
2439941	TP224	Not Given	0.90	Not Given	D	Yellowish brown slightly gravelly sandy CLAY		9.8	Sample was quartered, oven dried at 109 °C			
2439942	TP225	Not Given	1.30	Not Given	D	Yellowish brown gravelly very sandy CLAY		20	Sample was quartered, oven dried at 107.5 °C			
2441113	WS245	Not Given	1.10	Not Given	D	Brownish grey slightly gravelly sandy CLAY		34	Sample was quartered, oven dried at 109 °C			
2439944	TP226	Not Given	1.40	Not Given	D	Greyish brown CLAY		28	Sample was quartered, oven dried at 106 °C			
2439945	TP227	Not Given	2.20	Not Given	D	Yellowish brown clayey very gravelly SAND		13	Sample was quartered, oven dried at 106 °C			
2439946	TP229	Not Given	1.20	Not Given	D	Yellowish brown slightly clayey gravelly SAND		5.9	Sample was quartered, oven dried at 109 °C			

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Sampled By: Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test results

Laboratory Reference	Hole No.	Sample				Description	Remarks	WC %	Sample preparation / Oven temperature at the time of testing			
		Reference	Depth Top m	Depth Base m	Type							
2439947	TP230	Not Given	1.00	Not Given	D	Brownish grey gravelly SAND		7.7	Sample was quartered, oven dried at 107.5 °C			
2439948	TP232	Not Given	0.50	Not Given	D	Brown CLAY		29	Sample was quartered, oven dried at 109 °C			
2439949	TP234	Not Given	0.70	0.90	D	Yellowish brown clayey very gravelly SAND		10	Sample was quartered, oven dried at 109 °C			
2439950	WS201	Not Given	1.70	Not Given	D	Brownish grey CLAY with fragments of chalk		28	Sample was quartered, oven dried at 107.6 °C			
2439951	WS205	Not Given	1.00	Not Given	D	Brownish grey slightly gravelly CLAY		38	Sample was quartered, oven dried at 107.6 °C			
2439952	WS207	Not Given	0.90	Not Given	D	Greyish brown slightly gravelly sandy CLAY		22	Sample was quartered, oven dried at 107.6 °C			
2439953	WS207	Not Given	1.80	Not Given	D	Brown gravelly slightly clayey SAND		12	Sample was quartered, oven dried at 107.6 °C			
2439954	WS214	Not Given	0.90	Not Given	D	Yellowish brown very gravelly sandy CLAY		7.8	Sample was quartered, oven dried at 107.6 °C			
2439955	WS215	Not Given	1.60	Not Given	D	Yellowish brown gravelly slightly sandy CLAY		15	Sample was quartered, oven dried at 107.6 °C			
2439956	WS217	Not Given	2.70	Not Given	D	Yellowish brown clayey gravelly SAND		4.4	Sample was quartered, oven dried at 107.6 °C			

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Sampled By: Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test results

Laboratory Reference	Hole No.	Sample				Description	Remarks	WC %	Sample preparation / Oven temperature at the time of testing			
		Reference	Depth Top m	Depth Base m	Type							
2439957	WS219	Not Given	1.10	Not Given	D	Yellowish brown very sandy CLAY		11	Sample was quartered, oven dried at 107.5 °C			
2439958	WS219	Not Given	2.00	Not Given	D	Yellowish brown to grey CLAY		26	Sample was quartered, oven dried at 107.5 °C			
2439959	WS219	Not Given	3.20	4.00	D	Grey CLAY		24	Sample was quartered, oven dried at 109 °C			
2439960	WS225	Not Given	1.20	2.00	D	Yellowish brown gravelly clayey SAND		6.7	Sample was quartered, oven dried at 107.8 °C			
2439961	WS227	Not Given	2.00	Not Given	D	Yellowish brown very gravelly SAND		7.5	Sample was quartered, oven dried at 109 °C			
2439962	WS233	Not Given	1.60	Not Given	D	Yellowish brown to grey slightly gravelly sandy CLAY		20	Sample was quartered, oven dried at 107.5 °C			
2439963	WS235	Not Given	1.00	Not Given	D	Grey very sandy CLAY		19	Sample was quartered, oven dried at 106 °C			
2439964	WS241	Not Given	2.80	Not Given	D	Yellowish brown slightly gravelly slightly sandy CLAY		30	Sample was quartered, oven dried at 106 °C			
2439965	WS242	Not Given	1.60	Not Given	D	Brown slightly gravelly sandy CLAY		23	Sample was quartered, oven dried at 107.5 °C			

Comments:

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4041

# TEST CERTIFICATE

## DETERMINATION OF PARTICLE SIZE DISTRIBUTION

Tested in Accordance with: BS 1377-2: 1990

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

Client: Hydrock Consultants Ltd  
Client Address: 2-4 Hawthorne Park, Holdenby Road,  
Spratton, Northamptonshire,  
NN6 8LD  
Contact: Nathan Thompson  
Site Address: Begbroke

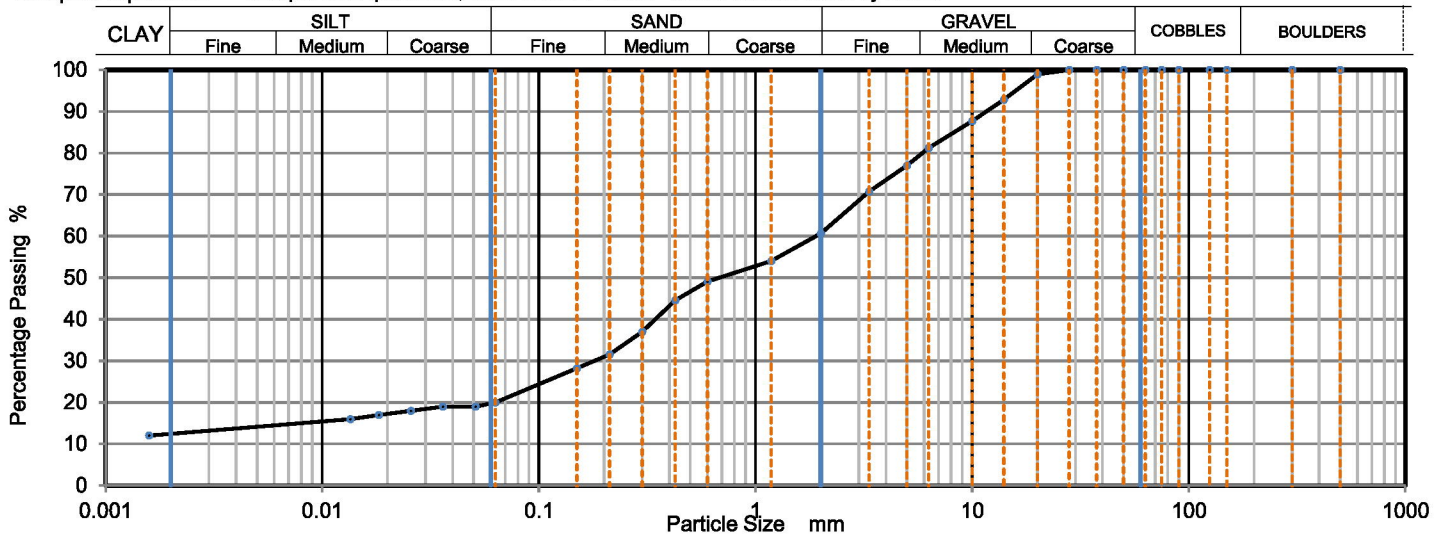
Client Reference: 19114  
Job Number: 22-86688  
Date Sampled: 09/09/2022  
Date Received: 26/09/2022  
Date Tested: 05/10/2022  
Sampled By: Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test Results:

Laboratory Reference: 2439917  
Hole No.: TP201  
Sample Reference: Not Given  
Sample Description: Orangish brown silty clayey very gravelly SAND  
Sample Preparation: Sample was quartered, oven dried at 106.0 °C and broken down by hand.

Depth Top [m]: 0.70  
Depth Base [m]: Not Given  
Sample Type: D



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
500	100	0.0630	20
300	100	0.0509	19
150	100	0.0360	19
125	100	0.0256	18
90	100	0.0182	17
75	100	0.0135	16
63	100	0.0016	12
50	100		
37.5	100		
28	100		
20	99		
14	93		
10	88		
6.3	81		
5	77		
3.35	71		
2	61	Particle density (measured) 2.92 Mg/m3	
1.18	54		
0.6	49		
0.425	45		
0.3	37		
0.212	32		
0.15	28		
0.063	20		

Sample Proportions	% dry mass
Very coarse	0
Gravel	39
Sand	40
Silt	9
Clay	12

Grading Analysis		
D100	mm	28
D60	mm	1.9
D30	mm	0.181
D10	mm	
Uniformity Coefficient		> 1200
Curvature Coefficient		

Uniformity Coefficient calculated in accordance with BS EN ISO 14688-2:2018

Note: Tested in Accordance with BS1377:Part 2:1990, clauses 9.2 and 9.5

### Remarks:

Signed:



Monika Siewior  
Reporting Specialist  
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# TEST CERTIFICATE

## DETERMINATION OF PARTICLE SIZE DISTRIBUTION

Tested in Accordance with: BS 1377-2: 1990

i2 Analytical Ltd  
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Northampton NN4 7EB



Environmental Science

4041

Client: Hydrock Consultants Ltd  
Client Address: 2-4 Hawthorne Park, Holdenby Road,  
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NN6 8LD  
Contact: Nathan Thompson  
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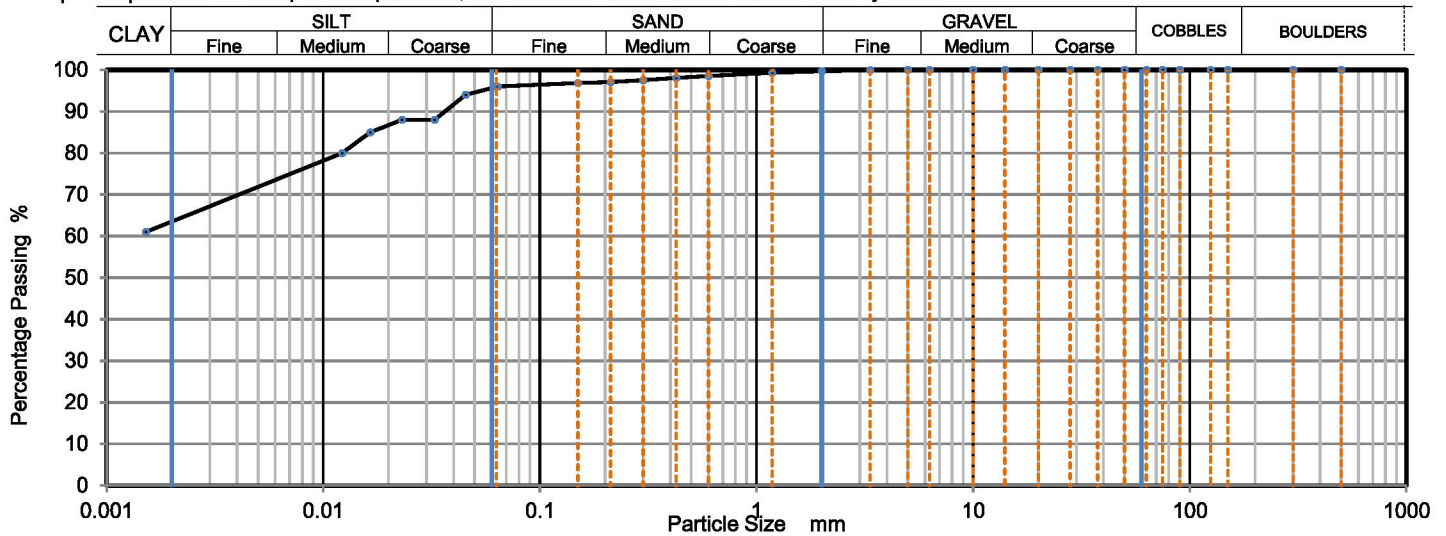
Client Reference: 19114  
Job Number: 22-86688  
Date Sampled: 09/09/2022  
Date Received: 26/09/2022  
Date Tested: 05/10/2022  
Sampled By: Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test Results:

Laboratory Reference: 2439918  
Hole No.: TP203  
Sample Reference: Not Given  
Sample Description: Brownish grey slightly sandy very silty CLAY  
Sample Preparation: Sample was quartered, oven dried at 106.6 °C and broken down by hand.

Depth Top [m]: 1.30  
Depth Base [m]: Not Given  
Sample Type: D



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
500	100	0.0638	96
300	100	0.0455	94
150	100	0.0326	88
125	100	0.0231	88
90	100	0.0164	85
75	100	0.0122	80
63	100	0.0015	61
50	100		
37.5	100		
28	100		
20	100		
14	100		
10	100		
6.3	100		
5	100		
3.35	100		
2	100	Particle density (measured) 2.72 Mg/m3	
1.18	99		
0.6	99		
0.425	98		
0.3	98		
0.212	97		
0.15	97		
0.063	96		

Sample Proportions	% dry mass
Very coarse	0
Gravel	0
Sand	3
Silt	34
Clay	63

Grading Analysis		
D100	mm	5
D60	mm	
D30	mm	
D10	mm	
Uniformity Coefficient		N/A
Curvature Coefficient		

Uniformity Coefficient calculated in accordance with BS EN ISO 14688-2:2018

Note: Tested in Accordance with BS1377:Part 2:1990, clauses 9.2 and 9.5

### Remarks:

### Signed:

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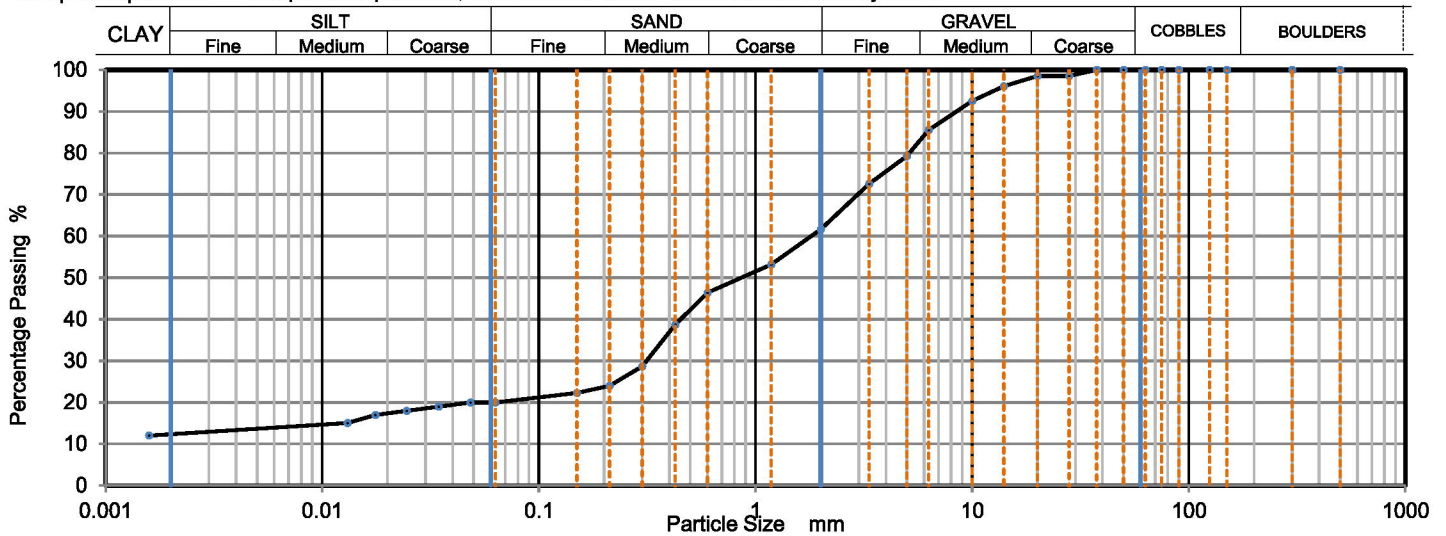
Client Reference: 19114  
Job Number: 22-86688  
Date Sampled: 09/09/2022  
Date Received: 26/09/2022  
Date Tested: 05/10/2022  
Sampled By: Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test Results:

Laboratory Reference: 2439919  
Hole No.: TP208  
Sample Reference: Not Given  
Sample Description: Orangish brown silty clayey very gravelly SAND  
Sample Preparation: Sample was quartered, oven dried at 109.0 °C and broken down by hand.

Depth Top [m]: 0.60  
Depth Base [m]: 0.70  
Sample Type: D



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
500	100	0.0630	20
300	100	0.0483	20
150	100	0.0344	19
125	100	0.0245	18
90	100	0.0176	17
75	100	0.0131	15
63	100	0.0016	12
50	100		
37.5	100		
28	99		
20	99		
14	96		
10	93		
6.3	86		
5	79		
3.35	73		
2	62	Particle density (measured) 2.92 Mg/m <sup>3</sup>	
1.18	53		
0.6	46		
0.425	39		
0.3	29		
0.212	24		
0.15	22		
0.063	20		

Sample Proportions	% dry mass
Very coarse	0
Gravel	38
Sand	41
Silt	9
Clay	12

Grading Analysis		
D100	mm	37.5
D60	mm	1.81
D30	mm	0.314
D10	mm	
Uniformity Coefficient		> 1100
Curvature Coefficient		

Uniformity Coefficient calculated in accordance with BS EN ISO 14688-2:2018

Note: Tested in Accordance with BS1377:Part 2:1990, clauses 9.2 and 9.5

### Remarks:

### Signed:

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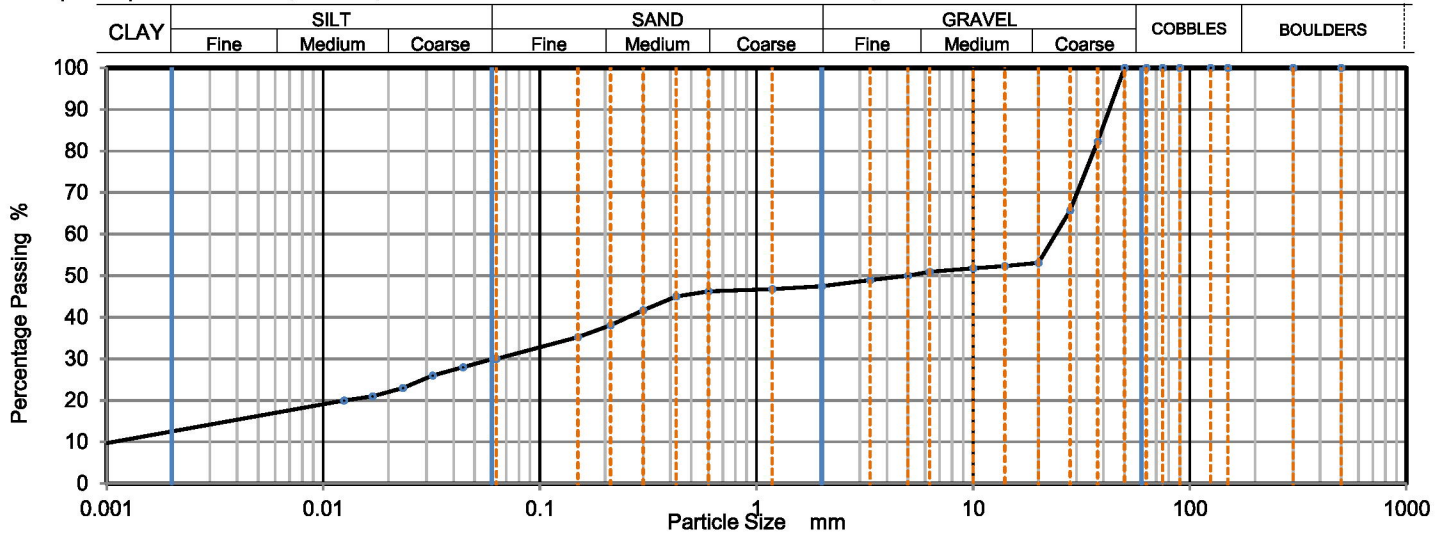
Client Reference: 19114  
Job Number: 22-86688  
Date Sampled: 09/09/2022  
Date Received: 26/09/2022  
Date Tested: 06/10/2022  
Sampled By: Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test Results:

Laboratory Reference: 2439920  
Hole No.: TP218  
Sample Reference: Not Given  
Sample Description: Yellowish brown sandy silty clayey GRAVEL  
Sample Preparation: Sample was quartered, oven dried at 106.1 °C and broken down by hand.

Depth Top [m]: 0.70  
Depth Base [m]: Not Given  
Sample Type: D



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
500	100	0.0608	30
300	100	0.0441	28
150	100	0.0320	26
125	100	0.0233	23
90	100	0.0168	21
75	100	0.0125	20
63	100	0.0008	9
50	100		
37.5	82		
28	66		
20	53		
14	52		
10	52		
6.3	51		
5	50		
3.35	49		
2	48	Particle density (measured) 2.74 Mg/m3	
1.18	47		
0.6	46		
0.425	45		
0.3	42		
0.212	38		
0.15	35		
0.063	30		

Sample Proportions	% dry mass
Very coarse	0
Gravel	53
Sand	17
Silt	17
Clay	13

Grading Analysis		
D100	mm	50
D60	mm	24.1
D30	mm	0.0573
D10	mm	0.00103
Uniformity Coefficient		23000
Curvature Coefficient		0.13

Uniformity Coefficient calculated in accordance with BS EN ISO 14688-2:2018

Note: Tested in Accordance with BS1377:Part 2:1990, clauses 9.2 and 9.5

### Remarks:

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Date Tested: 05/10/2022  
Sampled By: Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test Results:

Laboratory Reference: 2439921

Hole No.: TP221

Sample Reference: Not Given

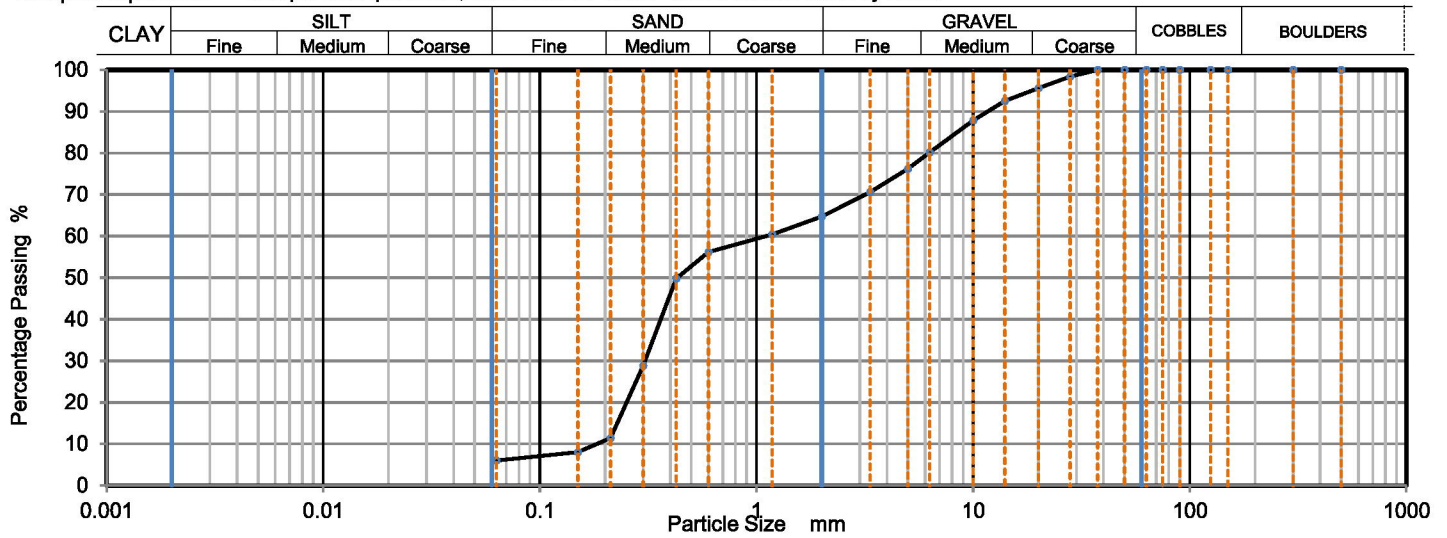
Sample Description: Orangish brown clayey very gravelly SAND

Sample Preparation: Sample was quartered, oven dried at 109.0 °C and broken down by hand.

Depth Top [m]: 2.20

Depth Base [m]: 2.30

Sample Type: D



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
500	100		
300	100		
150	100		
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	100		
28	98		
20	96		
14	93		
10	88		
6.3	80		
5	76		
3.35	71		
2	65		
1.18	60		
0.6	56		
0.425	50		
0.3	29		
0.212	11		
0.15	8		
0.063	6		

Sample Proportions	% dry mass
Very coarse	0
Gravel	35
Sand	59
Fines <0.063mm	6

Grading Analysis		
D100	mm	37.5
D60	mm	1.11
D30	mm	0.306
D10	mm	0.183
Uniformity Coefficient		6.1
Curvature Coefficient		0.46

Uniformity Coefficient calculated in accordance with BS EN ISO 14688-2:2018

Note: Tested in Accordance with BS1377:Part 2:1990, clause 9.2

### Remarks:

Signed:

Monika Siewior  
Reporting Specialist  
for and on behalf of i2 Analytical Ltd

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# TEST CERTIFICATE

## DETERMINATION OF PARTICLE SIZE DISTRIBUTION

Tested in Accordance with: BS 1377-2: 1990

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

4041

Client: Hydrock Consultants Ltd  
Client Address: 2-4 Hawthorne Park, Holdenby Road,  
Spratton, Northamptonshire,  
NN6 8LD  
Contact: Nathan Thompson  
Site Address: Begbroke

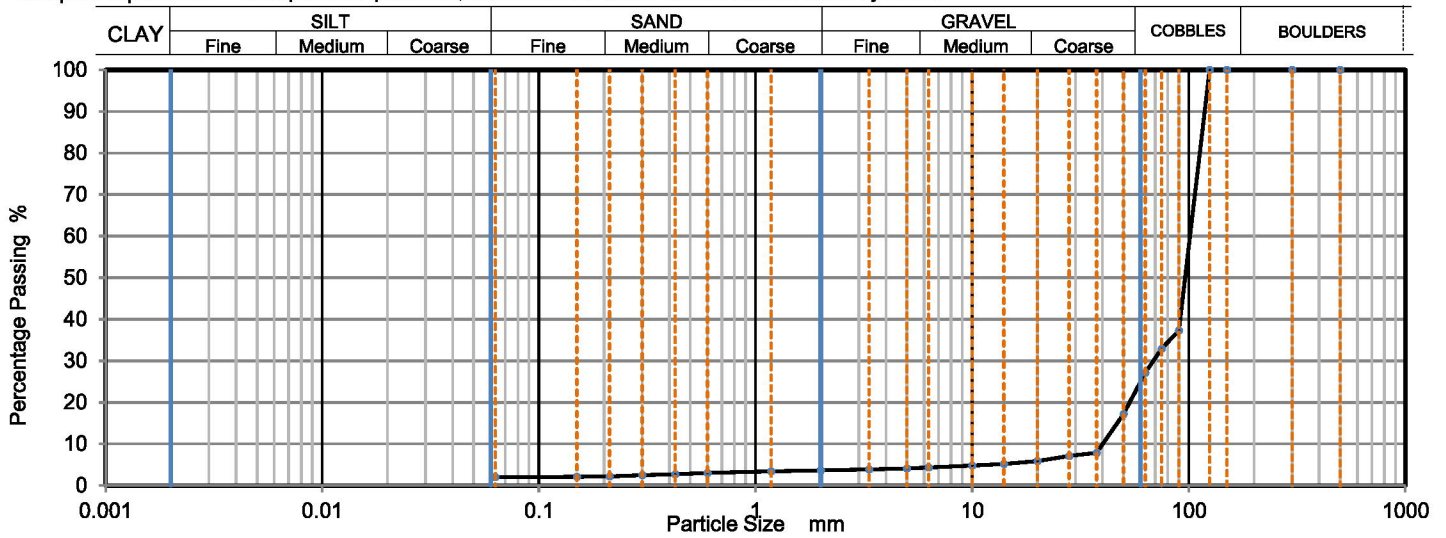
Client Reference: 19114  
Job Number: 22-86688  
Date Sampled: 09/09/2022  
Date Received: 26/09/2022  
Date Tested: 05/10/2022  
Sampled By: Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test Results:

Laboratory Reference: 2439928  
Hole No.: TP207  
Sample Reference: Not Given  
Sample Description: Yellowish brown slightly clayey slightly sandy COBBLES  
Sample Preparation: Sample was quartered, oven dried at 109.0 °C and broken down by hand.

Depth Top [m]: 0.70  
Depth Base [m]: Not Given  
Sample Type: D



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
500	100		
300	100		
150	100		
125	100		
90	37		
75	33		
63	27		
50	17		
37.5	8		
28	7		
20	6		
14	5		
10	5		
6.3	4		
5	4		
3.35	4		
2	4		
1.18	3		
0.6	3		
0.425	3		
0.3	3		
0.212	2		
0.15	2		
0.063	2		

Sample Proportions	% dry mass
Very coarse	73
Gravel	23
Sand	2
Fines <0.063mm	2

Grading Analysis	
D100	mm 125
D60	mm 101
D30	mm 68.7
D10	mm 40
Uniformity Coefficient	2.5
Curvature Coefficient	1.2

Uniformity Coefficient calculated in accordance with BS EN ISO 14688-2:2018

Note: Tested in Accordance with BS1377:Part 2:1990, clause 9.2

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Site Address: Begbroke

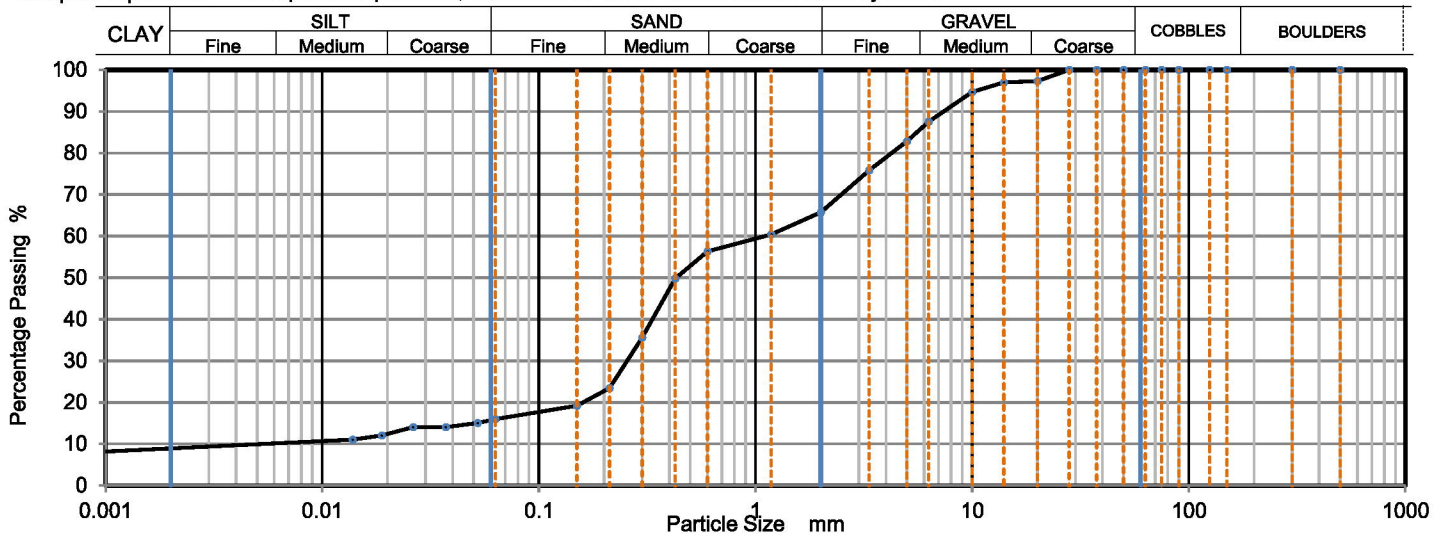
Client Reference: 19114  
Job Number: 22-86688  
Date Sampled: 09/09/2022  
Date Received: 26/09/2022  
Date Tested: 06/10/2022  
Sampled By: Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test Results:

Laboratory Reference: 2439929  
Hole No.: TP209  
Sample Reference: Not Given  
Sample Description: Brown silty clayey very gravelly SAND  
Sample Preparation: Sample was quartered, oven dried at 107.2 °C and broken down by hand.

Depth Top [m]: 0.60  
Depth Base [m]: Not Given  
Sample Type: D



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
500	100	0.0630	16
300	100	0.0522	15
150	100	0.0371	14
125	100	0.0263	14
90	100	0.0188	12
75	100	0.0138	11
63	100	0.009	8
50	100		
37.5	100		
28	100		
20	97		
14	97		
10	95		
6.3	88		
5	83		
3.35	76		
2	66	Particle density (assumed) 2.65 Mg/m3	
1.18	60		
0.6	56		
0.425	50		
0.3	36		
0.212	23		
0.15	19		
0.063	16		

Sample Proportions	% dry mass
Very coarse	0
Gravel	34
Sand	49
Silt	8
Clay	9

Grading Analysis		
D100	mm	28
D60	mm	1.1
D30	mm	0.256
D10	mm	0.00626
Uniformity Coefficient		180
Curvature Coefficient		9.5

Uniformity Coefficient calculated in accordance with BS EN ISO 14688-2:2018

Note: Tested in Accordance with BS1377:Part 2:1990, clauses 9.2 and 9.5

### Remarks:

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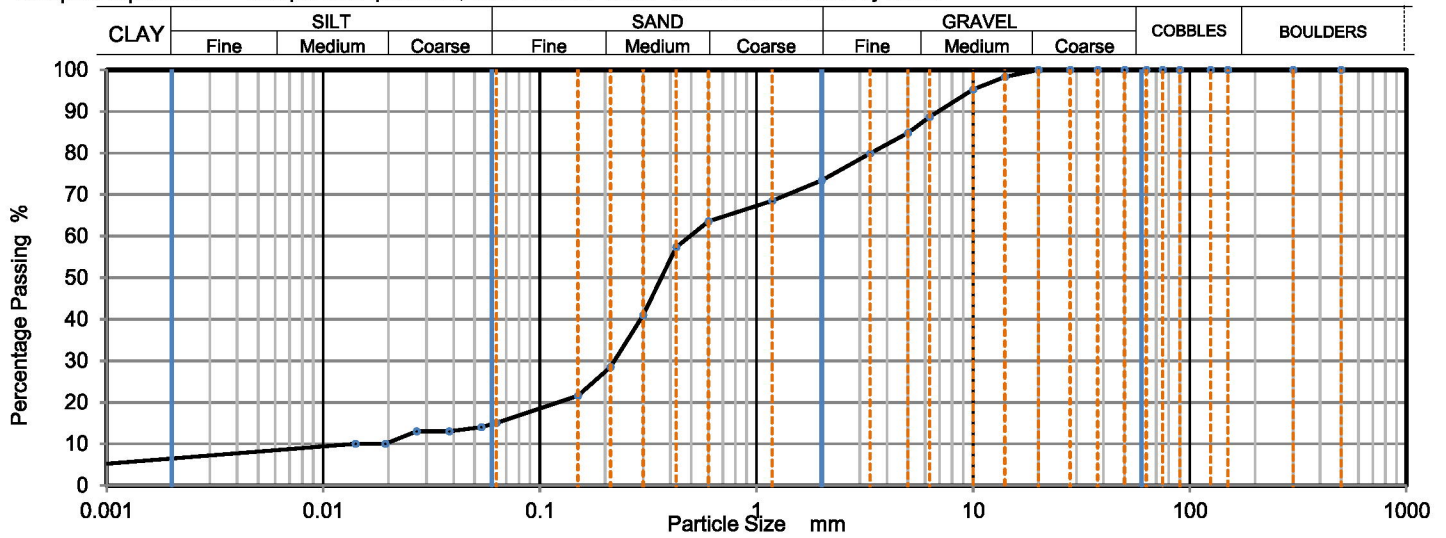
Client Reference: 19114  
Job Number: 22-86688  
Date Sampled: 09/09/2022  
Date Received: 26/09/2022  
Date Tested: 06/10/2022  
Sampled By: Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test Results:

Laboratory Reference: 2439932  
Hole No.: TP211  
Sample Reference: Not Given  
Sample Description: Brown gravelly silty clayey SAND  
Sample Preparation: Sample was quartered, oven dried at 106.0 °C and broken down by hand.

Depth Top [m]: 1.20  
Depth Base [m]: Not Given  
Sample Type: D



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
500	100	0.0630	15
300	100	0.0537	14
150	100	0.0382	13
125	100	0.0270	13
90	100	0.0193	10
75	100	0.0141	10
63	100	0.0009	5
50	100		
37.5	100		
28	100		
20	100		
14	98		
10	95		
6.3	89		
5	85		
3.35	80		
2	73	Particle density (assumed) 2.65 Mg/m <sup>3</sup>	
1.18	69		
0.6	64		
0.425	57		
0.3	41		
0.212	29		
0.15	22		
0.063	15		

Sample Proportions	% dry mass
Very coarse	0
Gravel	27
Sand	58
Silt	9
Clay	6

Grading Analysis		
D100	mm	20
D60	mm	0.492
D30	mm	0.221
D10	mm	
Uniformity Coefficient		N/A
Curvature Coefficient		

Uniformity Coefficient calculated in accordance with BS EN ISO 14688-2:2018

Note: Tested in Accordance with BS1377:Part 2:1990, clauses 9.2 and 9.5

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Environmental Science

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Contact: Nathan Thompson  
Site Address: Begbroke

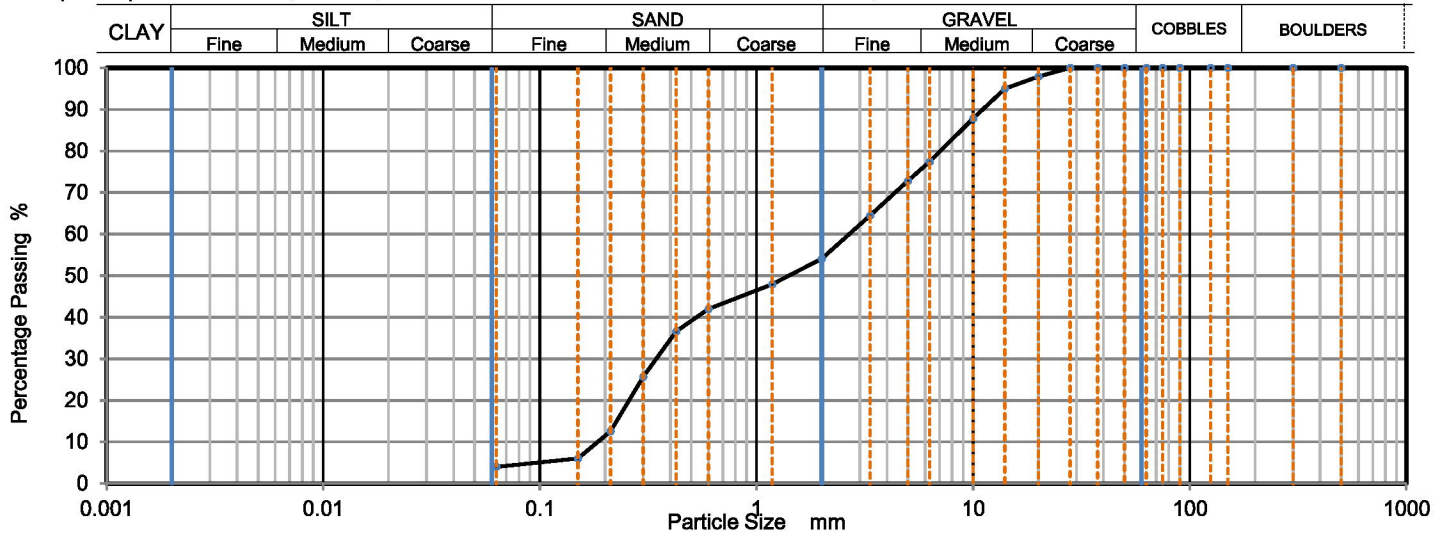
Client Reference: 19114  
Job Number: 22-86688  
Date Sampled: 09/09/2022  
Date Received: 26/09/2022  
Date Tested: 06/10/2022  
Sampled By: Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test Results:

Laboratory Reference: 2439933  
Hole No.: TP212  
Sample Reference: Not Given  
Sample Description: Brown slightly clayey very gravelly SAND  
Sample Preparation: Sample was quartered, oven dried at 109.0 °C and broken down by hand.

Depth Top [m]: 0.70  
Depth Base [m]: Not Given  
Sample Type: D



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
500	100		
300	100		
150	100		
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	98		
14	95		
10	88		
6.3	77		
5	73		
3.35	65		
2	54		
1.18	48		
0.6	42		
0.425	37		
0.3	26		
0.212	13		
0.15	6		
0.063	4		

Sample Proportions	% dry mass
Very coarse	0
Gravel	46
Sand	50
Fines <0.063mm	4

Grading Analysis		
D100	mm	28
D60	mm	2.68
D30	mm	0.344
D10	mm	0.185
Uniformity Coefficient		14
Curvature Coefficient		0.24

Uniformity Coefficient calculated in accordance with BS EN ISO 14688-2:2018

Note: Tested in Accordance with BS1377:Part 2:1990, clause 9.2

### Remarks:

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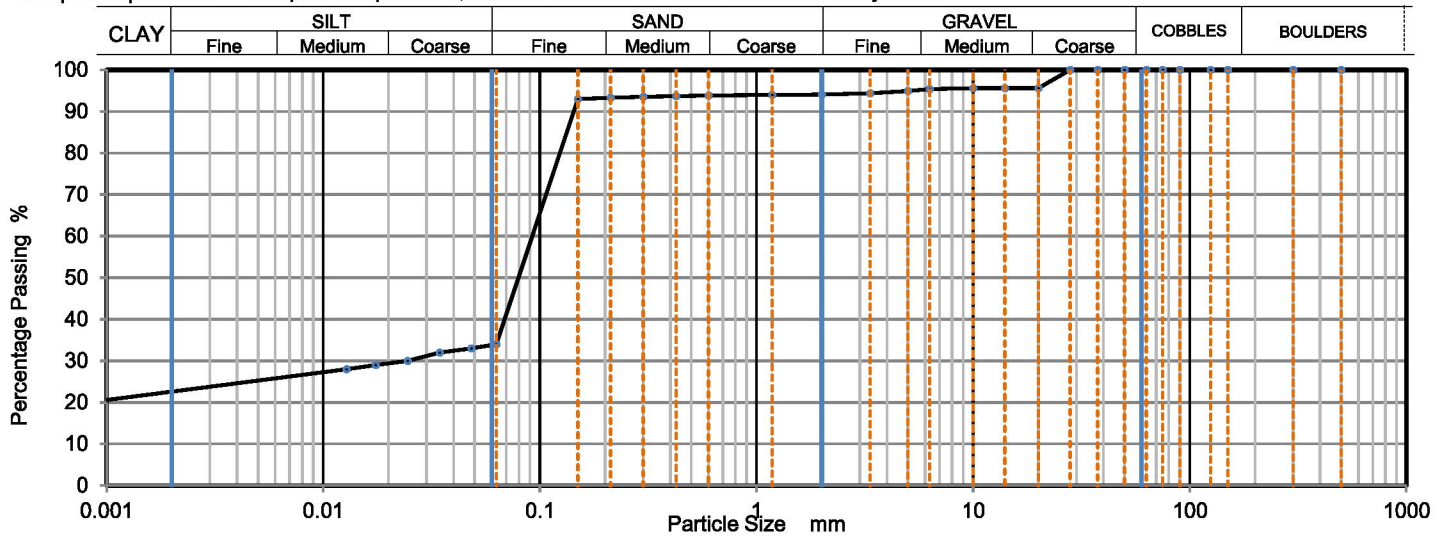
Client Reference: 19114  
Job Number: 22-86688  
Date Sampled: 09/09/2022  
Date Received: 26/09/2022  
Date Tested: 06/10/2022  
Sampled By: Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test Results:

Laboratory Reference: 2439938  
Hole No.: TP220  
Sample Reference: Not Given  
Sample Description: Grey mottled brown gravelly silty clayey SAND  
Sample Preparation: Sample was quartered, oven dried at 106.0 °C and broken down by hand.

Depth Top [m]: 2.50  
Depth Base [m]: Not Given  
Sample Type: D



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
500	100	0.0630	34
300	100	0.0483	33
150	100	0.0344	32
125	100	0.0245	30
90	100	0.0174	29
75	100	0.0128	28
63	100	0.0098	27
50	100	0.0075	26
37.5	100	0.0058	25
28	100	0.0045	24
20	96	0.0035	23
14	96	0.0028	22
10	96	0.0022	21
6.3	95	0.0017	20
5	95	0.0013	19
3.35	94	0.0010	18
2	94	0.0008	17
1.18	94	0.0006	16
0.6	94	0.0005	15
0.425	94	0.0004	14
0.3	94	0.0003	13
0.212	93	0.0002	12
0.15	93	0.0001	11
0.063	34		

Sample Proportions	% dry mass
Very coarse	0
Gravel	6
Sand	60
Silt	11
Clay	23

Grading Analysis		
D100	mm	28
D60	mm	0.0924
D30	mm	0.0213
D10	mm	
Uniformity Coefficient		> 110
Curvature Coefficient		

Uniformity Coefficient calculated in accordance with BS EN ISO 14688-2:2018

Note: Tested in Accordance with BS1377:Part 2:1990, clauses 9.2 and 9.5

### Remarks:

Signed:



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Reporting Specialist  
for and on behalf of i2 Analytical Ltd

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# TEST CERTIFICATE

## DETERMINATION OF PARTICLE SIZE DISTRIBUTION

Tested in Accordance with: BS 1377-2: 1990

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

4041

Client: Hydrock Consultants Ltd  
Client Address: 2-4 Hawthorne Park, Holdenby Road,  
Spratton, Northamptonshire,  
NN6 8LD  
Contact: Nathan Thompson  
Site Address: Begbroke

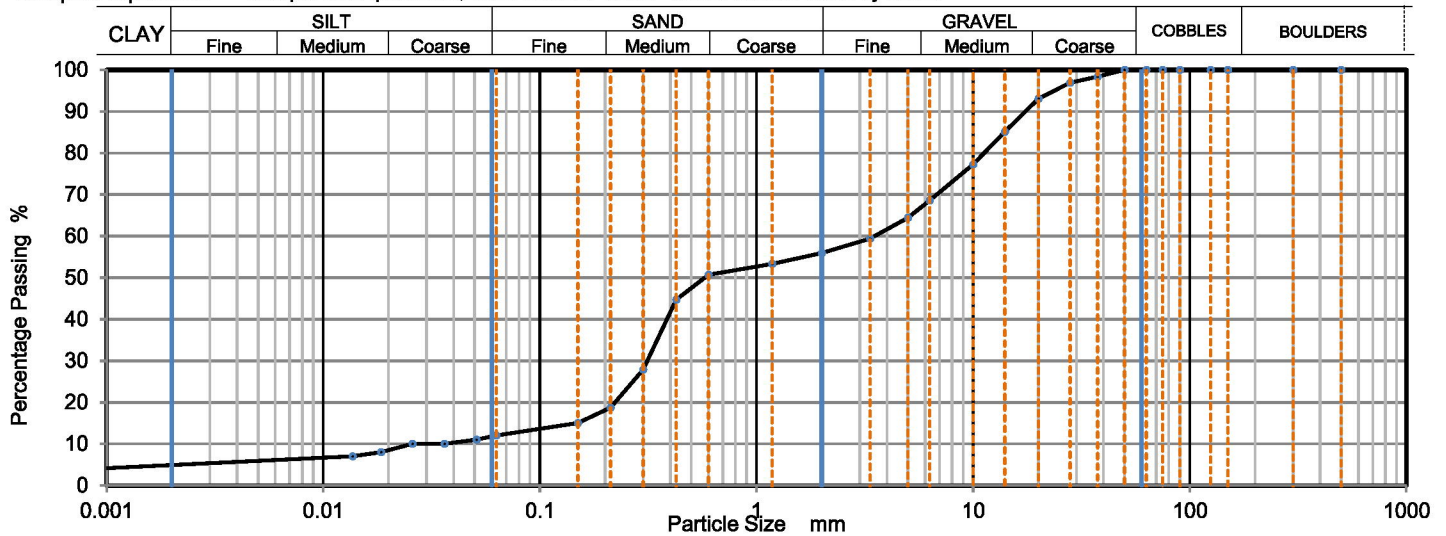
Client Reference: 19114  
Job Number: 22-86688  
Date Sampled: 09/09/2022  
Date Received: 26/09/2022  
Date Tested: 05/10/2022  
Sampled By: Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test Results:

Laboratory Reference: 2439940  
Hole No.: TP223  
Sample Reference: Not Given  
Sample Description: Yellowish brown slightly clayey silty SAND and GRAVEL  
Sample Preparation: Sample was quartered, oven dried at 109.0 °C and broken down by hand.

Depth Top [m]: 1.20  
Depth Base [m]: Not Given  
Sample Type: D



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
500	100	0.0630	12
300	100	0.0509	11
150	100	0.0363	10
125	100	0.0258	10
90	100	0.0185	8
75	100	0.0136	7
63	100	0.009	4
50	100		
37.5	98		
28	97		
20	93		
14	85		
10	77		
6.3	69		
5	64		
3.35	59		
2	56	Particle density (assumed) 2.65 Mg/m3	
1.18	53		
0.6	51		
0.425	45		
0.3	28		
0.212	19		
0.15	15		
0.063	12		

Sample Proportions	% dry mass
Very coarse	0
Gravel	44
Sand	44
Silt	7
Clay	5

Grading Analysis		
D100	mm	50
D60	mm	3.5
D30	mm	0.313
D10	mm	0.0339
Uniformity Coefficient		100
Curvature Coefficient		0.82

Uniformity Coefficient calculated in accordance with BS EN ISO 14688-2:2018

Note: Tested in Accordance with BS1377:Part 2:1990, clauses 9.2 and 9.5

### Remarks:

### Signed:

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Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

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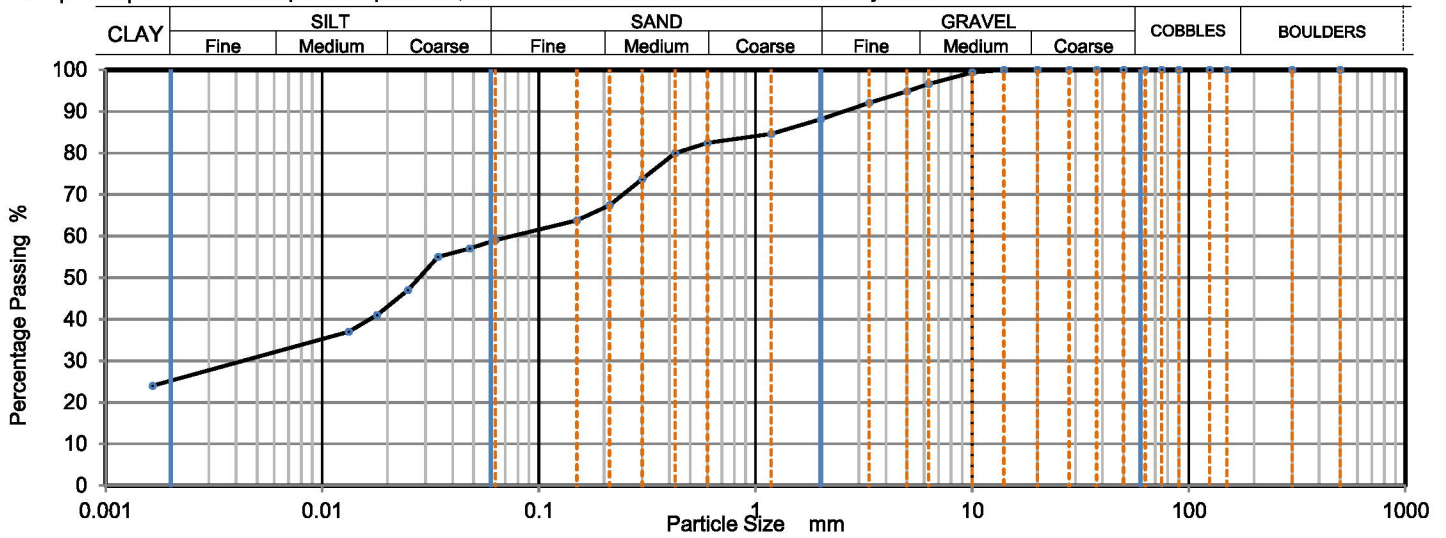
Client Reference: 19114  
Job Number: 22-86688  
Date Sampled: 09/09/2022  
Date Received: 26/09/2022  
Date Tested: 04/10/2022  
Sampled By: Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test Results:

Laboratory Reference: 2439943  
Hole No.: TP226  
Sample Reference: Not Given  
Sample Description: Brown gravelly very sandy very clayey SILT  
Sample Preparation: Sample was quartered, oven dried at 106.0 °C and broken down by hand.

Depth Top [m]: 0.80  
Depth Base [m]: Not Given  
Sample Type: D



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
500	100	0.0630	59
300	100	0.0480	57
150	100	0.0342	55
125	100	0.0248	47
90	100	0.0179	41
75	100	0.0132	37
63	100	0.0016	24
50	100		
37.5	100		
28	100		
20	100		
14	100		
10	99		
6.3	97		
5	95		
3.35	92		
2	88	Particle density (assumed) 2.65 Mg/m <sup>3</sup>	
1.18	85		
0.6	82		
0.425	80		
0.3	74		
0.212	67		
0.15	64		
0.063	59		

Sample Proportions	% dry mass
Very coarse	0
Gravel	12
Sand	29
Silt	34
Clay	25

Grading Analysis		
D100	mm	14
D60	mm	0.0727
D30	mm	0.00427
D10	mm	
Uniformity Coefficient		> 44
Curvature Coefficient		

Uniformity Coefficient calculated in accordance with BS EN ISO 14688-2:2018

Note: Tested in Accordance with BS1377:Part 2:1990, clauses 9.2 and 9.5

### Remarks:

### Signed:



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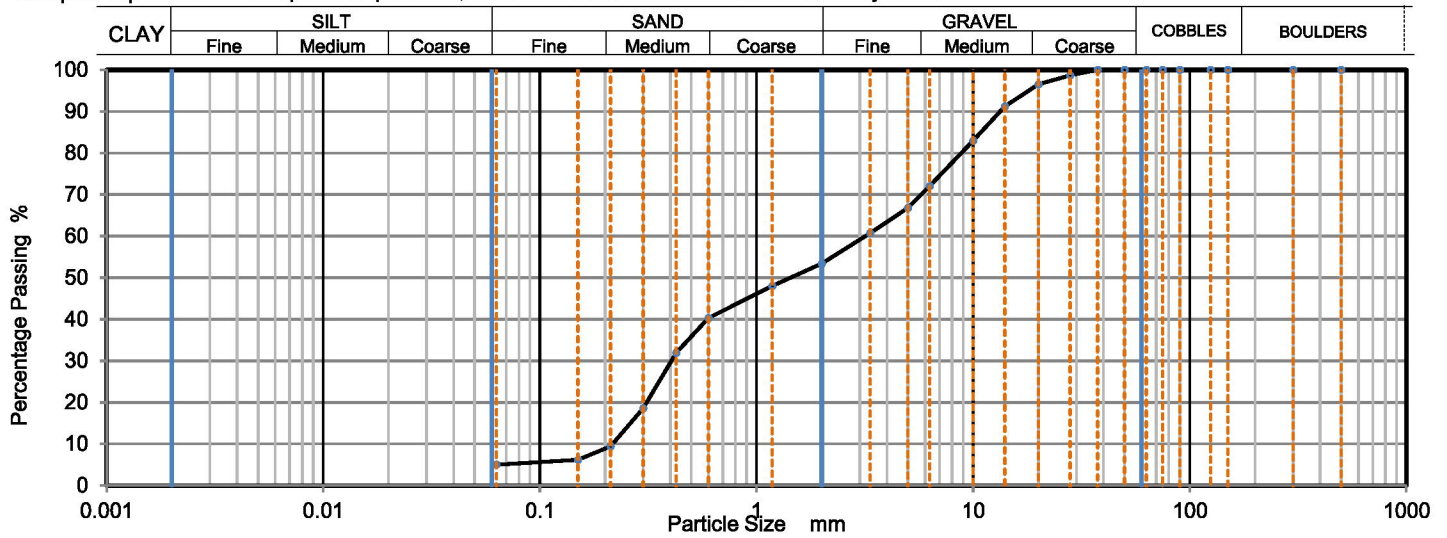
Client Reference: 19114  
Job Number: 22-86688  
Date Sampled: 09/09/2022  
Date Received: 26/09/2022  
Date Tested: 06/10/2022  
Sampled By: Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test Results:

Laboratory Reference: 2439945  
Hole No.: TP227  
Sample Reference: Not Given  
Sample Description: Yellowish brown clayey very gravelly SAND  
Sample Preparation: Sample was quartered, oven dried at 106.0 °C and broken down by hand.

Depth Top [m]: 2.20  
Depth Base [m]: Not Given  
Sample Type: D



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
500	100		
300	100		
150	100		
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	100		
28	99		
20	97		
14	91		
10	83		
6.3	72		
5	67		
3.35	61		
2	53		
1.18	48		
0.6	40		
0.425	32		
0.3	19		
0.212	9		
0.15	6		
0.063	5		

Sample Proportions	% dry mass
Very coarse	0
Gravel	47
Sand	48
Fines <0.063mm	5

Grading Analysis		
D100	mm	37.5
D60	mm	3.18
D30	mm	0.404
D10	mm	0.217
Uniformity Coefficient		15
Curvature Coefficient		0.24

Uniformity Coefficient calculated in accordance with BS EN ISO 14688-2:2018

Note: Tested in Accordance with BS1377:Part 2:1990, clause 9.2

### Remarks:

### Signed:



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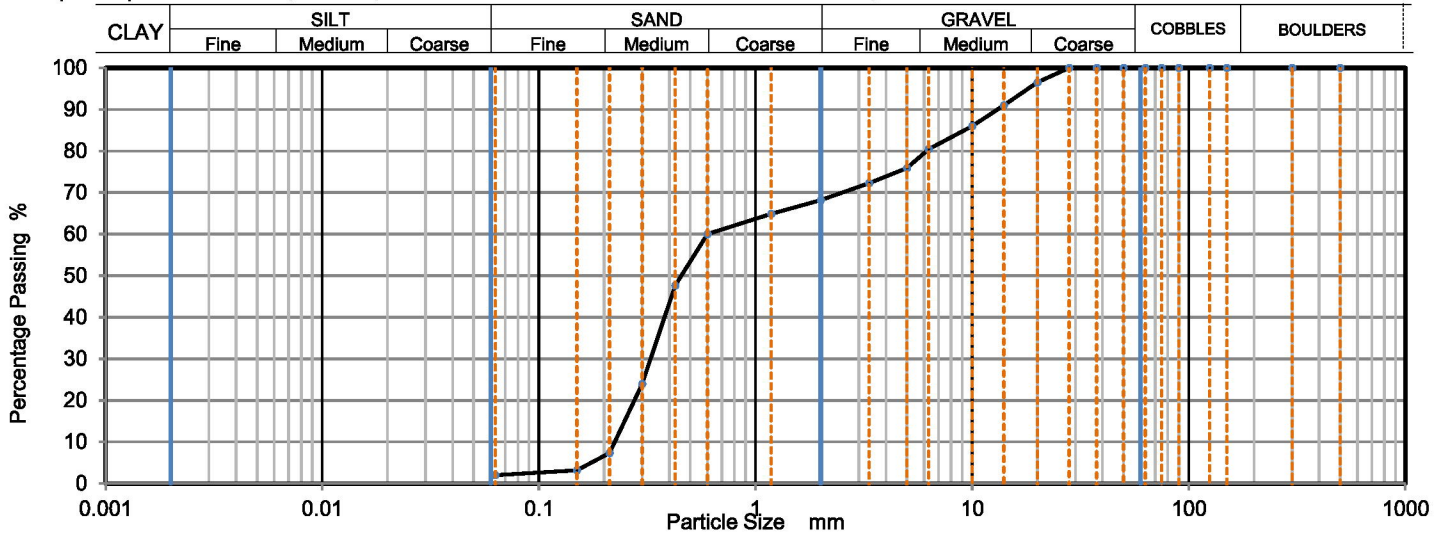
Client Reference: 19114  
Job Number: 22-86688  
Date Sampled: 09/09/2022  
Date Received: 26/09/2022  
Date Tested: 06/10/2022  
Sampled By: Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test Results:

Laboratory Reference: 2439946  
Hole No.: TP229  
Sample Reference: Not Given  
Sample Description: Yellowish brown slightly clayey gravelly SAND  
Sample Preparation: Sample was quartered, oven dried at 109.0 °C and broken down by hand.

Depth Top [m]: 1.20  
Depth Base [m]: Not Given  
Sample Type: D



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
500	100		
300	100		
150	100		
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	97		
14	91		
10	86		
6.3	80		
5	76		
3.35	72		
2	68		
1.18	65		
0.6	60		
0.425	48		
0.3	24		
0.212	7		
0.15	3		
0.063	2		

Sample Proportions	% dry mass
Very coarse	0
Gravel	32
Sand	66
Fines <0.063mm	2

Grading Analysis		
D100	mm	28
D60	mm	0.6
D30	mm	0.328
D10	mm	0.224
Uniformity Coefficient		2.7
Curvature Coefficient		0.8

Uniformity Coefficient calculated in accordance with BS EN ISO 14688-2:2018

Note: Tested in Accordance with BS1377:Part 2:1990, clause 9.2

### Remarks:

### Signed:

Monika Siewior  
Reporting Specialist  
for and on behalf of i2 Analytical Ltd

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4041

Client: Hydrock Consultants Ltd  
Client Address: 2-4 Hawthorne Park, Holdenby Road,  
Spratton, Northamptonshire,  
NN6 8LD  
Contact: Nathan Thompson  
Site Address: Begbroke

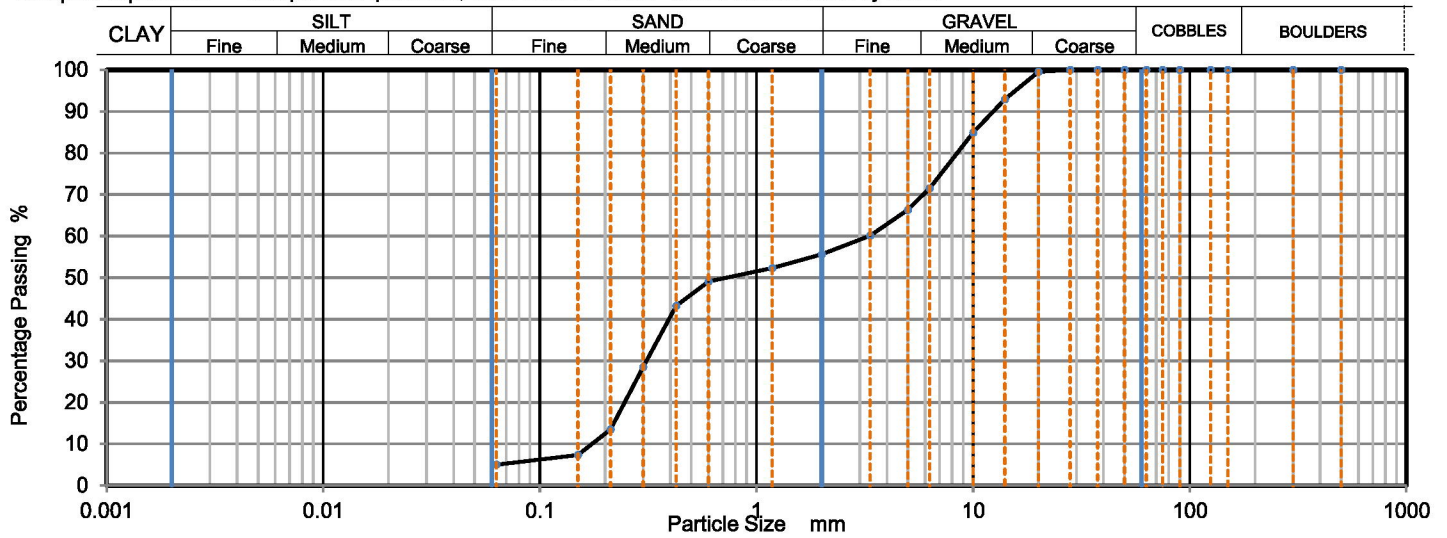
Client Reference: 19114  
Job Number: 22-86688  
Date Sampled: 09/09/2022  
Date Received: 26/09/2022  
Date Tested: 06/10/2022  
Sampled By: Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test Results:

Laboratory Reference: 2439949  
Hole No.: TP234  
Sample Reference: Not Given  
Sample Description: Yellowish brown clayey very gravelly SAND  
Sample Preparation: Sample was quartered, oven dried at 109.0 °C and broken down by hand.

Depth Top [m]: 0.70  
Depth Base [m]: 0.90  
Sample Type: D



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
500	100		
300	100		
150	100		
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	100		
14	93		
10	85		
6.3	72		
5	66		
3.35	60		
2	56		
1.18	52		
0.6	49		
0.425	43		
0.3	29		
0.212	14		
0.15	7		
0.063	5		

Sample Proportions	% dry mass
Very coarse	0
Gravel	44
Sand	50
Fines <0.063mm	5

Grading Analysis		
D100	mm	28
D60	mm	3.31
D30	mm	0.311
D10	mm	0.174
Uniformity Coefficient		19
Curvature Coefficient		0.17

Uniformity Coefficient calculated in accordance with BS EN ISO 14688-2:2018

Note: Tested in Accordance with BS1377:Part 2:1990, clause 9.2

### Remarks:

Signed:



Monika Siewior  
Reporting Specialist  
for and on behalf of i2 Analytical Ltd

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4041

**TEST CERTIFICATE****DETERMINATION OF DRY DENSITY/MOISTURE  
CONTENT RELATIONSHIP METHOD USING  
4.5 KG RAMMER**

Tested in Accordance with: BS 1377-4: 1990

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB

Environmental Science

Client: Hydrock Consultants Ltd  
 Client Address: 2-4 Hawthorne Park, Holdenby Road,  
 Spratton, Northamptonshire,  
 NN6 8LD  
 Contact: Nathan Thompson  
 Site Address: Begbroke

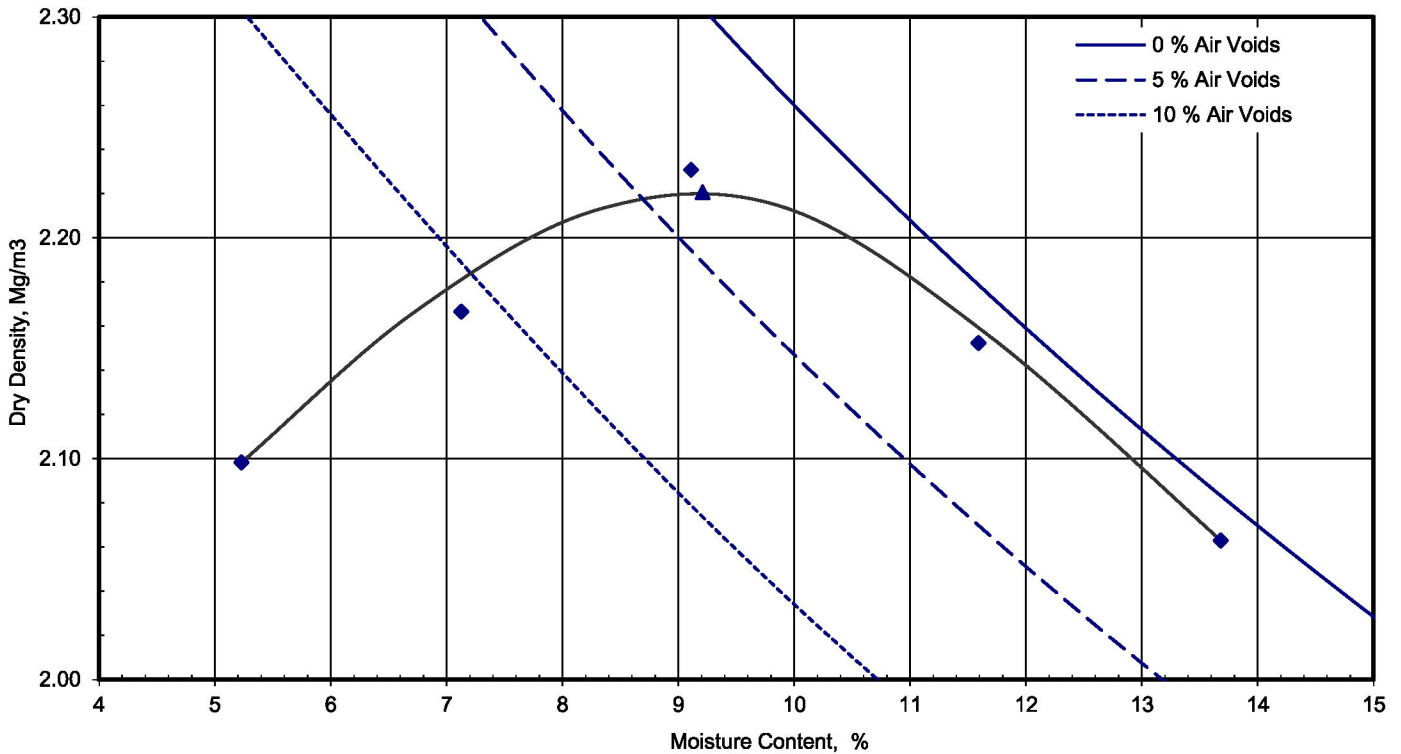
Client Reference: 19114  
 Job Number: 22-86688  
 Date Sampled: 09/09/2022  
 Date Received: 26/09/2022  
 Date Tested: 07/10/2022  
 Sampled By: Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

**Test Results:**

Laboratory Reference: 2439917  
 Hole No.: TP201  
 Sample Reference: Not Given  
 Sample Description: Orangish brown silty clayey very gravelly SAND  
 Sample Preparation: Sample was quartered and broken down by hand. Material used was natural.

Depth Top [m]: 0.70  
 Depth Base [m]: Not Given  
 Sample Type: D



Compaction Point No.	1	2	3	4	5	
Moisture Content	%	5.2	7.1	9.1	12	14
Dry Density	Mg/m³	2.10	2.17	2.23	2.15	2.06

Mould Type	1 Litre	
Samples Used	Single sample tested	
Material Retained on 37.5 mm Sieve	%	0
Material Retained on 20.0 mm Sieve	%	1
Particle Density - Measured using gas jar	Mg/m³	2.92
As received Moisture Content	%	9.8
<b>Maximum Dry Density</b>	<b>Mg/m³</b>	<b>2.22</b>

<b>Optimum Moisture Content</b>	<b>%</b>	<b>9.2</b>
---------------------------------	----------	------------

Note: Tested in Accordance with BS 1377-4: 1990: Clause 3.5 using 4.5kg [heavy] Rammer

Remarks:

Signed:

Monika Siewior  
 Reporting Specialist  
 for and on behalf of i2 Analytical Ltd

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Page 1 of 1

Date Reported: 18/10/2022

GF 110.22



# TEST CERTIFICATE

## DETERMINATION OF DRY DENSITY/MOISTURE CONTENT RELATIONSHIP METHOD USING 4.5 KG RAMMER

Tested in Accordance with: BS 1377-4: 1990

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

4041

Client: Hydrock Consultants Ltd  
Client Address: 2-4 Hawthorne Park, Holdenby Road,  
Spratton, Northamptonshire,  
NN6 8LD  
Contact: Nathan Thompson  
Site Address: Begbroke

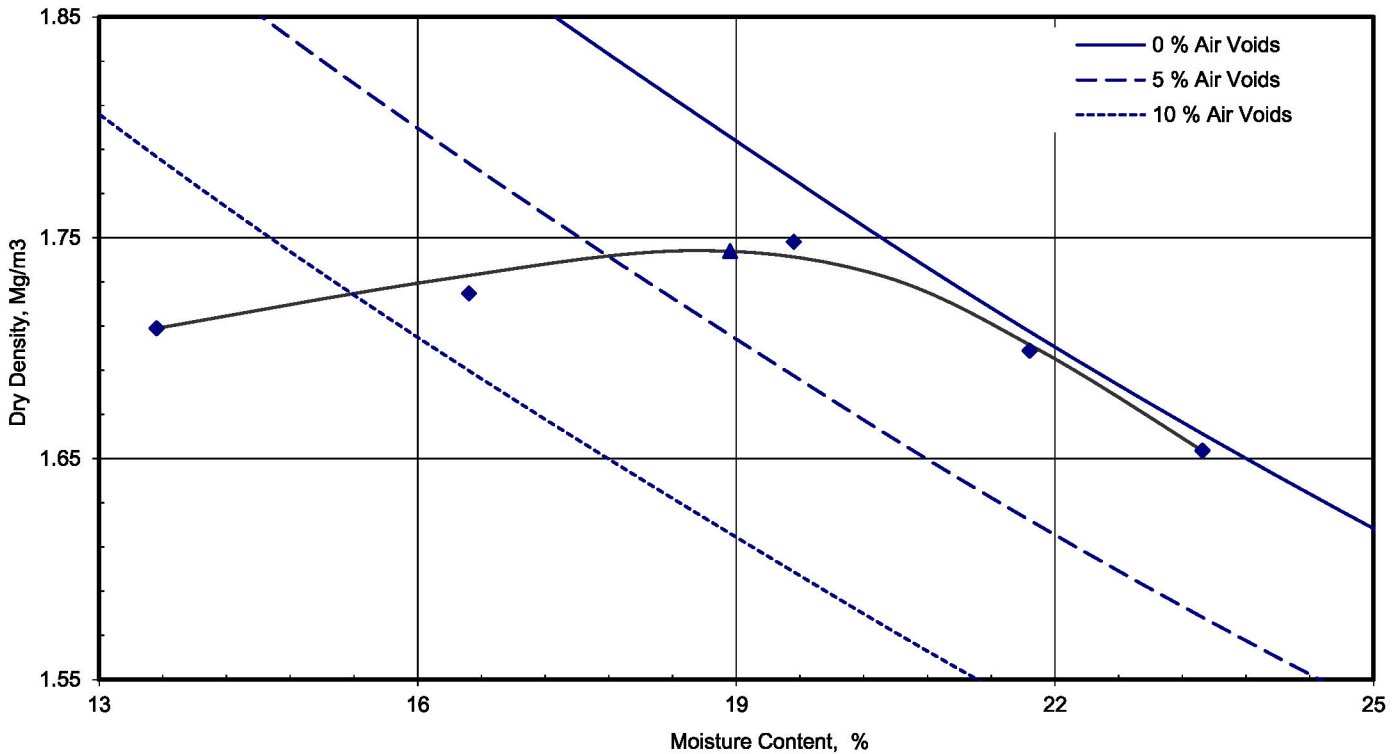
Client Reference: 19114  
Job Number: 22-86688  
Date Sampled: 09/09/2022  
Date Received: 26/09/2022  
Date Tested: 07/10/2022  
Sampled By: Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test Results:

Laboratory Reference: 2439918  
Hole No.: TP203  
Sample Reference: Not Given  
Sample Description: Brownish grey slightly sandy very silty CLAY  
Sample Preparation: Sample was quartered and broken down by hand. Material used was natural.

Depth Top [m]: 1.30  
Depth Base [m]: Not Given  
Sample Type: D



Compaction Point No.	1	2	3	4	5	
Moisture Content	%	14	16	20	22	23
Dry Density	Mg/m³	1.71	1.72	1.75	1.70	1.65

Mould Type	1 Litre	
Samples Used	Single sample tested	
Material Retained on 37.5 mm Sieve	%	0
Material Retained on 20.0 mm Sieve	%	0
Particle Density - Measured using gas jar	Mg/m³	2.72
As received Moisture Content	%	27
Maximum Dry Density	Mg/m³	1.74

Optimum Moisture Content	%	19
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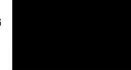
Note: Tested in Accordance with BS 1377-4: 1990: Clause 3.5 using 4.5kg [heavy] Rammer

Remarks:

Signed:

Monika Siewior  
Reporting Specialist  
for and on behalf of i2 Analytical Ltd

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4041

**TEST CERTIFICATE****DETERMINATION OF DRY DENSITY/MOISTURE  
CONTENT RELATIONSHIP METHOD USING  
4.5 KG RAMMER**

Tested in Accordance with: BS 1377-4: 1990

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB

Environmental Science

Client: Hydrock Consultants Ltd  
 Client Address: 2-4 Hawthorne Park, Holdenby Road,  
 Spratton, Northamptonshire,  
 NN6 8LD  
 Contact: Nathan Thompson  
 Site Address: Begbroke

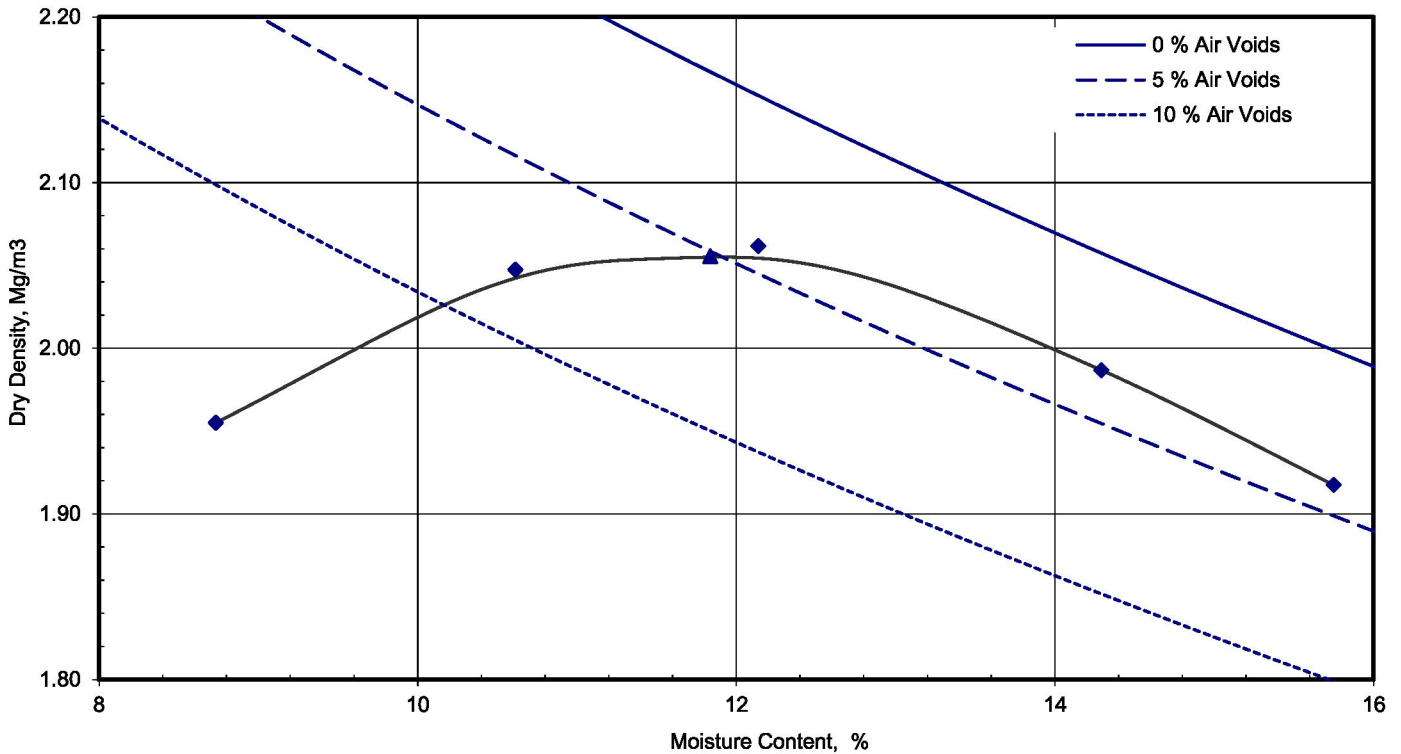
Client Reference: 19114  
 Job Number: 22-86688  
 Date Sampled: 09/09/2022  
 Date Received: 26/09/2022  
 Date Tested: 07/10/2022  
 Sampled By: Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

**Test Results:**

Laboratory Reference: 2439919  
 Hole No.: TP208  
 Sample Reference: Not Given  
 Sample Description: Orangish brown silty clayey very gravelly SAND  
 Sample Preparation: Sample was quartered and broken down by hand. Material used was natural.

Depth Top [m]: 0.60  
 Depth Base [m]: 0.70  
 Sample Type: D



Compaction Point No.	1	2	3	4	5	
Moisture Content	%	8.7	11	12	14	16
Dry Density	Mg/m <sup>3</sup>	1.96	2.05	2.06	1.99	1.92

Mould Type	1 Litre	
Samples Used	Single sample tested	
Material Retained on 37.5 mm Sieve	%	0
Material Retained on 20.0 mm Sieve	%	2
Particle Density - Measured using gas jar	Mg/m <sup>3</sup>	2.92
As received Moisture Content	%	6.7
<b>Maximum Dry Density</b>	<b>Mg/m<sup>3</sup></b>	<b>2.06</b>

<b>Optimum Moisture Content</b>	<b>%</b>	<b>12</b>
---------------------------------	----------	-----------

Note: Tested in Accordance with BS 1377-4: 1990: Clause 3.5 using 4.5kg [heavy] Rammer

Remarks:

Signed:

Monika Siewior  
 Reporting Specialist  
 for and on behalf of i2 Analytical Ltd

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Page 1 of 1

Date Reported: 18/10/2022

GF 110.22



# TEST CERTIFICATE

## DETERMINATION OF DRY DENSITY/MOISTURE CONTENT RELATIONSHIP METHOD USING 4.5 KG RAMMER

Tested in Accordance with: BS 1377-4: 1990

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

4041

Client: Hydrock Consultants Ltd  
Client Address: 2-4 Hawthorne Park, Holdenby Road,  
Spratton, Northamptonshire,  
NN6 8LD  
Contact: Nathan Thompson  
Site Address: Begbroke

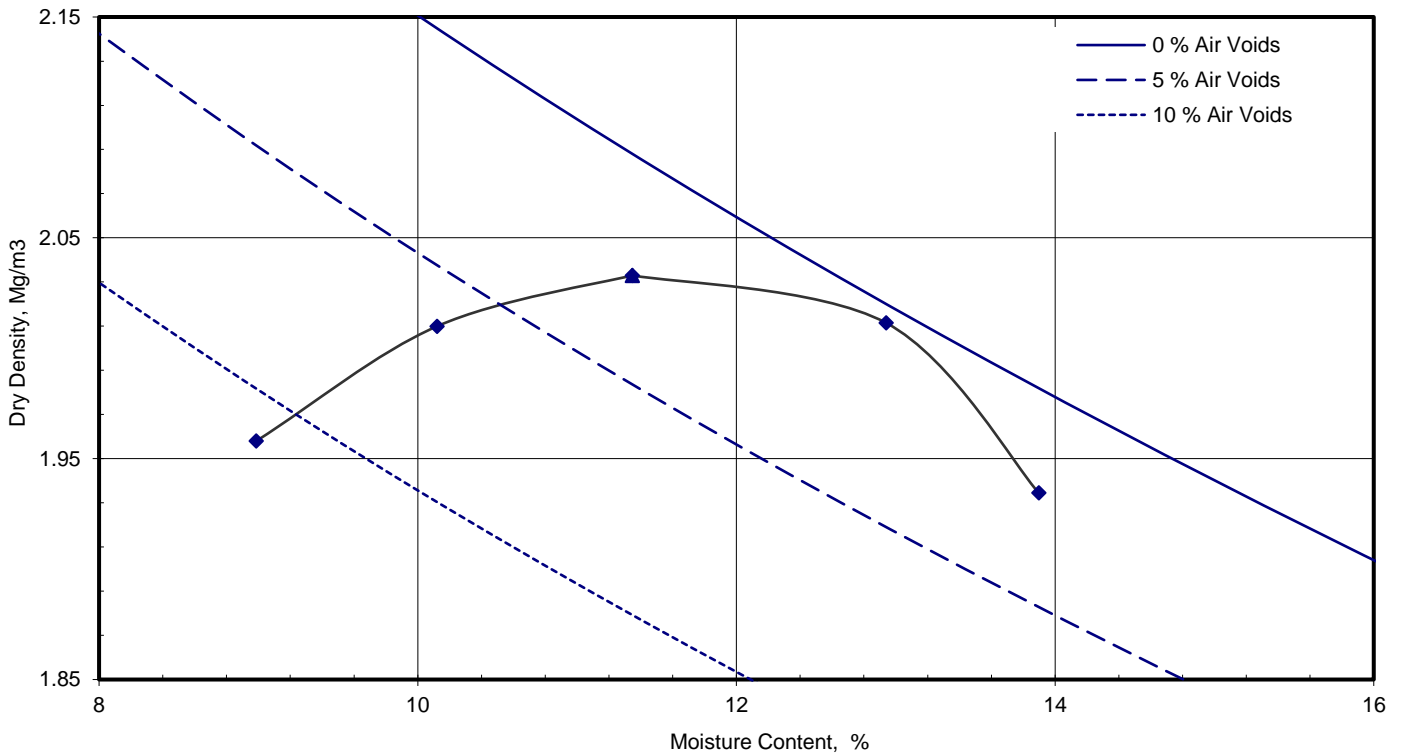
Client Reference: 19114  
Job Number: 22-86688  
Date Sampled: 09/09/2022  
Date Received: 26/09/2022  
Date Tested: 07/10/2022  
Sampled By: Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test Results:

Laboratory Reference: 2439920  
Hole No.: TP218  
Sample Reference: Not Given  
Sample Description: Yellowish brown sandy silty clayey GRAVEL  
Sample Preparation: Sample was quartered and broken down by hand. Material used was natural.

Depth Top [m]: 0.70  
Depth Base [m]: Not Given  
Sample Type: D



Compaction Point No.	1	2	3	4	5
Moisture Content	% 9.0	10	11	13	14
Dry Density	Mg/m³ 1.96	2.01	2.03	2.01	1.93

Mould Type	CBR
Samples Used	Single sample tested
Material Retained on 37.5 mm Sieve	% 20
Material Retained on 20.0 mm Sieve	% 54
Particle Density - Measured using gas jar	Mg/m³ 2.74
As received Moisture Content	% 13
<b>Maximum Dry Density</b>	<b>Mg/m³ 2.03</b>

<b>Optimum Moisture Content</b>	<b>% 11</b>
---------------------------------	-------------

Note: Tested in Accordance with BS 1377-4: 1990: Clause 3.6 using 4.5kg [heavy] Rammer

Remarks: Zone X - test carried out as per client request

Signed:

Monika Siewior  
Reporting Specialist  
for and on behalf of i2 Analytical Ltd

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# TEST CERTIFICATE

## DETERMINATION OF DRY DENSITY/MOISTURE CONTENT RELATIONSHIP METHOD USING 4.5 KG RAMMER

Tested in Accordance with: BS 1377-4: 1990

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

4041

Client: Hydrock Consultants Ltd  
Client Address: 2-4 Hawthorne Park, Holdenby Road,  
Spratton, Northamptonshire,  
NN6 8LD  
Contact: Nathan Thompson  
Site Address: Begbroke

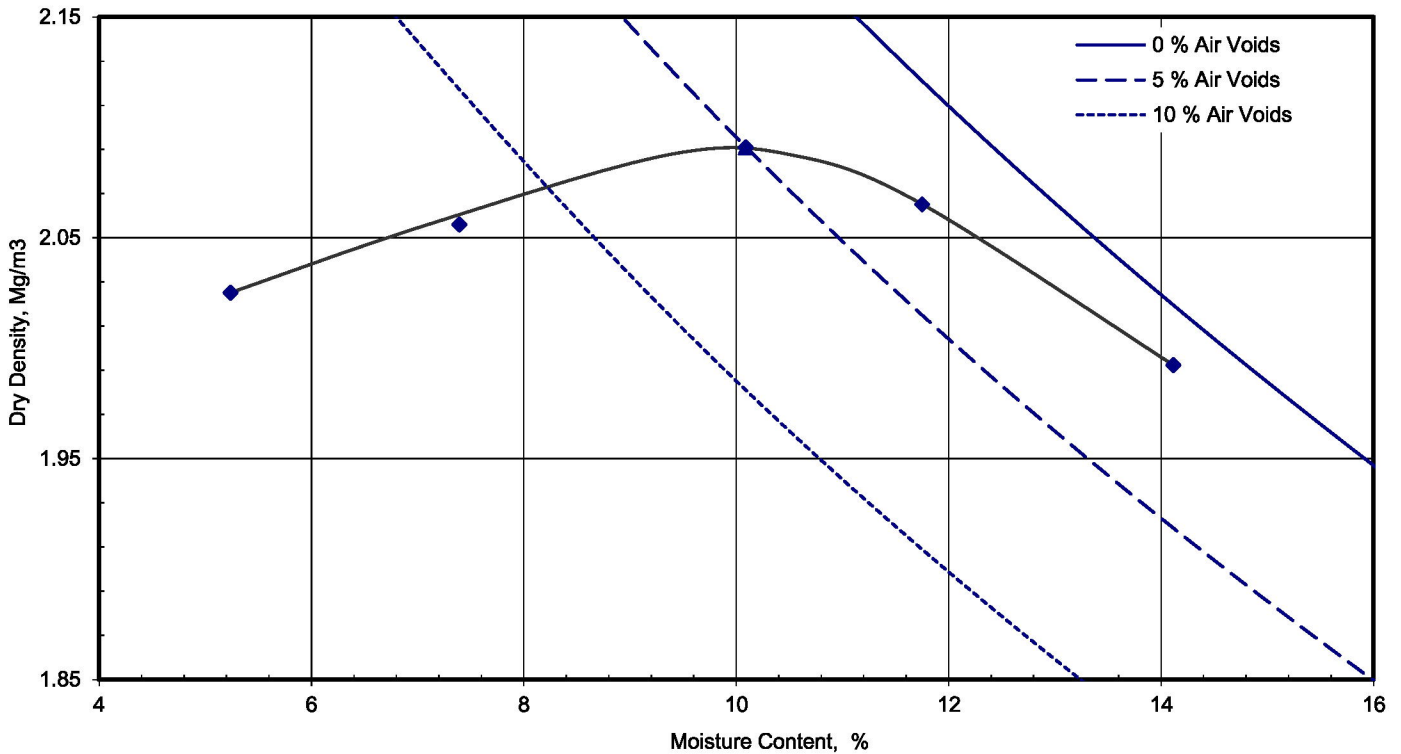
Client Reference: 19114  
Job Number: 22-86688  
Date Sampled: 09/09/2022  
Date Received: 26/09/2022  
Date Tested: 07/10/2022  
Sampled By: Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test Results:

Laboratory Reference: 2439921  
Hole No.: TP221  
Sample Reference: Not Given  
Sample Description: Orangish brown clayey very gravelly SAND  
Sample Preparation: Sample was quartered and broken down by hand. Material used was natural.

Depth Top [m]: 2.20  
Depth Base [m]: 2.30  
Sample Type: D



Compaction Point No.	1	2	3	4	5	
Moisture Content	%	5.2	7.4	10	12	14
Dry Density	Mg/m³	2.03	2.06	2.09	2.07	1.99

Mould Type	1 Litre	
Samples Used	Single sample tested	
Material Retained on 37.5 mm Sieve	%	0
Material Retained on 20.0 mm Sieve	%	5
Particle Density - Measured using gas jar	Mg/m³	2.83
As received Moisture Content	%	8.3
Maximum Dry Density	Mg/m³	2.09

Optimum Moisture Content	%	10
--------------------------	---	----

Note: Tested in Accordance with BS 1377-4: 1990: Clause 3.5 using 4.5kg [heavy] Rammer

Remarks:

Signed:

Monika Siewior  
Reporting Specialist  
for and on behalf of i2 Analytical Ltd

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# TEST CERTIFICATE

## DETERMINATION OF THE CALIFORNIA BEARING RATIO (CBR)

Tested in Accordance with: BS 1377-4: 1990: Clause 7

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

4041

Client: Hydrock Consultants Ltd  
Client Address: 2-4 Hawthorne Park, Holdenby Road,  
Spratton, Northamptonshire,  
NN6 8LD  
Contact: Nathan Thompson  
Site Address: Begbroke

Client Reference: 19114  
Job Number: 22-86688  
Date Sampled: 09/09/2022  
Date Received: 26/09/2022  
Date Tested: 07/10/2022  
Sampled By: Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test Results:

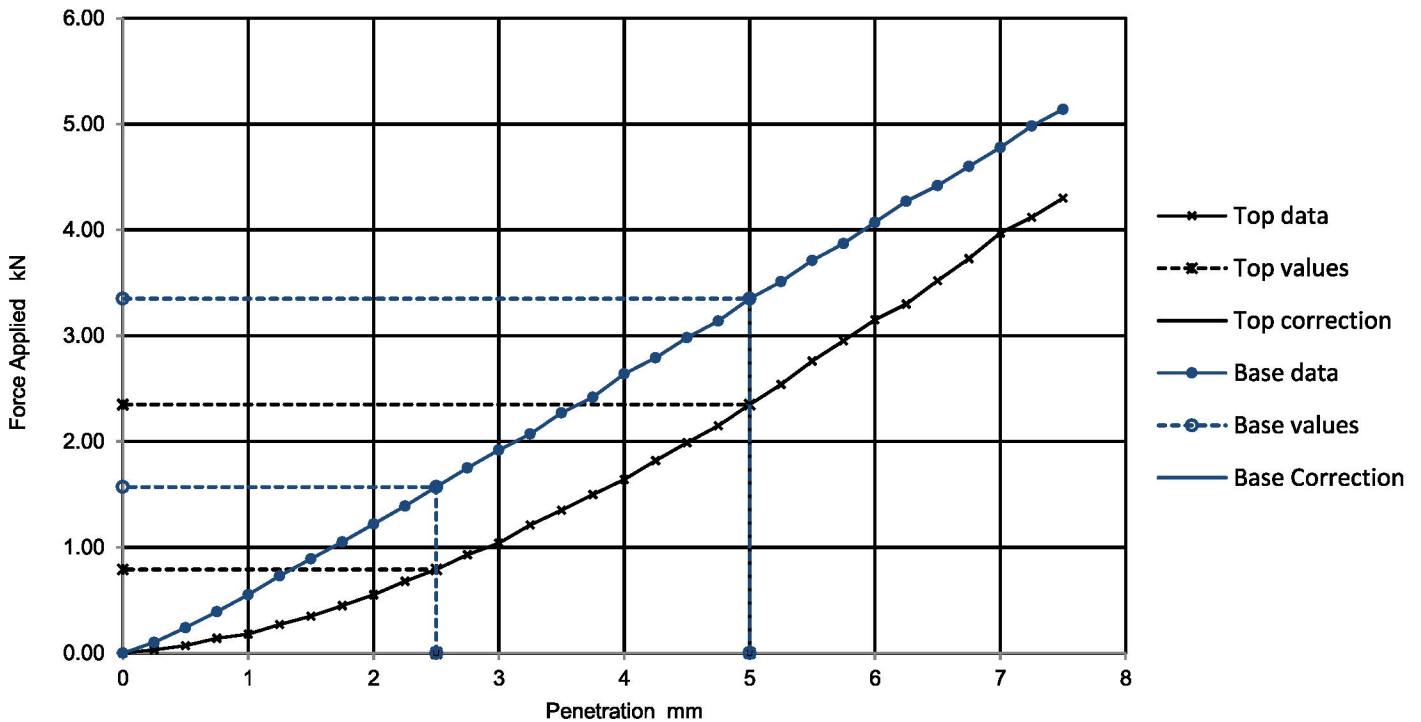
Laboratory Reference: 2439926  
Hole No.: TP204  
Sample Reference: Not Given  
Sample Description: Yellowish brown slightly clayey gravelly SAND

Depth Top [m]: 0.60  
Depth Base [m]: 0.70  
Sample Type: D

### Specimen Preparation:

Condition	Remoulded	Soaking details	Not soaked
Details	Recompacted with specified standard effort using 2.5kg rammer	Period of soaking	days
		Time to surface	days
		Amount of swell recorded	mm
Material retained on 20mm sieve removed	9 %	Dry density after soaking	Mg/m <sup>3</sup>
Initial Specimen details	Bulk density 2.01 Mg/m <sup>3</sup>	Surcharge applied	8 kg
	Dry density 1.89 Mg/m <sup>3</sup>		4.8 kPa
	Moisture content 6.4 %		

Force v Penetration Plots



### Results

	Curve correction applied	CBR Values, %				Moisture Content %
		2.5mm	5mm	Highest	Average	
TOP	No	6.0	12.0	12.0		6.3
BASE	No	12.0	17.0	17.0		6.5

### Remarks:

Test/ Specimen specific remarks:

Signed:

Monika Siewior  
Reporting Specialist  
for and on behalf of i2 Analytical Ltd

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# TEST CERTIFICATE

## DETERMINATION OF THE CALIFORNIA BEARING RATIO (CBR)

Tested in Accordance with: BS 1377-4: 1990: Clause 7

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

4041

Client: Hydrock Consultants Ltd  
Client Address: 2-4 Hawthorne Park, Holdenby Road,  
Spratton, Northamptonshire,  
NN6 8LD  
Contact: Nathan Thompson  
Site Address: Begbroke

Client Reference: 19114  
Job Number: 22-86688  
Date Sampled: 09/09/2022  
Date Received: 26/09/2022  
Date Tested: 07/10/2022  
Sampled By: Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test Results:

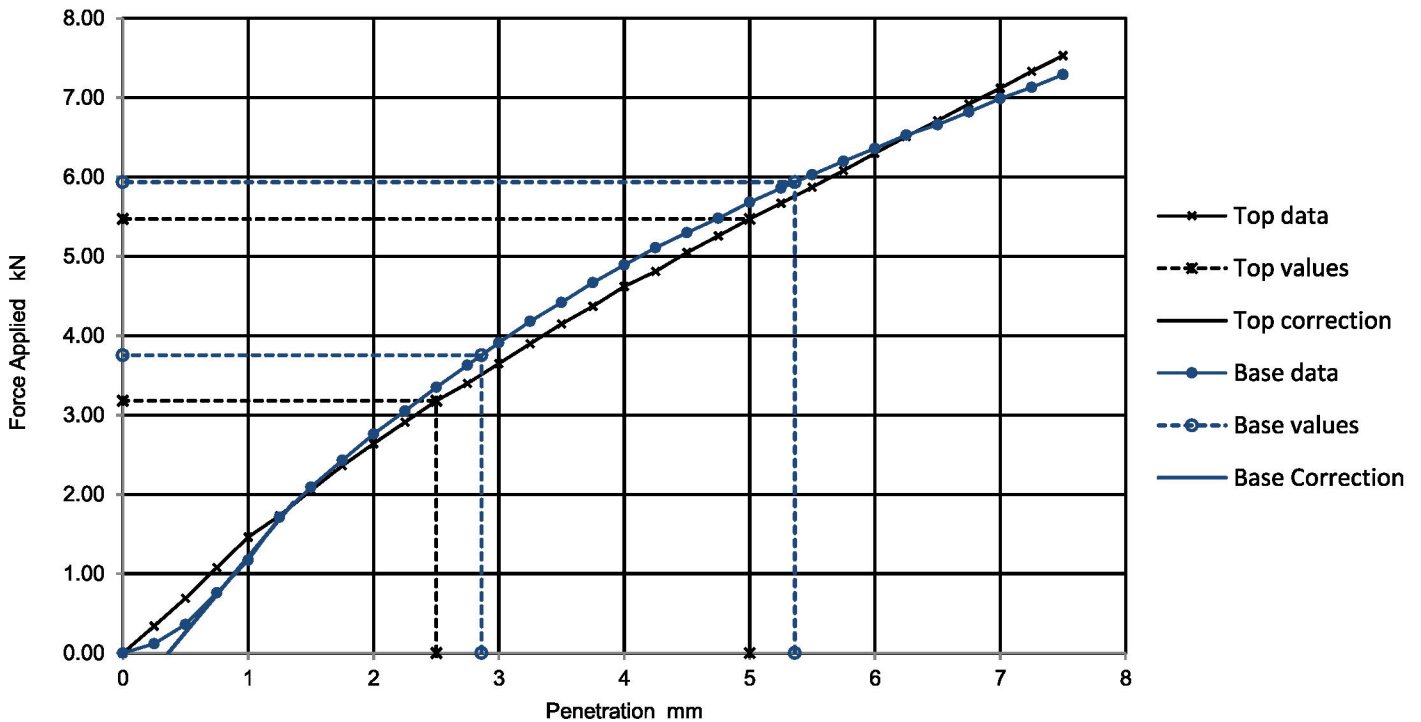
Laboratory Reference: 2439929  
Hole No.: TP209  
Sample Reference: Not Given  
Sample Description: Brown silty clayey very gravelly SAND

Depth Top [m]: 0.60  
Depth Base [m]: Not Given  
Sample Type: D

### Specimen Preparation:

Condition	Remoulded	Soaking details	Not soaked
Details	Recompacted with specified standard effort using 2.5kg rammer	Period of soaking	days
		Time to surface	days
		Amount of swell recorded	mm
Material retained on 20mm sieve removed	3 %	Dry density after soaking	Mg/m <sup>3</sup>
Initial Specimen details	Bulk density 2.02 Mg/m <sup>3</sup>	Surcharge applied	8 kg
	Dry density 1.88 Mg/m <sup>3</sup>		4.9 kPa
	Moisture content 7.5 %		

Force v Penetration Plots



### Results

	Curve correction applied	CBR Values, %				Moisture Content %
		2.5mm	5mm	Highest	Average	
TOP	No	24.0	27.0	27.0	29.0	7.3
BASE	Yes	28.0	30.0	30.0		6.9

### Remarks:

Test/ Specimen specific remarks:

Signed:



Monika Siewior  
Reporting Specialist  
for and on behalf of i2 Analytical Ltd

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# TEST CERTIFICATE

## DETERMINATION OF THE CALIFORNIA BEARING RATIO (CBR)

Tested in Accordance with: BS 1377-4: 1990: Clause 7

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

4041

Client: Hydrock Consultants Ltd  
Client Address: 2-4 Hawthorne Park, Holdenby Road,  
Spratton, Northamptonshire,  
NN6 8LD  
Contact: Nathan Thompson  
Site Address: Begbroke

Client Reference: 19114  
Job Number: 22-86688  
Date Sampled: 09/09/2022  
Date Received: 26/09/2022  
Date Tested: 07/10/2022  
Sampled By: Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test Results:

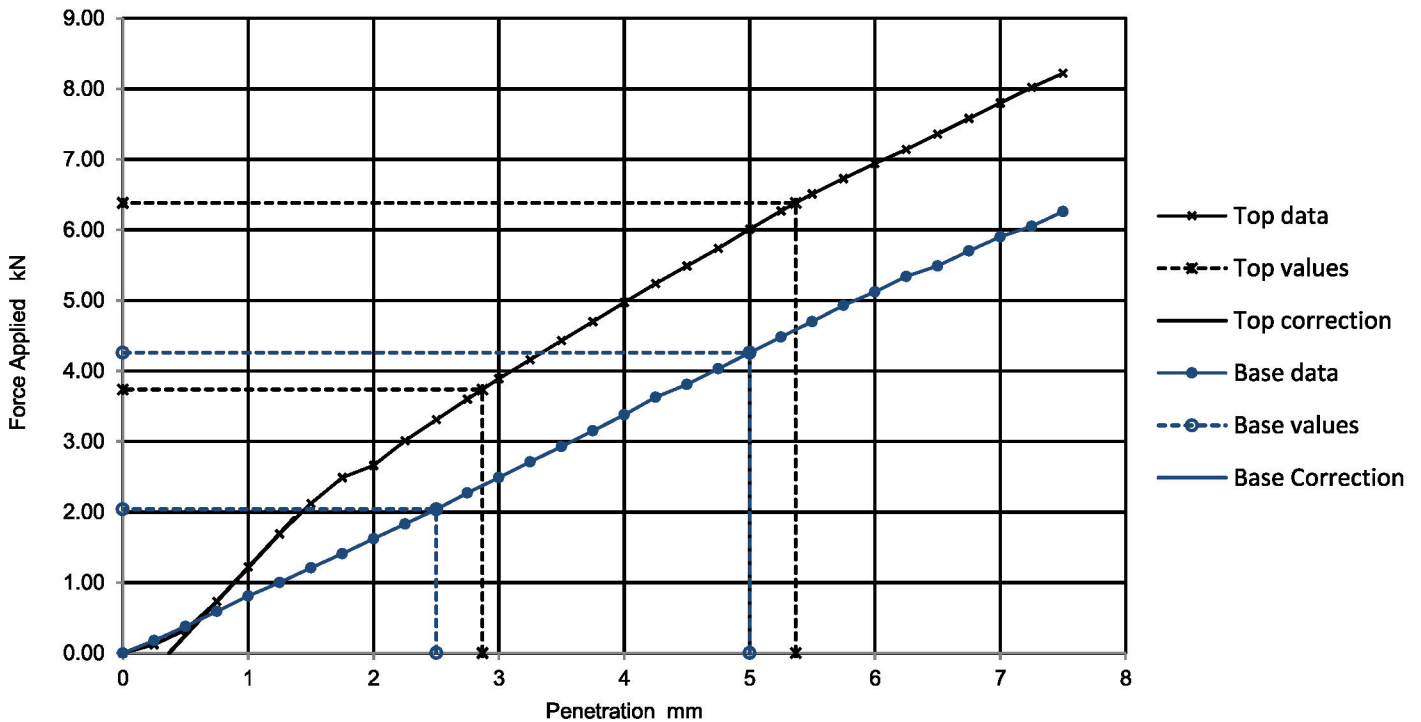
Laboratory Reference: 2439933  
Hole No.: TP212  
Sample Reference: Not Given  
Sample Description: Brown slightly clayey very gravelly SAND

Depth Top [m]: 0.70  
Depth Base [m]: Not Given  
Sample Type: D

### Specimen Preparation:

Condition	Remoulded	Soaking details	Not soaked
Details	Recompacted with specified standard effort using 2.5kg rammer	Period of soaking	days
		Time to surface	days
		Amount of swell recorded	mm
Material retained on 20mm sieve removed	2 %	Dry density after soaking	Mg/m <sup>3</sup>
Initial Specimen details	Bulk density 2.01 Mg/m <sup>3</sup>	Surcharge applied	8 kg
	Dry density 1.90 Mg/m <sup>3</sup>		4.8 kPa
	Moisture content 5.8 %		

Force v Penetration Plots



### Results

TOP  
BASE

Curve correction applied	CBR Values, %			
	2.5mm	5mm	Highest	Average
Yes	28.0	32.0	32.0	
No	15.0	21.0	21.0	

Moisture Content %
5.9
6.3

### Remarks:

Test/ Specimen specific remarks:

Signed:



Monika Siewior  
Reporting Specialist  
for and on behalf of i2 Analytical Ltd

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# TEST CERTIFICATE

## DETERMINATION OF THE CALIFORNIA BEARING RATIO (CBR)

Tested in Accordance with: BS 1377-4: 1990: Clause 7

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

4041

Client: Hydrock Consultants Ltd  
Client Address: 2-4 Hawthorne Park, Holdenby Road,  
Spratton, Northamptonshire,  
NN6 8LD  
Contact: Nathan Thompson  
Site Address: Begbroke

Client Reference: 19114  
Job Number: 22-86688  
Date Sampled: 09/09/2022  
Date Received: 26/09/2022  
Date Tested: 07/10/2022  
Sampled By: Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test Results:

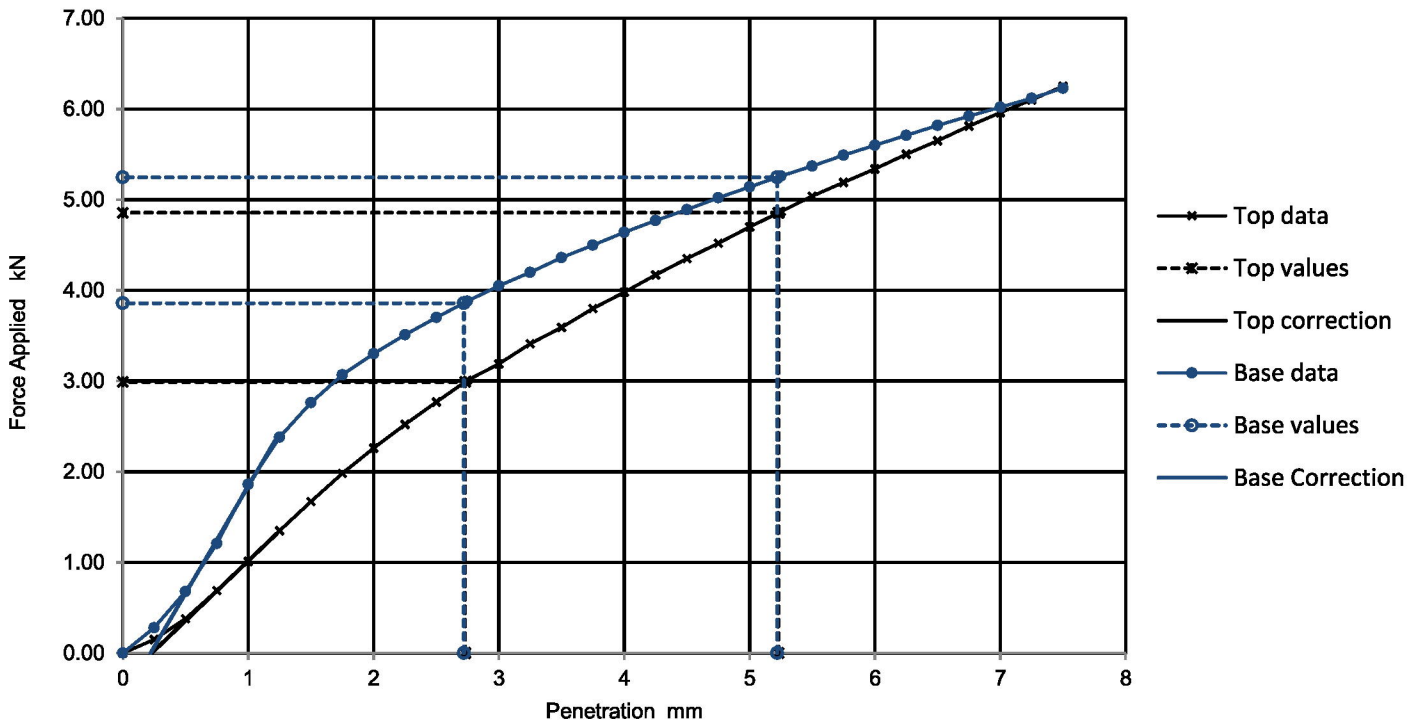
Laboratory Reference: 2439941  
Hole No.: TP224  
Sample Reference: Not Given  
Sample Description: Yellowish brown slightly gravelly sandy CLAY

Depth Top [m]: 0.90  
Depth Base [m]: Not Given  
Sample Type: D

### Specimen Preparation:

Condition	Remoulded	Soaking details	Not soaked
Details	Recompacted with specified standard effort using 2.5kg rammer	Period of soaking	days
		Time to surface	days
		Amount of swell recorded	mm
Material retained on 20mm sieve removed	3 %	Dry density after soaking	Mg/m <sup>3</sup>
Initial Specimen details	Bulk density 2.00 Mg/m <sup>3</sup>	Surcharge applied	8 kg
	Dry density 1.82 Mg/m <sup>3</sup>		4.8 kPa
	Moisture content 9.8 %		

Force v Penetration Plots



### Results

	Curve correction applied	CBR Values, %				Moisture Content %
		2.5mm	5mm	Highest	Average	
TOP	Yes	23.0	24.0	24.0	27.0	9.8
BASE	Yes	29.0	26.0	29.0		9.3

### Remarks:

Test/ Specimen specific remarks:

Signed:

Monika Siewior  
Reporting Specialist  
for and on behalf of i2 Analytical Ltd

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# TEST CERTIFICATE

## DETERMINATION OF THE CALIFORNIA BEARING RATIO (CBR)

Tested in Accordance with: BS 1377-4: 1990: Clause 7

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

4041

Client: Hydrock Consultants Ltd  
Client Address: 2-4 Hawthorne Park, Holdenby Road,  
Spratton, Northamptonshire,  
NN6 8LD  
Contact: Nathan Thompson  
Site Address: Begbroke

Client Reference: 19114  
Job Number: 22-86688  
Date Sampled: 09/09/2022  
Date Received: 26/09/2022  
Date Tested: 07/10/2022  
Sampled By: Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test Results:

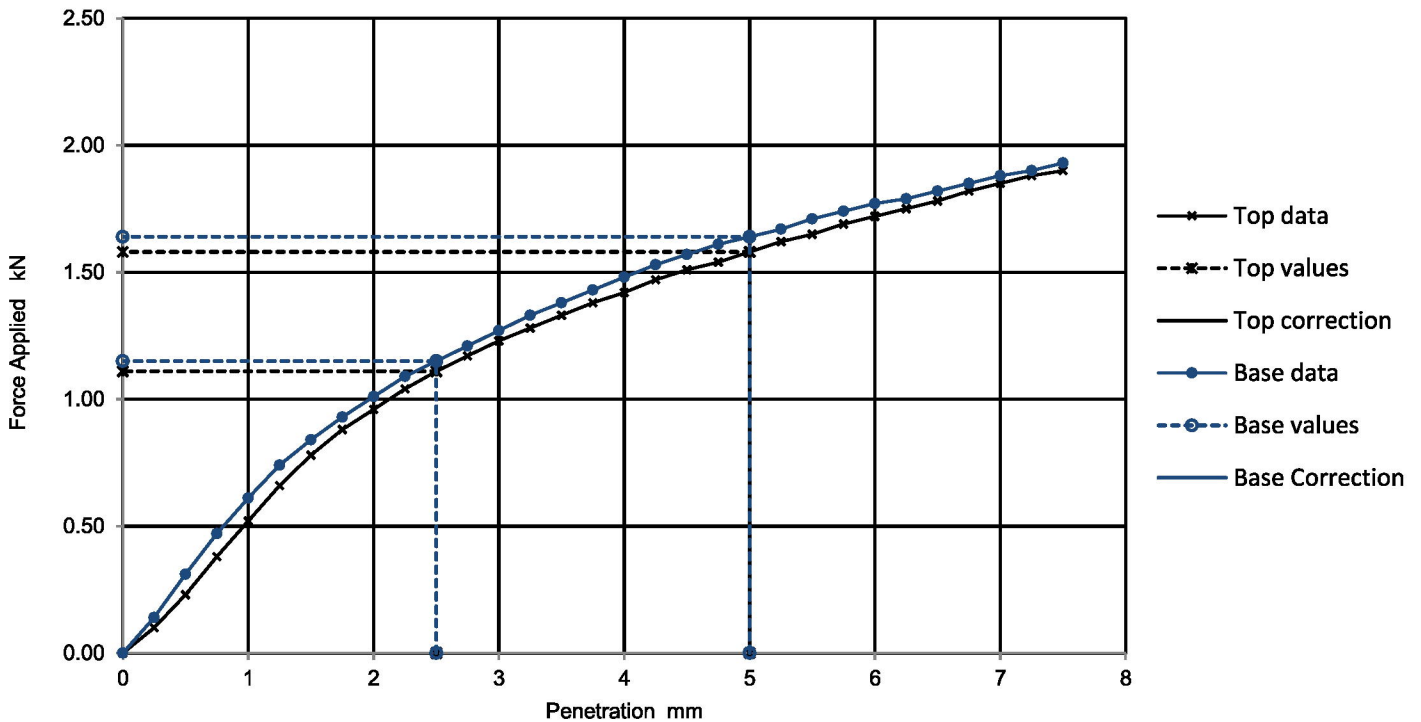
Laboratory Reference: 2439948  
Hole No.: TP232  
Sample Reference: Not Given  
Sample Description: Brown CLAY

Depth Top [m]: 0.50  
Depth Base [m]: Not Given  
Sample Type: D

### Specimen Preparation:

Condition	Remoulded	Soaking details	Not soaked
Details	Recompacted with specified standard effort using 2.5kg rammer	Period of soaking	days
		Time to surface	days
		Amount of swell recorded	mm
Material retained on 20mm sieve removed	3 %	Dry density after soaking	Mg/m <sup>3</sup>
Initial Specimen details	Bulk density 1.99 Mg/m <sup>3</sup>	Surcharge applied	8 kg
	Dry density 1.67 Mg/m <sup>3</sup>		4.8 kPa
	Moisture content 19 %		

Force v Penetration Plots



### Results

	Curve correction applied	CBR Values, %				Moisture Content %
		2.5mm	5mm	Highest	Average	
TOP	No	8.4	7.9	8.4	8.6	19
BASE	No	8.7	8.2	8.7		21

### Remarks:

Test/ Specimen specific remarks:

Signed:

Monika Siewior  
Reporting Specialist  
for and on behalf of i2 Analytical Ltd

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# TEST CERTIFICATE

## DETERMINATION OF THE CALIFORNIA BEARING RATIO (CBR) SOAKED

Tested in Accordance with: BS 1377-4: 1990: Clause 7

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

4041

Client: Hydrock Consultants Ltd  
Client Address: 2-4 Hawthorne Park, Holdenby Road,  
Spratton, Northamptonshire,  
NN6 8LD  
Contact: Nathan Thompson  
Site Address: Begbroke

Client Reference: 19114  
Job Number: 22-86688  
Date Sampled: 09/09/2022  
Date Received: 26/09/2022  
Date Tested: 08/10/2022  
Sampled By: Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test Results:

Laboratory Reference: 2439917  
Hole No.: TP201  
Sample Reference: Not Given  
Sample Description: Orangish brown silty clayey very gravelly SAND

Depth Top [m]: 0.70  
Depth Base [m]: Not Given  
Sample Type: D

### Specimen Preparation:

Condition Remoulded  
Details Recompacted with specified standard effort using 4.5kg rammer

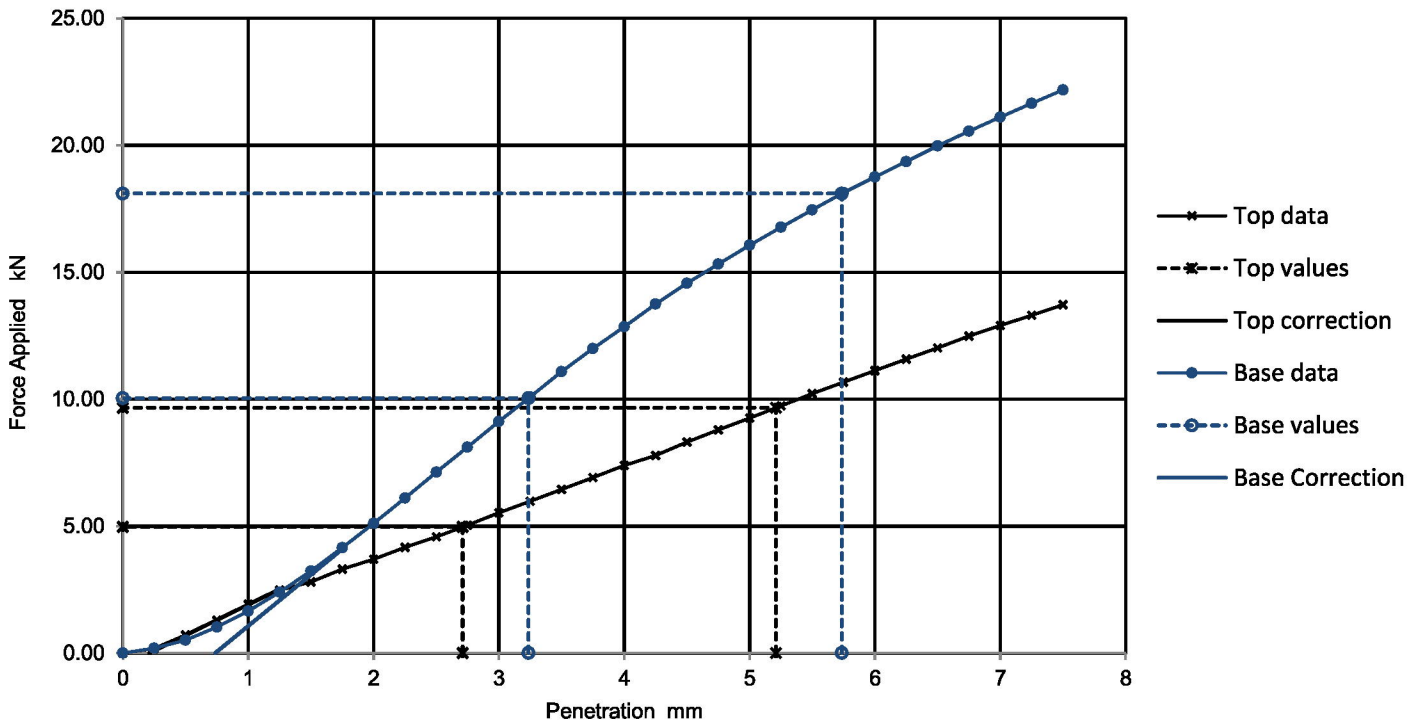
Soaking details  
Period of soaking 6 days  
Time to surface 3 days  
Amount of swell recorded 0.18 mm  
Dry density after soaking 2.21 Mg/m<sup>3</sup>

Material retained on 20mm sieve removed 1 %

Initial Specimen details  
Bulk density 2.41 Mg/m<sup>3</sup>  
Dry density 2.22 Mg/m<sup>3</sup>  
Moisture content 8.8 %

Surcharge applied 8 kg  
4.9 kPa

Force v Penetration Plots



### Results

	Curve correction applied	CBR Values, %				Moisture Content %
		2.5mm	5mm	Highest	Average	
TOP	Yes	38.0	48.0	48.0		12
BASE	Yes	76.0	91.0	91.0		10

Remarks: CBR tested at OMC = 9% of MC.

Test/ Specimen specific remarks:

Signed:



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Reporting Specialist  
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Tested in Accordance with: BS 1377-4: 1990: Clause 7

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NN6 8LD  
Contact: Nathan Thompson  
Site Address: Begbroke

Client Reference: 19114  
Job Number: 22-86688  
Date Sampled: 09/09/2022  
Date Received: 26/09/2022  
Date Tested: 08/10/2022  
Sampled By: Not Given

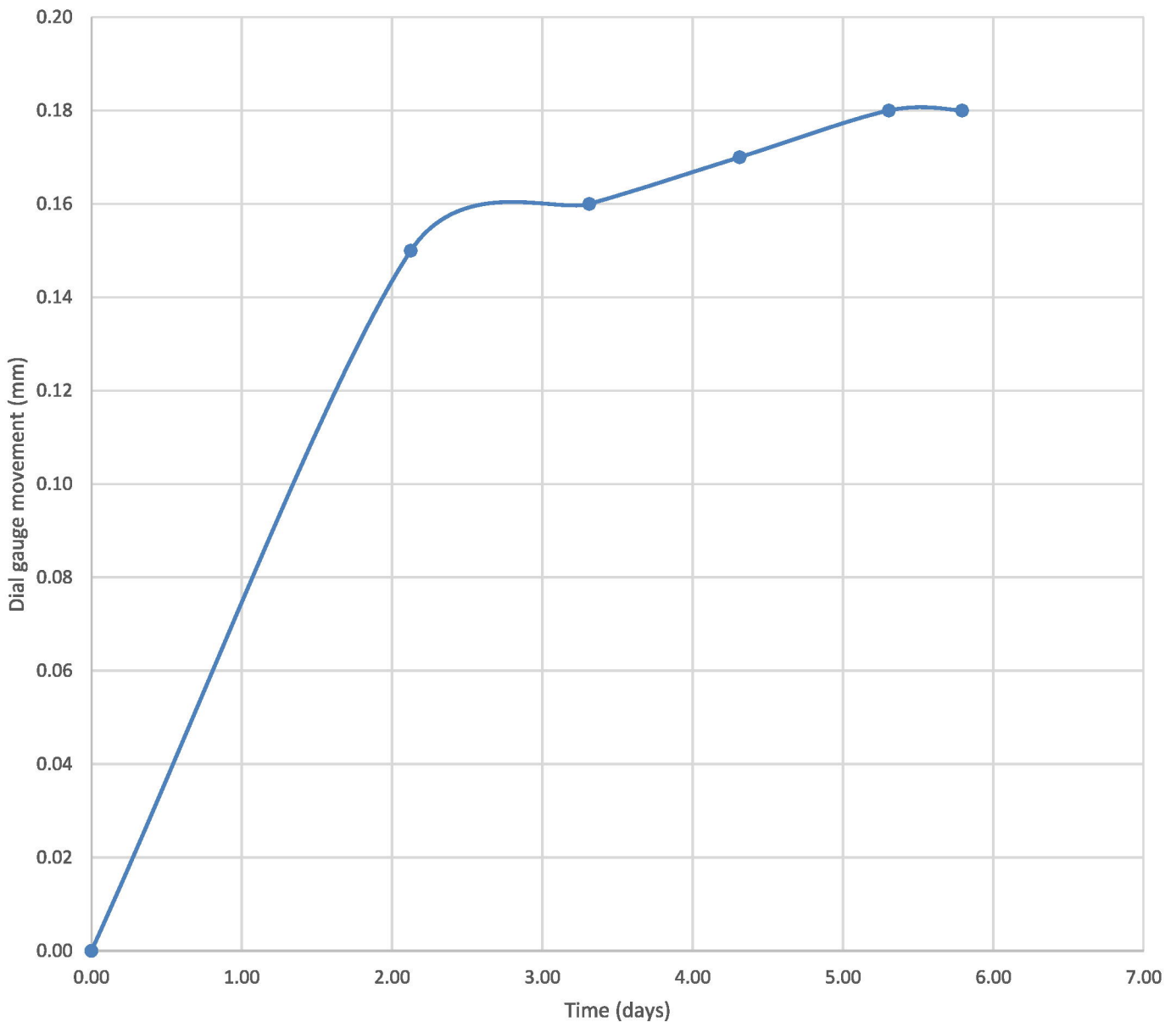
Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test Results:

Laboratory Reference: 2439917  
Hole No.: TP201  
Sample Reference: Not Given  
Sample Description: Orangish brown silty clayey very gravelly SAND

Depth Top [m]: 0.70  
Depth Base [m]: Not Given  
Sample Type: D

### CBR Soaked Graph



Remarks: CBR tested at OMC = 9% of MC.

Test/ Specimen specific remarks:

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Reporting Specialist  
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# TEST CERTIFICATE

## DETERMINATION OF THE CALIFORNIA BEARING RATIO (CBR) SOAKED

Tested in Accordance with: BS 1377-4: 1990: Clause 7

i2 Analytical Ltd  
Unit 8 Harrowden Road  
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Environmental Science

4041

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NN6 8LD  
Contact: Nathan Thompson  
Site Address: Begbroke

Client Reference: 19114  
Job Number: 22-86688  
Date Sampled: 09/09/2022  
Date Received: 26/09/2022  
Date Tested: 08/10/2022  
Sampled By: Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test Results:

Laboratory Reference: 2439918  
Hole No.: TP203  
Sample Reference: Not Given  
Sample Description: Brownish grey slightly sandy very silty CLAY

Depth Top [m]: 1.30  
Depth Base [m]: Not Given  
Sample Type: D

### Specimen Preparation:

Condition Remoulded  
Details Recompacted with specified standard effort using 4.5kg rammer

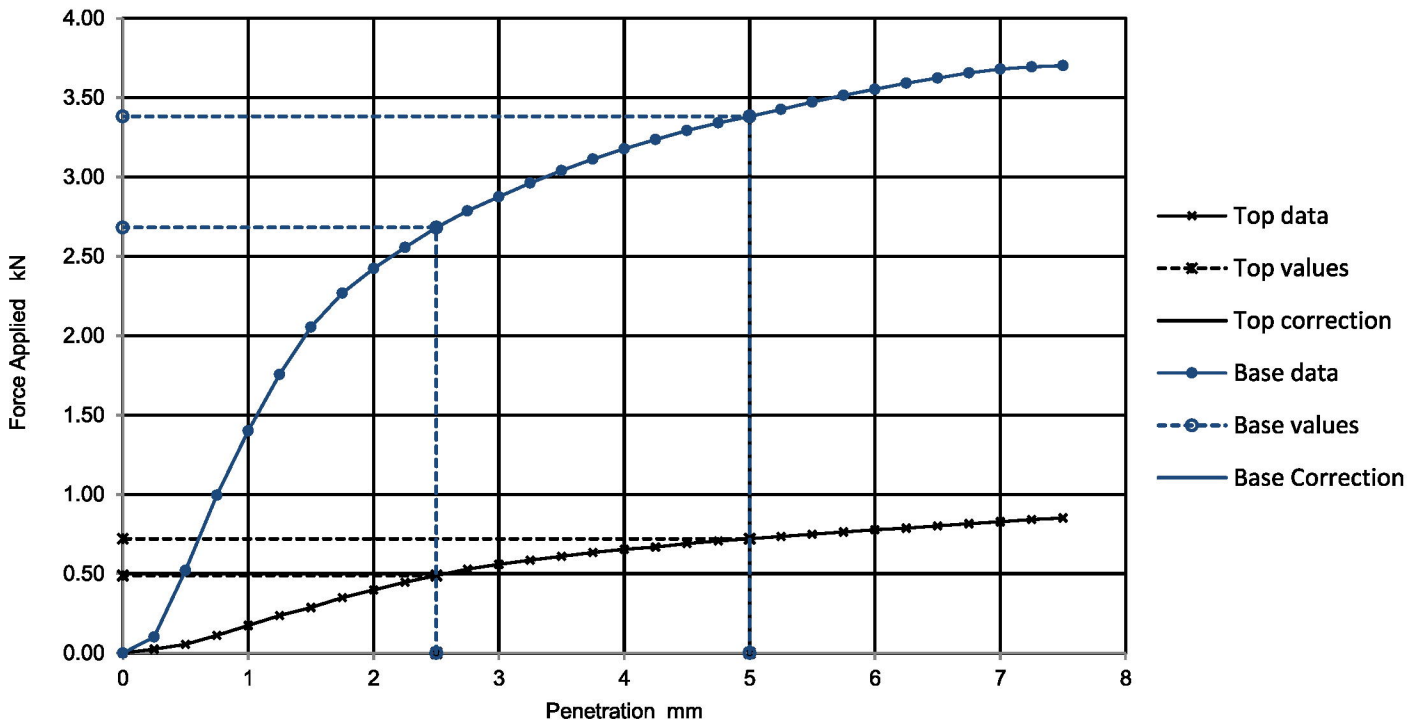
Soaking details  
Period of soaking 9 days  
Time to surface 3 days  
Amount of swell recorded 3.06 mm  
Dry density after soaking 1.69 Mg/m<sup>3</sup>

Material retained on 20mm sieve removed 0 %

Initial Specimen details  
Bulk density 2.05 Mg/m<sup>3</sup>  
Dry density 1.73 Mg/m<sup>3</sup>  
Moisture content 19 %

Surcharge applied 8 kg  
4.8 kPa

Force v Penetration Plots



### Results

TOP  
BASE

Curve correction applied	CBR Values, %			
	2.5mm	5mm	Highest	Average
No	3.7	3.6	3.7	
No	20.0	17.0	20.0	

Moisture Content %
28
23

Remarks: CBR tested at OMC = 19% of MC.

Test/ Specimen specific remarks:

Signed:

Monika Siewior  
Reporting Specialist  
for and on behalf of i2 Analytical Ltd

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4041

# TEST CERTIFICATE

## DETERMINATION OF THE CALIFORNIA BEARING RATIO (CBR) SOAKED

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i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

Client: Hydrock Consultants Ltd  
Client Address: 2-4 Hawthorne Park, Holdenby Road,  
Spratton, Northamptonshire,  
NN6 8LD

Contact: Nathan Thompson  
Site Address: Begbroke

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

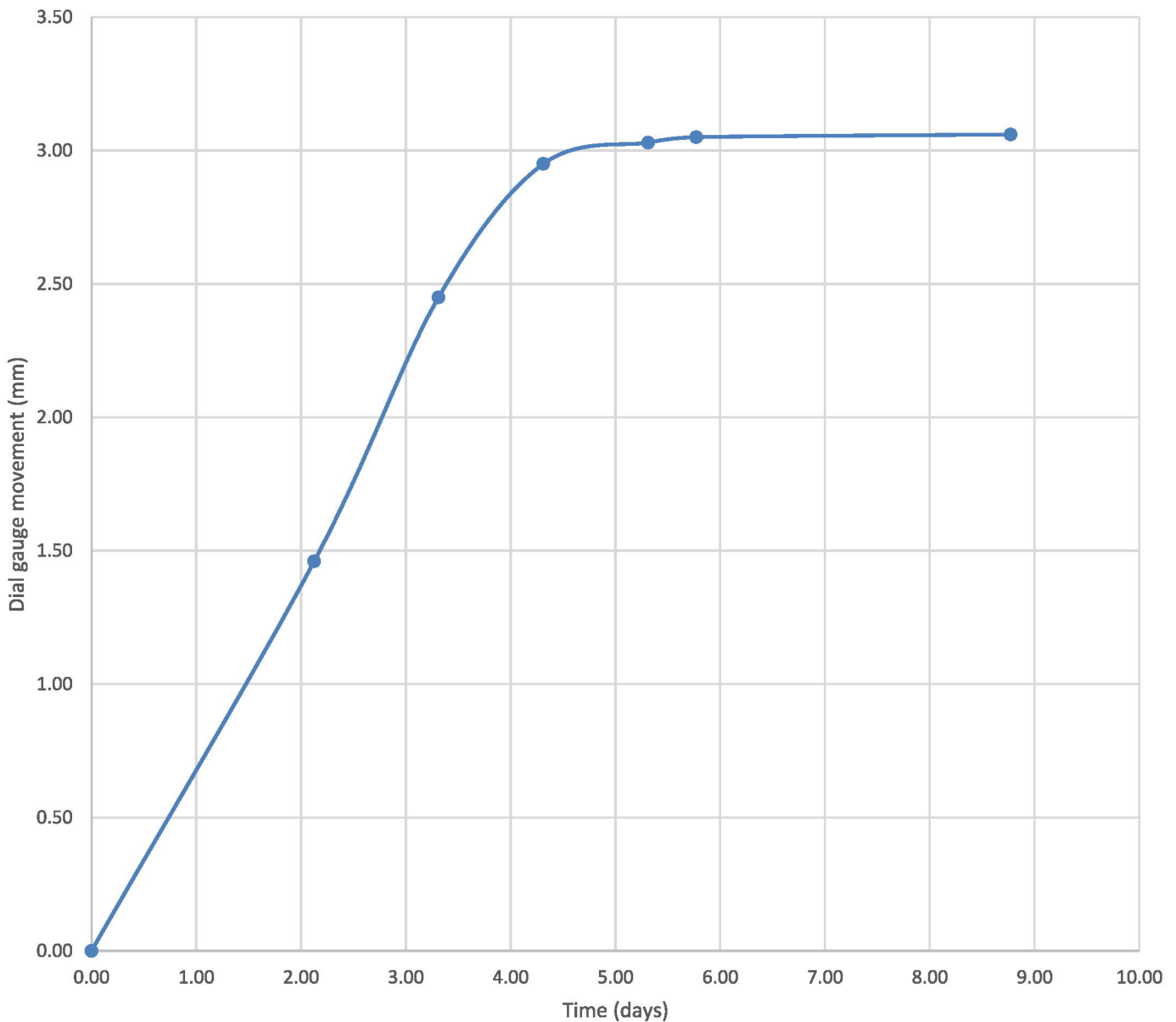
Client Reference: 19114  
Job Number: 22-86688  
Date Sampled: 09/09/2022  
Date Received: 26/09/2022  
Date Tested: 08/10/2022  
Sampled By: Not Given

### Test Results:

Laboratory Reference: 2439918  
Hole No.: TP203  
Sample Reference: Not Given  
Sample Description: Brownish grey slightly sandy very silty CLAY

Depth Top [m]: 1.30  
Depth Base [m]: Not Given  
Sample Type: D

### CBR Soaked Graph



Remarks: CBR tested at OMC = 19% of MC.

Test/ Specimen  
specific remarks:

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# TEST CERTIFICATE

## DETERMINATION OF THE CALIFORNIA BEARING RATIO (CBR) SOAKED

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Spratton, Northamptonshire,  
NN6 8LD  
Contact: Nathan Thompson  
Site Address: Begbroke

Client Reference: 19114  
Job Number: 22-86688  
Date Sampled: 09/09/2022  
Date Received: 26/09/2022  
Date Tested: 06/10/2022  
Sampled By: Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test Results:

Laboratory Reference: 2439919  
Hole No.: TP208  
Sample Reference: Not Given  
Sample Description: Orangish brown silty clayey very gravelly SAND

Depth Top [m]: 0.60  
Depth Base [m]: 0.70  
Sample Type: D

### Specimen Preparation:

Condition Remoulded  
Details Recompacted with specified standard effort using 4.5kg rammer

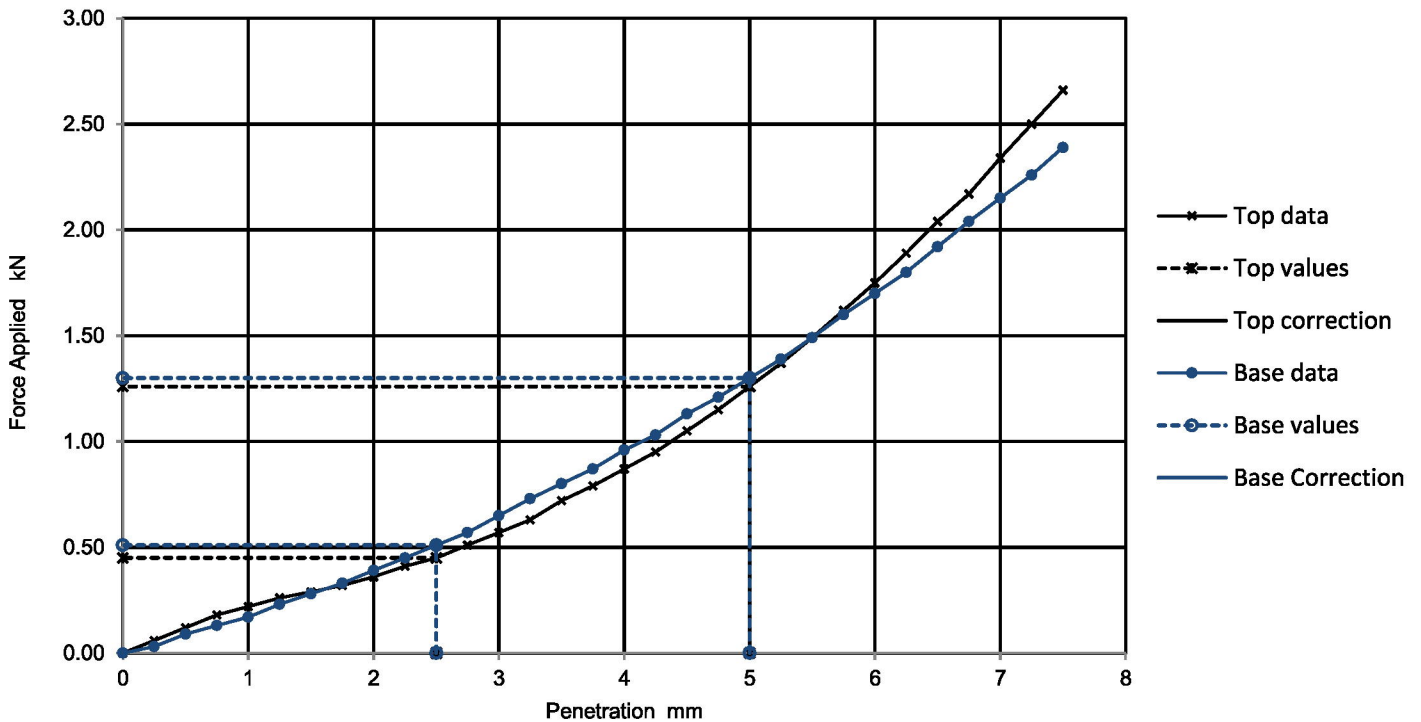
Soaking details  
Period of soaking 6 days  
Time to surface 3 days  
Amount of swell recorded -0.15 mm  
Dry density after soaking 2.05 Mg/m<sup>3</sup>

Material retained on 20mm sieve removed 2 %

Initial Specimen details  
Bulk density 2.30 Mg/m<sup>3</sup>  
Dry density 2.05 Mg/m<sup>3</sup>  
Moisture content 12 %

Surcharge applied 8 kg  
4.8 kPa

Force v Penetration Plots



### Results

	Curve correction applied	CBR Values, %				Moisture Content %
		2.5mm	5mm	Highest	Average	
TOP	No	3.4	6.3	6.3	6.4	13
BASE	No	3.9	6.5	6.5		13

Remarks: CBR tested at OMC = 12% of MC.

Test/ Specimen specific remarks:

Signed:



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Reporting Specialist  
for and on behalf of i2 Analytical Ltd

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i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

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NN6 8LD  
Contact: Nathan Thompson  
Site Address: Begbroke

Client Reference: 19114  
Job Number: 22-86688  
Date Sampled: 09/09/2022  
Date Received: 26/09/2022  
Date Tested: 06/10/2022  
Sampled By: Not Given

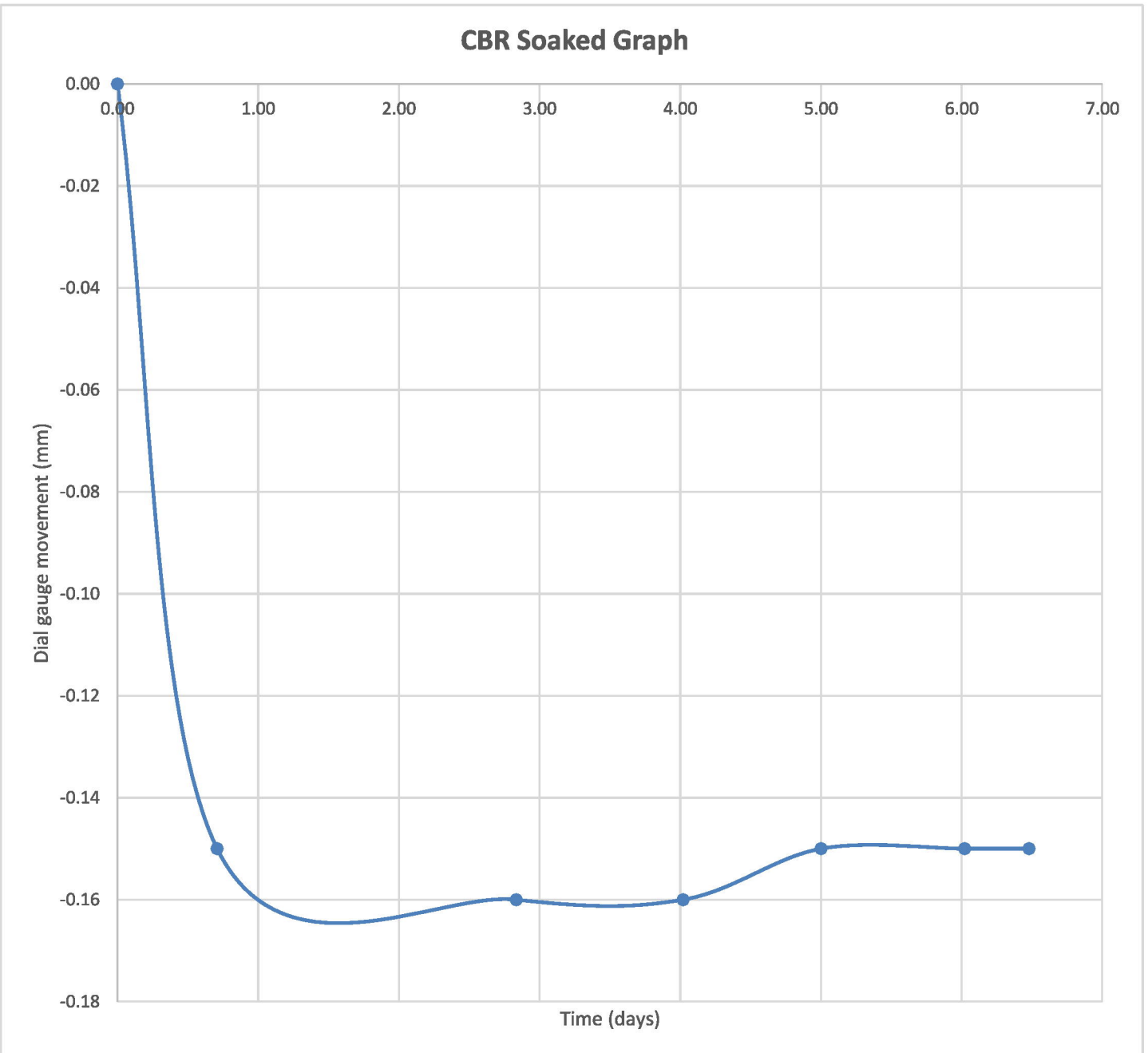
Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test Results:

Laboratory Reference: 2439919  
Hole No.: TP208  
Sample Reference: Not Given  
Sample Description: Orangish brown silty clayey very gravelly SAND

Depth Top [m]: 0.60  
Depth Base [m]: 0.70  
Sample Type: D

### CBR Soaked Graph



Remarks: CBR tested at OMC = 12% of MC.

Test/ Specimen  
specific remarks:

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Environmental Science

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NN6 8LD  
Contact: Nathan Thompson  
Site Address: Begbroke

Client Reference: 19114  
Job Number: 22-86688  
Date Sampled: 09/09/2022  
Date Received: 26/09/2022  
Date Tested: 07/10/2022  
Sampled By: Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test Results:

Laboratory Reference: 2439920  
Hole No.: TP218  
Sample Reference: Not Given  
Sample Description: Yellowish brown sandy silty clayey GRAVEL

Depth Top [m]: 0.70  
Depth Base [m]: Not Given  
Sample Type: D

### Specimen Preparation:

Condition Remoulded  
Details Recompacted with specified standard effort using 4.5kg rammer

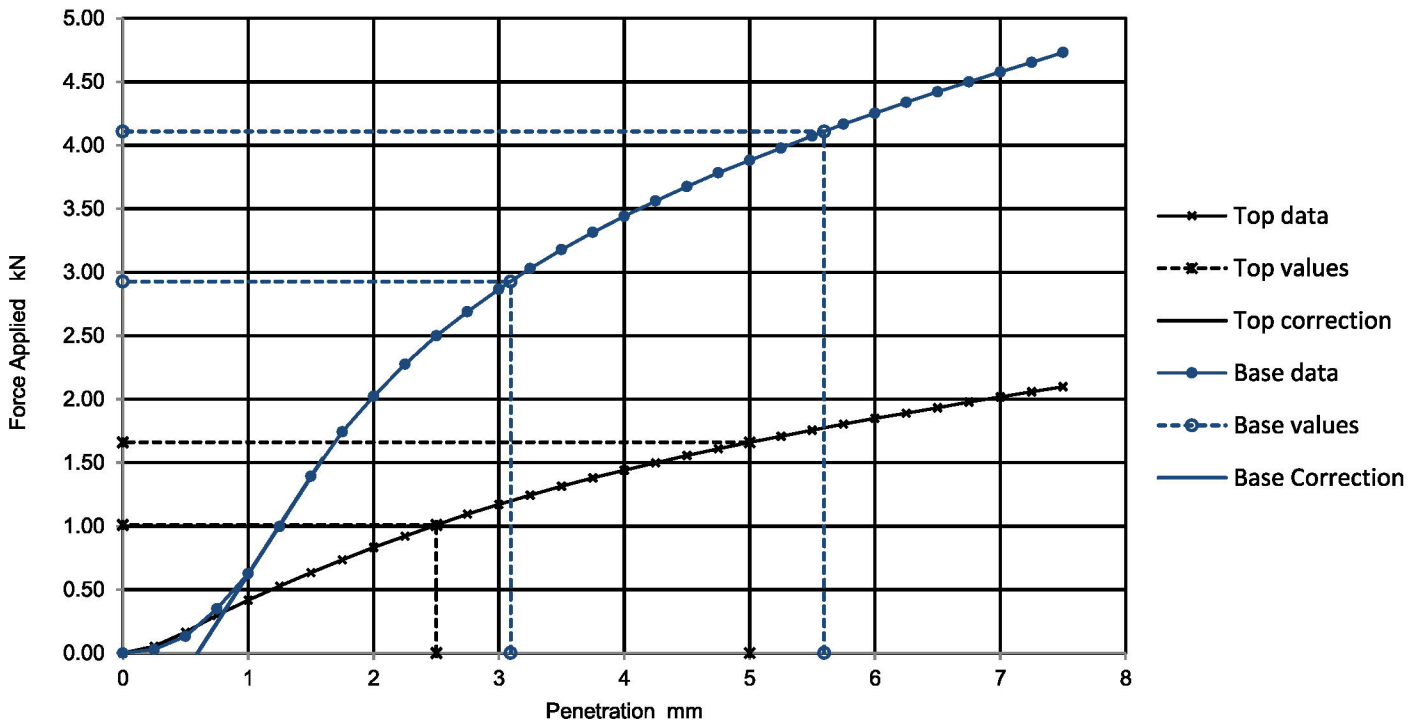
Soaking details  
Period of soaking 9 days  
Time to surface 3 days  
Amount of swell recorded 1.77 mm  
Dry density after soaking 1.99 Mg/m<sup>3</sup>

Material retained on 20mm sieve removed 54 %

Initial Specimen details  
Bulk density 2.23 Mg/m<sup>3</sup>  
Dry density 2.01 Mg/m<sup>3</sup>  
Moisture content 11 %

Surcharge applied 8 kg  
4.9 kPa

Force v Penetration Plots



### Results

	Curve correction applied	CBR Values, %				Moisture Content %
		2.5mm	5mm	Highest	Average	
TOP	No	7.7	8.3	8.3		15
BASE	Yes	22.0	21.0	22.0		12

Remarks: CBR tested at OMC = 11% of MC. Test/ Specimen specific remarks: Test carried out with > 25 % retained on 20mm as per clause 7.2.1.2

Signed:



Monika Siewior  
Reporting Specialist  
for and on behalf of i2 Analytical Ltd

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# TEST CERTIFICATE

## DETERMINATION OF THE CALIFORNIA BEARING RATIO (CBR) SOAKED

Tested in Accordance with: BS 1377-4: 1990: Clause 7

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
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Environmental Science

4041

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NN6 8LD

Contact: Nathan Thompson  
Site Address: Begbroke

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

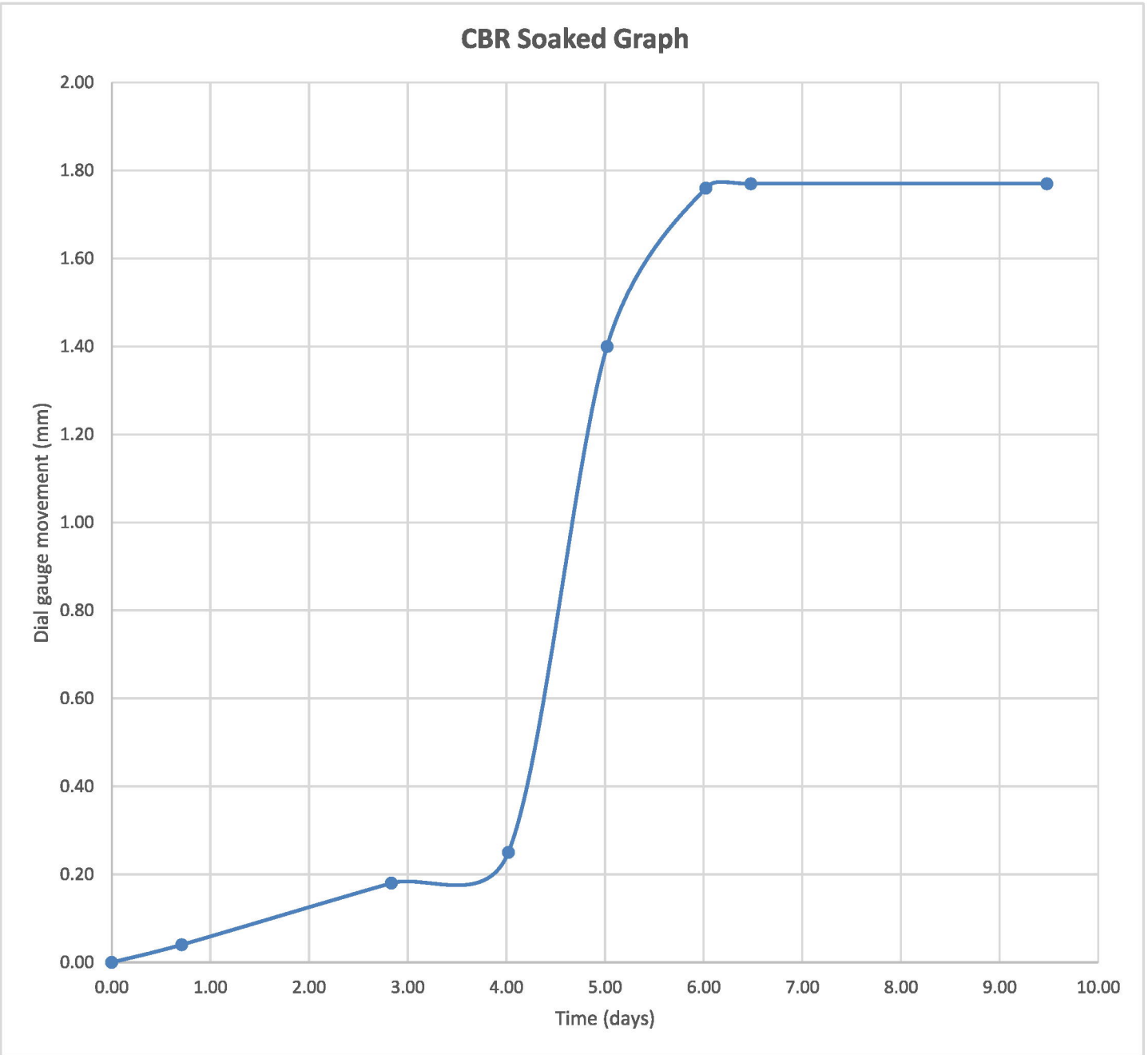
Client Reference: 19114  
Job Number: 22-86688  
Date Sampled: 09/09/2022  
Date Received: 26/09/2022  
Date Tested: 07/10/2022  
Sampled By: Not Given

### Test Results:

Laboratory Reference: 2439920  
Hole No.: TP218  
Sample Reference: Not Given  
Sample Description: Yellowish brown sandy silty clayey GRAVEL

Depth Top [m]: 0.70  
Depth Base [m]: Not Given  
Sample Type: D

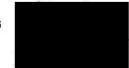
### CBR Soaked Graph



Remarks: CBR tested at OMC = 11% of MC. Test/ Specimen specific remarks: Test carried out with > 25 % retained on 20mm as per clause 7.2.1.2

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# TEST CERTIFICATE

## DETERMINATION OF THE CALIFORNIA BEARING RATIO (CBR) SOAKED

Tested in Accordance with: BS 1377-4: 1990: Clause 7

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Environmental Science

4041

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Client Address: 2-4 Hawthorne Park, Holdenby Road,  
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NN6 8LD  
Contact: Nathan Thompson  
Site Address: Begbroke

Client Reference: 19114  
Job Number: 22-86688  
Date Sampled: 09/09/2022  
Date Received: 26/09/2022  
Date Tested: 08/10/2022  
Sampled By: Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test Results:

Laboratory Reference: 2439921  
Hole No.: TP221  
Sample Reference: Not Given  
Sample Description: Orangish brown clayey very gravelly SAND

Depth Top [m]: 2.20  
Depth Base [m]: 2.30  
Sample Type: D

### Specimen Preparation:

Condition Remoulded  
Details Recompacted with specified standard effort using 4.5kg rammer

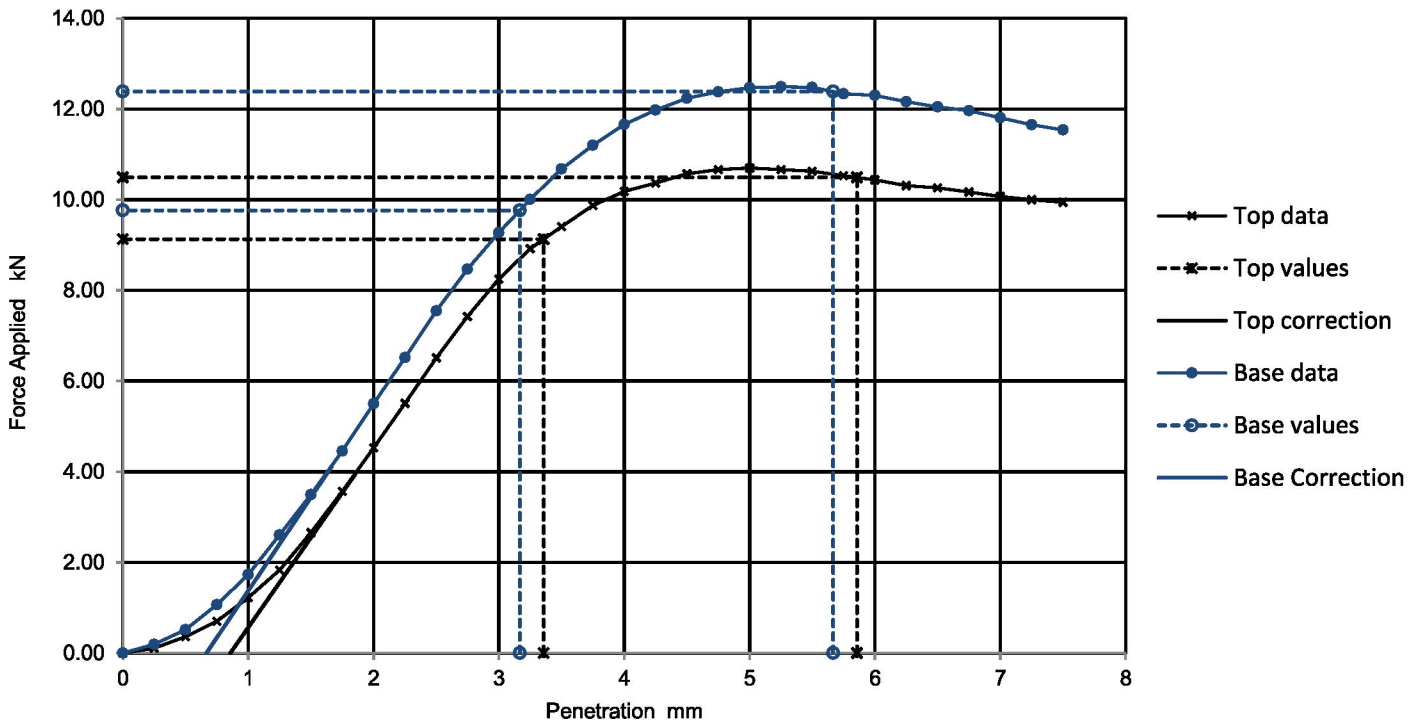
Soaking details  
Period of soaking 6 days  
Time to surface 3 days  
Amount of swell recorded 0.03 mm  
Dry density after soaking 2.06 Mg/m<sup>3</sup>

Material retained on 20mm sieve removed 5 %

Initial Specimen details  
Bulk density 2.28 Mg/m<sup>3</sup>  
Dry density 2.07 Mg/m<sup>3</sup>  
Moisture content 10 %

Surcharge applied 8 kg  
4.9 kPa

Force v Penetration Plots



### Results

	Curve correction applied	CBR Values, %				Moisture Content %
		2.5mm	5mm	Highest	Average	
TOP	Yes	69.0	52.0	69.0	72.0	11
BASE	Yes	74.0	62.0	74.0		10

Remarks: CBR tested at OMC = 10% of MC.

Test/ Specimen specific remarks:

Signed:

Monika Siewior  
Reporting Specialist  
for and on behalf of i2 Analytical Ltd

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# TEST CERTIFICATE

## DETERMINATION OF THE CALIFORNIA BEARING RATIO (CBR) SOAKED

Tested in Accordance with: BS 1377-4: 1990: Clause 7

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4041

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NN6 8LD  
Contact: Nathan Thompson  
Site Address: Begbroke

Client Reference: 19114  
Job Number: 22-86688  
Date Sampled: 09/09/2022  
Date Received: 26/09/2022  
Date Tested: 08/10/2022  
Sampled By: Not Given

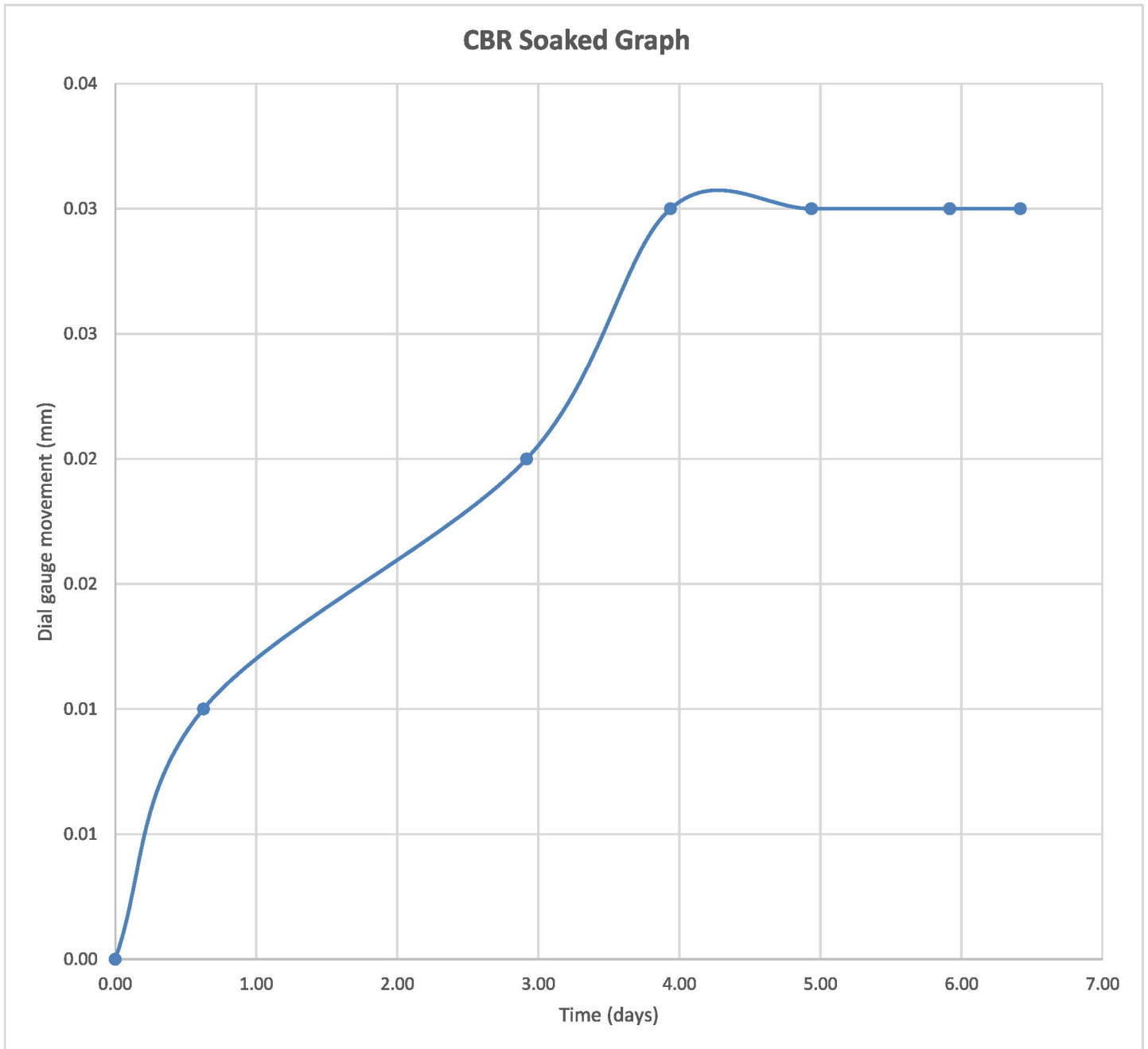
Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test Results:

Laboratory Reference: 2439921  
Hole No.: TP221  
Sample Reference: Not Given  
Sample Description: Orangish brown clayey very gravelly SAND

Depth Top [m]: 2.20  
Depth Base [m]: 2.30  
Sample Type: D

### CBR Soaked Graph



Remarks: CBR tested at OMC = 10% of MC.

Test/ Specimen  
specific remarks:

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Signed:



Monika Siewior  
Reporting Specialist  
for and on behalf of i2 Analytical Ltd



# TEST CERTIFICATE

## DETERMINATION OF UNDRAINED SHEAR STRENGTH AT EACH COMPACTION POINT USING HAND VANE APPARATUS

Tested in Accordance with: Guideline for Hand Shear Vane Test\*

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

Client: Hydrock Consultants Ltd  
Client Address: 2-4 Hawthorne Park, Holdenby Road,  
Spratton, Northamptonshire,  
NN6 8LD

Contact: Nathan Thompson  
Site Address: Begbroke

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

Client Reference: 19114  
Job Number: 22-86688  
Date Sampled: 09/09/2022  
Date Received: 26/09/2022  
Date Tested: 07/10/2022  
Sampled By: Not Given

### Test Results:

Laboratory Reference: 2439917  
Hole No.: TP201  
Sample Reference: Not Given  
Soil Description: Orangish brown silty clayey very gravelly SAND

Depth Top [m]: 0.70  
Depth Base [m]: Not Given  
Sample Type: D

Moisture Content %	Shear Vane Reading					Tv kPa
	1 kPa	2 kPa	3 kPa	4 kPa	Average kPa	
5.2	UTP	UTP	UTP	UTP	UTP	
7.1	UTP	UTP	UTP	UTP	UTP	
9.1	UTP	UTP	UTP	UTP	UTP	
12	UTP	UTP	UTP	UTP	UTP	
14	84	70	66	52	68	

Note: UTP - Unable To Penetrate; \* - Guideline for Hand Held Shear Vane Test, New Zealand Geotechnical Society INC, August 2001

Remarks: Compacted by: Heavy Compaction 4.5kg (BS1377:Part 4:1990).

Opinions and interpretations expressed herein are outside of the scope of the UKAS Accreditation. This report may not be reproduced other than in full without the prior written approval of the issuing laboratory. The results included within the report relate only to the sample(s) submitted for testing.

Signed:



Monika Siewior  
Reporting Specialist  
for and on behalf of i2 Analytical Ltd

# TEST CERTIFICATE

## DETERMINATION OF UNDRAINED SHEAR STRENGTH AT EACH COMPACTION POINT USING HAND VANE APPARATUS

Tested in Accordance with: Guideline for Hand Shear Vane Test\*

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

Client: Hydrock Consultants Ltd  
Client Address: 2-4 Hawthorne Park, Holdenby Road,  
Spratton, Northamptonshire,  
NN6 8LD

Contact: Nathan Thompson  
Site Address: Begbroke

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

Client Reference: 19114  
Job Number: 22-86688  
Date Sampled: 09/09/2022  
Date Received: 26/09/2022  
Date Tested: 07/10/2022  
Sampled By: Not Given

### Test Results:

Laboratory Reference: 2439918  
Hole No.: TP203  
Sample Reference: Not Given  
Soil Description: Brownish grey slightly sandy very silty CLAY

Depth Top [m]: 1.30  
Depth Base [m]: Not Given  
Sample Type: D

Moisture Content %	Shear Vane Reading					Tv kPa
	1 kPa	2 kPa	3 kPa	4 kPa	Average kPa	
14	UTP	UTP	UTP	UTP	UTP	
17	UTP	UTP	UTP	UTP	UTP	
20	UTP	UTP	UTP	UTP	UTP	
22	UTP	UTP	UTP	UTP	UTP	
23	UTP	UTP	UTP	UTP	UTP	

Note: UTP - Unable To Penetrate; \* - Guideline for Hand Held Shear Vane Test, New Zealand Geotechnical Society INC, August 2001

Remarks: Compacted by: Heavy Compaction 4.5kg (BS1377:Part 4:1990).

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Signed:



Monika Siewior  
Reporting Specialist  
for and on behalf of i2 Analytical Ltd

Page 1 of 1

Date Reported: 18/10/2022

GF 275.12

# TEST CERTIFICATE

## DETERMINATION OF UNDRAINED SHEAR STRENGTH AT EACH COMPACTION POINT USING HAND VANE APPARATUS

Tested in Accordance with: Guideline for Hand Shear Vane Test\*

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

Client: Hydrock Consultants Ltd  
Client Address: 2-4 Hawthorne Park, Holdenby Road,  
Spratton, Northamptonshire,  
NN6 8LD

Contact: Nathan Thompson  
Site Address: Begbroke

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

Client Reference: 19114  
Job Number: 22-86688  
Date Sampled: 09/09/2022  
Date Received: 26/09/2022  
Date Tested: 07/10/2022  
Sampled By: Not Given

### Test Results:

Laboratory Reference: 2439919  
Hole No.: TP208  
Sample Reference: Not Given  
Soil Description: Orangish brown silty clayey very gravelly SAND

Depth Top [m]: 0.60  
Depth Base [m]: 0.70  
Sample Type: D

Moisture Content %	Shear Vane Reading					Tv kPa
	1 kPa	2 kPa	3 kPa	4 kPa	Average kPa	
8.7	UTP	UTP	UTP	UTP	UTP	
11	UTP	UTP	UTP	UTP	UTP	
12	UTP	UTP	UTP	UTP	UTP	
14	66	64	60	60	63	
16	24	18	20	14	19	

Note: UTP - Unable To Penetrate; \* - Guideline for Hand Held Shear Vane Test, New Zealand Geotechnical Society INC, August 2001

Remarks: Compacted by: Heavy Compaction 4.5kg (BS1377:Part 4:1990).

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Signed:



Monika Siewior  
Reporting Specialist  
for and on behalf of i2 Analytical Ltd

# TEST CERTIFICATE

## DETERMINATION OF UNDRAINED SHEAR STRENGTH AT EACH COMPACTION POINT USING HAND VANE APPARATUS

Tested in Accordance with: Guideline for Hand Shear Vane Test\*

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

Client: Hydrock Consultants Ltd  
Client Address: 2-4 Hawthorne Park, Holdenby Road,  
Spratton, Northamptonshire,  
NN6 8LD

Contact: Nathan Thompson  
Site Address: Begbroke

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

Client Reference: 19114  
Job Number: 22-86688  
Date Sampled: 09/09/2022  
Date Received: 26/09/2022  
Date Tested: 07/10/2022  
Sampled By: Not Given

### Test Results:

Laboratory Reference: 2439920  
Hole No.: TP218  
Sample Reference: Not Given  
Soil Description: Yellowish brown sandy silty clayey GRAVEL

Depth Top [m]: 0.70  
Depth Base [m]: Not Given  
Sample Type: D

Moisture Content %	Shear Vane Reading					Tv kPa
	1 kPa	2 kPa	3 kPa	4 kPa	Average kPa	
9.0	UTP	UTP	UTP	UTP	UTP	
10	UTP	UTP	UTP	UTP	UTP	
11	UTP	UTP	UTP	UTP	UTP	
13	UTP	UTP	UTP	UTP	UTP	
14	104	90	110	90	99	

Note: UTP - Unable To Penetrate; \* - Guideline for Hand Held Shear Vane Test, New Zealand Geotechnical Society INC, August 2001

Remarks: Compacted by: Heavy Compaction 4.5kg (BS1377:Part 4:1990).

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Signed:



Monika Siewior  
Reporting Specialist  
for and on behalf of i2 Analytical Ltd

Page 1 of 1

Date Reported: 18/10/2022

GF 275.12

# TEST CERTIFICATE

## DETERMINATION OF UNDRAINED SHEAR STRENGTH AT EACH COMPACTION POINT USING HAND VANE APPARATUS

Tested in Accordance with: Guideline for Hand Shear Vane Test\*

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

Client: Hydrock Consultants Ltd  
Client Address: 2-4 Hawthorne Park, Holdenby Road,  
Spratton, Northamptonshire,  
NN6 8LD

Contact: Nathan Thompson  
Site Address: Begbroke

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

Client Reference: 19114  
Job Number: 22-86688  
Date Sampled: 09/09/2022  
Date Received: 26/09/2022  
Date Tested: 07/10/2022  
Sampled By: Not Given

### Test Results:

Laboratory Reference: 2439921  
Hole No.: TP221  
Sample Reference: Not Given  
Soil Description: Orangish brown clayey very gravelly SAND

Depth Top [m]: 2.20  
Depth Base [m]: 2.30  
Sample Type: D

Moisture Content %	Shear Vane Reading					Tv kPa
	1 kPa	2 kPa	3 kPa	4 kPa	Average kPa	
5.2	UTP	UTP	UTP	UTP	UTP	
7.4	UTP	UTP	UTP	UTP	UTP	
10	UTP	UTP	UTP	UTP	UTP	
12	UTP	UTP	UTP	UTP	UTP	
14	34	16	22	28	25	

Note: UTP - Unable To Penetrate; \* - Guideline for Hand Held Shear Vane Test, New Zealand Geotechnical Society INC, August 2001

Remarks: Compacted by: Heavy Compaction 4.5kg (BS1377:Part 4:1990).

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Signed:

Monika Siewior  
Reporting Specialist  
for and on behalf of i2 Analytical Ltd

4041

Tested in Accordance with: BS 1377-7: 1990: Clause 8

Client: Hydrock Consultants Ltd  
Client Address: 2-4 Hawthorne Park, Holdenby Road,  
Spratton, Northamptonshire,  
NN6 8LD  
Contact: Nathan Thompson  
Site Address: Begbroke

Client Reference: 19114  
Job Number: 22-86688  
Date Sampled: 09/09/2022  
Date Received: 26/09/2022  
Date Tested: 10/10/2022  
Sampled By: Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

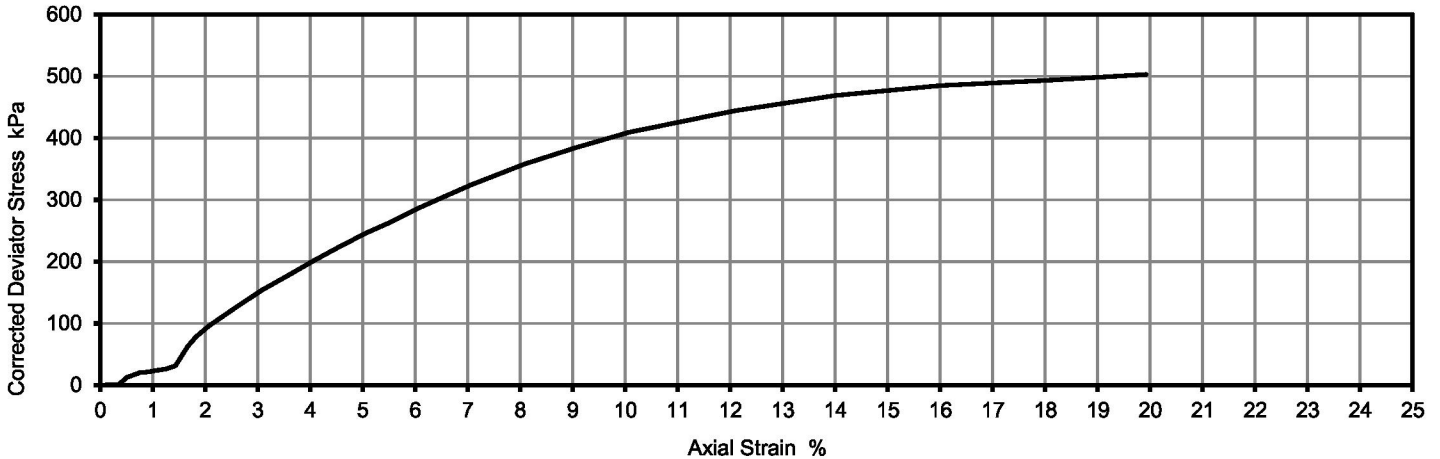
### Test Results:

Laboratory Reference: 2439917  
Hole No.: TP201  
Sample Reference: Not Given  
Sample Description: Orangish brown silty clayey very gravelly SAND  
Sample Preparation: Recompacted at OMC using 4.5kg rammer in accordance with Table 6 of BS1377-1:2016.

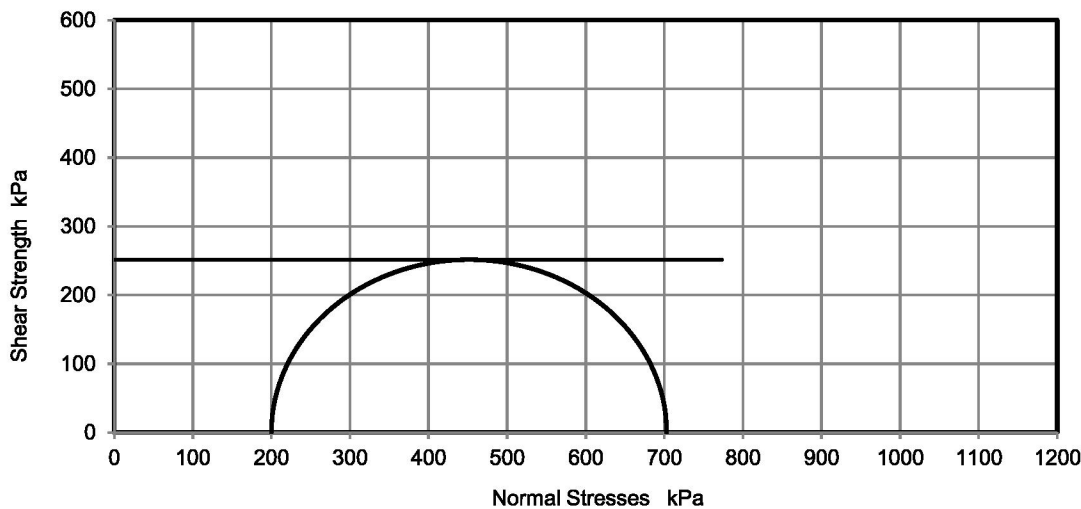
Depth Top [m]: 0.70  
Depth Base [m]: Not Given  
Sample Type: D

Test Number	1	Rate of Strain	1.00	%/min
Length	199.33	Cell Pressure	200	kPa
Diameter	102.07	Axial Strain at failure	19.9	%
Bulk Density	2.38	Deviator Stress, $(\sigma_1 - \sigma_3)_f$	503	kPa
Moisture Content	9.0	Undrained Shear Strength, $c_u$	251	kPa $\frac{1}{2}(\sigma_1 - \sigma_3)_f$
Dry Density	2.19	Mode of Failure	Compound	
Membrane Correction	1.01	Membrane thickness	0.27	mm

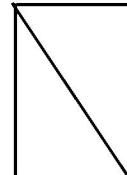
### Deviator Stress v Axial Strain



### Mohr Circles



Position within sample



Note: Deviator stress corrected for area change and membrane effects. Mohr circles and their interpretation is not covered by BS1377. This is provided for information only.

### Remarks:

Signed:

Monika Siewior  
Reporting Specialist  
for and on behalf of i2 Analytical Ltd

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## DETERMINATION OF THE UNDRAINED SHEAR STRENGTH IN TRIAXIAL COMPRESSION WITHOUT MEASUREMENT OF PORE PRESSURE

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

4041

Tested in Accordance with: BS 1377-7: 1990: Clause 8

Client: Hydrock Consultants Ltd  
Client Address: 2-4 Hawthorne Park, Holdenby Road,  
Spratton, Northamptonshire,  
NN6 8LD  
Contact: Nathan Thompson  
Site Address: Begbroke

Client Reference: 19114  
Job Number: 22-86688  
Date Sampled: 09/09/2022  
Date Received: 26/09/2022  
Date Tested: 10/10/2022  
Sampled By: Not Given

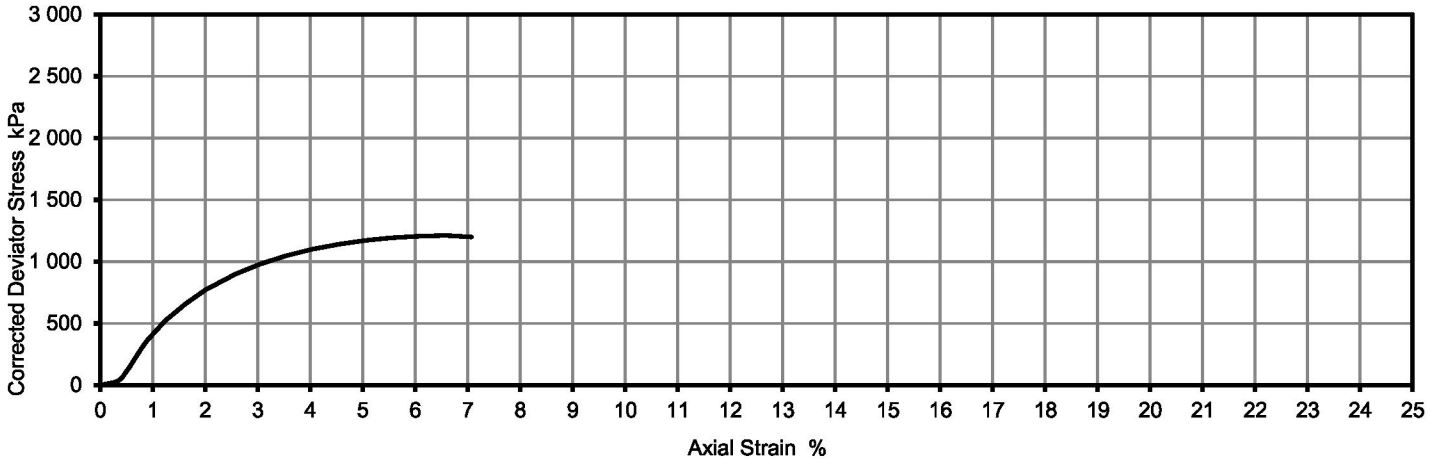
*Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland*

**Test Results:**

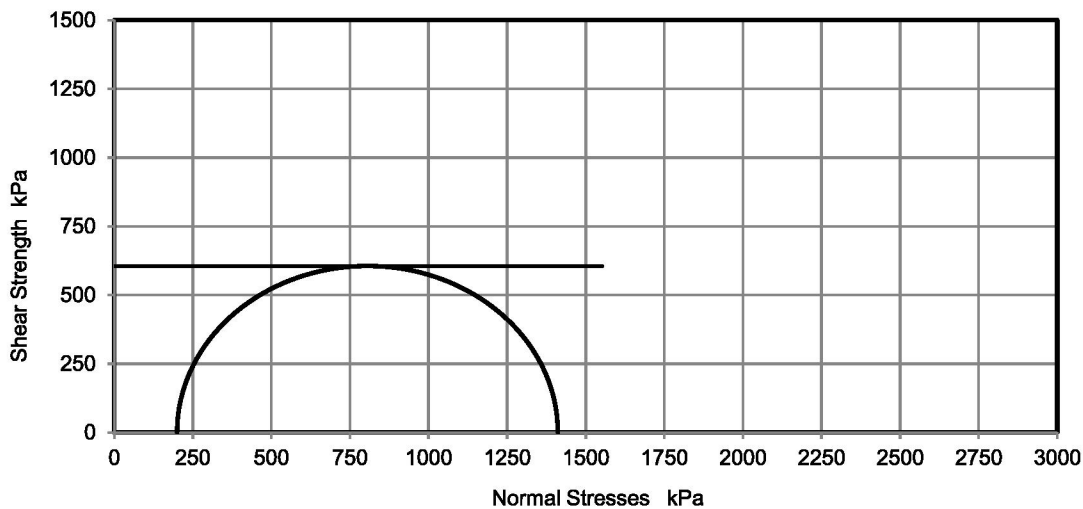
Laboratory Reference: 2439918	Depth Top [m]: 1.30
Hole No.: TP203	Depth Base [m]: Not Given
Sample Reference: Not Given	Sample Type: D
Sample Description: Brownish grey slightly sandy very silty CLAY	
Sample Preparation: Recompacted at OMC using 4.5kg rammer in accordance with Table 6 of BS1377-1:2016.	

Test Number	1	Rate of Strain	1.00	%/min
Length	201.87	Cell Pressure	200	kPa
Diameter	100.70	Axial Strain at failure	6.6	%
Bulk Density	2.07	Deviator Stress, $(\sigma_1 - \sigma_3)_f$	1211	kPa
Moisture Content	19	Undrained Shear Strength, $c_u$	606	kPa $\frac{1}{2}(\sigma_1 - \sigma_3)_f$
Dry Density	1.74	Mode of Failure	Compound	
Membrane Correction	0.43	Membrane thickness	0.26	mm

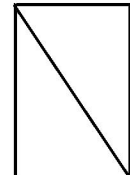
**Deviator Stress v Axial Strain**



**Mohr Circles**



Position within sample



Note: Deviator stress corrected for area change and membrane effects. Mohr circles and their interpretation is not covered by BS1377. This is provided for information only.

**Remarks:**

**Signed:**



Monika Siewior  
Reporting Specialist  
for and on behalf of i2 Analytical Ltd

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4041

Tested in Accordance with: BS 1377-7: 1990: Clause 8

Client: Hydrock Consultants Ltd  
Client Address: 2-4 Hawthorne Park, Holdenby Road,  
Spratton, Northamptonshire,  
NN6 8LD  
Contact: Nathan Thompson  
Site Address: Begbroke

Client Reference: 19114  
Job Number: 22-86688  
Date Sampled: 09/09/2022  
Date Received: 26/09/2022  
Date Tested: 10/10/2022  
Sampled By: Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

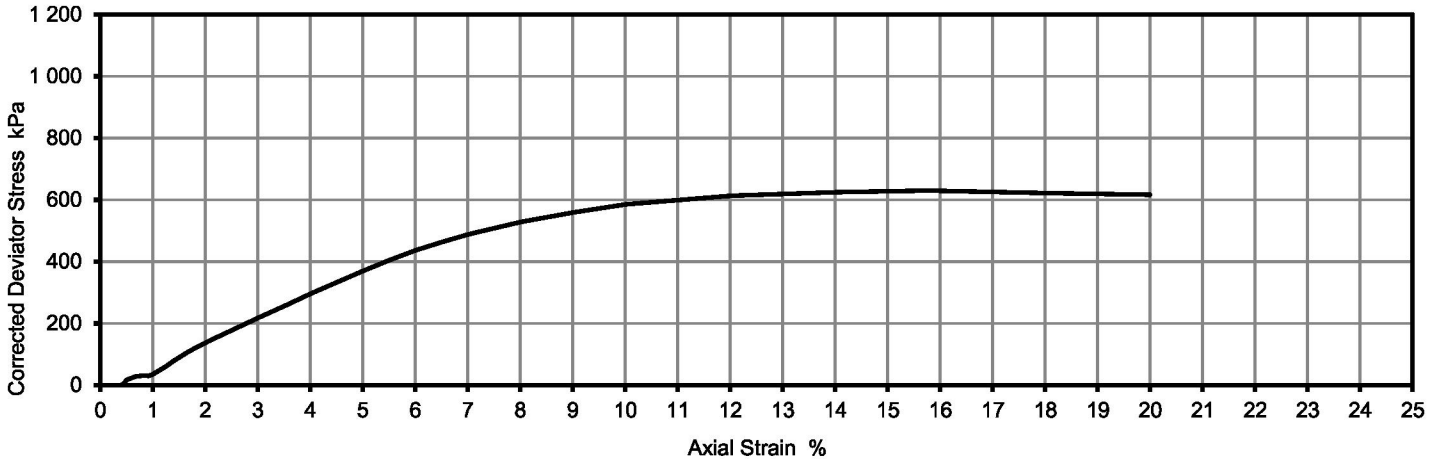
### Test Results:

Laboratory Reference: 2439919  
Hole No.: TP208  
Sample Reference: Not Given  
Sample Description: Orangish brown silty clayey very gravelly SAND  
Sample Preparation: Recompacted at OMC using 4.5kg rammer in accordance with Table 6 of BS1377-1:2016.

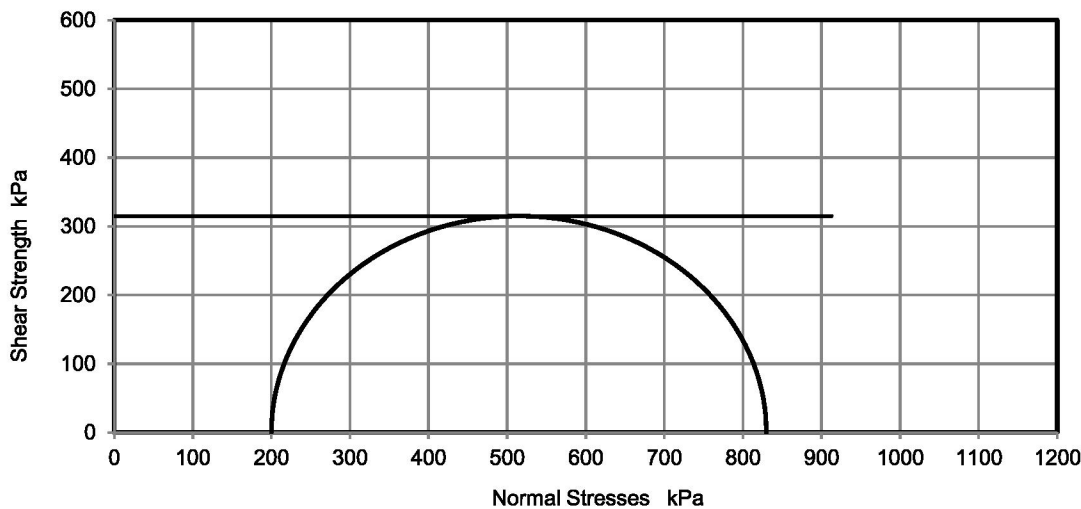
Depth Top [m]: 0.60  
Depth Base [m]: 0.70  
Sample Type: D

Test Number	1	Rate of Strain	1.00	%/min
Length	199.20	Cell Pressure	200	kPa
Diameter	101.15	Axial Strain at failure	15.8	%
Bulk Density	2.35	Deviator Stress, $(\sigma_1 - \sigma_3)_f$	630	kPa
Moisture Content	12	Undrained Shear Strength, $c_u$	315	kPa $\frac{1}{2}(\sigma_1 - \sigma_3)_f$
Dry Density	2.10	Mode of Failure	Compound	
Membrane Correction	0.88	Membrane thickness	0.28	mm

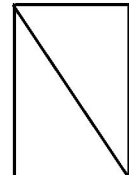
### Deviator Stress v Axial Strain



### Mohr Circles



Position within sample



Note: Deviator stress corrected for area change and membrane effects. Mohr circles and their interpretation is not covered by BS1377. This is provided for information only.

### Remarks:

Signed:

Monika Siewior  
Reporting Specialist  
for and on behalf of i2 Analytical Ltd

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## DETERMINATION OF THE UNDRAINED SHEAR STRENGTH IN TRIAXIAL COMPRESSION WITHOUT MEASUREMENT OF PORE PRESSURE

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

4041

Tested in Accordance with: BS 1377-7: 1990: Clause 8

Client: Hydrock Consultants Ltd  
Client Address: 2-4 Hawthorne Park, Holdenby Road,  
Spratton, Northamptonshire,  
NN6 8LD  
Contact: Nathan Thompson  
Site Address: Begbroke

Client Reference: 19114  
Job Number: 22-86688  
Date Sampled: 09/09/2022  
Date Received: 26/09/2022  
Date Tested: 10/10/2022  
Sampled By: Not Given

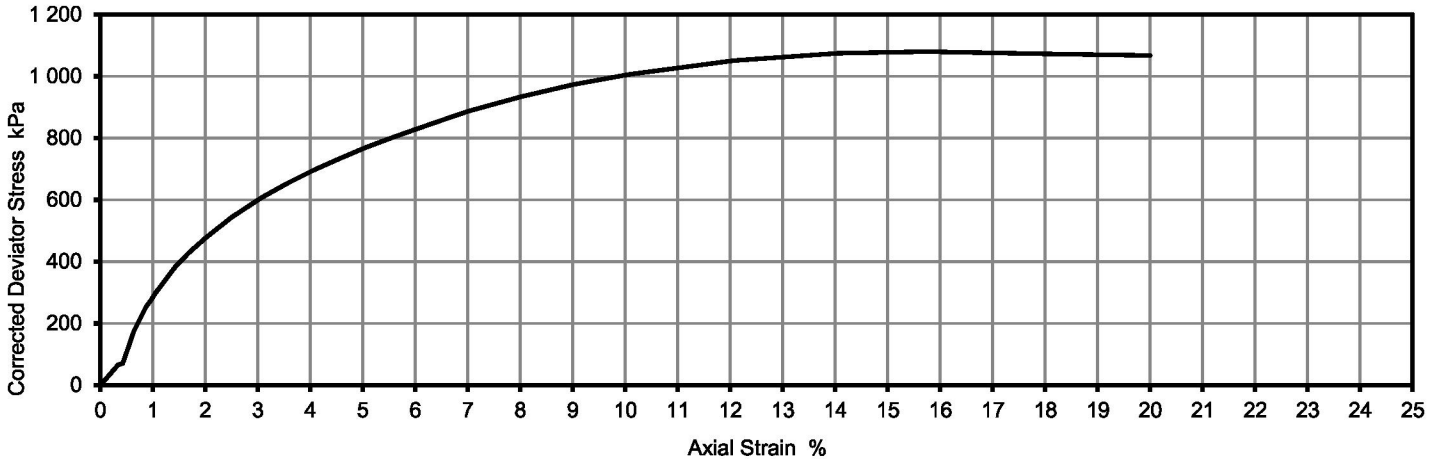
*Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland*

**Test Results:**

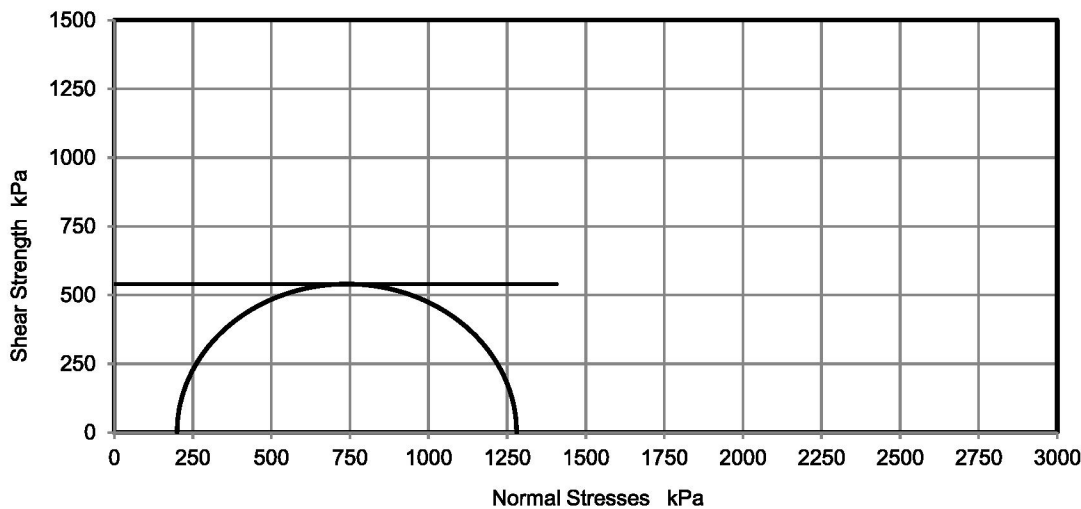
Laboratory Reference: 2439920	Depth Top [m]: 0.70
Hole No.: TP218	Depth Base [m]: Not Given
Sample Reference: Not Given	Sample Type: D
Sample Description: Yellowish brown sandy silty clayey GRAVEL	
Sample Preparation: Recompacted at OMC using 4.5kg rammer in accordance with Table 6 of BS1377-1:2016.	

Test Number	1	Rate of Strain	1.00	%/min
Length	200.91	Cell Pressure	200	kPa
Diameter	100.78	Axial Strain at failure	15.9	%
Bulk Density	2.29	Deviator Stress, ( $\sigma_1 - \sigma_3$ ) <sub>f</sub>	1080	kPa
Moisture Content	11	Undrained Shear Strength, cu	540	kPa $\frac{1}{2}(\sigma_1 - \sigma_3)_f$
Dry Density	2.07	Mode of Failure	Compound	
Membrane Correction	0.85	Membrane thickness	0.27	mm

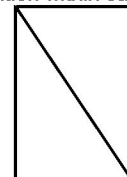
**Deviator Stress v Axial Strain**



**Mohr Circles**



Position within sample



Note: Deviator stress corrected for area change and membrane effects. Mohr circles and their interpretation is not covered by BS1377. This is provided for information only.

**Remarks:**

**Signed:**

Monika Siewior  
Reporting Specialist  
for and on behalf of i2 Analytical Ltd

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4041

Tested in Accordance with: BS 1377-7: 1990: Clause 8

Client: Hydrock Consultants Ltd  
Client Address: 2-4 Hawthorne Park, Holdenby Road,  
Spratton, Northamptonshire,  
NN6 8LD  
Contact: Nathan Thompson  
Site Address: Begbroke

Client Reference: 19114  
Job Number: 22-86688  
Date Sampled: 09/09/2022  
Date Received: 26/09/2022  
Date Tested: 10/10/2022  
Sampled By: Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

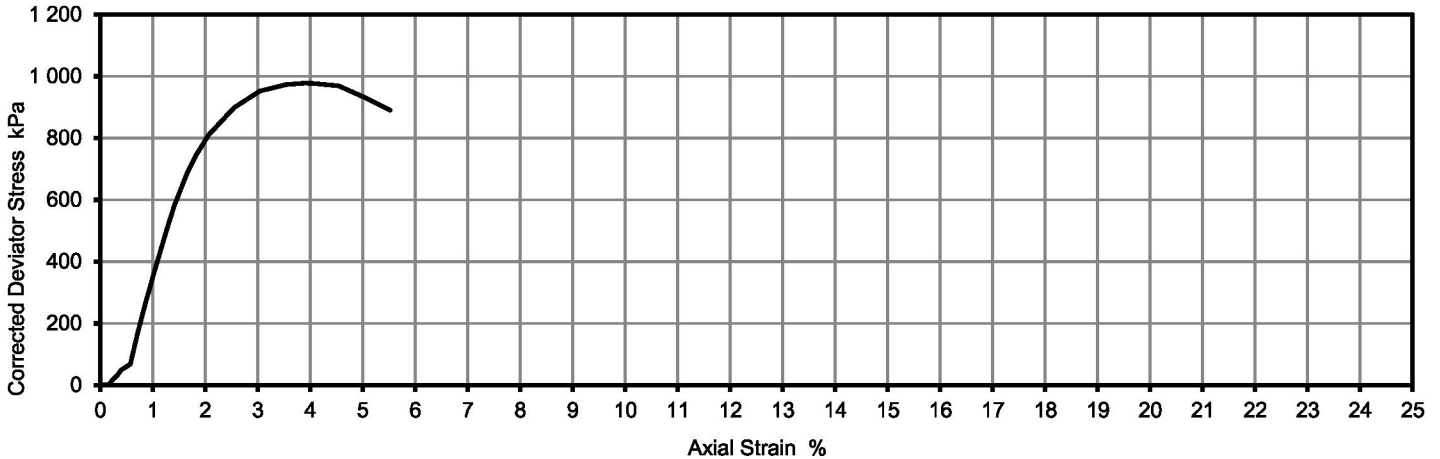
**Test Results:**

Laboratory Reference: 2439921  
Hole No.: TP221  
Sample Reference: Not Given  
Sample Description: Orangish brown clayey very gravelly SAND  
Sample Preparation: Recompacted at OMC using 4.5kg rammer in accordance with Table 6 of BS1377-1:2016.

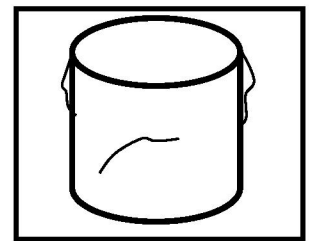
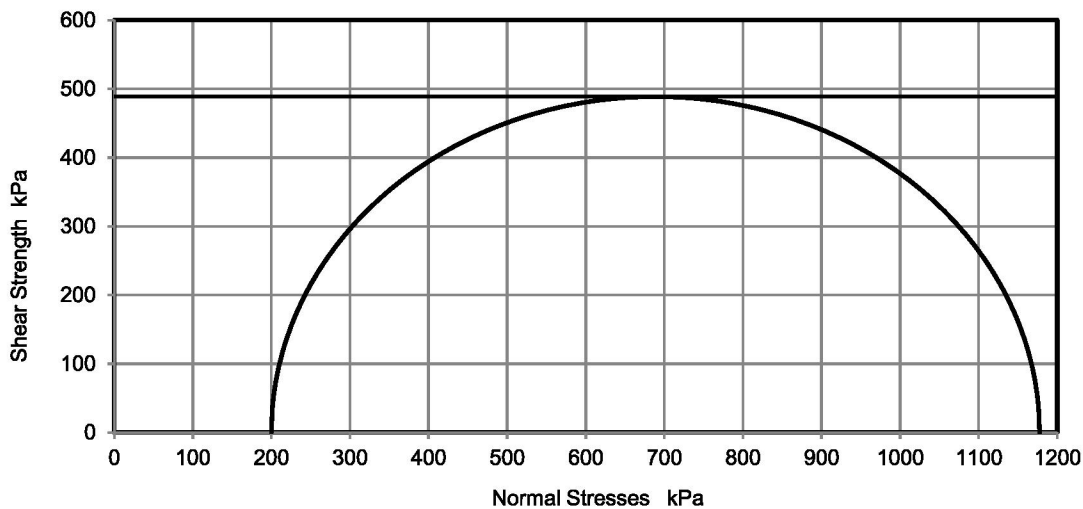
Depth Top [m]: 2.20  
Depth Base [m]: 2.30  
Sample Type: D

Test Number	1	Rate of Strain	1.00	%/min
Length	198.69	Cell Pressure	200	kPa
Diameter	100.57	Axial Strain at failure	3.9	%
Bulk Density	2.26	Deviator Stress, $(\sigma_1 - \sigma_3)_f$	978	kPa
Moisture Content	10	Undrained Shear Strength, $c_u$	489	kPa $\frac{1}{2}(\sigma_1 - \sigma_3)_f$
Dry Density	2.05	Mode of Failure	Compound	
Membrane Correction	0.27	Membrane thickness	0.26	mm

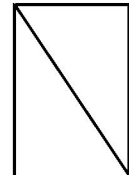
**Deviator Stress v Axial Strain**



**Mohr Circles**



Position within sample



Note: Deviator stress corrected for area change and membrane effects. Mohr circles and their interpretation is not covered by BS1377. This is provided for information only.

Remarks: Unable to take a photo.

Signed:



Monika Siewior  
Reporting Specialist  
for and on behalf of i2 Analytical Ltd



**Nathan Thompson**  
Hydrock Consultants Ltd  
2-4 Hawthorne Park  
Holdenby Road  
Spratton  
Northamptonshire  
NN6 8LD

**t:** 01604842888  
**f:** 01604842666  
**e:** nathanthompson@hydrock.com

i2 Analytical Ltd.  
7 Woodshots Meadow,  
Croxley Green  
Business Park,  
Watford,  
Herts,  
WD18 8YS

**t:** 01923 225404  
**f:** 01923 237404  
**e:** reception@i2analytical.com

## **Analytical Report Number : 22-86699**

<b>Project / Site name:</b>	Begbroke	<b>Samples received on:</b>	26/09/2022
<b>Your job number:</b>	19114	<b>Samples instructed on/ Analysis started on:</b>	27/09/2022
<b>Your order number:</b>	PO20272	<b>Analysis completed by:</b>	11/10/2022
<b>Report Issue Number:</b>	1	<b>Report issued on:</b>	11/10/2022
<b>Samples Analysed:</b>	31 soil samples		

**Signed:** 

Anna Goc  
Junior Reporting Specialist  
**For & on behalf of i2 Analytical Ltd.**

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting

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Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement. Application of uncertainty of measurement would provide a range within which the true result lies. An estimate of measurement uncertainty can be provided on request.

Analytical Report Number: 22-86699  
 Project / Site name: Begbroke  
 Your Order No: PO20272

Lab Sample Number	2439989	2439990	2439991	2439992	2439993			
Sample Reference	TP201	TP203	TP208	TP218	TP221			
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied			
Depth (m)	0.70	1.30	0.60-0.70	0.70	2.20-2.30			
Date Sampled	09/09/2022	06/09/2022	05/09/2022	09/09/2022	05/09/2022			
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied			
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	6.9	18	5.2	11	5.9
Total mass of sample received	kg	0.001	NONE	0.4	0.4	0.4	0.4	0.3

#### General Inorganics

pH - Automated	pH Units	N/A	MCERTS	8	7.9	7.7	7.8	7.8
Total Sulphate as SO4	mg/kg	50	MCERTS	300	8100	240	100	300
Total Sulphate as SO4	%	0.005	MCERTS	0.03	0.807	0.024	0.01	0.03
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.009	0.013	0.0088	0.0069	0.012
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	9	12.6	8.8	6.9	11.7
Water Soluble Chloride (2:1)	mg/kg	1	MCERTS	11	3.6	11	2.7	4.3
Water Soluble Chloride (2:1) (leachate equivalent)	mg/l	0.5	MCERTS	5.3	1.8	5.3	1.3	2.2
Total Sulphur	mg/kg	50	MCERTS	170	3500	180	75	190
Total Sulphur	%	0.005	MCERTS	0.017	0.354	0.018	0.007	0.019
Ammoniacal Nitrogen as NH4	mg/kg	0.5	MCERTS	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Ammonium as NH4 (10:1 leachate equivalent)	mg/l	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Organic Matter (automated)	%	0.1	MCERTS	0.4	0.6	0.6	0.4	0.2
Water Soluble Nitrate (2:1) as NO3	mg/kg	2	NONE	5.2	12	17	6.2	7.9
Water Soluble Nitrate (2:1) as NO3 (leachate equivalent)	mg/l	5	NONE	< 5.0	6.2	8.5	< 5.0	< 5.0

#### Heavy Metals / Metalloids

Magnesium (water soluble)	mg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Magnesium (leachate equivalent)	mg/l	2.5	NONE	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5

U/S = Unsuitable Sample I/S = Insufficient Sample

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 Project / Site name: Begbroke  
 Your Order No: PO20272

Lab Sample Number	2439994	2439995	2439996	2439997	2439998			
Sample Reference	BH202	BH202	TP201	TP207	TP209			
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied			
Depth (m)	2.00-2.45	6.30-6.60	1.80	0.70	3.40			
Date Sampled	31/08/2022	31/08/2022	09/09/2022	06/09/2022	06/09/2022			
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied			
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	27	< 0.1
Moisture Content	%	0.01	NONE	13	13	17	3.2	16
Total mass of sample received	kg	0.001	NONE	0.3	0.3	0.2	0.2	0.2

#### General Inorganics

pH - Automated	pH Units	N/A	MCERTS	7.8	7.3	7.5	8.4	7.7
Total Sulphate as SO <sub>4</sub>	mg/kg	50	MCERTS	270	6900	2600	650	210
Total Sulphate as SO <sub>4</sub>	%	0.005	MCERTS	0.027	0.69	0.26	0.065	0.021
Water Soluble SO <sub>4</sub> 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.037	3.1	0.031	0.0079	0.015
Water Soluble SO <sub>4</sub> 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	36.9	3070	30.6	7.9	15.4
Water Soluble Chloride (2:1)	mg/kg	1	MCERTS	7.9	660	8.2	3.3	3.6
Water Soluble Chloride (2:1) (leachate equivalent)	mg/l	0.5	MCERTS	4	330	4.1	1.7	1.8
Total Sulphur	mg/kg	50	MCERTS	290	43000	1300	500	160
Total Sulphur	%	0.005	MCERTS	0.029	4.31	0.129	0.05	0.016
Ammoniacal Nitrogen as NH <sub>4</sub>	mg/kg	0.5	MCERTS	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Ammonium as NH <sub>4</sub> (10:1 leachate equivalent)	mg/l	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Organic Matter (automated)	%	0.1	MCERTS	-	-	-	-	-
Water Soluble Nitrate (2:1) as NO <sub>3</sub>	mg/kg	2	NONE	6.3	< 2.0	13	9.6	7.4
Water Soluble Nitrate (2:1) as NO <sub>3</sub> (leachate equivalent)	mg/l	5	NONE	< 5.0	< 5.0	6.5	< 5.0	< 5.0

#### Heavy Metals / Metalloids

Magnesium (water soluble)	mg/kg	5	NONE	< 5.0	39	17	< 5.0	< 5.0
Magnesium (leachate equivalent)	mg/l	2.5	NONE	< 2.5	20	8.6	< 2.5	< 2.5

U/S = Unsuitable Sample I/S = Insufficient Sample

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 Project / Site name: Begbroke  
 Your Order No: PO20272

Lab Sample Number	2439999	2440000	2440001	2440002	2440003			
Sample Reference	TP211	TP213	TP219	TP220	TP221			
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied			
Depth (m)	1.20	1.30	2.30	2.50	0.70			
Date Sampled	09/09/2022	08/09/2022	06/09/2022	05/09/2022	08/09/2022			
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied			
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	8.8	7.8	14	14	4.3
Total mass of sample received	kg	0.001	NONE	0.2	0.2	0.2	0.2	0.2

#### General Inorganics

pH - Automated	pH Units	N/A	MCERTS	7.8	7.9	8.2	7.6	7.2
Total Sulphate as SO <sub>4</sub>	mg/kg	50	MCERTS	100	120	4000	500	240
Total Sulphate as SO <sub>4</sub>	%	0.005	MCERTS	0.01	0.012	0.399	0.05	0.024
Water Soluble SO <sub>4</sub> 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.0074	0.0086	0.009	0.0088	0.011
Water Soluble SO <sub>4</sub> 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	7.4	8.6	9	8.8	10.6
Water Soluble Chloride (2:1)	mg/kg	1	MCERTS	2.4	2.4	25	7.1	1.3
Water Soluble Chloride (2:1) (leachate equivalent)	mg/l	0.5	MCERTS	1.2	1.2	12	3.5	0.7
Total Sulphur	mg/kg	50	MCERTS	57	120	1500	210	130
Total Sulphur	%	0.005	MCERTS	0.006	0.012	0.154	0.021	0.013
Ammoniacal Nitrogen as NH <sub>4</sub>	mg/kg	0.5	MCERTS	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Ammonium as NH <sub>4</sub> (10:1 leachate equivalent)	mg/l	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Organic Matter (automated)	%	0.1	MCERTS	-	-	0.3	-	-
Water Soluble Nitrate (2:1) as NO <sub>3</sub>	mg/kg	2	NONE	8.3	33	27	12	13
Water Soluble Nitrate (2:1) as NO <sub>3</sub> (leachate equivalent)	mg/l	5	NONE	< 5.0	17	14	6.1	6.7

#### Heavy Metals / Metalloids

Magnesium (water soluble)	mg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Magnesium (leachate equivalent)	mg/l	2.5	NONE	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5

U/S = Unsuitable Sample I/S = Insufficient Sample

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 Project / Site name: Begbroke  
 Your Order No: PO20272

Lab Sample Number	2440004	2440005	2440006	2440007	2440008			
Sample Reference	TP223	TP226	TP229	TP230	TP232			
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied			
Depth (m)	1.20	0.80	1.20	1.00	0.50			
Date Sampled	08/09/2022	05/09/2022	05/09/2022	07/09/2022	07/09/2022			
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied			
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	17	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	5.5	8.2	3.3	5.4	16
Total mass of sample received	kg	0.001	NONE	0.2	0.2	0.2	0.2	0.2

#### General Inorganics

pH - Automated	pH Units	N/A	MCERTS	7.9	7.7	7.3	7.6	-
Total Sulphate as SO <sub>4</sub>	mg/kg	50	MCERTS	390	150	170	490	-
Total Sulphate as SO <sub>4</sub>	%	0.005	MCERTS	0.039	0.015	0.017	0.049	-
Water Soluble SO <sub>4</sub> 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.04	0.026	0.0022	0.091	-
Water Soluble SO <sub>4</sub> 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	40	26.4	2.2	90.7	-
Water Soluble Chloride (2:1)	mg/kg	1	MCERTS	2.9	1.4	1.4	4.3	-
Water Soluble Chloride (2:1) (leachate equivalent)	mg/l	0.5	MCERTS	1.4	0.7	0.7	2.1	-
Total Sulphur	mg/kg	50	MCERTS	190	110	63	210	-
Total Sulphur	%	0.005	MCERTS	0.019	0.011	0.006	0.021	-
Ammoniacal Nitrogen as NH <sub>4</sub>	mg/kg	0.5	MCERTS	< 0.5	< 0.5	< 0.5	< 0.5	-
Ammonium as NH <sub>4</sub> (10:1 leachate equivalent)	mg/l	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	-
Organic Matter (automated)	%	0.1	MCERTS	-	-	-	-	1.6
Water Soluble Nitrate (2:1) as NO <sub>3</sub>	mg/kg	2	NONE	4	6.2	2.7	6.3	-
Water Soluble Nitrate (2:1) as NO <sub>3</sub> (leachate equivalent)	mg/l	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	-

#### Heavy Metals / Metalloids

Magnesium (water soluble)	mg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	-
Magnesium (leachate equivalent)	mg/l	2.5	NONE	< 2.5	< 2.5	< 2.5	< 2.5	-

U/S = Unsuitable Sample I/S = Insufficient Sample

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 Project / Site name: Begbroke  
 Your Order No: PO20272

Lab Sample Number	2440009		2440010		2440011		2440012		2440013	
Sample Reference	TP234		WS201		WS214		WS215		WS219	
Sample Number	None Supplied		None Supplied		None Supplied		None Supplied		None Supplied	
Depth (m)	0.70-0.90		1.70		0.90		1.60		2.00	
Date Sampled	07/09/2022		30/08/2022		23/08/2022		25/08/2022		24/08/2022	
Time Taken	None Supplied		None Supplied		None Supplied		None Supplied		None Supplied	
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status							
Stone Content	%	0.1	NONE	22	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	5.3	16	4.2	17	15		
Total mass of sample received	kg	0.001	NONE	0.2	0.2	0.2	0.2	0.2	0.2	0.2

#### General Inorganics

pH - Automated	pH Units	N/A	MCERTS	7.9	6.9	7.2	8.4	7.6
Total Sulphate as SO <sub>4</sub>	mg/kg	50	MCERTS	680	100000	990	270	890
Total Sulphate as SO <sub>4</sub>	%	0.005	MCERTS	0.068	10.1	0.099	0.027	0.089
Water Soluble SO <sub>4</sub> 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.2	3	0.31	0.021	0.22
Water Soluble SO <sub>4</sub> 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	201	2950	307	20.8	216
Water Soluble Chloride (2:1)	mg/kg	1	MCERTS	5.5	91	3.9	6.2	110
Water Soluble Chloride (2:1) (leachate equivalent)	mg/l	0.5	MCERTS	2.8	45	1.9	3.1	56
Total Sulphur	mg/kg	50	MCERTS	420	44000	500	240	1400
Total Sulphur	%	0.005	MCERTS	0.042	4.39	0.05	0.024	0.138
Ammoniacal Nitrogen as NH <sub>4</sub>	mg/kg	0.5	MCERTS	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Ammonium as NH <sub>4</sub> (10:1 leachate equivalent)	mg/l	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Organic Matter (automated)	%	0.1	MCERTS	-	-	-	-	-
Water Soluble Nitrate (2:1) as NO <sub>3</sub>	mg/kg	2	NONE	< 2.0	< 2.0	20	8.7	2
Water Soluble Nitrate (2:1) as NO <sub>3</sub> (leachate equivalent)	mg/l	5	NONE	< 5.0	< 5.0	10	< 5.0	< 5.0

#### Heavy Metals / Metalloids

Magnesium (water soluble)	mg/kg	5	NONE	< 5.0	13	10	< 5.0	8.9
Magnesium (leachate equivalent)	mg/l	2.5	NONE	< 2.5	6.4	5	< 2.5	4.4

U/S = Unsuitable Sample I/S = Insufficient Sample



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 Project / Site name: Begbroke  
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Lab Sample Number	2440014	2440015	2440016	2440017	2440018			
Sample Reference	WS219	WS225	WS227	WS241	WS242			
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied			
Depth (m)	3.20-4.00	1.20-2.00	1.60	0.60	1.60			
Date Sampled	24/08/2022	31/08/2022	23/08/2022	01/09/2022	05/09/2022			
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied			
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	13	5.7	5.2	20	14
Total mass of sample received	kg	0.001	NONE	0.2	0.2	0.2	0.2	0.2

#### General Inorganics

pH - Automated	pH Units	N/A	MCERTS	7.3	8.2	7.5	-	8
Total Sulphate as SO4	mg/kg	50	MCERTS	3000	360	470	-	160
Total Sulphate as SO4	%	0.005	MCERTS	0.303	0.036	0.047	-	0.016
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	1.6	0.017	0.0085	-	0.029
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	1610	16.7	8.5	-	29.4
Water Soluble Chloride (2:1)	mg/kg	1	MCERTS	32	2.1	1.6	-	15
Water Soluble Chloride (2:1) (leachate equivalent)	mg/l	0.5	MCERTS	16	1	0.8	-	7.3
Total Sulphur	mg/kg	50	MCERTS	32000	280	230	-	190
Total Sulphur	%	0.005	MCERTS	3.19	0.028	0.023	-	0.019
Ammoniacal Nitrogen as NH4	mg/kg	0.5	MCERTS	0.8	< 0.5	< 0.5	-	< 0.5
Ammonium as NH4 (10:1 leachate equivalent)	mg/l	0.05	MCERTS	0.08	< 0.05	< 0.05	-	< 0.05
Organic Matter (automated)	%	0.1	MCERTS	-	-	-	2.2	-
Water Soluble Nitrate (2:1) as NO3	mg/kg	2	NONE	8	< 2.0	< 2.0	-	3.8
Water Soluble Nitrate (2:1) as NO3 (leachate equivalent)	mg/l	5	NONE	< 5.0	< 5.0	< 5.0	-	< 5.0

#### Heavy Metals / Metalloids

Magnesium (water soluble)	mg/kg	5	NONE	60	< 5.0	< 5.0	-	< 5.0
Magnesium (leachate equivalent)	mg/l	2.5	NONE	30	< 2.5	< 2.5	-	< 2.5

U/S = Unsuitable Sample I/S = Insufficient Sample

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 Your Order No: PO20272

<b>Lab Sample Number</b>				2440019
<b>Sample Reference</b>				WS245
<b>Sample Number</b>				None Supplied
<b>Depth (m)</b>				1.10
<b>Date Sampled</b>				02/09/2022
<b>Time Taken</b>				None Supplied
<b>Analytical Parameter (Soil Analysis)</b>	<b>Units</b>	<b>Limit of detection</b>	<b>Accreditation Status</b>	
Stone Content	%	0.1	NONE	< 0.1
Moisture Content	%	0.01	NONE	21
Total mass of sample received	kg	0.001	NONE	0.2

#### General Inorganics

pH - Automated	pH Units	N/A	MCERTS	7.6
Total Sulphate as SO <sub>4</sub>	mg/kg	50	MCERTS	690
Total Sulphate as SO <sub>4</sub>	%	0.005	MCERTS	0.069
Water Soluble SO <sub>4</sub> 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.32
Water Soluble SO <sub>4</sub> 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	322
Water Soluble Chloride (2:1)	mg/kg	1	MCERTS	15
Water Soluble Chloride (2:1) (leachate equivalent)	mg/l	0.5	MCERTS	7.4
Total Sulphur	mg/kg	50	MCERTS	840
Total Sulphur	%	0.005	MCERTS	0.084
Ammoniacal Nitrogen as NH <sub>4</sub>	mg/kg	0.5	MCERTS	< 0.5
Ammonium as NH <sub>4</sub> (10:1 leachate equivalent)	mg/l	0.05	MCERTS	< 0.05
Organic Matter (automated)	%	0.1	MCERTS	1.2
Water Soluble Nitrate (2:1) as NO <sub>3</sub>	mg/kg	2	NONE	< 2.0
Water Soluble Nitrate (2:1) as NO <sub>3</sub> (leachate equivalent)	mg/l	5	NONE	< 5.0

#### Heavy Metals / Metalloids

Magnesium (water soluble)	mg/kg	5	NONE	7.8
Magnesium (leachate equivalent)	mg/l	2.5	NONE	3.9

U/S = Unsuitable Sample I/S = Insufficient Sample



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**Project / Site name: Begbroke**

\* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
2439989	TP201	None Supplied	0.7	Brown sandy clay with gravel.
2439990	TP203	None Supplied	1.3	Brown clay and sand.
2439991	TP208	None Supplied	0.60-0.70	Brown loam and clay with gravel and vegetation.
2439992	TP218	None Supplied	0.7	Brown clay and loam with vegetation.
2439993	TP221	None Supplied	2.20-2.30	Brown gravelly sand.
2439994	BH202	None Supplied	2.00-2.45	Brown clay and sand.
2439995	BH202	None Supplied	6.30-6.60	Brown clay and sand.
2439996	TP201	None Supplied	1.8	Brown clay and sand with gravel.
2439997	TP207	None Supplied	0.7	Brown sand with stones.
2439998	TP209	None Supplied	3.4	Brown clay and sand with gravel.
2439999	TP211	None Supplied	1.2	Brown sandy clay with gravel.
2440000	TP213	None Supplied	1.3	Brown clay and loam with gravel and vegetation.
2440001	TP219	None Supplied	2.3	Brown sandy clay.
2440002	TP220	None Supplied	2.5	Brown clay and sand.
2440003	TP221	None Supplied	0.7	Brown clay and loam with vegetation.
2440004	TP223	None Supplied	1.2	Brown clay and sand with gravel and stones.
2440005	TP226	None Supplied	0.8	Brown clay and sand.
2440006	TP229	None Supplied	1.2	Brown sand with gravel.
2440007	TP230	None Supplied	1	Brown sand with gravel.
2440008	TP232	None Supplied	0.5	Brown clay and loam with gravel and vegetation.
2440009	TP234	None Supplied	0.70-0.90	Brown sand with gravel and stones.
2440010	WS201	None Supplied	1.7	Brown clay and sand with gravel.
2440011	WS214	None Supplied	0.9	Brown sandy clay with gravel.
2440012	WS215	None Supplied	1.6	Brown sand with gravel.
2440013	WS219	None Supplied	2	Brown clay and sand.
2440014	WS219	None Supplied	3.20-4.00	Brown clay and sand.
2440015	WS225	None Supplied	1.20-2.00	Brown sand with gravel.
2440016	WS227	None Supplied	1.6	Brown sand with gravel.
2440017	WS241	None Supplied	0.6	Brown clay and sand with gravel.
2440018	WS242	None Supplied	1.6	Brown clay and sand with vegetation.
2440019	WS245	None Supplied	1.1	Brown clay and sand with vegetation.

Analytical Report Number : 22-86699

Project / Site name: Begbroke

**Water matrix abbreviations:**

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Sulphate, water soluble, in soil (16hr extraction)	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In house method.	L038-PL	D	MCERTS
Chloride, water soluble, in soil	Determination of Chloride colorimetrically by discrete analyser.	In house method.	L082-PL	D	MCERTS
Magnesium, water soluble, in soil	Determination of water soluble magnesium by extraction with water followed by ICP-OES.	In-house method based on TRL 447	L038-PL	D	NONE
Moisture Content	Moisture content, determined gravimetrically. (30 oC)	In house method.	L019-UK/PL	W	NONE
Nitrate, water soluble, in soil	Determination of nitrate by reaction with sodium salicylate and colorimetry.	In-house method based on Examination of Water and Wastewater & Polish Standard Method PN-82/C-04579.08, 2:1 extraction.	L078-PL	D	NONE
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement.	In house method.	L099-PL	D	MCERTS
Total sulphate (as SO4 in soil)	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES.	In house method.	L038-PL	D	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Total Sulphur in soil	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES.	In house method.	L038-PL	D	MCERTS
Ammonium as NH4 in soil	Determination of Ammonium/Ammonia/ Ammoniacal Nitrogen by the colorimetric salicylate/nitroprusside method, 10:1 water extraction.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L082-PL	W	MCERTS
Organic matter (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	In house method.	L009-PL	D	MCERTS
Total Sulphate in soil as %	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES.	In house method.	L038-PL	D	MCERTS
Total Sulphur in soil as %	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES.	In house method.	L038-PL	D	MCERTS
Water Soluble Nitrate (leachate equivalent)	Determination of nitrate by reaction with sodium salicylate and colorimetry.	In-house method based on Examination of Water and Wastewater & Polish Standard Method PN-82/C-04579.08, 2:1 extraction.	L078-PL	D	NONE
Sulphate, water soluble, in soil	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In house method.	L038-PL	D	MCERTS

**For method numbers ending in 'UK or A' analysis have been carried out in our laboratory in the United Kingdom (WATFORD).**

**For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).**

**For method numbers ending in 'PL or B' analysis have been carried out in our laboratory in Poland.**

**Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC**



**Analytical Report Number : 22-86699**  
**Project / Site name: Begbroke**

**Water matrix abbreviations:**

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
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Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.

## Sample Deviation Report



**Analytical Report Number : 22-86699**

**Project / Site name: Begbroke**

This deviation report indicates the sample and test deviations that apply to the samples submitted for analysis. Please note that the associated result(s) may be unreliable and should be interpreted with care.

Sample ID	Other ID	Sample Type	Lab Sample Number	Sample Deviation	Test Name	Test Ref	Test Deviation
WS201	None Supplied	S	2440010	c	Ammoniacal Nitrogen as N in soil	L082-PL	c
WS201	None Supplied	S	2440010	c	Ammonium as NH4 in soil	L082-PL	c
WS201	None Supplied	S	2440010	c	Chloride, water soluble, in soil	L082-PL	c
WS201	None Supplied	S	2440010	c	Nitrate, water soluble, in soil	L078-PL	c
WS201	None Supplied	S	2440010	c	Water Soluble Nitrate (2:1) as N in soil	L078-PL	c
WS201	None Supplied	S	2440010	c	Water Soluble Nitrate (leachate equivalent)	L078-PL	c
WS201	None Supplied	S	2440010	c	pH in soil (automated)	L099-PL	c
WS214	None Supplied	S	2440011	c	Ammoniacal Nitrogen as N in soil	L082-PL	c
WS214	None Supplied	S	2440011	c	Ammonium as NH4 in soil	L082-PL	c
WS214	None Supplied	S	2440011	c	Chloride, water soluble, in soil	L082-PL	c
WS214	None Supplied	S	2440011	c	Nitrate, water soluble, in soil	L078-PL	c
WS214	None Supplied	S	2440011	c	Water Soluble Nitrate (2:1) as N in soil	L078-PL	c
WS214	None Supplied	S	2440011	c	Water Soluble Nitrate (leachate equivalent)	L078-PL	c
WS214	None Supplied	S	2440011	c	pH in soil (automated)	L099-PL	c
WS215	None Supplied	S	2440012	c	Ammoniacal Nitrogen as N in soil	L082-PL	c
WS215	None Supplied	S	2440012	c	Ammonium as NH4 in soil	L082-PL	c
WS215	None Supplied	S	2440012	c	Chloride, water soluble, in soil	L082-PL	c
WS215	None Supplied	S	2440012	c	Nitrate, water soluble, in soil	L078-PL	c
WS215	None Supplied	S	2440012	c	Water Soluble Nitrate (2:1) as N in soil	L078-PL	c
WS215	None Supplied	S	2440012	c	Water Soluble Nitrate (leachate equivalent)	L078-PL	c
WS215	None Supplied	S	2440012	c	pH in soil (automated)	L099-PL	c
WS219	None Supplied	S	2440013	c	Ammoniacal Nitrogen as N in soil	L082-PL	c
WS219	None Supplied	S	2440013	c	Ammonium as NH4 in soil	L082-PL	c
WS219	None Supplied	S	2440013	c	Chloride, water soluble, in soil	L082-PL	c
WS219	None Supplied	S	2440013	c	Nitrate, water soluble, in soil	L078-PL	c
WS219	None Supplied	S	2440013	c	Water Soluble Nitrate (2:1) as N in soil	L078-PL	c
WS219	None Supplied	S	2440013	c	Water Soluble Nitrate (leachate equivalent)	L078-PL	c
WS219	None Supplied	S	2440013	c	pH in soil (automated)	L099-PL	c
WS219	None Supplied	S	2440014	c	Ammoniacal Nitrogen as N in soil	L082-PL	c
WS219	None Supplied	S	2440014	c	Ammonium as NH4 in soil	L082-PL	c
WS219	None Supplied	S	2440014	c	Chloride, water soluble, in soil	L082-PL	c
WS219	None Supplied	S	2440014	c	Nitrate, water soluble, in soil	L078-PL	c
WS219	None Supplied	S	2440014	c	Water Soluble Nitrate (2:1) as N in soil	L078-PL	c
WS219	None Supplied	S	2440014	c	Water Soluble Nitrate (leachate equivalent)	L078-PL	c
WS219	None Supplied	S	2440014	c	pH in soil (automated)	L099-PL	c
WS227	None Supplied	S	2440016	c	Ammoniacal Nitrogen as N in soil	L082-PL	c
WS227	None Supplied	S	2440016	c	Ammonium as NH4 in soil	L082-PL	c
WS227	None Supplied	S	2440016	c	Chloride, water soluble, in soil	L082-PL	c
WS227	None Supplied	S	2440016	c	Nitrate, water soluble, in soil	L078-PL	c
WS227	None Supplied	S	2440016	c	Water Soluble Nitrate (2:1) as N in soil	L078-PL	c
WS227	None Supplied	S	2440016	c	Water Soluble Nitrate (leachate equivalent)	L078-PL	c
WS227	None Supplied	S	2440016	c	pH in soil (automated)	L099-PL	c

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## **Analytical Report Number : 23-17615**

<b>Project / Site name:</b>	Begbroke	<b>Samples received on:</b>	10/02/2023
<b>Your job number:</b>	19114	<b>Samples instructed on/ Analysis started on:</b>	10/02/2023
<b>Your order number:</b>	PO23999	<b>Analysis completed by:</b>	23/02/2023
<b>Report Issue Number:</b>	1	<b>Report issued on:</b>	24/02/2023
<b>Samples Analysed:</b>	150 soil samples		

**Signed:**

Joanna Wawrzeczko  
Reporting Specialist  
**For & on behalf of i2 Analytical Ltd.**

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting

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Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement. Application of uncertainty of measurement would provide a range within which the true result lies. An estimate of measurement uncertainty can be provided on request.

Analytical Report Number: 23-17615  
 Project / Site name: Begbroke  
 Your Order No: PO23999

Lab Sample Number	2585501	2585502	2585503	2585504	2585505			
Sample Reference	HP301	HP301	HP301	HP302	HP302			
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied			
Depth (m)	0.00-0.10	0.10-0.20	0.20-0.30	0.00-0.10	0.10-0.20			
Date Sampled	06/02/2023	06/02/2023	06/02/2023	06/02/2023	06/02/2023			
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied			
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	21	21	18	21	21
Total mass of sample received	kg	0.001	NONE	0.5	0.5	0.5	0.5	0.5

**General Inorganics**

Organic Matter (automated)	%	0.1	MCERTS	5.2	4.7	3.1	4.8	5
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U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected



Analytical Report Number: 23-17615  
Project / Site name: Begbroke  
Your Order No: PO23999

Lab Sample Number				2585506	2585507	2585508	2585509	2585510
Sample Reference				HP302	HP303	HP303	HP303	HP304
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.20-0.30	0.00-0.10	0.10-0.20	0.20-0.30	0.00-0.10
Date Sampled				06/02/2023	06/02/2023	06/02/2023	06/02/2023	06/02/2023
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
				Stone Content	%	0.1	NONE	< 0.1
Moisture Content	%	0.01	NONE	21	21	21	19	22
Total mass of sample received	kg	0.001	NONE	0.5	0.5	0.5	0.5	0.5

#### General Inorganics

Organic Matter (automated)	%	0.1	MCERTS	3.5	5	4.7	3.9	5.5

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 23-17615  
 Project / Site name: Begbroke  
 Your Order No: PO23999

Lab Sample Number	2585511	2585512	2585513	2585514	2585515			
Sample Reference	HP304	HP304	HP305	HP305	HP305			
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied			
Depth (m)	0.10-0.20	0.20-0.30	0.00-0.10	0.10-0.20	0.20-0.30			
Date Sampled	06/02/2023	06/02/2023	06/02/2023	06/02/2023	06/02/2023			
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied			
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	20	18	24	22	15
Total mass of sample received	kg	0.001	NONE	0.5	0.5	0.5	0.5	0.5

**General Inorganics**

Organic Matter (automated)	%	0.1	MCERTS	4.8	3.8	5.8	5.1	1.8
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U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 23-17615  
 Project / Site name: Begbroke  
 Your Order No: PO23999

Lab Sample Number				2585516	2585517	2585518	2585519	2585520
Sample Reference				HP306	HP306	HP306	HP307	HP307
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.00-0.10	0.10-0.20	0.20-0.30	0.00-0.10	0.10-0.20
Date Sampled				06/02/2023	06/02/2023	06/02/2023	06/02/2023	06/02/2023
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
				Stone Content	%	0.1	NONE	< 0.1
Moisture Content	%	0.01	NONE	30	26	24	30	30
Total mass of sample received	kg	0.001	NONE	0.5	0.5	0.5	0.5	0.5

**General Inorganics**

Organic Matter (automated)	%	0.1	MCERTS	6.8	4.6	4.4	8.4	6.8

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 23-17615  
 Project / Site name: Begbroke  
 Your Order No: PO23999

Lab Sample Number				2585521	2585522	2585523	2585524	2585525
Sample Reference				HP307	HP308	HP308	HP308	HP309
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.20-0.30	0.00-0.10	0.10-0.20	0.20-0.30	0.00-0.10
Date Sampled				06/02/2023	06/02/2023	06/02/2023	06/02/2023	06/02/2023
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
				Stone Content	%	0.1	NONE	< 0.1
Moisture Content	%	0.01	NONE	23	13	14	11	15
Total mass of sample received	kg	0.001	NONE	0.5	0.5	0.5	0.5	0.5

**General Inorganics**

Organic Matter (automated)	%	0.1	MCERTS					
				3.8	3.6	4.3	3.4	3.5

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 23-17615  
 Project / Site name: Begbroke  
 Your Order No: PO23999

Lab Sample Number	2585526	2585527	2585528	2585529	2585530			
Sample Reference	HP309	HP309	HP310	HP310	HP310			
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied			
Depth (m)	0.10-0.20	0.20-0.30	0.00-0.10	0.10-0.20	0.20-0.30			
Date Sampled	06/02/2023	06/02/2023	06/02/2023	06/02/2023	06/02/2023			
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied			
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	11	13	11	12	11
Total mass of sample received	kg	0.001	NONE	0.5	0.5	0.5	0.5	0.5

**General Inorganics**

Organic Matter (automated)	%	0.1	MCERTS	2.4	2.7	3	2.4	2.3
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U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 23-17615  
 Project / Site name: Begbroke  
 Your Order No: PO23999

Lab Sample Number				2585531	2585532	2585533	2585534	2585535
Sample Reference				HP311	HP311	HP311	HP312	HP312
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.00-0.10	0.10-0.20	0.20-0.30	0.00-0.10	0.10-0.20
Date Sampled				06/02/2023	06/02/2023	06/02/2023	06/02/2023	06/02/2023
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	14	14	10	11	11
Total mass of sample received	kg	0.001	NONE	0.5	0.5	0.5	0.5	0.5

**General Inorganics**

Organic Matter (automated)	%	0.1	MCERTS					
				3.3	2.6	2.2	2.8	2.4

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 23-17615  
 Project / Site name: Begbroke  
 Your Order No: PO23999

Lab Sample Number	2585536	2585537	2585538	2585539	2585540			
Sample Reference	HP312	HP313	HP313	HP313	HP314			
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied			
Depth (m)	0.20-0.30	0.00-0.10	0.10-0.20	0.20-0.30	0.00-0.10			
Date Sampled	06/02/2023	06/02/2023	06/02/2023	06/02/2023	06/02/2023			
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied			
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	10	11	12	12	29
Total mass of sample received	kg	0.001	NONE	0.5	0.5	0.5	0.5	0.5

**General Inorganics**

Organic Matter (automated)	%	0.1	MCERTS	1.7	2.2	2.8	1.3	5.4
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U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 23-17615  
 Project / Site name: Begbroke  
 Your Order No: PO23999

Lab Sample Number				2585541	2585542	2585543	2585544	2585545
Sample Reference				HP314	HP314	HP315	HP315	HP315
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.10-0.20	0.20-0.30	0.00-0.10	0.10-0.20	0.20-0.30
Date Sampled				06/02/2023	06/02/2023	06/02/2023	06/02/2023	06/02/2023
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
				Stone Content	%	0.1	NONE	< 0.1
Moisture Content	%	0.01	NONE	31	29	29	30	34
Total mass of sample received	kg	0.001	NONE	0.5	0.5	0.5	0.5	0.5

**General Inorganics**

Organic Matter (automated)	%	0.1	MCERTS	4.2	4.3	5.6	5.6	2.6
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U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected



Analytical Report Number: 23-17615  
 Project / Site name: Begbroke  
 Your Order No: PO23999

Lab Sample Number	2585546	2585547	2585548	2585549	2585550			
Sample Reference	HP316	HP316	HP316	HP317	HP317			
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied			
Depth (m)	0.00-0.10	0.10-0.20	0.20-0.30	0.00-0.10	0.10-0.20			
Date Sampled	06/02/2023	06/02/2023	06/02/2023	06/02/2023	06/02/2023			
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied			
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	27	28	28	14	14
Total mass of sample received	kg	0.001	NONE	0.5	0.5	0.5	0.5	0.5

**General Inorganics**

Organic Matter (automated)	%	0.1	MCERTS	5.7	5.5	3.9	4.1	2.9
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U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 23-17615  
 Project / Site name: Begbroke  
 Your Order No: PO23999

Lab Sample Number	2585551	2585552	2585553	2585554	2585555			
Sample Reference	HP317	HP318	HP318	HP318	HP319			
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied			
Depth (m)	0.20-0.30	0.00-0.10	0.10-0.20	0.20-0.30	0.00-0.10			
Date Sampled	06/02/2023	06/02/2023	06/02/2023	06/02/2023	06/02/2023			
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied			
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	14	12	12	11	10
Total mass of sample received	kg	0.001	NONE	0.5	0.5	0.5	0.5	0.5

**General Inorganics**

Organic Matter (automated)	%	0.1	MCERTS	2.7	2.8	3	2.4	3
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U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 23-17615  
 Project / Site name: Begbroke  
 Your Order No: PO23999

Lab Sample Number	2585556	2585557	2585558	2585559	2585560			
Sample Reference	HP319	HP319	HP320	HP320	HP320			
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied			
Depth (m)	0.10-0.20	0.20-0.30	0.00-0.10	0.10-0.20	0.20-0.30			
Date Sampled	06/02/2023	06/02/2023	06/02/2023	06/02/2023	06/02/2023			
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied			
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	8.8	10	12	12	11
Total mass of sample received	kg	0.001	NONE	0.5	0.5	0.5	0.5	0.5

**General Inorganics**

Organic Matter (automated)	%	0.1	MCERTS	3	1.6	2.8	3.1	1.6
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U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 23-17615  
 Project / Site name: Begbroke  
 Your Order No: PO23999

Lab Sample Number	2585561	2585562	2585563	2585564	2585565			
Sample Reference	HP321	HP321	HP321	HP322	HP322			
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied			
Depth (m)	0.00-0.10	0.10-0.20	0.20-0.30	0.00-0.10	0.10-0.20			
Date Sampled	06/02/2023	06/02/2023	06/02/2023	06/02/2023	06/02/2023			
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied			
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	11	11	11	13	13
Total mass of sample received	kg	0.001	NONE	0.5	0.5	0.5	0.5	0.5

**General Inorganics**

Organic Matter (automated)	%	0.1	MCERTS	3.2	2.6	2.5	2.6	2.9
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U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 23-17615  
Project / Site name: Begbroke  
Your Order No: PO23999

Lab Sample Number	2585566	2585567	2585568	2585569	2585570			
Sample Reference	HP322	HP323	HP323	HP323	HP324			
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied			
Depth (m)	0.20-0.30	0.00-0.10	0.10-0.20	0.20-0.30	0.00-0.10			
Date Sampled	06/02/2023	06/02/2023	06/02/2023	06/02/2023	06/02/2023			
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied			
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	13	15	3.3	12	13
Total mass of sample received	kg	0.001	NONE	0.5	0.5	0.5	0.5	0.5

**General Inorganics**

Organic Matter (automated)	%	0.1	MCERTS	2.6	4.4	5	3.1	4.3
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U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 23-17615  
 Project / Site name: Begbroke  
 Your Order No: PO23999

Lab Sample Number				2585571	2585572	2585573	2585574	2585575
Sample Reference				HP324	HP324	HP325	HP325	HP325
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.10-0.20	0.20-0.30	0.00-0.10	0.10-0.20	0.20-0.30
Date Sampled				06/02/2023	06/02/2023	06/02/2023	06/02/2023	06/02/2023
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
				Stone Content	%	0.1	NONE	< 0.1
Moisture Content	%	0.01	NONE	12	13	14	15	13
Total mass of sample received	kg	0.001	NONE	0.5	0.5	0.5	0.5	0.5

**General Inorganics**

Organic Matter (automated)	%	0.1	MCERTS	3.5	3.5	4.8	5	2.7

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 23-17615  
 Project / Site name: Begbroke  
 Your Order No: PO23999

Lab Sample Number	2585576	2585577	2585578	2585579	2585580			
Sample Reference	HP326	HP326	HP326	HP327	HP327			
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied			
Depth (m)	0.00-0.10	0.10-0.20	0.20-0.30	0.00-0.10	0.10-0.20			
Date Sampled	06/02/2023	06/02/2023	06/02/2023	06/02/2023	06/02/2023			
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied			
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	13	13	11	14	14
Total mass of sample received	kg	0.001	NONE	0.5	0.5	0.5	0.5	0.5

**General Inorganics**

Organic Matter (automated)	%	0.1	MCERTS	3.1	2.9	1.8	3.2	3.1
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U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 23-17615  
Project / Site name: Begbroke  
Your Order No: PO23999

Lab Sample Number	2585581	2585582	2585583	2585584	2585585			
Sample Reference	HP327	HP328	HP328	HP328	HP329			
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied			
Depth (m)	0.20-0.30	0.00-0.10	0.10-0.20	0.20-0.30	0.00-0.10			
Date Sampled	06/02/2023	06/02/2023	06/02/2023	06/02/2023	06/02/2023			
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied			
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	12	14	14	10	12
Total mass of sample received	kg	0.001	NONE	0.5	0.5	0.5	0.5	0.5

#### General Inorganics

Organic Matter (automated)	%	0.1	MCERTS	1.9	4	4.2	1.9	3.2
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U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected



Analytical Report Number: 23-17615  
Project / Site name: Begbroke  
Your Order No: PO23999

Lab Sample Number	2585586	2585587	2585588	2585589	2585590			
Sample Reference	HP329	HP329	HP330	HP330	HP330			
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied			
Depth (m)	0.10-0.20	0.20-0.30	0.00-0.10	0.10-0.20	0.20-0.30			
Date Sampled	06/02/2023	06/02/2023	06/02/2023	06/02/2023	06/02/2023			
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied			
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	42	< 0.1
Moisture Content	%	0.01	NONE	12	11	14	9.6	9
Total mass of sample received	kg	0.001	NONE	0.5	0.5	0.5	0.5	0.5

**General Inorganics**

Organic Matter (automated)	%	0.1	MCERTS	3.2	2.5	4.3	2.7	0.9
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U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 23-17615  
 Project / Site name: Begbroke  
 Your Order No: PO23999

Lab Sample Number				2585591	2585592	2585593	2585594	2585595
Sample Reference				HP331	HP331	HP331	HP332	HP332
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.00-0.10	0.10-0.20	0.20-0.30	0.00-0.10	0.10-0.20
Date Sampled				06/02/2023	06/02/2023	06/02/2023	06/02/2023	06/02/2023
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
				Stone Content	%	0.1	NONE	< 0.1
Moisture Content	%	0.01	NONE	13	12	11	10	13
Total mass of sample received	kg	0.001	NONE	0.5	0.5	0.5	0.5	0.5

**General Inorganics**

Organic Matter (automated)	%	0.1	MCERTS	2.3	2.3	1.9	2.2	2.6

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 23-17615  
Project / Site name: Begbroke  
Your Order No: PO23999

Lab Sample Number	2585596	2585597	2585598	2585599	2585600			
Sample Reference	HP332	HP333	HP333	HP333	HP334			
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied			
Depth (m)	0.20-0.30	0.00-0.10	0.10-0.20	0.20-0.30	0.00-0.10			
Date Sampled	06/02/2023	06/02/2023	06/02/2023	06/02/2023	06/02/2023			
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied			
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	12	13	11	9.6	9.9
Total mass of sample received	kg	0.001	NONE	0.5	0.5	0.5	0.5	0.5

#### General Inorganics

Organic Matter (automated)	%	0.1	MCERTS	1.6	3.7	3	2.1	3.2
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U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 23-17615  
Project / Site name: Begbroke  
Your Order No: PO23999

Lab Sample Number	2585601	2585602	2585603	2585604	2585605			
Sample Reference	HP334	HP334	HP335	HP335	HP335			
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied			
Depth (m)	0.10-0.20	0.20-0.30	0.00-0.10	0.10-0.20	0.20-0.30			
Date Sampled	06/02/2023	06/02/2023	06/02/2023	06/02/2023	06/02/2023			
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied			
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	13	8.3	11	12	11
Total mass of sample received	kg	0.001	NONE	0.5	0.5	0.5	0.5	0.5

#### General Inorganics

Organic Matter (automated)	%	0.1	MCERTS	3.7	2.1	3	3.1	2.3
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U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 23-17615  
Project / Site name: Begbroke  
Your Order No: PO23999

Lab Sample Number	2585606	2585607	2585608	2585609	2585610			
Sample Reference	HP336	HP336	HP336	HP337	HP337			
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied			
Depth (m)	0.00-0.10	0.10-0.20	0.20-0.30	0.00-0.10	0.10-0.20			
Date Sampled	06/02/2023	06/02/2023	06/02/2023	06/02/2023	06/02/2023			
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied			
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	12	11	12	13	12
Total mass of sample received	kg	0.001	NONE	0.5	0.5	0.5	0.5	0.5

#### General Inorganics

Organic Matter (automated)	%	0.1	MCERTS	3.1	2.8	1.2	3.7	2.8
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U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 23-17615  
Project / Site name: Begbroke  
Your Order No: PO23999

Lab Sample Number				2585611	2585612	2585613	2585614	2585615
Sample Reference				HP337	HP338	HP338	HP338	HP339
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.20-0.30	0.00-0.10	0.10-0.20	0.20-0.30	0.00-0.10
Date Sampled				06/02/2023	06/02/2023	06/02/2023	06/02/2023	06/02/2023
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	11	33	29	24	21
Total mass of sample received	kg	0.001	NONE	0.5	0.5	0.5	0.5	0.5

#### General Inorganics

Organic Matter (automated)	%	0.1	MCERTS	2.4	7.2	5.8	4	4.8
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U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 23-17615  
 Project / Site name: Begbroke  
 Your Order No: PO23999

Lab Sample Number	2585616	2585617	2585618	2585619	2585620			
Sample Reference	HP339	HP339	HP340	HP340	HP340			
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied			
Depth (m)	0.10-0.20	0.20-0.30	0.00-0.10	0.10-0.20	0.20-0.30			
Date Sampled	06/02/2023	06/02/2023	06/02/2023	06/02/2023	06/02/2023			
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied			
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	17	16	14	14	14
Total mass of sample received	kg	0.001	NONE	0.5	0.5	0.5	0.5	0.5

**General Inorganics**

Organic Matter (automated)	%	0.1	MCERTS	3.1	2.7	3.1	2.9	1.9
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U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 23-17615  
Project / Site name: Begbroke  
Your Order No: PO23999

Lab Sample Number	2585621	2585622	2585623	2585624	2585625			
Sample Reference	HP341	HP341	HP341	HP342	HP342			
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied			
Depth (m)	0.00-0.10	0.10-0.20	0.20-0.30	0.00-0.10	0.10-0.20			
Date Sampled	06/02/2023	06/02/2023	06/02/2023	06/02/2023	06/02/2023			
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied			
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	13	13	11	17	17
Total mass of sample received	kg	0.001	NONE	0.5	0.5	0.5	0.5	0.5

#### General Inorganics

Organic Matter (automated)	%	0.1	MCERTS	2.6	2.4	1.2	3.2	3.4
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U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected



Analytical Report Number: 23-17615  
Project / Site name: Begbroke  
Your Order No: PO23999

Lab Sample Number	2585626	2585627	2585628	2585629	2585630			
Sample Reference	HP342	HP343	HP343	HP343	HP344			
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied			
Depth (m)	0.20-0.30	0.00-0.10	0.10-0.20	0.20-0.30	0.00-0.10			
Date Sampled	06/02/2023	06/02/2023	06/02/2023	06/02/2023	06/02/2023			
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied			
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	13	15	15	14	12
Total mass of sample received	kg	0.001	NONE	0.5	0.5	0.5	0.5	0.5

#### General Inorganics

Organic Matter (automated)	%	0.1	MCERTS	1.9	2.8	2.6	1.7	4.2
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U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 23-17615  
 Project / Site name: Begbroke  
 Your Order No: PO23999

Lab Sample Number				2585631	2585632	2585633	2585634	2585635
Sample Reference				HP344	HP344	HP345	HP345	HP345
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.10-0.20	0.20-0.30	0.00-0.10	0.10-0.20	0.20-0.30
Date Sampled				06/02/2023	06/02/2023	06/02/2023	06/02/2023	06/02/2023
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
				Stone Content	%	0.1	NONE	< 0.1
Moisture Content	%	0.01	NONE	13	11	10	9	11
Total mass of sample received	kg	0.001	NONE	0.5	0.5	0.5	0.5	0.5

**General Inorganics**

Organic Matter (automated)	%	0.1	MCERTS					
				4.5	3	2.9	1.3	3.1

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 23-17615  
 Project / Site name: Begbroke  
 Your Order No: PO23999

Lab Sample Number	2585636	2585637	2585638	2585639	2585640			
Sample Reference	HP346	HP346	HP346	HP347	HP347			
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied			
Depth (m)	0.00-0.10	0.10-0.20	0.20-0.30	0.00-0.10	0.10-0.20			
Date Sampled	06/02/2023	06/02/2023	06/02/2023	06/02/2023	06/02/2023			
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied			
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	13	29	11	16	12
Total mass of sample received	kg	0.001	NONE	0.5	0.5	0.5	0.5	0.5

#### General Inorganics

Organic Matter (automated)	%	0.1	MCERTS	3	3	2.5	5.3	3.4
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U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 23-17615  
 Project / Site name: Begbroke  
 Your Order No: PO23999

Lab Sample Number	2585641	2585642	2585643	2585644	2585645			
Sample Reference	HP347	HP348	HP348	HP348	HP349			
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied			
Depth (m)	0.20-0.30	0.00-0.10	0.10-0.20	0.20-0.30	0.00-0.10			
Date Sampled	06/02/2023	06/02/2023	06/02/2023	06/02/2023	06/02/2023			
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied			
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	11	9.9	13	9.4	11
Total mass of sample received	kg	0.001	NONE	0.5	0.5	0.5	0.5	0.5

**General Inorganics**

Organic Matter (automated)	%	0.1	MCERTS	2.6	2.7	3.2	2.1	2.6
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U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 23-17615  
 Project / Site name: Begbroke  
 Your Order No: PO23999

Lab Sample Number	2585646	2585647	2585648	2585649	2585650			
Sample Reference	HP349	HP349	HP350	HP350	HP350			
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied			
Depth (m)	0.10-0.20	0.20-0.30	0.00-0.10	0.10-0.20	0.20-0.30			
Date Sampled	06/02/2023	06/02/2023	06/02/2023	06/02/2023	06/02/2023			
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied			
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	8.6	11	9.9	10	9.1
Total mass of sample received	kg	0.001	NONE	0.5	0.5	0.5	0.5	0.5

**General Inorganics**

Organic Matter (automated)	%	0.1	MCERTS	2	2.1	2	2	1.7
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U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

**Analytical Report Number : 23-17615**  
**Project / Site name: Begbroke**

\* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
2585501	HP301	None Supplied	0.00-0.10	Brown loam and sand with gravel and vegetation.
2585502	HP301	None Supplied	0.10-0.20	Brown clay and loam with gravel and vegetation.
2585503	HP301	None Supplied	0.20-0.30	Brown clay and sand with gravel and vegetation.
2585504	HP302	None Supplied	0.00-0.10	Brown clay and loam with gravel and vegetation.
2585505	HP302	None Supplied	0.10-0.20	Brown clay and loam with gravel and vegetation.
2585506	HP302	None Supplied	0.20-0.30	Brown clay and sand with gravel and vegetation.
2585507	HP303	None Supplied	0.00-0.10	Brown clay and loam with vegetation.
2585508	HP303	None Supplied	0.10-0.20	Brown clay and sand with vegetation and gravel
2585509	HP303	None Supplied	0.20-0.30	Brown clay and sand with vegetation and gravel
2585510	HP304	None Supplied	0.00-0.10	Brown clay and sand with vegetation and gravel
2585511	HP304	None Supplied	0.10-0.20	Brown clay and sand with vegetation and gravel
2585512	HP304	None Supplied	0.20-0.30	Brown clay and sand with vegetation.
2585513	HP305	None Supplied	0.00-0.10	Brown clay and sand with vegetation and gravel
2585514	HP305	None Supplied	0.10-0.20	Brown clay and loam with vegetation and gravel
2585515	HP305	None Supplied	0.20-0.30	Brown clay and sand with gravel and vegetation.
2585516	HP306	None Supplied	0.00-0.10	Brown loam and sand with gravel and vegetation.
2585517	HP306	None Supplied	0.10-0.20	Brown loam and sand with gravel and vegetation.
2585518	HP306	None Supplied	0.20-0.30	Brown clay and sand with gravel and vegetation.
2585519	HP307	None Supplied	0.00-0.10	Brown loam and sand with gravel and vegetation.
2585520	HP307	None Supplied	0.10-0.20	Brown loam and sand with gravel and vegetation.
2585521	HP307	None Supplied	0.20-0.30	Brown clay and sand with gravel and vegetation.
2585522	HP308	None Supplied	0.00-0.10	Brown loam and sand with gravel and vegetation.
2585523	HP308	None Supplied	0.10-0.20	Brown loam and sand with gravel and vegetation.
2585524	HP308	None Supplied	0.20-0.30	Brown loam and sand with gravel and vegetation.
2585525	HP309	None Supplied	0.00-0.10	Brown loam and sand with gravel and vegetation.
2585526	HP309	None Supplied	0.10-0.20	Brown loam and sand with gravel and vegetation.
2585527	HP309	None Supplied	0.20-0.30	Brown loam and sand with gravel and vegetation.
2585528	HP310	None Supplied	0.00-0.10	Brown loam and sand with gravel and vegetation.
2585529	HP310	None Supplied	0.10-0.20	Brown loam and sand with gravel and vegetation.
2585530	HP310	None Supplied	0.20-0.30	Brown clay and sand with gravel and vegetation.
2585531	HP311	None Supplied	0.00-0.10	Brown loam and sand with gravel and vegetation.
2585532	HP311	None Supplied	0.10-0.20	Brown loam and sand with gravel and vegetation.
2585533	HP311	None Supplied	0.20-0.30	Brown loam and sand with gravel and vegetation.
2585534	HP312	None Supplied	0.00-0.10	Brown loam and sand with gravel and vegetation.
2585535	HP312	None Supplied	0.10-0.20	Brown loam and sand with gravel and vegetation.
2585536	HP312	None Supplied	0.20-0.30	Brown loam and sand with gravel and vegetation.
2585537	HP313	None Supplied	0.00-0.10	Brown loam and sand with gravel and vegetation.
2585538	HP313	None Supplied	0.10-0.20	Brown loam and sand with gravel and vegetation.
2585539	HP313	None Supplied	0.20-0.30	Brown clay and sand with vegetation.
2585540	HP314	None Supplied	0.00-0.10	Brown clay and sand with vegetation.
2585541	HP314	None Supplied	0.10-0.20	Brown clay and sand with vegetation.
2585542	HP314	None Supplied	0.20-0.30	Brown clay and sand with vegetation.
2585543	HP315	None Supplied	0.00-0.10	Brown clay and sand with vegetation.
2585544	HP315	None Supplied	0.10-0.20	Brown clay and sand with vegetation.
2585545	HP315	None Supplied	0.20-0.30	Brown clay and sand.
2585546	HP316	None Supplied	0.00-0.10	Brown clay and sand with gravel and vegetation.
2585547	HP316	None Supplied	0.10-0.20	Brown clay and sand with vegetation.
2585548	HP316	None Supplied	0.20-0.30	Brown clay and sand.
2585549	HP317	None Supplied	0.00-0.10	Brown loam and sand with gravel and vegetation.
2585550	HP317	None Supplied	0.10-0.20	Brown loam and sand with gravel and vegetation.
2585551	HP317	None Supplied	0.20-0.30	Brown loam and sand with gravel and vegetation.
2585552	HP318	None Supplied	0.00-0.10	Brown loam and sand with gravel and vegetation.
2585553	HP318	None Supplied	0.10-0.20	Brown sandy clay with vegetation.
2585554	HP318	None Supplied	0.20-0.30	Brown sandy clay with vegetation.
2585555	HP319	None Supplied	0.00-0.10	Brown loam and sand with vegetation and gravel.
2585556	HP319	None Supplied	0.10-0.20	Brown loam and sand with vegetation and gravel.
2585557	HP319	None Supplied	0.20-0.30	Brown loam and sand with vegetation and gravel.
2585558	HP320	None Supplied	0.00-0.10	Brown loam and sand with vegetation.
2585559	HP320	None Supplied	0.10-0.20	Brown loam and sand with gravel and vegetation.

**Analytical Report Number : 23-17615**

**Project / Site name: Begbroke**

\* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
2585560	HP320	None Supplied	0.20-0.30	Brown sandy clay with gravel and vegetation.
2585561	HP321	None Supplied	0.00-0.10	Brown sandy clay with gravel and vegetation.
2585562	HP321	None Supplied	0.10-0.20	Brown sandy clay with gravel and vegetation.
2585563	HP321	None Supplied	0.20-0.30	Brown sandy clay with gravel and vegetation.
2585564	HP322	None Supplied	0.00-0.10	Brown loam and sand with gravel and vegetation.
2585565	HP322	None Supplied	0.10-0.20	Brown loam and sand with gravel and vegetation.
2585566	HP322	None Supplied	0.20-0.30	Brown loam and sand with gravel and vegetation.
2585567	HP323	None Supplied	0.00-0.10	Brown loam and sand with gravel and vegetation.
2585568	HP323	None Supplied	0.10-0.20	Brown loam and sand with gravel and vegetation.
2585569	HP323	None Supplied	0.20-0.30	Brown loam and sand with gravel and vegetation.
2585570	HP324	None Supplied	0.00-0.10	Brown loam and sand with gravel and vegetation.
2585571	HP324	None Supplied	0.10-0.20	Brown loam and sand with gravel and vegetation.
2585572	HP324	None Supplied	0.20-0.30	Brown loam and sand with gravel and vegetation.
2585573	HP325	None Supplied	0.00-0.10	Brown loam and sand with gravel and vegetation.
2585574	HP325	None Supplied	0.10-0.20	Brown loam and sand with gravel and vegetation.
2585575	HP325	None Supplied	0.20-0.30	Brown loam and sand with gravel and vegetation.
2585576	HP326	None Supplied	0.00-0.10	Brown clay and sand with gravel and vegetation.
2585577	HP326	None Supplied	0.10-0.20	Brown clay and sand with gravel and vegetation.
2585578	HP326	None Supplied	0.20-0.30	Light brown clay and sand with gravel.
2585579	HP327	None Supplied	0.00-0.10	Brown clay and sand with gravel and vegetation.
2585580	HP327	None Supplied	0.10-0.20	Brown clay and sand with gravel and vegetation.
2585581	HP327	None Supplied	0.20-0.30	Brown clay and sand with gravel and vegetation.
2585582	HP328	None Supplied	0.00-0.10	Brown loam and sand with gravel and vegetation.
2585583	HP328	None Supplied	0.10-0.20	Brown loam and sand with gravel and vegetation.
2585584	HP328	None Supplied	0.20-0.30	Brown loam and sand with gravel.
2585585	HP329	None Supplied	0.00-0.10	Brown sandy loam with gravel and vegetation.
2585586	HP329	None Supplied	0.10-0.20	Brown sandy loam with gravel and vegetation.
2585587	HP329	None Supplied	0.20-0.30	Brown sandy loam with gravel and vegetation.
2585588	HP330	None Supplied	0.00-0.10	Brown loam and sand with gravel and vegetation.
2585589	HP330	None Supplied	0.10-0.20	Brown loam and sand with vegetation and stones.
2585590	HP330	None Supplied	0.20-0.30	Brown sandy clay with gravel and vegetation.
2585591	HP331	None Supplied	0.00-0.10	Brown loam and sand with gravel and vegetation.
2585592	HP331	None Supplied	0.10-0.20	Brown loam and sand with gravel.
2585593	HP331	None Supplied	0.20-0.30	Brown loam and sand with gravel.
2585594	HP332	None Supplied	0.00-0.10	Brown sandy clay with gravel and stones.
2585595	HP332	None Supplied	0.10-0.20	Brown sandy clay with gravel and vegetation.
2585596	HP332	None Supplied	0.20-0.30	Brown sandy clay with gravel and vegetation.
2585597	HP333	None Supplied	0.00-0.10	Brown loam and sand with gravel and vegetation.
2585598	HP333	None Supplied	0.10-0.20	Brown loam and sand with gravel and vegetation.
2585599	HP333	None Supplied	0.20-0.30	Brown loam and sand with gravel and vegetation.
2585600	HP334	None Supplied	0.00-0.10	Brown loam and sand with gravel and vegetation.
2585601	HP334	None Supplied	0.10-0.20	Brown loam and sand with gravel and vegetation.
2585602	HP334	None Supplied	0.20-0.30	Brown loam and sand with gravel and vegetation.
2585603	HP335	None Supplied	0.00-0.10	Brown loam and sand with gravel and vegetation.
2585604	HP335	None Supplied	0.10-0.20	Brown loam and sand with gravel and vegetation.
2585605	HP335	None Supplied	0.20-0.30	Brown loam and sand with gravel and vegetation.
2585606	HP336	None Supplied	0.00-0.10	Brown loam and sand with gravel and vegetation.
2585607	HP336	None Supplied	0.10-0.20	Brown loam and sand with gravel and vegetation.
2585608	HP336	None Supplied	0.20-0.30	Brown clay and sand with gravel and vegetation.
2585609	HP337	None Supplied	0.00-0.10	Brown loam and sand with gravel and vegetation.
2585610	HP337	None Supplied	0.10-0.20	Brown loam and sand with gravel and vegetation.
2585611	HP337	None Supplied	0.20-0.30	Brown loam and sand with gravel and vegetation.
2585612	HP338	None Supplied	0.00-0.10	Brown loam with gravel and vegetation.
2585613	HP338	None Supplied	0.10-0.20	Brown loam with gravel and vegetation.
2585614	HP338	None Supplied	0.20-0.30	Brown clay and sand with vegetation.
2585615	HP339	None Supplied	0.00-0.10	Brown clay and loam with vegetation.
2585616	HP339	None Supplied	0.10-0.20	Brown clay and loam with vegetation.
2585617	HP339	None Supplied	0.20-0.30	Brown clay and loam with vegetation.
2585618	HP340	None Supplied	0.00-0.10	Brown clay and sand with vegetation.

**Analytical Report Number : 23-17615**

**Project / Site name: Begbroke**

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Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
2585619	HP340	None Supplied	0.10-0.20	Brown clay and sand with vegetation.
2585620	HP340	None Supplied	0.20-0.30	Brown clay and sand with vegetation.
2585621	HP341	None Supplied	0.00-0.10	Brown loam and sand with gravel and vegetation.
2585622	HP341	None Supplied	0.10-0.20	Brown loam and sand with gravel and vegetation.
2585623	HP341	None Supplied	0.20-0.30	Brown clay and sand with vegetation.
2585624	HP342	None Supplied	0.00-0.10	Brown loam and sand with vegetation.
2585625	HP342	None Supplied	0.10-0.20	Brown clay and sand with vegetation.
2585626	HP342	None Supplied	0.20-0.30	Light brown clay and sand.
2585627	HP343	None Supplied	0.00-0.10	Brown sandy clay with vegetation.
2585628	HP343	None Supplied	0.10-0.20	Brown sandy clay with vegetation.
2585629	HP343	None Supplied	0.20-0.30	Light brown clay and sand.
2585630	HP344	None Supplied	0.00-0.10	Brown loam and sand with gravel and vegetation.
2585631	HP344	None Supplied	0.10-0.20	Brown loam and sand with gravel and vegetation.
2585632	HP344	None Supplied	0.20-0.30	Brown loam and sand with gravel and vegetation.
2585633	HP345	None Supplied	0.00-0.10	Brown loam and sand with gravel and vegetation.
2585634	HP345	None Supplied	0.10-0.20	Brown sandy clay with gravel and vegetation.
2585635	HP345	None Supplied	0.20-0.30	Brown sandy clay with gravel and vegetation.
2585636	HP346	None Supplied	0.00-0.10	Brown loam and sand with gravel and vegetation.
2585637	HP346	None Supplied	0.10-0.20	Brown loam and sand with gravel and vegetation.
2585638	HP346	None Supplied	0.20-0.30	Brown loam and sand with gravel and vegetation.
2585639	HP347	None Supplied	0.00-0.10	Brown loam and sand with gravel and vegetation.
2585640	HP347	None Supplied	0.10-0.20	Brown loam and sand with gravel and vegetation.
2585641	HP347	None Supplied	0.20-0.30	Brown loam and sand with gravel and vegetation.
2585642	HP348	None Supplied	0.00-0.10	Brown loam and sand with gravel and vegetation.
2585643	HP348	None Supplied	0.10-0.20	Brown loam and sand with gravel and vegetation.
2585644	HP348	None Supplied	0.20-0.30	Brown loam and sand with gravel and vegetation.
2585645	HP349	None Supplied	0.00-0.10	Brown loam and sand with gravel and vegetation.
2585646	HP349	None Supplied	0.10-0.20	Brown loam and sand with gravel and vegetation.
2585647	HP349	None Supplied	0.20-0.30	Brown loam and sand with gravel and vegetation.
2585648	HP350	None Supplied	0.00-0.10	Brown loam and sand with gravel and vegetation.
2585649	HP350	None Supplied	0.10-0.20	Brown loam and sand with gravel and vegetation.
2585650	HP350	None Supplied	0.20-0.30	Brown loam and sand with gravel and vegetation.



Analytical Report Number : 23-17615  
 Project / Site name: Begbroke

**Water matrix abbreviations:**

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Moisture Content	Moisture content, determined gravimetrically. (30 oC)	In house method.	L019-UK/PL	W	NONE
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Organic matter (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	In house method.	L009-PL	D	MCERTS

For method numbers ending in 'UK or A' analysis have been carried out in our laboratory in the United Kingdom (WATFORD).

For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).

For method numbers ending in 'PL or B' analysis have been carried out in our laboratory in Poland.

Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC. Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.



# TEST CERTIFICATE

DETERMINATION OF LIQUID AND PLASTIC LIMITS  
Tested in Accordance with: BS 1377-2:1990: Clause 4.3 and 5

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

4041

Client: Hydrock Consultants Ltd  
Client Address: 2-4 Hawthorne Park, Holdenby Road,  
Spratton, Northamptonshire,  
NN6 8LD  
Contact: Nathan Thompson  
Site Address: Begbroke

Client Reference: 19114  
Job Number: 23-18737-1  
Date Sampled: 02/02/2023  
Date Received: 17/02/2023  
Date Tested: 27/02/2023  
Sampled By: Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

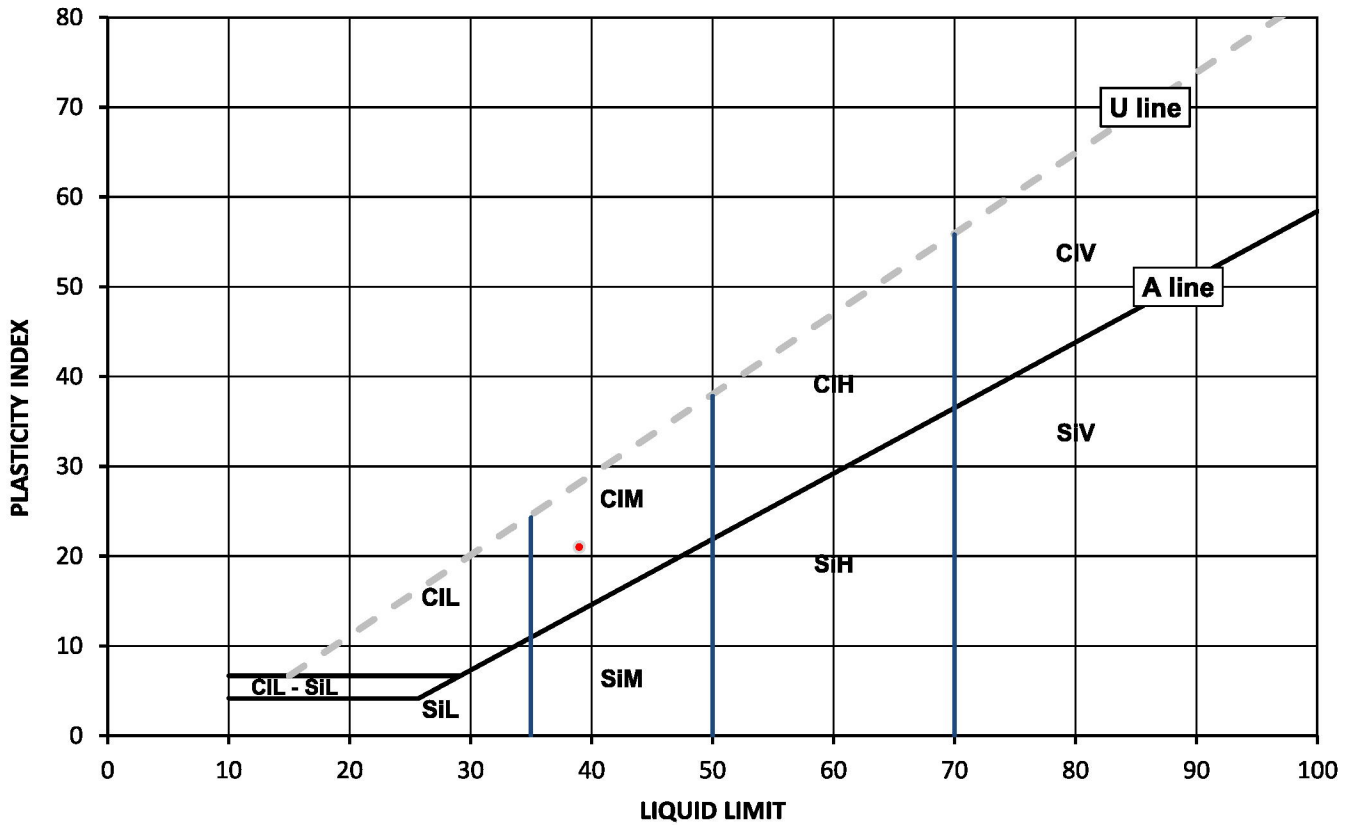
## Test Results:

Laboratory Reference: 2592788  
Hole No.: TP315  
Sample Reference: Not Given  
Sample Description: Yellowish brown sandy CLAY

Depth Top [m]: 0.40  
Depth Base [m]: 0.70  
Sample Type: B

Sample Preparation: Tested after washing to remove >425um

As Received Water Content [ W ] %	Liquid Limit [ WL ] %	Plastic Limit [ Wp ] %	Plasticity Index [ Ip ] %	% Passing 425µm BS Test Sieve
21	39	18	21	76



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

	Plasticity	Liquid Limit
Cl Clay	L Low	below 35
Si Silt	M Medium	35 to 50
	H High	50 to 70
	V Very high	exceeding 70
	O Organic	append to classification for organic material ( eg CIHO )

Note: Water Content by BS 1377-2: 1990: Clause 3.2

Remarks:

Signed:

Katarzyna Koziel  
Reporting Specialist  
for and on behalf of i2 Analytical Ltd

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# TEST CERTIFICATE

**DETERMINATION OF LIQUID AND PLASTIC LIMITS**  
Tested in Accordance with: BS 1377-2:1990: Clause 4.3 and 5

i2 Analytical Ltd  
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Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

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NN6 8LD  
Contact: Nathan Thompson  
Site Address: Begbroke

Client Reference: 19114  
Job Number: 23-18737-1  
Date Sampled: 02/02/2023  
Date Received: 17/02/2023  
Date Tested: 27/02/2023  
Sampled By: Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

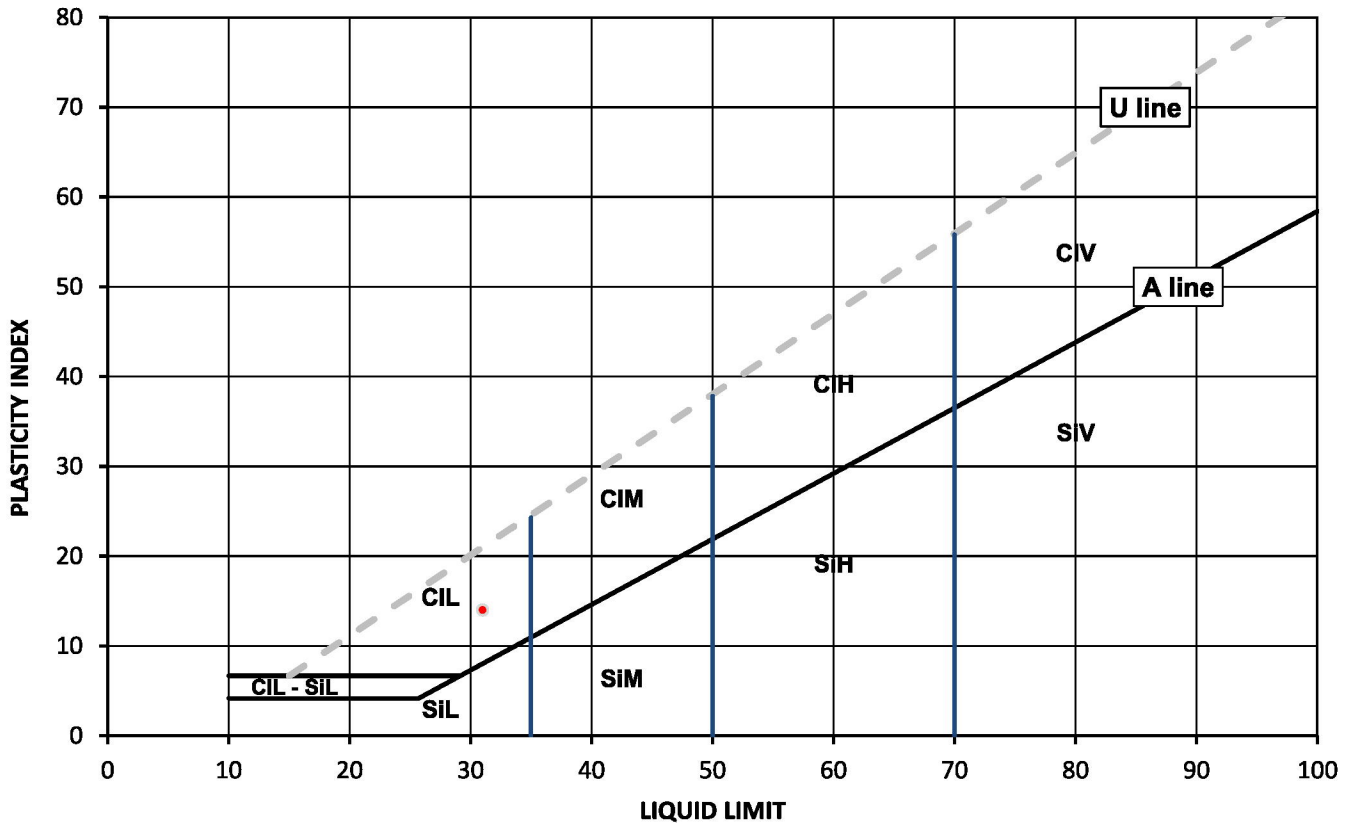
### Test Results:

Laboratory Reference: 2592790  
Hole No.: TP316  
Sample Reference: Not Given  
Sample Description: Yellowish brown slightly gravelly very sandy CLAY

Depth Top [m]: 0.30  
Depth Base [m]: 0.50  
Sample Type: B

Sample Preparation: Tested after washing to remove >425um

As Received Water Content [ W ] %	Liquid Limit [ WL ] %	Plastic Limit [ Wp ] %	Plasticity Index [ Ip ] %	% Passing 425µm BS Test Sieve
21	31	17	14	74



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

Cl	Clay	Plasticity	Liquid Limit
Si	Silt	L	below 35
		M	35 to 50
		H	50 to 70
		V	exceeding 70
		O	append to classification for organic material ( eg CIHO )

Note: Water Content by BS 1377-2: 1990: Clause 3.2

Remarks:

Signed:

Katarzyna Koziel  
Reporting Specialist  
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**DETERMINATION OF LIQUID AND PLASTIC LIMITS**  
Tested in Accordance with: BS 1377-2:1990: Clause 4.3 and 5

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

4041

Client: Hydrock Consultants Ltd  
Client Address: 2-4 Hawthorne Park, Holdenby Road,  
Spratton, Northamptonshire,  
NN6 8LD  
Contact: Nathan Thompson  
Site Address: Begbroke

Client Reference: 19114  
Job Number: 23-18737-1  
Date Sampled: 02/02/2023  
Date Received: 17/02/2023  
Date Tested: 27/02/2023  
Sampled By: Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

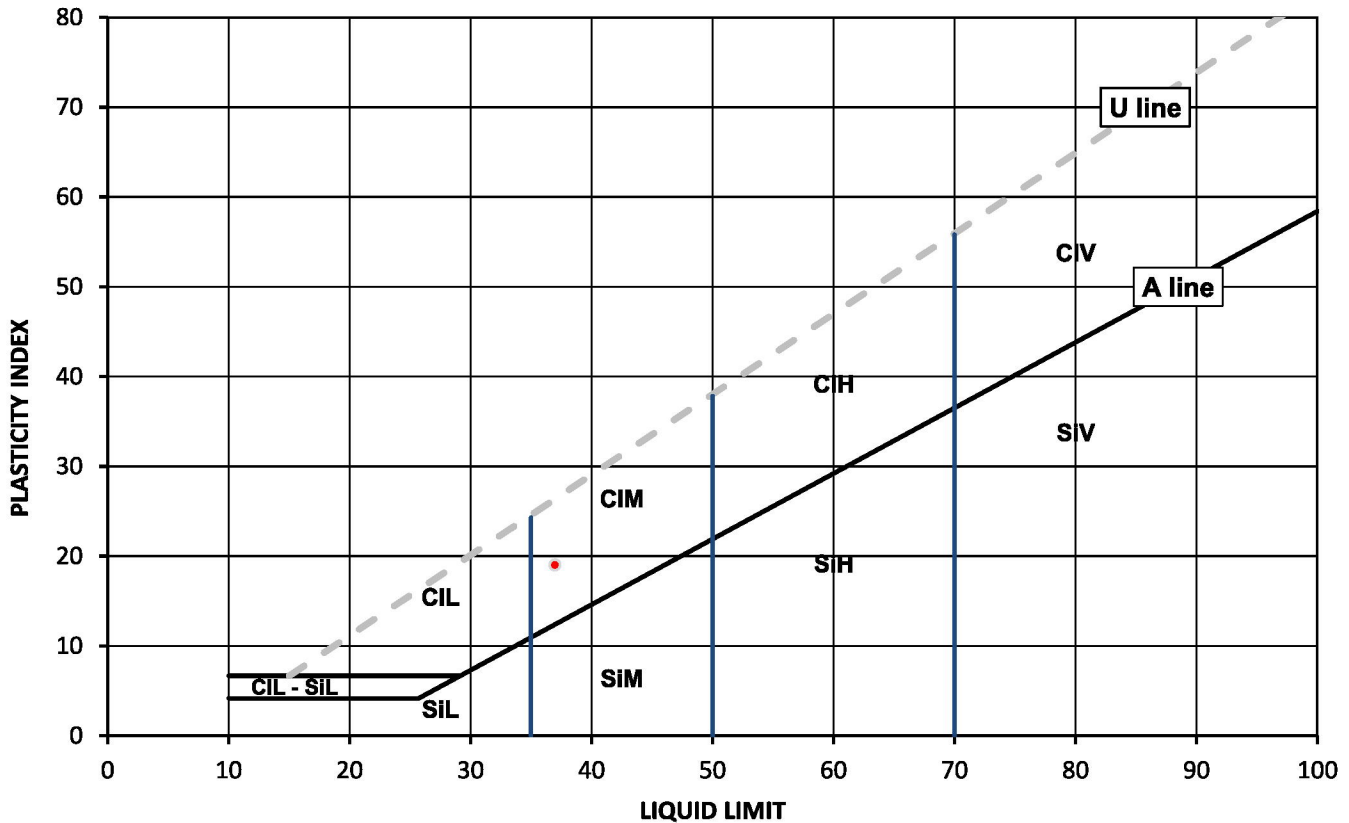
### Test Results:

Laboratory Reference: 2592792  
Hole No.: TP317  
Sample Reference: Not Given  
Sample Description: Greyish brown slightly gravelly sandy CLAY

Depth Top [m]: 0.30  
Depth Base [m]: 0.50  
Sample Type: B

Sample Preparation: Tested after >425um removed by hand

As Received Water Content [ W ] %	Liquid Limit [ WL ] %	Plastic Limit [ Wp ] %	Plasticity Index [ Ip ] %	% Passing 425µm BS Test Sieve
20	37	18	19	97



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

Cl	Clay	Plasticity	L	Low	Liquid Limit	below 35
Si	Silt		M	Medium		35 to 50
			H	High		50 to 70
			V	Very high		exceeding 70
			O	Organic		append to classification for organic material ( eg CIHO )

Note: Water Content by BS 1377-2: 1990: Clause 3.2

Remarks:

Signed:

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Reporting Specialist  
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Northampton NN4 7EB



Environmental Science

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Client: Hydrock Consultants Ltd  
Client Address: 2-4 Hawthorne Park, Holdenby Road,  
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NN6 8LD  
Contact: Nathan Thompson  
Site Address: Begbroke

Client Reference: 19114  
Job Number: 23-18737-1  
Date Sampled: 31/01/2023  
Date Received: 17/02/2023  
Date Tested: 28/02/2023  
Sampled By: Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

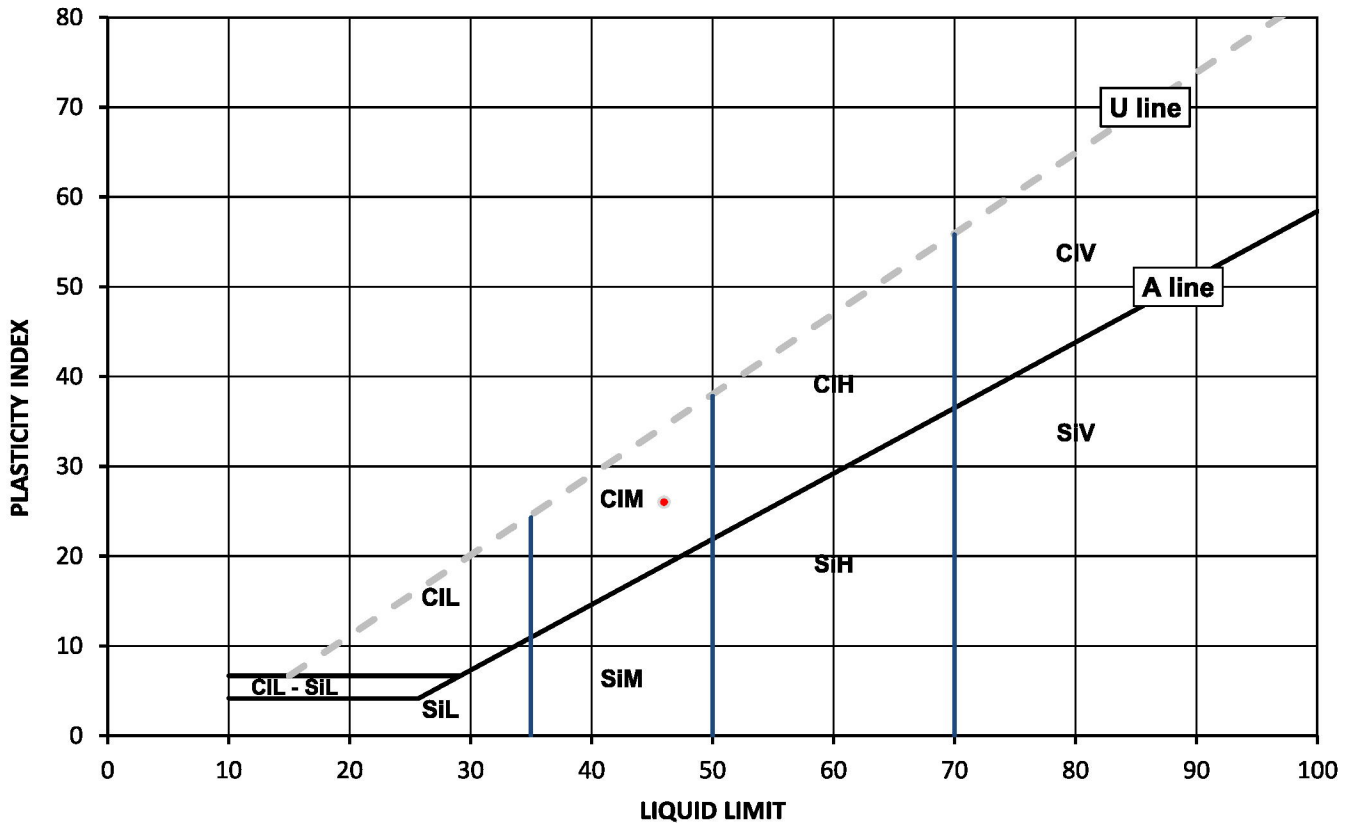
## Test Results:

Laboratory Reference: 2592794  
Hole No.: RO305  
Sample Reference: Not Given  
Sample Description: Brown very gravelly slightly sandy CLAY

Depth Top [m]: 4.00  
Depth Base [m]: 4.50  
Sample Type: U

Sample Preparation: Tested after washing to remove >425um

As Received Water Content [ W ] %	Liquid Limit [ WL ] %	Plastic Limit [ Wp ] %	Plasticity Index [ Ip ] %	% Passing 425µm BS Test Sieve
15	46	20	26	31



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

CI	Clay	Plasticity	Liquid Limit
Si	Silt	L	Low
		M	Medium
		H	High
		V	Very high
		O	Organic
			append to classification for organic material ( eg CIHO )
			below 35
			35 to 50
			50 to 70
			exceeding 70

Note: Water Content by BS 1377-2: 1990: Clause 3.2

Remarks:

Signed:

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Reporting Specialist  
for and on behalf of i2 Analytical Ltd

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Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

4041

Client: Hydrock Consultants Ltd  
Client Address: 2-4 Hawthorne Park, Holdenby Road,  
Spratton, Northamptonshire,  
NN6 8LD  
Contact: Nathan Thompson  
Site Address: Begbroke

Client Reference: 19114  
Job Number: 23-18737-1  
Date Sampled: 31/01/2023  
Date Received: 17/02/2023  
Date Tested: 24/02/2023  
Sampled By: Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

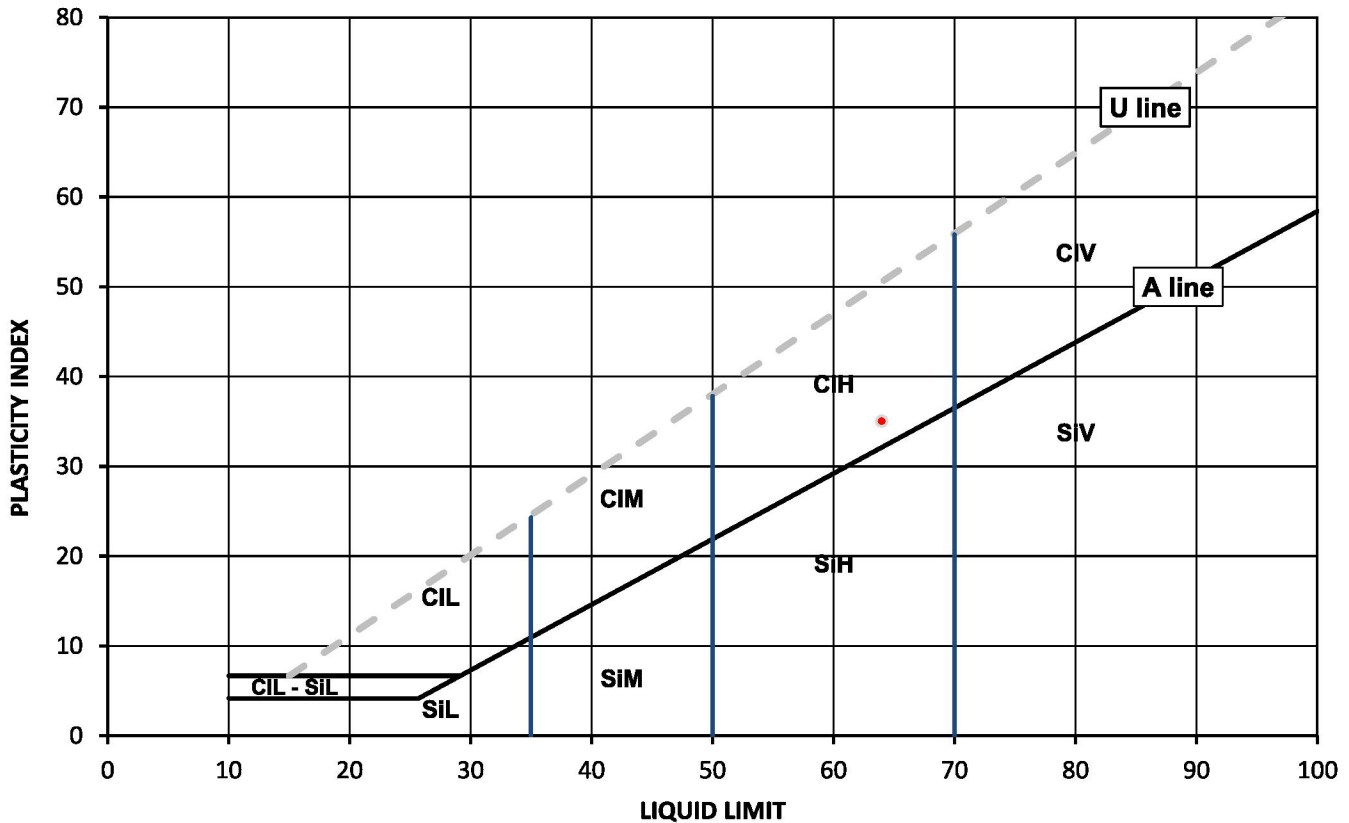
### Test Results:

Laboratory Reference: 2592796  
Hole No.: RO305  
Sample Reference: Not Given  
Sample Description: Brownish grey CLAY

Depth Top [m]: 6.20  
Depth Base [m]: Not Given  
Sample Type: D

Sample Preparation: Tested in natural condition

As Received Water Content [ W ] %	Liquid Limit [ WL ] %	Plastic Limit [ Wp ] %	Plasticity Index [ Ip ] %	% Passing 425µm BS Test Sieve
27	64	29	35	100



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

	Plasticity	Liquid Limit
CI Clay	L Low	below 35
SI Silt	M Medium	35 to 50
	H High	50 to 70
	V Very high	exceeding 70
	O Organic	append to classification for organic material ( eg CIHO )

Note: Water Content by BS 1377-2: 1990: Clause 3.2

Remarks:

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# TEST CERTIFICATE

DETERMINATION OF LIQUID AND PLASTIC LIMITS  
Tested in Accordance with: BS 1377-2:1990: Clause 4.3 and 5

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

4041

Client: Hydrock Consultants Ltd  
Client Address: 2-4 Hawthorne Park, Holdenby Road,  
Spratton, Northamptonshire,  
NN6 8LD  
Contact: Nathan Thompson  
Site Address: Begbroke

Client Reference: 19114  
Job Number: 23-18737-1  
Date Sampled: 31/01/2023  
Date Received: 17/02/2023  
Date Tested: 24/02/2023  
Sampled By: Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

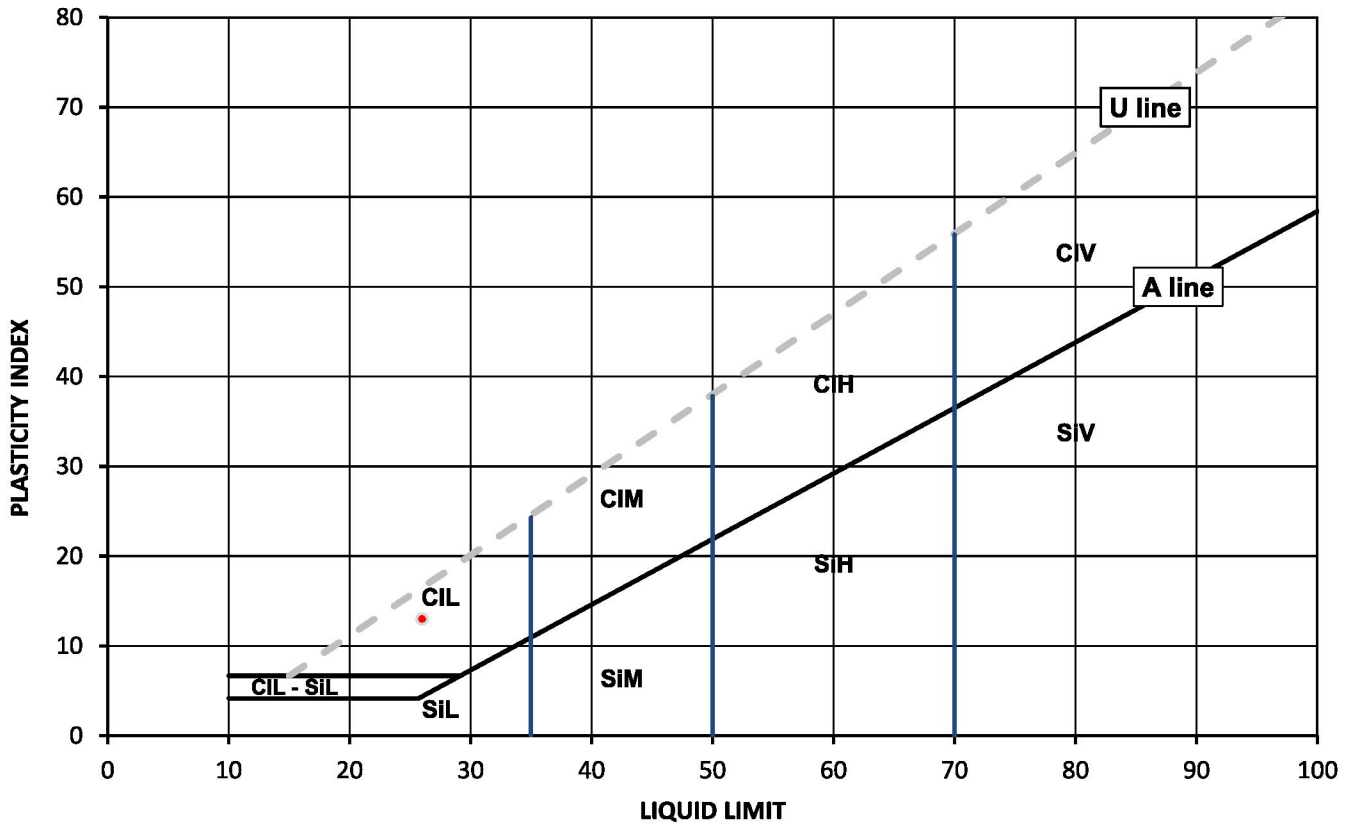
## Test Results:

Laboratory Reference: 2592798  
Hole No.: RO305  
Sample Reference: Not Given  
Sample Description: Grey slightly gravelly very sandy CLAY

Depth Top [m]: 11.60  
Depth Base [m]: Not Given  
Sample Type: D

Sample Preparation: Tested after >425um removed by hand

As Received Water Content [ W ] %	Liquid Limit [ WL ] %	Plastic Limit [ Wp ] %	Plasticity Index [ Ip ] %	% Passing 425µm BS Test Sieve
24	26	13	13	97



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

Cl	Clay	Plasticity	L	Low	Liquid Limit	below 35
Si	Silt	M	Medium	35 to 50		
		H	High	50 to 70		
		V	Very high	exceeding 70		
		O	Organic	append to classification for organic material ( eg CIHO )		

Note: Water Content by BS 1377-2: 1990: Clause 3.2

Remarks:

Signed:

Katarzyna Koziel  
Reporting Specialist  
for and on behalf of i2 Analytical Ltd

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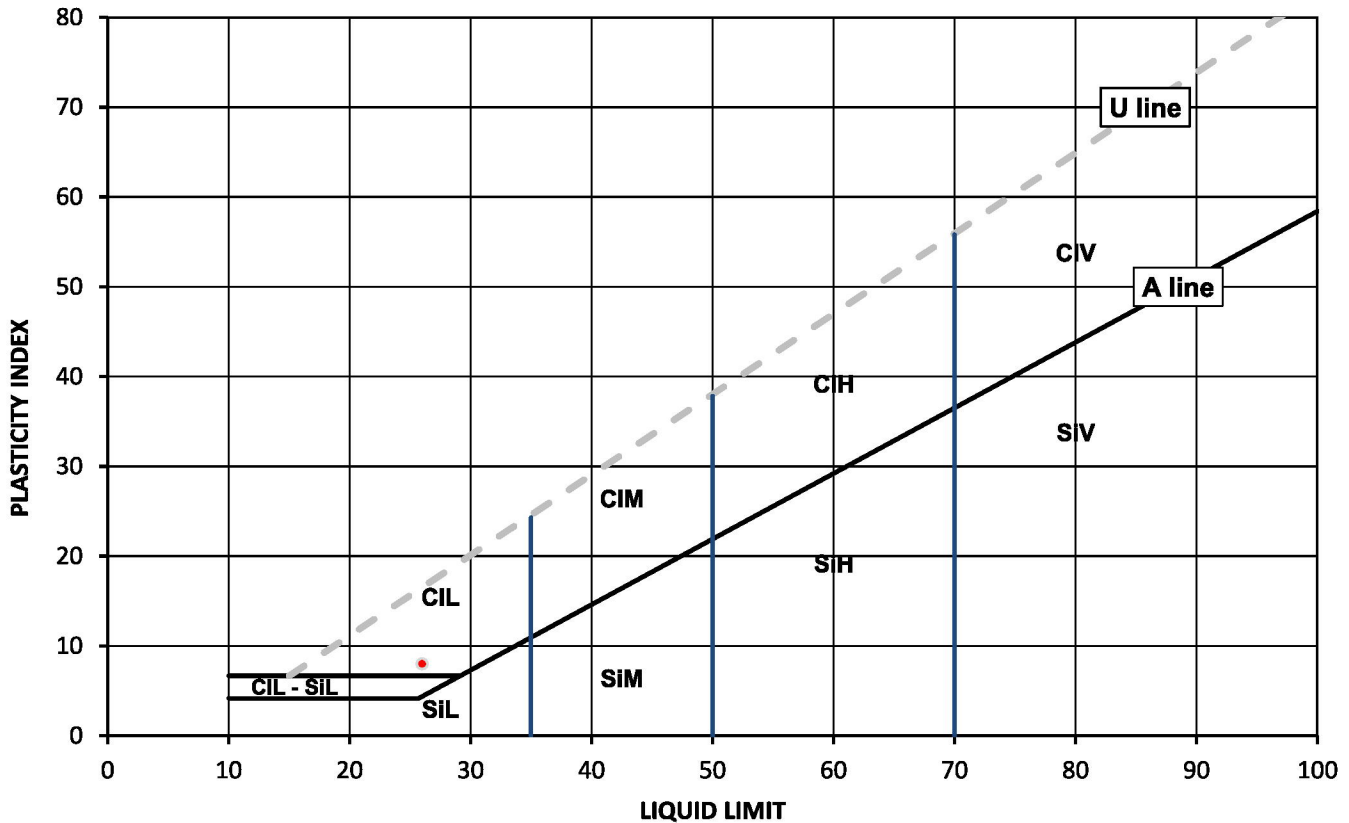
## Test Results:

Laboratory Reference: 2592799  
Hole No.: RO305  
Sample Reference: Not Given  
Sample Description: Grey very sandy CLAY

Depth Top [m]: 12.70  
Depth Base [m]: Not Given  
Sample Type: D

Sample Preparation: Tested in natural condition

As Received Water Content [ W ] %	Liquid Limit [ WL ] %	Plastic Limit [ Wp ] %	Plasticity Index [ Ip ] %	% Passing 425µm BS Test Sieve
20	26	18	8	100



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

	Plasticity	Liquid Limit
CI Clay	L Low	below 35
Si Silt	M Medium	35 to 50
	H High	50 to 70
	V Very high	exceeding 70
	O Organic	append to classification for organic material ( eg CIHO )

Note: Water Content by BS 1377-2: 1990: Clause 3.2

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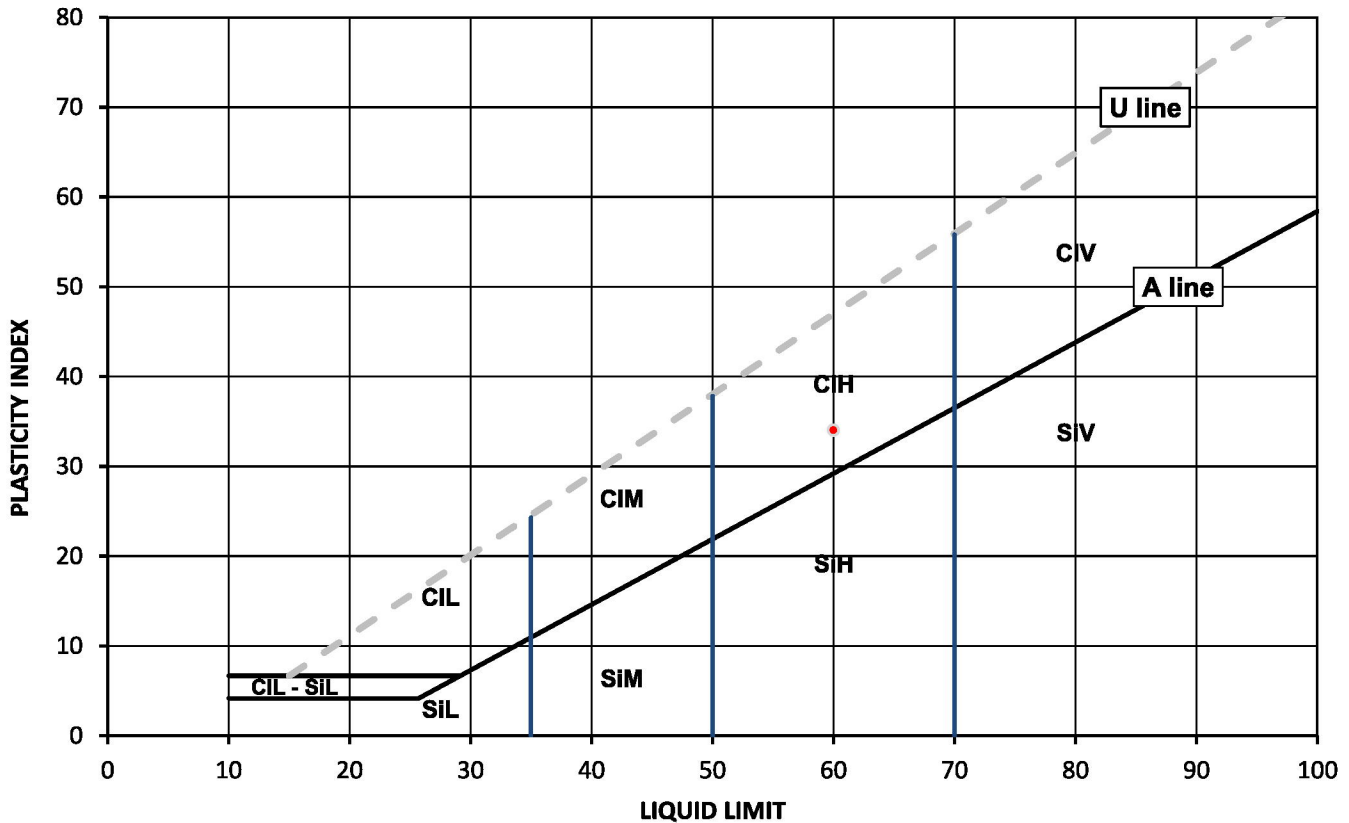
### Test Results:

Laboratory Reference: 2592800  
Hole No.: RO305  
Sample Reference: Not Given  
Sample Description: Grey CLAY

Depth Top [m]: 16.50  
Depth Base [m]: Not Given  
Sample Type: D

Sample Preparation: Tested in natural condition

As Received Water Content [ W ] %	Liquid Limit [ WL ] %	Plastic Limit [ Wp ] %	Plasticity Index [ Ip ] %	% Passing 425µm BS Test Sieve
25	60	26	34	100



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

Cl	Clay	Plasticity	L	Low	Liquid Limit	below 35
Si	Silt		M	Medium		35 to 50
			H	High		50 to 70
			V	Very high		exceeding 70
			O	Organic		append to classification for organic material ( eg CIHO )

Note: Water Content by BS 1377-2: 1990: Clause 3.2

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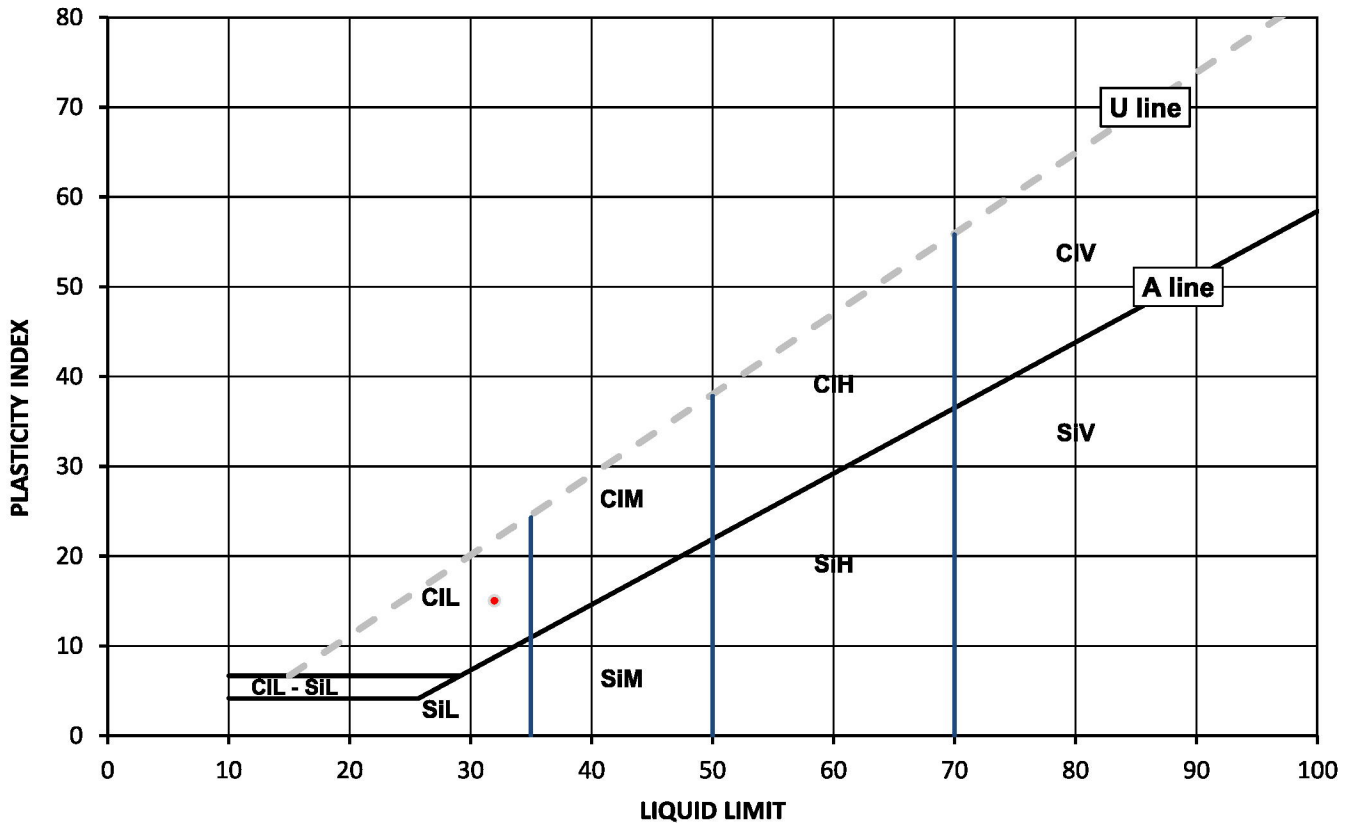
### Test Results:

Laboratory Reference: 2592801  
Hole No.: TP302  
Sample Reference: Not Given  
Sample Description: Brown clayey SAND

Depth Top [m]: 0.80  
Depth Base [m]: 1.00  
Sample Type: B

Sample Preparation: Tested after washing to remove >425um

As Received Water Content [ W ] %	Liquid Limit [ WL ] %	Plastic Limit [ Wp ] %	Plasticity Index [ Ip ] %	% Passing 425µm BS Test Sieve
18	32	17	15	69



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

Cl	Clay	Plasticity	Liquid Limit
Si	Silt	L	Low
		M	Medium
		H	High
		V	Very high
		O	Organic
			append to classification for organic material ( eg CIHO )
			below 35
			35 to 50
			50 to 70
			exceeding 70

Note: Water Content by BS 1377-2: 1990: Clause 3.2

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Site Address: Begbroke

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Job Number: 23-18737-1  
Date Sampled: 02/02/2023  
Date Received: 17/02/2023  
Date Tested: 27/02/2023  
Sampled By: Not Given

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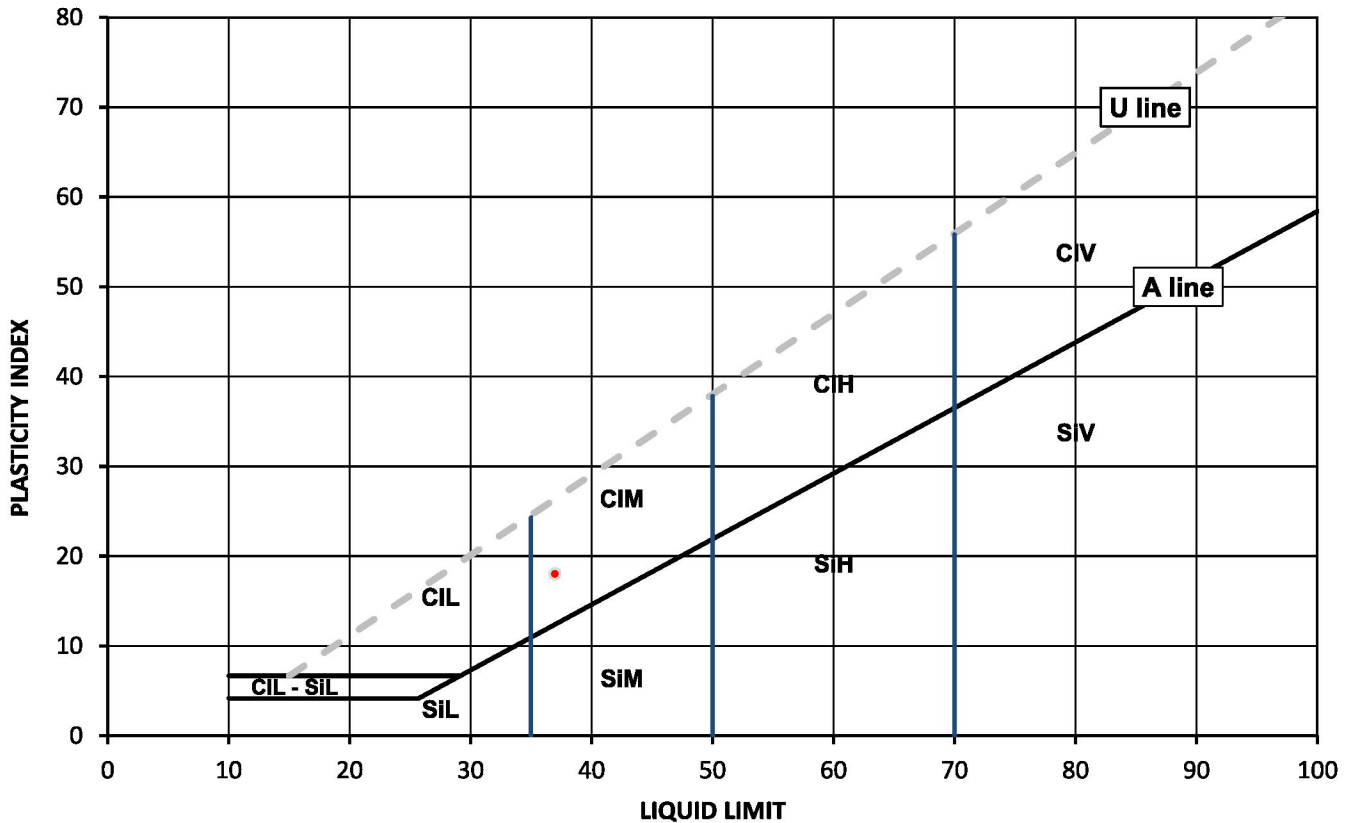
### Test Results:

Laboratory Reference: 2592802  
Hole No.: TP303  
Sample Reference: Not Given  
Sample Description: Brown sandy CLAY

Depth Top [m]: 0.30  
Depth Base [m]: 0.60  
Sample Type: B

Sample Preparation: Tested after washing to remove >425um

As Received Water Content [ W ] %	Liquid Limit [ WL ] %	Plastic Limit [ Wp ] %	Plasticity Index [ Ip ] %	% Passing 425µm BS Test Sieve
22	37	19	18	84



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

Cl	Clay	Plasticity	Liquid Limit
Si	Silt	L	Low
		M	Medium
		H	High
		V	Very high
		O	Organic
			append to classification for organic material ( eg CIHO )
			below 35
			35 to 50
			50 to 70
			exceeding 70

Note: Water Content by BS 1377-2: 1990: Clause 3.2

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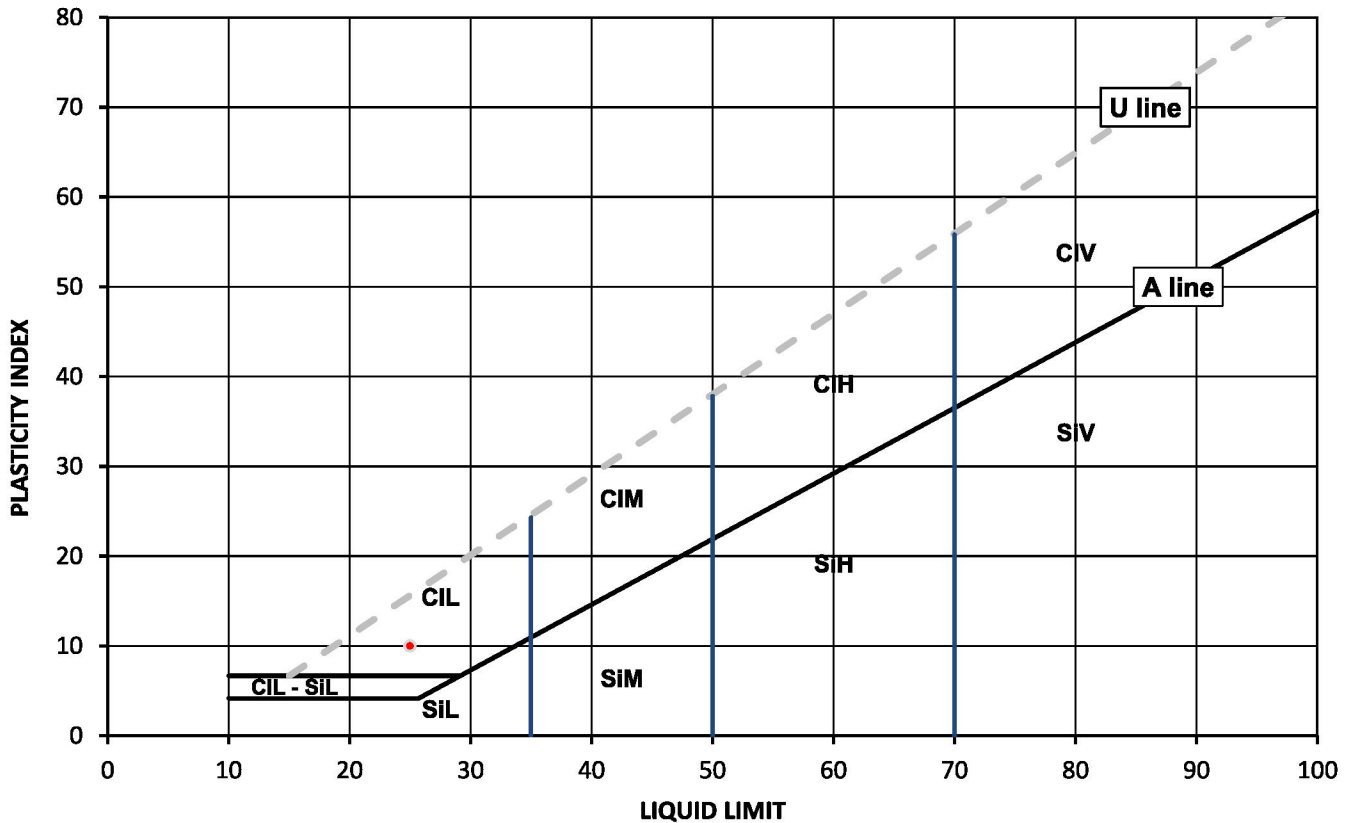
### Test Results:

Laboratory Reference: 2592804  
Hole No.: TP304  
Sample Reference: Not Given  
Sample Description: Brown slightly gravelly clayey SAND

Depth Top [m]: 0.60  
Depth Base [m]: 0.80  
Sample Type: B

Sample Preparation: Tested after >425um removed by hand

As Received Water Content [ W ] %	Liquid Limit [ WL ] %	Plastic Limit [ Wp ] %	Plasticity Index [ Ip ] %	% Passing 425µm BS Test Sieve
18	25	15	10	97



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

Cl	Clay	Plasticity	L	Low	Liquid Limit	below 35
Si	Silt		M	Medium		35 to 50
			H	High		50 to 70
			V	Very high		exceeding 70
			O	Organic		append to classification for organic material ( eg CIHO )

Note: Water Content by BS 1377-2: 1990: Clause 3.2

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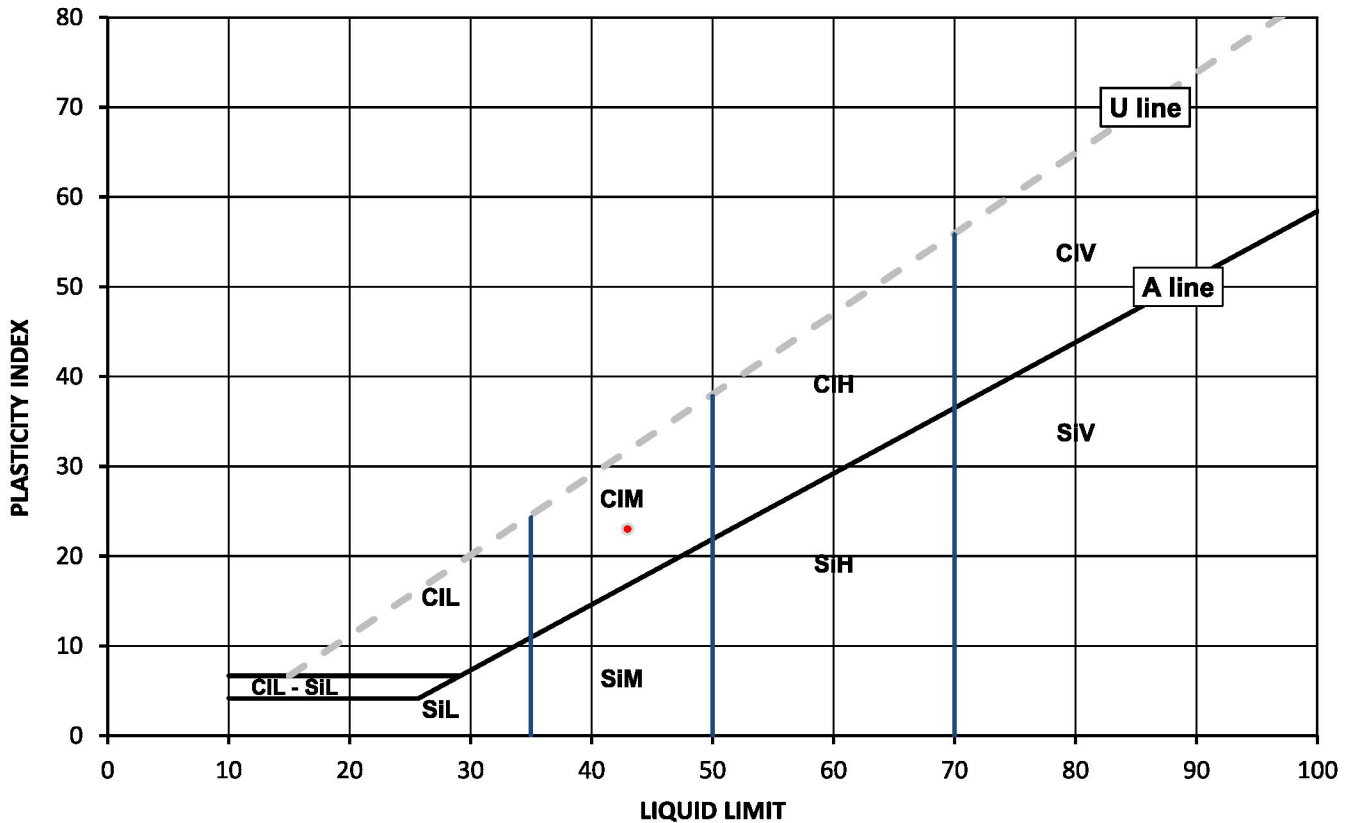
### Test Results:

Laboratory Reference: 2592807  
Hole No.: TP306  
Sample Reference: Not Given  
Sample Description: Yellowish brown slightly gravelly sandy CLAY

Depth Top [m]: 0.60  
Depth Base [m]: 0.80  
Sample Type: B

Sample Preparation: Tested after washing to remove >425um

As Received Water Content [ W ] %	Liquid Limit [ WL ] %	Plastic Limit [ Wp ] %	Plasticity Index [ Ip ] %	% Passing 425µm BS Test Sieve
20	43	20	23	79



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

CI	Clay	Plasticity	Liquid Limit
Si	Silt	L	Low
		M	Medium
		H	High
		V	Very high
		O	Organic
			append to classification for organic material ( eg CIHO )

Note: Water Content by BS 1377-2: 1990: Clause 3.2

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Date Received: 17/02/2023  
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Sampled By: Not Given

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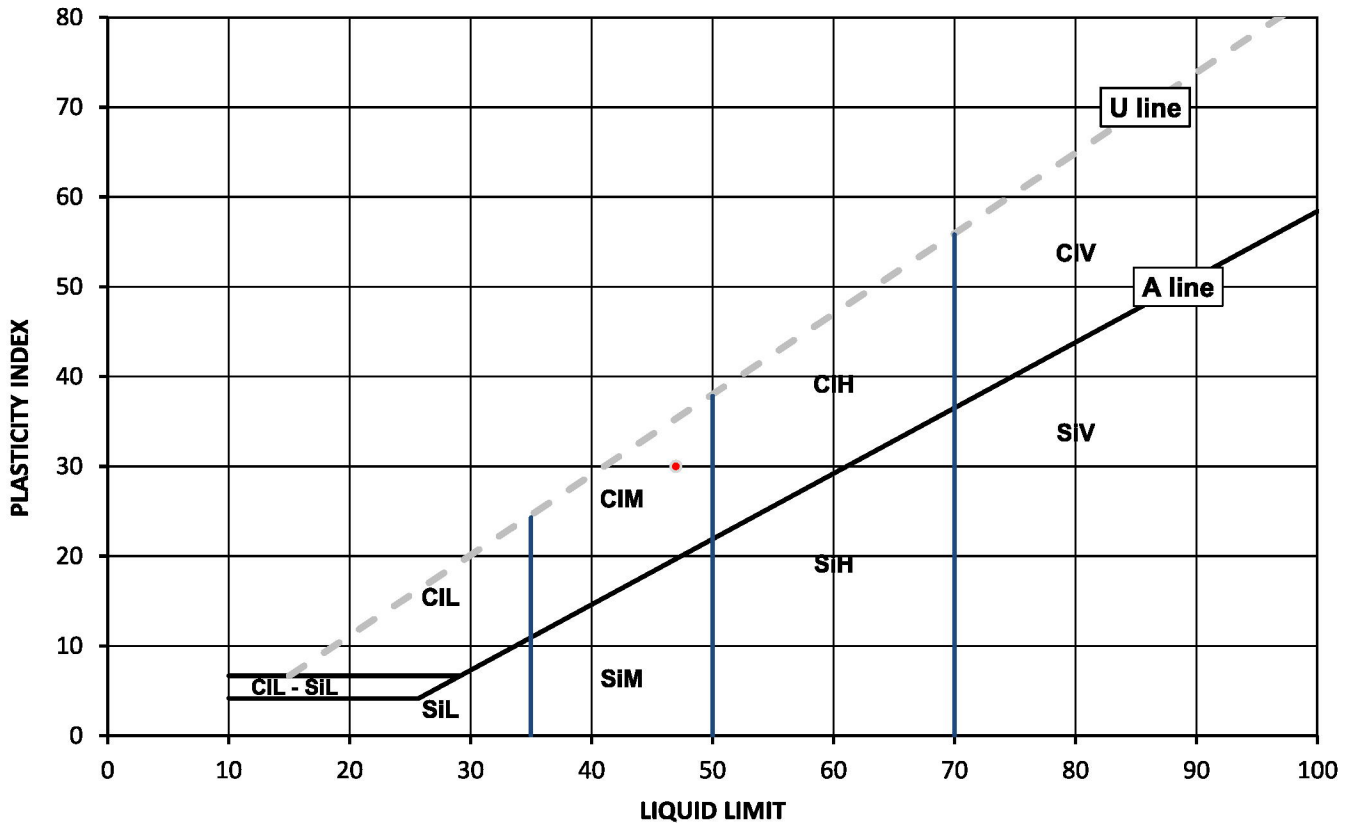
### Test Results:

Laboratory Reference: 2592808  
Hole No.: TP307  
Sample Reference: Not Given  
Sample Description: Greyish brown sandy CLAY

Depth Top [m]: 0.30  
Depth Base [m]: 0.50  
Sample Type: B

Sample Preparation: Tested after >425um removed by hand

As Received Water Content [ W ] %	Liquid Limit [ WL ] %	Plastic Limit [ Wp ] %	Plasticity Index [ Ip ] %	% Passing 425µm BS Test Sieve
28	47	17	30	94



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

CI	Clay	Plasticity	Liquid Limit
Si	Silt	L	Low
		M	Medium
		H	High
		V	Very high
		O	Organic
			append to classification for organic material ( eg CIHO )

Note: Water Content by BS 1377-2: 1990: Clause 3.2

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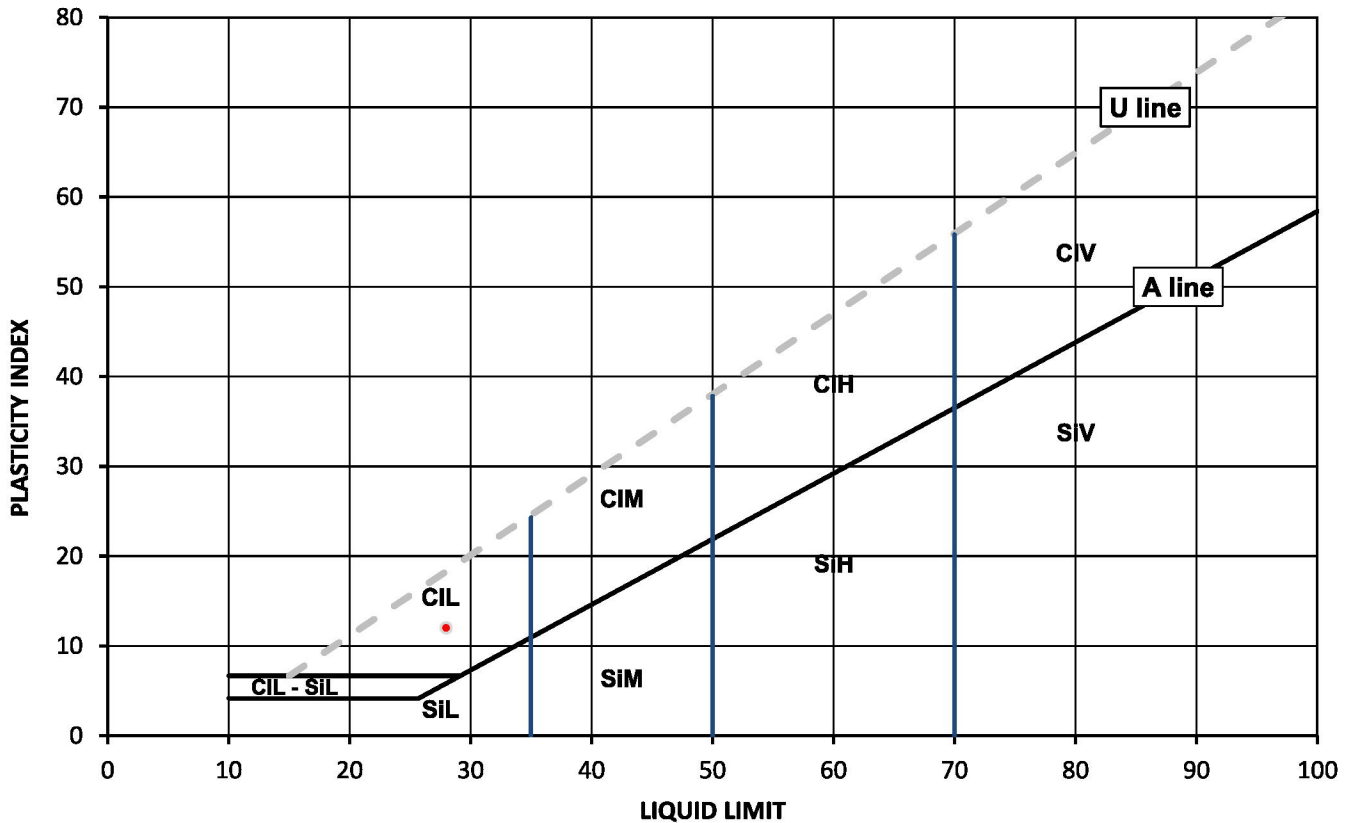
### Test Results:

Laboratory Reference: 2592810  
Hole No.: TP307  
Sample Reference: Not Given  
Sample Description: Greyish gravelly sandy CLAY

Depth Top [m]: 2.20  
Depth Base [m]: 2.40  
Sample Type: B

Sample Preparation: Tested after washing to remove >425um

As Received Water Content [ W ] %	Liquid Limit [ WL ] %	Plastic Limit [ Wp ] %	Plasticity Index [ Ip ] %	% Passing 425µm BS Test Sieve
14	28	16	12	62



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

CI	Clay	Plasticity	Liquid Limit
Si	Silt	L	below 35
		M	35 to 50
		H	50 to 70
		V	exceeding 70
		O	append to classification for organic material ( eg CIHO )

Note: Water Content by BS 1377-2: 1990: Clause 3.2

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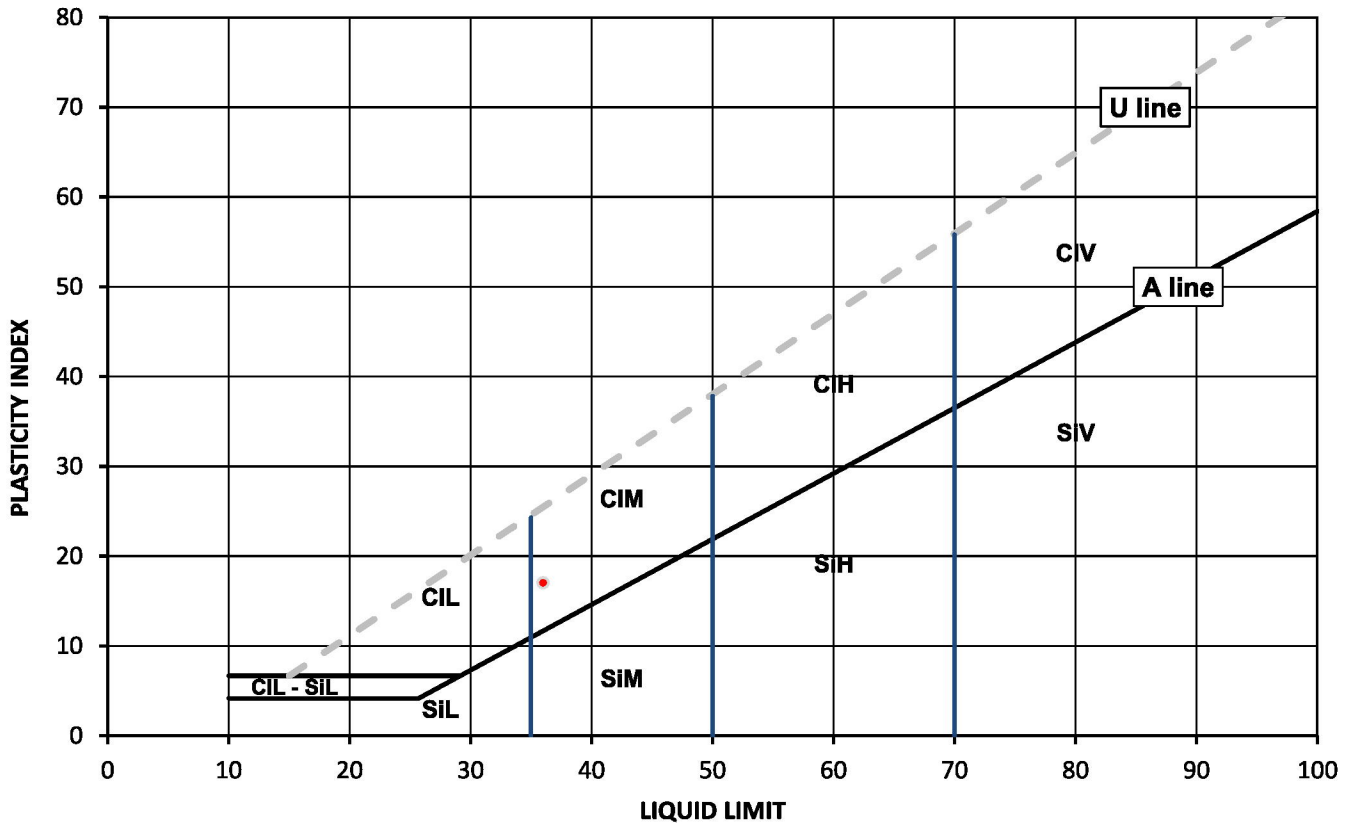
### Test Results:

Laboratory Reference: 2592811  
Hole No.: TP308  
Sample Reference: Not Given  
Sample Description: Greyish brown slightly gravelly sandy CLAY

Depth Top [m]: 1.30  
Depth Base [m]: 1.70  
Sample Type: B

Sample Preparation: Tested after washing to remove >425um

As Received Water Content [ W ] %	Liquid Limit [ WL ] %	Plastic Limit [ Wp ] %	Plasticity Index [ Ip ] %	% Passing 425µm BS Test Sieve
18	36	19	17	83



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

Cl	Clay	Plasticity	Liquid Limit
Si	Silt	L	Low
		M	Medium
		H	High
		V	Very high
		O	Organic
			below 35
			35 to 50
			50 to 70
			exceeding 70
			append to classification for organic material ( eg CIHO )

Note: Water Content by BS 1377-2: 1990: Clause 3.2

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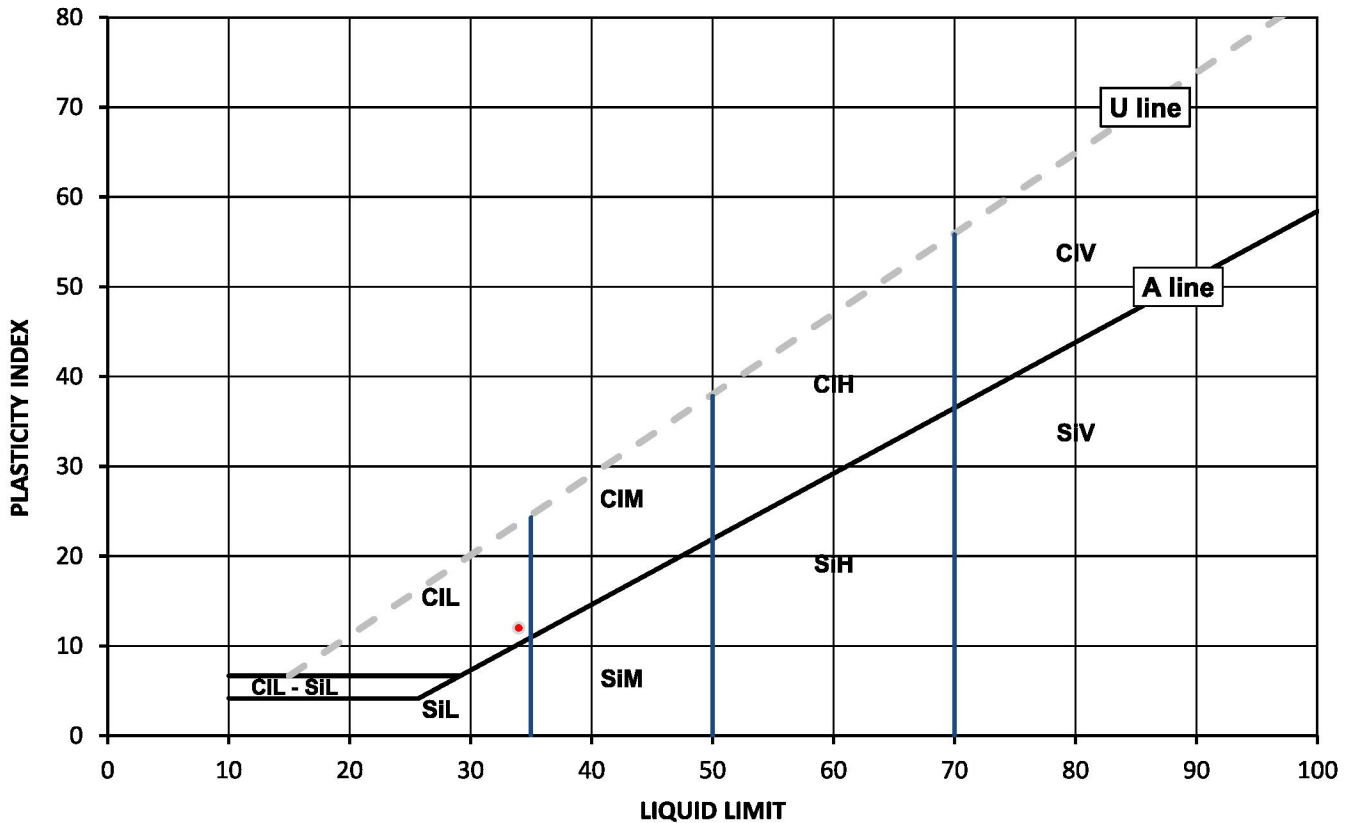
### Test Results:

Laboratory Reference: 2592813  
Hole No.: TP309  
Sample Reference: Not Given  
Sample Description: Greyish brown slightly gravelly very sandy CLAY

Depth Top [m]: 1.90  
Depth Base [m]: 2.00  
Sample Type: B

Sample Preparation: Tested after washing to remove >425um

As Received Water Content [ W ] %	Liquid Limit [ WL ] %	Plastic Limit [ Wp ] %	Plasticity Index [ Ip ] %	% Passing 425µm BS Test Sieve
17	34	22	12	86



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

CI	Clay	Plasticity	Liquid Limit
Si	Silt	L	below 35
		M	35 to 50
		H	50 to 70
		V	exceeding 70
		O	append to classification for organic material ( eg CIHO )

Note: Water Content by BS 1377-2: 1990: Clause 3.2

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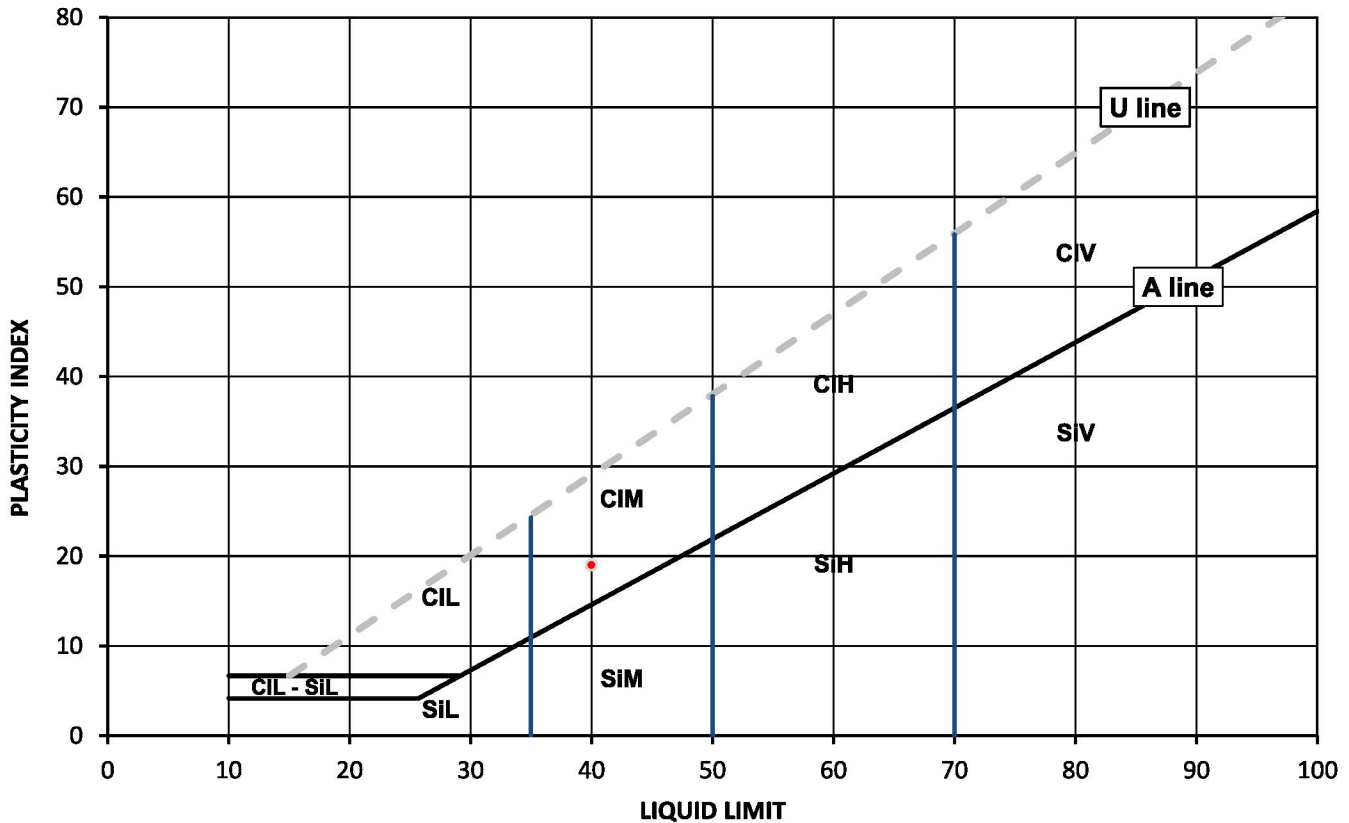
## Test Results:

Laboratory Reference: 2592814  
Hole No.: TP312  
Sample Reference: Not Given  
Sample Description: Brown slightly gravelly sandy CLAY

Depth Top [m]: 0.30  
Depth Base [m]: 0.60  
Sample Type: B

Sample Preparation: Tested after >425um removed by hand

As Received Water Content [ W ] %	Liquid Limit [ WL ] %	Plastic Limit [ Wp ] %	Plasticity Index [ Ip ] %	% Passing 425µm BS Test Sieve
24	40	21	19	97



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

CI	Clay	Plasticity	Liquid Limit
Si	Silt	L	Low
		M	Medium
		H	High
		V	Very high
		O	Organic
			append to classification for organic material ( eg CIHO )
			below 35
			35 to 50
			50 to 70
			exceeding 70

Note: Water Content by BS 1377-2: 1990: Clause 3.2

Remarks:

Signed:

Katarzyna Koziel  
Reporting Specialist  
for and on behalf of i2 Analytical Ltd

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# TEST CERTIFICATE

DETERMINATION OF LIQUID AND PLASTIC LIMITS  
Tested in Accordance with: BS 1377-2:1990: Clause 4.3 and 5

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

4041

Client: Hydrock Consultants Ltd  
Client Address: 2-4 Hawthorne Park, Holdenby Road,  
Spratton, Northamptonshire,  
NN6 8LD  
Contact: Nathan Thompson  
Site Address: Begbroke

Client Reference: 19114  
Job Number: 23-18737-1  
Date Sampled: 06/02/2023  
Date Received: 17/02/2023  
Date Tested: 27/02/2023  
Sampled By: Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

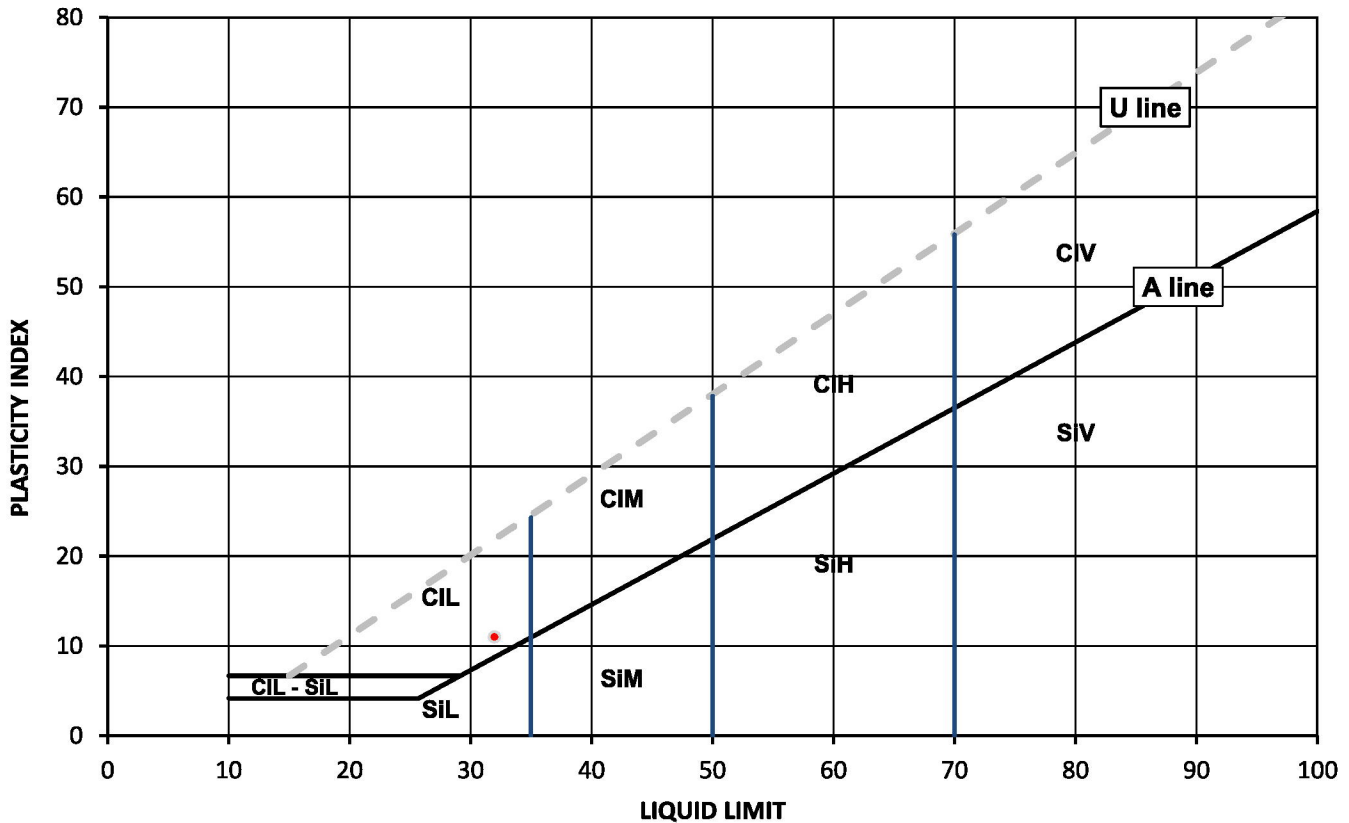
## Test Results:

Laboratory Reference: 2592816  
Hole No.: TP312  
Sample Reference: Not Given  
Sample Description: Greyish brown very sandy CLAY

Depth Top [m]: 2.00  
Depth Base [m]: 2.50  
Sample Type: B

Sample Preparation: Tested in natural condition

As Received Water Content [ W ] %	Liquid Limit [ WL ] %	Plastic Limit [ Wp ] %	Plasticity Index [ Ip ] %	% Passing 425µm BS Test Sieve
24	32	21	11	100



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

	Plasticity	Liquid Limit
Cl Clay	L Low	below 35
Si Silt	M Medium	35 to 50
	H High	50 to 70
	V Very high	exceeding 70
	O Organic	append to classification for organic material ( eg CIHO )

Note: Water Content by BS 1377-2: 1990: Clause 3.2

Remarks:

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# TEST CERTIFICATE

DETERMINATION OF LIQUID AND PLASTIC LIMITS  
Tested in Accordance with: BS 1377-2:1990: Clause 4.3 and 5

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

4041

Client: Hydrock Consultants Ltd  
Client Address: 2-4 Hawthorne Park, Holdenby Road,  
Spratton, Northamptonshire,  
NN6 8LD  
Contact: Nathan Thompson  
Site Address: Begbroke

Client Reference: 19114  
Job Number: 23-18737-1  
Date Sampled: 07/02/2023  
Date Received: 17/02/2023  
Date Tested: 24/02/2023  
Sampled By: Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

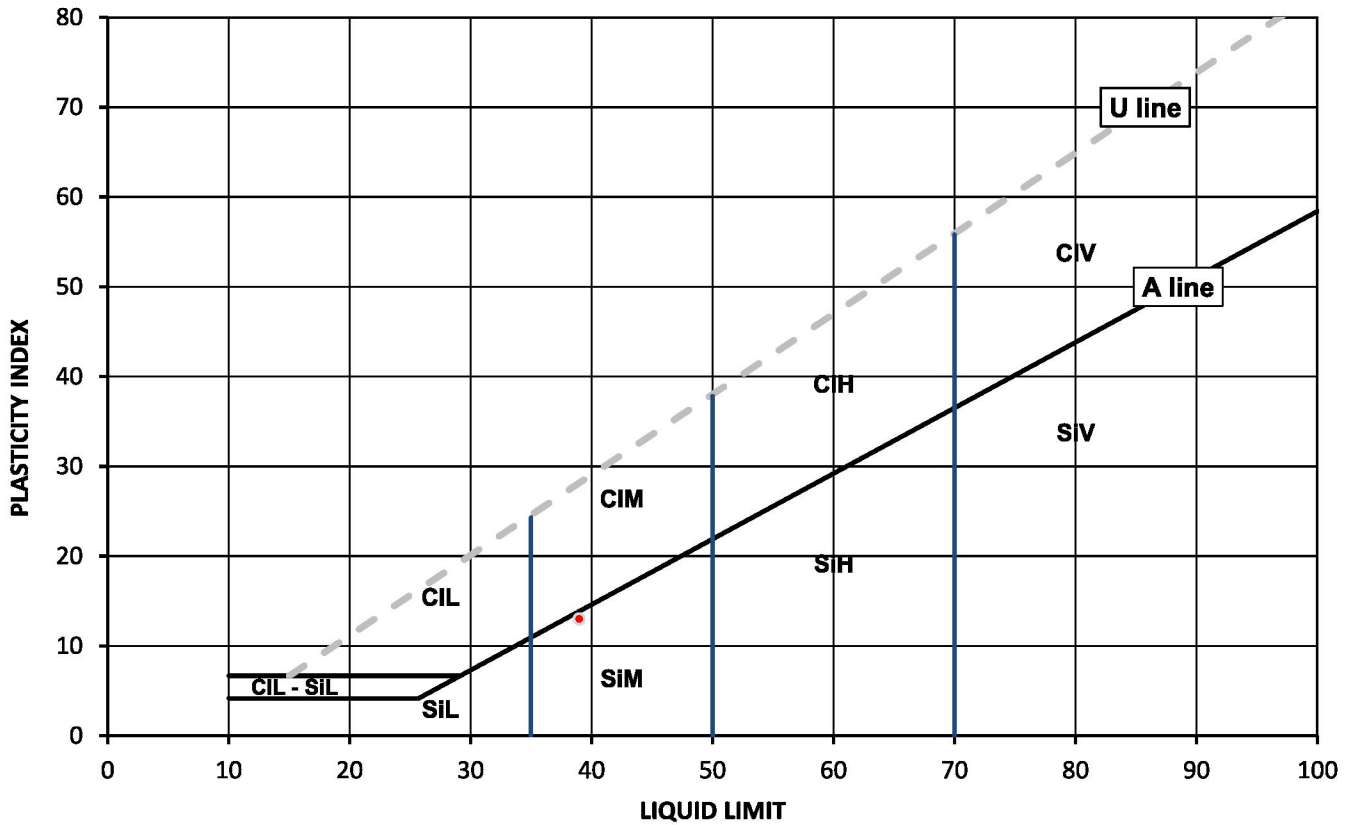
### Test Results:

Laboratory Reference: 2592818  
Hole No.: RO301  
Sample Reference: Not Given  
Sample Description: Grey slightly gravelly sandy silty CLAY

Depth Top [m]: 8.00  
Depth Base [m]: 8.00  
Sample Type: D

Sample Preparation: Tested after >425um removed by hand

As Received Water Content [ W ] %	Liquid Limit [ WL ] %	Plastic Limit [ Wp ] %	Plasticity Index [ Ip ] %	% Passing 425µm BS Test Sieve
23	39	26	13	99



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

CI	Clay	Plasticity	Liquid Limit
Si	Silt	L	Low
		M	Medium
		H	High
		V	Very high
		O	Organic
			append to classification for organic material ( eg CIHO )

Note: Water Content by BS 1377-2: 1990: Clause 3.2

Remarks:

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# TEST CERTIFICATE

**DETERMINATION OF LIQUID AND PLASTIC LIMITS**  
Tested in Accordance with: BS 1377-2:1990: Clause 4.3 and 5

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

4041

Client: Hydrock Consultants Ltd  
Client Address: 2-4 Hawthorne Park, Holdenby Road,  
Spratton, Northamptonshire,  
NN6 8LD  
Contact: Nathan Thompson  
Site Address: Begbroke

Client Reference: 19114  
Job Number: 23-18737-1  
Date Sampled: 03/02/2023  
Date Received: 17/02/2023  
Date Tested: 24/02/2023  
Sampled By: Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

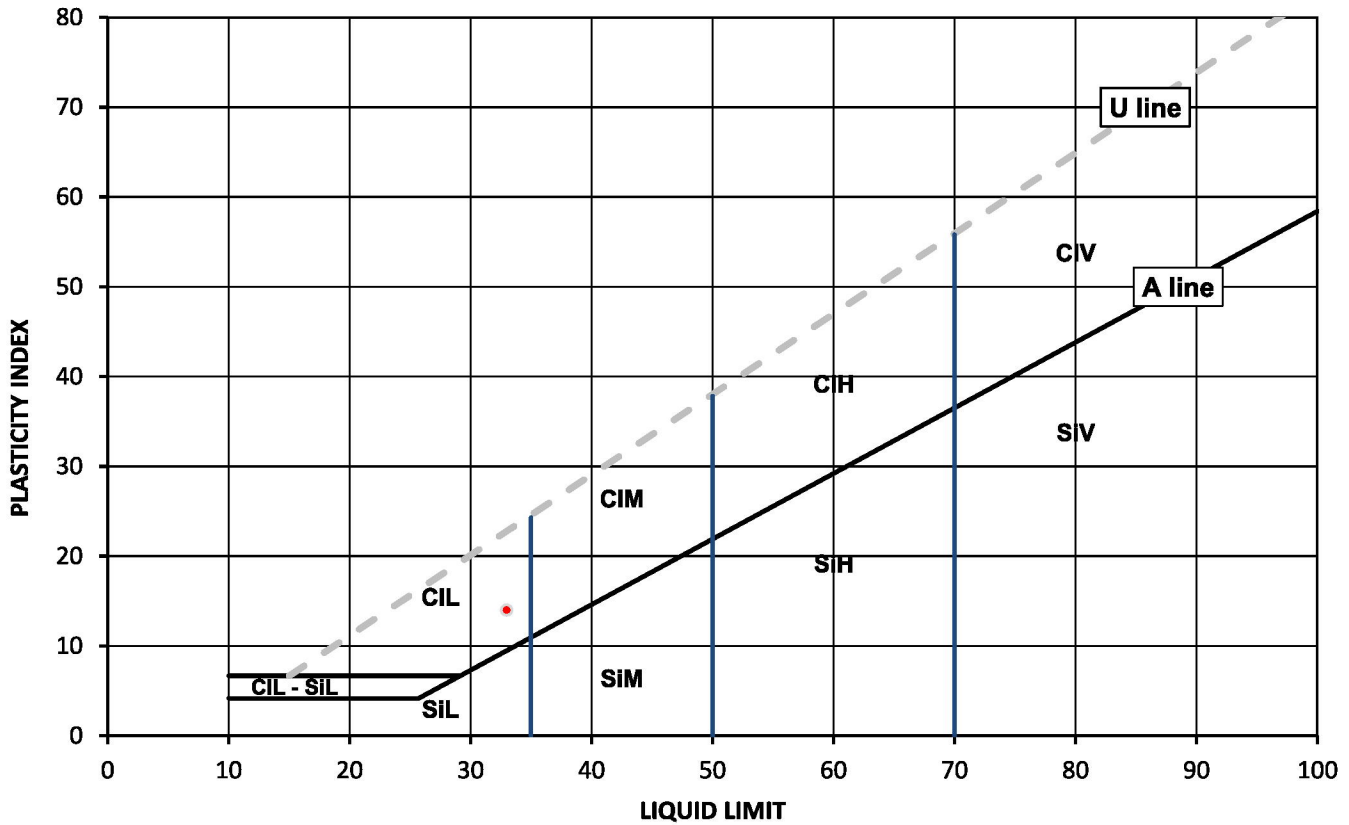
### Test Results:

Laboratory Reference: 2592821  
Hole No.: RO302  
Sample Reference: Not Given  
Sample Description: Grey very sandy CLAY

Depth Top [m]: 10.00  
Depth Base [m]: Not Given  
Sample Type: D

Sample Preparation: Tested in natural condition

As Received Water Content [ W ] %	Liquid Limit [ WL ] %	Plastic Limit [ Wp ] %	Plasticity Index [ Ip ] %	% Passing 425µm BS Test Sieve
14	33	19	14	100



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

Cl	Clay	Plasticity	Liquid Limit
Si	Silt	L	Low
		M	Medium
		H	High
		V	Very high
		O	Organic
			append to classification for organic material ( eg CIHO )
			below 35
			35 to 50
			50 to 70
			exceeding 70

Note: Water Content by BS 1377-2: 1990: Clause 3.2

Remarks:

Signed:



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# TEST CERTIFICATE

**DETERMINATION OF LIQUID AND PLASTIC LIMITS**  
Tested in Accordance with: BS 1377-2:1990: Clause 4.3 and 5

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

4041

Client: Hydrock Consultants Ltd  
Client Address: 2-4 Hawthorne Park, Holdenby Road,  
Spratton, Northamptonshire,  
NN6 8LD  
Contact: Nathan Thompson  
Site Address: Begbroke

Client Reference: 19114  
Job Number: 23-18737-1  
Date Sampled: 26/01/2023  
Date Received: 17/02/2023  
Date Tested: 24/02/2023  
Sampled By: Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

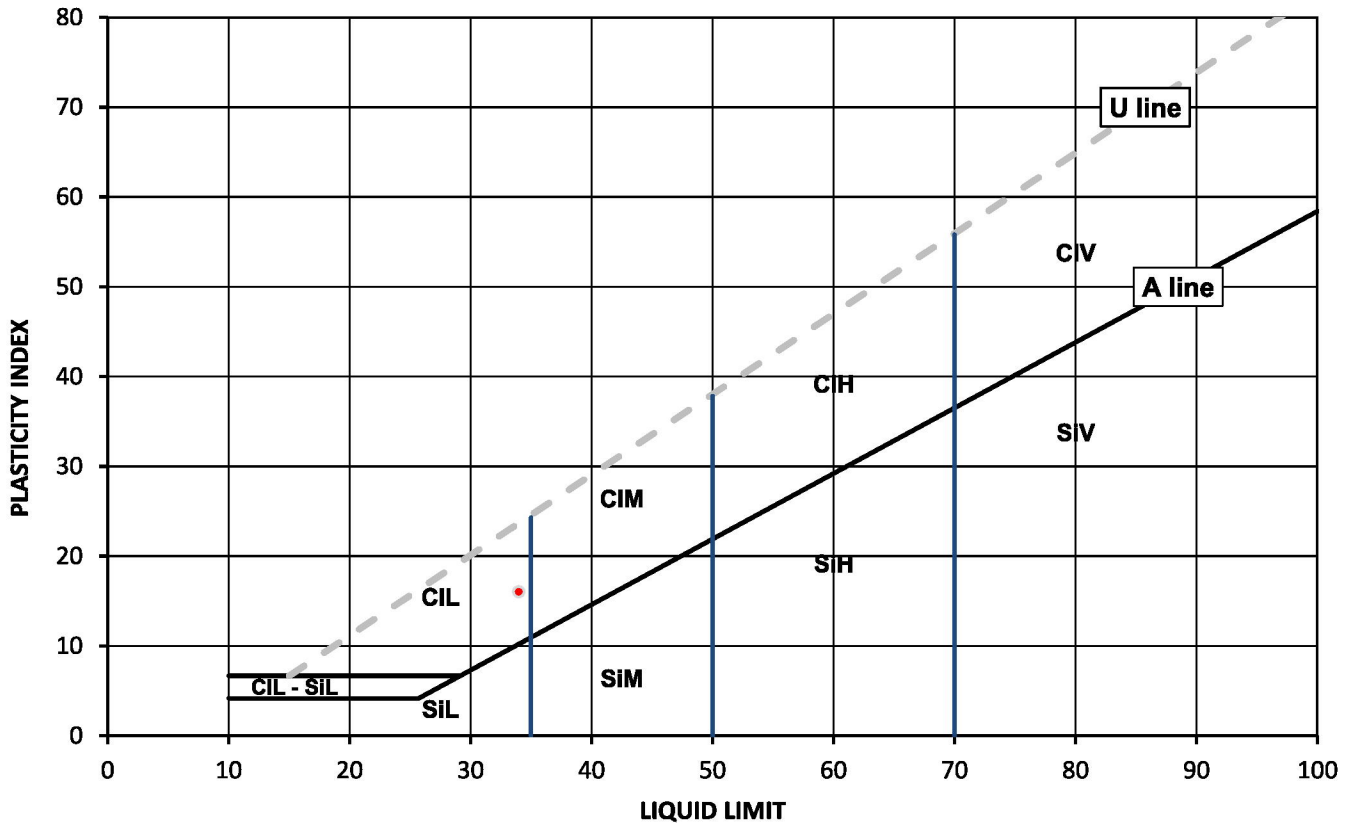
### Test Results:

Laboratory Reference: 2592822  
Hole No.: RO304  
Sample Reference: Not Given  
Sample Description: Brown slightly gravelly very sandy CLAY

Depth Top [m]: 1.50  
Depth Base [m]: Not Given  
Sample Type: D

Sample Preparation: Tested after >425um removed by hand

As Received Water Content [ W ] %	Liquid Limit [ WL ] %	Plastic Limit [ Wp ] %	Plasticity Index [ Ip ] %	% Passing 425µm BS Test Sieve
22	34	18	16	92



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

Cl	Clay	Plasticity	L	Low	Liquid Limit	below 35
Si	Silt		M	Medium		35 to 50
			H	High		50 to 70
			V	Very high		exceeding 70
			O	Organic		append to classification for organic material ( eg CIHO )

Note: Water Content by BS 1377-2: 1990: Clause 3.2

Remarks:

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# TEST CERTIFICATE

**DETERMINATION OF LIQUID AND PLASTIC LIMITS**  
Tested in Accordance with: BS 1377-2:1990: Clause 4.3 and 5

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

4041

Client: Hydrock Consultants Ltd  
Client Address: 2-4 Hawthorne Park, Holdenby Road,  
Spratton, Northamptonshire,  
NN6 8LD  
Contact: Nathan Thompson  
Site Address: Begbroke

Client Reference: 19114  
Job Number: 23-18737-1  
Date Sampled: 26/01/2023  
Date Received: 17/02/2023  
Date Tested: 24/02/2023  
Sampled By: Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

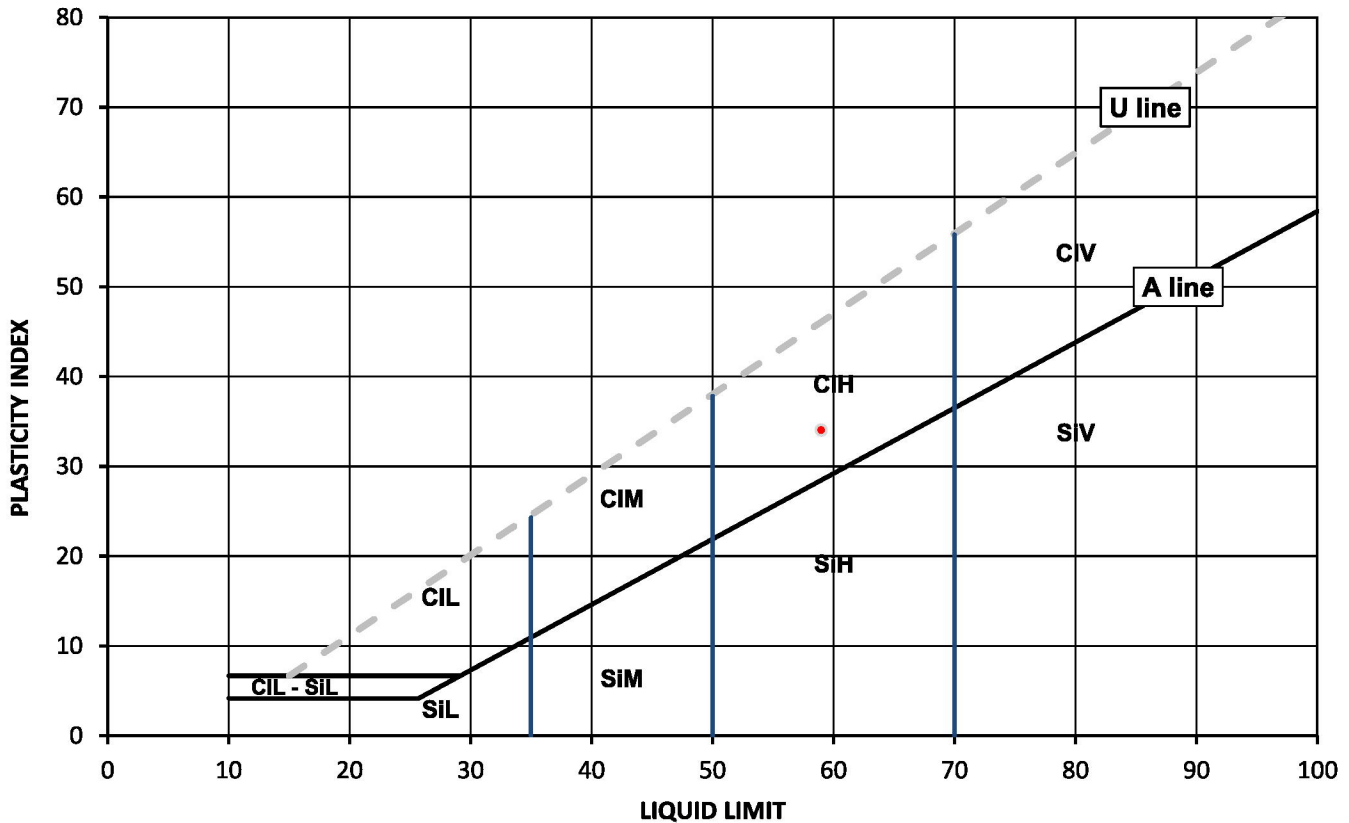
### Test Results:

Laboratory Reference: 2592824  
Hole No.: RO304  
Sample Reference: Not Given  
Sample Description: Brownish grey slightly gravelly slightly sandy CLAY

Depth Top [m]: 5.00  
Depth Base [m]: 5.45  
Sample Type: D

Sample Preparation: Tested after >425um removed by hand

As Received Water Content [ W ] %	Liquid Limit [ WL ] %	Plastic Limit [ Wp ] %	Plasticity Index [ Ip ] %	% Passing 425µm BS Test Sieve
28	59	25	34	99



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

Cl	Clay	Plasticity	L	Low	Liquid Limit	below 35
Si	Silt		M	Medium		35 to 50
			H	High		50 to 70
			V	Very high		exceeding 70
			O	Organic		append to classification for organic material ( eg CIHO )

Note: Water Content by BS 1377-2: 1990: Clause 3.2

Remarks:

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4041

Client: Hydrock Consultants Ltd  
 Client Address: 2-4 Hawthorne Park, Holdenby Road,  
 Spratton, Northamptonshire,  
 NN6 8LD

Contact: Nathan Thompson  
 Site Address: Begbroke

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

**SUMMARY REPORT****SUMMARY OF CLASSIFICATION TEST RESULTS**

Tested in Accordance with:

Water Content by BS 1377-2:1990: Clause 3.2 Atterberg by BS 1377-2: 1990:  
 Clause 4.3 (4 Point Test), Clause 4.4 (1 Point Test) and 5

i2 Analytical Ltd  
 Unit 8 Harrowden Road  
 Brackmills Industrial Estate  
 Northampton NN4 7EB



Environmental Science

Client Reference: 19114  
 Job Number: 23-18737-1  
 Date Sampled: 31/01 - 07/02/2023  
 Date Received: 17/02/2023  
 Date Tested: 24/02 - 28/02/2023  
 Sampled By: Not Given

**Test results**

Laboratory Reference	Hole No.	Sample				Description	Remarks	Water Content BS 1377-2 [ W ] %	Water Content BS EN ISO 17892-2 [ W ] %	Atterberg				Density			Total Porosity# %		
		Reference	Depth Top m	Depth Base m	Type					% Passing 425um	WL %	Wp %	Ip %	bulk Mg/m3	dry Mg/m3	PD Mg/m3			
2592788	TP315	Not Given	0.40	0.70	B	Yellowish brown sandy CLAY	Atterberg 4 Point	21		76	39	18	21						
2592789	TP315	Not Given	1.00	1.40	B	Greyish brown gravelly SAND		13											
2592790	TP316	Not Given	0.30	0.50	B	Yellowish brown slightly gravelly very sandy CLAY	Atterberg 4 Point	21		74	31	17	14						
2592791	TP316	Not Given	1.00	1.40	B	Greyish brown sandy GRAVEL		13											
2592792	TP317	Not Given	0.30	0.50	B	Greyish brown slightly gravelly sandy CLAY	Atterberg 4 Point	20		97	37	18	19						
2592793	RO301	Not Given	1.00	1.50	U	Yellowish brown very gravelly SAND		12											
2592794	RO305	Not Given	4.00	4.50	U	Brown very gravelly slightly sandy CLAY	Atterberg 4 Point	15		31	46	20	26						
2592795	RO305	Not Given	5.00	Not Given	D	Grey CLAY		26											
2592796	RO305	Not Given	6.20	Not Given	D	Brownish grey CLAY	Atterberg 4 Point	27		100	64	29	35						
2592797	RO305	Not Given	8.70	Not Given	D	Grey CLAY		24											

Note: # Non accredited; NP - Non plastic

Comments:

Signed:



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 Reporting Specialist  
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4041

Client: Hydrock Consultants Ltd  
 Client Address: 2-4 Hawthorne Park, Holdenby Road,  
 Spratton, Northamptonshire,  
 NN6 8LD

Contact: Nathan Thompson  
 Site Address: Begbroke

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

**SUMMARY REPORT****SUMMARY OF CLASSIFICATION TEST RESULTS**

Tested in Accordance with:

Water Content by BS 1377-2:1990: Clause 3.2 Atterberg by BS 1377-2: 1990:  
 Clause 4.3 (4 Point Test), Clause 4.4 (1 Point Test) and 5

i2 Analytical Ltd  
 Unit 8 Harrowden Road  
 Brackmills Industrial Estate  
 Northampton NN4 7EB



Environmental Science

Client Reference: 19114  
 Job Number: 23-18737-1  
 Date Sampled: 31/01 - 02/02/2023  
 Date Received: 17/02/2023  
 Date Tested: 24/02 - 27/02/2023  
 Sampled By: Not Given

**Test results**

Laboratory Reference	Hole No.	Sample				Description	Remarks	Water Content BS 1377-2 [ W ] %	Water Content BS EN ISO 17892-2 [ W ] %	Atterberg				Density			Total Porosity# %		
		Reference	Depth Top m	Depth Base m	Type					% Passing 425um	WL %	Wp %	Ip %	bulk Mg/m3	dry Mg/m3	PD Mg/m3			
2592798	RO305	Not Given	11.60	Not Given	D	Grey slightly gravelly very sandy CLAY	Atterberg 4 Point	24		97	26	13	13						
2592799	RO305	Not Given	12.70	Not Given	D	Grey very sandy CLAY	Atterberg 4 Point	20		100	26	18	8						
2592800	RO305	Not Given	16.50	Not Given	D	Grey CLAY	Atterberg 4 Point	25		100	60	26	34						
2592801	TP302	Not Given	0.80	1.00	B	Brown clayey SAND	Atterberg 4 Point	18		69	32	17	15						
2592802	TP303	Not Given	0.30	0.60	B	Brown sandy CLAY	Atterberg 4 Point	22		84	37	19	18						
2592803	TP303	Not Given	0.80	1.20	B	Brown gravelly SAND		7.6											
2592804	TP304	Not Given	0.60	0.80	B	Brown slightly gravelly clayey SAND	Atterberg 4 Point	18		97	25	15	10						
2592805	TP305	Not Given	0.40	0.60	B	Brown gravelly sandy CLAY		18											
2592806	TP305	Not Given	1.00	1.40	B	Yellowish brown gravelly SAND		13											
2592807	TP306	Not Given	0.60	0.80	B	Yellowish brown slightly gravelly sandy CLAY	Atterberg 4 Point	20		79	43	20	23						

Note: # Non accredited; NP - Non plastic

Comments:

Signed:



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# SUMMARY REPORT

## SUMMARY OF CLASSIFICATION TEST RESULTS

Tested in Accordance with:

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

4041

Client: Hydrock Consultants Ltd  
Client Address: 2-4 Hawthorne Park, Holdenby Road,  
Spratton, Northamptonshire,  
NN6 8LD

Water Content by BS 1377-2:1990: Clause 3.2 Atterberg by BS 1377-2: 1990:  
Clause 4.3 (4 Point Test), Clause 4.4 (1 Point Test) and 5

Client Reference: 19114  
Job Number: 23-18737-1  
Date Sampled: 06/02 - 07/02/2023  
Date Received: 17/02/2023  
Date Tested: 27/02/2023  
Sampled By: Not Given

Contact: Nathan Thompson  
Site Address: Begbroke

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test results

Laboratory Reference	Hole No.	Sample				Description	Remarks	Water Content BS 1377-2 [ W ] %	Water Content BS EN ISO 17892-2 [ W ] %	Atterberg				Density			Total Porosity# %
		Reference	Depth Top m	Depth Base m	Type					% Passing 425um	WL %	Wp %	Ip %	bulk Mg/m3	dry Mg/m3	PD Mg/m3	
2592808	TP307	Not Given	0.30	0.50	B	Greyish brown sandy CLAY	Atterberg 4 Point	28		94	47	17	30				
2592809	TP307	Not Given	1.20	1.50	B	Yellowish brown very gravelly SAND		13									
2592810	TP307	Not Given	2.20	2.40	B	Greyish gravelly sandy CLAY	Atterberg 4 Point	14		62	28	16	12				
2592811	TP308	Not Given	1.30	1.70	B	Greyish brown slightly gravelly sandy CLAY	Atterberg 4 Point	18		83	36	19	17				
2592812	TP309	Not Given	0.60	0.70	B	Yellowish brown gravelly SAND		12									
2592813	TP309	Not Given	1.90	2.00	B	Greyish brown slightly gravelly very sandy CLAY	Atterberg 4 Point	17		86	34	22	12				
2592814	TP312	Not Given	0.30	0.60	B	Brown slightly gravelly sandy CLAY	Atterberg 4 Point	24		97	40	21	19				
2592815	TP312	Not Given	1.00	1.40	B	Brown very sandy GRAVEL		11									
2592816	TP312	Not Given	2.00	2.50	B	Greyish brown very sandy CLAY	Atterberg 4 Point	24		100	32	21	11				
2592817	RO301	Not Given	4.00	4.50	U	Greyish brown slightly gravelly slightly silty CLAY		25									

Note: # Non accredited; NP - Non plastic

Comments:

Signed:



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Reporting Specialist  
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# SUMMARY REPORT

## SUMMARY OF CLASSIFICATION TEST RESULTS

Tested in Accordance with:

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

4041

Client: Hydrock Consultants Ltd  
Client Address: 2-4 Hawthorne Park, Holdenby Road,  
Spratton, Northamptonshire,  
NN6 8LD

Water Content by BS 1377-2:1990: Clause 3.2 Atterberg by BS 1377-2: 1990:  
Clause 4.3 (4 Point Test), Clause 4.4 (1 Point Test) and 5

Client Reference: 19114  
Job Number: 23-18737-1  
Date Sampled: 26/01 - 16/02/2023  
Date Received: 17/02/2023  
Date Tested: 24/02/2023  
Sampled By: Not Given

Contact: Nathan Thompson  
Site Address: Begbroke

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test results

Laboratory Reference	Hole No.	Sample				Description	Remarks	Water Content BS 1377-2 [ W ] %	Water Content BS EN ISO 17892-2 [ W ] %	Atterberg				Density			Total Porosity# %		
		Reference	Depth Top m	Depth Base m	Type					% Passing 425um	WL %	Wp %	Ip %	bulk Mg/m3	dry Mg/m3	PD Mg/m3			
2592818	RO301	Not Given	8.00	8.00	D	Grey slightly gravelly sandy silty CLAY	Atterberg 4 Point	23		99	39	26	13						
2592819	RO301	Not Given	11.90	Not Given	D	Grey CLAY		19											
2592820	RO302	Not Given	3.90	Not Given	D	Dark brown very gravelly CLAY		18											
2592821	RO302	Not Given	10.00	Not Given	D	Grey very sandy CLAY	Atterberg 4 Point	14		100	33	19	14						
2592822	RO304	Not Given	1.50	Not Given	D	Brown slightly gravelly very sandy CLAY	Atterberg 4 Point	22		92	34	18	16						
2592823	RO304	Not Given	4.00	4.45	D	Grey CLAY		27											
2592824	RO304	Not Given	5.00	5.45	D	Brownish grey slightly gravelly slightly sandy CLAY	Atterberg 4 Point	28		99	59	25	34						
2592825	RO301	Not Given	5.00	5.13	C	Grey LIMESTONE		2.7											

Note: # Non accredited; NP - Non plastic

Comments:

Signed:



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# SUMMARY REPORT

## DETERMINATION OF WATER CONTENT

Tested in Accordance with: BS 1377-2: 1990: Clause 3.2

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

4041

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Client Address: 2-4 Hawthorne Park, Holdenby Road,  
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NN6 8LD

Contact: Nathan Thompson  
Site Address: Begbroke

Client Reference: 19114  
Job Number: 23-18737-1  
Date Sampled: 31/01 - 07/02/2023  
Date Received: 17/02/2023  
Date Tested: 24/02 - 28/02/2023  
Sampled By: Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test results

Laboratory Reference	Hole No.	Sample				Description	Remarks	WC %	Sample preparation / Oven temperature at the time of testing			
		Reference	Depth Top m	Depth Base m	Type							
2592788	TP315	Not Given	0.40	0.70	B	Yellowish brown sandy CLAY		21	Sample was quartered, oven dried at 106.1 °C			
2592789	TP315	Not Given	1.00	1.40	B	Greyish brown gravelly SAND		13	Sample was quartered, oven dried at 109 °C			
2592790	TP316	Not Given	0.30	0.50	B	Yellowish brown slightly gravelly very sandy CLAY		21	Sample was quartered, oven dried at 106 °C			
2592791	TP316	Not Given	1.00	1.40	B	Greyish brown sandy GRAVEL		13	Sample was quartered, oven dried at 109 °C			
2592792	TP317	Not Given	0.30	0.50	B	Greyish brown slightly gravelly sandy CLAY		20	Sample was quartered, oven dried at 106.1 °C			
2592793	RO301	Not Given	1.00	1.50	U	Yellowish brown very gravelly SAND		12	Sample was quartered, oven dried at 106.1 °C			
2592794	RO305	Not Given	4.00	4.50	U	Brown very gravelly slightly sandy CLAY		15	Sample was quartered, oven dried at 106.1 °C			
2592795	RO305	Not Given	5.00	Not Given	D	Grey CLAY		26	Sample was quartered, oven dried at 108.6 °C			
2592796	RO305	Not Given	6.20	Not Given	D	Brownish grey CLAY		27	Sample was quartered, oven dried at 108.6 °C			
2592797	RO305	Not Given	8.70	Not Given	D	Grey CLAY		24	Sample was quartered, oven dried at 108.6 °C			

Comments:

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Signed:



Katarzyna Koziel  
Reporting Specialist  
for and on behalf of i2 Analytical Ltd



# SUMMARY REPORT

## DETERMINATION OF WATER CONTENT

Tested in Accordance with: BS 1377-2: 1990: Clause 3.2

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

4041

Client: Hydrock Consultants Ltd  
Client Address: 2-4 Hawthorne Park, Holdenby Road,  
Spratton, Northamptonshire,  
NN6 8LD

Contact: Nathan Thompson  
Site Address: Begbroke

Client Reference: 19114  
Job Number: 23-18737-1  
Date Sampled: 31/01 - 02/02/2023  
Date Received: 17/02/2023  
Date Tested: 24/02 - 27/02/2023  
Sampled By: Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test results

Laboratory Reference	Hole No.	Sample				Description	Remarks	WC %	Sample preparation / Oven temperature at the time of testing			
		Reference	Depth Top m	Depth Base m	Type							
2592798	RO305	Not Given	11.60	Not Given	D	Grey slightly gravelly very sandy CLAY		24	Sample was quartered, oven dried at 108.6 °C			
2592799	RO305	Not Given	12.70	Not Given	D	Grey very sandy CLAY		20	Sample was quartered, oven dried at 108.6 °C			
2592800	RO305	Not Given	16.50	Not Given	D	Grey CLAY		25	Sample was quartered, oven dried at 108.6 °C			
2592801	TP302	Not Given	0.80	1.00	B	Brown clayey SAND		18	Sample was quartered, oven dried at 106 °C			
2592802	TP303	Not Given	0.30	0.60	B	Brown sandy CLAY		22	Sample was quartered, oven dried at 106 °C			
2592803	TP303	Not Given	0.80	1.20	B	Brown gravelly SAND		7.6	Sample was quartered, oven dried at 109 °C			
2592804	TP304	Not Given	0.60	0.80	B	Brown slightly gravelly clayey SAND		18	Sample was quartered, oven dried at 106 °C			
2592805	TP305	Not Given	0.40	0.60	B	Brown gravelly sandy CLAY		18	Sample was quartered, oven dried at 106.1 °C			
2592806	TP305	Not Given	1.00	1.40	B	Yellowish brown gravelly SAND		13	Sample was quartered, oven dried at 106.8 °C			
2592807	TP306	Not Given	0.60	0.80	B	Yellowish brown slightly gravelly sandy CLAY		20	Sample was quartered, oven dried at 109 °C			

Comments:

Signed:



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# SUMMARY REPORT

## DETERMINATION OF WATER CONTENT

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NN6 8LD

Contact: Nathan Thompson  
Site Address: Begbroke

Client Reference: 19114  
Job Number: 23-18737-1  
Date Sampled: 06/02 - 07/02/2023  
Date Received: 17/02/2023  
Date Tested: 27/02/2023  
Sampled By: Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test results

Laboratory Reference	Hole No.	Sample				Description	Remarks	WC %	Sample preparation / Oven temperature at the time of testing			
		Reference	Depth Top m	Depth Base m	Type							
2592808	TP307	Not Given	0.30	0.50	B	Greyish brown sandy CLAY		28	Sample was quartered, oven dried at 106 °C			
2592809	TP307	Not Given	1.20	1.50	B	Yellowish brown very gravelly SAND		13	Sample was quartered, oven dried at 109 °C			
2592810	TP307	Not Given	2.20	2.40	B	Greyish gravelly sandy CLAY		14	Sample was quartered, oven dried at 106 °C			
2592811	TP308	Not Given	1.30	1.70	B	Greyish brown slightly gravelly sandy CLAY		18	Sample was quartered, oven dried at 106 °C			
2592812	TP309	Not Given	0.60	0.70	B	Yellowish brown gravelly SAND		12	Sample was quartered, oven dried at 109 °C			
2592813	TP309	Not Given	1.90	2.00	B	Greyish brown slightly gravelly very sandy CLAY		17	Sample was quartered, oven dried at 109 °C			
2592814	TP312	Not Given	0.30	0.60	B	Brown slightly gravelly sandy CLAY		24	Sample was quartered, oven dried at 106 °C			
2592815	TP312	Not Given	1.00	1.40	B	Brown very sandy GRAVEL		11	Sample was quartered, oven dried at 108.7 °C			
2592816	TP312	Not Given	2.00	2.50	B	Greyish brown very sandy CLAY		24	Sample was quartered, oven dried at 109 °C			
2592817	RO301	Not Given	4.00	4.50	U	Greyish brown slightly gravelly slightly silty CLAY		25	Sample was quartered, oven dried at 106.1 °C			

Comments:

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# SUMMARY REPORT

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Contact: Nathan Thompson  
Site Address: Begbroke

Client Reference: 19114  
Job Number: 23-18737-1  
Date Sampled: 26/01 - 16/02/2023  
Date Received: 17/02/2023  
Date Tested: 24/02/2023  
Sampled By: Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test results

Laboratory Reference	Hole No.	Sample				Description	Remarks	WC %	Sample preparation / Oven temperature at the time of testing			
		Reference	Depth Top m	Depth Base m	Type							
2592818	RO301	Not Given	8.00	8.00	D	Grey slightly gravelly sandy silty CLAY		23	Sample was quartered, oven dried at 108.6 °C			
2592819	RO301	Not Given	11.90	Not Given	D	Grey CLAY		19	Sample was quartered, oven dried at 108.6 °C			
2592820	RO302	Not Given	3.90	Not Given	D	Dark brown very gravelly CLAY		18	Sample was quartered, oven dried at 108.6 °C			
2592821	RO302	Not Given	10.00	Not Given	D	Grey very sandy CLAY		14	Sample was quartered, oven dried at 108.6 °C			
2592822	RO304	Not Given	1.50	Not Given	D	Brown slightly gravelly very sandy CLAY		22	Sample was quartered, oven dried at 108.6 °C			
2592823	RO304	Not Given	4.00	4.45	D	Grey CLAY		27	Sample was quartered, oven dried at 108.6 °C			
2592824	RO304	Not Given	5.00	5.45	D	Brownish grey slightly gravelly slightly sandy CLAY		28	Sample was quartered, oven dried at 108.6 °C			
2592825	RO301	Not Given	5.00	5.13	C	Grey LIMESTONE		2.7	Sample was quartered, oven dried at 109 °C			

Comments:

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# TEST CERTIFICATE

## DETERMINATION OF PARTICLE SIZE DISTRIBUTION

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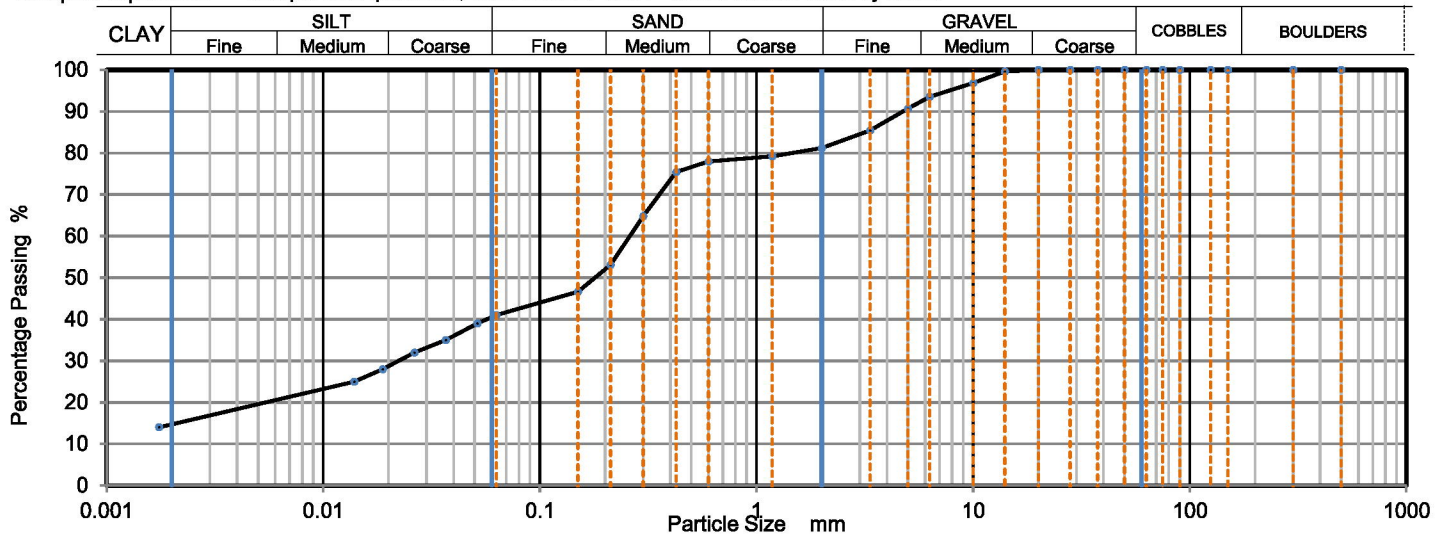
Client Reference: 19114  
Job Number: 23-18737-1  
Date Sampled: 02/02/2023  
Date Received: 17/02/2023  
Date Tested: 27/02/2023  
Sampled By: Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test Results:

Laboratory Reference: 2592788  
Hole No.: TP315  
Sample Reference: Not Given  
Sample Description: Yellowish brown sandy CLAY  
Sample Preparation: Sample was quartered, oven dried at 106.1 °C and broken down by hand.

Depth Top [m]: 0.40  
Depth Base [m]: 0.70  
Sample Type: B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
500	100	0.0630	41
300	100	0.0514	39
150	100	0.0368	35
125	100	0.0263	32
90	100	0.0188	28
75	100	0.0139	25
63	100	0.0017	14
50	100		
37.5	100		
28	100		
20	100		
14	100		
10	97		
6.3	94		
5	91		
3.35	85	Particle density (assumed)	
2	81	2.65 Mg/m3	
1.18	79		
0.6	78		
0.425	75		
0.3	65		
0.212	53		
0.15	47		
0.063	41		

Sample Proportions	% dry mass
Very coarse	0
Gravel	19
Sand	41
Silt	25
Clay	15

Grading Analysis	
D100	mm 20
D60	mm 0.26
D30	mm 0.0224
D10	mm
Uniformity Coefficient	> 150
Curvature Coefficient	

Uniformity Coefficient calculated in accordance with BS EN ISO 14688-2:2018

Note: Tested in Accordance with BS1377:Part 2:1990, clauses 9.2 and 9.5

### Remarks:

### Signed:

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Northampton NN4 7EB



Environmental Science

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Client: Hydrock Consultants Ltd  
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NN6 8LD  
Contact: Nathan Thompson  
Site Address: Begbroke

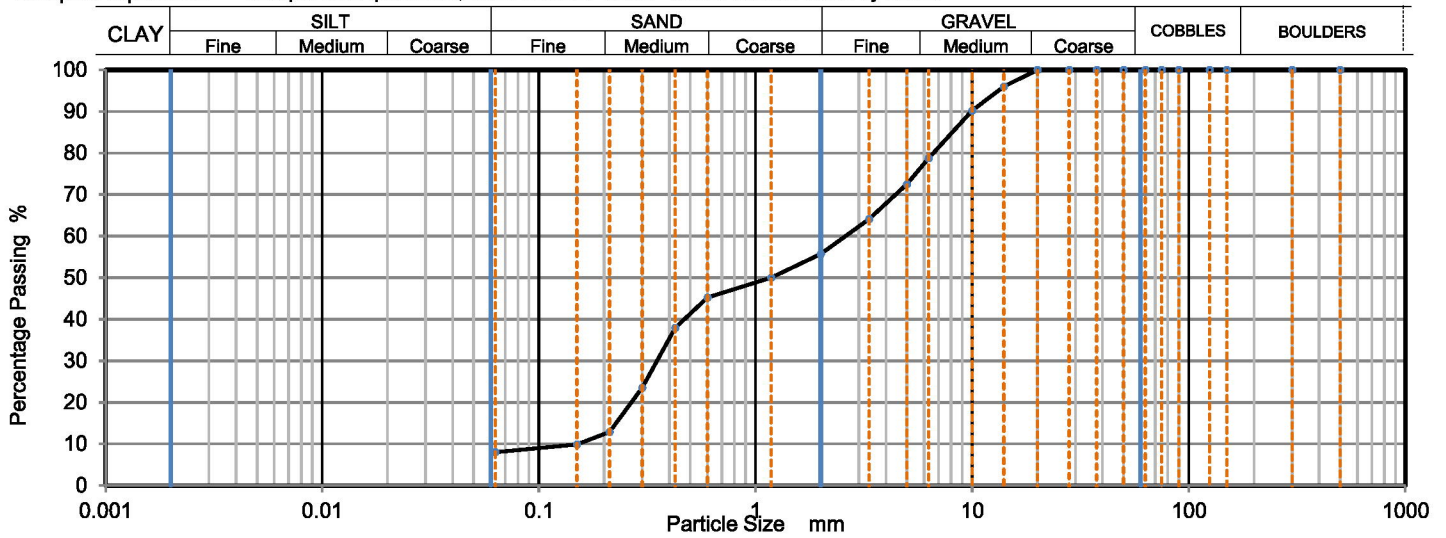
Client Reference: 19114  
Job Number: 23-18737-1  
Date Sampled: 02/02/2023  
Date Received: 17/02/2023  
Date Tested: 27/02/2023  
Sampled By: Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test Results:

Laboratory Reference: 2592789  
Hole No.: TP315  
Sample Reference: Not Given  
Sample Description: Greyish brown gravelly SAND  
Sample Preparation: Sample was quartered, oven dried at 109.0 °C and broken down by hand.

Depth Top [m]: 1.00  
Depth Base [m]: 1.40  
Sample Type: B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
500	100		
300	100		
150	100		
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	100		
14	96		
10	90		
6.3	79		
5	73		
3.35	64		
2	56		
1.18	50		
0.6	45		
0.425	38		
0.3	24		
0.212	13		
0.15	10		
0.063	9		

Sample Proportions	% dry mass
Very coarse	0
Gravel	44
Sand	47
Fines <0.063mm	8

Grading Analysis		
D100	mm	20
D60	mm	2.61
D30	mm	0.351
D10	mm	0.152
Uniformity Coefficient		17
Curvature Coefficient		0.31

Uniformity Coefficient calculated in accordance with BS EN ISO 14688-2:2018

Note: Tested in Accordance with BS1377:Part 2:1990, clause 9.2

### Remarks:

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# TEST CERTIFICATE

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i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

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Client Address: 2-4 Hawthorne Park, Holdenby Road,  
Spratton, Northamptonshire,  
NN6 8LD  
Contact: Nathan Thompson  
Site Address: Begbroke

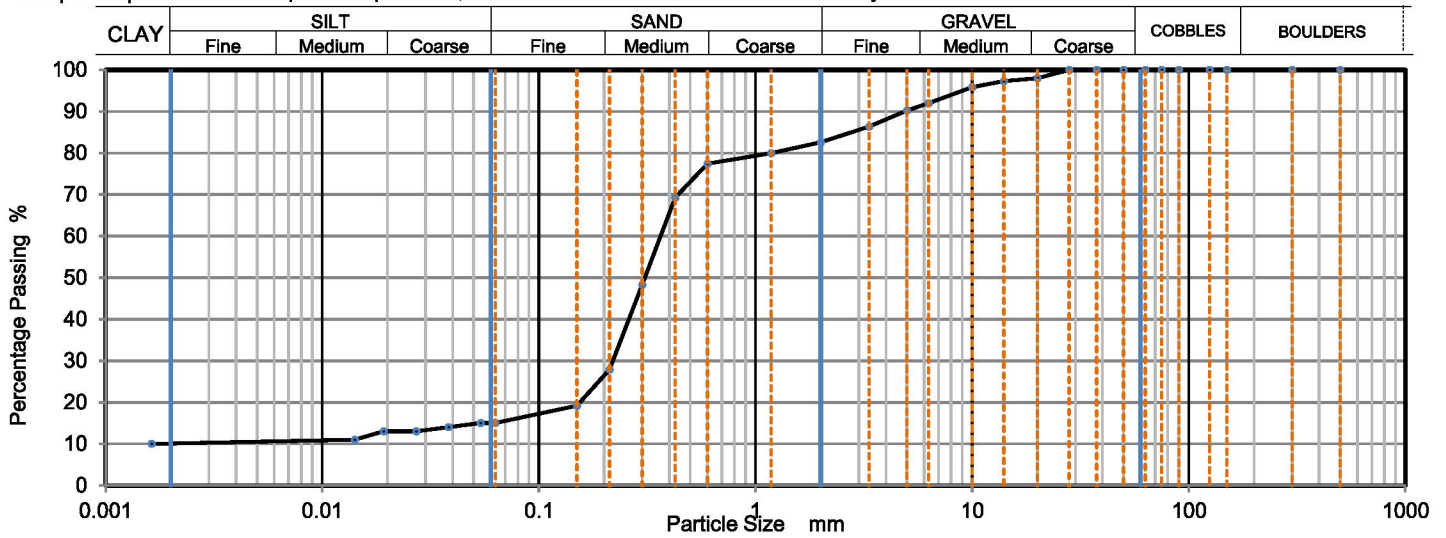
Client Reference: 19114  
Job Number: 23-18737-1  
Date Sampled: 31/01/2023  
Date Received: 17/02/2023  
Date Tested: 27/02/2023  
Sampled By: Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test Results:

Laboratory Reference: 2592801  
Hole No.: TP302  
Sample Reference: Not Given  
Sample Description: Brown clayey SAND  
Sample Preparation: Sample was quartered, oven dried at 106.0 °C and broken down by hand.

Depth Top [m]: 0.80  
Depth Base [m]: 1.00  
Sample Type: B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
500	100	0.0630	15
300	100	0.0538	15
150	100	0.0382	14
125	100	0.0272	13
90	100	0.0192	13
75	100	0.0141	11
63	100	0.0016	10
50	100		
37.5	100		
28	100		
20	98		
14	97		
10	96		
6.3	92		
5	90		
3.35	86		
2	83	Particle density (assumed) 2.65 Mg/m3	
1.18	80		
0.6	77		
0.425	69		
0.3	48		
0.212	28		
0.15	19		
0.063	15		

Sample Proportions	% dry mass
Very coarse	0
Gravel	17
Sand	67
Silt	6
Clay	10

Grading Analysis		
D100	mm	28
D60	mm	0.364
D30	mm	0.22
D10	mm	0.00246
Uniformity Coefficient		150
Curvature Coefficient		54

Uniformity Coefficient calculated in accordance with BS EN ISO 14688-2:2018

Note: Tested in Accordance with BS1377:Part 2:1990, clauses 9.2 and 9.5

### Remarks:

### Signed:

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Reporting Specialist  
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**TEST CERTIFICATE****DETERMINATION OF PARTICLE SIZE DISTRIBUTION**

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i2 Analytical Ltd  
Unit 8 Harrowden Road  
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Northampton NN4 7EB

Environmental Science

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 Client Address: 2-4 Hawthorne Park, Holdenby Road,  
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 Contact: Nathan Thompson  
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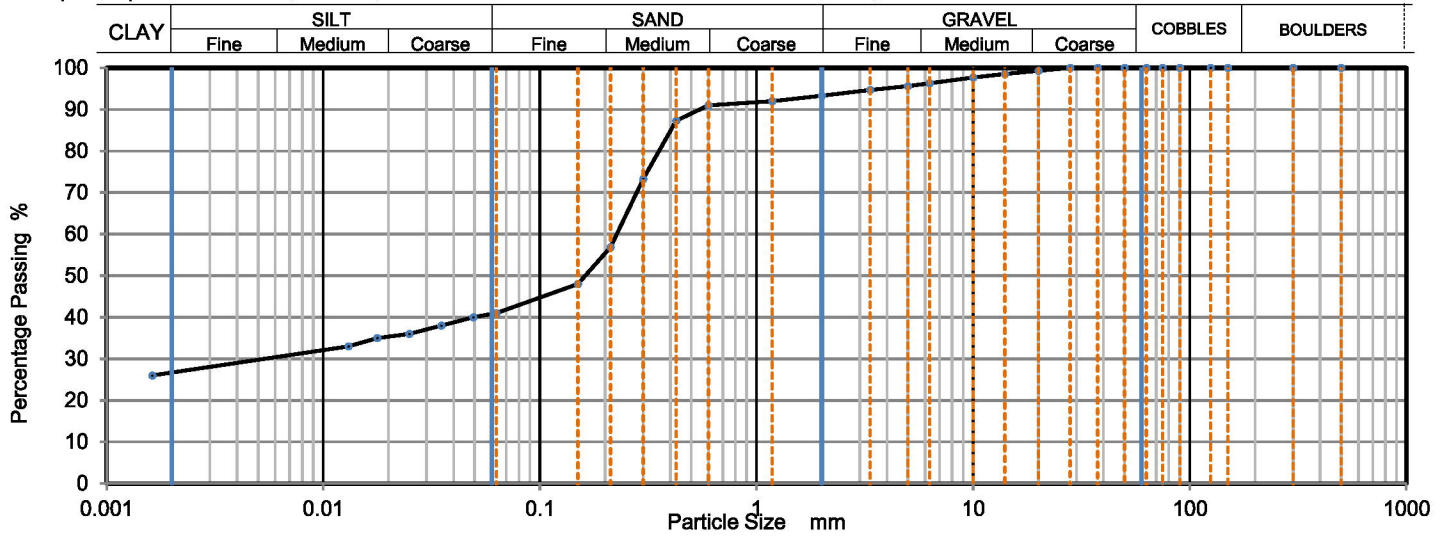
Client Reference: 19114  
 Job Number: 23-18737-1  
 Date Sampled: 02/02/2023  
 Date Received: 17/02/2023  
 Date Tested: 27/02/2023  
 Sampled By: Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

**Test Results:**

Laboratory Reference: 2592802  
 Hole No.: TP303  
 Sample Reference: Not Given  
 Sample Description: Brown sandy CLAY  
 Sample Preparation: Sample was quartered, oven dried at 106.0 °C and broken down by hand.

Depth Top [m]: 0.30  
 Depth Base [m]: 0.60  
 Sample Type: B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
500	100	0.0630	41
300	100	0.0493	40
150	100	0.0351	38
125	100	0.0250	36
90	100	0.0178	35
75	100	0.0131	33
63	100	0.0016	26
50	100		
37.5	100		
28	100		
20	99		
14	99		
10	98		
6.3	96		
5	96		
3.35	95		
2	93	Particle density (assumed) 2.65 Mg/m <sup>3</sup>	
1.18	92		
0.6	91		
0.425	87		
0.3	73		
0.212	57		
0.15	48		
0.063	41		

Sample Proportions	% dry mass
Very coarse	0
Gravel	7
Sand	52
Silt	14
Clay	27

Grading Analysis		
D100	mm	28
D60	mm	0.226
D30	mm	0.005
D10	mm	
Uniformity Coefficient		> 140
Curvature Coefficient		

Uniformity Coefficient calculated in accordance with BS EN ISO 14688-2:2018

Note: Tested in Accordance with BS1377:Part 2:1990, clauses 9.2 and 9.5

**Remarks:****Signed:**

Katarzyna Koziel  
 Reporting Specialist  
 for and on behalf of i2 Analytical Ltd

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# TEST CERTIFICATE

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Northampton NN4 7EB



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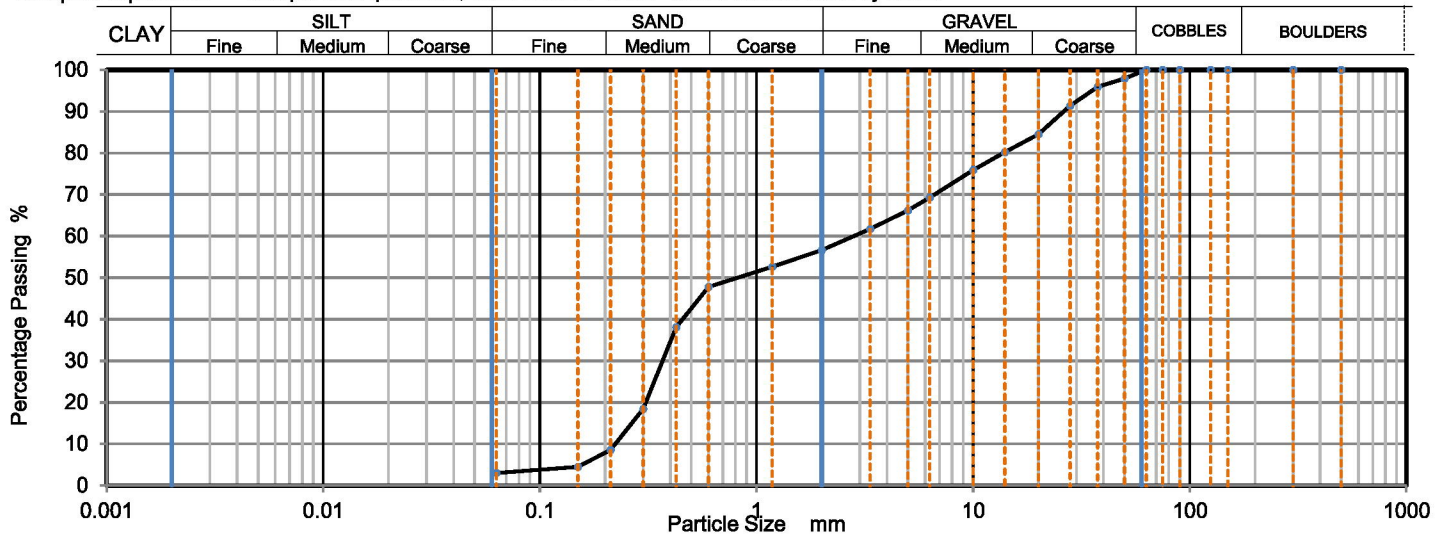
Client Reference: 19114  
Job Number: 23-18737-1  
Date Sampled: 02/02/2023  
Date Received: 17/02/2023  
Date Tested: 27/02/2023  
Sampled By: Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test Results:

Laboratory Reference: 2592803  
Hole No.: TP303  
Sample Reference: Not Given  
Sample Description: Brown gravelly SAND  
Sample Preparation: Sample was quartered, oven dried at 109.0 °C and broken down by hand.

Depth Top [m]: 0.80  
Depth Base [m]: 1.20  
Sample Type: B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
500	100		
300	100		
150	100		
125	100		
90	100		
75	100		
63	100		
50	98		
37.5	96		
28	91		
20	85		
14	80		
10	76		
6.3	69		
5	66		
3.35	62		
2	57		
1.18	53		
0.6	48		
0.425	38		
0.3	18		
0.212	9		
0.15	5		
0.063	4		

Sample Proportions	% dry mass
Very coarse	0
Gravel	43
Sand	53
Fines <0.063mm	4

Grading Analysis		
D100	mm	63
D60	mm	2.83
D30	mm	0.368
D10	mm	0.222
Uniformity Coefficient		13
Curvature Coefficient		0.22

Uniformity Coefficient calculated in accordance with BS EN ISO 14688-2:2018

Note: Tested in Accordance with BS1377:Part 2:1990, clause 9.2

### Remarks:

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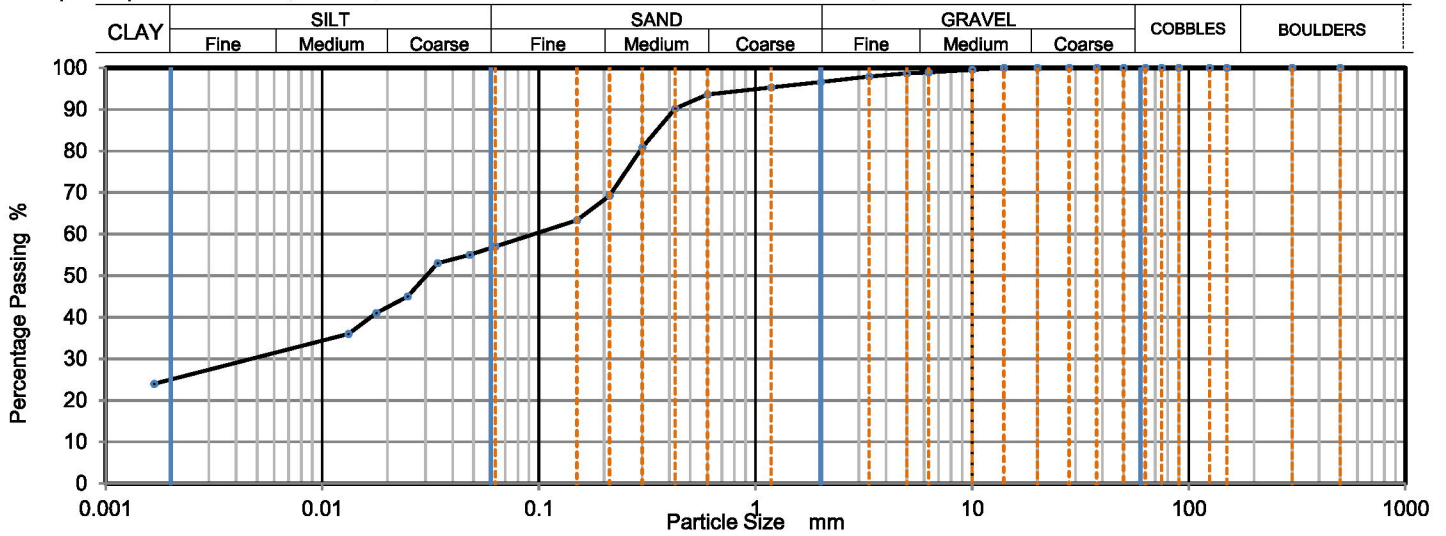
Client Reference: 19114  
Job Number: 23-18737-1  
Date Sampled: 06/02/2023  
Date Received: 17/02/2023  
Date Tested: 27/02/2023  
Sampled By: Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test Results:

Laboratory Reference: 2592808  
Hole No.: TP307  
Sample Reference: Not Given  
Sample Description: Greyish brown sandy CLAY  
Sample Preparation: Sample was quartered, oven dried at 106.0 °C and broken down by hand.

Depth Top [m]: 0.30  
Depth Base [m]: 0.50  
Sample Type: B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
500	100	0.0630	57
300	100	0.0480	55
150	100	0.0342	53
125	100	0.0248	45
90	100	0.0178	41
75	100	0.0132	36
63	100	0.0017	24
50	100		
37.5	100		
28	100		
20	100		
14	100		
10	100		
6.3	99		
5	99		
3.35	98		
2	97	Particle density (assumed) 2.65 Mg/m3	
1.18	95		
0.6	94		
0.425	90		
0.3	81		
0.212	69		
0.15	63		
0.063	57		

Sample Proportions	% dry mass
Very coarse	0
Gravel	3
Sand	39
Silt	33
Clay	25

Grading Analysis		
D100	mm	14
D60	mm	0.0931
D30	mm	0.00501
D10	mm	
Uniformity Coefficient		> 56
Curvature Coefficient		

Uniformity Coefficient calculated in accordance with BS EN ISO 14688-2:2018

Note: Tested in Accordance with BS1377:Part 2:1990, clauses 9.2 and 9.5

### Remarks:

### Signed:

Katarzyna Koziel  
Reporting Specialist  
for and on behalf of i2 Analytical Ltd

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4041

Client: Hydrock Consultants Ltd  
Client Address: 2-4 Hawthorne Park, Holdenby Road,  
Spratton, Northamptonshire,  
NN6 8LD  
Contact: Nathan Thompson  
Site Address: Begbroke

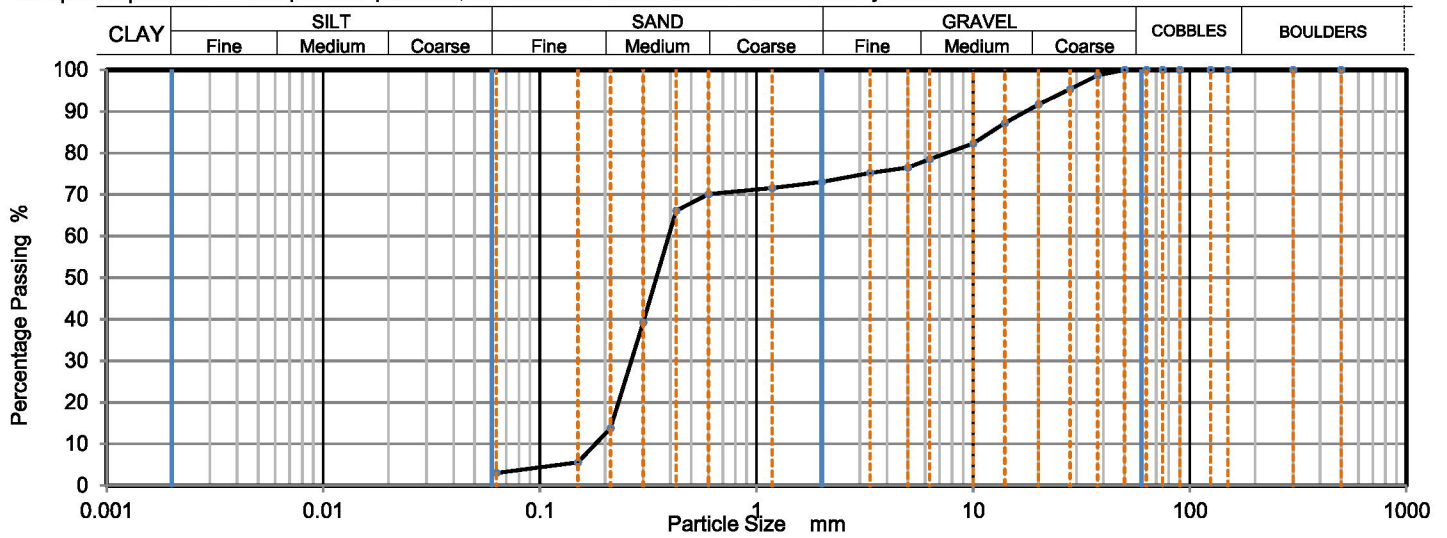
Client Reference: 19114  
Job Number: 23-18737-1  
Date Sampled: 06/02/2023  
Date Received: 17/02/2023  
Date Tested: 27/02/2023  
Sampled By: Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test Results:

Laboratory Reference: 2592809  
Hole No.: TP307  
Sample Reference: Not Given  
Sample Description: Yellowish brown very gravelly SAND  
Sample Preparation: Sample was quartered, oven dried at 109.0 °C and broken down by hand.

Depth Top [m]: 1.20  
Depth Base [m]: 1.50  
Sample Type: B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
500	100		
300	100		
150	100		
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	99		
28	95		
20	92		
14	87		
10	82		
6.3	79		
5	77		
3.35	75		
2	73		
1.18	72		
0.6	70		
0.425	66		
0.3	39		
0.212	14		
0.15	6		
0.063	4		

Sample Proportions	% dry mass
Very coarse	0
Gravel	27
Sand	69
Fines <0.063mm	4

Grading Analysis		
D100	mm	50
D60	mm	0.393
D30	mm	0.264
D10	mm	0.18
Uniformity Coefficient		2.2
Curvature Coefficient		0.99

Uniformity Coefficient calculated in accordance with BS EN ISO 14688-2:2018

Note: Tested in Accordance with BS1377:Part 2:1990, clause 9.2

### Remarks:

### Signed:

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Reporting Specialist  
for and on behalf of i2 Analytical Ltd

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4041

# TEST CERTIFICATE

## DETERMINATION OF PARTICLE SIZE DISTRIBUTION

Tested in Accordance with: BS 1377-2: 1990

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

Client: Hydrock Consultants Ltd  
Client Address: 2-4 Hawthorne Park, Holdenby Road,  
Spratton, Northamptonshire,  
NN6 8LD  
Contact: Nathan Thompson  
Site Address: Begbroke

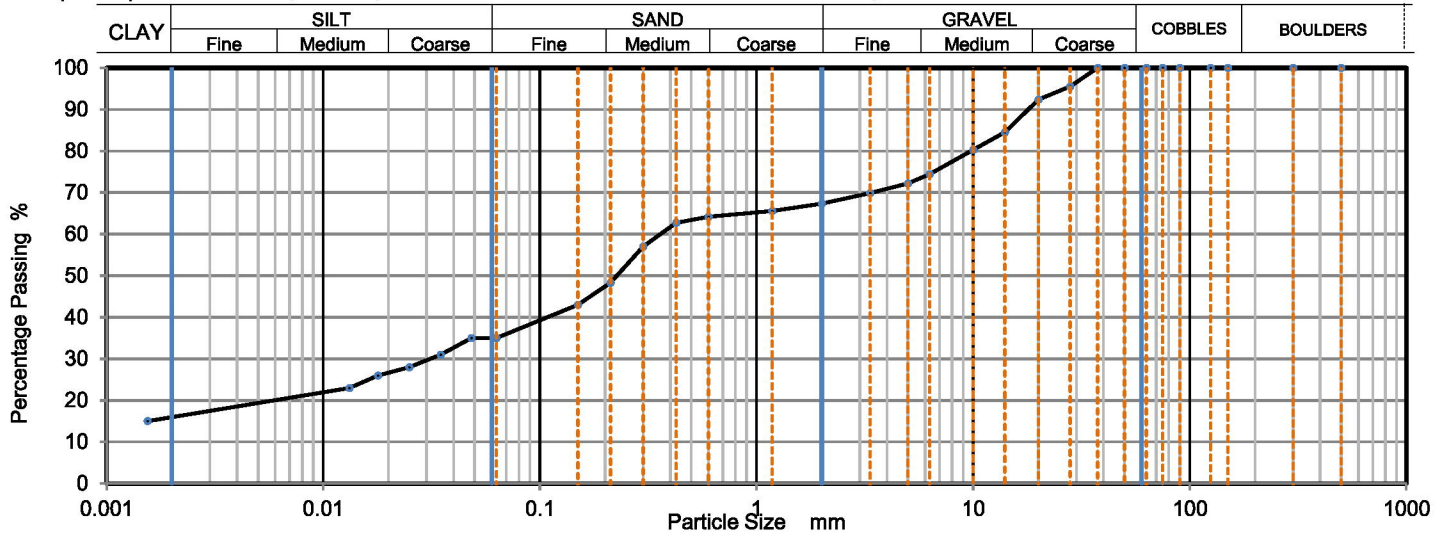
Client Reference: 19114  
Job Number: 23-18737-1  
Date Sampled: 06/02/2023  
Date Received: 17/02/2023  
Date Tested: 27/02/2023  
Sampled By: Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test Results:

Laboratory Reference: 2592810  
Hole No.: TP307  
Sample Reference: Not Given  
Sample Description: Greyish gravelly sandy CLAY  
Sample Preparation: Sample was quartered, oven dried at 106.0 °C and broken down by hand.

Depth Top [m]: 2.20  
Depth Base [m]: 2.40  
Sample Type: B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
500	100	0.0630	35
300	100	0.0483	35
150	100	0.0348	31
125	100	0.0250	28
90	100	0.0179	26
75	100	0.0132	23
63	100	0.0015	15
50	100		
37.5	100		
28	96		
20	92		
14	85		
10	80		
6.3	74		
5	72		
3.35	70		
2	67	Particle density (assumed) 2.65 Mg/m <sup>3</sup>	
1.18	66		
0.6	64		
0.425	63		
0.3	57		
0.212	48		
0.15	43		
0.063	35		

Sample Proportions	% dry mass
Very coarse	0
Gravel	33
Sand	33
Silt	18
Clay	16

Grading Analysis		
D100	mm	37.5
D60	mm	0.361
D30	mm	0.0309
D10	mm	
Uniformity Coefficient		> 230
Curvature Coefficient		

Uniformity Coefficient calculated in accordance with BS EN ISO 14688-2:2018

Note: Tested in Accordance with BS1377:Part 2:1990, clauses 9.2 and 9.5

### Remarks:

### Signed:

Katarzyna Koziel  
Reporting Specialist  
for and on behalf of i2 Analytical Ltd

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# TEST CERTIFICATE

## DETERMINATION OF THE CALIFORNIA BEARING RATIO (CBR) SOAKED

Tested in Accordance with: BS 1377-4: 1990: Clause 7

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

4041

Client: Hydrock Consultants Ltd  
Client Address: 2-4 Hawthorne Park, Holdenby Road,  
Spratton, Northamptonshire,  
NN6 8LD  
Contact: Nathan Thompson  
Site Address: Begbroke

Client Reference: 19114  
Job Number: 23-18737-1  
Date Sampled: 31/01/2023  
Date Received: 17/02/2023  
Date Tested: 28/02/2023  
Sampled By: Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test Results:

Laboratory Reference: 2592801  
Hole No.: TP302  
Sample Reference: Not Given  
Sample Description: Brown clayey SAND

Depth Top [m]: 0.80  
Depth Base [m]: 1.00  
Sample Type: B

### Specimen Preparation:

Condition Remoulded  
Details Recompacted with specified standard effort using 2.5kg rammer

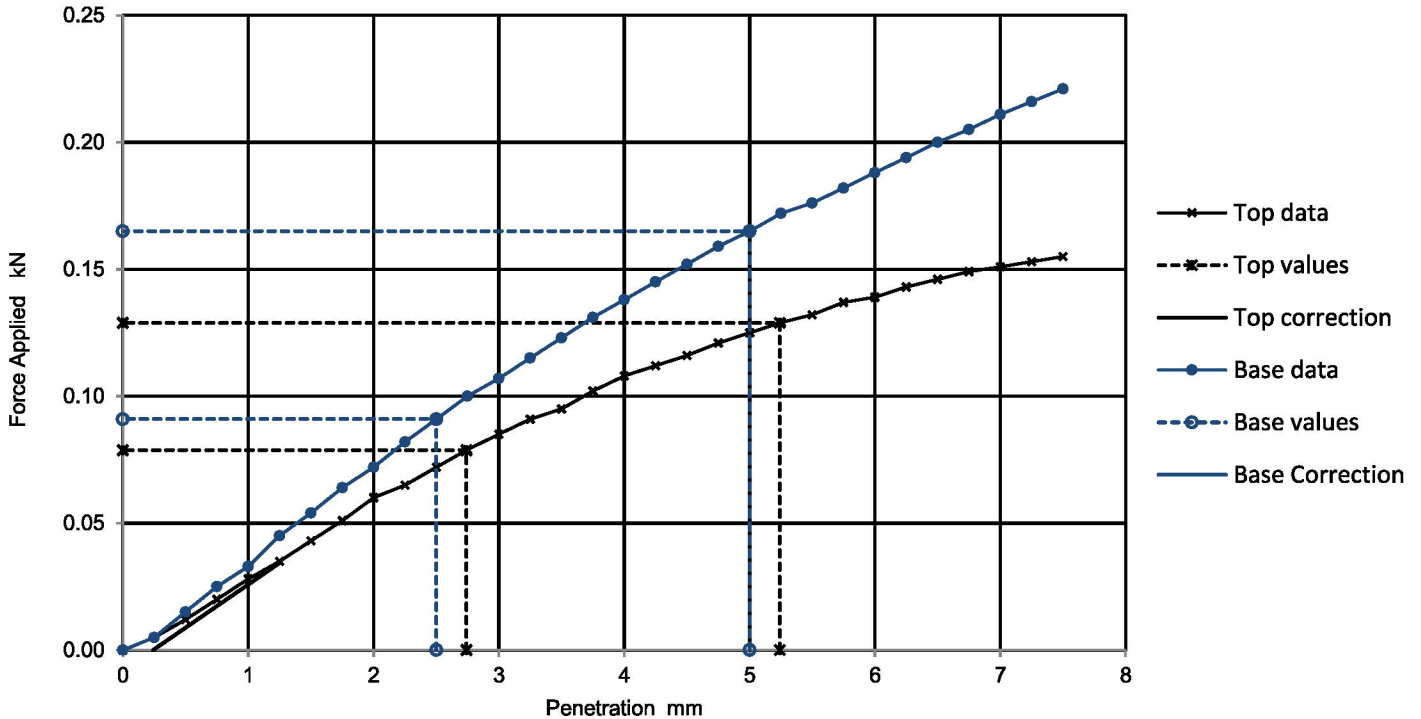
Soaking details  
Period of soaking 8 days  
Time to surface 3 days  
Amount of swell recorded -0.08 mm  
Dry density after soaking 1.76 Mg/m<sup>3</sup>

Material retained on 20mm sieve removed 3 %

Initial Specimen details  
Bulk density 2.08 Mg/m<sup>3</sup>  
Dry density 1.76 Mg/m<sup>3</sup>  
Moisture content 18 %

Surcharge applied 8 kg  
4.8 kPa

Force v Penetration Plots



### Results

TOP  
BASE

Curve correction applied	CBR Values, %			
	2.5mm	5mm	Highest	Average
Yes	0.6	0.6	0.6	
No	0.7	0.8	0.8	

Moisture Content %
19
19

### Remarks:

Test/ Specimen specific remarks:

Signed:

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Reporting Specialist  
for and on behalf of i2 Analytical Ltd

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# TEST CERTIFICATE

## DETERMINATION OF THE CALIFORNIA BEARING RATIO (CBR) SOAKED

Tested in Accordance with: BS 1377-4: 1990: Clause 7

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Environmental Science

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Spratton, Northamptonshire,  
NN6 8LD  
Contact: Nathan Thompson  
Site Address: Begbroke

Client Reference: 19114  
Job Number: 23-18737-1  
Date Sampled: 31/01/2023  
Date Received: 17/02/2023  
Date Tested: 28/02/2023  
Sampled By: Not Given

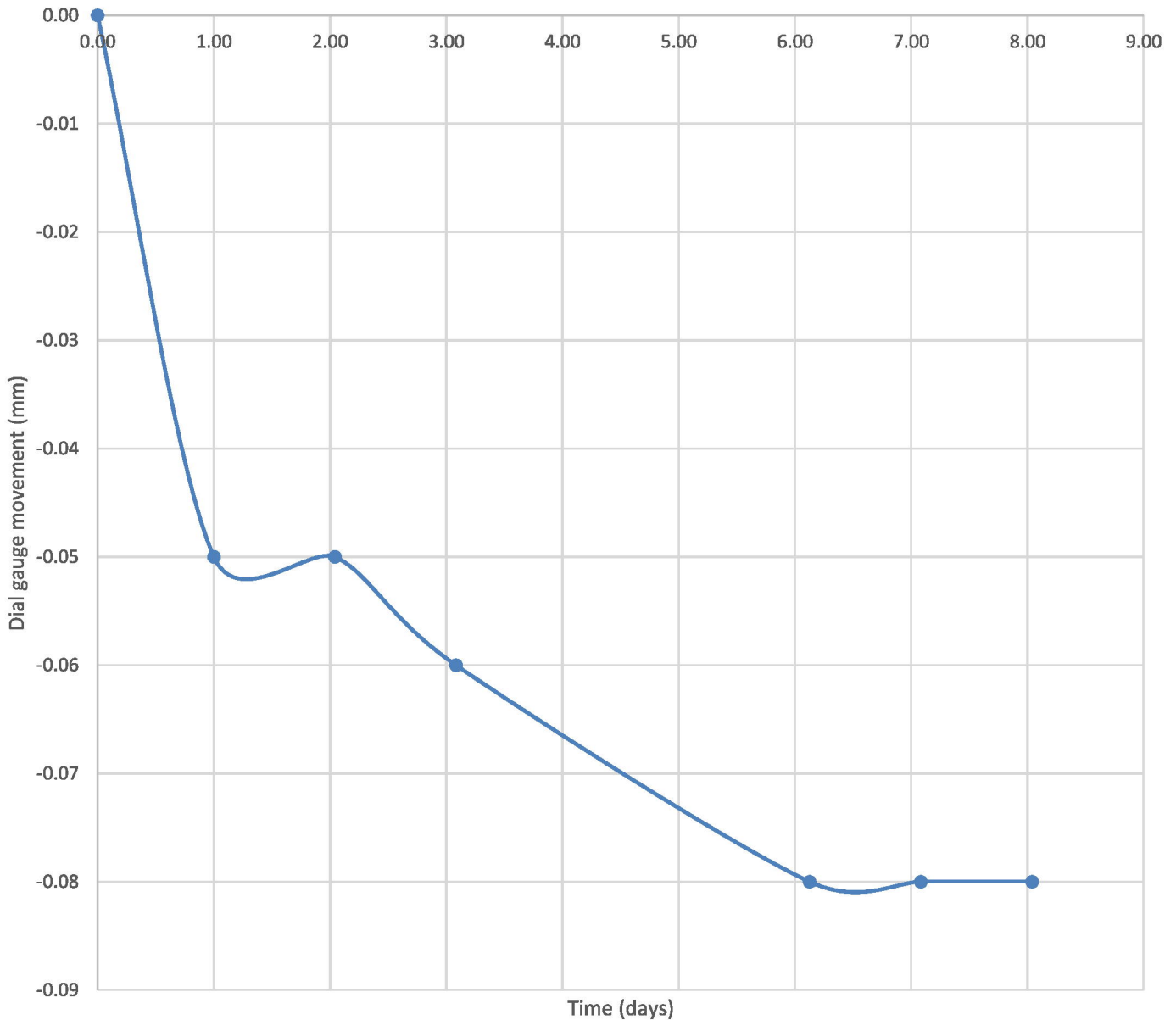
Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test Results:

Laboratory Reference: 2592801  
Hole No.: TP302  
Sample Reference: Not Given  
Sample Description: Brown clayey SAND

Depth Top [m]: 0.80  
Depth Base [m]: 1.00  
Sample Type: B

### CBR Soaked Graph



### Remarks:

Test/ Specimen  
specific remarks:

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Environmental Science

4041

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Spratton, Northamptonshire,  
NN6 8LD  
Contact: Nathan Thompson  
Site Address: Begbroke

Client Reference: 19114  
Job Number: 23-18737-1  
Date Sampled: 02/02/2023  
Date Received: 17/02/2023  
Date Tested: 28/02/2023  
Sampled By: Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test Results:

Laboratory Reference: 2592803  
Hole No.: TP303  
Sample Reference: Not Given  
Sample Description: Brown gravelly SAND

Depth Top [m]: 0.80  
Depth Base [m]: 1.20  
Sample Type: B

### Specimen Preparation:

Condition Remoulded  
Details Recompacted with specified standard effort using 2.5kg rammer

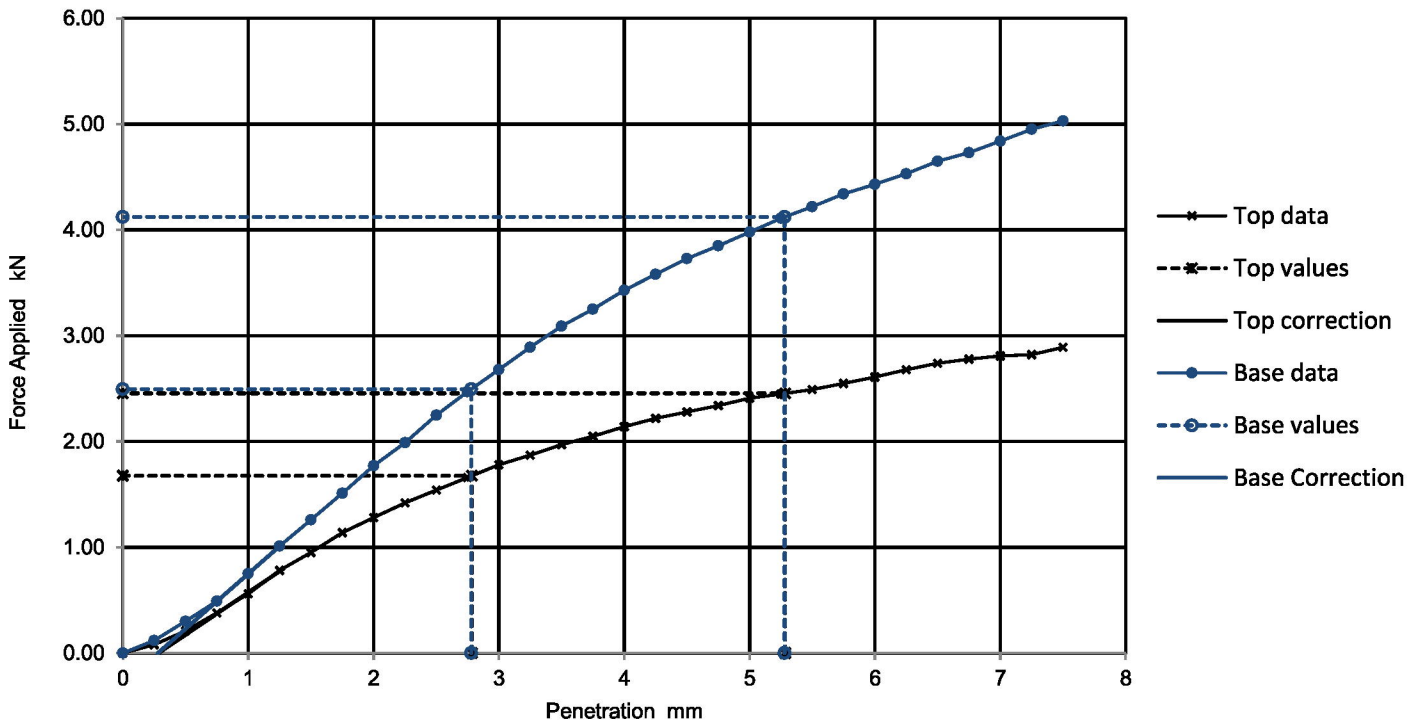
Soaking details  
Period of soaking 6 days  
Time to surface 3 days  
Amount of swell recorded -0.03 mm  
Dry density after soaking 1.90 Mg/m<sup>3</sup>

Material retained on 20mm sieve removed 14 %

Initial Specimen details  
Bulk density 2.06 Mg/m<sup>3</sup>  
Dry density 1.90 Mg/m<sup>3</sup>  
Moisture content 8.6 %

Surcharge applied 8 kg  
4.8 kPa

Force v Penetration Plots



### Results

TOP  
BASE

Curve correction applied	CBR Values, %			
	2.5mm	5mm	Highest	Average
Yes	13.0	12.0	13.0	
Yes	19.0	21.0	21.0	

Moisture Content %
14
13

### Remarks:

Test/ Specimen specific remarks:

Signed:

Katarzyna Koziel  
Reporting Specialist  
for and on behalf of i2 Analytical Ltd

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i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

4041

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NN6 8LD  
Contact: Nathan Thompson  
Site Address: Begbroke

Client Reference: 19114  
Job Number: 23-18737-1  
Date Sampled: 02/02/2023  
Date Received: 17/02/2023  
Date Tested: 28/02/2023  
Sampled By: Not Given

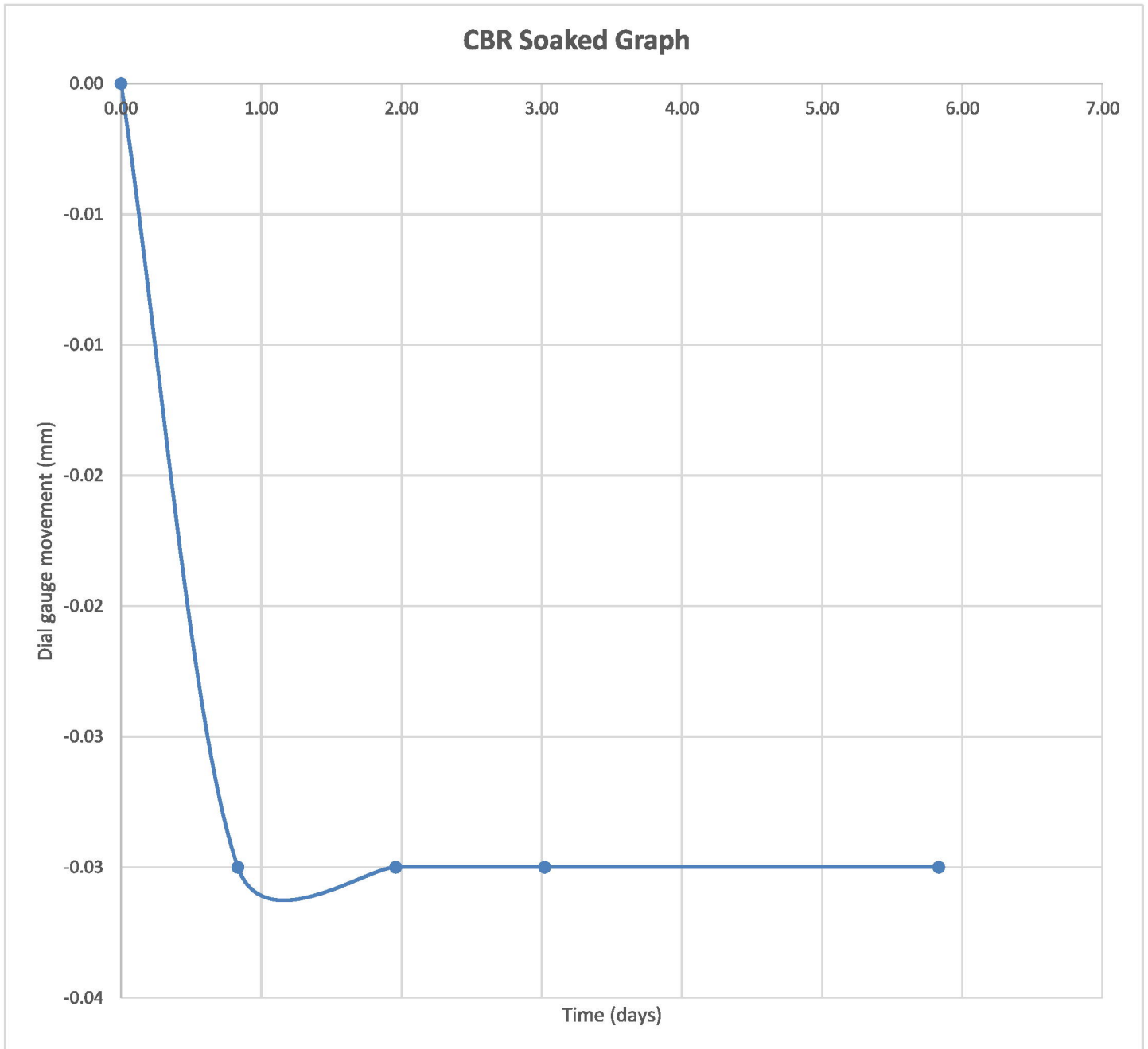
Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test Results:

Laboratory Reference: 2592803  
Hole No.: TP303  
Sample Reference: Not Given  
Sample Description: Brown gravelly SAND

Depth Top [m]: 0.80  
Depth Base [m]: 1.20  
Sample Type: B

### CBR Soaked Graph



### Remarks:

Test/ Specimen  
specific remarks:

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Reporting Specialist  
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# TEST CERTIFICATE

## DETERMINATION OF THE CALIFORNIA BEARING RATIO (CBR) SOAKED

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Environmental Science

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Client Address: 2-4 Hawthorne Park, Holdenby Road,  
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NN6 8LD  
Contact: Nathan Thompson  
Site Address: Begbroke

Client Reference: 19114  
Job Number: 23-18737-1  
Date Sampled: 31/01/2023  
Date Received: 17/02/2023  
Date Tested: 28/02/2023  
Sampled By: Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test Results:

Laboratory Reference: 2592804  
Hole No.: TP304  
Sample Reference: Not Given  
Sample Description: Brown slightly gravelly clayey SAND

Depth Top [m]: 0.60  
Depth Base [m]: 0.80  
Sample Type: B

### Specimen Preparation:

Condition Remoulded  
Details Recompacted with specified standard effort using 2.5kg rammer

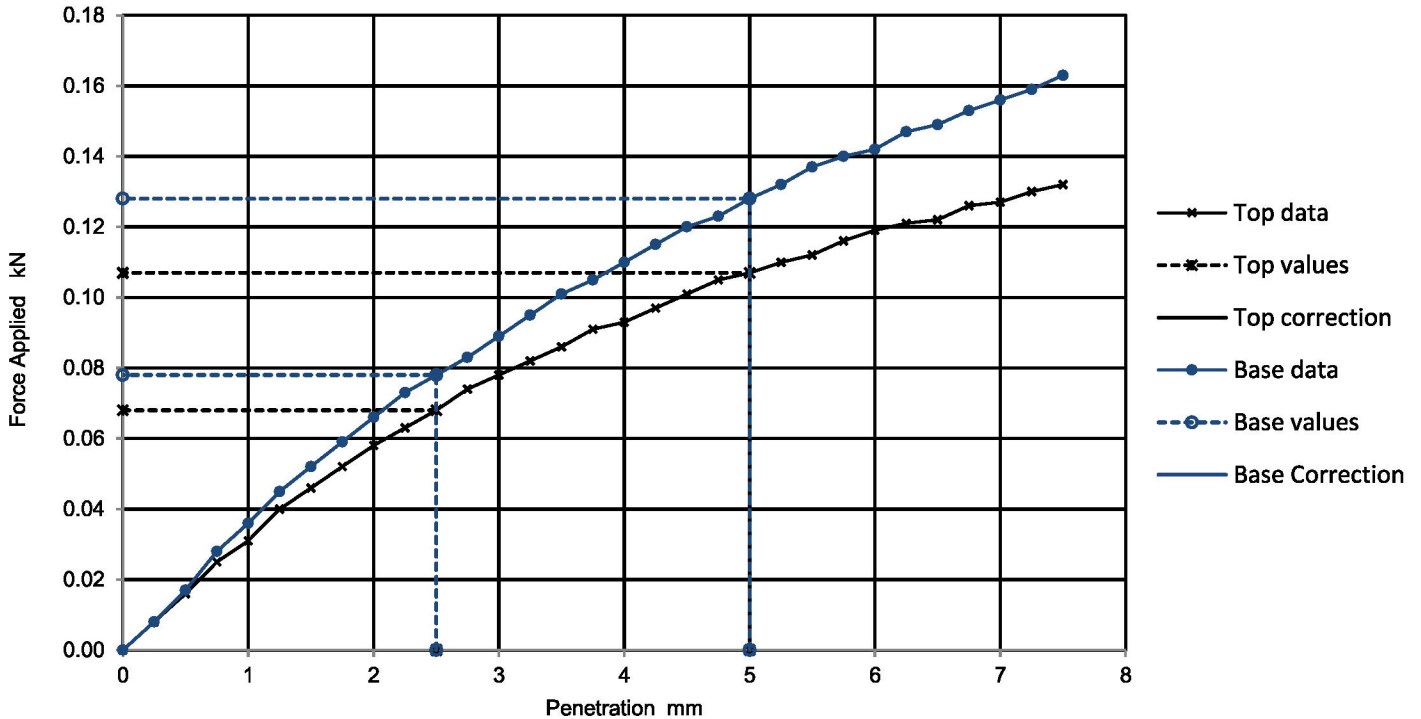
Soaking details  
Period of soaking 9 days  
Time to surface 3 days  
Amount of swell recorded -0.65 mm  
Dry density after soaking 1.74 Mg/m<sup>3</sup>

Material retained on 20mm sieve removed 0 %

Initial Specimen details  
Bulk density 2.07 Mg/m<sup>3</sup>  
Dry density 1.73 Mg/m<sup>3</sup>  
Moisture content 20 %

Surcharge applied 8 kg  
4.8 kPa

Force v Penetration Plots



### Results

TOP  
BASE

Curve correction applied	CBR Values, %			
	2.5mm	5mm	Highest	Average
No	0.5	0.5	0.5	0.6
No	0.6	0.6	0.6	

Moisture Content %
19
18

### Remarks:

Test/ Specimen specific remarks:

Signed:

Katarzyna Koziel  
Reporting Specialist  
for and on behalf of i2 Analytical Ltd

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## DETERMINATION OF THE CALIFORNIA BEARING RATIO (CBR) SOAKED

Tested in Accordance with: BS 1377-4: 1990: Clause 7

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

4041

Client: Hydrock Consultants Ltd  
Client Address: 2-4 Hawthorne Park, Holdenby Road,  
Spratton, Northamptonshire,  
NN6 8LD  
Contact: Nathan Thompson  
Site Address: Begbroke

Client Reference: 19114  
Job Number: 23-18737-1  
Date Sampled: 31/01/2023  
Date Received: 17/02/2023  
Date Tested: 28/02/2023  
Sampled By: Not Given

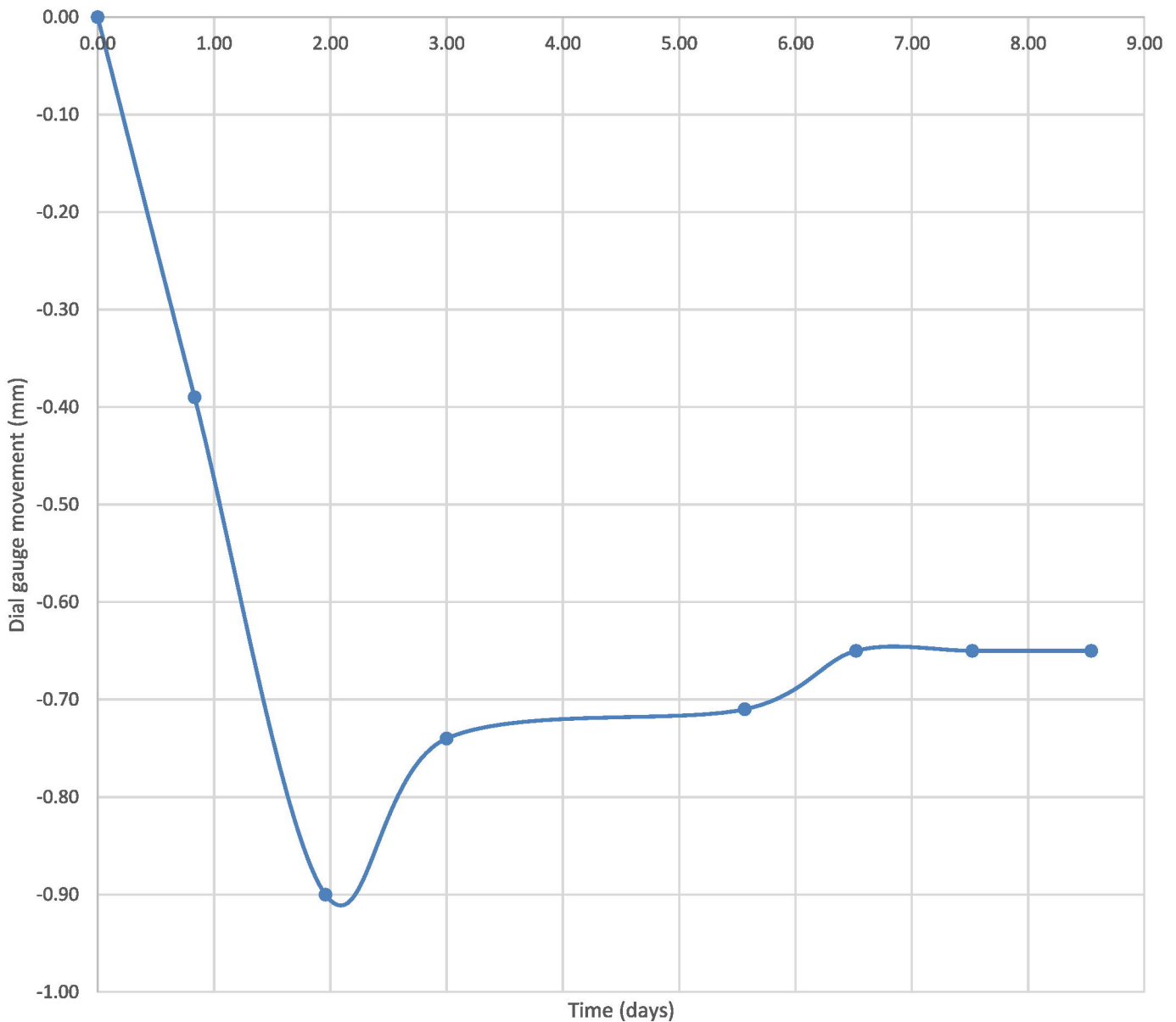
Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test Results:

Laboratory Reference: 2592804  
Hole No.: TP304  
Sample Reference: Not Given  
Sample Description: Brown slightly gravelly clayey SAND

Depth Top [m]: 0.60  
Depth Base [m]: 0.80  
Sample Type: B

### CBR Soaked Graph



Remarks:

Test/ Specimen  
specific remarks:

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# TEST CERTIFICATE

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Environmental Science

4041

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Contact: Nathan Thompson  
Site Address: Begbroke

Client Reference: 19114  
Job Number: 23-18737-1  
Date Sampled: 31/01/2023  
Date Received: 17/02/2023  
Date Tested: 28/02/2023  
Sampled By: Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test Results:

Laboratory Reference: 2592806  
Hole No.: TP305  
Sample Reference: Not Given  
Sample Description: Yellowish brown gravelly SAND

Depth Top [m]: 1.00  
Depth Base [m]: 1.40  
Sample Type: B

### Specimen Preparation:

Condition Remoulded  
Details Recompacted with specified standard effort using 2.5kg rammer

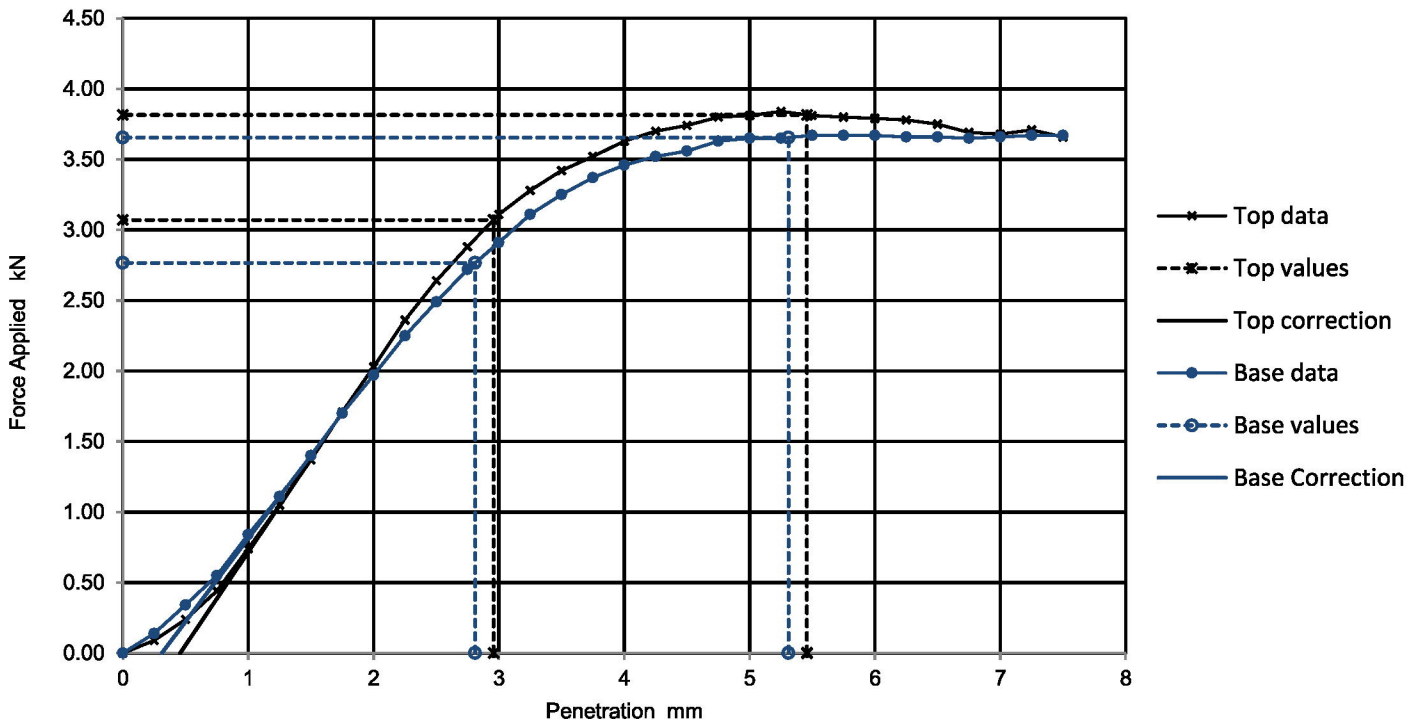
Soaking details  
Period of soaking 8 days  
Time to surface 3 days  
Amount of swell recorded -0.04 mm  
Dry density after soaking 1.87 Mg/m<sup>3</sup>

Material retained on 20mm sieve removed 12 %

Initial Specimen details  
Bulk density 2.11 Mg/m<sup>3</sup>  
Dry density 1.87 Mg/m<sup>3</sup>  
Moisture content 13 %

Surcharge applied 8 kg  
4.8 kPa

Force v Penetration Plots



### Results

TOP  
BASE

Curve correction applied	CBR Values, %			
	2.5mm	5mm	Highest	Average
Yes	23.0	19.0	23.0	22.0
Yes	21.0	18.0	21.0	

Moisture Content %
15
14

### Remarks:

Test/ Specimen specific remarks:

Signed:

Katarzyna Koziel  
Reporting Specialist  
for and on behalf of i2 Analytical Ltd

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# TEST CERTIFICATE

## DETERMINATION OF THE CALIFORNIA BEARING RATIO (CBR) SOAKED

Tested in Accordance with: BS 1377-4: 1990: Clause 7

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

4041

Client: Hydrock Consultants Ltd  
Client Address: 2-4 Hawthorne Park, Holdenby Road,  
Spratton, Northamptonshire,  
NN6 8LD  
Contact: Nathan Thompson  
Site Address: Begbroke

Client Reference: 19114  
Job Number: 23-18737-1  
Date Sampled: 31/01/2023  
Date Received: 17/02/2023  
Date Tested: 28/02/2023  
Sampled By: Not Given

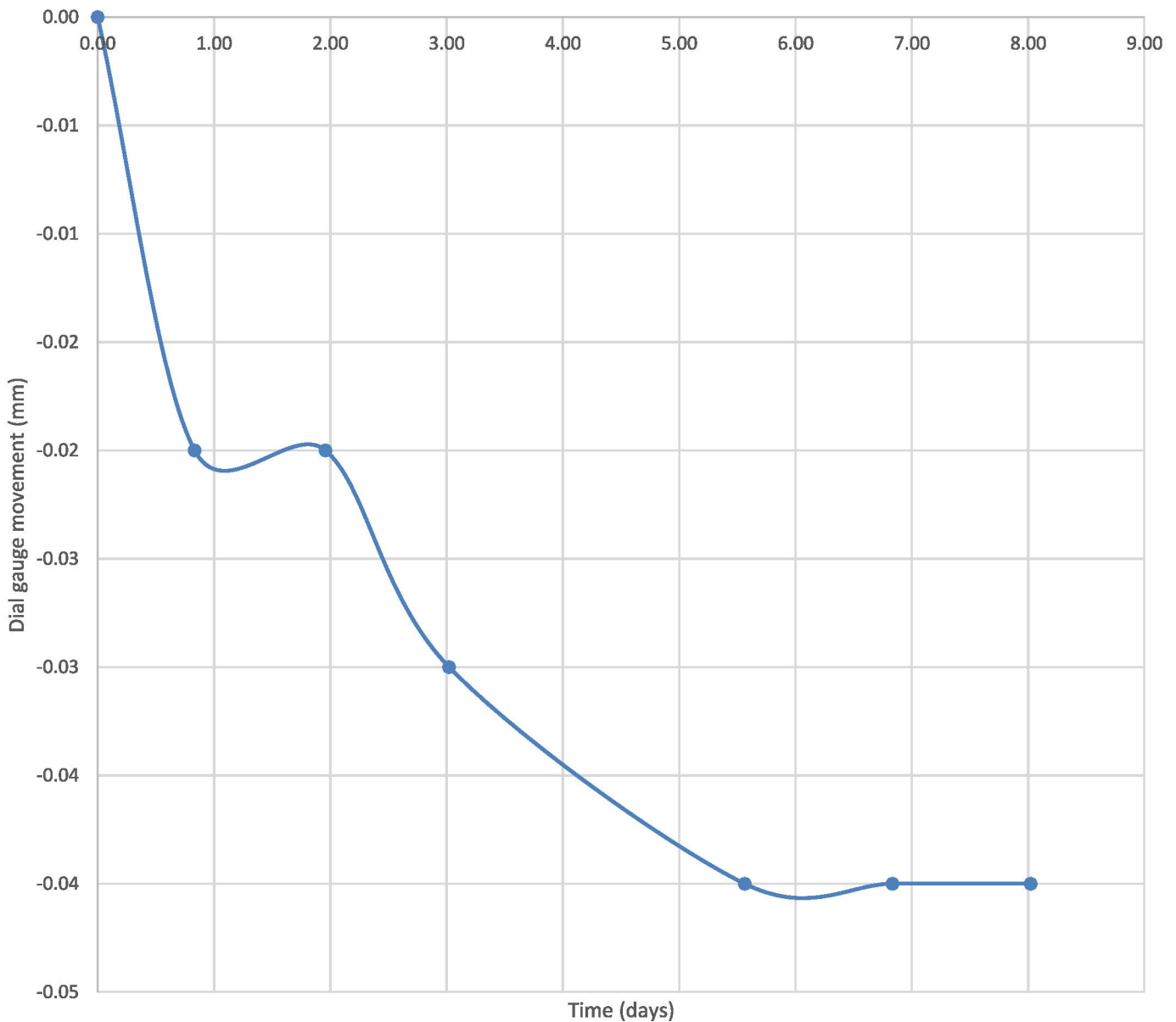
Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test Results:

Laboratory Reference: 2592806  
Hole No.: TP305  
Sample Reference: Not Given  
Sample Description: Yellowish brown gravelly SAND

Depth Top [m]: 1.00  
Depth Base [m]: 1.40  
Sample Type: B

### CBR Soaked Graph



Remarks:

Test/ Specimen  
specific remarks:

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## DETERMINATION OF THE CALIFORNIA BEARING RATIO (CBR) SOAKED

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NN6 8LD  
Contact: Nathan Thompson  
Site Address: Begbroke

Client Reference: 19114  
Job Number: 23-18737-1  
Date Sampled: 06/02/2023  
Date Received: 17/02/2023  
Date Tested: 28/02/2023  
Sampled By: Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test Results:

Laboratory Reference: 2592812  
Hole No.: TP309  
Sample Reference: Not Given  
Sample Description: Yellowish brown gravelly SAND

Depth Top [m]: 0.60  
Depth Base [m]: 0.70  
Sample Type: B

### Specimen Preparation:

Condition Remoulded  
Details Recompacted with specified standard effort using 2.5kg rammer

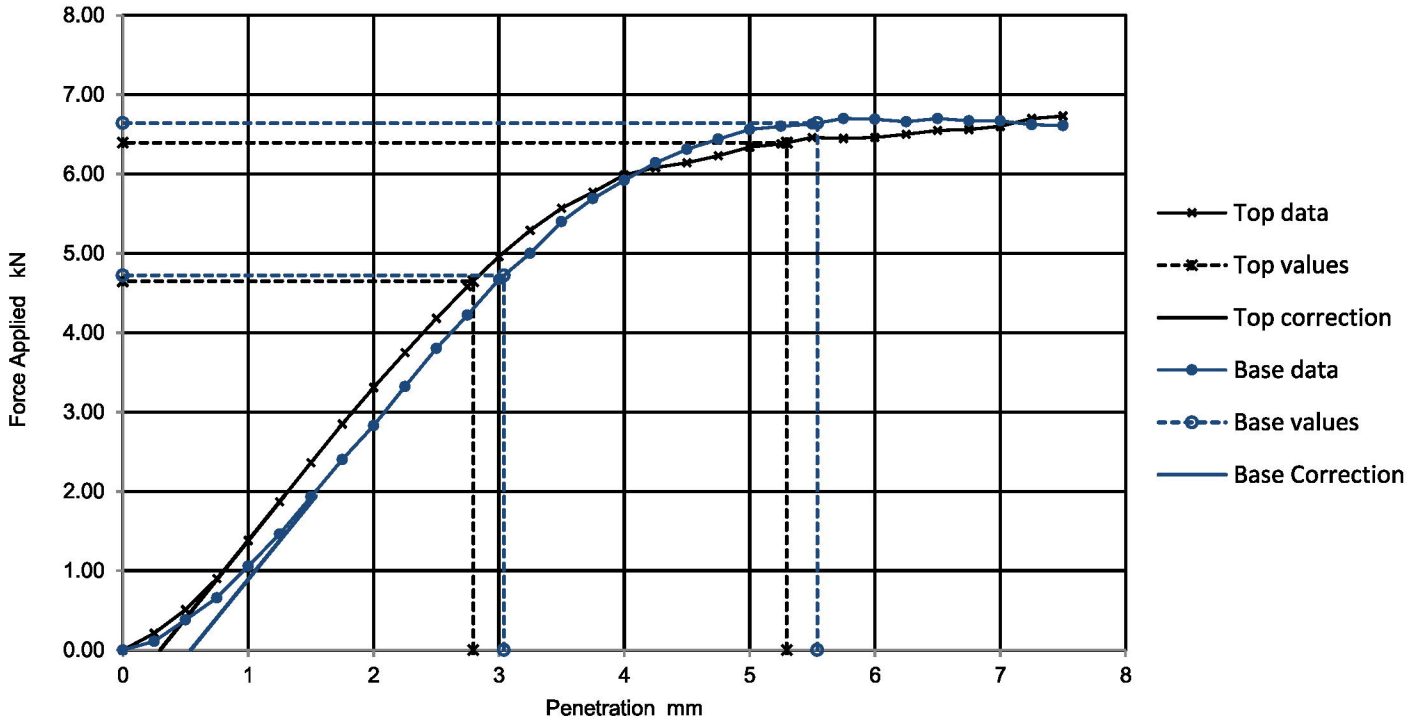
Soaking details  
Period of soaking 11 days  
Time to surface 3 days  
Amount of swell recorded -0.12 mm  
Dry density after soaking 1.94 Mg/m<sup>3</sup>

Material retained on 20mm sieve removed 7 %

Initial Specimen details  
Bulk density 2.18 Mg/m<sup>3</sup>  
Dry density 1.94 Mg/m<sup>3</sup>  
Moisture content 12 %

Surcharge applied 8 kg  
4.8 kPa

Force v Penetration Plots



### Results

	Curve correction applied	CBR Values, %				Moisture Content %
		2.5mm	5mm	Highest	Average	
TOP	Yes	35.0	32.0	35.0	36.0	12
BASE	Yes	36.0	33.0	36.0		13

### Remarks:

Test/ Specimen specific remarks:

Signed:

Katarzyna Koziel  
Reporting Specialist  
for and on behalf of i2 Analytical Ltd

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# TEST CERTIFICATE

## DETERMINATION OF THE CALIFORNIA BEARING RATIO (CBR) SOAKED

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Client: Hydrock Consultants Ltd  
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Contact: Nathan Thompson  
Site Address: Begbroke

Client Reference: 19114  
Job Number: 23-18737-1  
Date Sampled: 06/02/2023  
Date Received: 17/02/2023  
Date Tested: 28/02/2023  
Sampled By: Not Given

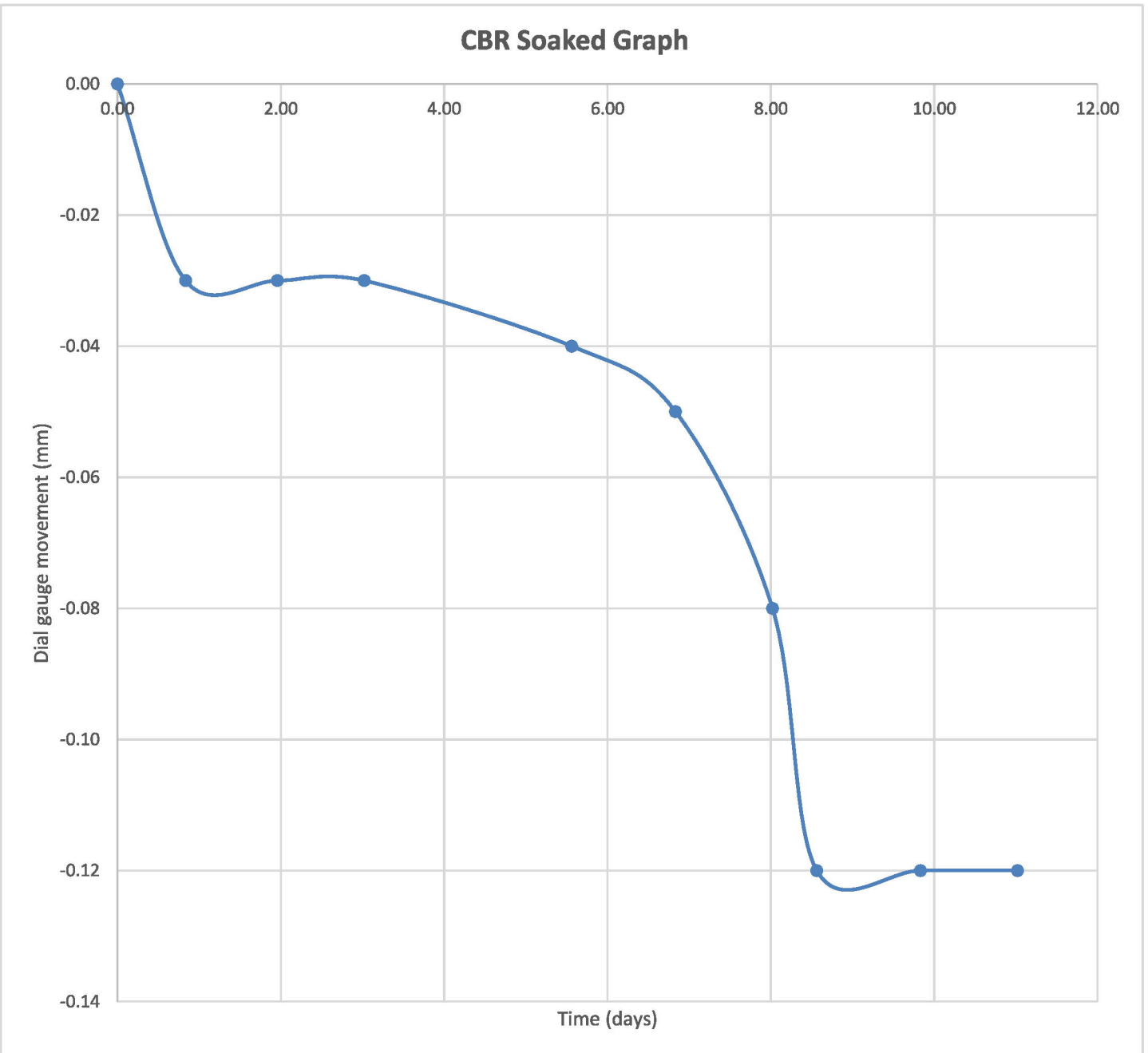
Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test Results:

Laboratory Reference: 2592812  
Hole No.: TP309  
Sample Reference: Not Given  
Sample Description: Yellowish brown gravelly SAND

Depth Top [m]: 0.60  
Depth Base [m]: 0.70  
Sample Type: B

### CBR Soaked Graph



### Remarks:

Test/ Specimen specific remarks:

Opinions and interpretations expressed herein are outside of the scope of the UKAS Accreditation. This report may not be reproduced other than in full without the prior written approval of the issuing laboratory. The results included within the report relate only to the sample(s) submitted for testing.

Signed:



Katarzyna Koziel  
Reporting Specialist  
for and on behalf of i2 Analytical Ltd



# SUMMARY REPORT

## DETERMINATION OF POINT LOAD STRENGTH

Tested in Accordance with: ISRM: 2007, pages 125-132

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

4041

Client: Hydrock Consultants Ltd  
Client Address: 2-4 Hawthorne Park, Holdenby Road,  
Spratton, Northamptonshire,  
NN6 8LD

Contact: Nathan Thompson  
Site Address: Begbroke

Client Reference: 19114  
Job Number: 23-18737-1  
Date Sampled: 16/02/2023  
Date Received: 17/02/2023  
Date Tested: 03/03/2023  
Sampled By: Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test results

Laboratory Reference	Hole No.	Sample				Description	Remarks # (including water content if measured)	Specimen Reference	Test Type see ISRM		Failure Valid (Y/N)	Dimensions				Force P kN	Equivalent diameter, De mm	Point Load Strength Index	
		Reference	Depth Top m	Depth Base m	Type				Type (D, A, I, B)	Direction (L, P or U)		Line mm	W mm	Dps mm	Dps' mm			Is MPa	Is(50) MPa
2592825	RO301	Not Given	5.00	5.13	C	Grey LIMESTONE	WC = 2.7%	1	D	U	YES	66.5	89.7	89.0	78.0	14.9	83.6	2.12	2.68
2592829	RO302	Not Given	5.35	5.50	C	Grey LIMESTONE	WC = 2.0%	1	D	U	YES	74.0	89.9	89.0	75.0	15.7	82.1	2.32	2.90
2592830	RO302	Not Given	13.00	13.15	C	Grey LIMESTONE	WC = 2.7%	1	D	U	YES	61.5	89.5	89.0	86.0	12.5	87.7	1.62	2.08
2592831	RO302	Not Given	14.40	14.55	C	Grey LIMESTONE	WC = 6.4%	1	D	U	YES	78.0	89.3	89.0	85.0	4.1	87.1	0.54	0.69
2592832	RO302	Not Given	19.38	19.48	C	Grey LIMESTONE	WC = 4.6%	1	A	U	YES	-	88.9	65.0	59.0	7.8	81.7	1.16	1.45
2592833	RO303	Not Given	5.60	5.75	C	Grey LIMESTONE	WC = 2.5%	1	D	U	YES	106.3	89.6	90.0	82.0	15.2	85.7	2.07	2.64
2592835	RO303	Not Given	14.75	14.90	C	Brownish grey LIMESTONE	WC = 2.8%	1	D	U	YES	71.1	89.3	89.0	85.0	12.4	87.1	1.63	2.10
2592836	RO303	Not Given	20.20	20.35	C	Light grey LIMESTONE	WC = 5.2%	1	D	U	YES	75.2	88.9	88.0	80.0	10.2	84.3	1.43	1.81
2592837	RO304	Not Given	7.75	7.85	C	Grey LIMESTONE	WC = 1.3%	1	A	L	YES	-	89.6	57.0	48.0	3.8	74.0	0.68	0.82
2592838	RO304	Not Given	12.50	12.65	C	Grey to light grey LIMESTONE	WC = 6.0%	1	A	P	YES	-	87.2	63.0	40.0	3.6	66.6	0.80	0.91

Note: # non accredited; Test Type: D - Diametral, A - Axial, I - Irregular Lump, B - Block; Direction: L - parallel to planes of weakness, P - perpendicular to planes of weakness, U - unknown or random;  
Dimensions: Dpe - Distance between platens ( platen separation ), Dps' - at failure ( see ISRM note 6), Line - Length from platens to nearest free end W - Width of shortest dimension perpendicular to load, P;  
Detailed legend for test and dimensions, based on ISRM, is shown above; Size factor, F = (De/50)0.45 for all tests

### Comments:

Signed:

Katarzyna Koziel  
Reporting Specialist  
for and on behalf of i2 Analytical Ltd

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# SUMMARY REPORT

## DETERMINATION OF POINT LOAD STRENGTH

Tested in Accordance with: ISRM: 2007, pages 125-132

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

4041

Client: Hydrock Consultants Ltd  
Client Address: 2-4 Hawthorne Park, Holdenby Road,  
Spratton, Northamptonshire,  
NN6 8LD

Contact: Nathan Thompson  
Site Address: Begbroke

Client Reference: 19114  
Job Number: 23-18737-1  
Date Sampled: 16/02/2023  
Date Received: 17/02/2023  
Date Tested: 03/03/2023  
Sampled By: Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test results

Laboratory Reference	Hole No.	Sample				Description	Remarks # (including water content if measured)	Specimen Reference	Test Type see ISRM		Failure Valid (Y/N)	Dimensions				Force P kN	Equivalent diameter, De mm	Point Load Strength Index	
		Reference	Depth Top m	Depth Base m	Type				Type (D, A, I, B)	Direction (L, P or U)		Lne mm	W mm	Dps mm	Dps' mm			Is MPa	Is(50) MPa
2592839	RO304	Not Given	16.30	16.50	C	Grey LIMESTONE	WC = 4.9%	1	I	U	YES	83.4	81.5	80.0	68.0	4.1	84.0	0.58	0.73
2592840	RO304	Not Given	19.70	19.80	C	Grey LIMESTONE	WC = 2.1%	1	A	U	YES	-	89.9	54.0	52.0	3.9	77.1	0.66	0.80
2592841	RO305	Not Given	19.10	19.20	C	Grey LIMESTONE	WC = 1.8%	1	I	U	YES	60.1	85.0	60.0	53.0	19.9	75.7	3.46	4.17

Note: # non accredited; Test Type: D - Diametral, A - Axial, I - Irregular Lump, B - Block; Direction: L - parallel to planes of weakness, P - perpendicular to planes of weakness, U - unknown or random;  
Dimensions: Dpe - Distance between pistons ( platen separation ), Dps' - at failure ( see ISRM note 6), Lne - Length from platens to nearest free end W - Width of shortest dimension perpendicular to load, P;  
Detailed legend for test and dimensions, based on ISRM, is shown above; Size factor, F = (De/50)0.45 for all tests

### Comments:

Signed:



Katarzyna Koziel  
Reporting Specialist  
for and on behalf of i2 Analytical Ltd

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# SUMMARY REPORT

## DETERMINATION OF UNIAXIAL COMPRESSIVE STRENGTH OF ROCK MATERIALS

Tested in Accordance with: ISRM, 2007, p153, part 1

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

4041

Client: Hydrock Consultants Ltd  
Client Address: 2-4 Hawthorne Park, Holdenby Road,  
Spratton, Northamptonshire,  
NN6 8LD

Contact: Nathan Thompson  
Site Address: Begbroke

Client Reference: 19114  
Job Number: 23-18737-1  
Date Sampled: 16/02/2023  
Date Received: 17/02/2023  
Date Tested: 06/03/2023  
Sampled By: Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test results

Laboratory Reference	Hole No.	Sample				Description	Remarks	Specimen Dimensions (2)				Bulk density (2) Mg/m3	Water Content (1) %	Uniaxial Compression (3)			
		Reference	Depth Top m	Depth Base m	Type			Diameter mm	Length mm	H/D	Orientation of sample			Condition	Stress Rate Mpa/s	Mode of failure	UCS Mpa
2592826	RO301	Not Given	7.15	7.35	C	Grey LIMESTONE	Sample is below recommended length to diameter ratio.	88.7	109.7	1.2	Vertical	2.67	1.8	as received	0.0809	AC	42.4
2592827	RO301	Not Given	12.75	13.00	C	Light grey LIMESTONE	Sample is below recommended length to diameter ratio.	89.1	209.3	2.3	Vertical	2.62	1.5	as received	0.0802	AC	24.4
2592828	RO301	Not Given	18.60	18.73	C	Light grey LIMESTONE	Sample is below recommended length to diameter ratio.	89.4	95.2	1.1	Vertical	2.49	3.5	as received	0.0796	MS + AC	27.2
2592834	RO303	Not Given	8.00	8.21	C	Grey LIMESTONE	Sample is below recommended length to diameter ratio.	88.7	206.5	2.3	Vertical	2.68	2.8	as received	0.0809	MS + AC	35.2

Note: 1 - ISRM p87 test 1, water content at 105 ± 3 °C - not accredited, specimen as tested for UCS, 2 - ISRM p86 clause (vii), Calliper method used for determination of bulk volume and derivation of bulk density, 3 - ISRM p153 part 1, determination of Uniaxial Compressive Strength ( UCS ) of Rock Materials, above notes apply unless annotated otherwise in the remarks. Compaction machine: VJ Tech AUTOCON - VJT 51-3011; Mode of failure legend: S - Single shear, MS - multiple shear, AC - Axial cleavage, F - Fragmented

Comments:

Signed:



Katarzyna Koziel  
Reporting Specialist  
for and on behalf of i2 Analytical Ltd

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4041

Tested in Accordance with: BS 1377-7: 1990: Clause 8

Client: Hydrock Consultants Ltd  
Client Address: 2-4 Hawthorne Park, Holdenby Road,  
Spratton, Northamptonshire,  
NN6 8LD  
Contact: Nathan Thompson  
Site Address: Begbroke

Client Reference: 19114  
Job Number: 23-18737-1  
Date Sampled: 07/02/2023  
Date Received: 17/02/2023  
Date Tested: 27/02/2023  
Sampled By: Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

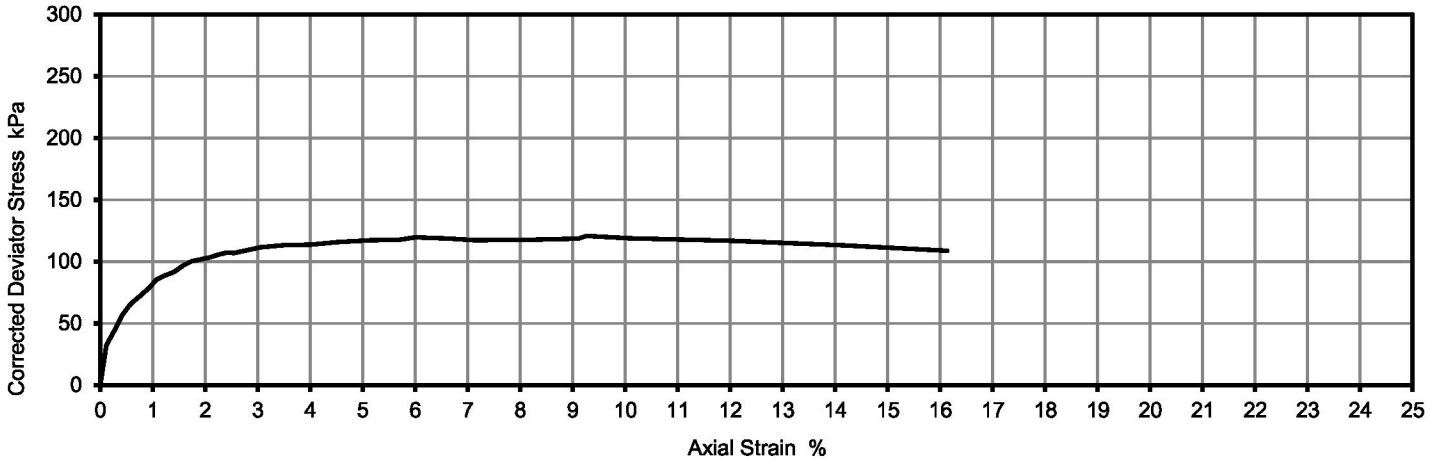
**Test Results:**

Laboratory Reference: 2592817  
Hole No.: RO301  
Sample Reference: Not Given  
Sample Description: Greyish brown slightly gravelly slightly silty CLAY  
Sample Preparation: Sample prepared in accordance with BS 1377-1:2016 Clause 9.1.1.

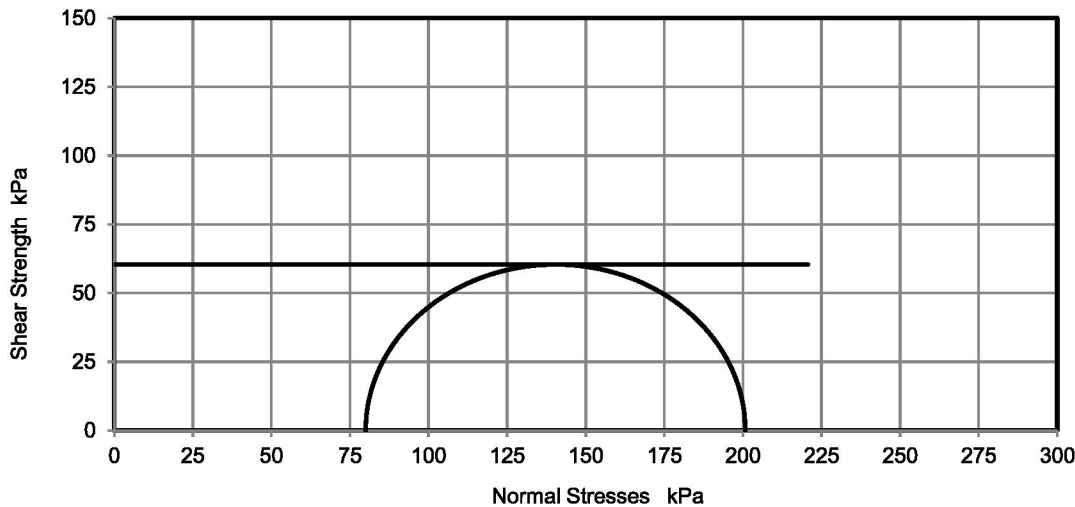
Depth Top [m]: 4.00  
Depth Base [m]: 4.50  
Sample Type: U

Test Number	1	Rate of Strain	2.00	%/min
Length	76.10	Cell Pressure	80	kPa
Diameter	37.71	Axial Strain at failure	9.3	%
Bulk Density	1.90	Deviator Stress, $(\sigma_1 - \sigma_3)_f$	121	kPa
Moisture Content	25	Undrained Shear Strength, $c_u$	60	kPa $\frac{1}{2}(\sigma_1 - \sigma_3)_f$
Dry Density	1.51	Mode of Failure	Brittle	
Membrane Correction	1.12	Latex membrane thickness	0.20	mm

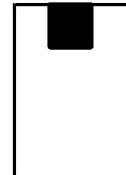
**Deviator Stress v Axial Strain**



**Mohr Circles**



Position within sample



Note: Deviator stress corrected for area change and membrane effects. Mohr circles and their interpretation is not covered by BS1377. This is provided for information only.

**Remarks:**

Signed:

Katarzyna Koziel  
Reporting Specialist  
for and on behalf of i2 Analytical Ltd

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# TEST CERTIFICATE

## DETERMINATION OF THE ONE-DIMENSIONAL CONSOLIDATION PROPERTIES

Tested in Accordance with: BS 1377-5:1990: Clause 3

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

4041

Client: Hydrock Consultants Ltd  
Client Address: 2-4 Hawthorne Park, Holdenby Road, Spratton, Northamptonshire, NN6 8LD  
Contact: Nathan Thompson  
Site Address: Begbroke

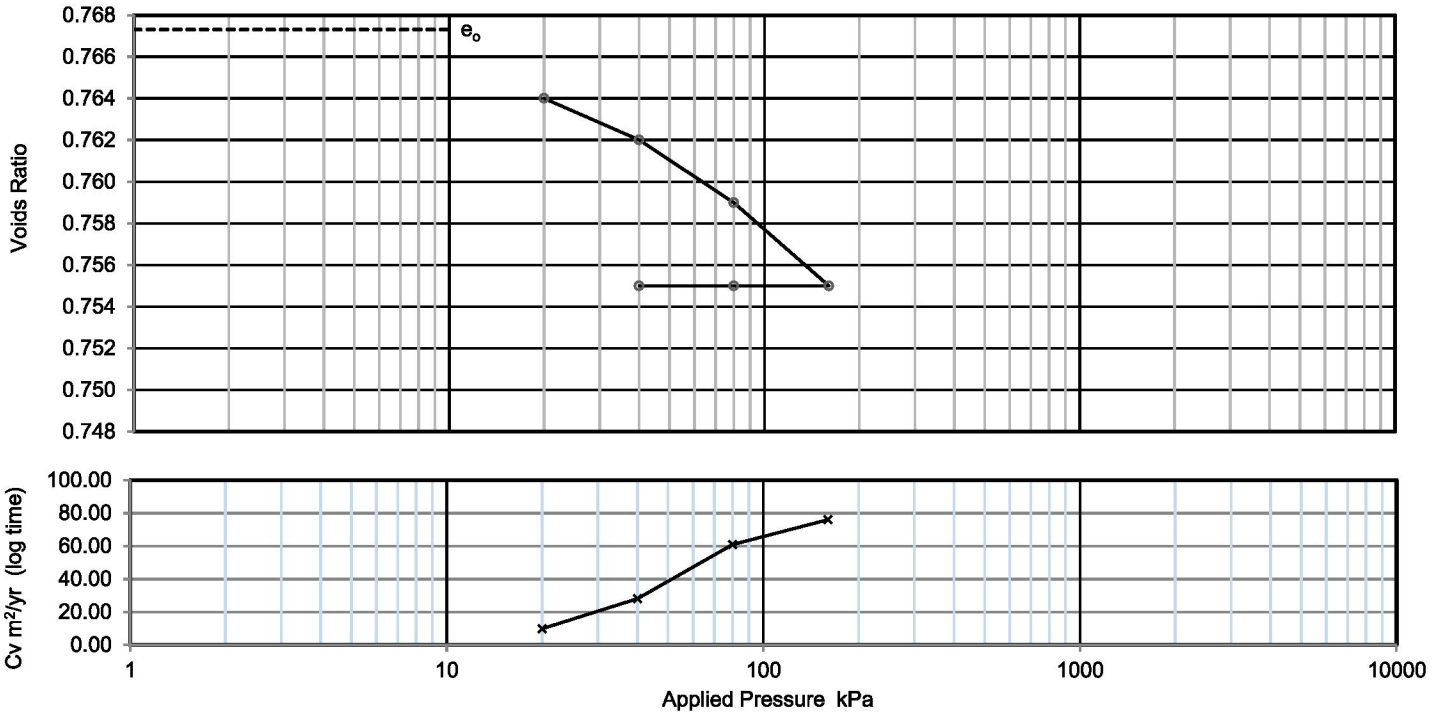
Client Reference: 19114  
Job Number: 23-18737-1  
Date Sampled: 07/02/2023  
Date Received: 17/02/2023  
Date Tested: 24/02/2023  
Sampled By: Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test Results:

Laboratory Reference: 2592793  
Hole No.: RO301  
Sample Reference: Not Given  
Sample Description: Yellowish brown very gravelly SAND

Depth Top [m]: 1.00  
Depth Base [m]: 1.50  
Sample Type: U



Applied Pressure kPa	Voids ratio	Mv m2/MN	Cv (t50, log) m2/yr	Cv (t90, root) m2/yr	Csec
0	0.767	-	-	-	-
20	0.764	0.08	9.8	11	0.00016
40	0.762	0.097	28	20	0.00012
80	0.759	0.035	61	32	0.00017
160	0.755	0.024	76	45	0.00019
40	0.755	0.00042			
80	0.755	0.0013	N/A	N/A	N/A

Preparation

Carried out on top of U100

Index tests

Orientation of the sample

Particle density

Liquid limit

Plastic limit

N/A	
assumed	2.65 Mg/m3
N/A	%
N/A	%

Specimen details

Diameter

Height

Moisture Content

Bulk density

Dry density

Voids Ratio

Saturation

Avg. temperature for test

Swelling Pressure

Settlement on saturation

Total test time

Initial	Final	
50.10	-	mm
20.10	19.96	mm
23	25	%
1.85	1.89	Mg/m3
1.50	1.51	Mg/m3
0.767	0.755	
80	88	%
22.0		°C
Not measured		kPa
		%
6		days

Note: Cv corrected to 20°C

Remarks:

Signed:

Katarzyna Koziel

Reporting Specialist

for and on behalf of i2 Analytical Ltd

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# TEST CERTIFICATE

## DETERMINATION OF THE ONE-DIMENSIONAL CONSOLIDATION PROPERTIES

Tested in Accordance with: BS 1377-5:1990: Clause 3

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB

4041

Client: Hydrock Consultants Ltd  
Client Address: 2-4 Hawthorne Park, Holdenby Road,  
Spratton, Northamptonshire,  
NN6 8LD

Contact: Nathan Thompson  
Site Address: Begbroke

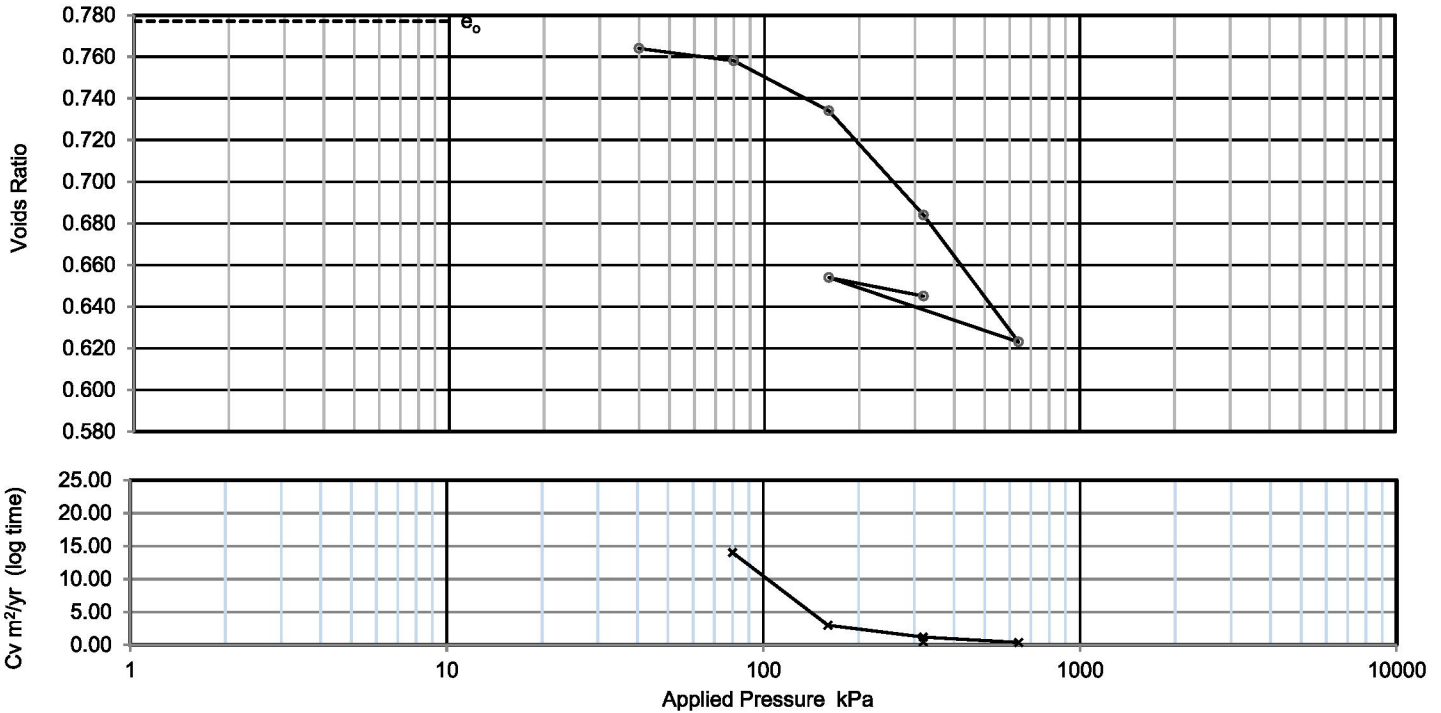
Client Reference: 19114  
Job Number: 23-18737-1  
Date Sampled: 07/02/2023  
Date Received: 17/02/2023  
Date Tested: 24/02/2023  
Sampled By: Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test Results:

Laboratory Reference: 2592817  
Hole No.: RO301  
Sample Reference: Not Given  
Sample Description: Greyish brown slightly gravelly slightly silty CLAY

Depth Top [m]: 4.00  
Depth Base [m]: 4.50  
Sample Type: U



Applied Pressure kPa	Voids ratio	Mv m2/MN	Cv (t50, log) m2/yr	Cv (t90, root) m2/yr	Csec
0	0.777	-	-	-	-
40	0.764	0.18	N/A	N/A	N/A
80	0.758	0.089	14	10	0.000036
160	0.734	0.17	3	3.5	0.0013
320	0.684	0.18	1.2	2.4	0.0019
640	0.623	0.11	0.37	0.9	0.00064
160	0.654	0.041			
320	0.645	0.037	0.44	0.57	0.00069

Preparation Carried out on bottom of U100

Index tests  
Orientation of the sample  
Particle density  
Liquid limit  
Plastic limit

Vertical		
assumed	2.65	Mg/m3
N/A		%
N/A		%

Specimen details

Diameter  
Height  
Moisture Content  
Bulk density  
Dry density  
Voids Ratio  
Saturation  
Avg. temperature for test  
Swelling Pressure  
Settlement on saturation  
Total test time

Initial	Final	
50.09	-	mm
20.03	18.54	mm
28	27	%
1.91	2.04	Mg/m3
1.49	1.61	Mg/m3
0.777	0.645	
97	110	%
22.0		°C
Not measured		kPa
		%
6		days

Note: Cv corrected to 20°C

Remarks: Stage 1 - swelling

Signed:



Katarzyna Koziel  
Reporting Specialist  
for and on behalf of i2 Analytical Ltd

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**Nathan Thompson**  
Hydrock Consultants Ltd  
2-4 Hawthorne Park  
Holdenby Road  
Spratton  
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NN6 8LD

t: 01604842888  
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i2 Analytical Ltd.  
7 Woodshots Meadow,  
Croxley Green  
Business Park,  
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Herts,  
WD18 8YS

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e: reception@i2analytical.com

## **Analytical Report Number : 23-18753**

<b>Project / Site name:</b>	Begbroke	<b>Samples received on:</b>	17/02/2023
<b>Your job number:</b>	19114	<b>Samples instructed on/ Analysis started on:</b>	17/02/2023
<b>Your order number:</b>	PO24161	<b>Analysis completed by:</b>	06/03/2023
<b>Report Issue Number:</b>	1	<b>Report issued on:</b>	06/03/2023
<b>Samples Analysed:</b>	20 soil samples		

**Signed:** 

Izabela Wójcik  
Reporting Specialist  
**For & on behalf of i2 Analytical Ltd.**

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41-711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting

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Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement. Application of uncertainty of measurement would provide a range within which the true result lies. An estimate of measurement uncertainty can be provided on request.



Analytical Report Number: 23-18753  
 Project / Site name: Begbroke  
 Your Order No: PO24161

Lab Sample Number	2592896	2592897	2592898	2592899	2592900			
Sample Reference	TP315	TP315	TP316	TP317	RO301			
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied			
Depth (m)	0.40-0.70	1.00-1.40	1.00-1.40	0.30-0.50	1.00-1.50			
Date Sampled	02/02/2023	02/02/2023	02/02/2023	02/02/2023	07/02/2023			
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied			
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	50
Moisture Content	%	0.01	NONE	17	7.5	7.5	13	8.6
Total mass of sample received	kg	0.001	NONE	0.5	0.5	0.4	0.4	0.3

#### General Inorganics

pH - Automated	pH Units	N/A	MCERTS	8.1	8.2	8.1	8	7.9
Total Sulphate as SO4	mg/kg	50	MCERTS	220	310	370	210	570
Total Sulphate as SO4	%	0.005	MCERTS	0.022	0.031	0.037	0.021	0.057
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.023	0.0087	0.013	0.024	0.011
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	23.3	8.7	13.3	24.2	11
Water Soluble Chloride (2:1)	mg/kg	1	MCERTS	2.7	6.8	7	5.9	3.2
Water Soluble Chloride (2:1) (leachate equivalent)	mg/l	0.5	MCERTS	1.3	3.4	3.5	3	1.6
Total Sulphur	mg/kg	50	MCERTS	140	210	320	270	320
Total Sulphur	%	0.005	MCERTS	0.014	0.021	0.032	0.027	0.032
Ammoniacal Nitrogen as NH4	mg/kg	0.5	MCERTS	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Ammonium as NH4 (10:1 leachate equivalent)	mg/l	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Water Soluble Nitrate (2:1) as NO3	mg/kg	2	NONE	8.5	2.9	2	3.5	3.8
Water Soluble Nitrate (2:1) as NO3 (leachate equivalent)	mg/l	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0

#### Heavy Metals / Metalloids

Magnesium (water soluble)	mg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Magnesium (leachate equivalent)	mg/l	2.5	NONE	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 23-18753  
 Project / Site name: Begbroke  
 Your Order No: PO24161

Lab Sample Number	2592901	2592902	2592903	2592904	2592905			
Sample Reference	RO305	RO305	RO305	RO305	RO305			
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied			
Depth (m)	4.00-4.50	8.70	11.60	12.70	16.50			
Date Sampled	31/01/2023	31/01/2023	31/01/2023	31/01/2023	31/01/2023			
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied			
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	9.9	17	14	16	17
Total mass of sample received	kg	0.001	NONE	0.3	0.4	0.4	0.4	0.4

#### General Inorganics

pH - Automated	pH Units	N/A	MCERTS	8.1	9	8.2	8.8	9.2
Total Sulphate as SO4	mg/kg	50	MCERTS	640	1100##	1800	1200	1600
Total Sulphate as SO4	%	0.005	MCERTS	0.064	0.108##	0.181	0.116	0.162
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.062	0.99##	0.8	0.68	0.7
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	61.9	988##	802	684	698
Water Soluble Chloride (2:1)	mg/kg	1	MCERTS	12	130	130	92	190
Water Soluble Chloride (2:1) (leachate equivalent)	mg/l	0.5	MCERTS	6.2	63	65	46	97
Total Sulphur	mg/kg	50	MCERTS	7600	23000	17000	9900	55000
Total Sulphur	%	0.005	MCERTS	0.763	2.35	1.66	0.993	5.47
Ammoniacal Nitrogen as NH4	mg/kg	0.5	MCERTS	5.7	8.6	5.9	5.1	8.8
Ammonium as NH4 (10:1 leachate equivalent)	mg/l	0.05	MCERTS	0.57	0.86	0.59	0.51	0.88
Water Soluble Nitrate (2:1) as NO3	mg/kg	2	NONE	2.2	< 2.0	< 2.0	< 2.0	14
Water Soluble Nitrate (2:1) as NO3 (leachate equivalent)	mg/l	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	7.1

#### Heavy Metals / Metalloids

Magnesium (water soluble)	mg/kg	5	NONE	7	30	30	23	11
Magnesium (leachate equivalent)	mg/l	2.5	NONE	3.5	15	15	11	5.3

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 23-18753  
 Project / Site name: Begbroke  
 Your Order No: PO24161

Lab Sample Number	2592906	2592907	2592908	2592909	2592910			
Sample Reference	TP302	TP307	TP307	TP308	RO301			
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied			
Depth (m)	0.80-1.00	1.20-1.50	2.20-2.40	1.30-1.70	8.00-8.00			
Date Sampled	31/01/2023	06/02/2023	06/02/2023	06/02/2023	07/02/2023			
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied			
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	15	11	12	14	17
Total mass of sample received	kg	0.001	NONE	0.4	0.4	0.4	0.4	0.4

#### General Inorganics

pH - Automated	pH Units	N/A	MCERTS	7.7	8.4	8.2	8.1	9.1
Total Sulphate as SO <sub>4</sub>	mg/kg	50	MCERTS	80	120	310	320	1200
Total Sulphate as SO <sub>4</sub>	%	0.005	MCERTS	0.008	0.012	0.031	0.032	0.122
Water Soluble SO <sub>4</sub> 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.0081	0.0026	0.01	0.016	0.73
Water Soluble SO <sub>4</sub> 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	8.1	2.6	10.4	15.6	727
Water Soluble Chloride (2:1)	mg/kg	1	MCERTS	1.8	1.6	1.5	3.1	120
Water Soluble Chloride (2:1) (leachate equivalent)	mg/l	0.5	MCERTS	0.9	0.8	0.8	1.5	59
Total Sulphur	mg/kg	50	MCERTS	480	92	200	240	5800
Total Sulphur	%	0.005	MCERTS	0.048	0.009	0.02	0.024	0.58
Ammoniacal Nitrogen as NH <sub>4</sub>	mg/kg	0.5	MCERTS	< 0.5	< 0.5	< 0.5	< 0.5	11
Ammonium as NH <sub>4</sub> (10:1 leachate equivalent)	mg/l	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	1.06
Water Soluble Nitrate (2:1) as NO <sub>3</sub>	mg/kg	2	NONE	2.5	< 2.0	< 2.0	2.3	< 2.0
Water Soluble Nitrate (2:1) as NO <sub>3</sub> (leachate equivalent)	mg/l	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0

#### Heavy Metals / Metalloids

Magnesium (water soluble)	mg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	10
Magnesium (leachate equivalent)	mg/l	2.5	NONE	< 2.5	< 2.5	< 2.5	< 2.5	5.1

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 23-18753  
 Project / Site name: Begbroke  
 Your Order No: PO24161

Lab Sample Number	2592911	2592912	2592913	2592914	2592915			
Sample Reference	RO301	RO301	RO303	RO304	RO304			
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied			
Depth (m)	11.90	5.00-5.13	8.00-8.21	16.30-16.50	19.70-19.80			
Date Sampled	07/02/2023	16/02/2023	16/02/2023	16/02/2023	16/02/2023			
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied			
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	15	2.2	3.4	3.3	1.8
Total mass of sample received	kg	0.001	NONE	0.4	0.4	0.2	0.4	0.4

#### General Inorganics

pH - Automated	pH Units	N/A	MCERTS	8.6	7.8	7.8	8.1	8
Total Sulphate as SO4	mg/kg	50	MCERTS	2100	1700	3200	2800	3000
Total Sulphate as SO4	%	0.005	MCERTS	0.21	0.174	0.323	0.284	0.301
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.97	0.61	1.2	0.85	0.91
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	967	610	1180	851	906
Water Soluble Chloride (2:1)	mg/kg	1	MCERTS	130	110	210	190	220
Water Soluble Chloride (2:1) (leachate equivalent)	mg/l	0.5	MCERTS	64	55	100	93	110
Total Sulphur	mg/kg	50	MCERTS	12000	11000	13000	4100	4600
Total Sulphur	%	0.005	MCERTS	1.18	1.06	1.25	0.407	0.456
Ammoniacal Nitrogen as NH4	mg/kg	0.5	MCERTS	7.1	< 0.5	1.7	3.7	1.2
Ammonium as NH4 (10:1 leachate equivalent)	mg/l	0.05	MCERTS	0.71	< 0.05	0.17	0.37	0.12
Water Soluble Nitrate (2:1) as NO3	mg/kg	2	NONE	< 2.0	< 2.0	< 2.0	4.7	< 2.0
Water Soluble Nitrate (2:1) as NO3 (leachate equivalent)	mg/l	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0

#### Heavy Metals / Metalloids

Magnesium (water soluble)	mg/kg	5	NONE	39	21	49	33	31
Magnesium (leachate equivalent)	mg/l	2.5	NONE	20	11	25	17	15

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

**Analytical Report Number : 23-18753**  
**Project / Site name: Begbroke**

\* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
2592896	TP315	None Supplied	0.40-0.70	Brown clay and sand with gravel.
2592897	TP315	None Supplied	1.00-1.40	Brown sand with gravel.
2592898	TP316	None Supplied	1.00-1.40	Brown sand with gravel.
2592899	TP317	None Supplied	0.30-0.50	Brown clay and sand.
2592900	RO301	None Supplied	1.00-1.50	Brown gravelly sand with stones.
2592901	RO305	None Supplied	4.00-4.50	Brown clay and sand with gravel.
2592902	RO305	None Supplied	8.7	Brown clay.
2592903	RO305	None Supplied	11.6	Brown clay and sand.
2592904	RO305	None Supplied	12.7	Brown clay and sand.
2592905	RO305	None Supplied	16.5	Brown clay and sand with vegetation.
2592906	TP302	None Supplied	0.80-1.00	Brown sandy clay with gravel.
2592907	TP307	None Supplied	1.20-1.50	Brown sandy clay with gravel.
2592908	TP307	None Supplied	2.20-2.40	Brown clay and sand with gravel.
2592909	TP308	None Supplied	1.30-1.70	Brown clay and sand with gravel.
2592910	RO301	None Supplied	8.00-8.00	Brown clay.
2592911	RO301	None Supplied	11.9	Brown clay and sand.
2592912	RO301	None Supplied	5.00-5.13	Non Soil#
2592913	RO303	None Supplied	8.00-8.21	Non Soil#
2592914	RO304	None Supplied	16.30-16.50	Non Soil#
2592915	RO304	None Supplied	19.70-19.80	Non Soil#

Analytical Report Number : 23-18753  
Project / Site name: Begbroke

**Water matrix abbreviations:**

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Sulphate, water soluble, in soil (16hr extraction)	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In house method.	L038-PL	D	MCERTS
Chloride, water soluble, in soil	Determination of Chloride colorimetrically by discrete analyser.	In house method.	L082-PL	D	MCERTS
Magnesium, water soluble, in soil	Determination of water soluble magnesium by extraction with water followed by ICP-OES.	In-house method based on TRL 447	L038-PL	D	NONE
Moisture Content	Moisture content, determined gravimetrically. (30 oC)	In house method.	L019-UK/PL	W	NONE
Nitrate, water soluble, in soil	Determination of nitrate by reaction with sodium salicylate and colorimetry.	In-house method based on Examination of Water and Wastewater & Polish Standard Method PN-82/C-04579.08, 2:1 extraction.	L078-PL	D	NONE
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement.	In house method.	L099-PL	D	MCERTS
Total sulphate (as SO4 in soil)	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES.	In house method.	L038-PL	D	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Total Sulphur in soil	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES.	In house method.	L038-PL	D	MCERTS
Ammonium as NH4 in soil	Determination of Ammonium/Ammonia/ Ammoniacal Nitrogen by the colorimetric salicylate/nitroprusside method, 10:1 water extraction.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L082-PL	W	MCERTS
Total Sulphate in soil as %	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES.	In house method.	L038-PL	D	MCERTS
Total Sulphur in soil as %	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES.	In house method.	L038-PL	D	MCERTS
Water Soluble Nitrate (leachate equivalent)	Determination of nitrate by reaction with sodium salicylate and colorimetry.	In-house method based on Examination of Water and Wastewater & Polish Standard Method PN-82/C-04579.08, 2:1 extraction.	L078-PL	D	NONE
Sulphate, water soluble, in soil	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In house method.	L038-PL	D	MCERTS

**For method numbers ending in 'UK or A' analysis have been carried out in our laboratory in the United Kingdom (WATFORD).**

**For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).**

**For method numbers ending in 'PL or B' analysis have been carried out in our laboratory in Poland.**

**Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.**

**Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.**



**Analytical Report Number : 23-18753**  
**Project / Site name: Begbroke**

**Water matrix abbreviations:**

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
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#Unaccredited sample matrix.

##Despite repeating Total Sulphate and Water Soluble Sulphate analysis, the results remain contradictory.

## *Geotechnical Plots*

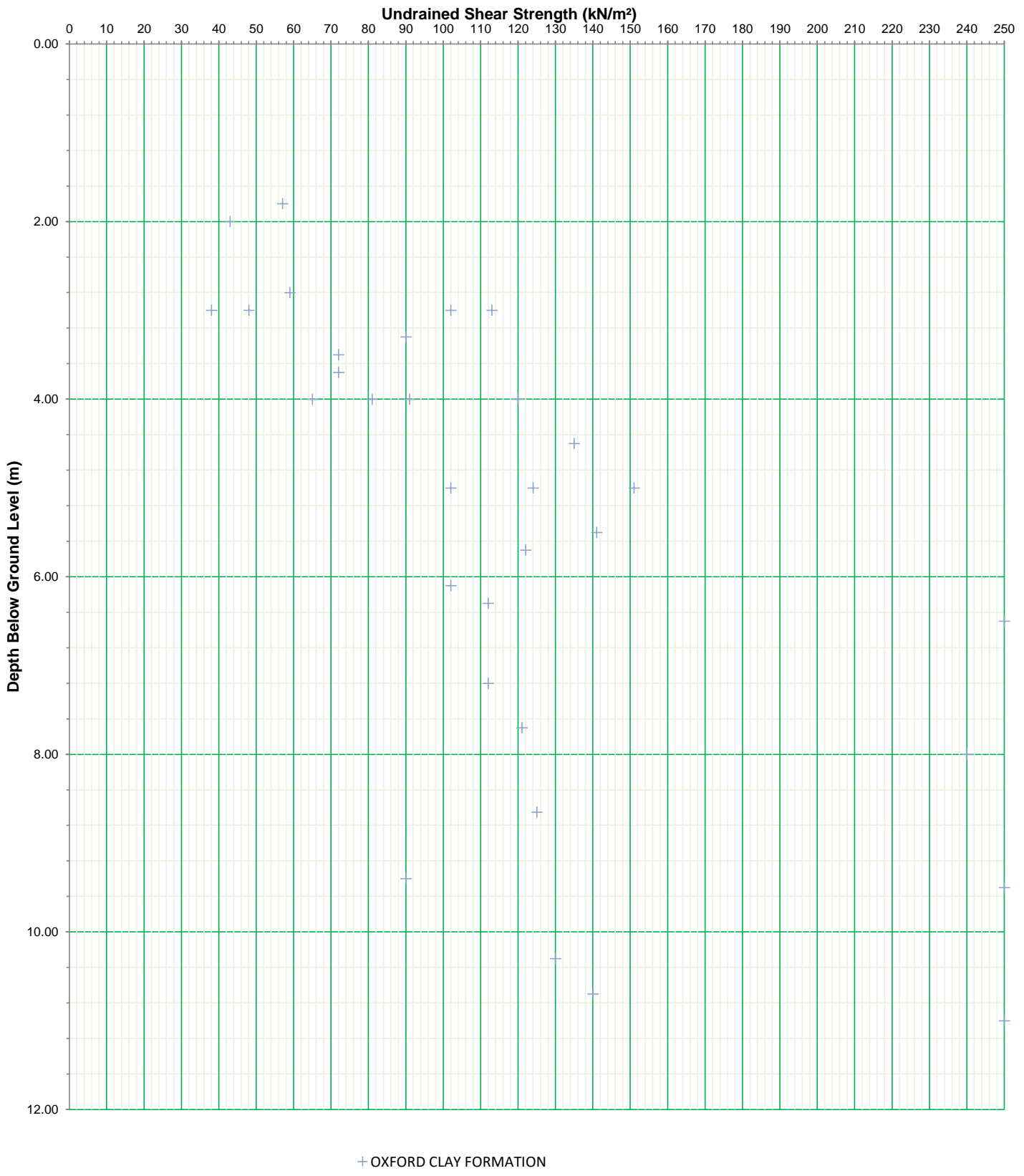


# UNDRAINED SHEAR STRENGTH vs DEPTH ( Oxford Clay)

**Site:**  
Begbroke

**Client:**  
Oxford University Development

<b>Contract No.</b>	C-19114-C
<b>Hand Shear Vane</b>	

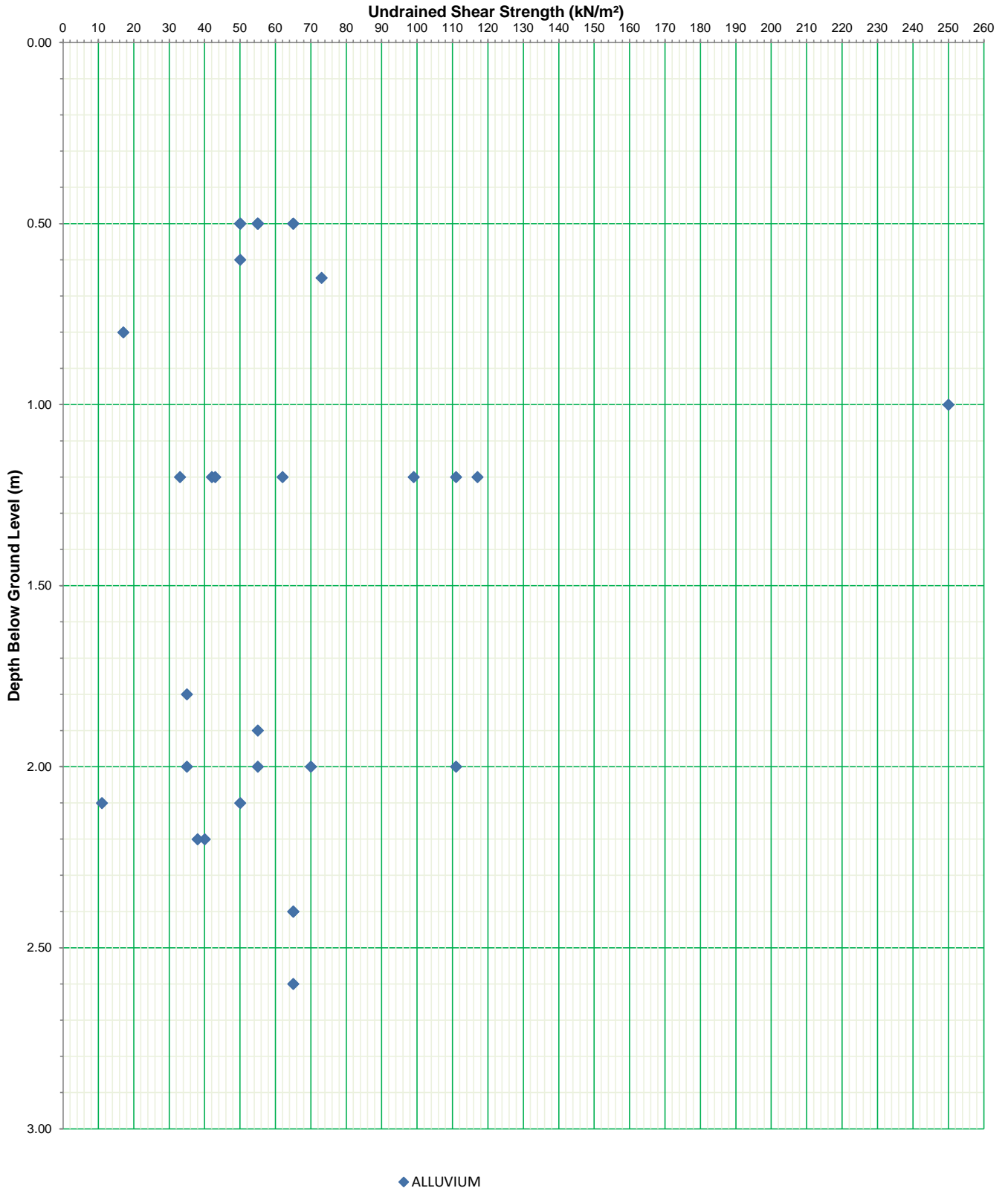


# UNDRAINED SHEAR STRENGTH vs DEPTH. HSV & Correlated N60 Alluvium

Site:  
Begbroke

Oxford University Development

Contract No.	C-19114-C
Hand Shear Vane	

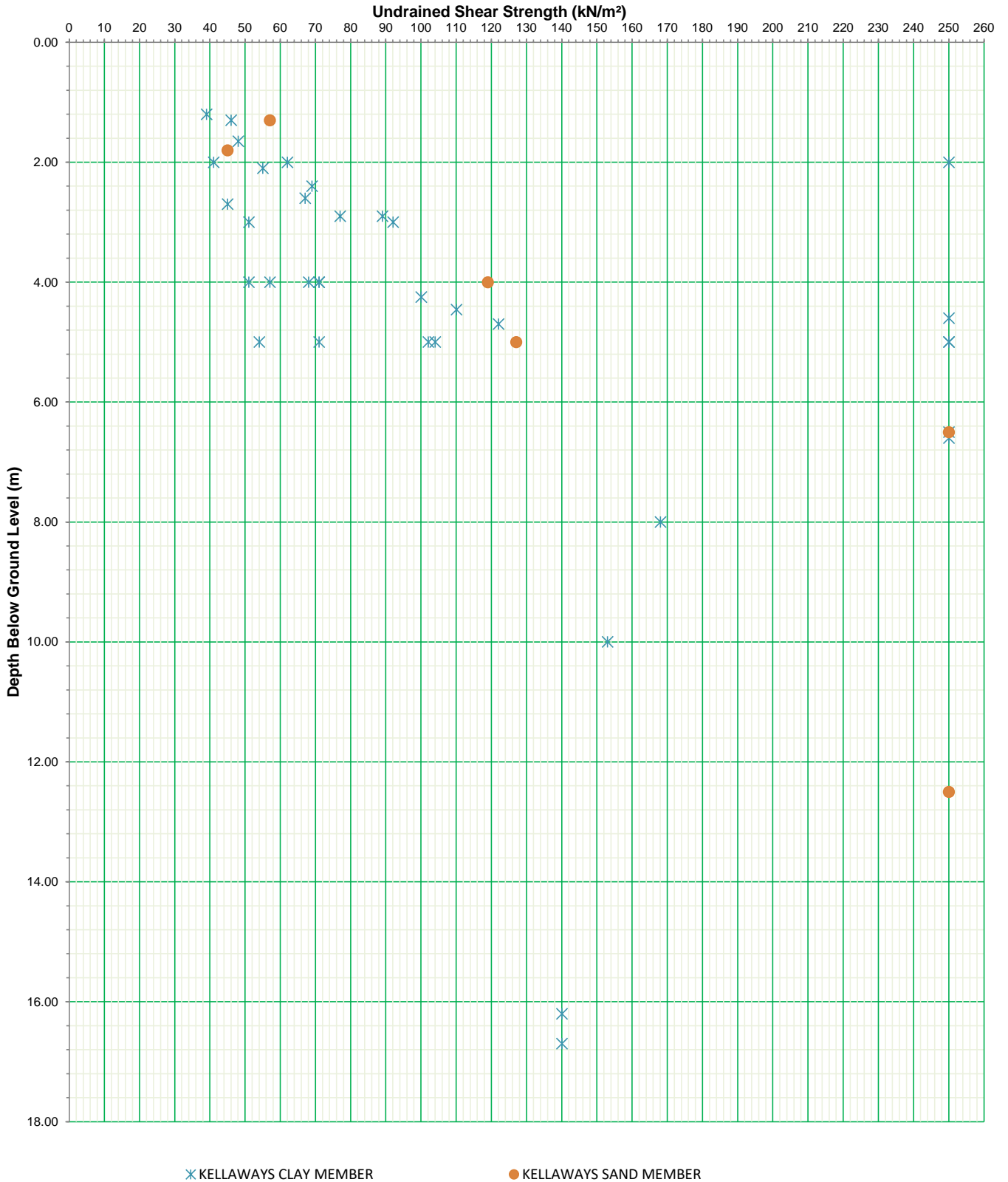


# UNDRAINED SHEAR STRENGTH vs DEPTH. HSV & Correlated N60 Alluvium

Site:  
Begbroke

Oxford University Development

Contract No.	C-19114-C
Hand Shear Vane	

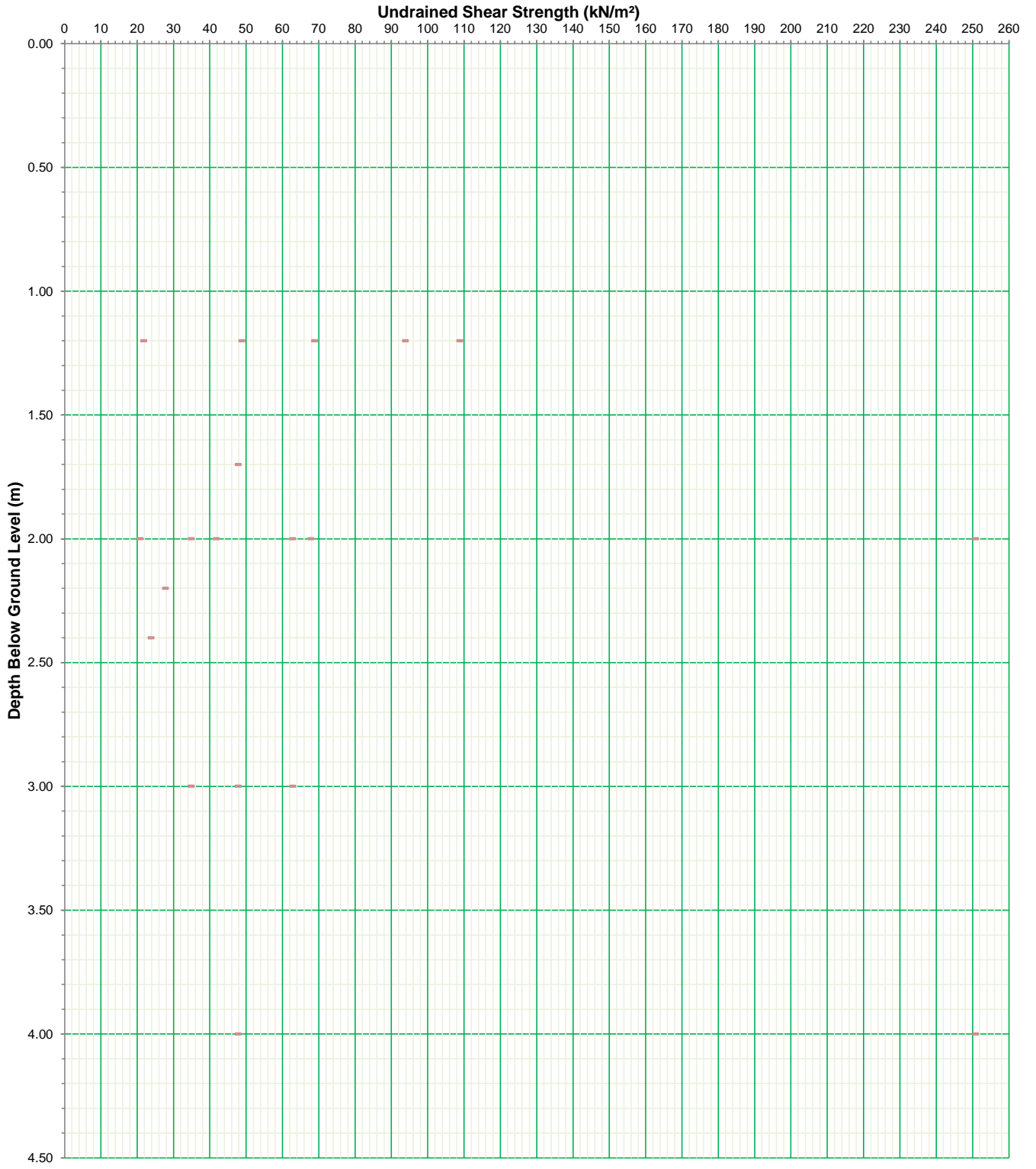


**UNDRAINED SHEAR STRENGTH  
vs DEPTH. HSV & Correlated N60  
Alluvium**

Site:  
Begbroke

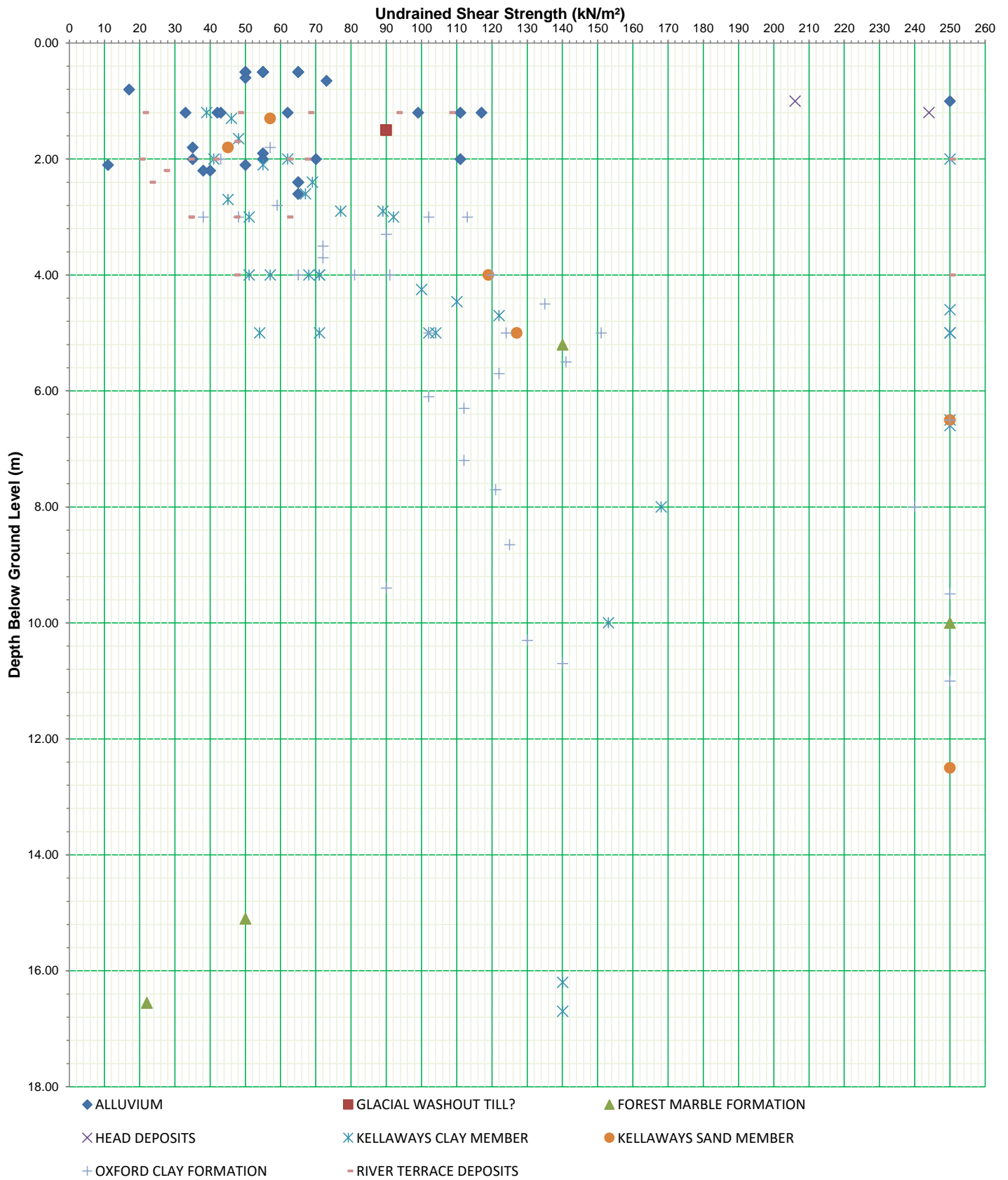
Oxford University Development

Contract No.	C-19114-C
Hand Shear Vane	

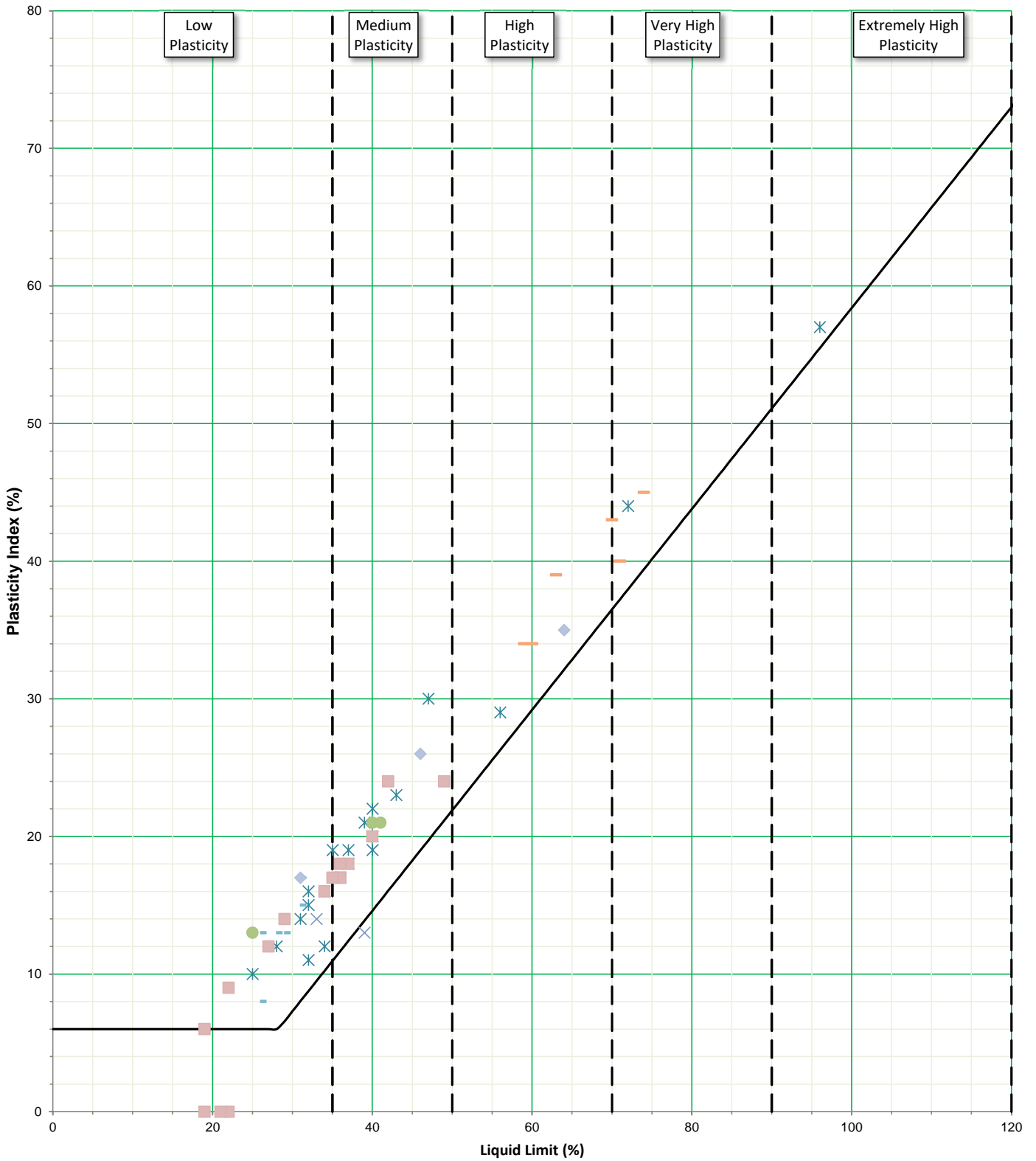


- RIVER TERRACE DEPOSITS

Site: Begbroke	Client: Oxford University Development	Contract No. Hand Shear Vane	C-19114-C
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Site: Begbroke	Client: Oxford University Development	Contract No. C-19114-C
		All Data

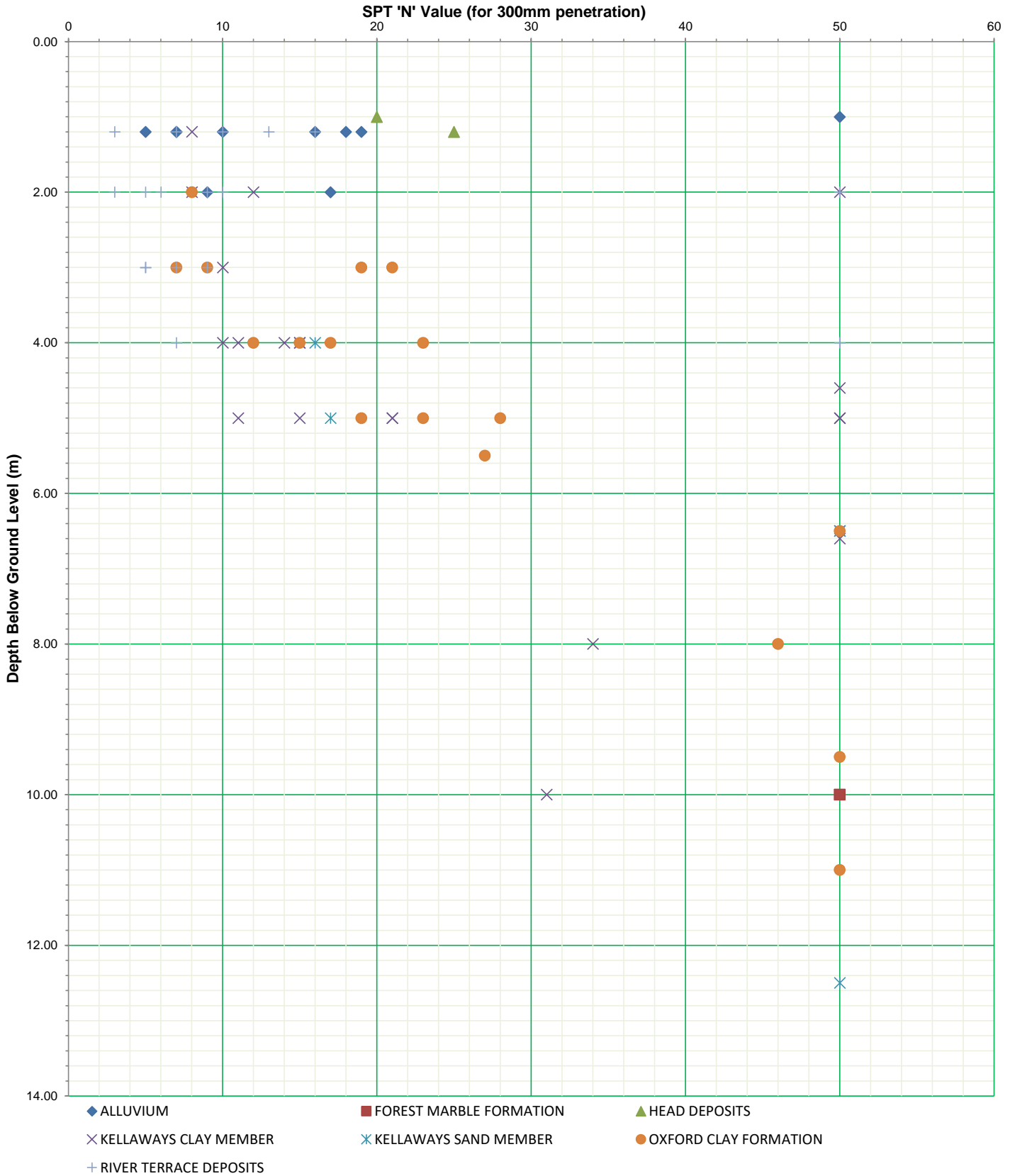


- ✕ ALLUVIUM
- ✕ GLACIAL WASHOUT TILL?
- KELLAWAYS CLAY MEMBER
- ▲ CORNBRAsh LIMESTONE FORMATION
- HEAD DEPOSITS
- ◆ OXFORD CLAY FORMATION
- ✕ FOREST MARBLE FORMATION
- KELLAWAYS SAND MEMBER
- RIVER TERRACE DEPOSITS

Site: Begbroke

Client: Oxford University Development

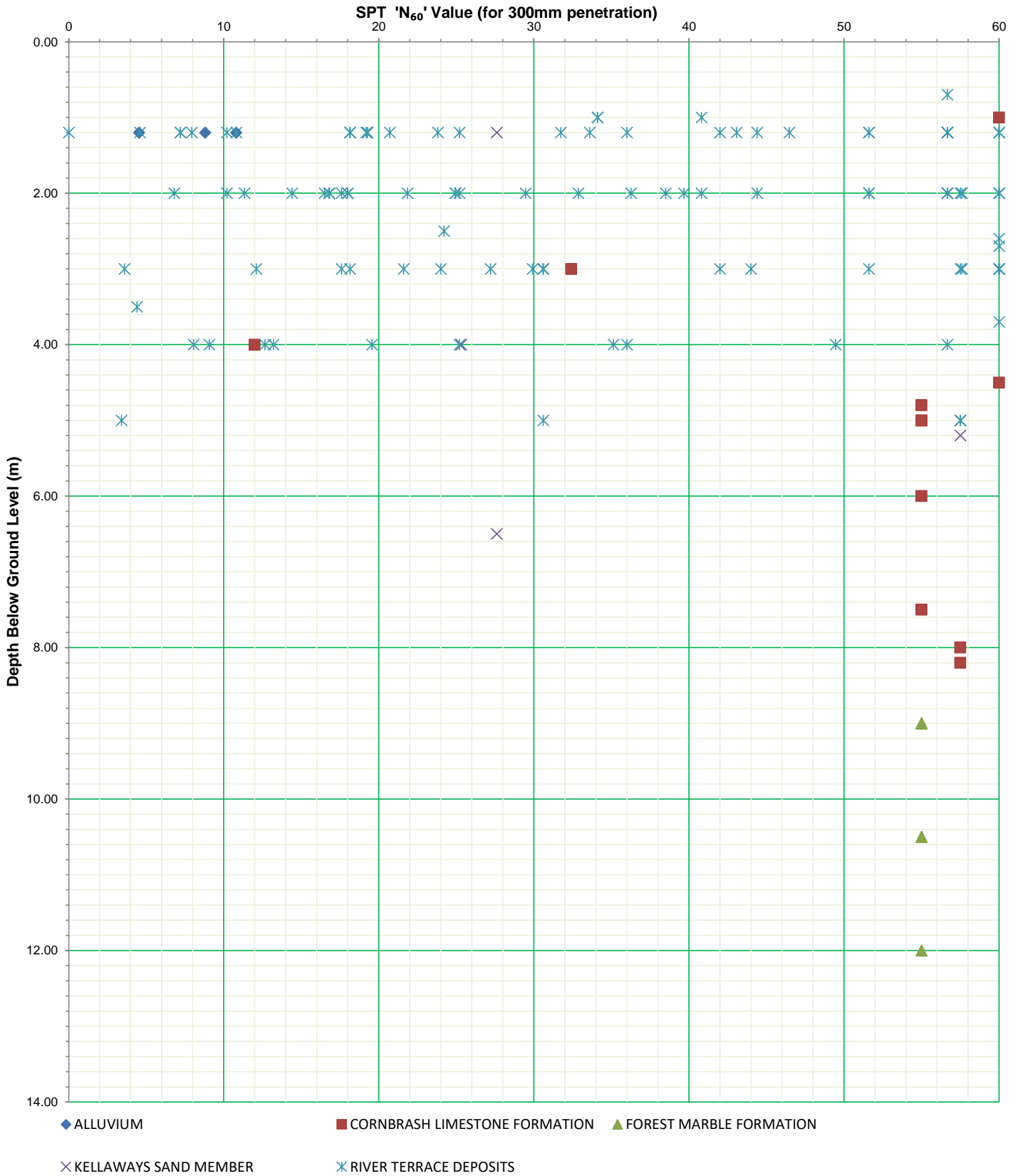
Contract No. C-19114-C  
All Data



Site:  
Begbroke

Client:  
Oxford University Development

Contract No. C-19114-C  
All Data



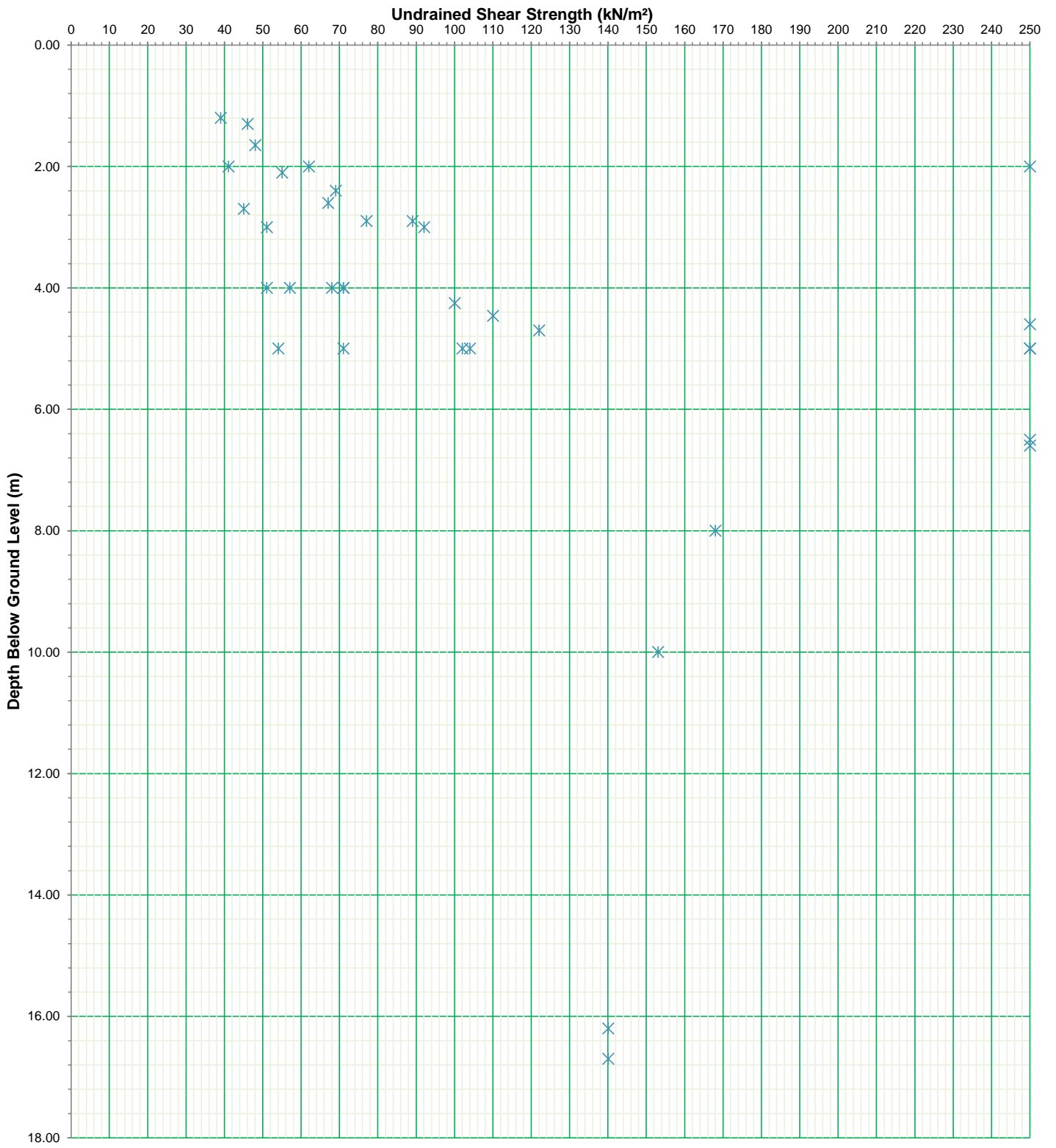


# UNDRAINED SHEAR STRENGTH vs DEPTH ( Kellaways Clay)

Site:  
Begbroke

Client:  
Oxford University Development

Contract No.	C-19114-C
Hand Shear Vane	



\* KELLAWAYS CLAY MEMBER

<b>Client</b> Oxford University Developments Ltd	<b>Location or material to which this assessment applies</b> White Limestone Formation		
<b>Project</b> Begbroke			
<b>Job numb</b> 19114			
<b>Concrete in aggressive ground</b>		After BRE Special Digest 1, 2005	
<b>Soil data</b>			
	(Adjusted) water soluble sulfate (mg/l)	Total potential sulfate (%)	Water soluble magnesium (mg/l)
Number of tests	1	1	0
No. tests in 20% data set	0	0	
No. tests with suspected pyrite		1	
Maximum value	906	1.4	
Mean of highest two values	906	1	
Mean of highest 20%			
<b>Characteristic Value</b>	<b>906</b>	<b>1.4</b>	
	<b>[no pyrite]</b>	<b>[pyrite suspected]</b>	
<b>DS Class</b>	<b>DS-2</b>	<b>DS-4</b>	
<b>If pyrite suspected, DS Class limited to</b>		<b>DS-4</b>	
<b>Is pyrite assumed to be present?</b>	<b>Yes</b>	<b>Adopted DS Class =</b>	<b>DS-4</b>
<b>Water data</b>			
	(Adjusted) soluble sulfate (mg/l)	Soluble magnesium (mg/l)	
<b>Characteristic Value (Maximum Level)</b>	0	0	
<b>DS Class</b>			
<b>pH data</b>			
	Soil	Water	
Number of tests	1	0	
No. tests in 20% data set	0		
Lowest pH	8.0		
Mean of lowest 20%			
<b>Characteristic value</b>	<b>8.0</b>		
<b>Design value</b>	<b>8.0</b>		
Number of soil pH results less than 5.5	0		
<b>DS Class design value</b>	<b>ACEC Class design value</b>		
<b>Based on higher of soil and water data</b>	<b>DS-4</b>	Natural ground	
		Mobile groundwater	<b>AC-4</b>

<b>Client</b> Oxford University Developments Ltd	<b>Location or material to which this assessment applies</b> Alluvium
<b>Project</b> Begbroke	
<b>Job numb</b> 19114	

## Concrete in aggressive ground

After BRE Special Digest 1, 2005

### Soil data

	(Adjusted) water soluble sulfate (mg/l)	Total potential sulfate (%)	Water soluble magnesium (mg/l)
Number of tests	8	8	0
No. tests in 20% data set	2	2	
No. tests with suspected pyrite		0	
Maximum value	322	0.3	
Mean of highest two values	262	0	
Mean of highest 20%			
<b>Characteristic Value</b>	<b>262</b>	<b>0</b>	

	[no pyrite]	[pyrite suspected]
<b>DS Class</b>	<b>DS-1</b>	<b>DS-1</b>

If pyrite suspected, DS Class limited to DS-1

Is pyrite assumed to be present? **No** Adopted DS Class = DS-1

### Water data

	(Adjusted) soluble sulfate (mg/l)	Soluble magnesium (mg/l)
<b>Characteristic Value (Maximum Level)</b>	0	0
<b>DS Class</b>		

### pH data

	Soil	Water
Number of tests	8	0
No. tests in 20% data set	2	
Lowest pH	7.6	
Mean of lowest 20%	7.6	
<b>Characteristic value</b>	<b>7.6</b>	

**Design value** 7.6

Number of soil pH results less than 5.5 0

### DS Class design value

Based on higher of soil and water data

### ACEC Class design value

Natural ground DS-1  
Mobile groundwater AC-1 \*

\* increase to AC-2z in flowing water (pure or with >15mg/l carbon dioxide)

<b>Client</b> Oxford University Developments Ltd	<b>Location or material to which this assessment applies</b> Cornbrash Limestone Formation
<b>Project</b> Begbroke	
<b>Job numb</b> 19114	

**Concrete in aggressive ground** After BRE Special Digest 1, 2005

**Soil data**

	(Adjusted) water soluble sulfate (mg/l)	Total potential sulfate (%)	Water soluble magnesium (mg/l)
Number of tests	2	2	0
No. tests in 20% data set	0	0	
No. tests with suspected pyrite		1	
Maximum value	610	3.2	
Mean of highest two values	309	2	
Mean of highest 20%			
<b>Characteristic Value</b>	<b>610</b>	<b>3.2</b>	

	[no pyrite]	[pyrite suspected]
<b>DS Class</b>	<b>DS-2</b>	<b>DS-5</b>

If pyrite suspected, DS Class limited to DS-4

Is pyrite assumed to be present? **No** Adopted DS Class = DS-2

**Water data**

	(Adjusted) soluble sulfate (mg/l)	Soluble magnesium (mg/l)
<b>Characteristic Value (Maximum Level)</b>	0	0
<b>DS Class</b>		

**pH data**

	Soil	Water
Number of tests	2	0
No. tests in 20% data set	0	
Lowest pH	7.8	
Mean of lowest 20%		
<b>Characteristic value</b>	<b>7.8</b>	

**Design value** 7.8

Number of soil pH results less than 5.5 0

**DS Class design value**

**ACEC Class design value**

Based on higher of soil and water data

DS-2

Natural ground

Mobile groundwater

AC-2

<b>Client</b> Oxford University Developments Ltd	<b>Location or material to which this assessment applies</b> Forest Marble Formation
<b>Project</b> Begbroke	
<b>Job numb</b> 19114	

## Concrete in aggressive ground

After BRE Special Digest 1, 2005

### Soil data

	(Adjusted) water soluble sulfate (mg/l)	Total potential sulfate (%)	Water soluble magnesium (mg/l)
Number of tests	4	4	0
No. tests in 20% data set	1	1	
No. tests with suspected pyrite		4	
Maximum value	1180	3.8	
Mean of highest two values	1074	4	
Mean of highest 20%			
<b>Characteristic Value</b>	<b>1180</b>	<b>3.8</b>	

	[no pyrite]	[pyrite suspected]
<b>DS Class</b>	<b>DS-2</b>	<b>DS-5</b>

If pyrite suspected, DS Class limited to DS-4

Is pyrite assumed to be present? **Yes** Adopted DS Class = DS-4

### Water data

	(Adjusted) soluble sulfate (mg/l)	Soluble magnesium (mg/l)
<b>Characteristic Value</b> (Maximum Level)	0	0
<b>DS Class</b>		

### pH data

	Soil	Water
Number of tests	4	0
No. tests in 20% data set	1	
Lowest pH	7.8	
Mean of lowest 20%	7.8	
<b>Characteristic value</b>	<b>7.8</b>	

**Design value** 7.8

Number of soil pH results less than 5.5 0

### DS Class design value

Based on higher of soil and water data

### ACEC Class design value

Natural ground DS-4  
Mobile groundwater AC-4

<b>Client</b> Oxford University Developments Ltd	<b>Location or material to which this assessment applies</b> Glacial Washout Till
<b>Project</b> Begbroke	
<b>Job numb</b> 19114	

## Concrete in aggressive ground

After BRE Special Digest 1, 2005

### Soil data

	(Adjusted) water soluble sulfate (mg/l)	Total potential sulfate (%)	Water soluble magnesium (mg/l)
Number of tests	1	1	0
No. tests in 20% data set	0	0	
No. tests with suspected pyrite		0	
Maximum value	15.6	0.1	
Mean of highest two values	16	0	
Mean of highest 20%			
<b>Characteristic Value</b>	<b>15.6</b>	<b>0.1</b>	

	[no pyrite]	[pyrite suspected]
<b>DS Class</b>	<b>DS-1</b>	<b>DS-1</b>

If pyrite suspected, DS Class limited to DS-1

Is pyrite assumed to be present? **Yes** Adopted DS Class = DS-1

### Water data

	(Adjusted) soluble sulfate (mg/l)	Soluble magnesium (mg/l)
<b>Characteristic Value (Maximum Level)</b>	0	0
<b>DS Class</b>		

### pH data

	Soil	Water
Number of tests	1	0
No. tests in 20% data set	0	
Lowest pH	8.1	
Mean of lowest 20%		
<b>Characteristic value</b>	<b>8.1</b>	

**Design value** 8.1

Number of soil pH results less than 5.5 0

### DS Class design value

Based on higher of soil and water data

### ACEC Class design value

Natural ground DS-1  
Mobile groundwater AC-1 \*

\* increase to AC-2z in flowing water (pure or with >15mg/l carbon dioxide)

<b>Client</b> Oxford University Developments Ltd	<b>Location or material to which this assessment applies</b> Head Deposits
<b>Project</b> Begbroke	
<b>Job numb</b> 19114	

## Concrete in aggressive ground

After BRE Special Digest 1, 2005

### Soil data

	(Adjusted) water soluble sulfate (mg/l)	Total potential sulfate (%)	Water soluble magnesium (mg/l)
Number of tests	2	2	0
No. tests in 20% data set	0	0	
No. tests with suspected pyrite		0	
Maximum value	10.6	0.1	
Mean of highest two values	10	0	
Mean of highest 20%			
<b>Characteristic Value</b>	<b>10.6</b>	<b>0.1</b>	

	[no pyrite]	[pyrite suspected]
<b>DS Class</b>	<b>DS-1</b>	<b>DS-1</b>

If pyrite suspected, DS Class limited to DS-1

Is pyrite assumed to be present? **No** Adopted DS Class = DS-1

### Water data

	(Adjusted) soluble sulfate (mg/l)	Soluble magnesium (mg/l)
<b>Characteristic Value (Maximum Level)</b>	0	0
<b>DS Class</b>		

### pH data

	Soil	Water
Number of tests	2	0
No. tests in 20% data set	0	
Lowest pH	7.2	
Mean of lowest 20%		
<b>Characteristic value</b>	<b>7.2</b>	

**Design value** 7.2

Number of soil pH results less than 5.5 0

### DS Class design value

Based on higher of soil and water data

### ACEC Class design value

Natural ground DS-1  
Mobile groundwater AC-1 \*

\* increase to AC-2z in flowing water (pure or with >15mg/l carbon dioxide)

<b>Client</b> Oxford University Developments Ltd	<b>Location or material to which this assessment applies</b> Kellaways Clay
<b>Project</b> Begbroke	
<b>Job numb</b> 19114	

## Concrete in aggressive ground

After BRE Special Digest 1, 2005

### Soil data

	(Adjusted) water soluble sulfate (mg/l)	Total potential sulfate (%)	Water soluble magnesium (mg/l)
Number of tests	5	5	0
No. tests in 20% data set	1	1	
No. tests with suspected pyrite		3	
Maximum value	3070	16.4	
Mean of highest two values	1884	15	
Mean of highest 20%			
<b>Characteristic Value</b>	<b>1884</b>	<b>15</b>	

	[no pyrite]	[pyrite suspected]
<b>DS Class</b>	<b>DS-3</b>	<b>DS-5</b>

If pyrite suspected, DS Class limited to DS-4

Is pyrite assumed to be present? **Yes** Adopted DS Class = DS-4

### Water data

	(Adjusted) soluble sulfate (mg/l)	Soluble magnesium (mg/l)
<b>Characteristic Value (Maximum Level)</b>	0	0
<b>DS Class</b>		

### pH data

	Soil	Water
Number of tests	5	0
No. tests in 20% data set	1	
Lowest pH	7.3	
Mean of lowest 20%	7.3	
<b>Characteristic value</b>	<b>7.3</b>	

**Design value** 7.3

Number of soil pH results less than 5.5 0

### DS Class design value

Based on higher of soil and water data

### ACEC Class design value

Natural ground DS-4  
Mobile groundwater AC-4



<b>Client</b> Oxford University Developments Ltd	<b>Location or material to which this assessment applies</b> Kellaways Sand
<b>Project</b> Begbroke	
<b>Job numb</b> 19114	

## Concrete in aggressive ground

After BRE Special Digest 1, 2005

### Soil data

	(Adjusted) water soluble sulfate (mg/l)	Total potential sulfate (%)	Water soluble magnesium (mg/l)
Number of tests	5	5	0
No. tests in 20% data set	1	1	
No. tests with suspected pyrite		3	
Maximum value	802	5	
Mean of highest two values	743	4	
Mean of highest 20%			
<b>Characteristic Value</b>	<b>743</b>	<b>4</b>	

	[no pyrite]	[pyrite suspected]
<b>DS Class</b>	<b>DS-2</b>	<b>DS-5</b>

If pyrite suspected, DS Class limited to DS-4

Is pyrite assumed to be present? **Yes** Adopted DS Class = DS-4

### Water data

	(Adjusted) soluble sulfate (mg/l)	Soluble magnesium (mg/l)
<b>Characteristic Value</b> (Maximum Level)	0	0
<b>DS Class</b>		

### pH data

	Soil	Water
Number of tests	5	0
No. tests in 20% data set	1	
Lowest pH	7.5	
Mean of lowest 20%	7.5	
<b>Characteristic value</b>	<b>7.5</b>	

**Design value** 7.5

Number of soil pH results less than 5.5 0

**DS Class design value**

**ACEC Class design value**

Based on higher of soil and water data

DS-4

Natural ground

Mobile groundwater

AC-4

<b>Client</b> Oxford University Developments Ltd	<b>Location or material to which this assessment applies</b> Oxford Clay
<b>Project</b> Begbroke	
<b>Job numb</b> 19114	

## Concrete in aggressive ground

After BRE Special Digest 1, 2005

### Soil data

	(Adjusted) water soluble sulfate (mg/l)	Total potential sulfate (%)	Water soluble magnesium (mg/l)
Number of tests	2	2	0
No. tests in 20% data set	0	0	
No. tests with suspected pyrite		2	
Maximum value	3070	12.9	
Mean of highest two values	1550	7	
Mean of highest 20%			
<b>Characteristic Value</b>	<b>3070</b>	<b>12.9</b>	

	[no pyrite]	[pyrite suspected]
<b>DS Class</b>	<b>DS-3</b>	<b>DS-5</b>

If pyrite suspected, DS Class limited to DS-4

Is pyrite assumed to be present? **Yes** Adopted DS Class = DS-4

### Water data

	(Adjusted) soluble sulfate (mg/l)	Soluble magnesium (mg/l)
<b>Characteristic Value</b> (Maximum Level)	0	0
<b>DS Class</b>		

### pH data

	Soil	Water
Number of tests	2	0
No. tests in 20% data set	0	
Lowest pH	7.3	
Mean of lowest 20%		
<b>Characteristic value</b>	<b>7.3</b>	

**Design value** 7.3

Number of soil pH results less than 5.5 0

**DS Class design value**

**ACEC Class design value**

Based on higher of soil and water data

DS-4

Natural ground

Mobile groundwater

AC-4

<b>Client</b> Oxford University Developments Ltd	<b>Location or material to which this assessment applies</b> River Terrace Deposits
<b>Project</b> Begbroke	
<b>Job numb</b> 19114	

## Concrete in aggressive ground

After BRE Special Digest 1, 2005

### Soil data

	(Adjusted) water soluble sulfate (mg/l)	Total potential sulfate (%)	Water soluble magnesium (mg/l)
Number of tests	15	15	0
No. tests in 20% data set	3	3	
No. tests with suspected pyrite		0	
Maximum value	307	0.2	
Mean of highest two values	174	0	
Mean of highest 20%	100	0	
<b>Characteristic Value</b>	<b>100</b>	<b>0.1</b>	

	[no pyrite]	[pyrite suspected]
<b>DS Class</b>	<b>DS-1</b>	<b>DS-1</b>

If pyrite suspected, DS Class limited to DS-1

Is pyrite assumed to be present? **No** Adopted DS Class = DS-1

### Water data

	(Adjusted) soluble sulfate (mg/l)	Soluble magnesium (mg/l)
<b>Characteristic Value</b> (Maximum Level)	0	0
<b>DS Class</b>		

### pH data

	Soil	Water
Number of tests	15	0
No. tests in 20% data set	3	
Lowest pH	7.2	
Mean of lowest 20%	7.3	
<b>Characteristic value</b>	<b>7.3</b>	

**Design value** 7.3

Number of soil pH results less than 5.5 0

### DS Class design value

Based on higher of soil and water data

### ACEC Class design value

Natural ground DS-1  
Mobile groundwater AC-1 \*

\* increase to AC-2z in flowing water (pure or with >15mg/l carbon dioxide)









1 DAY INFILTRATION ASSESSMENT - WORKSHEET

Site: BEGBROKEE SCIENCE PARK

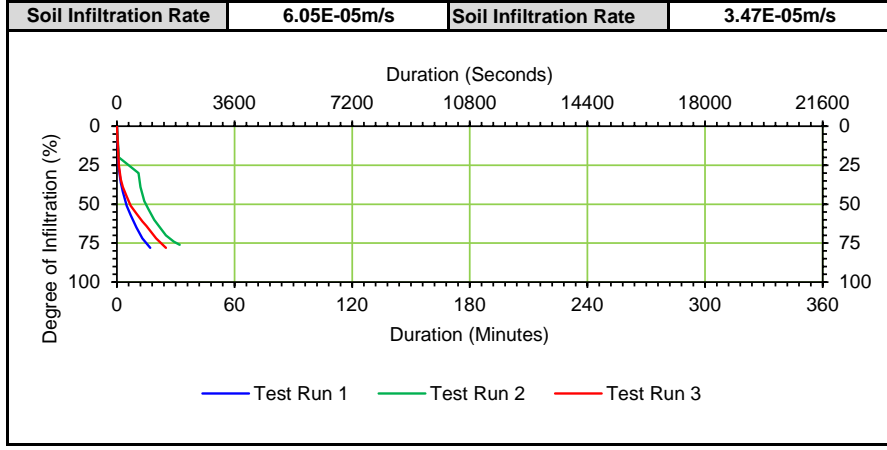
Client: OXFORD UNIVERSITY DEVELOPMENT

Test Location SA02 Date of start 29/09/2021 Date at end 30/10/2021

Table with 6 columns and 13 rows. Columns are grouped into Test Run 1, Test Run 2, and Test Run 3. Rows include Pit Dimensions (m), Trial Pit Length (L), Trial Pit Breadth / Width (B), Effective Depth (D), Time at Start of Filling, Time at End of Filling, Depth from Surface to Water (D\_TW), Water Depth (W\_D), Maximum Fill Volume (V\_W), Gravel used to backfill Test Pit, Porosity of Gravel Backfill (P\_t), and Corrected Water Volume (V\_WC).

Table with 12 columns and 24 rows. Columns are grouped into Time to soakaway for Test Run 1, 2, and 3. Rows include Time, Depth to water, and Duration for each run at various time intervals.

Summary table with 6 columns and 9 rows. Rows include 25% water loss (75% full), 50% water loss (50% full), 75% water loss (25% full), 25% time (seconds), 75% time (seconds), Vp 75-25, ap 50 (Actual area from test), and tp 75 - 25.



Form completed by table with 3 columns and 9 rows. Columns include Test/Calculated/Checked by, PRINT, and SIGN/DATE. Rows include Test/Calculated/Checked by, PRINT, SIGN, DATE, and MH/NT.



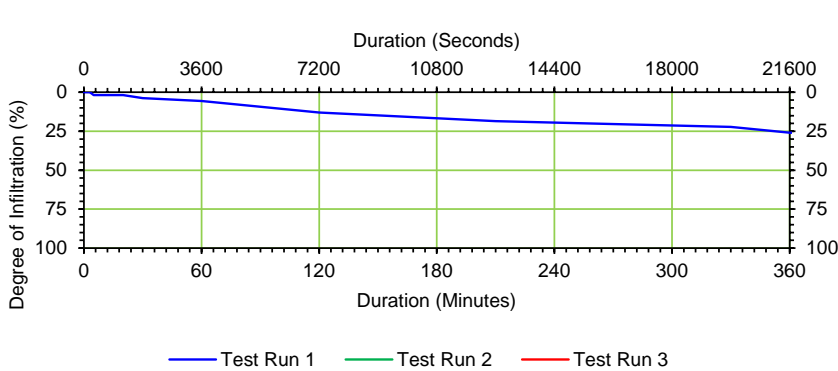
**1 DAY INFILTRATION ASSESSMENT - WORKSHEET**

Site: BEGBROKE SCIENCE PARK

Client: OXFORD UNIVERSITY DEVELOPMENT

Test Location SA03 Date of start 29/09/2021 Date at end 01/10/2021

Test Run 1				Test Run 2				Test Run 3			
Pit Dimensions (m)				Pit Dimensions (m)				Pit Dimensions (m)			
Trial Pit Length (L)		2.200m		Trial Pit Length (L)				Trial Pit Length (L)			
Trial Pit Breadth / Width (B)		0.500m		Trial Pit Breadth / Width (B)				Trial Pit Breadth / Width (B)			
Effective Depth (D)		1.000m		Effective Depth (D)				Effective Depth (D)			
Time at Start of Filling				Time at Start of Filling				Time at Start of Filling			
Time at End of Filling		9.45		Time at End of Filling				Time at End of Filling			
Depth from Surface to Water (D <sub>TW</sub> )		0.460m		Depth below Surface to Water (D <sub>TW</sub> )				Depth below Surface to Water (D <sub>TW</sub> )			
Water Depth (W <sub>D</sub> )		0.540m		Water Depth (W <sub>D</sub> )		-		Water Depth (W <sub>D</sub> )		-	
Maximum Fill Volume (V <sub>w</sub> )		0.594m <sup>3</sup>		Maximum Fill Volume (V <sub>w</sub> )		-		Maximum Fill Volume (V <sub>w</sub> )		-	
Gravel used to backfill Test Pit		Yes		Gravel used to backfill Test Pit				Gravel used to backfill Test Pit			
Porosity of Gravel Backfill (P <sub>i</sub> )		0.300		Porosity of Gravel Backfill (P <sub>i</sub> )				Porosity of Gravel Backfill (P <sub>i</sub> )			
Corrected Water Volume (V <sub>wc</sub> )		0.178m <sup>3</sup>		Corrected Water Volume (V <sub>wc</sub> )		-		Corrected Water Volume (V <sub>wc</sub> )		-	
Time to soakaway				Time to soakaway				Time to soakaway			
Time		Depth to water	Duration	Time		Depth to water	Duration	Time		Depth to water	Duration
Day	Time	(m bgl)	Seconds	Day	Time	(m bgl)	Seconds	Day	Time	(m bgl)	Seconds
1	9.450	0.460	0								
1	9.460	0.460	60								
1	9.470	0.460	120								
1	9.480	0.460	180								
1	9.500	0.470	300								
1	9.520	0.470	420								
1	9.550	0.470	600								
1	10.050	0.470	1200								
1	10.150	0.480	1800								
1	10.450	0.490	3600								
1	11.150	0.510	5400								
1	11.450	0.530	7200								
1	12.150	0.540	9000								
1	13.150	0.560	12600								
1	14.150	0.570	16200								
1	15.150	0.580	19800								
1	15.450	0.600	21600								
2	8.450	0.760	82800								
2	11.150	0.780	91800								
2	15.150	0.800	106200								
3	8.450	0.830	169200								
3	12.450	0.840	183600								
			183600								
25% water loss (75% full)		0.595m		25% water loss (75% full)		-		25% water loss (75% full)		-	
50% water loss (50% full)		0.730m		50% water loss (50% full)		-		50% water loss (50% full)		-	
75% water loss (25% full)		0.865m		75% water loss (25% full)		-		75% water loss (25% full)		-	
25% time (seconds)		21150 sec		25% time (seconds)		-		25% time (seconds)		-	
75% time (seconds)		-		75% time (seconds)		-		75% time (seconds)		-	
Vp 75-25		0.089m <sup>3</sup>		Vp 75-25		-		Vp 75-25		-	
ap 50 (Actual area from test)		2.558m <sup>3</sup>		ap 50 (Actual area from test)		-		ap 50 (Actual area from test)		-	
tp 75 - 25				tp 75 - 25				tp 75 - 25			
Soil Infiltration Rate		-		Soil Infiltration Rate		-		Soil Infiltration Rate		-	



Form completed by		
Tested By	PRINT	MH
	SIGN	MH
	DATE	08/10/2021
Calculated By	PRINT	MH
	SIGN	MH
	DATE	08/10/2021
Checked by	PRINT	NT
	SIGN	NT
	DATE	08/10/2021







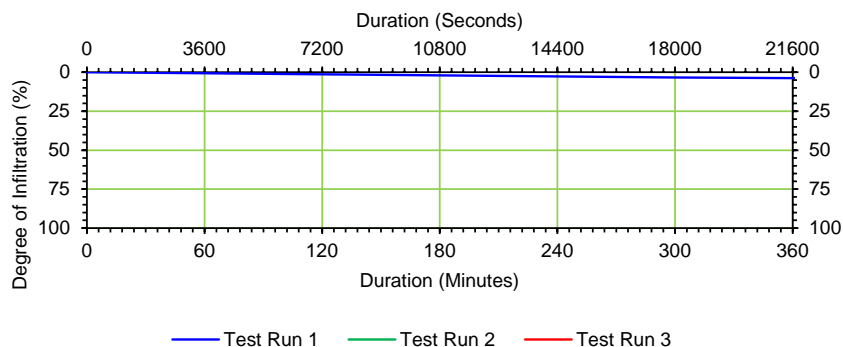
1 DAY INFILTRATION ASSESSMENT - WORKSHEET

Site: BEGBROKE SCIENCE PARK

Client: OXFORD UNIVERSITY DEVELOPMENT

Test Location SA05 Date of start 29/10/2021 Date at end 29/10/2021

Table with columns for Test Run 1, Test Run 2, and Test Run 3. Rows include Pit Dimensions (m), Time to soakaway (Time, Depth to water, Duration), and various volume and loss calculations.



Form completed by table with columns for Test Run, Tested By, Calculated By, and Checked by. Includes fields for PRINT, SIGN, and DATE.







# Appendix E Site Monitoring Data and Ground Gas Risk Assessment

*Site Monitoring Data*

Monitoring round		Well Details				Water/NAPL Monitoring (m below datum)					Pressure and flow (use < for below LoD)					Gas Concentrations (use < for below LoD)							Local conditions		
Round Reference	Date	Time	Well ID	Single or dual gas tap (S/D)	Datum Type (Casing / GL)	Depth to water	"D" denotes dry hole	Depth to Base of Hole	Depth to LNAPL	Depth to DNAPL	Atm. pressure (hPa)	Atm. pressure falling (F) / rising (R) / steady (S)	Relative BH pressure (hPa)	Initial Gas Flow (L/hr)	Steady Gas Flow (L/hr)	CH <sub>4</sub> (%v/v) - (Initial)	CH <sub>4</sub> (%v/v) - (Steady)	CO <sub>2</sub> (%v/v) - (Initial)	CO <sub>2</sub> (%v/v) - (Steady)	O <sub>2</sub> (%v/v) - (Initial)	O <sub>2</sub> (%v/v) - (Steady)	CO (ppm)	H <sub>2</sub> S (ppm)	VOC (as ppm using PID)	Notes on condition of borehole (including any)
Landfill R1	24/08/21	11:23	BH01	S	GL	3.37		9.98	-	-	1023	R	0.14	-	0.2	0.1	0.1	13.0	13.0	8.4	8.4	6	0	-	OK
Landfill R1	24/08/21	14:18	BH02	S	GL	3.02		8.75	-	-	1023	R	0.00	-	0.2	0.1	0.1	8.8	8.7	12.2	12.3	2	0	-	OK
Landfill R1	24/08/21	11:51	BH03	S	GL	3.35		8.11	-	-	1025	R	0.02	-	0.2	0.1	0.1	14.8	14.7	5.9	5.9	10	0	-	OK
Landfill R1	24/08/21	11:16	WS01	S	GL	Dry	D*	3.24	-	-	1023	R	0.05	-	0.2	0.1	0.1	12.8	12.8	9.6	9.6	1	0	-	OK
Landfill R1	24/08/21	12:54	WS02	S	GL	Dry	D	3.69	-	-	1025	R	0.02	-	0.3	0.1	0.1	3.2	3.2	17.4	17.5	1	0	-	DRY
Landfill R1	24/08/21	13:01	WS03	S	GL	Dry	D	2.69	-	-	1024	R	0.02	-	0.3	0.1	0.1	8.9	8.9	12.5	12.5	3	0	-	DRY
Landfill R1	24/08/21	12:33	WS04	S	GL	Dry	D	3.07	-	-	1024	R	0.00	-	0.2	0.3	0.3	15.5	15.5	1.8	1.8	4	0	-	DRY
Landfill R1	24/08/21	11:31	WS05	S	GL	2.59		3.17	-	-	1023	R	0.04	-	0.3	0.1	0.1	8.2	8.2	12.8	12.8	1	0	-	OK
Landfill R1	24/08/21	11:39	WS06	S	GL	1.88		2.10	-	-	1024	R	0.07	-	0.1	0.1	0.1	8.5	8.4	12.0	12.0	2	0	-	OK
Landfill R1	24/08/21	11:58	WS07	S	GL	Dry	D*	2.54	-	-	1025	R	0.12	-	0.2	0.1	0.1	3.1	3.1	16.5	17.5	0	0	-	OK
Landfill R1	24/08/21	12:23	WS08	S	GL	Dry	D	3.91	-	-	1025	R	0.02	-	0.2	0.1	0.1	7.5	7.5	14.8	14.8	1	0	-	DRY
Landfill R1	24/08/21	12:08	WS09	S	GL	Dry	D	3.05	-	-	1025	R	0.02	-	0.1	0.1	0.1	3.1	3.1	18.3	18.4	1	0	-	DRY
Landfill R1	24/08/21	12:43	WS10	S	GL	Dry	D	3.11	-	-	1024	R	0.04	-	0.2	0.1	0.1	6.1	6.1	12.4	12.4	0	0	-	DRY
Landfill R2	07/09/21	10:43	BH01	S	GL	3.91		9.98	-	-	1014	F	0.07	-	0.2	0.1	0.1	11.6	11.6	9.0	9.0	1	0	-	CO MAXED OUT AT 248ppm BEFORE SETTLING BACK TO
Landfill R2	07/09/21	11:27	BH02	S	GL	3.02		8.75	-	-	1015	F	0.02	-	0.1	0.1	0.1	9.7	9.7	11.8	11.9	5	0	-	OK
Landfill R2	07/09/21	11:03	BH03	S	GL	3.38		8.11	-	-	1014	F	0.05	-	-0.5	0.1	0.1	8.0	8.0	12.7	12.7	6	0	-	OK
Landfill R2	07/09/21	10:39	WS01	S	GL	Dry	D	3.15	-	-	1014	F	0.02	-	0.2	0.1	0.1	13.3	13.3	10.7	10.7	1	0	-	DRY
Landfill R2	07/09/21	11:42	WS02	S	GL	Dry	D	3.60	-	-	1015	F	0.25	-	0.2	0.1	0.1	3.8	3.8	16.9	16.9	1	0	-	DRY
Landfill R2	07/09/21	11:48	WS03	S	GL	Dry	D	2.62	-	-	1015	F	0.05	-	0.2	0.1	0.1	9.0	9.0	11.6	11.6	3	0	-	DRY
Landfill R2	07/09/21	11:31	WS04	S	GL	Dry	D	3.01	-	-	1015	F	0.02	-	0.2	0.2	0.2	16.3	16.3	1.1	1.1	4	0	-	DRY
Landfill R2	07/09/21	10:51	WS05	S	GL	2.61		3.17	-	-	1014	F	0.02	-	0.1	0.1	0.1	4.2	4.2	16.3	16.4	0	0	-	OK
Landfill R2	07/09/21	10:57	WS06	S	GL	Dry	D*	2.10	-	-	1014	F	-0.04	-	0.1	0.1	0.1	7.1	7.1	12.8	12.8	1	0	-	OK
Landfill R2	07/09/21	11:09	WS07	S	GL	Dry	D*	2.54	-	-	1015	F	0.04	-	0.2	0.1	0.1	3.9	3.9	16.4	16.4	0	0	-	OK
Landfill R2	07/09/21	11:22	WS08	S	GL	Dry	D	3.88	-	-	1015	F	-0.05	-	0.1	0.1	0.1	7.2	7.2	14.4	14.5	1	0	-	DRY
Landfill R2	07/09/21	11:15	WS09	S	GL	Dry	D	2.96	-	-	1015	F	0.07	-	0.2	0.1	0.1	3.2	3.2	17.5	17.5	1	0	-	DRY
Landfill R2	07/09/21	11:37	WS10	S	GL	Dry	D	3.05	-	-	1015	F	0.02	-	0.2	0.1	0.1	3.7	3.6	14.4	15.7	0	0	-	DRY
Landfill R3	14/09/21	12:17	BH01	S	GL	3.96		9.98	-	-	1004	F	-0.12	-	0.1	0.1	0.1	11.5	11.5	9.7	9.7	0	0	-	SAMPLE
Landfill R3	14/09/21	13:03	BH02	S	GL	3.04		8.75	-	-	1005	F	0.00	-	0.1	0.1	0.1	10.6	10.6	11.8	11.8	2	0	-	SAMPLE
Landfill R3	14/09/21	12:34	BH03	S	GL	3.39		8.11	-	-	1004	F	0.07	-	-1.3	0.1	0.1	8.1	8.1	13.3	13.4	3	0	-	SAMPLE
Landfill R3	14/09/21	12:04	WS01	S	GL	Dry	D	3.15	-	-	1004	F	-0.09	-	0.1	0.1	0.1	11.3	11.3	12.8	12.8	0	0	-	DRY
Landfill R3	14/09/21	13:21	WS02	S	GL	Dry	D*	3.69	-	-	1005	F	-0.07	-	0.2	0.1	0.1	3.7	3.7	17.6	17.7	0	0	-	OK
Landfill R3	14/09/21	13:26	WS03	S	GL	Dry	D*	2.69	-	-	1005	F	0.14	-	0.1	0.1	0.1	7.3	7.3	14.6	14.6	0	0	-	OK
Landfill R3	14/09/21	13:13	WS04	S	GL	Dry	D*	3.07	-	-	1005	F	-0.25	-	0.1	0.3	0.3	14.1	14.1	4.1	4.1	0	0	-	OK
Landfill R3	14/09/21	12:23	WS05	S	GL	2.63		3.10	-	-	1004	F	-0.04	-	0.1	0.1	0.1	4.8	4.8	16.5	16.5	0	0	-	OK
Landfill R3	14/09/21	12:28	WS06	S	GL	1.89		2.10	-	-	1004	F	0.12	-	0.1	0.1	0.1	6.0	6.0	14.9	14.9	0	0	-	OK
Landfill R3	14/09/21	12:49	WS07	S	GL	Dry	D*	2.54	-	-	1004	F	0.02	-	0.1	0.1	0.1	3.4	3.4	17.5	17.5	0	0	-	OK
Landfill R3	14/09/21	12:59	WS08	S	GL	Dry	D*	3.91	-	-	1005	F	0.02	-	0.1	0.1	0.1	7.2	7.2	15.1	15.1	0	0	-	OK
Landfill R3	14/09/21	12:54	WS09	S	GL	Dry	D*	3.05	-	-	1004	F	-0.11	-	0.1	0.1	0.1	3.4	3.4	18.5	18.5	0	0	-	OK
Landfill R3	14/09/21	13:17	WS10	S	GL	Dry	D*	3.11	-	-	1005	F	-0.05	-	0.1	0.1	0.1	9.1	4.0	13.6	15.9	0	0	-	OK
Landfill R4	21/09/21	11:38	BH01	S	GL	3.97		9.98	-	-	1023	R	0.05	-	0.1	0.1	0.1	9.9	9.9	12.3	12.3	3	1	-	OK
Landfill R4	21/09/21	12:23	BH02	S	GL	3.05		8.75	-	-	1024	R	-0.04	-	0.1	0.1	0.1	6.1	6.1	15.6	15.6	3	0	-	OK
Landfill R4	21/09/21	12:00	BH03	S	GL	3.42		8.11	-	-	1024	R	0.05	-	-1.0	0.1	0.1	5.5	5.5	15.7	15.8	3	0	-	OK
Landfill R4	21/09/21	11:33	WS01	S	GL	Dry	D	3.15	-	-	1023	R	-0.35	-	0.1	0.1	0.1	6.6	6.6	15.3	15.3	0	1	-	DRY
Landfill R4	21/09/21	12:39	WS02	S	GL	Dry	D*	3.69	-	-	1025	R	0.00	-	0.2	0.1	0.1	4.4	4.4	16.6	16.6	1	0	-	OK
Landfill R4	21/09/21	12:45	WS03	S	GL	Dry	D	2.65	-	-	1024	R	0.02	-	0.2	0.1	0.1	8.5	8.5	12.5	12.5	2	0	-	OK
Landfill R4	21/09/21	12:29	WS04	S	GL	Dry	D	3.00	-	-	1025	R	0.12	-	0.2	0.1	0.1	5.3	5.3	13.1	13.2	2	0	-	DRY
Landfill R4	21/09/21	11:44	WS05	S	GL	2.71		3.10	-	-	1023	R	-0.07	-	0.1	0.1	0.1	4.3	4.3	16.7	16.7	0	1	-	OK
Landfill R4	21/09/21	11:54	WS06	S	GL	Dry	D*	2.10	-	-	1024	R	-0.07	-	0.1	0.1	0.1	7.1	7.0	13.5	13.6	0	0	-	OK
Landfill R4	21/09/21	12:06	WS07	S	GL	Dry	D*	2.54	-	-	1024	R	0.02	-	0.2	0.1	0.1	3.1	3.1	17.6	17.6	0	0	-	OK
Landfill R4	21/09/21	12:18	WS08	S	GL	Dry	D	4.83	-	-	1024	R	-0.05	-	0.2	0.1	0.1	7.0	7.0	14.5	14.5	1	0	-	DRY
Landfill R4	21/09/21	12:11	WS09	S	GL	Dry	D	2.97	-	-	1024	R	-0.12	-	0.2	0.1	0.1	3.3	3.3	17.9	17.9	1	0	-	DRY
Landfill R4	21/09/21	12:34	WS10	S	GL	Dry	D	3.05	-	-	1025	R	0.07	-	0.2	0.1	0.1	3.5	3.5	16.3	16.3	1	0	-	DRY
Landfill R5	28/09/21	12:07	BH01	S	GL	3.98		9.98	-	-	1006	R	0.04	-	0.1	0.1	0.1	13.6	12.0	11.5	11.5	2	1	-	OK
Landfill R5	28/09/21	12:45	BH02	S	GL	3.07		8.75	-	-	1007	R	0.09	-	0.1	0.1	0.1	5.6	5.6	16.4	16.5	3	0	-	OK
Landfill R5	28/09/21	12:23	BH03	S	GL	3.45		8.11	-	-	1007	R	0.04	-	-0.2	0.1	0.1	5.7	5.7	15.6	15.7	3	1	-	OK
Landfill R5	28/09/21	12:02	WS01	S	GL	Dry	D	3.15	-	-	1006	R	-0.16	-	0.1	0.1	0.1	2.5	2.5	19.4	19.4	0	0	-	DRY
Landfill R5	28/09/21	13:01	WS02	S	GL	Dry	D*	3.69	-	-	1007	R	0.04	-	0.1	0.1	0.1	4.8	4.8	17.0	17.1	0	0	-	OK
Landfill R5	28/09/21	13:08	WS03	S	GL	Dry	D	2.65	-	-	1007	R	0.21	-	0.2	0.1	0.1	9.5	9.5	12.9	13.0	1	0	-	DRY
Landfill R5	28/09/21	12:50	WS04	S	GL	Dry	D	3.00	-	-	1007	R	0.07	-	0.1	0.1	0.1	6.4	6.4	12.5	12.5	1	0	-	DRY
Landfill R5	28/09/21	12:14	WS05	S	GL	2.88		3.10	-	-	1007	R	0.02	-	0.1	0.1	0.1	1.1	0.4	17.8	20.3	0	0	-	OK
Landfill R5	28/09/21	12:18																							



Monitoring round			Well Details			Water/NAPL Monitoring (m below datum)					Pressure and flow (use < for below LoD)					Gas Concentrations (use < for below LoD)								Local conditions	
Round Reference	Date	Time	Well ID	Single or dual gas tap (S/D)	Datum Type (Casing / GL)	Depth to water	"D" denotes dry hole	Depth to Base of Hole	Depth to LNAPL	Depth to DNAPL	Atm. pressure (hPa)	Atm. pressure falling (F) / rising (R)/ steady (S)	Relative BH pressure (hPa)	Initial Gas Flow (L/hr)	Steady Gas Flow (L/hr)	CH <sub>4</sub> (%v/v) - (Initial)	CH <sub>4</sub> (%v/v) - (Steady)	CO <sub>2</sub> (%v/v) - (Initial)	CO <sub>2</sub> (%v/v) - (Steady)	O <sub>2</sub> (%v/v) - (Initial)	O <sub>2</sub> (%v/v) - (Steady)	CO (ppm)	H <sub>2</sub> S (ppm)	VOC (as ppm using PID)	Notes on condition of borehole (including any
Landfill R5	28/09/21	12:34	WS07	S	GL	Dry	D*	2.54	-	-	1007	R	0.04	-	0.2	0.1	0.1	2.4	2.4	18.8	18.8	0	0	-	OK
Landfill R5	28/09/21	12:40	WS08	S	GL	Dry	D	4.83	-	-	1007	R	-0.07	-	0.1	0.1	0.1	5.8	5.8	16.6	16.7	0	0	-	DRY
Landfill R5	28/09/21	12:29	WS09	S	GL	Dry	D	2.97	-	-	1007	R	-0.05	-	0.2	0.1	0.1	3.5	3.5	18.2	18.3	0	0	-	DRY
Landfill R5	28/09/21	12:54	WS10	S	GL	Dry	D	3.05	-	-	1007	R	0.05	-	0.2	0.1	0.1	5.4	5.4	14.8	14.9	0	0	-	DRY
Landfill R6	05/10/21	11:49	BH01	S	GL	3.96		9.98	-	-	993	R	0.16	-	0.1	0.1	0.1	15.1	15.1	9.7	9.7	2	0	-	OK
Landfill R6	05/10/21	12:24	BH02	S	GL	3.08		8.75	-	-	994	R	-0.07	-	0.2	0.1	0.1	3.9	3.9	18.3	18.4	1	0	-	OK
Landfill R6	05/10/21	12:05	BH03	S	GL	3.42		8.11	-	-	993	R	0.09	-	0.2	0.1	0.1	5.1	5.1	16.2	16.2	2	0	-	OK
Landfill R6	05/10/21	11:45	WS01	S	GL	Dry	D	3.15	-	-	992	R	0.09	-	0.2	0.1	0.1	3.2	3.2	18.5	18.6	0	0	-	DRY
Landfill R6	05/10/21	12:37	WS02	S	GL	3.47		3.69	-	-	994	R	0.09	-	0.1	0.1	0.1	6.1	5.9	15.4	15.4	0	0	-	OK
Landfill R6	05/10/21	12:42	WS03	S	GL	Dry	D	2.65	-	-	994	R	0.11	-	0.2	0.1	0.1	10.4	10.4	10.5	10.6	0	0	-	DRY
Landfill R6	05/10/21	12:28	WS04	S	GL	Dry	D	3.00	-	-	994	R	0.05	-	0.2	0.1	0.1	4.3	4.3	15.9	15.9	0	0	-	DRY
Landfill R6	05/10/21	11:55	WS05	S	GL	Dry	D*	3.10	-	-	993	R	0.07	-	0.2	0.1	0.1	4.6	1.7	17.5	19.1	0	0	-	OK
Landfill R6	05/10/21	12:00	WS06	S	GL	1.89		2.10	-	-	993	R	-0.05	-	0.1	0.1	0.1	7.5	7.4	13.8	13.8	0	0	-	OK
Landfill R6	05/10/21	12:09	WS07	S	GL	Dry	D*	2.54	-	-	993	R	0.07	-	0.2	0.1	0.1	1.8	1.8	19.2	19.4	0	0	-	OK
Landfill R6	05/10/21	12:19	WS08	S	GL	Dry	D	4.83	-	-	994	R	0.05	-	0.2	0.1	0.1	5.7	5.7	15.8	15.8	0	0	-	DRY
Landfill R6	05/10/21	12:14	WS09	S	GL	Dry	D	2.97	-	-	994	R	0.14	-	0.2	0.1	0.1	3.9	3.9	18.0	18.0	0	0	-	DRY
Landfill R6	05/10/21	12:32	WS10	S	GL	Dry	D	3.05	-	-	994	R	0.02	-	0.2	0.1	0.1	1.0	1.0	19.4	20.3	0	0	-	DRY
Wider Site R1	12/09/22	13:52	BH201	S	GL	4.18		5.00	-	-	1003	F	-0.07	-	0.2	0.1	0.1	0.8	0.8	20.1	20.1	1	1	-	
Wider Site R1	12/09/22	14:12	BH202	S	GL	3.21		5.24	-	-	1004	F	-0.12	-	0.1	0.1	0.1	0.7	0.7	20.3	20.4	2	0	-	
Wider Site R1	12/09/22	15:50	BH203	S	GL	3.53		6.00	-	-	1004	F	0.05	-	0.1	0.1	0.1	0.9	0.9	20.1	20.1	2	0	-	
Wider Site R1	12/09/22	16:20	BH204	S	GL	2.63		5.13	-	-	1003	F	0.11	-	0.1	0.1	0.1	0.8	0.8	20.4	20.6	1	0	-	
Wider Site R1	12/09/22	15:58	BH205	S	GL	1.15		4.12	-	-	1004	F	-0.07	-	0.1	0.1	0.1	0.6	0.6	20.6	20.6	3	0	-	
Wider Site R1	13/09/22	13:07	WS201	S	GL	Dry	D	1.80	-	-	1005	F	5.79	-	0.1	0.1	0.1	2.1	0.7	19.7	19.9	0	1	-	
Wider Site R1	13/09/22	13:22	WS202	S	GL	1.57		2.98	-	-	1005	F	0.09	-	0.1	0.1	0.1	1.1	1.1	19.8	19.8	1	0	-	
Wider Site R1	13/09/22	14:30	WS203	S	GL	Dry	D	1.97	-	-	1004	F	8.93	-	0.3	0.1	0.1	0.7	0.7	19.7	20.4	1	0	-	
Wider Site R1	13/09/22	14:15	WS205	S	GL	1.42		2.95	-	-	1005	F	0.00	-	0.1	0.1	0.1	3.6	3.1	18.1	18.1	1	0	-	
Wider Site R1	13/09/22	15:00	WS206	S	GL	2.14		4.20	-	-	1005	F	0.00	-	0.3	0.1	0.1	1.7	1.7	19.5	19.5	1	0	-	
Wider Site R1	15/09/22	10:11	WS207	S	GL	1.84		2.12	-	-	1007	R	0.07	-	-0.1	0.1	0.1	0.4	0.4	20.8	20.8	0	0	-	
Wider Site R1	15/09/22	10:28	WS208	S	GL	0.56		2.20	-	-	1007	R	0.16	-	3.2	0.1	0.1	0.7	0.7	20.6	20.6	13	0	-	
Wider Site R1	13/09/22	15:36	WS209	S	GL	1.62		3.29	-	-	1005	F	0.05	-	0.3	0.1	0.1	2.0	2.0	19.7	19.7	1	0	-	
Wider Site R1	13/09/22	15:55	WS210	S	GL	0.75		4.58	-	-	1005	F	-1.04	-	-4.4	0.1	0.1	0.4	0.3	20.8	21.0	7	0	-	
Wider Site R1	13/09/22	12:47	WS211	S	GL	1.01		5.01	-	-	1005	F	-0.02	-	0.0	0.1	0.1	2.5	2.5	19.0	19.0	1	1	-	
Wider Site R1	13/09/22	13:53	WS213	S	GL	Dry	D	3.60	-	-	1005	F	0.04	-	0.2	0.1	0.1	0.9	0.7	20.5	20.5	1	0	-	
Wider Site R1	13/09/22	15:18	WS214	S	GL	Dry	D	0.97	-	-	1004	F	0.07	-	0.3	0.1	0.1	1.1	1.1	20.4	20.4	1	0	-	
Wider Site R1	15/09/22	10:40	WS215	S	GL	0.90		2.53	-	-	1007	R	0.02	-	0.2	0.1	0.1	0.2	0.2	20.8	20.8	0	0	-	
Wider Site R1	12/09/22	12:51	WS216	S	GL	Dry	D*	4.05	-	-	1004	F	-0.07	-	0.1	0.1	0.1	1.9	1.9	19.7	19.7	0	0	-	
Wider Site R1	12/09/22	13:25	WS217	S	GL	Dry	D	2.02	-	-	1003	F	0.09	-	0.2	0.1	0.1	1.3	1.3	19.2	19.3	1	1	-	
Wider Site R1	15/09/22	11:40	WS218	S	GL	Dry	D	2.07	-	-	1007	R	-0.05	-	0.2	0.1	0.1	0.8	0.8	20.7	20.7	0	0	-	
Wider Site R1	15/09/22	11:25	WS219	S	GL	Dry	D	4.93	-	-	1007	R	0.04	-	0.2	0.1	0.1	1.5	1.5	20.1	20.1	0	0	-	
Wider Site R1	15/09/22	10:57	WS220	S	GL	2.77		3.00	-	-	1007	R	0.04	-	0.2	0.1	0.1	0.6	0.6	20.7	20.7	0	0	-	
Wider Site R1	12/09/22	13:08	WS221	S	GL	Dry	D	1.99	-	-	1003	F	0.00	-	0.3	0.1	0.1	1.0	0.9	19.9	19.9	0	1	-	
Wider Site R1	12/09/22	13:34	WS222	S	GL	Dry	D	2.43	-	-	1003	F	-0.05	-	0.2	0.1	0.1	0.9	0.9	19.9	19.9	1	1	-	
Wider Site R1	15/09/22	11:33	WS223	S	GL	Dry	D	2.97	-	-	1007	R	0.02	-	0.2	0.1	0.1	0.5	0.5	20.9	20.9	0	0	-	
Wider Site R1	15/09/22	12:36	WS224	S	GL	Dry	D	1.33	-	-	1007	R	0.04	-	0.2	0.1	0.1	1.0	1.0	20.3	20.3	0	0	-	
Wider Site R1	12/09/22	13:15	WS225	S	GL	Dry	D	1.98	-	-	1003	F	-0.14	-	0.4	0.1	0.1	0.9	0.9	19.4	19.6	1	1	-	
Wider Site R1	12/09/22	13:45	WS226	S	GL	Dry	D	1.12	-	-	1003	F	0.00	-	0.2	0.1	0.1	0.4	0.4	20.2	20.3	1	1	-	
Wider Site R1	12/09/22	13:40	WS227	S	GL	Dry	D	2.73	-	-	1003	F	-0.02	-	0.2	0.1	0.1	1.0	1.0	20.0	20.0	1	1	-	
Wider Site R1	12/09/22	15:40	WS228	S	GL	Dry	D	0.97	-	-	1003	F	0.07	-	0.2	0.1	0.1	0.4	0.4	20.8	20.8	1	0	-	
Wider Site R1	12/09/22	15:35	WS229	S	GL	Dry	D	1.95	-	-	1003	F	0.05	-	0.1	0.1	0.1	0.5	0.5	20.8	20.9	1	0	-	
Wider Site R1	12/09/22	14:06	WS230	S	GL	Dry	D	1.09	-	-	1003	F	0.07	-	0.2	0.1	0.1	0.6	0.6	20.5	20.5	1	0	-	
Wider Site R1	12/09/22	14:19	WS231	S	GL	4.49		5.07	-	-	1004	F	0.04	-	0.2	0.1	0.1	0.8	0.8	20.4	20.4	2	0	-	
Wider Site R1	15/09/22	11:09	WS232	S	GL	1.46		3.42	-	-	1007	R	0.02	-	0.2	0.1	0.1	0.4	0.4	20.8	20.8	0	0	-	
Wider Site R1	15/09/22	12:46	WS234	S	GL	1.25		1.62	-	-	1007	R	0.05	-	0.2	0.1	0.1	0.3	0.1	21.0	21.3	0	0	-	
Wider Site R1	22/09/22	10:53	WS235	S	GL	1.36		4.91	-	-	1014	F	0.02	-	0.3	0.1	0.1	1.9	1.7	19.1	19.2	0	0	-	
Wider Site R1	22/09/22	10:35	WS236	S	GL	Dry	D	1.95	-	-	1014	F	0.04	-	0.3	0.1	0.1	2.2	2.2	19.6	19.6	0	0	-	
Wider Site R1	12/09/22	15:26	WS237	S	GL	Dry	D	1.01	-	-	1003	F	0.05	-	0.3	0.1	0.1	0.2	0.2	21.0	21.0	1	0	-	
Wider Site R1	12/09/22	14:33	WS238	S	GL	3.84		5.06	-	-	1003	F	0.02	-	0.2	0.1	0.1	1.3	0.9	19.8	20.1	2	0	-	
Wider Site R1	15/09/22	11:57	WS239	S	GL	1.38		2.23	-	-	1007	R	0.05	-	0.2	0.1	0.1	0.8	0.8	20.7	20.7	0	0	-	
Wider Site R1	15/09/22	12:10	WS240	S	GL	Dry	D	1.10	-	-	1007	R	-0.02	-	0.2	0.1	0.1	1.2	1.2	20.6	20.6	0	0	-	
Wider Site R1	15/09/22	12:22	WS240	S	GL	1.36		2.20	-	-	1007	R	0.07	-	0.2	0.1	0.1	1.9	1.9	19.6	19.6	0	0	-	
Wider Site R1	15/09/22	13:19	WS241	S	GL	1.59		1.																	

Monitoring round			Well Details			Water/NAPL Monitoring (m below datum)					Pressure and flow (use < for below LoD)					Gas Concentrations (use < for below LoD)							Local conditions		
Round Reference	Date	Time	Well ID	Single or dual gas tap (S/D)	Datum Type (Casing / GL)	Depth to water	"D" denotes dry hole	Depth to Base of Hole	Depth to LNAPL	Depth to DNAPL	Atm. pressure (hPa)	Atm. pressure falling (F) / rising (R)/ steady (S)	Relative BH pressure (hPa)	Initial Gas Flow (L/hr)	Steady Gas Flow (L/hr)	CH <sub>4</sub> (%v/v) - (Initial)	CH <sub>4</sub> (%v/v) - (Steady)	CO <sub>2</sub> (%v/v) - (Initial)	CO <sub>2</sub> (%v/v) - (Steady)	O <sub>2</sub> (%v/v) - (Initial)	O <sub>2</sub> (%v/v) - (Steady)	CO (ppm)	H <sub>2</sub> S (ppm)	VOC (as ppm using PID)	Notes on condition of borehole (including any)
Wider Site R1	12/09/22	16:12	WS246	S	GL	1.44		4.55	-	-	1004	F	0.12	-	0.2	0.1	0.1	0.7	0.7	20.5	20.5	2	0	-	
Wider Site R1	12/09/22	16:26	WS247	S	GL	Dry	D*	0.89	-	-	1003	F	0.16	-	0.2	0.1	0.1	0.5	0.5	20.2	20.2	1	0	-	
Wider Site R1	15/09/22	15:40	WS248	S	GL	Dry	D	2.02	-	-	1007	R	0.12	-	0.2	0.1	0.1	0.7	0.7	20.8	20.8	0	0	-	
Wider Site R1	15/09/22	13:51	WS249	S	GL	Dry	D	0.97	-	-	1007	R	0.14	-	0.2	0.1	0.1	0.6	0.6	20.9	20.9	0	0	-	
Wider Site R1	15/09/22	14:20	WS250	S	GL	Dry	D	0.84	-	-	1007	R	0.04	-	0.2	0.1	0.1	0.5	0.5	21.2	21.2	0	0	-	
Wider Site R1	15/09/22	13:36	WS251	S	GL	0.90		2.95	-	-	1007	R	0.11	-	0.2	0.1	0.1	0.2	0.2	21.2	21.2	0	0	-	
Wider Site R1	15/09/22	14:07	WS252	S	GL	Dry	D	5.05	-	-	1007	R	0.05	-	-4.5	0.1	0.1	0.1	0.1	21.2	21.2	1	0	-	
Wider Site R2	26/09/22	14:37	BH201	S	GL	3.69		5.90	-	-	996	F	0.00	-	0.3	0.1	0.1	1.1	1.1	20.9	20.9	0	0	-	
Wider Site R2	26/09/22	13:50	BH202	S	GL	3.95		5.74	-	-	996	F	-0.07	-	0.3	0.1	0.1	0.7	0.7	21.0	21.0	0	0	-	
Wider Site R2	27/09/22	13:01	BH203	S	GL	Dry	D*	5.94	-	-	995	F	0.07	-	0.3	0.1	0.1	0.7	0.7	21.2	21.3	0	0	-	
Wider Site R2	27/09/22	12:36	BH204	S	GL	3.43		5.99	-	-	996	F	0.04	-	0.3	0.1	0.1	1.0	1.0	21.0	21.0	0	0	-	
Wider Site R2	27/09/22	12:48	BH205	S	GL	-		6.03	-	-	996	F	0.02	-	0.2	0.1	0.1	0.2	0.2	21.2	21.4	0	0	-	
Wider Site R2	26/09/22	11:07	WS201	S	GL	Dry	D	1.86	-	-	995	F	-0.07	-	0.3	0.1	0.1	1.5	1.4	19.7	19.7	0	0	-	
Wider Site R2	26/09/22	11:18	WS202	S	GL	Dry	D	1.98	-	-	996	F	-0.05	-	0.3	0.1	0.1	1.3	1.3	20.4	20.4	0	0	-	
Wider Site R2	26/09/22	11:42	WS203	S	GL	Dry	D	1.98	-	-	995	F	0.09	-	0.3	0.1	0.1	0.8	0.8	20.8	20.8	0	0	-	
Wider Site R2	26/09/22	12:09	WS205	S	GL	Dry	D	2.92	-	-	996	F	0.00	-	0.3	0.1	0.1	3.4	3.3	18.7	18.7	0	0	-	
Wider Site R2	26/09/22	11:34	WS213	S	GL	Dry	D	3.60	-	-	996	F	0.02	-	0.3	0.1	0.1	0.6	0.6	20.9	20.9	0	0	-	
Wider Site R2	26/09/22	13:24	WS214	S	GL	Dry	D	0.98	-	-	996	F	0.05	-	0.3	0.1	0.1	0.4	0.4	21.7	21.7	0	0	-	
Wider Site R2	26/09/22	13:07	WS219	S	GL	4.34		4.96	-	-	996	F	0.00	-	0.3	0.1	0.1	1.5	1.5	20.6	20.6	0	0	-	
Wider Site R2	26/09/22	15:19	WS221	S	GL	Dry	D	1.98	-	-	997	F	0.00	-	0.3	0.1	0.1	2.1	2.1	20.9	20.9	0	0	-	
Wider Site R2	26/09/22	14:12	WS222	S	GL	Dry	D	1.98	-	-	996	F	0.09	-	0.3	0.1	0.1	1.2	1.1	20.8	20.8	0	0	-	
Wider Site R2	27/09/22	11:42	WS224	S	GL	Dry	D*	1.36	-	-	996	F	-0.02	-	0.3	0.1	0.1	0.8	0.2	20.9	21.4	0	0	-	
Wider Site R2	26/09/22	15:14	WS225	S	GL	Dry	D	1.98	-	-	997	F	0.04	-	0.3	0.1	0.1	0.9	0.9	21.0	21.3	0	0	-	
Wider Site R2	26/09/22	14:55	WS226	S	GL	Dry	D	1.11	-	-	997	F	0.12	-	0.3	0.1	0.1	0.6	0.6	21.3	21.3	0	0	-	
Wider Site R2	27/09/22	13:08	WS228	S	GL	Dry	D	0.97	-	-	995	F	0.05	-	0.3	0.1	0.1	0.8	0.8	21.5	21.5	0	0	-	
Wider Site R2	27/09/22	13:14	WS229	S	GL	Dry	D	1.93	-	-	995	F	0.12	-	0.3	0.1	0.1	0.9	0.9	21.3	21.4	0	0	-	
Wider Site R2	27/09/22	14:27	WS231	S	GL	Dry	D	4.50	-	-	994	F	0.07	-	0.3	0.1	0.1	2.5	2.5	20.0	20.0	0	0	-	
Wider Site R2	26/09/22	13:42	WS232	S	GL	1.47		3.95	-	-	996	F	-0.07	-	0.3	0.1	0.1	0.8	0.8	21.2	21.2	0	0	-	
Wider Site R2	27/09/22	11:50	WS234	S	GL	1.22		1.60	-	-	996	F	0.07	-	0.3	0.1	0.1	0.1	0.1	21.6	21.6	0	0	-	
Wider Site R2	26/09/22	15:46	WS235	S	GL	1.36		4.93	-	-	997	F	0.04	-	0.3	0.1	0.1	1.7	1.7	19.9	19.9	0	0	-	
Wider Site R2	26/09/22	15:39	WS236	S	GL	Dry	D	1.93	-	-	997	F	0.07	-	0.3	0.1	0.1	1.1	1.1	21.0	21.0	0	0	-	
Wider Site R2	27/09/22	13:29	WS237	S	GL	Dry	D	0.93	-	-	995	F	0.04	-	0.3	0.1	0.1	0.5	0.5	21.7	21.7	0	0	-	
Wider Site R2	27/09/22	14:15	WS238	S	GL	3.95		5.93	-	-	995	F	0.05	-	0.3	0.1	0.1	2.0	2.0	20.2	20.2	0	0	-	
Wider Site R2	27/09/22	12:04	WS239	S	GL	1.39		2.21	-	-	996	F	0.00	-	0.3	0.1	0.1	0.8	0.8	21.2	21.2	0	0	-	
Wider Site R2	27/09/22	11:57	WS240	S	GL	Dry	D	1.07	-	-	996	F	0.11	-	0.3	0.1	0.1	1.3	1.3	21.0	21.0	0	0	-	
Wider Site R2	27/09/22	11:04	WS241	S	GL	1.56		1.93	-	-	996	F	-0.04	-	0.3	0.1	0.1	1.3	1.3	20.3	20.3	0	0	-	
Wider Site R2	26/09/22	15:53	WS242	S	GL	0.79		3.56	-	-	997	F	0.04	-	0.3	0.1	0.1	1.2	1.2	20.7	20.7	0	0	-	
Wider Site R2	27/09/22	13:55	WS243	S	GL	Dry	D	0.97	-	-	995	F	0.09	-	0.3	0.1	0.1	1.7	0.9	20.9	21.1	0	0	-	
Wider Site R2	27/09/22	12:19	WS244	S	GL	Dry	D	0.84	-	-	996	F	0.05	-	0.3	0.1	0.1	0.6	0.6	21.3	21.3	0	0	-	
Wider Site R2	27/09/22	12:56	WS245	S	GL	1.15		2.47	-	-	996	F	-0.02	-	-0.2	0.1	0.1	0.1	0.1	21.5	21.5	0	0	-	
Wider Site R2	27/09/22	14:07	WS246	S	GL	1.48		4.43	-	-	995	F	0.09	-	0.3	0.1	0.1	1.1	0.7	20.5	21.3	0	0	-	
Wider Site R2	27/09/22	12:24	WS247	S	GL	Dry	D	0.87	-	-	996	F	0.05	-	0.3	0.1	0.1	1.2	1.2	20.6	20.6	0	0	-	
Wider Site R2	27/09/22	11:21	WS248	S	GL	Dry	D*	1.59	-	-	996	F	0.05	-	0.3	0.1	0.1	0.6	0.6	21.0	21.1	0	0	-	
Wider Site R2	27/09/22	10:41	WS249	S	GL	Dry	D	0.97	-	-	996	F	0.02	-	0.2	0.1	0.1	0.7	0.7	20.7	20.8	0	0	-	
Wider Site R2	27/09/22	10:48	WS250	S	GL	Dry	D	0.84	-	-	996	F	0.04	-	0.3	0.1	0.1	0.6	0.6	20.9	20.9	0	0	-	
Wider Site R3	10/10/22	16:35	BH201	S	GL	4.29		5.00	-	-	1014	R	0.02	-	0.2	0.1	0.1	0.8	0.8	20.1	20.1	0	0	-	
Wider Site R3	10/10/22	12:12	BH202	S	GL	3.28		5.23	-	-	1014	R	0.05	-	0.3	0.1	0.1	0.6	0.6	21.5	21.7	0	0	-	
Wider Site R3	10/10/22	15:19	BH203	S	GL	3.54		6.00	-	-	1014	R	0.12	-	0.2	0.1	0.1	0.4	0.4	20.5	20.5	1	0	-	
Wider Site R3	10/10/22	14:49	BH204	S	GL	2.63		5.10	-	-	1016	R	-0.09	-	0.2	0.1	0.1	0.8	0.8	21.4	21.6	0	0	-	
Wider Site R3	10/10/22	15:26	BH205	S	GL	1.15		4.12	-	-	1014	R	0.00	-	0.2	0.1	0.1	0.3	0.3	21.0	21.0	0	0	-	
Wider Site R3	10/10/22	09:37	WS201	S	GL	Dry	D	1.86	-	-	1012	R	0.14	-	0.2	0.1	0.1	0.9	0.8	20.0	20.5	0	0	-	
Wider Site R3	10/10/22	09:44	WS202	S	GL	Dry	D	1.97	-	-	1012	R	0.04	-	0.0	0.1	0.1	0.7	0.7	20.4	20.4	0	1	-	
Wider Site R3	10/10/22	10:46	WS203	S	GL	Dry	D	1.98	-	-	1013	R	-0.04	-	0.3	0.1	0.1	0.7	0.7	20.8	21.1	0	0	-	
Wider Site R3	10/10/22	10:58	WS204	S	GL	Dry	D	1.00	-	-	1013	R	-0.02	-	0.1	0.1	0.1	0.3	0.3	20.9	21.2	0	0	-	
Wider Site R3	10/10/22	10:38	WS205	S	GL	1.46		2.96	-	-	1013	R	0.05	-	0.2	0.1	0.1	2.3	2.3	19.8	19.9	0	0	-	
Wider Site R3	10/10/22	10:29	WS206	S	GL	2.18		4.30	-	-	1013	R	-0.02	-	0.1	0.1	0.1	1.5	1.5	20.1	20.2	0	0	-	
Wider Site R3	10/10/22	11:08	WS207	S	GL	0.84		2.15	-	-	1013	R	-0.05	-	-0.1	0.1	0.1	0.8	0.8	20.9	21.0	0	0	-	
Wider Site R3	10/10/22	11:15	WS208	S	GL	0.59		2.22	-	-	1014	R	2.91	-	-4.7	0.1	0.1	1.1	1.1	20.6	20.6	4	0	-	
Wider Site R3	10/10/22	10:22	WS209	S	GL	1.66		2.99	-	-	1013	R	0.02	-	0.3	0.1	0.1	2.1	2.0	20.0	20.0	0	0	-	
Wider Site R3	10/10/22	11:28	WS210	S	GL	0.77		2.60	-	-	1014	R	0.12	-	-3.0	0.1	0.1	1.1	1.1	20.6	20.7	2	0	-	
Wider Site R3	10/10/22	09:30	WS211	S	GL	3.15		3.52	-	-	1012	R	0.23	-											

Monitoring round			Well Details			Water/NAPL Monitoring (m below datum)					Pressure and flow (use < for below LoD)					Gas Concentrations (use < for below LoD)							Local conditions		
Round Reference	Date	Time	Well ID	Single or dual gas tap (S/D)	Datum Type (Casing / GL)	Depth to water	"D" denotes dry hole	Depth to Base of Hole	Depth to LNAPL	Depth to DNAPL	Atm. pressure (hPa)	Atm. pressure falling (F) / rising (R) / steady (S)	Relative BH pressure (hPa)	Initial Gas Flow (L/hr)	Steady Gas Flow (L/hr)	CH <sub>4</sub> (%v/v) - (Initial)	CH <sub>4</sub> (%v/v) - (Steady)	CO <sub>2</sub> (%v/v) - (Initial)	CO <sub>2</sub> (%v/v) - (Steady)	O <sub>2</sub> (%v/v) - (Initial)	O <sub>2</sub> (%v/v) - (Steady)	CO (ppm)	H <sub>2</sub> S (ppm)	VOC (as ppm using PID)	Notes on condition of borehole (including any
Wider Site R3	10/10/22	17:07	WS217	S	GL	Dry	D	2.02	-	-	1014	R	0.00	-	0.2	0.1	0.1	1.3	1.2	20.1	19.8	0	0	-	
Wider Site R3	10/10/22	10:14	WS218	S	GL	Dry	D	1.77	-	-	1013	R	0.04	-	0.1	0.1	0.1	1.0	1.0	20.7	20.9	0	0	-	
Wider Site R3	10/10/22	11:50	WS219	S	GL	4.07		4.95	-	-	1014	R	0.00	-	0.3	0.1	0.1	1.3	1.3	20.6	20.6	0	0	-	
Wider Site R3	10/10/22	11:44	WS220	S	GL	1.74		2.98	-	-	1014	R	0.05	-	0.1	0.1	0.1	0.6	0.6	20.9	21.1	0	0	-	
Wider Site R3	10/10/22	17:26	WS221	S	GL	Dry	D	1.99	-	-	1014	R	0.04	-	0.3	0.1	0.1	1.0	0.9	19.9	19.9	0	0	-	
Wider Site R3	10/10/22	16:51	WS222	S	GL	Dry	D	2.44	-	-	1014	R	0.04	-	0.2	0.1	0.1	1.0	1.0	20.5	20.5	0	0	-	
Wider Site R3	10/10/22	11:56	WS223	S	GL	Dry	D	1.97	-	-	1014	R	-0.05	-	0.3	0.1	0.1	0.6	0.5	21.3	21.5	0	0	-	
Wider Site R3	10/10/22	12:53	WS224	S	GL	Dry	D	1.36	-	-	1015	R	-0.05	-	0.1	0.1	0.1	0.6	0.5	21.6	21.8	0	0	-	
Wider Site R3	10/10/22	17:24	WS225	S	GL	Dry	D	1.98	-	-	1014	R	-0.02	-	0.3	0.1	0.1	1.0	1.0	20.5	20.5	0	0	-	
Wider Site R3	10/10/22	17:00	WS226	S	GL	Dry	D	1.12	-	-	1014	R	0.04	-	0.2	0.1	0.1	0.4	0.4	20.5	20.5	0	0	-	
Wider Site R3	10/10/22	16:42	WS227	S	GL	Dry	D	2.72	-	-	1014	R	0.02	-	0.2	0.1	0.1	1.0	0.9	20.3	20.3	0	0	-	
Wider Site R3	10/10/22	15:12	WS228	S	GL	Dry	D	0.99	-	-	1014	R	-0.07	-	0.2	0.1	0.1	0.4	0.4	21.0	21.1	0	0	-	
Wider Site R3	10/10/22	15:08	WS229	S	GL	Dry	D	1.95	-	-	1014	R	0.05	-	0.2	0.1	0.1	0.4	0.3	20.5	20.9	0	0	-	
Wider Site R3	10/10/22	12:20	WS230	S	GL	Dry	D	1.10	-	-	1014	R	0.07	-	0.1	0.1	0.1	0.6	0.6	21.5	21.6	0	0	-	
Wider Site R3	10/10/22	16:27	WS231	S	GL	4.50		5.07	-	-	1014	R	0.02	-	0.3	0.1	0.1	1.9	2.0	20.1	20.1	0	0	-	
Wider Site R3	10/10/22	12:05	WS232	S	GL	1.96		2.97	-	-	1014	R	0.18	-	0.2	0.1	0.1	0.6	0.6	21.4	21.6	0	0	-	
Wider Site R3	10/10/22	13:00	WS233	S	GL	1.35		2.25	-	-	1015	R	0.16	-	0.2	0.1	0.1	1.8	1.7	20.5	20.5	0	0	-	
Wider Site R3	10/10/22	13:08	WS234	S	GL	1.25		1.64	-	-	1015	R	0.02	-	0.2	0.1	0.1	0.3	0.3	21.2	21.5	0	0	-	
Wider Site R3	10/10/22	15:46	WS235	S	GL	1.96		4.91	-	-	1014	R	0.16	-	0.2	0.1	0.1	1.2	1.2	20.7	20.6	0	0	-	
Wider Site R3	10/10/22	15:40	WS236	S	GL	1.41		1.96	-	-	1014	R	0.19	-	0.3	0.1	0.1	1.0	1.0	20.3	20.2	0	0	-	
Wider Site R3	10/10/22	15:02	WS237	S	GL	Dry	D	1.01	-	-	1014	R	0.02	-	0.2	0.1	0.1	0.2	0.4	21.2	21.4	0	0	-	
Wider Site R3	10/10/22	16:20	WS238	S	GL	3.90		5.06	-	-	1014	R	0.02	-	0.3	0.1	0.1	1.3	0.9	21.0	21.0	0	0	-	
Wider Site R3	10/10/22	13:23	WS239	S	GL	1.39		2.22	-	-	1015	R	-0.04	-	0.2	0.1	0.1	0.6	0.6	21.2	21.2	0	0	-	
Wider Site R3	10/10/22	13:17	WS240	S	GL	Dry	D	1.10	-	-	1015	R	-0.04	-	0.1	0.1	0.1	1.1	1.0	21.0	21.2	0	0	-	
Wider Site R3	10/10/22	14:33	WS241	S	GL	1.57		1.94	-	-	1016	R	-0.04	-	0.1	0.1	0.1	1.1	1.0	21.1	21.3	0	0	-	
Wider Site R3	10/10/22	15:50	WS242	S	GL	0.72		3.61	-	-	1014	R	0.04	-	0.2	0.1	0.1	1.2	1.2	19.0	18.8	1	0	-	
Wider Site R3	10/10/22	14:56	WS243	S	GL	Dry	D	1.00	-	-	1014	R	0.07	-	0.3	0.1	0.1	0.4	0.4	20.0	20.5	0	0	-	
Wider Site R3	10/10/22	14:37	WS244	S	GL	Dry	D	0.88	-	-	1016	R	-0.07	-	0.3	0.1	0.1	0.5	0.5	21.8	21.8	0	0	-	
Wider Site R3	10/10/22	16:04	WS245	S	GL	1.10		2.56	-	-	1014	R	0.02	-	-0.2	0.1	0.1	0.1	0.3	21.0	21.3	1	0	-	
Wider Site R3	10/10/22	16:14	WS246	S	GL	Dry	D	4.55	-	-	1014	R	0.05	-	0.2	0.1	0.1	0.4	0.8	20.5	21.0	0	0	-	
Wider Site R3	10/10/22	14:43	WS247	S	GL	Dry	D	0.92	-	-	1016	R	0.00	-	0.3	0.1	0.1	1.1	1.1	21.2	21.2	0	0	-	
Wider Site R3	10/10/22	13:32	WS248	S	GL	Dry	D*	1.60	-	-	1015	R	-0.07	-	0.1	0.1	0.1	0.5	0.5	21.2	21.4	0	0	-	
Wider Site R3	10/10/22	13:50	WS249	S	GL	0.07		0.97	-	-	1016	R	0.04	-	0.0	0.1	0.1	0.6	0.6	21.3	21.4	0	0	-	
Wider Site R3	10/10/22	13:41	WS250	S	GL	Dry	D	0.85	-	-	1016	R	0.02	-	0.3	0.1	0.1	0.5	0.5	21.3	21.3	0	0	-	
Wider Site R3	10/10/22	14:09	WS251	S	GL	0.93		1.96	-	-	1016	R	-0.28	-	-0.5	0.1	0.1	1.0	0.9	20.3	20.7	1	0	-	
Wider Site R3	10/10/22	13:58	WS252	S	GL	1.00		5.05	-	-	1014	R	0.12	-	0.2	0.1	0.1	0.8	1.0	20.5	20.6	1	0	-	
Wider Site R4	19/10/22	16:13	BH201	S	GL	4.29		5.00	-	-	1006	F	0.09	-	0.2	0.1	0.1	1.0	0.9	21.5	21.5	0	0	-	OK
Wider Site R4	19/10/22	14:02	BH202	S	GL	3.38		5.24	-	-	1009	F	0.14	-	0.3	0.1	0.1	0.7	0.7	21.1	21.1	0	0	-	OK
Wider Site R4	19/10/22	12:39	BH203	S	GL	3.54		6.00	-	-	1010	F	0.12	-	0.2	0.1	0.1	0.4	0.4	21.1	21.1	0	0	-	OK
Wider Site R4	19/10/22	13:42	BH204	S	GL	2.60		5.10	-	-	1009	F	0.14	-	0.1	0.1	0.1	0.8	0.8	21.1	21.1	0	0	-	OK
Wider Site R4	19/10/22	12:46	BH205	S	GL	1.16		4.12	-	-	1010	F	0.00	-	0.2	0.1	0.1	0.3	0.3	21.3	21.4	0	0	-	OK
Wider Site R4	19/10/22	16:51	WS201	S	GL	Dry	D	1.86	-	-	1006	F	0.19	-	0.2	0.1	0.1	0.6	0.4	20.7	21.9	0	0	-	DRY
Wider Site R4	19/10/22	17:02	WS202	S	GL	1.72		1.97	-	-	1007	F	-0.02	-	0.1	0.1	0.1	0.2	0.2	21.9	21.9	0	0	-	OK
Wider Site R4	19/10/22	15:25	WS203	S	GL	Dry	D	1.99	-	-	1007	F	0.00	-	0.2	0.1	0.1	0.7	0.7	21.4	21.5	0	0	-	DRY
Wider Site R4	19/10/22	15:18	WS204	S	GL	Dry	D	1.00	-	-	1008	F	-0.21	-	0.2	0.1	0.1	0.6	0.4	20.8	20.9	0	0	-	DRY
Wider Site R4	19/10/22	15:33	WS205	S	GL	1.47		2.96	-	-	1007	F	-0.02	-	0.2	0.1	0.1	2.3	2.2	20.0	20.0	0	0	-	OK
Wider Site R4	19/10/22	15:11	WS206	S	GL	2.21		4.30	-	-	1008	F	-0.11	-	0.3	0.1	0.1	1.5	1.5	20.4	20.5	0	0	-	OK
Wider Site R4	19/10/22	15:02	WS207	S	GL	0.81		2.15	-	-	1008	F	0.05	-	-1.7	0.1	0.1	1.9	1.9	20.6	20.7	1	0	-	OK
Wider Site R4	19/10/22	14:52	WS208	S	GL	0.57		2.22	-	-	1008	F	2.98	-	-5.8	0.1	0.1	2.3	2.3	20.0	20.2	3	0	-	OK
Wider Site R4	19/10/22	15:05	WS209	S	GL	1.67		2.99	-	-	1008	F	0.04	-	0.2	0.1	0.1	1.8	1.8	20.5	20.5	0	0	-	OK
Wider Site R4	19/10/22	14:24	WS210	S	GL	0.76		2.60	-	-	1009	F	-0.07	-	-2.6	0.1	0.1	1.3	1.3	20.5	20.6	2	0	-	OK
Wider Site R4	19/10/22	16:42	WS211	S	GL	3.15		3.52	-	-	1006	F	0.16	-	0.1	0.1	0.1	3.5	3.2	18.8	18.9	0	0	-	OK
Wider Site R4	19/10/22	14:36	WS213	S	GL	Dry	D	3.63	-	-	1006	F	0.09	-	0.3	0.1	0.1	1.1	1.1	21.0	21.0	0	0	-	DRY
Wider Site R4	19/10/22	15:41	WS214	S	GL	Dry	D	0.97	-	-	1007	F	0.12	-	0.2	0.1	0.1	0.9	0.9	21.1	21.5	0	0	-	DRY
Wider Site R4	19/10/22	14:43	WS215	S	GL	0.92		2.53	-	-	1009	F	-0.14	-	0.2	0.1	0.1	0.2	0.2	21.4	21.5	0	0	-	OK
Wider Site R4	19/10/22	17:12	WS216	S	GL	Dry	D*	4.05	-	-	1006	F	0.04	-	0.2	0.1	0.1	1.0	1.0	19.0	18.2	0	0	-	OK
Wider Site R4	19/10/22	16:34	WS217	S	GL	Dry	D	2.02	-	-	1006	F	0.02	-	0.2	0.1	0.1	0.6	0.6	21.8	21.8	0	0	-	DRY
Wider Site R4	19/10/22	15:47	WS218	S	GL	Dry	D	1.76	-	-	1007	F	-0.02	-	0.2	0.1	0.1	0.9	0.9	21.4	21.4	0	0	-	DRY
Wider Site R4	19/10/22	14:32	WS219	S	GL	3.92		4.95	-	-	1008	F	0.05	-	0.2	0.1	0.1	1.3	1.3	20.6	20.6	0	0	-	OK
Wider Site R4	19/10/22	14:37	WS220	S	GL	1.73		2.98	-	-	1009	F	0.00	-	0.2	0.1	0.1	0.6	0.6	21.0	21.2	0	0	-	OK
W																									

Monitoring round			Well Details			Water/NAPL Monitoring (m below datum)					Pressure and flow (use < for below LoD)					Gas Concentrations (use < for below LoD)								Local conditions	
Round Reference	Date	Time	Well ID	Single or dual gas tap (S/D)	Datum Type (Casing / GL)	Depth to water	"D" denotes dry hole	Depth to Base of Hole	Depth to LNAPL	Depth to DNAPL	Atm. pressure (hPa)	Atm. pressure falling (F) / rising (R)/ steady (S)	Relative BH pressure (hPa)	Initial Gas Flow (L/hr)	Steady Gas Flow (L/hr)	CH <sub>4</sub> (%v/v) - (Initial)	CH <sub>4</sub> (%v/v) - (Steady)	CO <sub>2</sub> (%v/v) - (Initial)	CO <sub>2</sub> (%v/v) - (Steady)	O <sub>2</sub> (%v/v) - (Initial)	O <sub>2</sub> (%v/v) - (Steady)	CO (ppm)	H <sub>2</sub> S (ppm)	VOC (as ppm using PID)	Notes on condition of borehole (including any)
Wider Site R4	19/10/22	16:08	WS226	S	GL	Dry	D	1.14	-	-	998	F	0.09	-	0.2	0.1	0.1	0.4	0.3	21.8	21.8	0	0	-	DRY
Wider Site R4	19/10/22	16:00	WS227	S	GL	Dry	D	2.72	-	-	1006	F	0.00	-	0.2	0.1	0.1	0.9	0.9	21.6	21.6	0	0	-	DRY
Wider Site R4	19/10/22	12:32	WS228	S	GL	Dry	D	0.99	-	-	1010	F	-0.07	-	0.1	0.1	0.1	0.5	0.5	21.2	21.3	0	0	-	DRY
Wider Site R4	19/10/22	12:28	WS229	S	GL	Dry	D	1.95	-	-	1010	F	-0.12	-	0.2	0.1	0.1	0.6	0.6	21.2	21.4	0	0	-	DRY
Wider Site R4	19/10/22	16:21	WS230	S	GL	Dry	D	1.10	-	-	1007	F	0.04	-	0.2	0.1	0.1	0.6	0.6	21.7	21.7	0	0	-	DRY
Wider Site R4	19/10/22	12:05	WS231	S	GL	4.55		5.07	-	-	1011	F	0.14	-	0.2	0.1	0.1	2.2	2.2	20.1	20.1	0	0	-	OK
Wider Site R4	19/10/22	14:08	WS232	S	GL	1.45		2.97	-	-	1009	F	0.12	-	0.2	0.1	0.1	0.6	0.6	21.1	21.3	0	0	-	OK
Wider Site R4	19/10/22	11:37	WS233	S	GL	1.35		2.25	-	-	1011	F	0.14	-	0.2	0.1	0.1	1.8	1.8	20.3	20.3	0	0	-	OK
Wider Site R4	19/10/22	11:45	WS234	S	GL	1.22		1.64	-	-	1011	F	-0.05	-	0.2	0.1	0.1	0.4	0.4	20.9	21.3	0	0	-	OK
Wider Site R4	19/10/22	12:54	WS235	S	GL	1.41		4.91	-	-	1010	F	0.16	-	0.2	0.1	0.1	1.3	1.3	20.7	20.7	0	0	-	OK
Wider Site R4	19/10/22	13:00	WS236	S	GL	Dry	D	1.96	-	-	1010	F	0.19	-	0.2	0.1	0.1	1.8	1.8	20.2	20.2	0	0	-	DRY
Wider Site R4	19/10/22	12:22	WS237	S	GL	Dry	D	1.01	-	-	1010	F	0.02	-	0.2	0.1	0.1	0.4	0.4	21.3	21.4	0	0	-	DRY
Wider Site R4	19/10/22	12:10	WS238	S	GL	3.97		5.06	-	-	1010	F	0.16	-	0.2	0.1	0.1	2.0	2.0	20.0	20.0	0	0	-	OK
Wider Site R4	19/10/22	11:27	WS239	S	GL	1.37		2.22	-	-	1012	F	0.05	-	0.3	0.1	0.1	0.6	0.6	21.2	21.3	0	0	-	OK
Wider Site R4	19/10/22	11:32	WS240	S	GL	Dry	D	1.10	-	-	1012	F	0.09	-	0.3	0.1	0.1	1.0	1.0	20.9	21.0	0	0	-	DRY
Wider Site R4	19/10/22	10:28	WS241	S	GL	1.54		1.94	-	-	1013	F	0.18	-	0.3	0.1	0.1	1.6	1.6	19.6	19.7	0	0	-	OK
Wider Site R4	19/10/22	13:09	WS242	S	GL	0.72		3.61	-	-	1010	F	0.21	-	-3.8	0.1	0.1	2.3	2.3	18.8	18.8	1	0	-	OK
Wider Site R4	19/10/22	12:16	WS243	S	GL	Dry	D	1.00	-	-	1010	F	0.16	-	0.2	0.1	0.1	0.7	0.6	20.9	21.1	0	0	-	DRY
Wider Site R4	19/10/22	13:58	WS244	S	GL	Dry	D	0.88	-	-	1010	F	0.00	-	0.1	0.1	0.1	0.3	0.3	21.1	21.5	0	0	-	DRY
Wider Site R4	19/10/22	13:25	WS245	S	GL	1.10		2.56	-	-	1010	F	0.16	-	-0.2	0.1	0.1	0.3	0.3	21.3	21.5	1	0	-	OK
Wider Site R4	19/10/22	13:38	WS246	S	GL	1.43		4.55	-	-	1010	F	0.05	-	0.1	0.1	0.1	0.8	0.8	21.0	21.1	0	0	-	OK
Wider Site R4	19/10/22	13:47	WS247	S	GL	Dry	D*	0.92	-	-	1010	F	0.07	-	0.1	0.1	0.1	1.2	1.2	20.5	20.7	0	0	-	OK
Wider Site R4	19/10/22	11:16	WS248	S	GL	Dry	D*	1.60	-	-	1012	F	-0.05	-	0.3	0.1	0.1	0.5	0.5	21.2	21.3	0	0	-	OK
Wider Site R4	19/10/22	11:03	WS249	S	GL	Dry	D	0.95	-	-	1012	F	0.04	-	0.1	0.1	0.1	0.4	0.4	21.2	21.2	0	0	-	DRY
Wider Site R4	19/10/22	11:09	WS250	S	GL	Dry	D	0.86	-	-	1012	F	0.18	-	0.2	0.1	0.1	0.5	0.5	21.2	21.3	0	0	-	DRY
Wider Site R4	19/10/22	10:38	WS251	S	GL	0.84		1.96	-	-	1013	F	-0.16	-	-0.5	0.1	0.1	1.4	1.4	19.2	19.2	1	0	-	OK
Wider Site R4	19/10/22	10:51	WS252	S	GL	0.90		5.05	-	-	1012	F	-0.02	-	-5.2	0.1	0.1	1.0	0.9	20.3	20.6	1	0	-	OK
Wider Site R5	26/10/22	15:43	BH201	S	GL	4.27		5.00	-	-	1004	R	0.11	-	0.3	0.1	0.1	0.8	0.7	20.8	20.8	0	0	-	OK
Wider Site R5	26/10/22	13:35	BH202	S	GL	3.33		5.24	-	-	1003	R	-0.05	-	0.2	0.1	0.1	0.8	0.8	19.9	20.1	0	0	-	OK
Wider Site R5	25/10/22	13:14	BH203	S	GL	3.21		6.00	-	-	1005	R	-0.02	-	0.3	0.1	0.1	0.8	0.8	19.7	19.8	0	0	-	OK
Wider Site R5	25/10/22	13:45	BH204	S	GL	2.48		5.10	-	-	997	R	-0.07	-	0.1	0.1	0.1	0.8	0.8	20.3	20.4	0	0	-	OK
Wider Site R5	25/10/22	13:21	BH205	S	GL	0.73		4.12	-	-	1005	R	0.02	-	-3.6	0.1	0.1	0.7	0.6	20.6	20.9	1	0	-	OK
Wider Site R5	25/10/22	11:36	WS201	S	GL	Dry	D	1.86	-	-	1004	R	0.11	-	0.1	0.1	0.1	1.3	0.7	19.9	20.3	0	0	-	DRY
Wider Site R5	25/10/22	11:42	WS202	S	GL	1.14		1.99	-	-	1005	R	0.12	-	0.2	0.1	0.1	0.6	0.6	20.4	20.5	0	0	-	OK
Wider Site R5	26/10/22	14:42	WS203	S	GL	Dry	D	1.99	-	-	1004	R	0.18	-	0.3	0.1	0.1	0.6	0.6	20.7	20.7	0	0	-	DRY
Wider Site R5	26/10/22	14:34	WS204	S	GL	Dry	D	1.00	-	-	1004	R	-0.02	-	0.2	0.1	0.1	0.2	0.2	21.3	21.4	0	0	-	DRY
Wider Site R5	26/10/22	14:48	WS205	S	GL	1.03		2.96	-	-	1004	R	0.07	-	0.2	0.1	0.1	1.7	1.6	20.1	20.3	0	0	-	OK
Wider Site R5	26/10/22	15:07	WS206	S	GL	1.74		4.30	-	-	1004	R	0.04	-	0.3	0.1	0.1	1.6	1.6	19.0	19.0	0	0	-	OK
Wider Site R5	26/10/22	14:28	WS207	S	GL	0.59		2.15	-	-	1004	R	-0.58	-	-2.3	0.1	0.1	1.5	1.5	20.5	20.5	2	0	-	OK
Wider Site R5	26/10/22	14:23	WS208	S	GL	0.43		2.22	-	-	1004	R	15.96	-	0.6	0.1	0.1	1.7	1.7	20.2	20.3	3	0	-	OK
Wider Site R5	26/10/22	15:02	WS209	S	GL	1.52		2.99	-	-	1004	R	0.05	-	0.2	0.1	0.1	1.6	1.6	19.9	19.9	0	0	-	OK
Wider Site R5	26/10/22	14:15	WS210	S	GL	0.53		2.60	-	-	1004	R	11.62	-	0.2	0.1	0.1	1.3	1.3	20.3	20.4	2	0	-	OK
Wider Site R5	25/10/22	11:27	WS211	S	GL	3.10		3.52	-	-	1004	R	0.23	-	0.2	0.1	0.1	3.3	3.3	18.1	18.1	0	0	-	OK
Wider Site R5	26/10/22	14:54	WS213	S	GL	Dry	D	3.63	-	-	1004	R	0.00	-	0.3	0.1	0.1	0.5	0.5	20.6	20.7	0	0	-	DRY
Wider Site R5	26/10/22	15:14	WS214	S	GL	Dry	D	0.97	-	-	1004	R	0.02	-	0.2	0.1	0.1	0.9	0.9	20.2	20.4	0	0	-	DRY
Wider Site R5	26/10/22	14:09	WS215	S	GL	0.57		2.53	-	-	1004	R	9.63	-	-1.7	0.1	0.1	0.6	0.6	20.7	20.7	1	0	-	OK
Wider Site R5	25/10/22	10:56	WS216	S	GL	Dry	D*	4.05	-	-	1005	R	-0.14	-	0.2	0.1	0.1	1.5	1.5	19.7	19.8	0	0	-	OK
Wider Site R5	25/10/22	11:53	WS217	S	GL	Dry	D	2.02	-	-	1004	R	-0.11	-	0.3	0.1	0.1	1.5	1.4	19.8	19.9	0	0	-	DRY
Wider Site R5	26/10/22	15:19	WS218	S	GL	Dry	D	1.76	-	-	1004	R	-0.07	-	0.2	0.1	0.1	1.0	1.0	20.4	20.6	0	0	-	DRY
Wider Site R5	26/10/22	13:55	WS219	S	GL	3.82		4.95	-	-	1003	R	-0.05	-	0.3	0.1	0.1	1.0	1.0	19.8	19.9	0	0	-	OK
Wider Site R5	26/10/22	13:50	WS220	S	GL	1.42		2.98	-	-	1004	R	0.07	-	0.3	0.1	0.1	0.6	0.6	19.7	19.8	0	0	-	OK
Wider Site R5	25/10/22	11:03	WS221	S	GL	Dry	D	1.99	-	-	1004	R	0.07	-	0.2	0.1	0.1	1.4	1.4	19.8	19.9	0	0	-	DRY
Wider Site R5	26/10/22	15:25	WS222	S	GL	Dry	D	2.44	-	-	1004	R	-0.09	-	0.2	0.1	0.1	0.7	0.7	20.7	20.8	0	0	-	DRY
Wider Site R5	26/10/22	14:01	WS223	S	GL	Dry	D	1.98	-	-	1003	R	0.09	-	0.1	0.1	0.1	0.5	0.5	20.4	20.5	0	0	-	DRY
Wider Site R5	26/10/22	13:22	WS224	S	GL	0.95		1.36	-	-	1003	R	0.07	-	0.1	0.1	0.1	0.3	0.2	19.9	21.0	0	0	-	OK
Wider Site R5	25/10/22	11:09	WS225	S	GL	Dry	D	1.98	-	-	1005	R	0.02	-	0.1	0.1	0.1	1.0	1.0	19.9	20.0	0	0	-	DRY
Wider Site R5	26/10/22	15:38	WS226	S	GL	Dry	D	1.14	-	-	1004	R	0.04	-	0.2	0.1	0.1	0.5	0.5	20.5	20.5	0	0	-	DRY
Wider Site R5	26/10/22	15:30	WS227	S	GL	Dry	D	2.72	-	-	1004	R	0.19	-	0.2	0.1	0.1	0.8	0.8	20.8	20.8	0	0	-	DRY
Wider Site R5	25/10/22	13:06	WS228	S	GL	Dry	D	0.99	-	-	1004	R	0.00	-	0.3	0.1	0.1	0.7	0.7	20.0	20.0	0	0	-	DRY
Wider Site R5	25/10/22	12:57	WS229	S	GL	Dry	D	1.95	-	-	1004	R	0.09	-	0										

Monitoring round			Well Details			Water/NAPL Monitoring (m below datum)					Pressure and flow (use < for below LoD)					Gas Concentrations (use < for below LoD)							Local conditions		
Round Reference	Date	Time	Well ID	Single or dual gas tap (S/D)	Datum Type (Casing / GL)	Depth to water	"D" denotes dry hole	Depth to Base of Hole	Depth to LNAPL	Depth to DNAPL	Atm. pressure (hPa)	Atm. pressure falling (F) / rising (R)/ steady (S)	Relative BH pressure (hPa)	Initial Gas Flow (L/hr)	Steady Gas Flow (L/hr)	CH <sub>4</sub> (%v/v) - (Initial)	CH <sub>4</sub> (%v/v) - (Steady)	CO <sub>2</sub> (%v/v) - (Initial)	CO <sub>2</sub> (%v/v) - (Steady)	O <sub>2</sub> (%v/v) - (Initial)	O <sub>2</sub> (%v/v) - (Steady)	CO (ppm)	H <sub>2</sub> S (ppm)	VOC (as ppm using PID)	Notes on condition of borehole (including any)
Wider Site R5	25/10/22	12:12	WS235	S	GL	1.23		4.91	-	-	1005	R	0.16	-	0.3	0.1	0.1	1.7	1.7	19.0	19.0	0	0	-	OK
Wider Site R5	25/10/22	12:06	WS236	S	GL	Dry	D	1.96	-	-	1005	R	0.02	-	0.3	0.1	0.1	1.9	1.9	19.2	19.2	0	0	-	DRY
Wider Site R5	25/10/22	12:52	WS237	S	GL	Dry	D	1.01	-	-	1004	R	0.12	-	0.4	0.1	0.1	0.4	0.4	20.4	20.5	0	0	-	DRY
Wider Site R5	25/10/22	12:40	WS238	S	GL	3.90		5.06	-	-	1005	R	-0.14	-	0.2	0.1	0.1	2.2	2.2	19.6	19.7	0	0	-	OK
Wider Site R5	26/10/22	12:55	WS239	S	GL	1.27		2.22	-	-	1003	R	0.02	-	0.3	0.1	0.1	0.7	0.7	19.8	19.9	0	0	-	OK
Wider Site R5	26/10/22	13:00	WS240	S	GL	Dry	D	1.10	-	-	1003	R	0.09	-	0.3	0.1	0.1	1.1	1.1	19.7	19.8	0	0	-	DRY
Wider Site R5	26/10/22	11:59	WS241	S	GL	1.36		1.94	-	-	1002	R	0.16	-	0.2	0.1	0.1	1.2	1.2	19.9	19.9	0	0	-	OK
Wider Site R5	25/10/22	12:17	WS242	S	GL	0.52		3.61	-	-	1005	R	19.09	-	1.0	0.1	0.1	2.4	2.4	18.6	18.8	1	0	-	OK
Wider Site R5	25/10/22	12:46	WS243	S	GL	Dry	D	1.00	-	-	1004	R	-0.02	-	0.3	0.1	0.1	0.6	0.6	20.3	20.3	0	0	-	DRY
Wider Site R5	25/10/22	14:00	WS244	S	GL	Dry	D	0.88	-	-	1005	R	-0.18	-	0.3	0.1	0.1	0.5	0.5	19.7	19.8	0	0	-	DRY
Wider Site R5	25/10/22	13:26	WS245	S	GL	0.63		2.56	-	-	1005	R	0.04	-	-4.5	0.1	0.1	0.8	0.8	20.9	20.9	1	0	-	OK
Wider Site R5	25/10/22	13:35	WS246	S	GL	1.14		4.55	-	-	1005	R	0.14	-	-2.2	0.1	0.1	1.0	1.0	20.2	20.3	0	0	-	OK
Wider Site R5	25/10/22	13:53	WS247	S	GL	0.71		0.92	-	-	1005	R	0.05	-	0.1	0.1	0.1	1.2	1.2	18.5	18.8	0	0	-	OK
Wider Site R5	26/10/22	12:44	WS248	S	GL	1.37		1.60	-	-	1003	R	0.07	-	0.3	0.1	0.1	0.7	0.7	20.0	20.1	0	0	-	OK
Wider Site R5	26/10/22	12:30	WS249	S	GL	Dry	D	0.95	-	-	1003	R	0.11	-	0.2	0.1	0.1	1.1	1.1	19.3	19.3	0	0	-	DRY
Wider Site R5	26/10/22	12:37	WS250	S	GL	Dry	D	0.86	-	-	1003	R	-0.04	-	0.3	0.1	0.1	0.6	0.6	19.8	19.8	0	0	-	DRY
Wider Site R5	26/10/22	12:08	WS251	S	GL	0.54		1.96	-	-	1003	R	-3.08	-	-1.4	0.1	0.1	1.3	1.1	19.2	19.4	1	0	-	OK
Wider Site R5	26/10/22	12:20	WS252	S	GL	0.48		5.05	-	-	1003	R	-2.38	-	-4.9	0.1	0.1	1.2	1.2	19.5	19.6	1	0	-	OK
Wider Site R6	02/11/22	14:15	BH201	S	GL	4.20		5.80	-	-	1003	R	0.00	-	0.1	0.1	0.1	0.9	0.9	20.3	20.3	0	0	-	
Wider Site R6	02/11/22	11:48	BH202	S	GL	3.27		5.15	-	-	1006	R	0.09	-	0.1	0.1	0.1	1.1	1.1	19.2	19.5	0	0	-	
Wider Site R6	01/11/22	14:43	BH203	S	GL	3.16		5.00	-	-	998	F	0.12	-	0.2	0.1	0.1	0.8	0.8	20.1	20.1	0	0	-	
Wider Site R6	01/11/22	15:09	BH204	S	GL	2.43		5.18	-	-	998	F	-0.02	-	0.2	0.1	0.1	0.9	0.9	19.7	19.9	0	0	-	
Wider Site R6	01/11/22	14:51	BH205	S	GL	0.69		4.16	-	-	999	F	0.12	-	-2.9	0.1	0.1	0.3	0.3	20.9	21.1	1	0	-	
Wider Site R6	02/11/22	11:16	WS201	S	GL	Dry	D	1.90	-	-	1006	R	0.00	-	0.1	0.1	0.1	2.9	0.8	19.4	19.8	0	0	-	Dry
Wider Site R6	02/11/22	11:21	WS202	S	GL	1.05		2.00	-	-	1006	R	0.00	-	-4.5	0.1	0.1	1.2	1.2	19.7	19.7	0	0	-	
Wider Site R6	02/11/22	13:04	WS203	S	GL	Dry	D	2.00	-	-	1005	R	0.00	-	0.1	0.1	0.1	0.7	0.7	20.0	20.2	0	0	-	Dry
Wider Site R6	02/11/22	12:54	WS204	S	GL	Dry	D	1.00	-	-	1005	R	-0.12	-	0.1	0.1	0.1	0.2	0.2	20.9	20.9	0	0	-	Dry
Wider Site R6	02/11/22	13:10	WS205	S	GL	0.95		3.11	-	-	1004	R	0.00	-	0.1	0.1	0.1	0.9	0.8	20.2	20.5	1	0	-	
Wider Site R6	02/11/22	13:30	WS206	S	GL	1.64		4.20	-	-	1004	R	-0.21	-	0.1	0.1	0.1	2.0	2.0	18.2	18.2	0	0	-	
Wider Site R6	02/11/22	12:47	WS207	S	GL	0.57		2.20	-	-	1006	R	0.07	-	-4.0	0.1	0.1	1.3	1.3	20.1	20.2	0	0	-	
Wider Site R6	02/11/22	12:41	WS208	S	GL	0.38		2.15	-	-	1006	R	2.45	-	-6.1	0.1	0.1	1.7	1.7	19.8	19.8	0	0	-	
Wider Site R6	02/11/22	13:27	WS209	S	GL	1.47		3.00	-	-	1004	R	0.09	-	0.1	0.1	0.1	2.0	2.0	18.6	18.8	0	0	-	
Wider Site R6	02/11/22	12:33	WS210	S	GL	0.50		2.60	-	-	1006	R	1.44	-	-6.1	0.1	0.1	1.3	1.3	19.7	20.0	0	0	-	
Wider Site R6	02/11/22	11:09	WS211	S	GL	3.05		3.40	-	-	1007	R	0.04	-	0.1	0.1	0.1	3.5	3.3	17.3	17.4	0	0	-	
Wider Site R6	02/11/22	13:18	WS213	S	GL	Dry	D	3.65	-	-	1004	R	0.00	-	0.1	0.1	0.1	0.6	0.6	19.8	20.1	0	0	-	Dry
Wider Site R6	02/11/22	13:45	WS214	S	GL	Dry	D	1.00	-	-	1004	R	0.00	-	0.1	0.1	0.1	1.2	1.2	19.4	19.4	0	0	-	Dry
Wider Site R6	02/11/22	12:25	WS215	S	GL	0.54		2.50	-	-	1006	R	2.40	-	0.1	0.1	0.1	1.0	1.0	20.2	20.2	0	0	-	
Wider Site R6	02/11/22	10:36	WS216	S	GL	3.90		4.20	-	-	1006	R	-0.07	-	0.1	0.1	0.1	0.9	0.9	19.9	19.9	0	0	-	
Wider Site R6	02/11/22	11:36	WS217	S	GL	Dry	D	2.05	-	-	1006	R	0.00	-	0.1	0.1	0.1	1.8	1.8	19.1	19.4	0	0	-	Dry
Wider Site R6	02/11/22	13:51	WS218	S	GL	Dry	D	1.80	-	-	1003	R	0.00	-	0.1	0.1	0.1	1.1	1.1	19.6	19.7	0	0	-	Dry
Wider Site R6	02/11/22	12:10	WS219	S	GL	3.72		5.00	-	-	1006	R	0.04	-	0.1	0.1	0.1	1.4	1.4	19.2	19.2	0	0	-	
Wider Site R6	02/11/22	12:04	WS220	S	GL	1.38		3.00	-	-	1006	R	1.38	-	0.1	0.1	0.1	0.8	0.8	19.2	19.2	0	0	-	
Wider Site R6	02/11/22	10:49	WS221	S	GL	Dry	D	2.05	-	-	1007	R	0.00	-	0.1	0.1	0.1	1.6	1.6	19.2	19.2	0	0	-	Dry
Wider Site R6	02/11/22	13:58	WS222	S	GL	Dry	D	2.53	-	-	1003	R	0.14	-	0.1	0.1	0.1	0.8	0.8	19.8	20.1	0	0	-	Dry
Wider Site R6	02/11/22	12:16	WS223	S	GL	Dry	D	2.00	-	-	1006	R	0.07	-	0.1	0.1	0.1	0.6	0.6	19.6	19.6	0	0	-	Dry
Wider Site R6	01/11/22	13:48	WS224	S	GL	1.04		1.40	-	-	998	F	0.11	-	0.3	0.1	0.1	0.4	0.1	20.3	21.0	0	0	-	OK
Wider Site R6	02/11/22	10:56	WS225	S	GL	Dry	D	2.00	-	-	1007	R	0.00	-	0.1	0.1	0.1	1.2	1.2	19.3	19.3	0	0	-	Dry
Wider Site R6	02/11/22	14:10	WS226	S	GL	Dry	D	1.10	-	-	1003	R	0.00	-	0.1	0.1	0.1	0.7	0.7	19.9	19.9	0	0	-	Dry
Wider Site R6	02/11/22	14:04	WS227	S	GL	Dry	D	2.80	-	-	1003	R	0.00	-	0.1	0.1	0.1	0.8	0.8	20.2	20.2	0	0	-	Dry
Wider Site R6	01/11/22	14:36	WS228	S	GL	Dry	D	1.01	-	-	998	F	0.02	-	0.2	0.1	0.1	0.9	0.9	19.6	19.7	0	0	-	DRY
Wider Site R6	01/11/22	14:32	WS229	S	GL	Dry	D	1.00	-	-	998	F	0.05	-	0.2	0.1	0.1	0.7	0.7	20.4	20.6	0	0	-	DRY
Wider Site R6	02/11/22	14:22	WS230	S	GL	Dry	D	1.10	-	-	1003	R	0.00	-	0.1	0.1	0.1	0.8	0.8	19.7	19.7	0	0	-	Dry
Wider Site R6	01/11/22	14:12	WS231	S	GL	4.47		5.18	-	-	998	F	0.07	-	0.2	0.1	0.1	2.7	2.7	17.9	17.9	0	0	-	OK
Wider Site R6	02/11/22	11:56	WS232	S	GL	1.27		3.00	-	-	1006	R	0.00	-	0.1	0.1	0.1	0.7	0.7	19.5	19.7	0	0	-	
Wider Site R6	01/11/22	13:40	WS233	S	GL	1.19		2.35	-	-	999	F	0.00	-	0.1	0.1	0.1	2.0	2.0	18.9	19.2	0	0	-	OK
Wider Site R6	01/11/22	13:55	WS234	S	GL	1.03		1.68	-	-	999	F	0.05	-	0.3	0.1	0.1	0.3	0.3	20.6	20.6	0	0	-	OK
Wider Site R6	01/11/22	11:53	WS235	S	GL	1.20		5.06	-	-	999	F	0.02	-	0.2	0.1	0.1	1.7	1.6	17.5	17.5	0	0	-	OK
Wider Site R6	01/11/22	11:47	WS236	S	GL	Dry	D	2.00	-	-	998	F	-0.02	-	0.2	0.1	0.1	0.6	0.6	19.9	19.9	0	0	-	DRY
Wider Site R6	01/11/22	14:28	WS237	S	GL	Dry	D	1.05	-	-	998	F	-0.04	-	0.3	0.1	0.1	0.5	0.5	20.3	20.3	0	0	-	DRY
Wider Site R6	01/11/22	14:16	WS238	S	GL	3.88		4.97	-	-	998	F	0.00	-	0.2	0.1	0.1	2.2	2.1	18.9	19.0</				

Monitoring round			Well Details			Water/NAPL Monitoring (m below datum)					Pressure and flow (use < for below LoD)					Gas Concentrations (use < for below LoD)								Local conditions	
Round Reference	Date	Time	Well ID	Single or dual gas tap (S/D)	Datum Type (Casing / GL)	Depth to water	"D" denotes dry hole	Depth to Base of Hole	Depth to LNAPL	Depth to DNAPL	Atm. pressure (hPa)	Atm. pressure falling (F) / rising (R) / steady (S)	Relative BH pressure (hPa)	Initial Gas Flow (L/hr)	Steady Gas Flow (L/hr)	CH <sub>4</sub> (%v/v) - (Initial)	CH <sub>4</sub> (%v/v) - (Steady)	CO <sub>2</sub> (%v/v) - (Initial)	CO <sub>2</sub> (%v/v) - (Steady)	O <sub>2</sub> (%v/v) - (Initial)	O <sub>2</sub> (%v/v) - (Steady)	CO (ppm)	H <sub>2</sub> S (ppm)	VOC (as ppm using PID)	Notes on condition of borehole (including any)
Wider Site R6	01/11/22	15:19	WS244	S	GL	Dry	D	0.93	-	-	999	F	0.00	-	0.3	0.1	0.1	0.7	0.7	19.3	19.5	0	0	-	DRY
Wider Site R6	01/11/22	14:57	WS245	S	GL	0.61		2.58	-	-	999	F	-0.02	-	-6.5	0.1	0.1	0.6	0.6	20.9	21.0	1	0	-	OK
Wider Site R6	01/11/22	15:03	WS246	S	GL	1.11		4.49	-	-	999	F	2.78	-	-3.3	0.1	0.1	0.9	0.9	18.9	18.9	0	0	-	OK
Wider Site R6	01/11/22	15:14	WS247	S	GL	0.67		0.93	-	-	999	F	0.28	-	0.2	0.1	0.1	1.6	1.6	16.9	16.9	0	0	-	OK
Wider Site R6	01/11/22	13:08	WS248	S	GL	1.34		1.65	-	-	999	F	0.14	-	0.3	0.1	0.1	0.9	0.9	19.8	19.8	0	0	-	OK
Wider Site R6	01/11/22	12:54	WS249	S	GL	Dry	D	1.00	-	-	999	F	0.04	-	0.2	0.1	0.1	1.3	1.3	19.3	19.3	0	0	-	DRY
Wider Site R6	01/11/22	13:00	WS250	S	GL	Dry	D	0.89	-	-	999	F	1.39	-	0.3	0.1	0.1	0.8	0.8	19.8	19.8	0	0	-	DRY
Wider Site R6	01/11/22	12:28	WS251	S	GL	0.50		2.00	-	-	999	F	1.44	-	-1.0	0.1	0.1	1.0	1.0	19.4	19.4	2	0	-	OK
Wider Site R6	01/11/22	12:40	WS252	S	GL	0.47		5.18	-	-	999	F	6.53	-	-2.5	0.2	0.2	1.2	1.2	19.5	19.5	1	0	-	OK
Wider Site R7	17/11/22	13:55	BH201	S	GL	4.19		5.86	-	-	1004	F	0.11	-	0.3	0.1	0.1	0.8	0.7	20.8	20.8	0	0	-	OK
Wider Site R7	17/11/22	11:47	BH202	S	GL	3.26		5.15	-	-	1004	F	0.09	-	0.1	0.1	0.1	1.1	1.1	19.2	19.5	0	0	-	OK
Wider Site R7	16/11/22	15:27	BH203	S	GL	3.15		5.00	-	-	981	F	-0.02	-	0.3	0.1	0.1	0.8	0.8	19.7	19.8	0	0	-	OK
Wider Site R7	16/11/22	15:58	BH204	S	GL	2.42		5.18	-	-	981	F	-0.07	-	0.1	0.1	0.1	0.8	0.8	20.3	20.4	0	0	-	OK
Wider Site R7	16/11/22	15:34	BH205	S	GL	0.68		4.16	-	-	981	F	0.02	-	-3.6	0.1	0.1	0.7	0.6	20.6	20.9	1	0	-	OK
Wider Site R7	17/11/22	14:47	WS201	S	GL	Dry	D	1.90	-	-	1004	F	-0.07	-	0.1	0.1	0.1	2.9	0.8	19.4	19.8	0	0	-	DRY
Wider Site R7	17/11/22	14:53	WS202	S	GL	1.04		2.00	-	-	1004	F	0.12	-	0.2	0.1	0.1	0.6	0.6	20.4	20.5	0	0	-	OK
Wider Site R7	17/11/22	12:54	WS203	S	GL	Dry	D	2.00	-	-	1004	F	-0.04	-	0.1	0.1	0.1	0.7	0.7	20.0	20.2	0	0	-	DRY
Wider Site R7	17/11/22	12:46	WS204	S	GL	Dry	D	1.00	-	-	1004	F	-0.02	-	0.2	0.1	0.1	0.2	0.2	21.3	21.4	0	0	-	DRY
Wider Site R7	17/11/22	13:00	WS205	S	GL	0.94		3.00	-	-	1004	F	0.02	-	0.1	0.1	0.1	0.9	0.8	20.2	20.5	1	0	-	OK
Wider Site R7	17/11/22	13:19	WS206	S	GL	1.63		4.20	-	-	1004	F	0.04	-	0.3	0.1	0.1	1.6	1.6	19.0	19.0	0	0	-	OK
Wider Site R7	17/11/22	12:40	WS207	S	GL	0.55		2.20	-	-	1004	F	0.07	-	-4.0	0.1	0.1	1.3	1.3	20.1	20.2	1	0	-	OK
Wider Site R7	17/11/22	12:35	WS208	S	GL	0.29		2.15	-	-	1004	F	2.45	-	-6.1	0.1	0.1	1.7	1.7	19.8	19.8	3	0	-	OK
Wider Site R7	17/11/22	13:14	WS209	S	GL	1.20		3.00	-	-	1004	F	0.05	-	0.2	0.1	0.1	1.6	1.6	19.9	19.9	0	0	-	OK
Wider Site R7	17/11/22	12:27	WS210	S	GL	0.36		2.60	-	-	1004	F	1.44	-	-6.1	0.1	0.1	1.3	1.3	19.7	20.0	3	0	-	OK
Wider Site R7	17/11/22	14:38	WS211	S	GL	2.20		3.40	-	-	1004	F	0.23	-	0.2	0.1	0.1	3.3	3.3	18.1	18.1	0	0	-	OK
Wider Site R7	17/11/22	13:06	WS213	S	GL	Dry	D	3.65	-	-	1004	F	0.00	-	0.3	0.1	0.1	0.5	0.5	20.6	20.7	0	0	-	DRY
Wider Site R7	17/11/22	13:26	WS214	S	GL	Dry	D	1.00	-	-	1004	F	0.02	-	0.1	0.1	0.1	1.2	1.2	19.4	19.4	0	0	-	DRY
Wider Site R7	17/11/22	12:21	WS215	S	GL	0.40		2.50	-	-	1004	F	2.40	-	0.1	0.1	0.1	1.0	1.0	20.2	20.2	2	0	-	OK
Wider Site R7	17/11/22	14:15	WS216	S	GL	3.85		4.20	-	-	1004	F	-0.07	-	0.1	0.1	0.1	0.9	0.9	19.9	19.9	0	0	-	OK
Wider Site R7	17/11/22	15:02	WS217	S	GL	Dry	D	2.05	-	-	1004	F	-0.05	-	0.1	0.1	0.1	1.8	1.8	19.1	19.4	0	0	-	DRY
Wider Site R7	17/11/22	13:31	WS218	S	GL	Dry	D	1.80	-	-	1004	F	-0.07	-	0.2	0.1	0.1	1.0	1.0	20.4	20.6	0	0	-	DRY
Wider Site R7	17/11/22	12:07	WS219	S	GL	3.34		5.00	-	-	1004	F	0.04	-	0.1	0.1	0.1	1.4	1.4	19.2	19.2	0	0	-	OK
Wider Site R7	17/11/22	12:02	WS220	S	GL	1.20		3.00	-	-	1004	F	0.07	-	0.3	0.1	0.1	0.6	0.6	19.7	19.8	0	0	-	OK
Wider Site R7	17/11/22	14:22	WS221	S	GL	Dry	D	2.05	-	-	1004	F	0.00	-	0.1	0.1	0.1	1.6	1.6	19.2	19.2	0	0	-	DRY
Wider Site R7	17/11/22	13:37	WS222	S	GL	Dry	D	2.50	-	-	1004	F	-0.09	-	0.2	0.1	0.1	0.7	0.7	20.7	20.8	0	0	-	DRY
Wider Site R7	17/11/22	12:13	WS223	S	GL	Dry	D	2.00	-	-	1004	F	0.07	-	0.1	0.1	0.1	0.6	0.6	19.6	19.6	0	0	-	DRY
Wider Site R7	17/11/22	11:34	WS224	S	GL	0.84		1.40	-	-	1004	F	0.07	-	0.1	0.1	0.1	0.3	0.2	19.9	21.0	0	0	-	OK
Wider Site R7	17/11/22	14:28	WS225	S	GL	Dry	D	2.00	-	-	1004	F	0.02	-	0.1	0.1	0.1	1.0	1.0	19.9	20.0	0	0	-	DRY
Wider Site R7	17/11/22	13:50	WS226	S	GL	Dry	D	1.10	-	-	1004	F	0.00	-	0.1	0.1	0.1	0.7	0.7	19.9	19.9	0	0	-	DRY
Wider Site R7	17/11/22	13:42	WS227	S	GL	Dry	D	2.80	-	-	1004	F	0.19	-	0.2	0.1	0.1	0.8	0.8	20.8	20.8	0	0	-	DRY
Wider Site R7	16/11/22	15:19	WS228	S	GL	Dry	D	1.01	-	-	981	F	0.02	-	0.2	0.1	0.1	0.9	0.9	19.6	19.7	0	0	-	DRY
Wider Site R7	16/11/22	15:10	WS229	S	GL	Dry	D	1.00	-	-	981	F	0.05	-	0.2	0.1	0.1	0.7	0.7	20.4	20.6	0	0	-	DRY
Wider Site R7	17/11/22	14:03	WS230	S	GL	Dry	D	1.10	-	-	1004	F	0.02	-	0.1	0.1	0.1	0.8	0.8	19.7	19.7	0	0	-	DRY
Wider Site R7	16/11/22	14:02	WS231	S	GL	4.29		5.18	-	-	982	F	0.02	-	0.3	0.1	0.1	3.7	3.5	17.8	17.8	0	0	-	OK
Wider Site R7	17/11/22	11:54	WS232	S	GL	1.12		3.00	-	-	1004	F	-0.05	-	0.2	0.1	0.1	0.6	0.6	20.2	20.2	0	0	-	OK
Wider Site R7	17/11/22	11:18	WS233	S	GL	0.99		2.35	-	-	1004	F	0.00	-	0.1	0.1	0.1	2.0	2.0	18.9	19.2	0	0	-	OK
Wider Site R7	17/11/22	11:26	WS234	S	GL	1.01		1.68	-	-	1004	F	0.05	-	0.3	0.1	0.1	0.3	0.3	20.6	20.6	0	0	-	OK
Wider Site R7	16/11/22	11:53	WS235	S	GL	0.98		5.06	-	-	984	F	-0.02	-	0.1	0.1	0.1	1.7	1.2	18.5	18.5	1	0	-	OK
Wider Site R7	16/11/22	11:46	WS236	S	GL	Dry	D	1.98	-	-	984	F	-0.02	-	0.2	0.1	0.1	1.9	1.9	18.1	18.1	0	0	-	DRY
Wider Site R7	16/11/22	15:05	WS237	S	GL	Dry	D	1.05	-	-	981	F	-0.04	-	0.3	0.1	0.1	0.5	0.5	20.3	20.3	0	0	-	DRY
Wider Site R7	16/11/22	14:12	WS238	S	GL	3.74		4.97	-	-	982	F	0.07	-	0.1	0.1	0.1	2.6	2.1	19.8	19.8	0	0	-	OK
Wider Site R7	17/11/22	11:07	WS239	S	GL	1.25		2.28	-	-	1004	F	0.02	-	0.3	0.1	0.1	0.7	0.7	19.8	19.9	0	0	-	OK
Wider Site R7	17/11/22	11:12	WS240	S	GL	Dry	D	1.10	-	-	1004	F	0.09	-	0.3	0.1	0.1	1.1	1.1	19.7	19.8	0	0	-	DRY
Wider Site R7	17/11/22	10:05	WS241	S	GL	1.24		1.98	-	-	1004	F	0.16	-	0.2	0.1	0.1	1.2	1.2	19.9	19.9	0	0	-	OK
Wider Site R7	16/11/22	12:01	WS242	S	GL	0.31		3.65	-	-	984	F	17.55	-	0.1	0.1	0.1	2.6	2.6	16.9	17.0	2	0	-	OK
Wider Site R7	16/11/22	14:35	WS243	S	GL	Dry	D	1.03	-	-	981	F	0.02	-	0.3	0.1	0.1	0.7	0.7	21.4	21.4	0	0	-	DRY
Wider Site R7	16/11/22	16:15	WS244	S	GL	Dry	D	0.93	-	-	981	F	0.00	-	0.3	0.1	0.1	0.7	0.7	19.3	19.5	0	0	-	DRY
Wider Site R7	16/11/22	15:39	WS245	S	GL	0.56		2.58	-	-	981	F	0.04	-	-4.5	0.1	0.1	0.8	0.8	20.9	20.9	1	0	-	OK
Wider Site R7	16/11/22	15:48	WS246	S	GL	0.98		4.49	-	-	981	F	0.14	-	-2.2	0.1	0.1	1.0	1.0	20.2	20.3	0	0	-	OK
Wider Site R7	16/11/22	16:06	WS247	S	GL	0.56		0.93	-	-	981	F	0.05	-	0.1	0.1									

Monitoring round			Well Details			Water/NAPL Monitoring (m below datum)					Pressure and flow (use < for below LoD)					Gas Concentrations (use < for below LoD)								Local conditions	
Round Reference	Date	Time	Well ID	Single or dual gas tap (S/D)	Datum Type (Casing / GL)	Depth to water	"D" denotes dry hole	Depth to Base of Hole	Depth to LNAPL	Depth to DNAPL	Atm. pressure (hPa)	Atm. pressure falling (F) / rising (R)/ steady (S)	Relative BH pressure (hPa)	Initial Gas Flow (L/hr)	Steady Gas Flow (L/hr)	CH <sub>4</sub> (%v/v) - (Initial)	CH <sub>4</sub> (%v/v) - (Steady)	CO <sub>2</sub> (%v/v) - (Initial)	CO <sub>2</sub> (%v/v) - (Steady)	O <sub>2</sub> (%v/v) - (Initial)	O <sub>2</sub> (%v/v) - (Steady)	CO (ppm)	H <sub>2</sub> S (ppm)	VOC (as ppm using PID)	Notes on condition of borehole (including any
Wider Site R8	21/12/22	10:26	BH201	S	GL	4.20		5.86	-	-	1003	F	0.12	-	0.1	0.1	0.1	0.9	0.9	20.3	20.3	0	0	-	OK
Wider Site R8	21/12/22	10:45	BH202	S	GL	3.30		5.15	-	-	1003	F	-0.05	-	0.2	0.1	0.1	0.8	0.8	19.9	20.1	0	0	-	OK
Wider Site R8	19/12/22	12:23	BH203	S	GL	2.82		5.00	-	-	997	F	-0.04	-	0.2	0.1	0.1	0.6	0.6	20.5	20.9	0	0	-	OK
Wider Site R8	19/12/22	13:00	BH204	S	GL	1.83		5.18	-	-	996	F	0.07	-	0.2	0.1	0.1	0.8	0.8	20.1	20.4	0	0	-	OK
Wider Site R8	19/12/22	12:32	BH205	S	GL	0.42		4.16	-	-	997	F	8.77	-	-2.0	0.1	0.1	2.3	2.3	17.1	17.4	18	0	-	OK
Wider Site R8	21/12/22	09:49	WS201	S	GL	Dry	D	1.90	-	-	1003	F	0.11	-	0.1	0.1	0.1	1.3	0.7	19.9	20.3	0	0	-	DRY
Wider Site R8	21/12/22	09:57	WS202	S	GL	1.10		2.00	-	-	1003	F	1.07	-	-4.5	0.1	0.1	1.2	1.2	19.7	19.7	1	0	-	OK
Wider Site R8	21/12/22	12:06	WS203	S	GL	Dry	D	2.00	-	-	1003	F	-0.04	-	0.1	0.1	0.1	0.7	0.7	20.0	20.2	0	0	-	DRY
Wider Site R8	21/12/22	11:58	WS204	S	GL	Dry	D	1.00	-	-	1003	F	-0.02	-	0.2	0.1	0.1	0.2	0.2	21.3	21.4	0	0	-	DRY
Wider Site R8	21/12/22	12:13	WS205	S	GL	0.55		3.00	-	-	1003	F	0.07	-	0.2	0.1	0.1	1.7	1.6	20.1	20.3	0	0	-	OK
Wider Site R8	21/12/22	11:51	WS206	S	GL	1.44		4.20	-	-	1003	F	-0.21	-	0.1	0.1	0.1	2.0	2.0	18.2	18.2	0	0	-	OK
Wider Site R8	21/12/22	11:42	WS207	S	GL	0.42		2.20	-	-	1003	F	-0.58	-	-2.3	0.1	0.1	1.5	1.5	20.5	20.5	2	0	-	OK
Wider Site R8	21/12/22	11:37	WS208	S	GL	0.24		2.15	-	-	1003	F	10.96	-	3.2	0.1	0.1	1.7	1.7	20.2	20.3	3	0	-	OK
Wider Site R8	21/12/22	12:19	WS209	S	GL	0.98		3.00	-	-	1003	F	0.09	-	0.0	0.1	0.1	2.0	2.0	18.6	18.8	0	0	-	OK
Wider Site R8	21/12/22	11:20	WS210	S	GL	0.33		2.60	-	-	1003	F	2.25	-	0.9	0.1	0.1	1.3	1.3	20.3	20.4	2	0	-	OK
Wider Site R8	21/12/22	09:38	WS211	S	GL	1.98		3.40	-	-	1003	F	0.04	-	0.1	0.1	0.1	3.5	3.3	17.3	17.4	0	0	-	OK
Wider Site R8	21/12/22	10:03	WS213	S	GL	Dry	D	3.66	-	-	1003	F	0.00	-	0.2	0.1	0.1	0.6	0.5	19.7	19.8	0	0	-	DRY
Wider Site R8	21/12/22	12:25	WS214	S	GL	Dry	D	1.00	-	-	1003	F	0.02	-	0.1	0.1	0.1	1.1	1.0	20.2	20.2	0	0	-	DRY
Wider Site R8	21/12/22	11:29	WS215	S	GL	0.33		2.50	-	-	1003	F	3.50	-	-1.4	0.1	0.1	0.6	0.6	20.7	20.7	1	0	-	OK
Wider Site R8	21/12/22	09:25	WS216	S	GL	3.80		4.20	-	-	1003	F	-0.10	-	0.2	0.1	0.1	1.5	1.5	19.7	19.8	0	0	-	OK
Wider Site R8	21/12/22	10:11	WS217	S	GL	Dry	D	2.05	-	-	1003	F	-0.11	-	0.3	0.1	0.1	1.5	1.4	19.8	19.9	0	0	-	DRY
Wider Site R8	21/12/22	12:31	WS218	S	GL	Dry	D	1.80	-	-	1003	F	-0.09	-	0.1	0.1	0.1	1.1	1.1	19.6	19.7	0	0	-	DRY
Wider Site R8	21/12/22	11:05	WS219	S	GL	3.31		5.00	-	-	1003	F	0.02	-	0.3	0.1	0.1	1.0	1.0	19.8	19.9	0	0	-	OK
Wider Site R8	21/12/22	11:11	WS220	S	GL	0.99		3.00	-	-	1003	F	0.02	-	0.2	0.1	0.1	0.8	0.8	19.2	19.2	0	0	-	OK
Wider Site R8	21/12/22	09:30	WS221	S	GL	Dry	D	2.05	-	-	1003	F	0.02	-	0.2	0.1	0.1	1.7	1.7	18.8	18.9	0	0	-	DRY
Wider Site R8	21/12/22	12:44	WS222	S	GL	Dry	D	2.50	-	-	1003	F	0.10	-	0.3	0.1	0.1	0.8	0.8	19.8	20.1	0	0	-	DRY
Wider Site R8	21/12/22	10:58	WS223	S	GL	Dry	D	2.00	-	-	1003	F	0.02	-	0.2	0.1	0.1	0.5	0.5	20.4	20.5	0	0	-	DRY
Wider Site R8	19/12/22	11:13	WS224	S	GL	0.64		1.40	-	-	1003	F	0.11	-	0.3	0.1	0.1	0.4	0.1	20.3	21.0	0	0	-	OK
Wider Site R8	21/12/22	09:35	WS225	S	GL	Dry	D	2.00	-	-	1003	F	0.07	-	0.1	0.1	0.1	1.2	1.2	19.3	19.3	0	0	-	DRY
Wider Site R8	21/12/22	10:21	WS226	S	GL	Dry	D	1.10	-	-	1003	F	0.02	-	0.3	0.1	0.1	0.5	0.5	20.5	20.5	0	0	-	DRY
Wider Site R8	21/12/22	12:49	WS227	S	GL	Dry	D	2.80	-	-	1003	F	0.20	-	0.2	0.1	0.1	0.8	0.8	20.2	20.2	0	0	-	DRY
Wider Site R8	19/12/22	12:17	WS228	S	GL	Dry	D	1.01	-	-	996	F	-0.16	-	0.2	0.1	0.1	0.8	0.8	20.1	20.2	0	0	-	DRY
Wider Site R8	19/12/22	12:12	WS229	S	GL	Dry	D	1.00	-	-	996	F	0.21	-	0.3	0.1	0.1	0.6	0.6	20.6	20.6	0	0	-	DRY
Wider Site R8	21/12/22	10:40	WS230	S	GL	Dry	D	1.10	-	-	1003	F	0.03	-	0.2	0.1	0.1	0.7	0.7	20.4	20.6	0	0	-	DRY
Wider Site R8	19/12/22	11:20	WS231	S	GL	3.49		5.18	-	-	997	F	-0.05	-	0.3	0.1	0.1	3.6	3.6	17.1	17.1	0	0	-	OK
Wider Site R8	21/12/22	10:51	WS232	S	GL	0.87		3.00	-	-	1003	F	-0.20	-	-2.9	0.1	0.1	0.7	0.7	19.5	19.7	0	0	-	OK
Wider Site R8	19/12/22	11:02	WS233	S	GL	0.33		2.35	-	-	1003	F	-0.10	-	0.2	0.1	0.1	1.8	1.8	19.1	19.2	0	0	-	OK
Wider Site R8	19/12/22	11:13	WS234	S	GL	0.59		1.68	-	-	1003	F	0.04	-	0.2	0.1	0.1	0.2	0.3	20.5	20.6	0	0	-	OK
Wider Site R8	19/12/22	14:37	WS235	S	GL	0.94		5.06	-	-	1003	F	0.01	-	0.3	0.1	0.1	1.6	1.7	17.5	17.6	0	0	-	OK
Wider Site R8	19/12/22	14:29	WS236	S	GL	Dry	D	1.98	-	-	1003	F	0.02	-	0.3	0.1	0.1	1.9	1.9	19.2	19.2	0	0	-	DRY
Wider Site R8	19/12/22	12:01	WS237	S	GL	Dry	D	1.05	-	-	996	F	0.16	-	0.3	0.1	0.1	0.5	0.5	20.6	20.8	0	0	-	DRY
Wider Site R8	19/12/22	11:29	WS238	S	GL	1.96		4.97	-	-	996	F	0.00	-	0.2	0.1	0.1	1.8	1.6	19.1	19.6	1	0	-	OK
Wider Site R8	19/12/22	10:49	WS239	S	GL	0.98		2.28	-	-	1003	F	-0.02	-	0.3	0.1	0.1	0.8	0.8	19.5	19.6	0	0	-	OK
Wider Site R8	19/12/22	10:55	WS240	S	GL	Dry	D	1.10	-	-	1003	F	0.12	-	0.3	0.1	0.1	1.2	1.2	19.4	19.4	0	0	-	OK
Wider Site R8	19/12/22	09:50	WS241	S	GL	0.88		1.98	-	-	1003	F	0.03	-	-1.6	0.1	0.1	1.5	1.5	19.2	19.3	0	0	-	OK
Wider Site R8	19/12/22	14:55	WS242	S	GL	0.28		3.65	-	-	1003	F	8.85	-	-1.2	0.1	0.1	2.3	2.4	18.5	18.5	1	0	-	OK
Wider Site R8	19/12/22	11:42	WS243	S	GL	Dry	D	1.03	-	-	996	F	0.12	-	0.2	0.1	0.1	0.7	0.7	20.5	20.6	0	0	-	DRY
Wider Site R8	19/12/22	13:11	WS244	S	GL	0.65		0.93	-	-	996	F	0.11	-	0.2	0.1	0.1	0.6	0.6	18.8	20.7	0	0	-	OK
Wider Site R8	19/12/22	12:46	WS245	S	GL	0.45		2.58	-	-	997	F	9.90	-	0.3	0.1	0.1	2.0	2.0	16.3	16.4	2	0	-	OK
Wider Site R8	19/12/22	12:53	WS246	S	GL	0.84		4.49	-	-	996	F	1.81	-	0.1	0.1	0.1	2.8	2.7	17.1	17.2	2	0	-	OK
Wider Site R8	19/12/22	13:05	WS247	S	GL	0.30		0.93	-	-	997	F	41.77	-	6.3	0.1	0.1	1.2	1.2	13.4	13.4	2	0	-	OK
Wider Site R8	19/12/22	10:37	WS248	S	GL	1.28		1.65	-	-	1003	F	0.14	-	0.3	0.1	0.1	0.9	0.9	19.8	19.8	0	0	-	OK
Wider Site R8	19/12/22	10:19	WS249	S	GL	Dry	D	1.00	-	-	1003	F	0.06	-	0.3	0.1	0.1	1.2	1.3	18.9	19.0	0	0	-	DRY
Wider Site R8	19/12/22	10:29	WS250	S	GL	0.68		0.89	-	-	1003	F	1.02	-	0.2	0.1	0.1	1.0	1.0	19.9	20.1	0	0	-	OK
Wider Site R8	19/12/22	09:59	WS251	S	GL	0.32		2.00	-	-	1003	F	-0.02	-	0.1	0.1	0.1	1.1	1.2	20.1	19.8	1	0	-	OK
Wider Site R8	19/12/22	10:05	WS252	S	GL	0.25		5.18	-	-	1003	F	1.03	-	-3.2	0.1	0.2	1.1	1.2	18.8	17.9	0	0	-	OK
Wider Site R9	10/01/23	12:58	BH201	S	GL	3.61		5.86	-	-	997	R	0.09	-	0.2	0.1	0.1	0.8	0.8	20.2	20.2	0	0	-	OK
Wider Site R9	10/01/23	13:12	BH202	S	GL	0.95		5.15	-	-	997	R	0.25	-	-4.1	0.1	0.1	0.7	0.6	20.4	20.6	0	0	-	OK
Wider Site R9	11/01/23	11:55	BH203	S	GL	2.75		5.00	-	-	1003	R	-0.04	-	0.2	0.1	0.1	0.6	0.6	20.5	20.9	0	0	-	OK
Wider Site R9	11/01/23	12:26	BH204	S	GL	1.74		5.18	-	-	1003	R	0.07	-	0										

Monitoring round			Well Details			Water/NAPL Monitoring (m below datum)					Pressure and flow (use < for below LoD)					Gas Concentrations (use < for below LoD)								Local conditions	
Round Reference	Date	Time	Well ID	Single or dual gas tap (S/D)	Datum Type (Casing / GL)	Depth to water	"D" denotes dry hole	Depth to Base of Hole	Depth to LNAPL	Depth to DNAPL	Atm. pressure (hPa)	Atm. pressure falling (F) / rising (R) / steady (S)	Relative BH pressure (hPa)	Initial Gas Flow (L/hr)	Steady Gas Flow (L/hr)	CH <sub>4</sub> (%v/v) - (Initial)	CH <sub>4</sub> (%v/v) - (Steady)	CO <sub>2</sub> (%v/v) - (Initial)	CO <sub>2</sub> (%v/v) - (Steady)	O <sub>2</sub> (%v/v) - (Initial)	O <sub>2</sub> (%v/v) - (Steady)	CO (ppm)	H <sub>2</sub> S (ppm)	VOC (as ppm using PID)	Notes on condition of borehole (including any)
Wider Site R9	10/01/23	14:40	WS205	S	GL	0.30		3.00	-	-	996	R	-0.11	-	0.2	0.1	0.1	1.5	1.5	20.4	20.4	0	0	-	OK
Wider Site R9	10/01/23	14:19	WS206	S	GL	1.22		4.20	-	-	996	R	-0.04	-	0.2	0.1	0.1	1.9	1.9	19.5	19.5	0	0	-	OK
Wider Site R9	10/01/23	14:10	WS207	S	GL	0.30		2.20	-	-	996	R	-0.44	-	-6.1	0.1	0.1	2.7	2.7	17.9	19.7	1	0	-	OK
Wider Site R9	10/01/23	14:05	WS208	S	GL	0.18		2.15	-	-	996	R	25.38	-	4.7	0.1	0.1	4.0	4.0	11.6	11.6	4	0	-	OK
Wider Site R9	10/01/23	14:46	WS209	S	GL	0.82		3.00	-	-	996	R	-0.30	-	-1.5	0.1	0.1	1.2	1.2	19.7	19.9	1	0	-	OK
Wider Site R9	10/01/23	13:43	WS210	S	GL	0.24		2.60	-	-	997	R	23.39	-	4.1	0.1	0.1	2.0	2.0	14.6	14.7	0	0	-	OK
Wider Site R9	10/01/23	12:14	WS211	S	GL	1.54		3.40	-	-	997	R	4.93	-	0.2	0.1	0.1	2.8	2.8	16.6	16.6	0	0	-	OK
Wider Site R9	10/01/23	12:38	WS213	S	GL	Dry	D	3.66	-	-	997	R	0.28	-	0.2	0.1	0.1	0.5	0.5	20.6	20.6	0	0	-	DRY
Wider Site R9	10/01/23	14:52	WS214	S	GL	Dry	D	1.02	-	-	995	R	0.04	-	0.2	0.1	0.1	0.9	0.9	19.8	19.8	0	0	-	DRY
Wider Site R9	10/01/23	13:58	WS215	S	GL	0.27		2.50	-	-	996	R	12.26	-	0.2	0.1	0.1	1.9	1.9	12.6	12.6	4	0	-	OK
Wider Site R9	10/01/23	11:54	WS216	S	GL	3.23		4.20	-	-	997	R	0.00	-	0.2	0.1	0.1	1.2	1.2	19.5	19.6	0	0	-	OK
Wider Site R9	10/01/23	12:46	WS217	S	GL	Dry	D	2.09	-	-	997	R	-0.04	-	0.2	0.1	0.1	1.7	1.7	19.9	19.9	0	0	-	DRY
Wider Site R9	10/01/23	14:56	WS218	S	GL	Dry	D	1.82	-	-	995	R	0.00	-	0.2	0.1	0.1	1.0	1.0	19.7	19.7	0	0	-	DRY
Wider Site R9	10/01/23	13:30	WS219	S	GL	3.28		5.00	-	-	996	R	0.05	-	0.2	0.1	0.1	1.7	1.7	19.3	19.6	0	0	-	OK
Wider Site R9	10/01/23	13:35	WS220	S	GL	0.84		3.00	-	-	997	R	-0.95	-	-4.5	0.1	0.1	1.0	1.0	18.2	18.2	2	0	-	OK
Wider Site R9	10/01/23	11:59	WS221	S	GL	Dry	D	1.99	-	-	997	R	-0.04	-	0.2	0.1	0.1	1.7	1.7	18.8	18.9	0	0	-	DRY
Wider Site R9	10/01/23	15:09	WS222	S	GL	Dry	D	2.49	-	-	995	R	0.19	-	0.2	0.1	0.1	0.7	0.7	20.5	20.5	0	0	-	DRY
Wider Site R9	10/01/23	13:26	WS223	S	GL	1.73		2.00	-	-	996	R	-0.04	-	0.2	0.1	0.1	0.5	0.5	20.3	20.4	0	0	-	OK
Wider Site R9	11/01/23	10:17	WS224	S	GL	0.44		1.40	-	-	1003	R	0.07	-	0.2	0.1	0.1	0.3	0.3	21.2	21.4	0	0	-	OK
Wider Site R9	10/01/23	12:04	WS225	S	GL	Dry	D	2.00	-	-	997	R	-0.05	-	0.2	0.1	0.1	1.0	1.0	19.5	19.5	0	0	-	DRY
Wider Site R9	10/01/23	12:53	WS226	S	GL	Dry	D	1.18	-	-	997	R	0.09	-	0.2	0.1	0.1	0.7	0.7	20.2	20.4	0	0	-	DRY
Wider Site R9	10/01/23	15:14	WS227	S	GL	Dry	D	2.78	-	-	995	R	0.14	-	0.2	0.1	0.1	0.8	0.8	20.3	20.4	0	0	-	DRY
Wider Site R9	11/01/23	11:47	WS228	S	GL	Dry	D	1.01	-	-	1003	R	0.02	-	0.2	0.1	0.1	0.9	0.9	19.6	19.7	0	0	-	DRY
Wider Site R9	11/01/23	11:38	WS229	S	GL	Dry	D	1.00	-	-	1003	R	0.05	-	0.2	0.1	0.1	0.7	0.7	20.4	20.6	0	0	-	DRY
Wider Site R9	10/01/23	13:08	WS230	S	GL	Dry	D	1.15	-	-	997	R	-0.19	-	0.2	0.1	0.1	0.7	0.7	20.0	20.1	0	0	-	DRY
Wider Site R9	11/01/23	10:31	WS231	S	GL	3.28		5.18	-	-	1003	R	0.02	-	0.3	0.1	0.1	3.7	3.5	17.8	17.8	0	0	-	OK
Wider Site R9	10/01/23	13:18	WS232	S	GL	0.13		3.00	-	-	997	R	-0.23	-	-4.1	0.1	0.1	0.6	0.6	20.6	20.8	0	0	-	OK
Wider Site R9	11/01/23	10:08	WS233	S	GL	0.12		2.35	-	-	1003	R	-0.53	-	-2.8	0.1	0.1	1.5	1.5	17.6	17.7	0	0	-	OK
Wider Site R9	11/01/23	10:24	WS234	S	GL	0.21		1.68	-	-	1003	R	4.12	-	-3.2	0.1	0.1	0.9	0.9	15.8	15.8	2	0	-	OK
Wider Site R9	11/01/23	14:16	WS235	S	GL	0.91		5.06	-	-	1003	R	0.02	-	0.2	0.1	0.1	1.7	1.6	17.5	17.5	0	0	-	OK
Wider Site R9	11/01/23	14:09	WS236	S	GL	Dry	D	1.98	-	-	1003	R	0.02	-	0.3	0.1	0.1	1.9	1.9	19.2	19.2	0	0	-	DRY
Wider Site R9	11/01/23	11:28	WS237	S	GL	Dry	D	1.05	-	-	1003	R	0.16	-	0.3	0.1	0.1	0.5	0.5	20.6	20.8	0	0	-	DRY
Wider Site R9	11/01/23	10:41	WS238	S	GL	1.88		4.97	-	-	1003	R	0.07	-	0.2	0.1	0.1	2.6	2.1	19.8	19.8	0	0	-	OK
Wider Site R9	11/01/23	09:55	WS239	S	GL	0.13		2.28	-	-	1003	R	-1.48	-	-3.1	0.1	0.1	1.0	1.0	16.6	16.8	2	0	-	OK
Wider Site R9	11/01/23	10:01	WS240	S	GL	0.14		1.14	-	-	1003	R	24.04	-	1.8	0.1	0.1	2.0	2.0	17.4	17.4	2	0	-	OK
Wider Site R9	11/01/23	08:51	WS241	S	GL	0.55		1.98	-	-	1002	R	0.02	-	-1.7	0.1	0.1	0.7	0.7	19.8	19.8	0	0	-	OK
Wider Site R9	11/01/23	14:24	WS242	S	GL	0.22		3.65	-	-	1003	R	7.94	-	-3.3	0.1	0.1	2.4	2.4	18.6	18.8	1	0	-	OK
Wider Site R9	11/01/23	11:04	WS243	S	GL	Dry	D	1.03	-	-	1003	R	0.02	-	0.3	0.1	0.1	0.7	0.7	21.4	21.4	0	0	-	DRY
Wider Site R9	11/01/23	12:31	WS244	S	GL	0.66		0.93	-	-	1003	R	0.11	-	0.2	0.1	0.1	0.7	0.7	19.3	19.5	0	0	-	DRY
Wider Site R9	11/01/23	12:07	WS245	S	GL	0.28		2.58	-	-	1003	R	0.04	-	-4.5	0.1	0.1	0.8	0.8	20.9	20.9	1	0	-	OK
Wider Site R9	11/01/23	12:16	WS246	S	GL	0.75		4.49	-	-	1003	R	0.14	-	-2.2	0.1	0.1	1.0	1.0	20.2	20.3	0	0	-	OK
Wider Site R9	11/01/23	12:34	WS247	S	GL	0.25		0.93	-	-	1003	R	0.05	-	0.1	0.1	0.1	1.2	1.2	18.5	18.8	0	0	-	OK
Wider Site R9	11/01/23	09:43	WS248	S	GL	0.36		1.65	-	-	1003	R	2.68	-	-5.6	0.1	0.1	1.0	1.0	15.7	15.8	3	0	-	OK
Wider Site R9	11/01/23	09:26	WS249	S	GL	0.65		1.00	-	-	1003	R	-0.02	-	-1.6	0.1	0.1	1.8	1.8	19.5	19.6	1	0	-	OK
Wider Site R9	11/01/23	09:35	WS250	S	GL	0.22		0.89	-	-	1003	R	0.55	-	-4.0	0.1	0.1	1.0	1.0	20.7	20.8	1	0	-	OK
Wider Site R9	11/01/23	09:02	WS251	S	GL	0.25		2.00	-	-	1003	R	-0.16	-	-0.4	0.1	0.1	1.3	1.1	19.4	19.5	0	0	-	WATER LOGGED FIELD
Wider Site R9	11/01/23	09:14	WS252	S	GL	0.19		5.18	-	-	1003	R	-0.39	-	-4.4	0.1	0.1	1.3	1.3	16.9	17.0	0	0	-	OK
Wider Site R10	09/02/23	14:29	BH201	S	GL	3.35		4.87	-	-	1027	R	-0.05	-	0.1	0.1	0.1	0.7	0.7	21.1	21.4	0	0	-	OK
Wider Site R10	10/02/23	14:55	BH203	S	GL	2.82		4.84	-	-	1030	R	0.05	-	0.1	0.1	0.1	0.6	0.6	20.3	20.3	0	0	-	OK
Wider Site R10	10/02/23	15:49	BH204	S	GL	1.82		5.01	-	-	1030	R	-0.05	-	0.1	0.1	0.1	0.8	0.8	20.1	20.3	0	0	-	SILT
Wider Site R10	10/02/23	15:11	BH205	S	GL	0.60		4.16	-	-	1030	R	-6.63	-	-0.1	0.1	0.1	1.9	1.9	15.4	15.4	2	0	-	OK
Wider Site R10	09/02/23	13:47	WS201	S	GL	1.64		1.95	-	-	1027	R	-0.58	-	0.1	0.1	0.1	0.7	0.5	14.2	15.7	0	0	-	OK
Wider Site R10	09/02/23	13:56	WS202	S	GL	0.57		2.03	-	-	1027	R	-1.13	-	-0.1	0.1	0.1	0.5	0.5	20.2	20.4	2	0	-	OK
Wider Site R10	09/02/23	15:49	WS203	S	GL	2.03	D	2.03	-	-	1027	R	-0.11	-	0.1	0.1	0.1	0.6	0.6	20.8	21.4	0	0	-	DRY
Wider Site R10	09/02/23	15:58	WS204	S	GL	1.35	D	1.35	-	-	1028	R	0.05	-	0.1	0.1	0.1	0.6	0.6	20.5	20.5	0	0	-	DRY
Wider Site R10	09/02/23	15:35	WS205	S	GL	0.57		2.99	-	-	1028	R	-0.86	-	-0.1	0.1	0.1	2.6	2.5	17.9	18.1	1	0	-	OK
Wider Site R10	09/02/23	15:24	WS206	S	GL	1.54		4.19	-	-	1028	R	-0.11	-	0.1	0.1	0.1	1.6	1.6	20.7	20.8	0	0	-	SILT
Wider Site R10	09/02/23	16:09	WS207	S	GL	0.58		2.16	-	-	1029	R	0.04	-	0.1	0.1	0.1	2.2	2.2	19.3	19.3	15	0	-	SILT
Wider Site R10	09/02/23	16:29	WS208	S	GL	0.40		2.20	-	-	1029	R	-22.80	-	-0.4	0.1	0.1	3.2	3.2	12.5	12.5	4	0	-	WATER SILT 3rd run on gas, 2.30min water up pipe. Pi
Wider Site R10	09/02/23	15:15	WS209	S	GL	1.00		3.																	



Monitoring round			Well Details			Water/NAPL Monitoring (m below datum)					Pressure and flow (use < for below LoD)					Gas Concentrations (use < for below LoD)								Local conditions	
Round Reference	Date	Time	Well ID	Single or dual gas tap (S/D)	Datum Type (Casing / GL)	Depth to water	"D" denotes dry hole	Depth to Base of Hole	Depth to LNAPL	Depth to DNAPL	Atm. pressure (hPa)	Atm. pressure falling (F) / rising (R)/ steady (S)	Relative BH pressure (hPa)	Initial Gas Flow (L/hr)	Steady Gas Flow (L/hr)	CH <sub>4</sub> (%v/v) - (Initial)	CH <sub>4</sub> (%v/v) - (Steady)	CO <sub>2</sub> (%v/v) - (Initial)	CO <sub>2</sub> (%v/v) - (Steady)	O <sub>2</sub> (%v/v) - (Initial)	O <sub>2</sub> (%v/v) - (Steady)	CO (ppm)	H <sub>2</sub> S (ppm)	VOC (as ppm using PID)	Notes on condition of borehole (including any)
Wider Site R10	09/02/23	13:03	WS216	S	GL	2.97		4.07	-	-	1026	R	0.35	-	0.1	0.1	0.1	1.0	1.0	19.1	19.1	0	1	-	OK
Wider Site R10	09/02/23	14:14	WS217	S	GL	2.08	D	2.08	-	-	1027	R	0.04	-	0.1	0.1	0.1	1.4	1.4	20.6	20.7	0	0	-	DRY
Wider Site R10	09/02/23	14:49	WS218	S	GL	1.81	D	1.81	-	-	1027	R	0.07	-	0.1	0.1	0.1	0.8	0.8	20.9	20.9	0	0	-	DRY
Wider Site R10	09/02/23	13:14	WS221	S	GL	2.04	D	2.04	-	-	1027	R	0.02	-	0.1	0.1	0.1	1.2	1.2	19.7	20.0	0	0	-	DRY
Wider Site R10	09/02/23	14:42	WS222	S	GL	2.49	D	2.49	-	-	1027	R	0.07	-	0.1	0.1	0.1	0.8	0.8	20.8	20.8	0	0	-	DRY
Wider Site R10	10/02/23	13:47	WS224	S	GL	0.56		1.39	-	-	1030	R	-0.02	-	0.1	0.1	0.1	0.4	0.3	20.6	21.2	0	0	-	OK
Wider Site R10	09/02/23	13:20	WS225	S	GL	2.04	D	2.04	-	-	1026	R	-0.02	-	0.1	0.1	0.1	0.8	0.8	20.4	20.5	0	0	-	DRY
Wider Site R10	09/02/23	14:22	WS226	S	GL	1.18	D	1.18	-	-	1027	R	0.11	-	0.1	0.1	0.1	0.6	0.6	21.2	21.3	0	0	-	DRY
Wider Site R10	09/02/23	14:36	WS227	S	GL	2.77	D	2.77	-	-	1027	R	0.07	-	0.1	0.1	0.1	0.7	0.7	21.2	21.4	0	0	-	DRY
Wider Site R10	10/02/23	14:47	WS228	S	GL	1.03	D	1.03	-	-	1029	R	0.05	-	0.1	0.1	0.1	0.8	0.8	20.1	20.3	0	0	-	DRY
Wider Site R10	10/02/23	14:42	WS229	S	GL	2.00	D	2.00	-	-	1029	R	0.02	-	0.1	0.1	0.1	0.5	0.5	20.9	20.9	0	0	-	DRY
Wider Site R10	10/02/23	14:08	WS231	S	GL	2.80		4.96	-	-	1030	R	0.14	-	0.1	0.1	0.1	3.3	3.3	18.5	18.5	0	0	-	OK
Wider Site R10	10/02/23	14:35	WS232	S	GL	1.06	D	1.06	-	-	1029	R	-0.11	-	0.1	0.1	0.1	0.5	0.5	21.2	21.5	0	0	-	DRY
Wider Site R10	10/02/23	13:21	WS233	S	GL	0.40		2.27	-	-	1031	R	-0.04	-	0.1	0.1	0.1	1.0	0.7	20.5	20.8	0	0	-	SILT
Wider Site R10	10/02/23	13:39	WS234	S	GL	0.33		1.67	-	-	1031	R	-13.79	-	-0.2	0.1	0.1	0.5	0.5	17.2	17.2	1	0	-	OK
Wider Site R10	10/02/23	14:15	WS238	S	GL	1.86		4.98	-	-	1030	R	0.04	-	0.1	0.1	0.1	1.5	1.5	19.8	19.8	1	0	-	OK
Wider Site R10	10/02/23	12:58	WS239	S	GL	0.47		2.28	-	-	1030	R	-2.54	-	-0.3	0.1	0.1	1.2	1.1	18.9	19.0	1	0	-	OK
Wider Site R10	10/02/23	13:14	WS240	S	GL	0.69		1.50	-	-	1030	R	-23.61	-	-0.6	0.1	0.1	0.7	0.7	19.1	19.1	1	0	-	OK
Wider Site R10	10/02/23	11:06	WS241	S	GL	0.78		2.00	-	-	1031	R	-0.04	-	0.1	0.1	0.1	0.6	0.5	20.1	20.6	0	0	-	OK
Wider Site R10	10/02/23	14:24	WS243	S	GL	1.03	D	1.03	-	-	1029	R	0.02	-	0.1	0.1	0.1	0.7	0.6	20.8	21.1	0	0	-	DRY
Wider Site R10	10/02/23	16:20	WS244	S	GL	0.64		0.95	-	-	1030	R	-14.83	-	-0.3	0.1	0.1	0.4	0.4	20.1	20.2	2	0	-	OK
Wider Site R10	10/02/23	15:27	WS245	S	GL	0.59		2.56	-	-	1030	R	-20.03	-	-0.2	0.1	0.1	0.8	0.8	18.6	18.7	1	0	-	SILT
Wider Site R10	10/02/23	15:42	WS246	S	GL	0.93		4.48	-	-	1030	R	0.93	-	-0.2	0.1	0.1	2.4	2.1	17.6	18.2	2	0	-	OK
Wider Site R10	10/02/23	16:04	WS247	S	GL	0.03		0.96	-	-	1030	R	11.00	-	0.3	0.1	0.1	0.9	0.9	12.0	12.0	4	0	-	OK
Wider Site R10	10/02/23	12:14	WS248	S	GL	0.58		1.65	-	-	1031	R	-18.21	-	-0.2	0.1	0.1	0.5	0.5	19.5	19.5	1	0	-	OK
Wider Site R10	10/02/23	11:49	WS249	S	GL	1.01	D	1.01	-	-	1031	R	0.09	-	0.1	0.1	0.1	1.7	1.7	19.1	19.2	0	0	-	DRY
Wider Site R10	10/02/23	11:57	WS250	S	GL	0.57		0.90	-	-	1031	R	0.11	-	0.1	0.1	0.1	1.0	1.0	20.7	20.9	0	0	-	OK
Wider Site R10	10/02/23	11:21	WS251	S	GL	0.43		2.00	-	-	1031	R	-4.21	-	-0.1	0.1	0.1	1.0	0.8	19.1	19.3	7	0	-	OK
Wider Site R10	10/02/23	11:38	WS252	S	GL	0.43		5.03	-	-	1031	R	-9.78	-	-0.2	0.1	0.1	1.1	1.1	18.2	18.3	0	0	-	OK
Wider Site R11	09/03/23	14:21	BH201	S	GL	3.46		4.86	-	-	985	F	-0.04	-	0.1	0.1	0.1	0.8	0.8	21.0	20.9	0	0	-	OK
Wider Site R11	13/03/23	12:19	BH202	S	GL	1.30		5.16	-	-	984	F	0.19	-	0.1	0.1	0.1	0.5	0.5	20.6	20.6	0	0	-	OK
Wider Site R11	09/03/23	12:51	CP301	S	GL	2.36		4.74	-	-	986	F	0.37	-	0.1	0.1	0.1	1.6	1.6	19.5	19.5	0	0	-	SILT
Wider Site R11	09/03/23	12:41	CP302	S	GL	1.96		4.10	-	-	986	F	-0.04	-	0.1	0.1	0.1	1.0	1.0	20.3	20.2	0	0	-	OK
Wider Site R11	09/03/23	14:57	CP303	S	GL	3.29		4.05	-	-	984	F	0.05	-	0.1	0.1	0.1	0.6	0.6	21.0	21.0	0	0	-	OK
Wider Site R11	09/03/23	14:41	CP304	S	GL	3.03		4.05	-	-	985	F	0.05	-	0.1	0.1	0.1	0.7	0.7	21.1	20.8	0	0	-	OK
Wider Site R11	09/03/23	14:08	CP305	S	GL	3.08		4.72	-	-	985	F	0.04	-	0.1	0.1	0.1	1.2	1.2	20.5	20.4	0	0	-	OK
Wider Site R11	13/03/23	12:12	RO301	S	GL	0.34		7.72	-	-	984	F	0.44	-	0.1	0.1	0.1	0.3	0.4	20.2	20.1	1	0	-	OK
Wider Site R11	13/03/23	12:07	RO302	S	GL	0.15		3.16	-	-	984	F	-0.14	-	-0.1	0.1	0.1	0.1	0.1	21.1	20.9	0	0	-	OK
Wider Site R11	14/03/23	14:54	RO303	S	GL	0.18		3.54	-	-	1004	R	-0.18	-	0.1	0.1	0.1	0.1	0.1	20.9	20.8	0	0	-	OK
Wider Site R11	14/03/23	14:49	RO304	S	GL	0.32		8.04	-	-	1004	R	0.02	-	0.1	0.1	0.1	0.3	0.3	20.2	20.2	1	0	-	SILT
Wider Site R11	14/03/23	13:37	RO305	S	GL	0.13		2.38	-	-	1004	R	38.20	-	1.5	0.1	0.1	1.3	1.3	17.2	17.2	3	0	-	OK
Wider Site R11	09/03/23	13:30	RO306	S	GL	0.76		5.55	-	-	986	F	11.37	-	0.1	0.1	0.1	1.1	1.1	19.5	19.4	3	0	-	OK
Wider Site R11	09/03/23	13:36	RO307	S	GL	1.38		5.13	-	-	985	F	0.26	-	0.1	0.1	0.1	0.5	0.6	21.2	21.1	0	0	-	OK
Wider Site R11	09/03/23	13:42	RO307A	S	GL	1.39		2.16	-	-	985	F	0.02	-	0.1	0.1	0.1	0.4	0.4	21.4	21.0	1	0	-	OK
Wider Site R11	10/03/23	12:01	RO309	S	GL	5.05		5.60	-	-	998	R	0.12	-	0.1	0.1	0.1	1.0	1.0	20.2	20.2	0	0	-	OK
Wider Site R11	10/03/23	12:07	RO309A	S	GL	4.13	D*	4.23	-	-		R	-0.02	-	0.1	0.1	0.1	0.9	0.9	20.4	20.2	0	0	-	OK
Wider Site R11	10/03/23	11:50	RO310	S	GL	4.10		6.08	-	-	998	R	0.00	-	0.1	0.1	0.1	1.5	1.5	19.9	19.8	0	0	-	OK
Wider Site R11	10/03/23	11:34	RO311	S	GL	1.09		5.09	-	-	997	R	0.12	-	0.1	0.1	0.1	0.3	0.5	21.4	21.3	0	0	-	OK
Wider Site R11	10/03/23	11:21	RO312	S	GL	3.66		9.44	-	-	997	R	0.69	-	0.1	0.1	0.1	0.4	0.4	20.6	20.6	2	0	-	OK
Wider Site R11	10/03/23	11:28	RO312A	S	GL	2.12	D	2.12	-	-	997	R	0.11	-	0.1	0.1	0.1	0.3	0.4	21.3	21.0	0	0	-	DRY
Wider Site R11	10/03/23	12:15	RO313	S	GL	3.18		4.47	-	-	999	R	0.86	-	0.1	0.1	0.1	2.9	2.9	17.2	17.2	0	0	-	OK
Wider Site R11	10/03/23	12:20	RO313A	S	GL	0.79	D	0.79	-	-	999	R	0.09	-	0.1	0.1	0.1	0.8	0.9	19.6	19.3	0	0	-	DRY
Wider Site R11	10/03/23	12:49	RO314	S	GL	0.75		4.66	-	-	1000	R	15.71	-	0.3	0.1	0.1	1.6	1.6	18.2	18.2	9	0	-	OK
Wider Site R11	09/03/23	15:26	RO315	S	GL	0.19		5.03	-	-	985	F	79.12	-	1.5	0.1	0.1	1.6	1.6	4.0	4.0	1	0	-	FLOODED AROUND STANDPIPE
Wider Site R11	09/03/23	15:04	RO316	S	GL	2.29		5.47	-	-	985	F	0.32	-	0.1	0.1	0.1	0.7	0.7	19.6	19.6	2	0	-	OK
Wider Site R11	09/03/23	15:08	RO316A	S	GL	1.16		1.31	-	-	985	F	0.11	-	0.1	0.1	0.1	0.2	0.2	21.2	21.1	0	0	-	OK
Wider Site R11	10/03/23	12:59	RO317	S	GL	0.23		7.45	-	-	1000	R	0.30	-	0.1	0.1	0.1	0.5	0.6	20.2	20.2	1	0	-	OK
Wider Site R11	10/03/23	13:34	RO318	S	GL	0.50		5.84	-	-	1000	R	7.26	-	0.3	0.1	0.1	1.9	1.9	15.5	15.5	3	0	-	FLOODED AROUND STANDPIPE
Wider Site R11	10/03/23	13:38	RO318A	S	GL	0.42		4.17	-	-	1000	R	0.97	-	0.1	0.1	0.1	1.7	1.7	18.7	18.6	1	0	-	OK

Monitoring round			Well Details			Water/NAPL Monitoring (m below datum)					Pressure and flow (use < for below LoD)					Gas Concentrations (use < for below LoD)								Local conditions	
Round Reference	Date	Time	Well ID	Single or dual gas tap (S/D)	Datum Type (Casing / GL)	Depth to water	"D" denotes dry hole	Depth to Base of Hole	Depth to LNAPL	Depth to DNAPL	Atm. pressure (hPa)	Atm. pressure falling (F) / rising (R) / steady (S)	Relative BH pressure (hPa)	Initial Gas Flow (L/hr)	Steady Gas Flow (L/hr)	CH <sub>4</sub> (%v/v) - (Initial)	CH <sub>4</sub> (%v/v) - (Steady)	CO <sub>2</sub> (%v/v) - (Initial)	CO <sub>2</sub> (%v/v) - (Steady)	O <sub>2</sub> (%v/v) - (Initial)	O <sub>2</sub> (%v/v) - (Steady)	CO (ppm)	H <sub>2</sub> S (ppm)	VOC (as ppm using PID)	Notes on condition of borehole (including any)
Wider Site R11	10/03/23	11:56	WS203	S	GL	2.69	D	2.69	-	-	998	R	-0.05	-	0.1	0.1	0.1	0.7	0.7	20.8	20.8	0	0	-	DRY
Wider Site R11	10/03/23	12:26	WS204	S	GL	2.91	D	3.11	-	-	1000	R	-0.04	-	0.1	0.1	0.1	1.0	1.0	18.4	18.4	0	0	-	DRY
Wider Site R11	10/03/23	11:44	WS205	S	GL	2.46		3.14	-	-	997	R	4.83	-	0.3	0.1	0.1	2.9	2.9	16.0	16.0	0	1	-	OK
Wider Site R11	10/03/23	12:34	WS206	S	GL	1.52		2.04	-	-	1000	R	0.05	-	0.1	0.1	0.1	1.9	1.9	19.2	19.3	0	0	-	SILT
Wider Site R11	10/03/23	13:05	WS207	S	GL	2.26		2.50	-	-	1000	R	0.62	-	0.1	0.1	0.1	2.4	2.4	18.8	19.0	0	5	-	OK
Wider Site R11	10/03/23	13:21	WS208	S	GL	3.45		3.84	-	-	1000	R	21.12	-	0.3	0.1	0.1	3.7	3.7	17.1	17.1	1	3	-	SILT
Wider Site R11	10/03/23	11:14	WS209	S	GL	2.89		3.00	-	-	997	R	1.23	-	0.2	0.1	0.1	1.6	1.6	19.4	19.4	0	0	-	OK
Wider Site R11	10/03/23	14:48	WS210	S	GL	2.83		3.09	-	-	1002	R	23.40	-	0.5	0.1	0.1	1.8	1.8	16.0	16.2	0	0	-	SILT
Wider Site R11	09/03/23	12:59	WS211	S	GL	0.98		1.95	-	-	985	F	4.23	-	0.2	0.1	0.1	2.5	2.5	17.4	17.4	1	0	-	OK
Wider Site R11	09/03/23	13:53	WS213	S	GL	0.41	D	2.03	-	-	985	F	0.00	-	0.1	0.1	0.1	0.6	0.6	21.0	21.0	3	0	-	DRY
Wider Site R11	09/03/23	14:52	WS214	S	GL	2.03	D	2.03	-	-	984	F	0.02	-	0.1	0.1	0.1	1.1	1.1	20.5	20.8	3	0	-	DRY
Wider Site R11	10/03/23	13:59	WS215	S	GL	1.05		1.05	-	-	1001	R	17.24	-	0.3	0.1	0.1	1.6	1.6	15.4	15.4	0	3	-	OK
Wider Site R11	09/03/23	12:23	WS216	S	GL	0.44		3.01	-	-	-	F	-0.05	-	0.1	0.1	0.1	1.0	1.0	20.0	20.0	1	0	-	OK
Wider Site R11	09/03/23	14:02	WS217	S	GL	1.52	D	4.22	-	-	985	F	0.02	-	0.1	0.1	0.1	1.2	1.2	21.0	21.3	0	0	-	DRY
Wider Site R11	09/03/23	14:46	WS218	S	GL	0.34	D	2.20	-	-	984	F	-0.12	-	0.1	0.1	0.1	1.0	1.0	20.6	21.0	0	0	-	DRY
Wider Site R11	13/03/23	11:35	WS219	S	GL	0.19		2.21	-	-	983	F	-0.02	-	0.1	0.1	0.1	1.6	1.6	19.5	19.6	0	0	-	OK
Wider Site R11	13/03/23	11:49	WS220	S	GL	1.01		3.01	-	-	983	F	13.84	-	0.2	0.1	0.1	1.1	1.1	17.9	17.9	0	2	-	OK
Wider Site R11	09/03/23	12:30	WS221	S	GL	0.26	D	2.60	-	-	986	F	-0.25	-	0.1	0.1	0.1	1.2	1.2	19.9	20.2	2	0	-	DRY
Wider Site R11	09/03/23	14:34	WS222	S	GL	2.34	D	3.56	-	-	985	F	-0.07	-	0.1	0.1	0.1	1.0	1.0	20.5	20.6	0	0	-	DRY
Wider Site R11	13/03/23	11:28	WS223	S	GL	3.65	D*	3.65	-	-	983	F	-0.07	-	0.1	0.1	0.1	0.5	0.5	20.2	20.2	0	0	-	OK
Wider Site R11	14/03/23	15:00	WS224	S	GL	1.00		1.00	-	-	1004	R	0.11	-	0.1	0.1	0.1	0.5	0.5	20.5	20.6	0	0	-	OK
Wider Site R11	09/03/23	12:36	WS225	S	GL	0.26	D	2.54	-	-	986	F	-0.05	-	0.1	0.1	0.1	0.9	0.9	20.2	20.7	9	0	-	DRY
Wider Site R11	09/03/23	14:15	WS226	S	GL	3.13	D	4.06	-	-	985	F	0.00	-	0.1	0.1	0.1	0.6	0.6	21.1	21.4	1	0	-	DRY
Wider Site R11	09/03/23	14:29	WS227	S	GL	2.09	D	2.09	-	-	985	F	0.16	-	0.1	0.1	0.1	0.8	0.8	20.9	21.2	2	0	-	DRY
Wider Site R11	13/03/23	12:32	WS230	S	GL	1.81	D	1.81	-	-	983	F	-0.05	-	0.1	0.1	0.1	0.6	0.6	20.4	20.4	0	0	-	DRY
Wider Site R11	13/03/23	13:48	WS231	S	GL	3.32		4.99	-	-	983	F	0.09	-	0.1	0.1	0.1	3.9	3.5	15.0	18.4	1	0	-	OK
Wider Site R11	14/03/23	12:00	WS231	S	GL	0.92		3.01	-	-	1004	R	0.07	-	0.1	0.1	0.1	0.6	0.6	18.7	18.7	3	2	-	SILT
Wider Site R11	13/03/23	14:45	WS232	S	GL	2.04		2.04	-	-	984	F	2.45	-	0.2	0.1	0.1	0.7	0.7	19.7	19.7	1	1	-	OK
Wider Site R11	14/03/23	15:08	WS233	S	GL	2.50		2.50	-	-	1004	R	0.11	-	0.1	0.1	0.1	0.6	0.5	20.4	20.4	1	0	-	OK
Wider Site R11	14/03/23	14:33	WS239	S	GL	1.91		2.01	-	-	1004	R	-2.64	-	-0.8	0.1	0.1	1.2	1.2	17.2	17.2	4	3	-	OK
Wider Site R11	14/03/23	14:39	WS240	S	GL	0.47		1.39	-	-	1004	R	-2.31	-	-0.6	0.1	0.1	1.3	1.3	18.0	18.0	3	2	-	OK
Wider Site R11	14/03/23	13:03	WS241	S	GL	2.05		2.05	-	-	1003	R	0.09	-	0.1	0.1	0.1	0.9	0.9	20.2	20.2	0	1	-	OK
Wider Site R11	14/03/23	14:21	WS248	S	GL	1.18		1.18	-	-		R	2.86	-	0.9	0.1	0.1	0.8	0.8	16.5	16.5	0	3	-	OK
Wider Site R11	14/03/23	13:56	WS249	S	GL	2.77		2.77	-	-	1004	R	-4.23	-	0.1	0.1	0.1	1.3	1.3	20.2	20.3	0	1	-	OK
Wider Site R11	14/03/23	14:08	WS250	S	GL	1.09		1.09	-	-	1004	R	2.31	-	0.2	0.1	0.1	2.6	2.6	16.7	16.8	0	1	-	OK
Wider Site R11	14/03/23	13:14	WS251	S	GL	2.61		4.97	-	-	1003	R	-0.78	-	-0.1	0.1	0.1	1.6	1.6	17.3	17.3	0	2	-	OK
Wider Site R11	14/03/23	13:42	WS252	S	GL	0.26		1.70	-	-	1004	R	0.07	-	0.1	0.1	0.1	0.9	0.9	20.2	20.3	1	1	-	OK
Wider Site R12	05/04/23	11:31	BH01	S	GL	0.17		2.94	-	-	1015	F	-0.05	-	0.1	0.1	0.1	12.5	12.5	6.2	6.2	1	0	-	OK
Wider Site R12	05/04/23	12:01	BH02	S	GL	0.23		2.28	-	-	1015	F	-0.04	-	0.1	0.1	0.1	5.1	5.3	16.8	16.4	1	0	-	SILT
Wider Site R12	05/04/23	11:27	WS01	S	GL	0.25		2.28	-	-	1015	F	0.07	-	0.1	0.1	0.1	4.3	4.3	15.9	15.9	0	0	-	OK
Wider Site R12	05/04/23	11:17	WS02	S	GL	0.17		1.19	-	-	1015	F	0.00	-	0.1	0.1	0.1	2.8	2.9	17.2	15.6	0	0	-	OK
Wider Site R12	05/04/23	11:22	WS03	S	GL	0.63	D	1.97	-	-	1015	F	-0.11	-	0.1	0.1	0.1	11.6	12.2	7.4	7.4	0	0	-	DRY
Wider Site R12	05/04/23	12:05	WS04	S	GL	0.44		1.65	-	-	1015	F	0.05	-	0.1	0.1	0.1	14.5	14.5	2.5	2.5	1	0	-	OK
Wider Site R12	05/04/23	11:36	WS05	S	GL	0.71		1.01	-	-	1015	F	-0.05	-	0.1	0.1	0.1	5.8	5.8	16.0	15.7	0	0	-	OK
Wider Site R12	05/04/23	11:40	WS06	S	GL	0.28		0.90	-	-	1015	F	0.12	-	0.1	0.1	0.1	12.0	12.0	8.9	8.9	0	0	-	OK
Wider Site R12	05/04/23	11:44	WS07	S	GL	0.32		2.00	-	-	1015	F	-0.07	-	0.1	0.1	0.1	2.4	2.6	18.6	17.1	2	0	-	OK
Wider Site R12	05/04/23	11:53	WS08	S	GL	0.22		5.02	-	-	1015	F	0.04	-	0.1	0.1	0.1	7.0	7.0	15.4	15.3	2	0	-	OK
Wider Site R12	05/04/23	11:49	WS09	S	GL	Dry	D*	3.36	-	-	1015	F	-0.05	-	0.1	0.1	0.1	2.9	2.9	18.8	18.5	0	0	-	OK
Wider Site R12	05/04/23	11:13	WS10	S	GL	2.95		3.43	-	-	1015	F	-0.04	-	0.1	0.1	0.1	13.2	13.2	3.3	3.3	0	0	-	OK
Wider Site R12	06/04/23	12:45	BH201	S	GL	3.45		4.88	-	-	1007	F	0.11	-	0.1	0.1	0.1	0.9	0.9	19.8	19.8	0	0	-	OK
Wider Site R12	06/04/23	16:16	BH202	S	GL	1.44		5.16	-	-	1008	F	0.09	-	0.1	0.1	0.1	1.1	1.1	19.5	19.2	0	0	-	OK
Wider Site R12	05/04/23	13:37	BH203	S	GL	2.55		5.12	-	-	1015	F	0.07	-	0.1	0.1	0.1	1.0	1.0	19.1	19.0	0	0	-	OK
Wider Site R12	05/04/23	14:35	BH204	S	GL	1.84		5.28	-	-	1015	F	0.04	-	0.1	0.1	0.1	0.7	0.7	20.9	20.7	0	0	-	OK
Wider Site R12	05/04/23	13:58	BH205	S	GL	0.56		4.41	-	-	1015	F	-15.25	-	-6.0	0.1	0.1	0.8	0.8	17.2	17.2	1	0	-	OK
Wider Site R12	06/04/23	15:34	WS201	S	GL	0.56		1.93	-	-	1008	F	-0.07	-	0.1	0.1	0.1	0.8	2.9	19.8	19.4	0	0	-	OK
Wider Site R12	06/04/23	15:25	WS202	S	GL	0.48		2.02	-	-	1008	F	1.07	-	-4.5	0.1	0.1	1.2	1.2	19.7	19.7	1	0	-	OK
Wider Site R12	06/04/23	14:36	WS203	S	GL	Dry	D	2.02	-	-	1008	F	-0.02	-	0.1	0.1	0.1	0.7	0.7	20.3	20.0	1	0	-	DRY
Wider Site R12	06/04/23	14:12	WS204	S	GL	Dry	D	1.04	-	-	1009	F	-0.02	-	0.1	0.1	0.1	1.0	1.0	18.1	17.9	0	0	-	DRY
Wider Site R12	06/04/23	14:44	WS205	S	GL	0.77		2.99	-	-	1008	F	0.02	-	0.1	0.1	0.1	0.8	0.9	20.5	20.2	1	0	-	OK
Wider Site R12	06/04/23	13:59																							



Monitoring round			Well Details			Water/NAPL Monitoring (m below datum)					Pressure and flow (use < for below LoD)					Gas Concentrations (use < for below LoD)							Local conditions		
Round Reference	Date	Time	Well ID	Single or dual gas tap (S/D)	Datum Type (Casing / GL)	Depth to water	"D" denotes dry hole	Depth to Base of Hole	Depth to LNAPL	Depth to DNAPL	Atm. pressure (hPa)	Atm. pressure falling (F) / rising (R) / steady (S)	Relative BH pressure (hPa)	Initial Gas Flow (L/hr)	Steady Gas Flow (L/hr)	CH <sub>4</sub> (%v/v) - (Initial)	CH <sub>4</sub> (%v/v) - (Steady)	CO <sub>2</sub> (%v/v) - (Initial)	CO <sub>2</sub> (%v/v) - (Steady)	O <sub>2</sub> (%v/v) - (Initial)	O <sub>2</sub> (%v/v) - (Steady)	CO (ppm)	H <sub>2</sub> S (ppm)	VOC (as ppm using PID)	Notes on condition of borehole (including any)
Water Only R2	04/04/23	-	RO319	S	GL	0.47		5.56	-	-	-	F	-	-	-	-	-	-	-	-	-	-	-	-	OK
Water Only R2	04/04/23	-	RO320	S	GL	0.38		4.79	-	-	-	F	-	-	-	-	-	-	-	-	-	-	-	-	OK
Water Only R2	04/04/23	-	RO321	S	GL	0.76		3.91	-	-	-	F	-	-	-	-	-	-	-	-	-	-	-	-	SILT
Water Only R2	04/04/23	-	RO321A	S	GL	0.77		2.03	-	-	-	F	-	-	-	-	-	-	-	-	-	-	-	-	OK
Water Only R2	04/04/23	-	WS235	S	GL	-		-	-	-	-	F	-	-	-	-	-	-	-	-	-	-	-	-	
Water Only R2	04/04/23	-	WS236	S	GL	-		-	-	-	-	F	-	-	-	-	-	-	-	-	-	-	-	-	
Water Only R2	04/04/23	-	WS242	S	GL	-		-	-	-	-	F	-	-	-	-	-	-	-	-	-	-	-	-	
Wider Site R13	12/05/23	13:40	BH201	S	GL	3.29		4.87	-	-	1018	R	0.02	0.1	0.1	0.1	0.1	1.3	1.3	19.5	19.3	0	0	-	OK
Wider Site R13	12/05/23	15:31	BH202	S	GL	1.01		5.15	-	-	1019	R	0.11	0.1	0.1	0.1	0.1	0.1	0.1	22.2	21.9	0	0	-	OK
Wider Site R13	10/05/23	15:07	BH203	S	GL	2.71		4.99	-	-	1007	R	0.16	0.1	0.1	0.1	0.1	2.1	2.1	17.1	17.1	0	0	-	OK
Wider Site R13	10/05/23	16:23	BH204	S	GL	1.67		5.15	-	-	1007	R	0.02	0.1	0.1	0.1	0.1	0.9	0.9	21.1	20.9	0	0	-	SILT
Wider Site R13	10/05/23	15:38	BH205	S	GL	0.21		4.12	-	-	1008	R	-5.04	-2.4	-0.2	0.1	0.1	1.4	1.4	18.5	18.4	1	0	-	OK
Wider Site R13	15/05/23	11:57	WS201	S	GL	0.64		1.93	-	-	1011	R	0.05	0.1	0.1	0.1	0.1	0.7	0.8	11.6	10.4	0	0	-	OK
Wider Site R13	15/05/23	12:08	WS202	S	GL	0.24		2.02	-	-	1011	R	1.07	3.0	2.1	0.1	0.1	0.6	0.6	20.4	20.3	0	0	-	OK
Wider Site R13	15/05/23	13:32	WS203	S	GL	2.02	D	2.02	-	-	1011	R	-0.02	0.1	0.1	0.1	0.1	0.7	0.7	20.3	20.0	1	0	-	DRY
Wider Site R13	15/05/23	13:12	WS204	S	GL	1.04	D	1.04	-	-	1011	R	-0.02	0.1	0.1	0.1	0.1	1.0	1.0	18.1	17.9	0	0	-	DRY
Wider Site R13	15/05/23	13:41	WS205	S	GL	0.51		2.99	-	-	1011	R	0.05	0.1	0.1	0.1	0.1	1.9	1.9	19.3	19.2	0	0	-	SILT
Wider Site R13	15/05/23	12:57	WS206	S	GL	1.25		4.19	-	-	1011	R	-0.05	0.1	0.1	0.1	0.1	1.9	1.9	19.8	19.6	0	0	-	OK
Wider Site R13	15/05/23	12:50	WS207	S	GL	0.32		2.20	-	-	1011	R	0.07	-4.0	0.1	0.1	0.1	1.3	1.3	20.2	20.1	1	0	-	OK
Wider Site R13	15/05/23	12:43	WS208	S	GL	0.57		2.20	-	-	1011	R	1.23	0.2	0.2	0.1	0.1	1.6	1.6	19.4	19.4	0	0	-	OK
Wider Site R13	15/05/23	12:14	WS209	S	GL	0.84		3.01	-	-	1011	R	0.09	0.1	0.1	0.1	0.1	2.0	2.0	18.8	18.6	0	0	-	OK
Wider Site R13	15/05/23	12:28	WS210	S	GL	0.82		2.57	-	-	1011	R	0.04	0.1	0.1	0.1	0.1	0.1	0.1	21.2	21.1	1	0	-	OK
Wider Site R13	15/05/23	11:48	WS211	S	GL	1.43		3.56	-	-	1011	R	0.04	0.1	0.1	0.1	0.1	3.3	3.5	17.4	17.3	0	0	-	OK
Wider Site R13	12/05/23	14:16	WS213	S	GL	3.58		3.66	-	-	1018	R	-0.11	0.1	0.1	0.1	0.1	0.7	0.7	20.9	20.7	0	0	-	OK
Wider Site R13	12/05/23	14:24	WS214	S	GL	1.00	D	1.00	-	-	1018	R	-0.04	0.1	0.1	0.1	0.1	1.5	1.5	17.8	17.7	0	0	-	DRY
Wider Site R13	15/05/23	12:36	WS215	S	GL	0.24		2.54	-	-	1011	R	-0.05	0.1	0.1	0.1	0.1	1.0	1.0	20.2	20.2	0	0	-	OK
Wider Site R13	15/05/23	11:21	WS216	S	GL	2.90		4.07	-	-	1011	R	0.02	0.1	0.1	0.1	0.1	1.1	1.1	19.5	19.4	0	0	-	OK
Wider Site R13	12/05/23	14:09	WS217	S	GL	2.08	D	2.08	-	-	1018	R	0.04	0.1	0.1	0.1	0.1	1.3	1.3	20.9	20.6	0	0	-	DRY
Wider Site R13	12/05/23	14:33	WS218	S	GL	1.81	D	1.81	-	-	1018	R	0.14	0.1	0.1	0.1	0.1	1.5	1.5	19.7	19.4	0	0	-	DRY
Wider Site R13	12/05/23	15:02	WS219	S	GL	1.13		4.99	-	-	1019	R	0.00	0.1	0.1	0.1	0.1	1.7	1.7	19.7	19.7	0	0	-	OK
Wider Site R13	12/05/23	15:14	WS220	S	GL	0.91		3.02	-	-	1019	R	-0.02	0.1	0.1	0.1	0.1	0.4	0.5	21.4	21.1	0	0	-	OK
Wider Site R13	15/05/23	11:30	WS221	S	GL	2.03	D	2.03	-	-	1011	R	0.04	0.1	0.1	0.1	0.1	1.5	1.5	18.8	18.5	0	0	-	DRY
Wider Site R13	12/05/23	13:51	WS222	S	GL	2.49	D	2.49	-	-	1018	R	0.02	0.1	0.1	0.1	0.1	1.4	1.4	19.6	19.4	0	0	-	DRY
Wider Site R13	12/05/23	14:42	WS223	S	GL	1.82		2.01	-	-	1019	R	0.11	0.1	0.1	0.1	0.1	0.5	0.5	21.2	20.9	0	0	-	OK
Wider Site R13	11/05/23	11:48	WS224	S	GL	0.40		1.39	-	-	1010	R	0.19	0.1	0.1	0.1	0.1	0.2	0.2	21.1	21.0	1	0	-	OK
Wider Site R13	15/05/23	11:36	WS225	S	GL	2.04	D	2.04	-	-	1011	R	-0.09	0.1	0.1	0.1	0.1	1.0	1.0	19.9	19.6	0	0	-	DRY
Wider Site R13	15/05/23		WS226	S	GL	1.18	D	1.18	-	-	1011	R	-0.07	0.1	0.1	0.1	0.1	0.9	0.9	20.0	20.0	0	0	-	DRY
Wider Site R13	12/05/23	13:44	WS227	S	GL	2.77	D	2.77	-	-	1018	R	-0.25	0.1	0.1	0.1	0.1	1.0	1.0	19.9	19.8	0	0	-	DRY
Wider Site R13	10/05/23	14:55	WS228	S	GL	1.00		1.00	-	-	1007	R	-0.09	0.1	0.1	0.1	0.1	1.4	1.4	19.4	19.1	0	0	-	DRY
Wider Site R13	10/05/23	14:44	WS229	S	GL	1.94		1.94	-	-	1007	R	-0.02	0.1	0.1	0.1	0.1	0.7	0.7	20.0	19.7	0	0	-	OK
Wider Site R13	12/05/23	13:27	WS230	S	GL	1.08	D	1.08	-	-	1018	R	0.16	0.1	0.1	0.1	0.1	1.1	1.1	19.5	19.3	0	0	-	DRY
Wider Site R13	10/05/23	11:48	WS231	S	GL	2.36		4.96	-	-	1007	R	0.12	0.1	0.1	0.1	0.1	3.8	3.9	16.8	16.8	0	0	-	OK
Wider Site R13	12/05/23	15:21	WS232	S	GL	0.19		2.93	-	-	1019	R	-0.12	0.1	0.1	0.1	0.1	0.3	0.3	21.8	21.6	0	0	-	OK
Wider Site R13	11/05/23	11:33	WS233	S	GL	0.18		2.28	-	-	1011	R	-0.04	0.1	0.1	0.1	0.1	0.1	0.1	21.3	20.8	0	0	-	OK
Wider Site R13	11/05/23	12:04	WS234	S	GL	0.17		1.67	-	-	1011	R	7.21	3.0	0.2	0.1	0.1	0.7	0.7	19.6	19.4	6	0	-	OK
Wider Site R13	15/05/23	10:45	WS235	S	GL	1.20		5.06	-	-	1011	R	0.02	0.2	0.1	0.1	0.1	1.6	1.7	17.5	17.5	0	0	-	OK
Wider Site R13	15/05/23	10:30	WS236	S	GL	2.00	D	2.00	-	-	1011	R	-0.02	0.2	0.1	0.1	0.1	0.6	0.6	19.9	19.9	0	0	-	DRY
Wider Site R13	10/05/23	14:32	WS237	S	GL	1.01	D	1.01	-	-	1007	R	0.12	0.1	0.1	0.1	0.1	0.7	0.7	20.5	20.3	0	0	-	DRY
Wider Site R13	10/05/23	13:42	WS238	S	GL	1.89		5.06	-	-	1007	R	0.00	0.1	0.1	0.1	0.1	1.2	2.3	20.4	15.8	2	0	-	OK
Wider Site R13	11/05/23	11:18	WS239	S	GL	0.17		2.28	-	-	1011	R	-4.13	-2.1	-0.8	0.1	0.1	0.6	0.6	19.7	19.7	0	0	-	OK
Wider Site R13	11/05/23	11:25	WS240	S	GL	0.14		1.19	-	-	1011	R	2.75	0.3	0.8	0.1	0.1	0.9	0.9	20.3	20.1	2	0	-	OK
Wider Site R13	11/05/23	12:50	WS241	S	GL	0.63		1.97	-	-	1010	R	-0.11	0.1	0.1	0.1	0.1	0.1	0.1	21.5	21.3	1	0	-	OK
Wider Site R13	15/05/23	10:59	WS242	S	GL	0.45		3.65	-	-	1011	R	7.94	-4.9	0.1	0.1	0.1	2.6	2.7	18.0	17.9	1	0	-	OK
Wider Site R13	10/05/23	14:06	WS243	S	GL	1.01	D	1.01	-	-	1007	R	0.14	0.1	0.1	0.1	0.1	1.2	1.2	20.4	20.2	0	0	-	DRY
Wider Site R13	10/05/23	17:02	WS244	S	GL	0.27		0.88	-	-	1008	R	18.85	7.3	0.1	0.1	0.1	0.8	0.8	20.7	20.7	3	0	-	OK
Wider Site R13	10/05/23	15:51	WS245	S	GL	0.31		2.52	-	-	1007	R	6.98	3.4	0.2	0.1	0.1	1.7	1.7	17.3	17.3	4	0	-	SILT
Wider Site R13	10/05/23	16:02	WS246	S	GL	0.85		4.55	-	-	1008	R	-0.05	0.1	0.1	0.1	0.1	0.1	0.1	22.1	21.8	0	0	-	SILT
Wider Site R13	10/05/23	16:45	WS247	S	GL	-0.18		0.89	-	-	1008	R	9.84	3.8	0.1	0.1	0.1	1.2	1.2	18.5	18.4	4	0	-	ABOVE GROUND LEVEL
Wider Site R13	11/05/23	14:08	WS248	S	GL	0.43		1.65	-	-	1010	R	2.15	0.2	0.4	0.1	0.1	0.6	0.6	20.2	20.0	5	0	-	OK
Wider Site R13	11/05/23	13:43	WS249	S	GL	0.69		1.01	-	-	1010	R	0.02	0.1	0.1	0.1	0.1	3.1</							

Monitoring round			Well Details			Water/NAPL Monitoring (m below datum)					Pressure and flow (use < for below LoD)					Gas Concentrations (use < for below LoD)							Local conditions			
Round Reference	Date	Time	Well ID	Single or dual gas tap (S/D)	Datum Type (Casing / GL)	Depth to water	"D" denotes dry hole	Depth to Base of Hole	Depth to LNAPL	Depth to DNAPL	Atm. pressure (hPa)	Atm. pressure falling (F) / rising (R) / steady (S)	Relative BH pressure (hPa)	Initial Gas Flow (L/hr)	Steady Gas Flow (L/hr)	CH <sub>4</sub> (%v/v) - (Initial)	CH <sub>4</sub> (%v/v) - (Steady)	CO <sub>2</sub> (%v/v) - (Initial)	CO <sub>2</sub> (%v/v) - (Steady)	O <sub>2</sub> (%v/v) - (Initial)	O <sub>2</sub> (%v/v) - (Steady)	CO (ppm)	H <sub>2</sub> S (ppm)	VOC (as ppm using PID)	Notes on condition of borehole (including any)	
Water Only R3	11/05/23	-	CP303	S	GL	3.16		4.01	-	-	-	R	-	-	-	-	-	-	-	-	-	-	-	-	-	OK
Water Only R3	11/05/23	-	CP304	S	GL	2.87		4.06	-	-	-	R	-	-	-	-	-	-	-	-	-	-	-	-	-	OK
Water Only R3	11/05/23	-	CP305	S	GL	2.84		4.72	-	-	-	R	-	-	-	-	-	-	-	-	-	-	-	-	-	OK
Water Only R3	11/05/23	-	RO301	S	GL	0.30		7.69	-	-	-	R	-	-	-	-	-	-	-	-	-	-	-	-	-	OK
Water Only R3	11/05/23	-	RO302	S	GL	0.17		3.15	-	-	-	R	-	-	-	-	-	-	-	-	-	-	-	-	-	OK
Water Only R3	11/05/23	-	RO303	S	GL	0.11		3.53	-	-	-	R	-	-	-	-	-	-	-	-	-	-	-	-	-	OK
Water Only R3	11/05/23	-	RO304	S	GL	0.28		8.00	-	-	-	R	-	-	-	-	-	-	-	-	-	-	-	-	-	OK
Water Only R3	11/05/23	-	RO305	S	GL	0.35		2.38	-	-	-	R	-	-	-	-	-	-	-	-	-	-	-	-	-	OK
Water Only R3	11/05/23	-	RO306	S	GL	0.69		5.54	-	-	-	R	-	-	-	-	-	-	-	-	-	-	-	-	-	OK
Water Only R3	11/05/23	-	RO307	S	GL	1.18		5.11	-	-	-	R	-	-	-	-	-	-	-	-	-	-	-	-	-	OK
Water Only R3	11/05/23	-	RO307A	S	GL	1.20		2.17	-	-	-	R	-	-	-	-	-	-	-	-	-	-	-	-	-	OK
Water Only R3	11/05/23	-	RO309	S	GL	4.77		5.60	-	-	-	R	-	-	-	-	-	-	-	-	-	-	-	-	-	OK
Water Only R3	11/05/23	-	RO309A	S	GL	4.13		4.23	-	-	-	R	-	-	-	-	-	-	-	-	-	-	-	-	-	OK
Water Only R3	11/05/23	-	RO310	S	GL	3.89		6.27	-	-	-	R	-	-	-	-	-	-	-	-	-	-	-	-	-	OK
Water Only R3	11/05/23	-	RO311	S	GL	1.00		5.09	-	-	-	R	-	-	-	-	-	-	-	-	-	-	-	-	-	OK
Water Only R3	11/05/23	-	RO312	S	GL	3.56		9.32	-	-	-	R	-	-	-	-	-	-	-	-	-	-	-	-	-	OK
Water Only R3	11/05/23	-	RO312A	S	GL	2.04		2.11	-	-	-	R	-	-	-	-	-	-	-	-	-	-	-	-	-	OK
Water Only R3	11/05/23	-	RO313	S	GL	2.89		4.47	-	-	-	R	-	-	-	-	-	-	-	-	-	-	-	-	-	OK
Water Only R3	11/05/23	-	RO313A	S	GL	0.79	D	0.79	-	-	-	R	-	-	-	-	-	-	-	-	-	-	-	-	-	DRY
Water Only R3	11/05/23	-	RO314	S	GL	0.68		4.66	-	-	-	R	-	-	-	-	-	-	-	-	-	-	-	-	-	DAMAGED
Water Only R3	11/05/23	-	RO315	S	GL	0.19		5.03	-	-	-	R	-	-	-	-	-	-	-	-	-	-	-	-	-	OK
Water Only R3	11/05/23	-	RO316	S	GL	2.09		4.86	-	-	-	R	-	-	-	-	-	-	-	-	-	-	-	-	-	OK
Water Only R3	11/05/23	-	RO316A	S	GL	0.99		1.32	-	-	-	R	-	-	-	-	-	-	-	-	-	-	-	-	-	OK
Water Only R3	11/05/23	-	RO317	S	GL	0.34		7.43	-	-	-	R	-	-	-	-	-	-	-	-	-	-	-	-	-	OK
Water Only R3	11/05/23	-	RO318	S	GL	0.50		5.90	-	-	-	R	-	-	-	-	-	-	-	-	-	-	-	-	-	OK
Water Only R3	11/05/23	-	RO318A	S	GL	0.48		3.16	-	-	-	R	-	-	-	-	-	-	-	-	-	-	-	-	-	OK
Water Only R3	11/05/23	-	RO319	S	GL	0.46		5.56	-	-	-	R	-	-	-	-	-	-	-	-	-	-	-	-	-	OK
Water Only R3	11/05/23	-	RO320	S	GL	0.31		4.79	-	-	-	R	-	-	-	-	-	-	-	-	-	-	-	-	-	OK
Water Only R3	11/05/23	-	RO321	S	GL	0.73		3.91	-	-	-	R	-	-	-	-	-	-	-	-	-	-	-	-	-	SILT
Water Only R3	11/05/23	-	RO321A	S	GL	0.76		2.03	-	-	-	R	-	-	-	-	-	-	-	-	-	-	-	-	-	OK
Wider Site R14	07/06/23	16:04	BH201	S	GL	3.12		4.89	-	-	1019	S	-0.05	0.1	0.1	0.1	0.1	1.1	1.1	20.5	20.2	0	0	-	-	OK
Wider Site R14	09/06/23	15:31	BH202	S	GL	2.10		5.11	-	-	1019	S	0.11	0.1	0.1	0.1	0.1	0.1	0.1	22.2	21.9	0	0	-	-	OK
Wider Site R14	06/06/23	15:07	BH203	S	GL	0.77		5.10	-	-	1019	S	0.16	0.1	0.1	0.1	0.1	2.1	2.1	17.1	17.1	0	0	-	-	OK
Wider Site R14	06/06/23	16:23	BH204	S	GL	1.55		5.03	-	-	1019	S	0.02	0.1	0.1	0.1	0.1	0.9	0.9	21.1	20.9	0	0	-	-	SILT
Wider Site R14	06/06/23	15:38	BH205	S	GL	0.25		4.16	-	-	1019	S	-5.04	-2.4	-0.2	0.1	0.1	1.4	1.4	18.5	18.4	1	0	-	-	OK
Wider Site R14	05/06/23	13:08	WS201	S	GL	1.84		1.95	-	-	1019	S	0.05	0.1	0.1	0.1	0.1	1.1	1.2	12.7	12.3	0	0	-	-	OK
Wider Site R14	05/06/23	13:21	WS202	S	GL	0.70		2.03	-	-	1020	S	-2.57	-0.3	0.1	0.1	0.1	0.5	0.5	19.7	19.5	0	0	-	-	OK
Wider Site R14	05/06/23	13:52	WS203	S	GL	2.02	D	2.02	-	-	1019	S	0.14	0.1	0.1	0.1	0.1	1.0	1.1	20.2	19.9	0	0	-	-	DRY
Wider Site R14	05/06/23	14:12	WS204	S	GL	1.05	D	1.05	-	-	1019	S	0.00	0.1	0.1	0.1	0.1	3.4	3.8	18.2	17.9	0	0	-	-	DRY
Wider Site R14	05/06/23	13:40	WS205	S	GL	0.67		3.00	-	-	1020	S	0.14	0.1	0.1	0.1	0.1	0.2	0.2	21.2	21.0	1	0	-	-	OK
Wider Site R14	05/06/23	14:21	WS206	S	GL	1.66		4.16	-	-	1019	S	0.12	0.1	0.1	0.1	0.1	2.5	2.5	19.7	19.5	0	0	-	-	OK
Wider Site R14	05/06/23	14:35	WS207	S	GL	0.70		-0.24	-	-	1020	S	0.05	0.1	0.1	0.1	0.1	0.3	0.3	21.5	20.7	1	0	-	-	OK
Wider Site R14	05/06/23	15:03	WS208	S	GL	0.47		2.22	-	-	1020	S	-19.45	-7.2	-0.2	0.1	0.1	1.6	1.8	19.4	19.2	3	0	-	-	OK
Wider Site R14	05/06/23	16:08	WS209	S	GL	1.05		3.00	-	-	1019	S	0.07	0.1	0.1	0.1	0.1	0.0	0.1	21.7	21.1	1	0	-	-	OK
Wider Site R14	05/06/23	15:43	WS210	S	GL	0.57		2.58	-	-	1019	S	-14.03	-5.8	-0.1	0.1	0.1	0.6	0.6	20.6	20.4	1	0	-	-	OK
Wider Site R14	05/06/23	12:59	WS211	S	GL	2.22		3.56	-	-	1019	S	0.02	0.1	0.1	0.1	0.1	2.9	2.9	17.9	17.9	0	0	-	-	OK
Wider Site R14	09/06/23	14:16	WS213	S	GL	3.65	D	3.65	-	-	1018	S	-0.11	0.1	0.1	0.1	0.1	0.7	0.7	20.9	20.7	0	0	-	-	DRY
Wider Site R14	09/06/23	14:24	WS214	S	GL	1.01	D	1.01	-	-	1018	S	-0.04	0.1	0.1	0.1	0.1	1.5	1.5	17.8	17.7	0	0	-	-	DRY
Wider Site R14	07/06/23	13:42	WS216	S	GL	2.97		4.09	-	-	1019	S	-0.19	0.1	0.1	0.1	0.1	1.5	1.5	18.9	18.6	0	0	-	-	OK
Wider Site R14	09/06/23	14:09	WS217	S	GL	2.08	D	2.08	-	-	1018	S	0.04	0.1	0.1	0.1	0.1	1.3	1.3	20.9	20.6	0	0	-	-	DRY
Wider Site R14	09/06/23	14:33	WS218	S	GL	1.81	D	1.81	-	-	1018	S	0.14	0.1	0.1	0.1	0.1	1.5	1.5	19.7	19.4	0	0	-	-	DRY
Wider Site R14	09/06/23	15:02	WS219	S	GL	1.55		4.99	-	-	1019	S	0.00	0.1	0.1	0.1	0.1	1.7	1.7	19.7	19.7	0	0	-	-	OK
Wider Site R14	09/06/23	15:14	WS220	S	GL	1.22		3.00	-	-	1019	S	-0.02	0.1	0.1	0.1	0.1	0.4	0.5	21.4	21.1	0	0	-	-	OK
Wider Site R14	07/06/23	13:48	WS221	S	GL	2.03	D	2.03	-	-	1019	S	-0.09	0.1	0.1	0.1	0.1	1.1	1.1	19.9	19.8	0	1	-	-	DRY
Wider Site R14	09/06/23	13:51	WS222	S	GL	2.49	D	2.49	-	-	1018	S	0.02	0.1	0.1	0.1	0.1	1.4	1.4	19.6	19.4	0	0	-	-	DRY
Wider Site R14	09/06/23	14:42	WS223	S	GL	1.91		2.01	-	-	1019	S	0.11	0.1	0.1	0.1	0.1	0.5	0.5	21.2	20.9	0	0	-	-	OK
Wider Site R14	08/06/23	11:48	WS224	S	GL	0.66		1.39	-	-	1019	S	0.19	0.1	0.1	0.1	0.1	0.2	0.2	21.1	21.0	1	0	-	-	OK
Wider Site R14	07/06/23	13:55	WS225	S	GL	2.04	D	2.04	-	-	1019	S	0.23	0.1	0.1	0.1	0.1	1.3	1.3	19.6	19.5	0	0	-	-	DRY
Wider Site R14	07/06/23	16:15	WS226	S	GL	1.18	D	1.18	-	-	1019	S	-0.07	0.1	0.1	0.1	0.1	0.9	0.9	20.0	20.0	0	0	-	-	DRY
Wider Site R14	09/06/23	13:44	WS227	S	GL	2.77	D	2.77	-	-	1018	S	-0.25	0.1	0.1	0.1	0.1	1.0	1.0	19.9	19.8	0	0	-	-	DRY
Wider Site R14	06/06/23	14:55	WS228	S	GL	1.95	D	1.95	-	-	1019	S	-0.09	0.1	0.1	0.1	0.1	1.4	1.4	19.4	19.1	0	0	-	-	DRY
Wider Site R14	06/06/23	14:44	WS229	S	GL	1.07	D	1.07	-	-	1019	S	-0.02	0.1	0.1	0.1	0.1	0.7	0.7	20.0	19.7	0	0	-	-	DRY
Wider Site R14	07/06/23	15:52	WS230	S	GL	1.46	D	1.46	-	-	1018	S	0.05	0.1	0.1	0.1	0.1	0.0	0.0	21.						

Monitoring round			Well Details			Water/NAPL Monitoring (m below datum)					Pressure and flow (use < for below LoD)					Gas Concentrations (use < for below LoD)							Local conditions		
Round Reference	Date	Time	Well ID	Single or dual gas tap (S/D)	Datum Type (Casing / GL)	Depth to water	"D" denotes dry hole	Depth to Base of Hole	Depth to LNAPL	Depth to DNAPL	Atm. pressure (hPa)	Atm. pressure falling (F) / rising (R) / steady (S)	Relative BH pressure (hPa)	Initial Gas Flow (L/hr)	Steady Gas Flow (L/hr)	CH <sub>4</sub> (%v/v) - (Initial)	CH <sub>4</sub> (%v/v) - (Steady)	CO <sub>2</sub> (%v/v) - (Initial)	CO <sub>2</sub> (%v/v) - (Steady)	O <sub>2</sub> (%v/v) - (Initial)	O <sub>2</sub> (%v/v) - (Steady)	CO (ppm)	H <sub>2</sub> S (ppm)	VOC (as ppm using PID)	Notes on condition of borehole (including any)
Wider Site R14	08/06/23	11:33	WS233	S	GL	0.72		1.95	-	-	1019	S	-0.04	0.1	0.1	0.1	0.1	0.1	0.1	21.3	20.8	0	0	-	OK
Wider Site R14	08/06/23	12:04	WS234	S	GL	0.82		1.67	-	-	1019	S	7.21	3.0	0.2	0.1	0.1	0.7	0.7	19.6	19.4	6	0	-	OK
Wider Site R14	07/06/23	14:22	WS235	S	GL	0.87		4.94	-	-	1019	S	-0.16	0.1	0.1	0.1	0.1	0.7	0.9	19.9	19.0	1	0	-	OK
Wider Site R14	07/06/23	14:14	WS236	S	GL	1.98	D	1.98	-	-	1019	S	-0.07	0.1	0.1	0.1	0.1	3.2	3.5	16.7	16.7	2	0	-	DRY
Wider Site R14	06/06/23	14:32	WS237	S	GL	1.37	D	1.37	-	-	1020	S	0.12	0.1	0.1	0.1	0.1	0.7	0.7	20.5	20.3	0	0	-	DRY
Wider Site R14	06/06/23	13:42	WS238	S	GL	1.98		4.98	-	-	1020	S	0.00	0.1	0.1	0.1	0.1	1.2	2.3	20.4	15.8	2	0	-	OK
Wider Site R14	08/06/23	11:18	WS239	S	GL	0.76		2.29	-	-	1019	S	-4.13	-2.1	-0.8	0.1	0.1	0.6	0.6	19.7	19.7	0	0	-	OK
Wider Site R14	08/06/23	12:50	WS241	S	GL	1.17		1.97	-	-	1019	S	-0.11	0.1	0.1	0.1	0.1	0.1	0.1	21.5	21.3	1	0	-	OK
Wider Site R14	07/06/23	14:40	WS242	S	GL	0.45		3.53	-	-	1020	S	-14.90	-5.6	-0.1	0.1	0.1	0.9	0.9	13.0	13.0	36	0	-	OK
Wider Site R14	06/06/23	14:06	WS243	S	GL	1.02	D	1.02	-	-	1020	S	0.14	0.1	0.1	0.1	0.1	1.2	1.2	20.4	20.2	0	0	-	DRY
Wider Site R14	06/06/23	17:02	WS244	S	GL	0.88		0.95	-	-	1019	S	18.85	7.3	0.1	0.1	0.1	0.8	0.8	20.7	20.7	3	0	-	OK
Wider Site R14	06/06/23	15:51	WS245	S	GL	0.74		2.16	-	-	1019	S	6.98	3.4	0.2	0.1	0.1	1.7	1.7	17.3	17.3	4	0	-	SILT
Wider Site R14	06/06/23	16:02	WS246	S	GL	1.09		4.49	-	-	1019	S	-0.05	0.1	0.1	0.1	0.1	0.1	0.1	22.1	21.8	0	0	-	SILT
Wider Site R14	06/06/23	16:45	WS247	S	GL	0.21		0.96	-	-	1019	S	9.84	3.8	-0.1	0.1	0.1	1.2	1.2	18.5	18.4	4	0	-	OK
Wider Site R14	08/06/23	14:08	WS248	S	GL	0.92		1.66	-	-	1019	S	2.15	0.2	0.4	0.1	0.1	0.6	0.6	20.2	20.0	5	0	-	OK
Wider Site R14	08/06/23	13:43	WS249	S	GL	0.98	D	0.98	-	-	1019	S	0.02	0.1	0.1	0.1	0.1	3.1	3.1	16.8	16.8	1	0	-	DRY
Wider Site R14	08/06/23	13:57	WS250	S	GL	0.90	D	0.90	-	-	1019	S	7.53	2.8	0.5	0.1	0.1	3.3	3.3	15.6	15.5	1	0	-	DRY
Wider Site R14	08/06/23	13:14	WS251	S	GL	0.62		2.00	-	-	1019	S	-3.58	-1.7	0.1	0.1	0.1	0.3	0.4	21.1	20.7	0	0	-	OK
Wider Site R14	08/06/23	13:30	WS252	S	GL	0.70		4.97	-	-	1019	S	-0.12	0.1	0.1	0.1	0.1	0.2	0.2	21.9	21.7	0	0	-	OK
Water Only R4	05/06/23	-	CP301	S	GL	2.16		4.71	-	-	-	S	-	-	-	-	-	-	-	-	-	-	-	-	silt
Water Only R4	07/06/23	-	CP302	S	GL	1.85		4.12	-	-	-	S	-	-	-	-	-	-	-	-	-	-	-	-	-
Water Only R4	09/06/23	-	CP303	S	GL	2.95		4.01	-	-	-	S	-	-	-	-	-	-	-	-	-	-	-	-	-
Water Only R4	09/06/23	-	CP304	S	GL	2.97		4.08	-	-	-	S	-	-	-	-	-	-	-	-	-	-	-	-	-
Water Only R4	09/06/23	-	CP305	S	GL	2.94		4.72	-	-	-	S	-	-	-	-	-	-	-	-	-	-	-	-	-
Water Only R4	09/06/23	-	RO301	S	GL	0.26		7.47	-	-	-	S	-	-	-	-	-	-	-	-	-	-	-	-	-
Water Only R4	09/06/23	-	RO302	S	GL	0.70		3.18	-	-	-	S	-	-	-	-	-	-	-	-	-	-	-	-	-
Water Only R4	08/06/23	-	RO303	S	GL	0.77		3.63	-	-	-	S	-	-	-	-	-	-	-	-	-	-	-	-	-
Water Only R4	08/06/23	-	RO304	S	GL	0.50		7.98	-	-	-	S	-	-	-	-	-	-	-	-	-	-	-	-	-
Water Only R4	09/06/23	-	RO305	S	GL	0.40		2.40	-	-	-	S	-	-	-	-	-	-	-	-	-	-	-	-	-
Water Only R4	05/06/23	-	RO306	S	GL	0.73		5.44	-	-	-	S	-	-	-	-	-	-	-	-	-	-	-	-	-
Water Only R4	05/06/23	-	RO307	S	GL	1.36		5.17	-	-	-	S	-	-	-	-	-	-	-	-	-	-	-	-	-
Water Only R4	05/06/23	-	RO307A	S	GL	1.36		2.20	-	-	-	S	-	-	-	-	-	-	-	-	-	-	-	-	-
Water Only R4	05/06/23	-	RO309A	S	GL	4.24		4.34	-	-	-	S	-	-	-	-	-	-	-	-	-	-	-	-	-
Water Only R4	05/06/23	-	RO309	S	GL	4.96		5.60	-	-	-	S	-	-	-	-	-	-	-	-	-	-	-	-	-
Water Only R4	05/06/23	-	RO310	S	GL	3.93		5.91	-	-	-	S	-	-	-	-	-	-	-	-	-	-	-	-	-
Water Only R4	05/06/23	-	RO311	S	GL	1.09		5.05	-	-	-	S	-	-	-	-	-	-	-	-	-	-	-	-	-
Water Only R4	05/06/23	-	RO312A	S	GL	2.21	D	2.21	-	-	-	S	-	-	-	-	-	-	-	-	-	-	-	-	DRY
Water Only R4	05/06/23	-	RO312	S	GL	3.59		9.39	-	-	-	S	-	-	-	-	-	-	-	-	-	-	-	-	silt
Water Only R4	05/06/23	-	RO313	S	GL	3.44		4.64	-	-	-	S	-	-	-	-	-	-	-	-	-	-	-	-	-
Water Only R4	05/06/23	-	RO313A	S	GL	0.78	D	0.78	-	-	-	S	-	-	-	-	-	-	-	-	-	-	-	-	DRY
Water Only R4	05/06/23	-	RO314	S	GL	0.90		4.60	-	-	-	S	-	-	-	-	-	-	-	-	-	-	-	-	-
Water Only R4	09/06/23	-	RO315	S	GL	0.30		4.61	-	-	-	S	-	-	-	-	-	-	-	-	-	-	-	-	-
Water Only R4	09/06/23	-	RO316A	S	GL	1.22		1.41	-	-	-	S	-	-	-	-	-	-	-	-	-	-	-	-	-
Water Only R4	09/06/23	-	RO316	S	GL	2.24		5.46	-	-	-	S	-	-	-	-	-	-	-	-	-	-	-	-	-
Water Only R4	05/06/23	-	RO317	S	GL	0.63		7.59	-	-	-	S	-	-	-	-	-	-	-	-	-	-	-	-	-
Water Only R4	05/06/23	-	RO318	S	GL	0.68		5.90	-	-	-	S	-	-	-	-	-	-	-	-	-	-	-	-	-
Water Only R4	05/06/23	-	RO318A	S	GL	0.67		4.16	-	-	-	S	-	-	-	-	-	-	-	-	-	-	-	-	ANTS
Water Only R4	05/06/23	-	RO319	S	GL	0.66		5.56	-	-	-	S	-	-	-	-	-	-	-	-	-	-	-	-	-
Water Only R4	09/06/23	-	RO320	S	GL	0.53		5.09	-	-	-	S	-	-	-	-	-	-	-	-	-	-	-	-	-
Water Only R4	09/06/23	-	RO321	S	GL	0.87		3.89	-	-	-	S	-	-	-	-	-	-	-	-	-	-	-	-	silt
Water Only R4	09/06/23	-	RO321A	S	GL	0.79		2.04	-	-	-	S	-	-	-	-	-	-	-	-	-	-	-	-	-
Water Only R4	08/06/23	-	WS240	S	GL	0.00		0.00	-	-	-	S	-	-	-	-	-	-	-	-	-	-	-	-	Mower damaged - no pipe to test
Water Only R4	05/06/23	-	WS215	S	GL	0.00		0.00	-	-	-	S	-	-	-	-	-	-	-	-	-	-	-	-	Vandalism - pipe damaged

## *Ground Gas Risk Assessment*

Site: Begbroke, Oxfordshire											Notes:														
Job number: 19114											Where the flow or concentration is less than the limit of detection of the instrument, the detection limit is reported.														
Client: Oxford University Development Ltd											Blue text indicates water level above top of screen						D* indicates minimal water in well, likely to be associated with water trapped in the end cap								
Monitoring round			Well Details			Water/NAPL Monitoring (m below datum)					Pressure and flow (use < for below LoD)					Gas Concentrations (use < for below LoD)							Local conditions		
Round Reference	Date	Time	Well ID	Single or dual gas tap (S/D)	Datum Type (Casing / GL)	Depth to water	"D" denotes dry hole	Depth to Base of Hole	Depth to LNAPL	Depth to DNAPL	Atm. pressure (hPa)	Atm. pressure falling (F) / rising (R) / steady (S)	Relative BH pressure (hPa)	Initial Gas Flow (L/hr)	Steady Gas Flow (L/hr)	CH <sub>4</sub> (%v/v) - (Initial)	CH <sub>4</sub> (%v/v) - (Steady)	CO <sub>2</sub> (%v/v) - (Initial)	CO <sub>2</sub> (%v/v) - (Steady)	O <sub>2</sub> (%v/v) - (Initial)	O <sub>2</sub> (%v/v) - (Steady)	CO (ppm)	H <sub>2</sub> S (ppm)	VOC (as ppm using PID)	Notes on condition of borehole (including any)
Landfill R1	24/08/21	11:23	BH01	S	GL	3.37		9.98	-	-	1023	R	0.14	-	0.2	0.1	0.1	13.0	13.0	8.4	8.4	6	0	-	OK
Landfill R1	24/08/21	14:18	BH02	S	GL	3.02		8.75	-	-	1023	R	0.00	-	0.2	0.1	0.1	8.8	8.7	12.2	12.3	2	0	-	OK
Landfill R1	24/08/21	11:51	BH03	S	GL	3.35		8.11	-	-	1025	R	0.02	-	0.2	0.1	0.1	14.8	14.7	5.9	5.9	10	0	-	OK
Landfill R1	24/08/21	11:16	WS01	S	GL	Dry	D*	3.24	-	-	1023	R	0.05	-	0.2	0.1	0.1	12.8	12.8	9.6	9.6	1	0	-	OK
Landfill R1	24/08/21	12:54	WS02	S	GL	Dry	D	3.69	-	-	1025	R	0.02	-	0.3	0.1	0.1	3.2	3.2	17.4	17.5	1	0	-	DRY
Landfill R1	24/08/21	13:01	WS03	S	GL	Dry	D	2.69	-	-	1024	R	0.02	-	0.3	0.1	0.1	8.9	8.9	12.5	12.5	3	0	-	DRY
Landfill R1	24/08/21	12:33	WS04	S	GL	Dry	D	3.07	-	-	1024	R	0.00	-	0.2	0.3	0.3	15.5	15.5	1.8	1.8	4	0	-	DRY
Landfill R1	24/08/21	11:31	WS05	S	GL	2.59		3.17	-	-	1023	R	0.04	-	0.3	0.1	0.1	8.2	8.2	12.8	12.8	1	0	-	OK
Landfill R1	24/08/21	11:39	WS06	S	GL	1.88		2.10	-	-	1024	R	0.07	-	0.1	0.1	0.1	8.5	8.4	12.0	12.0	2	0	-	OK
Landfill R1	24/08/21	11:58	WS07	S	GL	Dry	D*	2.54	-	-	1025	R	0.12	-	0.2	0.1	0.1	3.1	3.1	16.5	17.5	0	0	-	OK
Landfill R1	24/08/21	12:23	WS08	S	GL	Dry	D	3.91	-	-	1025	R	0.02	-	0.2	0.1	0.1	7.5	7.5	14.8	14.8	1	0	-	DRY
Landfill R1	24/08/21	12:08	WS09	S	GL	Dry	D	3.05	-	-	1025	R	0.02	-	0.1	0.1	0.1	3.1	3.1	18.3	18.4	1	0	-	DRY
Landfill R1	24/08/21	12:43	WS10	S	GL	Dry	D	3.11	-	-	1024	R	0.04	-	0.2	0.1	0.1	6.1	6.1	12.4	12.4	0	0	-	DRY
Landfill R2	07/09/21	10:43	BH01	S	GL	3.91		9.98	-	-	1014	F	0.07	-	0.2	0.1	0.1	11.6	11.6	9.0	9.0	1	0	-	CO MAXED OUT AT 248ppm BEFORE SETTLING BACK TO
Landfill R2	07/09/21	11:27	BH02	S	GL	3.02		8.75	-	-	1015	F	0.02	-	0.1	0.1	0.1	9.7	9.7	11.8	11.9	5	0	-	OK
Landfill R2	07/09/21	11:03	BH03	S	GL	3.38		8.11	-	-	1014	F	0.05	-	-0.5	0.1	0.1	8.0	8.0	12.7	12.7	6	0	-	OK
Landfill R2	07/09/21	10:39	WS01	S	GL	Dry	D	3.15	-	-	1014	F	0.02	-	0.2	0.1	0.1	13.3	13.3	10.7	10.7	1	0	-	DRY
Landfill R2	07/09/21	11:42	WS02	S	GL	Dry	D	3.60	-	-	1015	F	0.25	-	0.2	0.1	0.1	3.8	3.8	16.9	16.9	1	0	-	DRY
Landfill R2	07/09/21	11:48	WS03	S	GL	Dry	D	2.62	-	-	1015	F	0.05	-	0.2	0.1	0.1	9.0	9.0	11.6	11.6	3	0	-	DRY
Landfill R2	07/09/21	11:31	WS04	S	GL	Dry	D	3.01	-	-	1015	F	0.02	-	0.2	0.2	0.2	16.3	16.3	1.1	1.1	4	0	-	DRY
Landfill R2	07/09/21	10:51	WS05	S	GL	2.61		3.17	-	-	1014	F	0.02	-	0.1	0.1	0.1	4.2	4.2	16.3	16.4	0	0	-	OK
Landfill R2	07/09/21	10:57	WS06	S	GL	Dry	D*	2.10	-	-	1014	F	-0.04	-	0.1	0.1	0.1	7.1	7.1	12.8	12.8	1	0	-	OK
Landfill R2	07/09/21	11:09	WS07	S	GL	Dry	D*	2.54	-	-	1015	F	0.04	-	0.2	0.1	0.1	3.9	3.9	16.4	16.4	0	0	-	OK
Landfill R2	07/09/21	11:22	WS08	S	GL	Dry	D	3.88	-	-	1015	F	-0.05	-	0.1	0.1	0.1	7.2	7.2	14.4	14.5	1	0	-	DRY
Landfill R2	07/09/21	11:15	WS09	S	GL	Dry	D	2.96	-	-	1015	F	0.07	-	0.2	0.1	0.1	3.2	3.2	17.5	17.5	1	0	-	DRY
Landfill R2	07/09/21	11:37	WS10	S	GL	Dry	D	3.05	-	-	1015	F	0.02	-	0.2	0.1	0.1	3.7	3.6	14.4	15.7	0	0	-	DRY
Landfill R3	14/09/21	12:17	BH01	S	GL	3.96		9.98	-	-	1004	F	-0.12	-	0.1	0.1	0.1	11.5	11.5	9.7	9.7	0	0	-	SAMPLE
Landfill R3	14/09/21	13:03	BH02	S	GL	3.04		8.75	-	-	1005	F	0.00	-	0.1	0.1	0.1	10.6	10.6	11.8	11.8	2	0	-	SAMPLE
Landfill R3	14/09/21	12:34	BH03	S	GL	3.39		8.11	-	-	1004	F	0.07	-	-1.3	0.1	0.1	8.1	8.1	13.3	13.4	3	0	-	SAMPLE
Landfill R3	14/09/21	12:04	WS01	S	GL	Dry	D	3.15	-	-	1004	F	-0.09	-	0.1	0.1	0.1	11.3	11.3	12.8	12.8	0	0	-	DRY
Landfill R3	14/09/21	13:21	WS02	S	GL	Dry	D*	3.69	-	-	1005	F	-0.07	-	0.2	0.1	0.1	3.7	3.7	17.6	17.7	0	0	-	OK
Landfill R3	14/09/21	13:26	WS03	S	GL	Dry	D*	2.69	-	-	1005	F	0.14	-	0.1	0.1	0.1	7.3	7.3	14.6	14.6	0	0	-	OK
Landfill R3	14/09/21	13:13	WS04	S	GL	Dry	D*	3.07	-	-	1005	F	-0.25	-	0.1	0.3	0.3	14.1	14.1	4.1	4.1	0	0	-	OK
Landfill R3	14/09/21	12:23	WS05	S	GL	2.63		3.10	-	-	1004	F	-0.04	-	0.1	0.1	0.1	4.8	4.8	16.5	16.5	0	0	-	OK
Landfill R3	14/09/21	12:28	WS06	S	GL	1.89		2.10	-	-	1004	F	0.12	-	0.1	0.1	0.1	6.0	6.0	14.9	14.9	0	0	-	OK
Landfill R3	14/09/21	12:49	WS07	S	GL	Dry	D*	2.54	-	-	1004	F	0.02	-	0.1	0.1	0.1	3.4	3.4	17.5	17.5	0	0	-	OK
Landfill R3	14/09/21	12:59	WS08	S	GL	Dry	D*	3.91	-	-	1005	F	0.02	-	0.1	0.1	0.1	7.2	7.2	15.1	15.1	0	0	-	OK
Landfill R3	14/09/21	12:54	WS09	S	GL	Dry	D*	3.05	-	-	1004	F	-0.11	-	0.1	0.1	0.1	3.4	3.4	18.5	18.5	0	0	-	OK
Landfill R3	14/09/21	13:17	WS10	S	GL	Dry	D*	3.11	-	-	1005	F	-0.05	-	0.1	0.1	0.1	9.1	4.0	13.6	15.9	0	0	-	OK
Landfill R4	21/09/21	11:38	BH01	S	GL	3.97		9.98	-	-	1023	R	0.05	-	0.1	0.1	0.1	9.9	9.9	12.3	12.3	3	1	-	OK
Landfill R4	21/09/21	12:23	BH02	S	GL	3.05		8.75	-	-	1024	R	-0.04	-	0.1	0.1	0.1	6.1	6.1	15.6	15.6	3	0	-	OK
Landfill R4	21/09/21	12:00	BH03	S	GL	3.42		8.11	-	-	1024	R	0.05	-	-1.0	0.1	0.1	5.5	5.5	15.7	15.8	3	0	-	OK
Landfill R4	21/09/21	11:33	WS01	S	GL	Dry	D	3.15	-	-	1023	R	-0.35	-	0.1	0.1	0.1	6.6	6.6	15.3	15.3	0	1	-	DRY
Landfill R4	21/09/21	12:39	WS02	S	GL	Dry	D*	3.69	-	-	1025	R	0.00	-	0.2	0.1	0.1	4.4	4.4	16.6	16.6	1	0	-	OK
Landfill R4	21/09/21	12:45	WS03	S	GL	Dry	D	2.65	-	-	1024	R	0.02	-	0.2	0.1	0.1	8.5	8.5	12.5	12.5	2	0	-	OK
Landfill R4	21/09/21	12:29	WS04	S	GL	Dry	D	3.00	-	-	1025	R	0.12	-	0.2	0.1	0.1	5.3	5.3	13.1	13.2	2	0	-	DRY
Landfill R4	21/09/21	11:44	WS05	S	GL	2.71		3.10	-	-	1023	R	-0.07	-	0.1	0.1	0.1	4.3	4.3	16.7	16.7	0	1	-	OK
Landfill R4	21/09/21	11:54	WS06	S	GL	Dry	D*	2.10	-	-	1024	R	-0.07	-	0.1	0.1	0.1	7.1	7.0	13.5	13.6	0	0	-	OK
Landfill R4	21/09/21	12:06	WS07	S	GL	Dry	D*	2.54	-	-	1024	R	0.02	-	0.2	0.1	0.1	3.1	3.1	17.6	17.6	0	0	-	OK
Landfill R4	21/09/21	12:18	WS08	S	GL	Dry	D	4.83	-	-	1024	R	-0.05	-	0.2	0.1	0.1	7.0	7.0	14.5	14.5	1	0	-	DRY
Landfill R4	21/09/21	12:11	WS09	S	GL	Dry	D	2.97	-	-	1024	R	-0.12	-	0.2	0.1	0.1	3.3	3.3	17.9	17.9	1	0	-	DRY
Landfill R4	21/09/21	12:34	WS10	S	GL	Dry	D	3.05	-	-	1025	R	0.07	-	0.2	0.1	0.1	3.5	3.5	16.3	16.3	1	0	-	DRY
Landfill R5	28/09/21	12:07	BH01	S	GL	3.98		9.98	-	-	1006	R	0.04	-	0.1	0.1	0.1	13.6	12.0	11.5	11.5	2	1	-	OK
Landfill R5	28/09/21	12:45	BH02	S	GL	3.07		8.75	-	-	1007	R	0.09	-	0.1	0.1	0.1	5.6	5.6	16.4	16.5	3	0	-	OK
Landfill R5	28/09/21	12:23	BH03	S	GL	3.45		8.11	-	-	1007	R	0.04	-	-0.2	0.1	0.1	5.7	5.7	15.6	15.7	3	1	-	OK
Landfill R5	28/09/21	12:02	WS01	S	GL	Dry	D	3.15	-	-	1006	R	-0.16	-	0.1	0.1	0.1	2.5	2.5	19.4	19.4	0	0	-	DRY
Landfill R5	28/09/21	13:01	WS02	S	GL	Dry	D*	3.69	-	-	1007	R	0.04	-	0.1	0.1	0.1	4.8	4.8	17.0	17.1	0	0	-	OK
Landfill R5	28/09/21	13:08	WS03	S	GL	Dry	D	2.65	-	-	1007	R	0.21	-	0.2	0.1	0.1	9.5	9.5	12.9	13.0	1	0	-	DRY
Landfill R5	28/09/21	12:50	WS04	S	GL	Dry	D	3.00	-	-	1007	R	0.07	-	0.1	0.1	0.1	6.4	6.4	12.5	12.5	1	0	-	DRY
Landfill R5	28/09/21	12:14	WS05	S	GL	2.88																			



Monitoring round			Well Details			Water / NAPL Monitoring (m below datum)					Pressure and flow (use < for below LoD)					Gas Concentrations (use < for below LoD)								Local conditions	
Round Reference	Date	Time	Well ID	Single or dual gas tap (S/D)	Datum Type (Casing / GL)	Depth to water	"D" denotes dry hole	Depth to Base of Hole	Depth to LNAPL	Depth to DNAPL	Atm. pressure (hPa)	Atm. pressure falling (F) / rising (R) / steady (S)	Relative BH pressure (hPa)	Initial Gas Flow (L/hr)	Steady Gas Flow (L/hr)	CH <sub>4</sub> (%v/v) - (Initial)	CH <sub>4</sub> (%v/v) - (Steady)	CO <sub>2</sub> (%v/v) - (Initial)	CO <sub>2</sub> (%v/v) - (Steady)	O <sub>2</sub> (%v/v) - (Initial)	O <sub>2</sub> (%v/v) - (Steady)	CO (ppm)	H <sub>2</sub> S (ppm)	VOC (as ppm using PID)	Notes on condition of borehole (including any)
Landfill R5	28/09/21	12:34	WS07	S	GL	Dry	D*	2.54	-	-	1007	R	0.04	-	0.2	0.1	0.1	2.4	2.4	18.8	18.8	0	0	-	OK
Landfill R5	28/09/21	12:40	WS08	S	GL	Dry	D	4.83	-	-	1007	R	-0.07	-	0.1	0.1	0.1	5.8	5.8	16.6	16.7	0	0	-	DRY
Landfill R5	28/09/21	12:29	WS09	S	GL	Dry	D	2.97	-	-	1007	R	-0.05	-	0.2	0.1	0.1	3.5	3.5	18.2	18.3	0	0	-	DRY
Landfill R5	28/09/21	12:54	WS10	S	GL	Dry	D	3.05	-	-	1007	R	0.05	-	0.2	0.1	0.1	5.4	5.4	14.8	14.9	0	0	-	DRY
Landfill R6	05/10/21	11:49	BH01	S	GL	3.96		9.98	-	-	993	R	0.16	-	0.1	0.1	0.1	15.1	15.1	9.7	9.7	2	0	-	OK
Landfill R6	05/10/21	12:24	BH02	S	GL	3.08		8.75	-	-	994	R	-0.07	-	0.2	0.1	0.1	3.9	3.9	18.3	18.4	1	0	-	OK
Landfill R6	05/10/21	12:05	BH03	S	GL	3.42		8.11	-	-	993	R	0.09	-	0.2	0.1	0.1	5.1	5.1	16.2	16.2	2	0	-	OK
Landfill R6	05/10/21	11:45	WS01	S	GL	Dry	D	3.15	-	-	992	R	0.09	-	0.2	0.1	0.1	3.2	3.2	18.5	18.6	0	0	-	DRY
Landfill R6	05/10/21	12:37	WS02	S	GL	3.47		3.69	-	-	994	R	0.09	-	0.1	0.1	0.1	6.1	5.9	15.4	15.4	0	0	-	OK
Landfill R6	05/10/21	12:42	WS03	S	GL	Dry	D	2.65	-	-	994	R	0.11	-	0.2	0.1	0.1	10.4	10.4	10.5	10.6	0	0	-	DRY
Landfill R6	05/10/21	12:28	WS04	S	GL	Dry	D	3.00	-	-	994	R	0.05	-	0.2	0.1	0.1	4.3	4.3	15.9	15.9	0	0	-	DRY
Landfill R6	05/10/21	11:55	WS05	S	GL	Dry	D*	3.10	-	-	993	R	0.07	-	0.2	0.1	0.1	4.6	1.7	17.5	19.1	0	0	-	OK
Landfill R6	05/10/21	12:00	WS06	S	GL	1.89		2.10	-	-	993	R	-0.05	-	0.1	0.1	0.1	7.5	7.4	13.8	13.8	0	0	-	OK
Landfill R6	05/10/21	12:09	WS07	S	GL	Dry	D*	2.54	-	-	993	R	0.07	-	0.2	0.1	0.1	1.8	1.8	19.2	19.4	0	0	-	OK
Landfill R6	05/10/21	12:19	WS08	S	GL	Dry	D	4.83	-	-	994	R	0.05	-	0.2	0.1	0.1	5.7	5.7	15.8	15.8	0	0	-	DRY
Landfill R6	05/10/21	12:14	WS09	S	GL	Dry	D	2.97	-	-	994	R	0.14	-	0.2	0.1	0.1	3.9	3.9	18.0	18.0	0	0	-	DRY
Landfill R6	05/10/21	12:32	WS10	S	GL	Dry	D	3.05	-	-	994	R	0.02	-	0.2	0.1	0.1	1.0	1.0	19.4	20.3	0	0	-	DRY
Wider Site R1	12/09/22	13:52	BH201	S	GL	4.18		5.00	-	-	1003	F	-0.07	-	0.2	0.1	0.1	0.8	0.8	20.1	20.1	1	1	-	
Wider Site R1	12/09/22	14:12	BH202	S	GL	3.21		5.24	-	-	1004	F	-0.12	-	0.1	0.1	0.1	0.7	0.7	20.3	20.4	2	0	-	
Wider Site R1	12/09/22	15:50	BH203	S	GL	3.53		6.00	-	-	1004	F	0.05	-	0.1	0.1	0.1	0.9	0.9	20.1	20.1	2	0	-	
Wider Site R1	12/09/22	16:20	BH204	S	GL	2.63		5.13	-	-	1003	F	0.11	-	0.1	0.1	0.1	0.8	0.8	20.4	20.6	1	0	-	
Wider Site R1	12/09/22	15:58	BH205	S	GL	1.15		4.12	-	-	1004	F	-0.07	-	0.1	0.1	0.1	0.6	0.6	20.6	20.6	3	0	-	
Wider Site R1	13/09/22	13:07	WS201	S	GL	Dry	D	1.80	-	-	1005	F	5.79	-	0.1	0.1	0.1	2.1	0.7	19.7	19.9	0	1	-	
Wider Site R1	13/09/22	13:22	WS202	S	GL	1.57		2.98	-	-	1005	F	0.09	-	0.1	0.1	0.1	1.1	1.1	19.8	19.8	1	0	-	
Wider Site R1	13/09/22	14:30	WS203	S	GL	Dry	D	1.97	-	-	1004	F	8.93	-	0.3	0.1	0.1	0.7	0.7	19.7	20.4	1	0	-	
Wider Site R1	13/09/22	14:15	WS205	S	GL	1.42		2.95	-	-	1005	F	0.00	-	0.1	0.1	0.1	3.6	3.1	18.1	18.1	1	0	-	
Wider Site R1	13/09/22	15:00	WS206	S	GL	2.14		4.20	-	-	1005	F	0.00	-	0.3	0.1	0.1	1.7	1.7	19.5	19.5	1	0	-	
Wider Site R1	15/09/22	10:11	WS207	S	GL	1.84		2.12	-	-	1007	R	0.07	-	-0.1	0.1	0.1	0.4	0.4	20.8	20.8	0	0	-	
Wider Site R1	15/09/22	10:28	WS208	S	GL	0.56		2.20	-	-	1007	R	0.16	-	3.2	0.1	0.1	0.7	0.7	20.6	20.6	13	0	-	
Wider Site R1	13/09/22	15:36	WS209	S	GL	1.62		3.29	-	-	1005	F	0.05	-	0.3	0.1	0.1	2.0	2.0	19.7	19.7	1	0	-	
Wider Site R1	13/09/22	15:55	WS210	S	GL	0.75		4.58	-	-	1005	F	-1.04	-	-4.4	0.1	0.1	0.4	0.3	20.8	21.0	7	0	-	
Wider Site R1	13/09/22	12:47	WS211	S	GL	1.01		5.01	-	-	1005	F	-0.02	-	0.0	0.1	0.1	2.5	2.5	19.0	19.0	1	1	-	
Wider Site R1	13/09/22	13:53	WS213	S	GL	Dry	D	3.60	-	-	1005	F	0.04	-	0.2	0.1	0.1	0.9	0.7	20.5	20.5	1	0	-	
Wider Site R1	13/09/22	15:18	WS214	S	GL	Dry	D	0.97	-	-	1004	F	0.07	-	0.3	0.1	0.1	1.1	1.1	20.4	20.4	1	0	-	
Wider Site R1	15/09/22	10:40	WS215	S	GL	0.90		2.53	-	-	1007	R	0.02	-	0.2	0.1	0.1	0.2	0.2	20.8	20.8	0	0	-	
Wider Site R1	12/09/22	12:51	WS216	S	GL	Dry	D*	4.05	-	-	1004	F	-0.07	-	0.1	0.1	0.1	1.9	1.9	19.7	19.7	0	0	-	
Wider Site R1	12/09/22	13:25	WS217	S	GL	Dry	D	2.02	-	-	1003	F	0.09	-	0.2	0.1	0.1	1.3	1.3	19.2	19.3	1	1	-	
Wider Site R1	15/09/22	11:40	WS218	S	GL	Dry	D	2.07	-	-	1007	R	-0.05	-	0.2	0.1	0.1	0.8	0.8	20.7	20.7	0	0	-	
Wider Site R1	15/09/22	11:25	WS219	S	GL	Dry	D	4.93	-	-	1007	R	0.04	-	0.2	0.1	0.1	1.5	1.5	20.1	20.1	0	0	-	
Wider Site R1	15/09/22	10:57	WS220	S	GL	2.77		3.00	-	-	1007	R	0.04	-	0.2	0.1	0.1	0.6	0.6	20.7	20.7	0	0	-	
Wider Site R1	12/09/22	13:08	WS221	S	GL	Dry	D	1.99	-	-	1003	F	0.00	-	0.3	0.1	0.1	1.0	0.9	19.9	19.9	0	1	-	
Wider Site R1	12/09/22	13:34	WS222	S	GL	Dry	D	2.43	-	-	1003	F	-0.05	-	0.2	0.1	0.1	0.9	0.9	19.9	19.9	1	1	-	
Wider Site R1	15/09/22	11:33	WS223	S	GL	Dry	D	2.97	-	-	1007	R	0.02	-	0.2	0.1	0.1	0.5	0.5	20.9	20.9	0	0	-	
Wider Site R1	15/09/22	12:36	WS224	S	GL	Dry	D	1.33	-	-	1007	R	0.04	-	0.2	0.1	0.1	1.0	1.0	20.3	20.3	0	0	-	
Wider Site R1	12/09/22	13:15	WS225	S	GL	Dry	D	1.98	-	-	1003	F	-0.14	-	0.4	0.1	0.1	0.9	0.9	19.4	19.6	1	1	-	
Wider Site R1	12/09/22	13:45	WS226	S	GL	Dry	D	1.12	-	-	1003	F	0.00	-	0.2	0.1	0.1	0.4	0.4	20.2	20.3	1	1	-	
Wider Site R1	12/09/22	13:40	WS227	S	GL	Dry	D	2.73	-	-	1003	F	-0.02	-	0.2	0.1	0.1	1.0	1.0	20.0	20.0	1	1	-	
Wider Site R1	12/09/22	15:40	WS228	S	GL	Dry	D	0.97	-	-	1003	F	0.07	-	0.2	0.1	0.1	0.4	0.4	20.8	20.8	1	0	-	
Wider Site R1	12/09/22	15:35	WS229	S	GL	Dry	D	1.95	-	-	1003	F	0.05	-	0.1	0.1	0.1	0.5	0.5	20.8	20.9	1	0	-	
Wider Site R1	12/09/22	14:06	WS230	S	GL	Dry	D	1.09	-	-	1003	F	0.07	-	0.2	0.1	0.1	0.6	0.6	20.5	20.5	1	0	-	
Wider Site R1	12/09/22	14:19	WS231	S	GL	4.49		5.07	-	-	1004	F	0.04	-	0.2	0.1	0.1	0.8	0.8	20.4	20.4	2	0	-	
Wider Site R1	15/09/22	11:09	WS232	S	GL	1.46		3.42	-	-	1007	R	0.02	-	0.2	0.1	0.1	0.4	0.4	20.8	20.8	0	0	-	
Wider Site R1	15/09/22	12:46	WS234	S	GL	1.25		1.62	-	-	1007	R	0.05	-	0.2	0.1	0.1	0.3	0.1	21.0	21.3	0	0	-	
Wider Site R1	22/09/22	10:53	WS235	S	GL	1.36		4.91	-	-	1014	F	0.02	-	0.3	0.1	0.1	1.9	1.7	19.1	19.2	0	0	-	
Wider Site R1	22/09/22	10:35	WS236	S	GL	Dry	D	1.95	-	-	1014	F	0.04	-	0.3	0.1	0.1	2.2	2.2	19.6	19.6	0	0	-	
Wider Site R1	12/09/22	15:26	WS237	S	GL	Dry	D	1.01	-	-	1003	F	0.05	-	0.3	0.1	0.1	0.2	0.2	21.0	21.0	1	0	-	
Wider Site R1	12/09/22	14:33	WS238	S	GL	3.84		5.06	-	-	1003	F	0.02	-	0.2	0.1	0.1	1.3	0.9	19.8	20.1	2	0	-	
Wider Site R1	15/09/22	11:57	WS239	S	GL	1.38		2.23	-	-	1007	R	0.05	-	0.2	0.1	0.1	0.8	0.8	20.7	20.7	0	0	-	
Wider Site R1	15/09/22	12:10	WS240	S	GL	Dry	D	1.10	-	-	1007	R	-0.02	-	0.2	0.1	0.1	1.2	1.2	20.6	20.6	0	0	-	
Wider Site R1	15/09/22	12:22	WS240	S	GL	1.36		2.20	-	-	1007	R	0.07	-	0.2	0.1	0.1	1.9	1.9	19.6	19.6	0	0	-	
Wider Site R1	15/09/22	13:19	WS241	S	GL	1.59		1																	

Monitoring round			Well Details			Water/NAPL Monitoring (m below datum)					Pressure and flow (use < for below LoD)					Gas Concentrations (use < for below LoD)							Local conditions		
Round Reference	Date	Time	Well ID	Single or dual gas tap (S/D)	Datum Type (Casing / GL)	Depth to water	"D" denotes dry hole	Depth to Base of Hole	Depth to LNAPL	Depth to DNAPL	Atm. pressure (hPa)	Atm. pressure falling (F) / rising (R)/ steady (S)	Relative BH pressure (hPa)	Initial Gas Flow (L/hr)	Steady Gas Flow (L/hr)	CH <sub>4</sub> (%v/v) - (Initial)	CH <sub>4</sub> (%v/v) - (Steady)	CO <sub>2</sub> (%v/v) - (Initial)	CO <sub>2</sub> (%v/v) - (Steady)	O <sub>2</sub> (%v/v) - (Initial)	O <sub>2</sub> (%v/v) - (Steady)	CO (ppm)	H <sub>2</sub> S (ppm)	VOC (as ppm using PID)	Notes on condition of borehole (including any)
Wider Site R1	12/09/22	16:12	WS246	S	GL	1.44		4.55	-	-	1004	F	0.12	-	0.2	0.1	0.1	0.7	0.7	20.5	20.5	2	0	-	
Wider Site R1	12/09/22	16:26	WS247	S	GL	Dry	D*	0.89	-	-	1003	F	0.16	-	0.2	0.1	0.1	0.5	0.5	20.2	20.2	1	0	-	
Wider Site R1	15/09/22	15:40	WS248	S	GL	Dry	D	2.02	-	-	1007	R	0.12	-	0.2	0.1	0.1	0.7	0.7	20.8	20.8	0	0	-	
Wider Site R1	15/09/22	13:51	WS249	S	GL	Dry	D	0.97	-	-	1007	R	0.14	-	0.2	0.1	0.1	0.6	0.6	20.9	20.9	0	0	-	
Wider Site R1	15/09/22	14:20	WS250	S	GL	Dry	D	0.84	-	-	1007	R	0.04	-	0.2	0.1	0.1	0.5	0.5	21.2	21.2	0	0	-	
Wider Site R1	15/09/22	13:36	WS251	S	GL	0.90		2.95	-	-	1007	R	0.11	-	0.2	0.1	0.1	0.2	0.2	21.2	21.2	0	0	-	
Wider Site R1	15/09/22	14:07	WS252	S	GL	Dry	D	5.05	-	-	1007	R	0.05	-	-4.5	0.1	0.1	0.1	0.1	21.2	21.2	1	0	-	
Wider Site R2	26/09/22	14:37	BH201	S	GL	3.69		5.90	-	-	996	F	0.00	-	0.3	0.1	0.1	1.1	1.1	20.9	20.9	0	0	-	
Wider Site R2	26/09/22	13:50	BH202	S	GL	3.95		5.74	-	-	996	F	-0.07	-	0.3	0.1	0.1	0.7	0.7	21.0	21.0	0	0	-	
Wider Site R2	27/09/22	13:01	BH203	S	GL	Dry	D*	5.94	-	-	995	F	0.07	-	0.3	0.1	0.1	0.7	0.7	21.2	21.3	0	0	-	
Wider Site R2	27/09/22	12:36	BH204	S	GL	3.43		5.99	-	-	996	F	0.04	-	0.3	0.1	0.1	1.0	1.0	21.0	21.0	0	0	-	
Wider Site R2	27/09/22	12:48	BH205	S	GL	-		6.03	-	-	996	F	0.02	-	0.2	0.1	0.1	0.2	0.2	21.2	21.4	0	0	-	
Wider Site R2	26/09/22	11:07	WS201	S	GL	Dry	D	1.86	-	-	995	F	-0.07	-	0.3	0.1	0.1	1.5	1.4	19.7	19.7	0	0	-	
Wider Site R2	26/09/22	11:18	WS202	S	GL	Dry	D	1.98	-	-	996	F	-0.05	-	0.3	0.1	0.1	1.3	1.3	20.4	20.4	0	0	-	
Wider Site R2	26/09/22	11:42	WS203	S	GL	Dry	D	1.98	-	-	995	F	0.09	-	0.3	0.1	0.1	0.8	0.8	20.8	20.8	0	0	-	
Wider Site R2	26/09/22	12:09	WS205	S	GL	Dry	D	2.92	-	-	996	F	0.00	-	0.3	0.1	0.1	3.4	3.3	18.7	18.7	0	0	-	
Wider Site R2	26/09/22	11:34	WS213	S	GL	Dry	D	3.60	-	-	996	F	0.02	-	0.3	0.1	0.1	0.6	0.6	20.9	20.9	0	0	-	
Wider Site R2	26/09/22	13:24	WS214	S	GL	Dry	D	0.98	-	-	996	F	0.05	-	0.3	0.1	0.1	0.4	0.4	21.7	21.7	0	0	-	
Wider Site R2	26/09/22	13:07	WS219	S	GL	4.34		4.96	-	-	996	F	0.00	-	0.3	0.1	0.1	1.5	1.5	20.6	20.6	0	0	-	
Wider Site R2	26/09/22	15:19	WS221	S	GL	Dry	D	1.98	-	-	997	F	0.00	-	0.3	0.1	0.1	2.1	2.1	20.9	20.9	0	0	-	
Wider Site R2	26/09/22	14:12	WS222	S	GL	Dry	D	1.98	-	-	996	F	0.09	-	0.3	0.1	0.1	1.2	1.1	20.8	20.8	0	0	-	
Wider Site R2	27/09/22	11:42	WS224	S	GL	Dry	D*	1.36	-	-	996	F	-0.02	-	0.3	0.1	0.1	0.8	0.2	20.9	21.4	0	0	-	
Wider Site R2	26/09/22	15:14	WS225	S	GL	Dry	D	1.98	-	-	997	F	0.04	-	0.3	0.1	0.1	0.9	0.9	21.0	21.3	0	0	-	
Wider Site R2	26/09/22	14:55	WS226	S	GL	Dry	D	1.11	-	-	997	F	0.12	-	0.3	0.1	0.1	0.6	0.6	21.3	21.3	0	0	-	
Wider Site R2	27/09/22	13:08	WS228	S	GL	Dry	D	0.97	-	-	995	F	0.05	-	0.3	0.1	0.1	0.8	0.8	21.5	21.5	0	0	-	
Wider Site R2	27/09/22	13:14	WS229	S	GL	Dry	D	1.93	-	-	995	F	0.12	-	0.3	0.1	0.1	0.9	0.9	21.3	21.4	0	0	-	
Wider Site R2	27/09/22	14:27	WS231	S	GL	Dry	D	4.50	-	-	994	F	0.07	-	0.3	0.1	0.1	2.5	2.5	20.0	20.0	0	0	-	
Wider Site R2	26/09/22	13:42	WS232	S	GL	1.47		3.95	-	-	996	F	-0.07	-	0.3	0.1	0.1	0.8	0.8	21.2	21.2	0	0	-	
Wider Site R2	27/09/22	11:50	WS234	S	GL	1.22		1.60	-	-	996	F	0.07	-	0.3	0.1	0.1	0.1	0.1	21.6	21.6	0	0	-	
Wider Site R2	26/09/22	15:46	WS235	S	GL	1.36		4.93	-	-	997	F	0.04	-	0.3	0.1	0.1	1.7	1.7	19.9	19.9	0	0	-	
Wider Site R2	26/09/22	15:39	WS236	S	GL	Dry	D	1.93	-	-	997	F	0.07	-	0.3	0.1	0.1	1.1	1.1	21.0	21.0	0	0	-	
Wider Site R2	27/09/22	13:29	WS237	S	GL	Dry	D	0.93	-	-	995	F	0.04	-	0.3	0.1	0.1	0.5	0.5	21.7	21.7	0	0	-	
Wider Site R2	27/09/22	14:15	WS238	S	GL	3.95		5.93	-	-	995	F	0.05	-	0.3	0.1	0.1	2.0	2.0	20.2	20.2	0	0	-	
Wider Site R2	27/09/22	12:04	WS239	S	GL	1.39		2.21	-	-	996	F	0.00	-	0.3	0.1	0.1	0.8	0.8	21.2	21.2	0	0	-	
Wider Site R2	27/09/22	11:57	WS240	S	GL	Dry	D	1.07	-	-	996	F	0.11	-	0.3	0.1	0.1	1.3	1.3	21.0	21.0	0	0	-	
Wider Site R2	27/09/22	11:04	WS241	S	GL	1.56		1.93	-	-	996	F	-0.04	-	0.3	0.1	0.1	1.3	1.3	20.3	20.3	0	0	-	
Wider Site R2	26/09/22	15:53	WS242	S	GL	0.79		3.56	-	-	997	F	0.04	-	0.3	0.1	0.1	1.2	1.2	20.7	20.7	0	0	-	
Wider Site R2	27/09/22	13:55	WS243	S	GL	Dry	D	0.97	-	-	995	F	0.09	-	0.3	0.1	0.1	1.7	0.9	20.9	21.1	0	0	-	
Wider Site R2	27/09/22	12:19	WS244	S	GL	Dry	D	0.84	-	-	996	F	0.05	-	0.3	0.1	0.1	0.6	0.6	21.3	21.3	0	0	-	
Wider Site R2	27/09/22	12:56	WS245	S	GL	1.15		2.47	-	-	996	F	-0.02	-	-0.2	0.1	0.1	0.1	0.1	21.5	21.5	0	0	-	
Wider Site R2	27/09/22	14:07	WS246	S	GL	1.48		4.43	-	-	995	F	0.09	-	0.3	0.1	0.1	1.1	0.7	20.5	21.3	0	0	-	
Wider Site R2	27/09/22	12:24	WS247	S	GL	Dry	D	0.87	-	-	996	F	0.05	-	0.3	0.1	0.1	1.2	1.2	20.6	20.6	0	0	-	
Wider Site R2	27/09/22	11:21	WS248	S	GL	Dry	D*	1.59	-	-	996	F	0.05	-	0.3	0.1	0.1	0.6	0.6	21.0	21.1	0	0	-	
Wider Site R2	27/09/22	10:41	WS249	S	GL	Dry	D	0.97	-	-	996	F	0.02	-	0.2	0.1	0.1	0.7	0.7	20.7	20.8	0	0	-	
Wider Site R2	27/09/22	10:48	WS250	S	GL	Dry	D	0.84	-	-	996	F	0.04	-	0.3	0.1	0.1	0.6	0.6	20.9	20.9	0	0	-	
Wider Site R3	10/10/22	16:35	BH201	S	GL	4.29		5.00	-	-	1014	R	0.02	-	0.2	0.1	0.1	0.8	0.8	20.1	20.1	0	0	-	
Wider Site R3	10/10/22	12:12	BH202	S	GL	3.28		5.23	-	-	1014	R	0.05	-	0.3	0.1	0.1	0.6	0.6	21.5	21.7	0	0	-	
Wider Site R3	10/10/22	15:19	BH203	S	GL	3.54		6.00	-	-	1014	R	0.12	-	0.2	0.1	0.1	0.4	0.4	20.5	20.5	1	0	-	
Wider Site R3	10/10/22	14:49	BH204	S	GL	2.63		5.10	-	-	1016	R	-0.09	-	0.2	0.1	0.1	0.8	0.8	21.4	21.6	0	0	-	
Wider Site R3	10/10/22	15:26	BH205	S	GL	1.15		4.12	-	-	1014	R	0.00	-	0.2	0.1	0.1	0.3	0.3	21.0	21.0	0	0	-	
Wider Site R3	10/10/22	09:37	WS201	S	GL	Dry	D	1.86	-	-	1012	R	0.14	-	0.2	0.1	0.1	0.9	0.8	20.0	20.5	0	0	-	
Wider Site R3	10/10/22	09:44	WS202	S	GL	Dry	D	1.97	-	-	1012	R	0.04	-	0.0	0.1	0.1	0.7	0.7	20.4	20.4	0	1	-	
Wider Site R3	10/10/22	10:46	WS203	S	GL	Dry	D	1.98	-	-	1013	R	-0.04	-	0.3	0.1	0.1	0.7	0.7	20.8	21.1	0	0	-	
Wider Site R3	10/10/22	10:58	WS204	S	GL	Dry	D	1.00	-	-	1013	R	-0.02	-	0.1	0.1	0.1	0.3	0.3	20.9	21.2	0	0	-	
Wider Site R3	10/10/22	10:38	WS205	S	GL	1.46		2.96	-	-	1013	R	0.05	-	0.2	0.1	0.1	2.3	2.3	19.8	19.9	0	0	-	
Wider Site R3	10/10/22	10:29	WS206	S	GL	2.18		4.30	-	-	1013	R	-0.02	-	0.1	0.1	0.1	1.5	1.5	20.1	20.2	0	0	-	
Wider Site R3	10/10/22	11:08	WS207	S	GL	0.84		2.15	-	-	1013	R	-0.05	-	-0.1	0.1	0.1	0.8	0.8	20.9	21.0	0	0	-	
Wider Site R3	10/10/22	11:15	WS208	S	GL	0.59		2.22	-	-	1014	R	2.91	-	-4.7	0.1	0.1	1.1	1.1	20.6	20.6	4	0	-	
Wider Site R3	10/10/22	10:22	WS209	S	GL	1.66		2.99	-	-	1013	R	0.02	-	0.3	0.1	0.1	2.1	2.0	20.0	20.0	0	0	-	
Wider Site R3	10/10/22	11:28	WS210	S	GL	0.77		2.60	-	-	1014	R	0.12	-	-3.0	0.1	0.1	1.1	1.1	20.6	20.7	2	0	-	
Wider Site R3	10/10/22	09:30	WS211	S	GL	3.15		3.52	-	-	1012	R	0.23	-</											

Monitoring round			Well Details			Water/NAPL Monitoring (m below datum)					Pressure and flow (use < for below LoD)					Gas Concentrations (use < for below LoD)							Local conditions		
Round Reference	Date	Time	Well ID	Single or dual gas tap (S/D)	Datum Type (Casing / GL)	Depth to water	"D" denotes dry hole	Depth to Base of Hole	Depth to LNAPL	Depth to DNAPL	Atm. pressure (hPa)	Atm. pressure falling (F) / rising (R) / steady (S)	Relative BH pressure (hPa)	Initial Gas Flow (L/hr)	Steady Gas Flow (L/hr)	CH <sub>4</sub> (%v/v) - (Initial)	CH <sub>4</sub> (%v/v) - (Steady)	CO <sub>2</sub> (%v/v) - (Initial)	CO <sub>2</sub> (%v/v) - (Steady)	O <sub>2</sub> (%v/v) - (Initial)	O <sub>2</sub> (%v/v) - (Steady)	CO (ppm)	H <sub>2</sub> S (ppm)	VOC (as ppm using PID)	Notes on condition of borehole (including any)
Wider Site R3	10/10/22	17:07	WS217	S	GL	Dry	D	2.02	-	-	1014	R	0.00	-	0.2	0.1	0.1	1.3	1.2	20.1	19.8	0	0	-	
Wider Site R3	10/10/22	10:14	WS218	S	GL	Dry	D	1.77	-	-	1013	R	0.04	-	0.1	0.1	0.1	1.0	1.0	20.7	20.9	0	0	-	
Wider Site R3	10/10/22	11:50	WS219	S	GL	4.07		4.95	-	-	1014	R	0.00	-	0.3	0.1	0.1	1.3	1.3	20.6	20.6	0	0	-	
Wider Site R3	10/10/22	11:44	WS220	S	GL	1.74		2.98	-	-	1014	R	0.05	-	0.1	0.1	0.1	0.6	0.6	20.9	21.1	0	0	-	
Wider Site R3	10/10/22	17:26	WS221	S	GL	Dry	D	1.99	-	-	1014	R	0.04	-	0.3	0.1	0.1	1.0	0.9	19.9	19.9	0	0	-	
Wider Site R3	10/10/22	16:51	WS222	S	GL	Dry	D	2.44	-	-	1014	R	0.04	-	0.2	0.1	0.1	1.0	1.0	20.5	20.5	0	0	-	
Wider Site R3	10/10/22	11:56	WS223	S	GL	Dry	D	1.97	-	-	1014	R	-0.05	-	0.3	0.1	0.1	0.6	0.5	21.3	21.5	0	0	-	
Wider Site R3	10/10/22	12:53	WS224	S	GL	Dry	D	1.36	-	-	1015	R	-0.05	-	0.1	0.1	0.1	0.6	0.5	21.6	21.8	0	0	-	
Wider Site R3	10/10/22	17:24	WS225	S	GL	Dry	D	1.98	-	-	1014	R	-0.02	-	0.3	0.1	0.1	1.0	1.0	20.5	20.5	0	0	-	
Wider Site R3	10/10/22	17:00	WS226	S	GL	Dry	D	1.12	-	-	1014	R	0.04	-	0.2	0.1	0.1	0.4	0.4	20.5	20.5	0	0	-	
Wider Site R3	10/10/22	16:42	WS227	S	GL	Dry	D	2.72	-	-	1014	R	0.02	-	0.2	0.1	0.1	1.0	0.9	20.3	20.3	0	0	-	
Wider Site R3	10/10/22	15:12	WS228	S	GL	Dry	D	0.99	-	-	1014	R	-0.07	-	0.2	0.1	0.1	0.4	0.4	21.0	21.1	0	0	-	
Wider Site R3	10/10/22	15:08	WS229	S	GL	Dry	D	1.95	-	-	1014	R	0.05	-	0.2	0.1	0.1	0.4	0.3	20.5	20.9	0	0	-	
Wider Site R3	10/10/22	12:20	WS230	S	GL	Dry	D	1.10	-	-	1014	R	0.07	-	0.1	0.1	0.1	0.6	0.6	21.5	21.6	0	0	-	
Wider Site R3	10/10/22	16:27	WS231	S	GL	4.50		5.07	-	-	1014	R	0.02	-	0.3	0.1	0.1	1.9	2.0	20.1	20.1	0	0	-	
Wider Site R3	10/10/22	12:05	WS232	S	GL	1.96		2.97	-	-	1014	R	0.18	-	0.2	0.1	0.1	0.6	0.6	21.4	21.6	0	0	-	
Wider Site R3	10/10/22	13:00	WS233	S	GL	1.35		2.25	-	-	1015	R	0.16	-	0.2	0.1	0.1	1.8	1.7	20.5	20.5	0	0	-	
Wider Site R3	10/10/22	13:08	WS234	S	GL	1.25		1.64	-	-	1015	R	0.02	-	0.2	0.1	0.1	0.3	0.3	21.2	21.5	0	0	-	
Wider Site R3	10/10/22	15:46	WS235	S	GL	1.96		4.91	-	-	1014	R	0.16	-	0.2	0.1	0.1	1.2	1.2	20.7	20.6	0	0	-	
Wider Site R3	10/10/22	15:40	WS236	S	GL	1.41		1.96	-	-	1014	R	0.19	-	0.3	0.1	0.1	1.0	1.0	20.3	20.2	0	0	-	
Wider Site R3	10/10/22	15:02	WS237	S	GL	Dry	D	1.01	-	-	1014	R	0.02	-	0.2	0.1	0.1	0.2	0.4	21.2	21.4	0	0	-	
Wider Site R3	10/10/22	16:20	WS238	S	GL	3.90		5.06	-	-	1014	R	0.02	-	0.3	0.1	0.1	1.3	0.9	21.0	21.0	0	0	-	
Wider Site R3	10/10/22	13:23	WS239	S	GL	1.39		2.22	-	-	1015	R	-0.04	-	0.2	0.1	0.1	0.6	0.6	21.2	21.2	0	0	-	
Wider Site R3	10/10/22	13:17	WS240	S	GL	Dry	D	1.10	-	-	1015	R	-0.04	-	0.1	0.1	0.1	1.1	1.0	21.0	21.2	0	0	-	
Wider Site R3	10/10/22	14:33	WS241	S	GL	1.57		1.94	-	-	1016	R	-0.04	-	0.1	0.1	0.1	1.1	1.0	21.1	21.3	0	0	-	
Wider Site R3	10/10/22	15:50	WS242	S	GL	0.72		3.61	-	-	1014	R	0.04	-	0.2	0.1	0.1	1.2	1.2	19.0	18.8	1	0	-	
Wider Site R3	10/10/22	14:56	WS243	S	GL	Dry	D	1.00	-	-	1014	R	0.07	-	0.3	0.1	0.1	0.4	0.4	20.0	20.5	0	0	-	
Wider Site R3	10/10/22	14:37	WS244	S	GL	Dry	D	0.88	-	-	1016	R	-0.07	-	0.3	0.1	0.1	0.5	0.5	21.8	21.8	0	0	-	
Wider Site R3	10/10/22	16:04	WS245	S	GL	1.10		2.56	-	-	1014	R	0.02	-	-0.2	0.1	0.1	0.1	0.3	21.0	21.3	1	0	-	
Wider Site R3	10/10/22	16:14	WS246	S	GL	Dry	D	4.55	-	-	1014	R	0.05	-	0.2	0.1	0.1	0.4	0.8	20.5	21.0	0	0	-	
Wider Site R3	10/10/22	14:43	WS247	S	GL	Dry	D	0.92	-	-	1016	R	0.00	-	0.3	0.1	0.1	1.1	1.1	21.2	21.2	0	0	-	
Wider Site R3	10/10/22	13:32	WS248	S	GL	Dry	D*	1.60	-	-	1015	R	-0.07	-	0.1	0.1	0.1	0.5	0.5	21.2	21.4	0	0	-	
Wider Site R3	10/10/22	13:50	WS249	S	GL	0.07		0.97	-	-	1016	R	0.04	-	0.0	0.1	0.1	0.6	0.6	21.3	21.4	0	0	-	
Wider Site R3	10/10/22	13:41	WS250	S	GL	Dry	D	0.85	-	-	1016	R	0.02	-	0.3	0.1	0.1	0.5	0.5	21.3	21.3	0	0	-	
Wider Site R3	10/10/22	14:09	WS251	S	GL	0.93		1.96	-	-	1016	R	-0.28	-	-0.5	0.1	0.1	1.0	0.9	20.3	20.7	1	0	-	
Wider Site R3	10/10/22	13:58	WS252	S	GL	1.00		5.05	-	-	1014	R	0.12	-	0.2	0.1	0.1	0.8	1.0	20.5	20.6	1	0	-	
Wider Site R4	19/10/22	16:13	BH201	S	GL	4.29		5.00	-	-	1006	F	0.09	-	0.2	0.1	0.1	1.0	0.9	21.5	21.5	0	0	-	OK
Wider Site R4	19/10/22	14:02	BH202	S	GL	3.38		5.24	-	-	1009	F	0.14	-	0.3	0.1	0.1	0.7	0.7	21.1	21.1	0	0	-	OK
Wider Site R4	19/10/22	12:39	BH203	S	GL	3.54		6.00	-	-	1010	F	0.12	-	0.2	0.1	0.1	0.4	0.4	21.1	21.1	0	0	-	OK
Wider Site R4	19/10/22	13:42	BH204	S	GL	2.60		5.10	-	-	1009	F	0.14	-	0.1	0.1	0.1	0.8	0.8	21.1	21.1	0	0	-	OK
Wider Site R4	19/10/22	12:46	BH205	S	GL	1.16		4.12	-	-	1010	F	0.00	-	0.2	0.1	0.1	0.3	0.3	21.3	21.4	0	0	-	OK
Wider Site R4	19/10/22	16:51	WS201	S	GL	Dry	D	1.86	-	-	1006	F	0.19	-	0.2	0.1	0.1	0.6	0.4	20.7	21.9	0	0	-	DRY
Wider Site R4	19/10/22	17:02	WS202	S	GL	1.72		1.97	-	-	1007	F	-0.02	-	0.1	0.1	0.1	0.2	0.2	21.9	21.9	0	0	-	OK
Wider Site R4	19/10/22	15:25	WS203	S	GL	Dry	D	1.99	-	-	1007	F	0.00	-	0.2	0.1	0.1	0.7	0.7	21.4	21.5	0	0	-	DRY
Wider Site R4	19/10/22	15:18	WS204	S	GL	Dry	D	1.00	-	-	1008	F	-0.21	-	0.2	0.1	0.1	0.6	0.4	20.8	20.9	0	0	-	DRY
Wider Site R4	19/10/22	15:33	WS205	S	GL	1.47		2.96	-	-	1007	F	-0.02	-	0.2	0.1	0.1	2.3	2.2	20.0	20.0	0	0	-	OK
Wider Site R4	19/10/22	15:11	WS206	S	GL	2.21		4.30	-	-	1008	F	-0.11	-	0.3	0.1	0.1	1.5	1.5	20.4	20.5	0	0	-	OK
Wider Site R4	19/10/22	15:02	WS207	S	GL	0.81		2.15	-	-	1008	F	0.05	-	-1.7	0.1	0.1	1.9	1.9	20.6	20.7	1	0	-	OK
Wider Site R4	19/10/22	14:52	WS208	S	GL	0.57		2.22	-	-	1008	F	2.98	-	-5.8	0.1	0.1	2.3	2.3	20.0	20.2	3	0	-	OK
Wider Site R4	19/10/22	15:05	WS209	S	GL	1.67		2.99	-	-	1008	F	0.04	-	0.2	0.1	0.1	1.8	1.8	20.5	20.5	0	0	-	OK
Wider Site R4	19/10/22	14:24	WS210	S	GL	0.76		2.60	-	-	1009	F	-0.07	-	-2.6	0.1	0.1	1.3	1.3	20.5	20.6	2	0	-	OK
Wider Site R4	19/10/22	16:42	WS211	S	GL	3.15		3.52	-	-	1006	F	0.16	-	0.1	0.1	0.1	3.5	3.2	18.8	18.9	0	0	-	OK
Wider Site R4	19/10/22	14:36	WS213	S	GL	Dry	D	3.63	-	-	1006	F	0.09	-	0.3	0.1	0.1	1.1	1.1	21.0	21.0	0	0	-	DRY
Wider Site R4	19/10/22	15:41	WS214	S	GL	Dry	D	0.97	-	-	1007	F	0.12	-	0.2	0.1	0.1	0.9	0.9	21.1	21.5	0	0	-	DRY
Wider Site R4	19/10/22	14:43	WS215	S	GL	0.92		2.53	-	-	1009	F	-0.14	-	0.2	0.1	0.1	0.2	0.2	21.4	21.5	0	0	-	OK
Wider Site R4	19/10/22	17:12	WS216	S	GL	Dry	D*	4.05	-	-	1006	F	0.04	-	0.2	0.1	0.1	1.0	1.0	19.0	18.2	0	0	-	OK
Wider Site R4	19/10/22	16:34	WS217	S	GL	Dry	D	2.02	-	-	1006	F	0.02	-	0.2	0.1	0.1	0.6	0.6	21.8	21.8	0	0	-	DRY
Wider Site R4	19/10/22	15:47	WS218	S	GL	Dry	D	1.76	-	-	1007	F	-0.02	-	0.2	0.1	0.1	0.9	0.9	21.4	21.4	0	0	-	DRY
Wider Site R4	19/10/22	14:32	WS219	S	GL	3.92		4.95	-	-	1008	F	0.05	-	0.2	0.1	0.1	1.3	1.3	20.6	20.6	0	0	-	OK
Wider Site R4	19/10/22	14:37	WS220	S	GL	1.73		2.98	-	-	1009	F	0.00	-	0.2	0.1	0.1	0.6	0.6	21.0	21.2	0	0	-	OK
W																									

Monitoring round			Well Details			Water/NAPL Monitoring (m below datum)					Pressure and flow (use < for below LoD)					Gas Concentrations (use < for below LoD)								Local conditions	
Round Reference	Date	Time	Well ID	Single or dual gas tap (S/D)	Datum Type (Casing / GL)	Depth to water	"D" denotes dry hole	Depth to Base of Hole	Depth to LNAPL	Depth to DNAPL	Atm. pressure (hPa)	Atm. pressure falling (F) / rising (R) / steady (S)	Relative BH pressure (hPa)	Initial Gas Flow (L/hr)	Steady Gas Flow (L/hr)	CH <sub>4</sub> (%v/v) - (Initial)	CH <sub>4</sub> (%v/v) - (Steady)	CO <sub>2</sub> (%v/v) - (Initial)	CO <sub>2</sub> (%v/v) - (Steady)	O <sub>2</sub> (%v/v) - (Initial)	O <sub>2</sub> (%v/v) - (Steady)	CO (ppm)	H <sub>2</sub> S (ppm)	VOC (as ppm using PID)	Notes on condition of borehole (including any)
Wider Site R4	19/10/22	16:08	WS226	S	GL	Dry	D	1.14	-	-	998	F	0.09	-	0.2	0.1	0.1	0.4	0.3	21.8	21.8	0	0	-	DRY
Wider Site R4	19/10/22	16:00	WS227	S	GL	Dry	D	2.72	-	-	1006	F	0.00	-	0.2	0.1	0.1	0.9	0.9	21.6	21.6	0	0	-	DRY
Wider Site R4	19/10/22	12:32	WS228	S	GL	Dry	D	0.99	-	-	1010	F	-0.07	-	0.1	0.1	0.1	0.5	0.5	21.2	21.3	0	0	-	DRY
Wider Site R4	19/10/22	12:28	WS229	S	GL	Dry	D	1.95	-	-	1010	F	-0.12	-	0.2	0.1	0.1	0.6	0.6	21.2	21.4	0	0	-	DRY
Wider Site R4	19/10/22	16:21	WS230	S	GL	Dry	D	1.10	-	-	1007	F	0.04	-	0.2	0.1	0.1	0.6	0.6	21.7	21.7	0	0	-	DRY
Wider Site R4	19/10/22	12:05	WS231	S	GL	4.55		5.07	-	-	1011	F	0.14	-	0.2	0.1	0.1	2.2	2.2	20.1	20.1	0	0	-	OK
Wider Site R4	19/10/22	14:08	WS232	S	GL	1.45		2.97	-	-	1009	F	0.12	-	0.2	0.1	0.1	0.6	0.6	21.1	21.3	0	0	-	OK
Wider Site R4	19/10/22	11:37	WS233	S	GL	1.35		2.25	-	-	1011	F	0.14	-	0.2	0.1	0.1	1.8	1.8	20.3	20.3	0	0	-	OK
Wider Site R4	19/10/22	11:45	WS234	S	GL	1.22		1.64	-	-	1011	F	-0.05	-	0.2	0.1	0.1	0.4	0.4	20.9	21.3	0	0	-	OK
Wider Site R4	19/10/22	12:54	WS235	S	GL	1.41		4.91	-	-	1010	F	0.16	-	0.2	0.1	0.1	1.3	1.3	20.7	20.7	0	0	-	OK
Wider Site R4	19/10/22	13:00	WS236	S	GL	Dry	D	1.96	-	-	1010	F	0.19	-	0.2	0.1	0.1	1.8	1.8	20.2	20.2	0	0	-	DRY
Wider Site R4	19/10/22	12:22	WS237	S	GL	Dry	D	1.01	-	-	1010	F	0.02	-	0.2	0.1	0.1	0.4	0.4	21.3	21.4	0	0	-	DRY
Wider Site R4	19/10/22	12:10	WS238	S	GL	3.97		5.06	-	-	1010	F	0.16	-	0.2	0.1	0.1	2.0	2.0	20.0	20.0	0	0	-	OK
Wider Site R4	19/10/22	11:27	WS239	S	GL	1.37		2.22	-	-	1012	F	0.05	-	0.3	0.1	0.1	0.6	0.6	21.2	21.3	0	0	-	OK
Wider Site R4	19/10/22	11:32	WS240	S	GL	Dry	D	1.10	-	-	1012	F	0.09	-	0.3	0.1	0.1	1.0	1.0	20.9	21.0	0	0	-	DRY
Wider Site R4	19/10/22	10:28	WS241	S	GL	1.54		1.94	-	-	1013	F	0.18	-	0.3	0.1	0.1	1.6	1.6	19.6	19.7	0	0	-	OK
Wider Site R4	19/10/22	13:09	WS242	S	GL	0.72		3.61	-	-	1010	F	0.21	-	-3.8	0.1	0.1	2.3	2.3	18.8	18.8	1	0	-	OK
Wider Site R4	19/10/22	12:16	WS243	S	GL	Dry	D	1.00	-	-	1010	F	0.16	-	0.2	0.1	0.1	0.7	0.6	20.9	21.1	0	0	-	DRY
Wider Site R4	19/10/22	13:58	WS244	S	GL	Dry	D	0.88	-	-	1010	F	0.00	-	0.1	0.1	0.1	0.3	0.3	21.1	21.5	0	0	-	DRY
Wider Site R4	19/10/22	13:25	WS245	S	GL	1.10		2.56	-	-	1010	F	0.16	-	-0.2	0.1	0.1	0.3	0.3	21.3	21.5	1	0	-	OK
Wider Site R4	19/10/22	13:38	WS246	S	GL	1.43		4.55	-	-	1010	F	0.05	-	0.1	0.1	0.1	0.8	0.8	21.0	21.1	0	0	-	OK
Wider Site R4	19/10/22	13:47	WS247	S	GL	Dry	D*	0.92	-	-	1010	F	0.07	-	0.1	0.1	0.1	1.2	1.2	20.5	20.7	0	0	-	OK
Wider Site R4	19/10/22	11:16	WS248	S	GL	Dry	D*	1.60	-	-	1012	F	-0.05	-	0.3	0.1	0.1	0.5	0.5	21.2	21.3	0	0	-	OK
Wider Site R4	19/10/22	11:03	WS249	S	GL	Dry	D	0.95	-	-	1012	F	0.04	-	0.1	0.1	0.1	0.4	0.4	21.2	21.2	0	0	-	DRY
Wider Site R4	19/10/22	11:09	WS250	S	GL	Dry	D	0.86	-	-	1012	F	0.18	-	0.2	0.1	0.1	0.5	0.5	21.2	21.3	0	0	-	DRY
Wider Site R4	19/10/22	10:38	WS251	S	GL	0.84		1.96	-	-	1013	F	-0.16	-	-0.5	0.1	0.1	1.4	1.4	19.2	19.2	1	0	-	OK
Wider Site R4	19/10/22	10:51	WS252	S	GL	0.90		5.05	-	-	1012	F	-0.02	-	-5.2	0.1	0.1	1.0	0.9	20.3	20.6	1	0	-	OK
Wider Site R5	26/10/22	15:43	BH201	S	GL	4.27		5.00	-	-	1004	R	0.11	-	0.3	0.1	0.1	0.8	0.7	20.8	20.8	0	0	-	OK
Wider Site R5	26/10/22	13:35	BH202	S	GL	3.33		5.24	-	-	1003	R	-0.05	-	0.2	0.1	0.1	0.8	0.8	19.9	20.1	0	0	-	OK
Wider Site R5	25/10/22	13:14	BH203	S	GL	3.21		6.00	-	-	1005	R	-0.02	-	0.3	0.1	0.1	0.8	0.8	19.7	19.8	0	0	-	OK
Wider Site R5	25/10/22	13:45	BH204	S	GL	2.48		5.10	-	-	997	R	-0.07	-	0.1	0.1	0.1	0.8	0.8	20.3	20.4	0	0	-	OK
Wider Site R5	25/10/22	13:21	BH205	S	GL	0.73		4.12	-	-	1005	R	0.02	-	-3.6	0.1	0.1	0.7	0.6	20.6	20.9	1	0	-	OK
Wider Site R5	25/10/22	11:36	WS201	S	GL	Dry	D	1.86	-	-	1004	R	0.11	-	0.1	0.1	0.1	1.3	0.7	19.9	20.3	0	0	-	DRY
Wider Site R5	25/10/22	11:42	WS202	S	GL	1.14		1.99	-	-	1005	R	0.12	-	0.2	0.1	0.1	0.6	0.6	20.4	20.5	0	0	-	OK
Wider Site R5	26/10/22	14:42	WS203	S	GL	Dry	D	1.99	-	-	1004	R	0.18	-	0.3	0.1	0.1	0.6	0.6	20.7	20.7	0	0	-	DRY
Wider Site R5	26/10/22	14:34	WS204	S	GL	Dry	D	1.00	-	-	1004	R	-0.02	-	0.2	0.1	0.1	0.2	0.2	21.3	21.4	0	0	-	DRY
Wider Site R5	26/10/22	14:48	WS205	S	GL	1.03		2.96	-	-	1004	R	0.07	-	0.2	0.1	0.1	1.7	1.6	20.1	20.3	0	0	-	OK
Wider Site R5	26/10/22	15:07	WS206	S	GL	1.74		4.30	-	-	1004	R	0.04	-	0.3	0.1	0.1	1.6	1.6	19.0	19.0	0	0	-	OK
Wider Site R5	26/10/22	14:28	WS207	S	GL	0.59		2.15	-	-	1004	R	-0.58	-	-2.3	0.1	0.1	1.5	1.5	20.5	20.5	2	0	-	OK
Wider Site R5	26/10/22	14:23	WS208	S	GL	0.43		2.22	-	-	1004	R	15.96	-	0.6	0.1	0.1	1.7	1.7	20.2	20.3	3	0	-	OK
Wider Site R5	26/10/22	15:02	WS209	S	GL	1.52		2.99	-	-	1004	R	0.05	-	0.2	0.1	0.1	1.6	1.6	19.9	19.9	0	0	-	OK
Wider Site R5	26/10/22	14:15	WS210	S	GL	0.53		2.60	-	-	1004	R	11.62	-	0.2	0.1	0.1	1.3	1.3	20.3	20.4	2	0	-	OK
Wider Site R5	25/10/22	11:27	WS211	S	GL	3.10		3.52	-	-	1004	R	0.23	-	0.2	0.1	0.1	3.3	3.3	18.1	18.1	0	0	-	OK
Wider Site R5	26/10/22	14:54	WS213	S	GL	Dry	D	3.63	-	-	1004	R	0.00	-	0.3	0.1	0.1	0.5	0.5	20.6	20.7	0	0	-	DRY
Wider Site R5	26/10/22	15:14	WS214	S	GL	Dry	D	0.97	-	-	1004	R	0.02	-	0.2	0.1	0.1	0.9	0.9	20.2	20.4	0	0	-	DRY
Wider Site R5	26/10/22	14:09	WS215	S	GL	0.57		2.53	-	-	1004	R	9.63	-	-1.7	0.1	0.1	0.6	0.6	20.7	20.7	1	0	-	OK
Wider Site R5	25/10/22	10:56	WS216	S	GL	Dry	D*	4.05	-	-	1005	R	-0.14	-	0.2	0.1	0.1	1.5	1.5	19.7	19.8	0	0	-	OK
Wider Site R5	25/10/22	11:53	WS217	S	GL	Dry	D	2.02	-	-	1004	R	-0.11	-	0.3	0.1	0.1	1.5	1.4	19.8	19.9	0	0	-	DRY
Wider Site R5	26/10/22	15:19	WS218	S	GL	Dry	D	1.76	-	-	1004	R	-0.07	-	0.2	0.1	0.1	1.0	1.0	20.4	20.6	0	0	-	DRY
Wider Site R5	26/10/22	13:55	WS219	S	GL	3.82		4.95	-	-	1003	R	-0.05	-	0.3	0.1	0.1	1.0	1.0	19.8	19.9	0	0	-	OK
Wider Site R5	26/10/22	13:50	WS220	S	GL	1.42		2.98	-	-	1004	R	0.07	-	0.3	0.1	0.1	0.6	0.6	19.7	19.8	0	0	-	OK
Wider Site R5	25/10/22	11:03	WS221	S	GL	Dry	D	1.99	-	-	1004	R	0.07	-	0.2	0.1	0.1	1.4	1.4	19.8	19.9	0	0	-	DRY
Wider Site R5	26/10/22	15:25	WS222	S	GL	Dry	D	2.44	-	-	1004	R	-0.09	-	0.2	0.1	0.1	0.7	0.7	20.7	20.8	0	0	-	DRY
Wider Site R5	26/10/22	14:01	WS223	S	GL	Dry	D	1.98	-	-	1003	R	0.09	-	0.1	0.1	0.1	0.5	0.5	20.4	20.5	0	0	-	DRY
Wider Site R5	26/10/22	13:22	WS224	S	GL	0.95		1.36	-	-	1003	R	0.07	-	0.1	0.1	0.1	0.3	0.2	19.9	21.0	0	0	-	OK
Wider Site R5	25/10/22	11:09	WS225	S	GL	Dry	D	1.98	-	-	1005	R	0.02	-	0.1	0.1	0.1	1.0	1.0	19.9	20.0	0	0	-	DRY
Wider Site R5	26/10/22	15:38	WS226	S	GL	Dry	D	1.14	-	-	1004	R	0.04	-	0.2	0.1	0.1	0.5	0.5	20.5	20.5	0	0	-	DRY
Wider Site R5	26/10/22	15:30	WS227	S	GL	Dry	D	2.72	-	-	1004	R	0.19	-	0.2	0.1	0.1	0.8	0.8	20.8	20.8	0	0	-	DRY
Wider Site R5	25/10/22	13:06	WS228	S	GL	Dry	D	0.99	-	-	1004	R	0.00	-	0.3	0.1	0.1	0.7	0.7	20.0	20.0	0	0	-	DRY
Wider Site R5	25/10/22	12:57	WS229	S	GL	Dry	D	1.95	-	-	1004	R	0.09	-											

Monitoring round			Well Details			Water/NAPL Monitoring (m below datum)					Pressure and flow (use < for below LoD)					Gas Concentrations (use < for below LoD)								Local conditions	
Round Reference	Date	Time	Well ID	Single or dual gas tap (S/D)	Datum Type (Casing / GL)	Depth to water	"D" denotes dry hole	Depth to Base of Hole	Depth to LNAPL	Depth to DNAPL	Atm. pressure (hPa)	Atm. pressure falling (F) / rising (R)/ steady (S)	Relative BH pressure (hPa)	Initial Gas Flow (L/hr)	Steady Gas Flow (L/hr)	CH <sub>4</sub> (%v/v) - (Initial)	CH <sub>4</sub> (%v/v) - (Steady)	CO <sub>2</sub> (%v/v) - (Initial)	CO <sub>2</sub> (%v/v) - (Steady)	O <sub>2</sub> (%v/v) - (Initial)	O <sub>2</sub> (%v/v) - (Steady)	CO (ppm)	H <sub>2</sub> S (ppm)	VOC (as ppm using PID)	Notes on condition of borehole (including any)
Wider Site R5	25/10/22	12:12	WS235	S	GL	1.23		4.91	-	-	1005	R	0.16	-	0.3	0.1	0.1	1.7	1.7	19.0	19.0	0	0	-	OK
Wider Site R5	25/10/22	12:06	WS236	S	GL	Dry	D	1.96	-	-	1005	R	0.02	-	0.3	0.1	0.1	1.9	1.9	19.2	19.2	0	0	-	DRY
Wider Site R5	25/10/22	12:52	WS237	S	GL	Dry	D	1.01	-	-	1004	R	0.12	-	0.4	0.1	0.1	0.4	0.4	20.4	20.5	0	0	-	DRY
Wider Site R5	25/10/22	12:40	WS238	S	GL	3.90		5.06	-	-	1005	R	-0.14	-	0.2	0.1	0.1	2.2	2.2	19.6	19.7	0	0	-	OK
Wider Site R5	26/10/22	12:55	WS239	S	GL	1.27		2.22	-	-	1003	R	0.02	-	0.3	0.1	0.1	0.7	0.7	19.8	19.9	0	0	-	OK
Wider Site R5	26/10/22	13:00	WS240	S	GL	Dry	D	1.10	-	-	1003	R	0.09	-	0.3	0.1	0.1	1.1	1.1	19.7	19.8	0	0	-	DRY
Wider Site R5	26/10/22	11:59	WS241	S	GL	1.36		1.94	-	-	1002	R	0.16	-	0.2	0.1	0.1	1.2	1.2	19.9	19.9	0	0	-	OK
Wider Site R5	25/10/22	12:17	WS242	S	GL	0.52		3.61	-	-	1005	R	19.09	-	1.0	0.1	0.1	2.4	2.4	18.6	18.8	1	0	-	OK
Wider Site R5	25/10/22	12:46	WS243	S	GL	Dry	D	1.00	-	-	1004	R	-0.02	-	0.3	0.1	0.1	0.6	0.6	20.3	20.3	0	0	-	DRY
Wider Site R5	25/10/22	14:00	WS244	S	GL	Dry	D	0.88	-	-	1005	R	-0.18	-	0.3	0.1	0.1	0.5	0.5	19.7	19.8	0	0	-	DRY
Wider Site R5	25/10/22	13:26	WS245	S	GL	0.63		2.56	-	-	1005	R	0.04	-	-4.5	0.1	0.1	0.8	0.8	20.9	20.9	1	0	-	OK
Wider Site R5	25/10/22	13:35	WS246	S	GL	1.14		4.55	-	-	1005	R	0.14	-	-2.2	0.1	0.1	1.0	1.0	20.2	20.3	0	0	-	OK
Wider Site R5	25/10/22	13:53	WS247	S	GL	0.71		0.92	-	-	1005	R	0.05	-	0.1	0.1	0.1	1.2	1.2	18.5	18.8	0	0	-	OK
Wider Site R5	26/10/22	12:44	WS248	S	GL	1.37		1.60	-	-	1003	R	0.07	-	0.3	0.1	0.1	0.7	0.7	20.0	20.1	0	0	-	OK
Wider Site R5	26/10/22	12:30	WS249	S	GL	Dry	D	0.95	-	-	1003	R	0.11	-	0.2	0.1	0.1	1.1	1.1	19.3	19.3	0	0	-	DRY
Wider Site R5	26/10/22	12:37	WS250	S	GL	Dry	D	0.86	-	-	1003	R	-0.04	-	0.3	0.1	0.1	0.6	0.6	19.8	19.8	0	0	-	DRY
Wider Site R5	26/10/22	12:08	WS251	S	GL	0.54		1.96	-	-	1003	R	-3.08	-	-1.4	0.1	0.1	1.3	1.1	19.2	19.4	1	0	-	OK
Wider Site R5	26/10/22	12:20	WS252	S	GL	0.48		5.05	-	-	1003	R	-2.38	-	-4.9	0.1	0.1	1.2	1.2	19.5	19.6	1	0	-	OK
Wider Site R6	02/11/22	14:15	BH201	S	GL	4.20		5.80	-	-	1003	R	0.00	-	0.1	0.1	0.1	0.9	0.9	20.3	20.3	0	0	-	
Wider Site R6	02/11/22	11:48	BH202	S	GL	3.27		5.15	-	-	1006	R	0.09	-	0.1	0.1	0.1	1.1	1.1	19.2	19.5	0	0	-	
Wider Site R6	01/11/22	14:43	BH203	S	GL	3.16		5.00	-	-	998	F	0.12	-	0.2	0.1	0.1	0.8	0.8	20.1	20.1	0	0	-	
Wider Site R6	01/11/22	15:09	BH204	S	GL	2.43		5.18	-	-	998	F	-0.02	-	0.2	0.1	0.1	0.9	0.9	19.7	19.9	0	0	-	
Wider Site R6	01/11/22	14:51	BH205	S	GL	0.69		4.16	-	-	999	F	0.12	-	-2.9	0.1	0.1	0.3	0.3	20.9	21.1	1	0	-	
Wider Site R6	02/11/22	11:16	WS201	S	GL	Dry	D	1.90	-	-	1006	R	0.00	-	0.1	0.1	0.1	2.9	0.8	19.4	19.8	0	0	-	Dry
Wider Site R6	02/11/22	11:21	WS202	S	GL	1.05		2.00	-	-	1006	R	0.00	-	-4.5	0.1	0.1	1.2	1.2	19.7	19.7	0	0	-	
Wider Site R6	02/11/22	13:04	WS203	S	GL	Dry	D	2.00	-	-	1005	R	0.00	-	0.1	0.1	0.1	0.7	0.7	20.0	20.2	0	0	-	Dry
Wider Site R6	02/11/22	12:54	WS204	S	GL	Dry	D	1.00	-	-	1005	R	-0.12	-	0.1	0.1	0.1	0.2	0.2	20.9	20.9	0	0	-	Dry
Wider Site R6	02/11/22	13:10	WS205	S	GL	0.95		3.11	-	-	1004	R	0.00	-	0.1	0.1	0.1	0.9	0.8	20.2	20.5	1	0	-	
Wider Site R6	02/11/22	13:30	WS206	S	GL	1.64		4.20	-	-	1004	R	-0.21	-	0.1	0.1	0.1	2.0	2.0	18.2	18.2	0	0	-	
Wider Site R6	02/11/22	12:47	WS207	S	GL	0.57		2.20	-	-	1006	R	0.07	-	-4.0	0.1	0.1	1.3	1.3	20.1	20.2	0	0	-	
Wider Site R6	02/11/22	12:41	WS208	S	GL	0.38		2.15	-	-	1006	R	2.45	-	-6.1	0.1	0.1	1.7	1.7	19.8	19.8	0	0	-	
Wider Site R6	02/11/22	13:27	WS209	S	GL	1.47		3.00	-	-	1004	R	0.09	-	0.1	0.1	0.1	2.0	2.0	18.6	18.8	0	0	-	
Wider Site R6	02/11/22	12:33	WS210	S	GL	0.50		2.60	-	-	1006	R	1.44	-	-6.1	0.1	0.1	1.3	1.3	19.7	20.0	0	0	-	
Wider Site R6	02/11/22	11:09	WS211	S	GL	3.05		3.40	-	-	1007	R	0.04	-	0.1	0.1	0.1	3.5	3.3	17.3	17.4	0	0	-	
Wider Site R6	02/11/22	13:18	WS213	S	GL	Dry	D	3.65	-	-	1004	R	0.00	-	0.1	0.1	0.1	0.6	0.6	19.8	20.1	0	0	-	Dry
Wider Site R6	02/11/22	13:45	WS214	S	GL	Dry	D	1.00	-	-	1004	R	0.00	-	0.1	0.1	0.1	1.2	1.2	19.4	19.4	0	0	-	Dry
Wider Site R6	02/11/22	12:25	WS215	S	GL	0.54		2.50	-	-	1006	R	2.40	-	0.1	0.1	0.1	1.0	1.0	20.2	20.2	0	0	-	
Wider Site R6	02/11/22	10:36	WS216	S	GL	3.90		4.20	-	-	1006	R	-0.07	-	0.1	0.1	0.1	0.9	0.9	19.9	19.9	0	0	-	
Wider Site R6	02/11/22	11:36	WS217	S	GL	Dry	D	2.05	-	-	1006	R	0.00	-	0.1	0.1	0.1	1.8	1.8	19.1	19.4	0	0	-	Dry
Wider Site R6	02/11/22	13:51	WS218	S	GL	Dry	D	1.80	-	-	1003	R	0.00	-	0.1	0.1	0.1	1.1	1.1	19.6	19.7	0	0	-	Dry
Wider Site R6	02/11/22	12:10	WS219	S	GL	3.72		5.00	-	-	1006	R	0.04	-	0.1	0.1	0.1	1.4	1.4	19.2	19.2	0	0	-	
Wider Site R6	02/11/22	12:04	WS220	S	GL	1.38		3.00	-	-	1006	R	1.38	-	0.1	0.1	0.1	0.8	0.8	19.2	19.2	0	0	-	
Wider Site R6	02/11/22	10:49	WS221	S	GL	Dry	D	2.05	-	-	1007	R	0.00	-	0.1	0.1	0.1	1.6	1.6	19.2	19.2	0	0	-	Dry
Wider Site R6	02/11/22	13:58	WS222	S	GL	Dry	D	2.53	-	-	1003	R	0.14	-	0.1	0.1	0.1	0.8	0.8	19.8	20.1	0	0	-	Dry
Wider Site R6	02/11/22	12:16	WS223	S	GL	Dry	D	2.00	-	-	1006	R	0.07	-	0.1	0.1	0.1	0.6	0.6	19.6	19.6	0	0	-	Dry
Wider Site R6	01/11/22	13:48	WS224	S	GL	1.04		1.40	-	-	998	F	0.11	-	0.3	0.1	0.1	0.4	0.1	20.3	21.0	0	0	-	OK
Wider Site R6	02/11/22	10:56	WS225	S	GL	Dry	D	2.00	-	-	1007	R	0.00	-	0.1	0.1	0.1	1.2	1.2	19.3	19.3	0	0	-	Dry
Wider Site R6	02/11/22	14:10	WS226	S	GL	Dry	D	1.10	-	-	1003	R	0.00	-	0.1	0.1	0.1	0.7	0.7	19.9	19.9	0	0	-	Dry
Wider Site R6	02/11/22	14:04	WS227	S	GL	Dry	D	2.80	-	-	1003	R	0.00	-	0.1	0.1	0.1	0.8	0.8	20.2	20.2	0	0	-	Dry
Wider Site R6	01/11/22	14:36	WS228	S	GL	Dry	D	1.01	-	-	998	F	0.02	-	0.2	0.1	0.1	0.9	0.9	19.6	19.7	0	0	-	DRY
Wider Site R6	01/11/22	14:32	WS229	S	GL	Dry	D	1.00	-	-	998	F	0.05	-	0.2	0.1	0.1	0.7	0.7	20.4	20.6	0	0	-	DRY
Wider Site R6	02/11/22	14:22	WS230	S	GL	Dry	D	1.10	-	-	1003	R	0.00	-	0.1	0.1	0.1	0.8	0.8	19.7	19.7	0	0	-	Dry
Wider Site R6	01/11/22	14:12	WS231	S	GL	4.47		5.18	-	-	998	F	0.07	-	0.2	0.1	0.1	2.7	2.7	17.9	17.9	0	0	-	OK
Wider Site R6	02/11/22	11:56	WS232	S	GL	1.27		3.00	-	-	1006	R	0.00	-	0.1	0.1	0.1	0.7	0.7	19.5	19.7	0	0	-	
Wider Site R6	01/11/22	13:40	WS233	S	GL	1.19		2.35	-	-	999	F	0.00	-	0.1	0.1	0.1	2.0	2.0	18.9	19.2	0	0	-	OK
Wider Site R6	01/11/22	13:55	WS234	S	GL	1.03		1.68	-	-	999	F	0.05	-	0.3	0.1	0.1	0.3	0.3	20.6	20.6	0	0	-	OK
Wider Site R6	01/11/22	11:53	WS235	S	GL	1.20		5.06	-	-	999	F	0.02	-	0.2	0.1	0.1	1.7	1.6	17.5	17.5	0	0	-	OK
Wider Site R6	01/11/22	11:47	WS236	S	GL	Dry	D	2.00	-	-	998	F	-0.02	-	0.2	0.1	0.1	0.6	0.6	19.9	19.9	0	0	-	DRY
Wider Site R6	01/11/22	14:28	WS237	S	GL	Dry	D	1.05	-	-	998	F	-0.04	-	0.3	0.1	0.1	0.5	0.5	20.3	20.3	0	0	-	DRY
Wider Site R6	01/11/22	14:16	WS238	S	GL	3.88		4.97	-	-	998	F	0.00	-	0.2	0.1	0.1	2.2	2.1	18.9	19.0</				

Monitoring round			Well Details			Water/NAPL Monitoring (m below datum)					Pressure and flow (use < for below LoD)					Gas Concentrations (use < for below LoD)							Local conditions		
Round Reference	Date	Time	Well ID	Single or dual gas tap (S/D)	Datum Type (Casing / GL)	Depth to water	"D" denotes dry hole	Depth to Base of Hole	Depth to LNAPL	Depth to DNAPL	Atm. pressure (hPa)	Atm. pressure falling (F) / rising (R) / steady (S)	Relative BH pressure (hPa)	Initial Gas Flow (L/hr)	Steady Gas Flow (L/hr)	CH <sub>4</sub> (%v/v) - (Initial)	CH <sub>4</sub> (%v/v) - (Steady)	CO <sub>2</sub> (%v/v) - (Initial)	CO <sub>2</sub> (%v/v) - (Steady)	O <sub>2</sub> (%v/v) - (Initial)	O <sub>2</sub> (%v/v) - (Steady)	CO (ppm)	H <sub>2</sub> S (ppm)	VOC (as ppm using PID)	Notes on condition of borehole (including any)
Wider Site R6	01/11/22	15:19	WS244	S	GL	Dry	D	0.93	-	-	999	F	0.00	-	0.3	0.1	0.1	0.7	0.7	19.3	19.5	0	0	-	DRY
Wider Site R6	01/11/22	14:57	WS245	S	GL	0.61		2.58	-	-	999	F	-0.02	-	-6.5	0.1	0.1	0.6	0.6	20.9	21.0	1	0	-	OK
Wider Site R6	01/11/22	15:03	WS246	S	GL	1.11		4.49	-	-	999	F	2.78	-	-3.3	0.1	0.1	0.9	0.9	18.9	18.9	0	0	-	OK
Wider Site R6	01/11/22	15:14	WS247	S	GL	0.67		0.93	-	-	999	F	0.28	-	0.2	0.1	0.1	1.6	1.6	16.9	16.9	0	0	-	OK
Wider Site R6	01/11/22	13:08	WS248	S	GL	1.34		1.65	-	-	999	F	0.14	-	0.3	0.1	0.1	0.9	0.9	19.8	19.8	0	0	-	OK
Wider Site R6	01/11/22	12:54	WS249	S	GL	Dry	D	1.00	-	-	999	F	0.04	-	0.2	0.1	0.1	1.3	1.3	19.3	19.3	0	0	-	DRY
Wider Site R6	01/11/22	13:00	WS250	S	GL	Dry	D	0.89	-	-	999	F	1.39	-	0.3	0.1	0.1	0.8	0.8	19.8	19.8	0	0	-	DRY
Wider Site R6	01/11/22	12:28	WS251	S	GL	0.50		2.00	-	-	999	F	1.44	-	-1.0	0.1	0.1	1.0	1.0	19.4	19.4	2	0	-	OK
Wider Site R6	01/11/22	12:40	WS252	S	GL	0.47		5.18	-	-	999	F	6.53	-	-2.5	0.2	0.2	1.2	1.2	19.5	19.5	1	0	-	OK
Wider Site R7	17/11/22	13:55	BH201	S	GL	4.19		5.86	-	-	1004	F	0.11	-	0.3	0.1	0.1	0.8	0.7	20.8	20.8	0	0	-	OK
Wider Site R7	17/11/22	11:47	BH202	S	GL	3.26		5.15	-	-	1004	F	0.09	-	0.1	0.1	0.1	1.1	1.1	19.2	19.5	0	0	-	OK
Wider Site R7	16/11/22	15:27	BH203	S	GL	3.15		5.00	-	-	981	F	-0.02	-	0.3	0.1	0.1	0.8	0.8	19.7	19.8	0	0	-	OK
Wider Site R7	16/11/22	15:58	BH204	S	GL	2.42		5.18	-	-	981	F	-0.07	-	0.1	0.1	0.1	0.8	0.8	20.3	20.4	0	0	-	OK
Wider Site R7	16/11/22	15:34	BH205	S	GL	0.68		4.16	-	-	981	F	0.02	-	-3.6	0.1	0.1	0.7	0.6	20.6	20.9	1	0	-	OK
Wider Site R7	17/11/22	14:47	WS201	S	GL	Dry	D	1.90	-	-	1004	F	-0.07	-	0.1	0.1	0.1	2.9	0.8	19.4	19.8	0	0	-	DRY
Wider Site R7	17/11/22	14:53	WS202	S	GL	1.04		2.00	-	-	1004	F	0.12	-	0.2	0.1	0.1	0.6	0.6	20.4	20.5	0	0	-	OK
Wider Site R7	17/11/22	12:54	WS203	S	GL	Dry	D	2.00	-	-	1004	F	-0.04	-	0.1	0.1	0.1	0.7	0.7	20.0	20.2	0	0	-	DRY
Wider Site R7	17/11/22	12:46	WS204	S	GL	Dry	D	1.00	-	-	1004	F	-0.02	-	0.2	0.1	0.1	0.2	0.2	21.3	21.4	0	0	-	DRY
Wider Site R7	17/11/22	13:00	WS205	S	GL	0.94		3.00	-	-	1004	F	0.02	-	0.1	0.1	0.1	0.9	0.8	20.2	20.5	1	0	-	OK
Wider Site R7	17/11/22	13:19	WS206	S	GL	1.63		4.20	-	-	1004	F	0.04	-	0.3	0.1	0.1	1.6	1.6	19.0	19.0	0	0	-	OK
Wider Site R7	17/11/22	12:40	WS207	S	GL	0.55		2.20	-	-	1004	F	0.07	-	-4.0	0.1	0.1	1.3	1.3	20.1	20.2	1	0	-	OK
Wider Site R7	17/11/22	12:35	WS208	S	GL	0.29		2.15	-	-	1004	F	2.45	-	-6.1	0.1	0.1	1.7	1.7	19.8	19.8	3	0	-	OK
Wider Site R7	17/11/22	13:14	WS209	S	GL	1.20		3.00	-	-	1004	F	0.05	-	0.2	0.1	0.1	1.6	1.6	19.9	19.9	0	0	-	OK
Wider Site R7	17/11/22	12:27	WS210	S	GL	0.36		2.60	-	-	1004	F	1.44	-	-6.1	0.1	0.1	1.3	1.3	19.7	20.0	3	0	-	OK
Wider Site R7	17/11/22	14:38	WS211	S	GL	2.20		3.40	-	-	1004	F	0.23	-	0.2	0.1	0.1	3.3	3.3	18.1	18.1	0	0	-	OK
Wider Site R7	17/11/22	13:06	WS213	S	GL	Dry	D	3.65	-	-	1004	F	0.00	-	0.3	0.1	0.1	0.5	0.5	20.6	20.7	0	0	-	DRY
Wider Site R7	17/11/22	13:26	WS214	S	GL	Dry	D	1.00	-	-	1004	F	0.02	-	0.1	0.1	0.1	1.2	1.2	19.4	19.4	0	0	-	DRY
Wider Site R7	17/11/22	12:21	WS215	S	GL	0.40		2.50	-	-	1004	F	2.40	-	0.1	0.1	0.1	1.0	1.0	20.2	20.2	2	0	-	OK
Wider Site R7	17/11/22	14:15	WS216	S	GL	3.85		4.20	-	-	1004	F	-0.07	-	0.1	0.1	0.1	0.9	0.9	19.9	19.9	0	0	-	OK
Wider Site R7	17/11/22	15:02	WS217	S	GL	Dry	D	2.05	-	-	1004	F	-0.05	-	0.1	0.1	0.1	1.8	1.8	19.1	19.4	0	0	-	DRY
Wider Site R7	17/11/22	13:31	WS218	S	GL	Dry	D	1.80	-	-	1004	F	-0.07	-	0.2	0.1	0.1	1.0	1.0	20.4	20.6	0	0	-	DRY
Wider Site R7	17/11/22	12:07	WS219	S	GL	3.34		5.00	-	-	1004	F	0.04	-	0.1	0.1	0.1	1.4	1.4	19.2	19.2	0	0	-	OK
Wider Site R7	17/11/22	12:02	WS220	S	GL	1.20		3.00	-	-	1004	F	0.07	-	0.3	0.1	0.1	0.6	0.6	19.7	19.8	0	0	-	OK
Wider Site R7	17/11/22	14:22	WS221	S	GL	Dry	D	2.05	-	-	1004	F	0.00	-	0.1	0.1	0.1	1.6	1.6	19.2	19.2	0	0	-	DRY
Wider Site R7	17/11/22	13:37	WS222	S	GL	Dry	D	2.50	-	-	1004	F	-0.09	-	0.2	0.1	0.1	0.7	0.7	20.7	20.8	0	0	-	DRY
Wider Site R7	17/11/22	12:13	WS223	S	GL	Dry	D	2.00	-	-	1004	F	0.07	-	0.1	0.1	0.1	0.6	0.6	19.6	19.6	0	0	-	DRY
Wider Site R7	17/11/22	11:34	WS224	S	GL	0.84		1.40	-	-	1004	F	0.07	-	0.1	0.1	0.1	0.3	0.2	19.9	21.0	0	0	-	OK
Wider Site R7	17/11/22	14:28	WS225	S	GL	Dry	D	2.00	-	-	1004	F	0.02	-	0.1	0.1	0.1	1.0	1.0	19.9	20.0	0	0	-	DRY
Wider Site R7	17/11/22	13:50	WS226	S	GL	Dry	D	1.10	-	-	1004	F	0.00	-	0.1	0.1	0.1	0.7	0.7	19.9	19.9	0	0	-	DRY
Wider Site R7	17/11/22	13:42	WS227	S	GL	Dry	D	2.80	-	-	1004	F	0.19	-	0.2	0.1	0.1	0.8	0.8	20.8	20.8	0	0	-	DRY
Wider Site R7	16/11/22	15:19	WS228	S	GL	Dry	D	1.01	-	-	981	F	0.02	-	0.2	0.1	0.1	0.9	0.9	19.6	19.7	0	0	-	DRY
Wider Site R7	16/11/22	15:10	WS229	S	GL	Dry	D	1.00	-	-	981	F	0.05	-	0.2	0.1	0.1	0.7	0.7	20.4	20.6	0	0	-	DRY
Wider Site R7	17/11/22	14:03	WS230	S	GL	Dry	D	1.10	-	-	1004	F	0.02	-	0.1	0.1	0.1	0.8	0.8	19.7	19.7	0	0	-	DRY
Wider Site R7	16/11/22	14:02	WS231	S	GL	4.29		5.18	-	-	982	F	0.02	-	0.3	0.1	0.1	3.7	3.5	17.8	17.8	0	0	-	OK
Wider Site R7	17/11/22	11:54	WS232	S	GL	1.12		3.00	-	-	1004	F	-0.05	-	0.2	0.1	0.1	0.6	0.6	20.2	20.2	0	0	-	OK
Wider Site R7	17/11/22	11:18	WS233	S	GL	0.99		2.35	-	-	1004	F	0.00	-	0.1	0.1	0.1	2.0	2.0	18.9	19.2	0	0	-	OK
Wider Site R7	17/11/22	11:26	WS234	S	GL	1.01		1.68	-	-	1004	F	0.05	-	0.3	0.1	0.1	0.3	0.3	20.6	20.6	0	0	-	OK
Wider Site R7	16/11/22	11:53	WS235	S	GL	0.98		5.06	-	-	984	F	-0.02	-	0.1	0.1	0.1	1.7	1.2	18.5	18.5	1	0	-	OK
Wider Site R7	16/11/22	11:46	WS236	S	GL	Dry	D	1.98	-	-	984	F	-0.02	-	0.2	0.1	0.1	1.9	1.9	18.1	18.1	0	0	-	DRY
Wider Site R7	16/11/22	15:05	WS237	S	GL	Dry	D	1.05	-	-	981	F	-0.04	-	0.3	0.1	0.1	0.5	0.5	20.3	20.3	0	0	-	DRY
Wider Site R7	16/11/22	14:12	WS238	S	GL	3.74		4.97	-	-	982	F	0.07	-	0.1	0.1	0.1	2.6	2.1	19.8	19.8	0	0	-	OK
Wider Site R7	17/11/22	11:07	WS239	S	GL	1.25		2.28	-	-	1004	F	0.02	-	0.3	0.1	0.1	0.7	0.7	19.8	19.9	0	0	-	OK
Wider Site R7	17/11/22	11:12	WS240	S	GL	Dry	D	1.10	-	-	1004	F	0.09	-	0.3	0.1	0.1	1.1	1.1	19.7	19.8	0	0	-	DRY
Wider Site R7	17/11/22	10:05	WS241	S	GL	1.24		1.98	-	-	1004	F	0.16	-	0.2	0.1	0.1	1.2	1.2	19.9	19.9	0	0	-	OK
Wider Site R7	16/11/22	12:01	WS242	S	GL	0.31		3.65	-	-	984	F	17.55	-	0.1	0.1	0.1	2.6	2.6	16.9	17.0	2	0	-	OK
Wider Site R7	16/11/22	14:35	WS243	S	GL	Dry	D	1.03	-	-	981	F	0.02	-	0.3	0.1	0.1	0.7	0.7	21.4	21.4	0	0	-	DRY
Wider Site R7	16/11/22	16:15	WS244	S	GL	Dry	D	0.93	-	-	981	F	0.00	-	0.3	0.1	0.1	0.7	0.7	19.3	19.5	0	0	-	DRY
Wider Site R7	16/11/22	15:39	WS245	S	GL	0.56		2.58	-	-	981	F	0.04	-	-4.5	0.1	0.1	0.8	0.8	20.9	20.9	1	0	-	OK
Wider Site R7	16/11/22	15:48	WS246	S	GL	0.98		4.49	-	-	981	F	0.14	-	-2.2	0.1	0.1	1.0	1.0	20.2	20.3	0	0	-	OK
Wider Site R7	16/11/22	16:06	WS247	S	GL	0.56		0.93	-	-	981	F	0.05	-	0.1	0.1									

Monitoring round			Well Details			Water/NAPL Monitoring (m below datum)					Pressure and flow (use < for below LoD)					Gas Concentrations (use < for below LoD)								Local conditions	
Round Reference	Date	Time	Well ID	Single or dual gas tap (S/D)	Datum Type (Casing / GL)	Depth to water	"D" denotes dry hole	Depth to Base of Hole	Depth to LNAPL	Depth to DNAPL	Atm. pressure (hPa)	Atm. pressure falling (F) / rising (R) / steady (S)	Relative BH pressure (hPa)	Initial Gas Flow (L/hr)	Steady Gas Flow (L/hr)	CH <sub>4</sub> (%v/v) - (Initial)	CH <sub>4</sub> (%v/v) - (Steady)	CO <sub>2</sub> (%v/v) - (Initial)	CO <sub>2</sub> (%v/v) - (Steady)	O <sub>2</sub> (%v/v) - (Initial)	O <sub>2</sub> (%v/v) - (Steady)	CO (ppm)	H <sub>2</sub> S (ppm)	VOC (as ppm using PID)	Notes on condition of borehole (including any
Wider Site R8	21/12/22	10:26	BH201	S	GL	4.20		5.86	-	-	1003	F	0.12	-	0.1	0.1	0.1	0.9	0.9	20.3	20.3	0	0	-	OK
Wider Site R8	21/12/22	10:45	BH202	S	GL	3.30		5.15	-	-	1003	F	-0.05	-	0.2	0.1	0.1	0.8	0.8	19.9	20.1	0	0	-	OK
Wider Site R8	19/12/22	12:23	BH203	S	GL	2.82		5.00	-	-	997	F	-0.04	-	0.2	0.1	0.1	0.6	0.6	20.5	20.9	0	0	-	OK
Wider Site R8	19/12/22	13:00	BH204	S	GL	1.83		5.18	-	-	996	F	0.07	-	0.2	0.1	0.1	0.8	0.8	20.1	20.4	0	0	-	OK
Wider Site R8	19/12/22	12:32	BH205	S	GL	0.42		4.16	-	-	997	F	8.77	-	-2.0	0.1	0.1	2.3	2.3	17.1	17.4	18	0	-	OK
Wider Site R8	21/12/22	09:49	WS201	S	GL	Dry	D	1.90	-	-	1003	F	0.11	-	0.1	0.1	0.1	1.3	0.7	19.9	20.3	0	0	-	DRY
Wider Site R8	21/12/22	09:57	WS202	S	GL	1.10		2.00	-	-	1003	F	1.07	-	-4.5	0.1	0.1	1.2	1.2	19.7	19.7	1	0	-	OK
Wider Site R8	21/12/22	12:06	WS203	S	GL	Dry	D	2.00	-	-	1003	F	-0.04	-	0.1	0.1	0.1	0.7	0.7	20.0	20.2	0	0	-	DRY
Wider Site R8	21/12/22	11:58	WS204	S	GL	Dry	D	1.00	-	-	1003	F	-0.02	-	0.2	0.1	0.1	0.2	0.2	21.3	21.4	0	0	-	DRY
Wider Site R8	21/12/22	12:13	WS205	S	GL	0.55		3.00	-	-	1003	F	0.07	-	0.2	0.1	0.1	1.7	1.6	20.1	20.3	0	0	-	OK
Wider Site R8	21/12/22	11:51	WS206	S	GL	1.44		4.20	-	-	1003	F	-0.21	-	0.1	0.1	0.1	2.0	2.0	18.2	18.2	0	0	-	OK
Wider Site R8	21/12/22	11:42	WS207	S	GL	0.42		2.20	-	-	1003	F	-0.58	-	-2.3	0.1	0.1	1.5	1.5	20.5	20.5	2	0	-	OK
Wider Site R8	21/12/22	11:37	WS208	S	GL	0.24		2.15	-	-	1003	F	10.96	-	3.2	0.1	0.1	1.7	1.7	20.2	20.3	3	0	-	OK
Wider Site R8	21/12/22	12:19	WS209	S	GL	0.98		3.00	-	-	1003	F	0.09	-	0.0	0.1	0.1	2.0	2.0	18.6	18.8	0	0	-	OK
Wider Site R8	21/12/22	11:20	WS210	S	GL	0.33		2.60	-	-	1003	F	2.25	-	0.9	0.1	0.1	1.3	1.3	20.3	20.4	2	0	-	OK
Wider Site R8	21/12/22	09:38	WS211	S	GL	1.98		3.40	-	-	1003	F	0.04	-	0.1	0.1	0.1	3.5	3.3	17.3	17.4	0	0	-	OK
Wider Site R8	21/12/22	10:03	WS213	S	GL	Dry	D	3.66	-	-	1003	F	0.00	-	0.2	0.1	0.1	0.6	0.5	19.7	19.8	0	0	-	DRY
Wider Site R8	21/12/22	12:25	WS214	S	GL	Dry	D	1.00	-	-	1003	F	0.02	-	0.1	0.1	0.1	1.1	1.0	20.2	20.2	0	0	-	DRY
Wider Site R8	21/12/22	11:29	WS215	S	GL	0.33		2.50	-	-	1003	F	3.50	-	-1.4	0.1	0.1	0.6	0.6	20.7	20.7	1	0	-	OK
Wider Site R8	21/12/22	09:25	WS216	S	GL	3.80		4.20	-	-	1003	F	-0.10	-	0.2	0.1	0.1	1.5	1.5	19.7	19.8	0	0	-	OK
Wider Site R8	21/12/22	10:11	WS217	S	GL	Dry	D	2.05	-	-	1003	F	-0.11	-	0.3	0.1	0.1	1.5	1.4	19.8	19.9	0	0	-	DRY
Wider Site R8	21/12/22	12:31	WS218	S	GL	Dry	D	1.80	-	-	1003	F	-0.09	-	0.1	0.1	0.1	1.1	1.1	19.6	19.7	0	0	-	DRY
Wider Site R8	21/12/22	11:05	WS219	S	GL	3.31		5.00	-	-	1003	F	0.02	-	0.3	0.1	0.1	1.0	1.0	19.8	19.9	0	0	-	OK
Wider Site R8	21/12/22	11:11	WS220	S	GL	0.99		3.00	-	-	1003	F	0.02	-	0.2	0.1	0.1	0.8	0.8	19.2	19.2	0	0	-	OK
Wider Site R8	21/12/22	09:30	WS221	S	GL	Dry	D	2.05	-	-	1003	F	0.02	-	0.2	0.1	0.1	1.7	1.7	18.8	18.9	0	0	-	DRY
Wider Site R8	21/12/22	12:44	WS222	S	GL	Dry	D	2.50	-	-	1003	F	0.10	-	0.3	0.1	0.1	0.8	0.8	19.8	20.1	0	0	-	DRY
Wider Site R8	21/12/22	10:58	WS223	S	GL	Dry	D	2.00	-	-	1003	F	0.02	-	0.2	0.1	0.1	0.5	0.5	20.4	20.5	0	0	-	DRY
Wider Site R8	19/12/22	11:13	WS224	S	GL	0.64		1.40	-	-	1003	F	0.11	-	0.3	0.1	0.1	0.4	0.1	20.3	21.0	0	0	-	OK
Wider Site R8	21/12/22	09:35	WS225	S	GL	Dry	D	2.00	-	-	1003	F	0.07	-	0.1	0.1	0.1	1.2	1.2	19.3	19.3	0	0	-	DRY
Wider Site R8	21/12/22	10:21	WS226	S	GL	Dry	D	1.10	-	-	1003	F	0.02	-	0.3	0.1	0.1	0.5	0.5	20.5	20.5	0	0	-	DRY
Wider Site R8	21/12/22	12:49	WS227	S	GL	Dry	D	2.80	-	-	1003	F	0.20	-	0.2	0.1	0.1	0.8	0.8	20.2	20.2	0	0	-	DRY
Wider Site R8	19/12/22	12:17	WS228	S	GL	Dry	D	1.01	-	-	996	F	-0.16	-	0.2	0.1	0.1	0.8	0.8	20.1	20.2	0	0	-	DRY
Wider Site R8	19/12/22	12:12	WS229	S	GL	Dry	D	1.00	-	-	996	F	0.21	-	0.3	0.1	0.1	0.6	0.6	20.6	20.6	0	0	-	DRY
Wider Site R8	21/12/22	10:40	WS230	S	GL	Dry	D	1.10	-	-	1003	F	0.03	-	0.2	0.1	0.1	0.7	0.7	20.4	20.6	0	0	-	DRY
Wider Site R8	19/12/22	11:20	WS231	S	GL	3.49		5.18	-	-	997	F	-0.05	-	0.3	0.1	0.1	3.6	3.6	17.1	17.1	0	0	-	OK
Wider Site R8	21/12/22	10:51	WS232	S	GL	0.87		3.00	-	-	1003	F	-0.20	-	-2.9	0.1	0.1	0.7	0.7	19.5	19.7	0	0	-	OK
Wider Site R8	19/12/22	11:02	WS233	S	GL	0.33		2.35	-	-	1003	F	-0.10	-	0.2	0.1	0.1	1.8	1.8	19.1	19.2	0	0	-	OK
Wider Site R8	19/12/22	11:13	WS234	S	GL	0.59		1.68	-	-	1003	F	0.04	-	0.2	0.1	0.1	0.2	0.3	20.5	20.6	0	0	-	OK
Wider Site R8	19/12/22	14:37	WS235	S	GL	0.94		5.06	-	-	1003	F	0.01	-	0.3	0.1	0.1	1.6	1.7	17.5	17.6	0	0	-	OK
Wider Site R8	19/12/22	14:29	WS236	S	GL	Dry	D	1.98	-	-	1003	F	0.02	-	0.3	0.1	0.1	1.9	1.9	19.2	19.2	0	0	-	DRY
Wider Site R8	19/12/22	12:01	WS237	S	GL	Dry	D	1.05	-	-	996	F	0.16	-	0.3	0.1	0.1	0.5	0.5	20.6	20.8	0	0	-	DRY
Wider Site R8	19/12/22	11:29	WS238	S	GL	1.96		4.97	-	-	996	F	0.00	-	0.2	0.1	0.1	1.8	1.6	19.1	19.6	1	0	-	OK
Wider Site R8	19/12/22	10:49	WS239	S	GL	0.98		2.28	-	-	1003	F	-0.02	-	0.3	0.1	0.1	0.8	0.8	19.5	19.6	0	0	-	OK
Wider Site R8	19/12/22	10:55	WS240	S	GL	Dry	D	1.10	-	-	1003	F	0.12	-	0.3	0.1	0.1	1.2	1.2	19.4	19.4	0	0	-	OK
Wider Site R8	19/12/22	09:50	WS241	S	GL	0.88		1.98	-	-	1003	F	0.03	-	-1.6	0.1	0.1	1.5	1.5	19.2	19.3	0	0	-	OK
Wider Site R8	19/12/22	14:55	WS242	S	GL	0.28		3.65	-	-	1003	F	8.85	-	-1.2	0.1	0.1	2.3	2.4	18.5	18.5	1	0	-	OK
Wider Site R8	19/12/22	11:42	WS243	S	GL	Dry	D	1.03	-	-	996	F	0.12	-	0.2	0.1	0.1	0.7	0.7	20.5	20.6	0	0	-	DRY
Wider Site R8	19/12/22	13:11	WS244	S	GL	0.65		0.93	-	-	996	F	0.11	-	0.2	0.1	0.1	0.6	0.6	18.8	20.7	0	0	-	OK
Wider Site R8	19/12/22	12:46	WS245	S	GL	0.45		2.58	-	-	997	F	9.90	-	0.3	0.1	0.1	2.0	2.0	16.3	16.4	2	0	-	OK
Wider Site R8	19/12/22	12:53	WS246	S	GL	0.84		4.49	-	-	996	F	1.81	-	0.1	0.1	0.1	2.8	2.7	17.1	17.2	2	0	-	OK
Wider Site R8	19/12/22	13:05	WS247	S	GL	0.30		0.93	-	-	997	F	41.77	-	6.3	0.1	0.1	1.2	1.2	13.4	13.4	2	0	-	OK
Wider Site R8	19/12/22	10:37	WS248	S	GL	1.28		1.65	-	-	1003	F	0.14	-	0.3	0.1	0.1	0.9	0.9	19.8	19.8	0	0	-	OK
Wider Site R8	19/12/22	10:19	WS249	S	GL	Dry	D	1.00	-	-	1003	F	0.06	-	0.3	0.1	0.1	1.2	1.3	18.9	19.0	0	0	-	DRY
Wider Site R8	19/12/22	10:29	WS250	S	GL	0.68		0.89	-	-	1003	F	1.02	-	0.2	0.1	0.1	1.0	1.0	19.9	20.1	0	0	-	OK
Wider Site R8	19/12/22	09:59	WS251	S	GL	0.32		2.00	-	-	1003	F	-0.02	-	0.1	0.1	0.1	1.1	1.2	20.1	19.8	1	0	-	OK
Wider Site R8	19/12/22	10:05	WS252	S	GL	0.25		5.18	-	-	1003	F	1.03	-	-3.2	0.1	0.2	1.1	1.2	18.8	17.9	0	0	-	OK
Wider Site R9	10/01/23	12:58	BH201	S	GL	3.61		5.86	-	-	997	R	0.09	-	0.2	0.1	0.1	0.8	0.8	20.2	20.2	0	0	-	OK
Wider Site R9	10/01/23	13:12	BH202	S	GL	0.95		5.15	-	-	997	R	0.25	-	-4.1	0.1	0.1	0.7	0.6	20.4	20.6	0	0	-	OK
Wider Site R9	11/01/23	11:55	BH203	S	GL	2.75		5.00	-	-	1003	R	-0.04	-	0.2	0.1	0.1	0.6	0.6	20.5	20.9	0	0	-	OK
Wider Site R9	11/01/23	12:26	BH204	S	GL	1.74		5.18	-	-	1003	R	0.07	-											

Monitoring round			Well Details			Water/NAPL Monitoring (m below datum)					Pressure and flow (use < for below LoD)					Gas Concentrations (use < for below LoD)								Local conditions	
Round Reference	Date	Time	Well ID	Single or dual gas tap (S/D)	Datum Type (Casing / GL)	Depth to water	"D" denotes dry hole	Depth to Base of Hole	Depth to LNAPL	Depth to DNAPL	Atm. pressure (hPa)	Atm. pressure falling (F) / rising (R)/ steady (S)	Relative BH pressure (hPa)	Initial Gas Flow (L/hr)	Steady Gas Flow (L/hr)	CH <sub>4</sub> (%v/v) - (Initial)	CH <sub>4</sub> (%v/v) - (Steady)	CO <sub>2</sub> (%v/v) - (Initial)	CO <sub>2</sub> (%v/v) - (Steady)	O <sub>2</sub> (%v/v) - (Initial)	O <sub>2</sub> (%v/v) - (Steady)	CO (ppm)	H <sub>2</sub> S (ppm)	VOC (as ppm using PID)	Notes on condition of borehole (including any)
Wider Site R9	10/01/23	14:40	WS205	S	GL	0.30		3.00	-	-	996	R	-0.11	-	0.2	0.1	0.1	1.5	1.5	20.4	20.4	0	0	-	OK
Wider Site R9	10/01/23	14:19	WS206	S	GL	1.22		4.20	-	-	996	R	-0.04	-	0.2	0.1	0.1	1.9	1.9	19.5	19.5	0	0	-	OK
Wider Site R9	10/01/23	14:10	WS207	S	GL	0.30		2.20	-	-	996	R	-0.44	-	-6.1	0.1	0.1	2.7	2.7	17.9	19.7	1	0	-	OK
Wider Site R9	10/01/23	14:05	WS208	S	GL	0.18		2.15	-	-	996	R	25.38	-	4.7	0.1	0.1	4.0	4.0	11.6	11.6	4	0	-	OK
Wider Site R9	10/01/23	14:46	WS209	S	GL	0.82		3.00	-	-	996	R	-0.30	-	-1.5	0.1	0.1	1.2	1.2	19.7	19.9	1	0	-	OK
Wider Site R9	10/01/23	13:43	WS210	S	GL	0.24		2.60	-	-	997	R	23.39	-	4.1	0.1	0.1	2.0	2.0	14.6	14.7	0	0	-	OK
Wider Site R9	10/01/23	12:14	WS211	S	GL	1.54		3.40	-	-	997	R	4.93	-	0.2	0.1	0.1	2.8	2.8	16.6	16.6	0	0	-	OK
Wider Site R9	10/01/23	12:38	WS213	S	GL	Dry	D	3.66	-	-	997	R	0.28	-	0.2	0.1	0.1	0.5	0.5	20.6	20.6	0	0	-	DRY
Wider Site R9	10/01/23	14:52	WS214	S	GL	Dry	D	1.02	-	-	995	R	0.04	-	0.2	0.1	0.1	0.9	0.9	19.8	19.8	0	0	-	DRY
Wider Site R9	10/01/23	13:58	WS215	S	GL	0.27		2.50	-	-	996	R	12.26	-	0.2	0.1	0.1	1.9	1.9	12.6	12.6	4	0	-	OK
Wider Site R9	10/01/23	11:54	WS216	S	GL	3.23		4.20	-	-	997	R	0.00	-	0.2	0.1	0.1	1.2	1.2	19.5	19.6	0	0	-	OK
Wider Site R9	10/01/23	12:46	WS217	S	GL	Dry	D	2.09	-	-	997	R	-0.04	-	0.2	0.1	0.1	1.7	1.7	19.9	19.9	0	0	-	DRY
Wider Site R9	10/01/23	14:56	WS218	S	GL	Dry	D	1.82	-	-	995	R	0.00	-	0.2	0.1	0.1	1.0	1.0	19.7	19.7	0	0	-	DRY
Wider Site R9	10/01/23	13:30	WS219	S	GL	3.28		5.00	-	-	996	R	0.05	-	0.2	0.1	0.1	1.7	1.7	19.3	19.6	0	0	-	OK
Wider Site R9	10/01/23	13:35	WS220	S	GL	0.84		3.00	-	-	997	R	-0.95	-	-4.5	0.1	0.1	1.0	1.0	18.2	18.2	2	0	-	OK
Wider Site R9	10/01/23	11:59	WS221	S	GL	Dry	D	1.99	-	-	997	R	-0.04	-	0.2	0.1	0.1	1.7	1.7	18.8	18.9	0	0	-	DRY
Wider Site R9	10/01/23	15:09	WS222	S	GL	Dry	D	2.49	-	-	995	R	0.19	-	0.2	0.1	0.1	0.7	0.7	20.5	20.5	0	0	-	DRY
Wider Site R9	10/01/23	13:26	WS223	S	GL	1.73		2.00	-	-	996	R	-0.04	-	0.2	0.1	0.1	0.5	0.5	20.3	20.4	0	0	-	OK
Wider Site R9	11/01/23	10:17	WS224	S	GL	0.44		1.40	-	-	1003	R	0.07	-	0.2	0.1	0.1	0.3	0.3	21.2	21.4	0	0	-	OK
Wider Site R9	10/01/23	12:04	WS225	S	GL	Dry	D	2.00	-	-	997	R	-0.05	-	0.2	0.1	0.1	1.0	1.0	19.5	19.5	0	0	-	DRY
Wider Site R9	10/01/23	12:53	WS226	S	GL	Dry	D	1.18	-	-	997	R	0.09	-	0.2	0.1	0.1	0.7	0.7	20.2	20.4	0	0	-	DRY
Wider Site R9	10/01/23	15:14	WS227	S	GL	Dry	D	2.78	-	-	995	R	0.14	-	0.2	0.1	0.1	0.8	0.8	20.3	20.4	0	0	-	DRY
Wider Site R9	11/01/23	11:47	WS228	S	GL	Dry	D	1.01	-	-	1003	R	0.02	-	0.2	0.1	0.1	0.9	0.9	19.6	19.7	0	0	-	DRY
Wider Site R9	11/01/23	11:38	WS229	S	GL	Dry	D	1.00	-	-	1003	R	0.05	-	0.2	0.1	0.1	0.7	0.7	20.4	20.6	0	0	-	DRY
Wider Site R9	10/01/23	13:08	WS230	S	GL	Dry	D	1.15	-	-	997	R	-0.19	-	0.2	0.1	0.1	0.7	0.7	20.0	20.1	0	0	-	DRY
Wider Site R9	11/01/23	10:31	WS231	S	GL	3.28		5.18	-	-	1003	R	0.02	-	0.3	0.1	0.1	3.7	3.5	17.8	17.8	0	0	-	OK
Wider Site R9	10/01/23	13:18	WS232	S	GL	0.13		3.00	-	-	997	R	-0.23	-	-4.1	0.1	0.1	0.6	0.6	20.6	20.8	0	0	-	OK
Wider Site R9	11/01/23	10:08	WS233	S	GL	0.12		2.35	-	-	1003	R	-0.53	-	-2.8	0.1	0.1	1.5	1.5	17.6	17.7	0	0	-	OK
Wider Site R9	11/01/23	10:24	WS234	S	GL	0.21		1.68	-	-	1003	R	4.12	-	-3.2	0.1	0.1	0.9	0.9	15.8	15.8	2	0	-	OK
Wider Site R9	11/01/23	14:16	WS235	S	GL	0.91		5.06	-	-	1003	R	0.02	-	0.2	0.1	0.1	1.7	1.6	17.5	17.5	0	0	-	OK
Wider Site R9	11/01/23	14:09	WS236	S	GL	Dry	D	1.98	-	-	1003	R	0.02	-	0.3	0.1	0.1	1.9	1.9	19.2	19.2	0	0	-	DRY
Wider Site R9	11/01/23	11:28	WS237	S	GL	Dry	D	1.05	-	-	1003	R	0.16	-	0.3	0.1	0.1	0.5	0.5	20.6	20.8	0	0	-	DRY
Wider Site R9	11/01/23	10:41	WS238	S	GL	1.88		4.97	-	-	1003	R	0.07	-	0.2	0.1	0.1	2.6	2.1	19.8	19.8	0	0	-	OK
Wider Site R9	11/01/23	09:55	WS239	S	GL	0.13		2.28	-	-	1003	R	-1.48	-	-3.1	0.1	0.1	1.0	1.0	16.6	16.8	2	0	-	OK
Wider Site R9	11/01/23	10:01	WS240	S	GL	0.14		1.14	-	-	1003	R	24.04	-	1.8	0.1	0.1	2.0	2.0	17.4	17.4	2	0	-	OK
Wider Site R9	11/01/23	08:51	WS241	S	GL	0.55		1.98	-	-	1002	R	0.02	-	-1.7	0.1	0.1	0.7	0.7	19.8	19.8	0	0	-	OK
Wider Site R9	11/01/23	14:24	WS242	S	GL	0.22		3.65	-	-	1003	R	7.94	-	-3.3	0.1	0.1	2.4	2.4	18.6	18.8	1	0	-	OK
Wider Site R9	11/01/23	11:04	WS243	S	GL	Dry	D	1.03	-	-	1003	R	0.02	-	0.3	0.1	0.1	0.7	0.7	21.4	21.4	0	0	-	DRY
Wider Site R9	11/01/23	12:31	WS244	S	GL	0.66		0.93	-	-	1003	R	0.11	-	0.2	0.1	0.1	0.7	0.7	19.3	19.5	0	0	-	DRY
Wider Site R9	11/01/23	12:07	WS245	S	GL	0.28		2.58	-	-	1003	R	0.04	-	-4.5	0.1	0.1	0.8	0.8	20.9	20.9	1	0	-	OK
Wider Site R9	11/01/23	12:16	WS246	S	GL	0.75		4.49	-	-	1003	R	0.14	-	-2.2	0.1	0.1	1.0	1.0	20.2	20.3	0	0	-	OK
Wider Site R9	11/01/23	12:34	WS247	S	GL	0.25		0.93	-	-	1003	R	0.05	-	0.1	0.1	0.1	1.2	1.2	18.5	18.8	0	0	-	OK
Wider Site R9	11/01/23	09:43	WS248	S	GL	0.36		1.65	-	-	1003	R	2.68	-	-5.6	0.1	0.1	1.0	1.0	15.7	15.8	3	0	-	OK
Wider Site R9	11/01/23	09:26	WS249	S	GL	0.65		1.00	-	-	1003	R	-0.02	-	-1.6	0.1	0.1	1.8	1.8	19.5	19.6	1	0	-	OK
Wider Site R9	11/01/23	09:35	WS250	S	GL	0.22		0.89	-	-	1003	R	0.55	-	-4.0	0.1	0.1	1.0	1.0	20.7	20.8	1	0	-	OK
Wider Site R9	11/01/23	09:02	WS251	S	GL	0.25		2.00	-	-	1003	R	-0.16	-	-0.4	0.1	0.1	1.3	1.1	19.4	19.5	0	0	-	WATER LOGGED FIELD
Wider Site R9	11/01/23	09:14	WS252	S	GL	0.19		5.18	-	-	1003	R	-0.39	-	-4.4	0.1	0.1	1.3	1.3	16.9	17.0	0	0	-	OK
Wider Site R10	09/02/23	14:29	BH201	S	GL	3.35		4.87	-	-	1027	R	-0.05	-	0.1	0.1	0.1	0.7	0.7	21.1	21.4	0	0	-	OK
Wider Site R10	10/02/23	14:55	BH203	S	GL	2.82		4.84	-	-	1030	R	0.05	-	0.1	0.1	0.1	0.6	0.6	20.3	20.3	0	0	-	OK
Wider Site R10	10/02/23	15:49	BH204	S	GL	1.82		5.01	-	-	1030	R	-0.05	-	0.1	0.1	0.1	0.8	0.8	20.1	20.3	0	0	-	SILT
Wider Site R10	10/02/23	15:11	BH205	S	GL	0.60		4.16	-	-	1030	R	-6.63	-	-0.1	0.1	0.1	1.9	1.9	15.4	15.4	2	0	-	OK
Wider Site R10	09/02/23	13:47	WS201	S	GL	1.64		1.95	-	-	1027	R	-0.58	-	0.1	0.1	0.1	0.7	0.5	14.2	15.7	0	0	-	OK
Wider Site R10	09/02/23	13:56	WS202	S	GL	0.57		2.03	-	-	1027	R	-1.13	-	-0.1	0.1	0.1	0.5	0.5	20.2	20.4	2	0	-	OK
Wider Site R10	09/02/23	15:49	WS203	S	GL	2.03	D	2.03	-	-	1027	R	-0.11	-	0.1	0.1	0.1	0.6	0.6	20.8	21.4	0	0	-	DRY
Wider Site R10	09/02/23	15:58	WS204	S	GL	1.35	D	1.35	-	-	1028	R	0.05	-	0.1	0.1	0.1	0.6	0.6	20.5	20.5	0	0	-	DRY
Wider Site R10	09/02/23	15:35	WS205	S	GL	0.57		2.99	-	-	1028	R	-0.86	-	-0.1	0.1	0.1	2.6	2.5	17.9	18.1	1	0	-	OK
Wider Site R10	09/02/23	15:24	WS206	S	GL	1.54		4.19	-	-	1028	R	-0.11	-	0.1	0.1	0.1	1.6	1.6	20.7	20.8	0	0	-	SILT
Wider Site R10	09/02/23	16:09	WS207	S	GL	0.58		2.16	-	-	1029	R	0.04	-	0.1	0.1	0.1	2.2	2.2	19.3	19.3	15	0	-	SILT
Wider Site R10	09/02/23	16:29	WS208	S	GL	0.40		2.20	-	-	1029	R	-22.80	-	-0.4	0.1	0.1	3.2	3.2	12.5	12.5	4	0	-	WATER SILT 3rd run on gas, 2.30min water up pipe. Pi
Wider Site R10	09/02/23	15:15	WS209	S	GL	1.00		3.0																	



Monitoring round			Well Details			Water/NAPL Monitoring (m below datum)					Pressure and flow (use < for below LoD)					Gas Concentrations (use < for below LoD)							Local conditions		
Round Reference	Date	Time	Well ID	Single or dual gas tap (S/D)	Datum Type (Casing / GL)	Depth to water	"D" denotes dry hole	Depth to Base of Hole	Depth to LNAPL	Depth to DNAPL	Atm. pressure (hPa)	Atm. pressure falling (F) / rising (R)/ steady (S)	Relative BH pressure (hPa)	Initial Gas Flow (L/hr)	Steady Gas Flow (L/hr)	CH <sub>4</sub> (%v/v) - (Initial)	CH <sub>4</sub> (%v/v) - (Steady)	CO <sub>2</sub> (%v/v) - (Initial)	CO <sub>2</sub> (%v/v) - (Steady)	O <sub>2</sub> (%v/v) - (Initial)	O <sub>2</sub> (%v/v) - (Steady)	CO (ppm)	H <sub>2</sub> S (ppm)	VOC (as ppm using PID)	Notes on condition of borehole (including any)
Wider Site R10	09/02/23	13:03	WS216	S	GL	2.97		4.07	-	-	1026	R	0.35	-	0.1	0.1	0.1	1.0	1.0	19.1	19.1	0	1	-	OK
Wider Site R10	09/02/23	14:14	WS217	S	GL	2.08	D	2.08	-	-	1027	R	0.04	-	0.1	0.1	0.1	1.4	1.4	20.6	20.7	0	0	-	DRY
Wider Site R10	09/02/23	14:49	WS218	S	GL	1.81	D	1.81	-	-	1027	R	0.07	-	0.1	0.1	0.1	0.8	0.8	20.9	20.9	0	0	-	DRY
Wider Site R10	09/02/23	13:14	WS221	S	GL	2.04	D	2.04	-	-	1027	R	0.02	-	0.1	0.1	0.1	1.2	1.2	19.7	20.0	0	0	-	DRY
Wider Site R10	09/02/23	14:42	WS222	S	GL	2.49	D	2.49	-	-	1027	R	0.07	-	0.1	0.1	0.1	0.8	0.8	20.8	20.8	0	0	-	DRY
Wider Site R10	10/02/23	13:47	WS224	S	GL	0.56		1.39	-	-	1030	R	-0.02	-	0.1	0.1	0.1	0.4	0.3	20.6	21.2	0	0	-	OK
Wider Site R10	09/02/23	13:20	WS225	S	GL	2.04	D	2.04	-	-	1026	R	-0.02	-	0.1	0.1	0.1	0.8	0.8	20.4	20.5	0	0	-	DRY
Wider Site R10	09/02/23	14:22	WS226	S	GL	1.18	D	1.18	-	-	1027	R	0.11	-	0.1	0.1	0.1	0.6	0.6	21.2	21.3	0	0	-	DRY
Wider Site R10	09/02/23	14:36	WS227	S	GL	2.77	D	2.77	-	-	1027	R	0.07	-	0.1	0.1	0.1	0.7	0.7	21.2	21.4	0	0	-	DRY
Wider Site R10	10/02/23	14:47	WS228	S	GL	1.03	D	1.03	-	-	1029	R	0.05	-	0.1	0.1	0.1	0.8	0.8	20.1	20.3	0	0	-	DRY
Wider Site R10	10/02/23	14:42	WS229	S	GL	2.00	D	2.00	-	-	1029	R	0.02	-	0.1	0.1	0.1	0.5	0.5	20.9	20.9	0	0	-	DRY
Wider Site R10	10/02/23	14:08	WS231	S	GL	2.80		4.96	-	-	1030	R	0.14	-	0.1	0.1	0.1	3.3	3.3	18.5	18.5	0	0	-	OK
Wider Site R10	10/02/23	14:35	WS232	S	GL	1.06	D	1.06	-	-	1029	R	-0.11	-	0.1	0.1	0.1	0.5	0.5	21.2	21.5	0	0	-	DRY
Wider Site R10	10/02/23	13:21	WS233	S	GL	0.40		2.27	-	-	1031	R	-0.04	-	0.1	0.1	0.1	1.0	0.7	20.5	20.8	0	0	-	SILT
Wider Site R10	10/02/23	13:39	WS234	S	GL	0.33		1.67	-	-	1031	R	-13.79	-	-0.2	0.1	0.1	0.5	0.5	17.2	17.2	1	0	-	OK
Wider Site R10	10/02/23	14:15	WS238	S	GL	1.86		4.98	-	-	1030	R	0.04	-	0.1	0.1	0.1	1.5	1.5	19.8	19.8	1	0	-	OK
Wider Site R10	10/02/23	12:58	WS239	S	GL	0.47		2.28	-	-	1030	R	-2.54	-	-0.3	0.1	0.1	1.2	1.1	18.9	19.0	1	0	-	OK
Wider Site R10	10/02/23	13:14	WS240	S	GL	0.69		1.50	-	-	1030	R	-23.61	-	-0.6	0.1	0.1	0.7	0.7	19.1	19.1	1	0	-	OK
Wider Site R10	10/02/23	11:06	WS241	S	GL	0.78		2.00	-	-	1031	R	-0.04	-	0.1	0.1	0.1	0.6	0.5	20.1	20.6	0	0	-	OK
Wider Site R10	10/02/23	14:24	WS243	S	GL	1.03	D	1.03	-	-	1029	R	0.02	-	0.1	0.1	0.1	0.7	0.6	20.8	21.1	0	0	-	DRY
Wider Site R10	10/02/23	16:20	WS244	S	GL	0.64		0.95	-	-	1030	R	-14.83	-	-0.3	0.1	0.1	0.4	0.4	20.1	20.2	2	0	-	OK
Wider Site R10	10/02/23	15:27	WS245	S	GL	0.59		2.56	-	-	1030	R	-20.03	-	-0.2	0.1	0.1	0.8	0.8	18.6	18.7	1	0	-	SILT
Wider Site R10	10/02/23	15:42	WS246	S	GL	0.93		4.48	-	-	1030	R	0.93	-	-0.2	0.1	0.1	2.4	2.1	17.6	18.2	2	0	-	OK
Wider Site R10	10/02/23	16:04	WS247	S	GL	0.03		0.96	-	-	1030	R	11.00	-	0.3	0.1	0.1	0.9	0.9	12.0	12.0	4	0	-	OK
Wider Site R10	10/02/23	12:14	WS248	S	GL	0.58		1.65	-	-	1031	R	-18.21	-	-0.2	0.1	0.1	0.5	0.5	19.5	19.5	1	0	-	OK
Wider Site R10	10/02/23	11:49	WS249	S	GL	1.01	D	1.01	-	-	1031	R	0.09	-	0.1	0.1	0.1	1.7	1.7	19.1	19.2	0	0	-	DRY
Wider Site R10	10/02/23	11:57	WS250	S	GL	0.57		0.90	-	-	1031	R	0.11	-	0.1	0.1	0.1	1.0	1.0	20.7	20.9	0	0	-	OK
Wider Site R10	10/02/23	11:21	WS251	S	GL	0.43		2.00	-	-	1031	R	-4.21	-	-0.1	0.1	0.1	1.0	0.8	19.1	19.3	7	0	-	OK
Wider Site R10	10/02/23	11:38	WS252	S	GL	0.43		5.03	-	-	1031	R	-9.78	-	-0.2	0.1	0.1	1.1	1.1	18.2	18.3	0	0	-	OK
Wider Site R11	09/03/23	14:21	BH201	S	GL	3.46		4.86	-	-	985	F	-0.04	-	0.1	0.1	0.1	0.8	0.8	21.0	20.9	0	0	-	OK
Wider Site R11	13/03/23	12:19	BH202	S	GL	1.30		5.16	-	-	984	F	0.19	-	0.1	0.1	0.1	0.5	0.5	20.6	20.6	0	0	-	OK
Wider Site R11	09/03/23	12:51	CP301	S	GL	2.36		4.74	-	-	986	F	0.37	-	0.1	0.1	0.1	1.6	1.6	19.5	19.5	0	0	-	SILT
Wider Site R11	09/03/23	12:41	CP302	S	GL	1.96		4.10	-	-	986	F	-0.04	-	0.1	0.1	0.1	1.0	1.0	20.3	20.2	0	0	-	OK
Wider Site R11	09/03/23	14:57	CP303	S	GL	3.29		4.05	-	-	984	F	0.05	-	0.1	0.1	0.1	0.6	0.6	21.0	21.0	0	0	-	OK
Wider Site R11	09/03/23	14:41	CP304	S	GL	3.03		4.05	-	-	985	F	0.05	-	0.1	0.1	0.1	0.7	0.7	21.1	20.8	0	0	-	OK
Wider Site R11	09/03/23	14:08	CP305	S	GL	3.08		4.72	-	-	985	F	0.04	-	0.1	0.1	0.1	1.2	1.2	20.5	20.4	0	0	-	OK
Wider Site R11	13/03/23	12:12	RO301	S	GL	0.34		7.72	-	-	984	F	0.44	-	0.1	0.1	0.1	0.3	0.4	20.2	20.1	1	0	-	OK
Wider Site R11	13/03/23	12:07	RO302	S	GL	0.15		3.16	-	-	984	F	-0.14	-	-0.1	0.1	0.1	0.1	0.1	21.1	20.9	0	0	-	OK
Wider Site R11	14/03/23	14:54	RO303	S	GL	0.18		3.54	-	-	1004	R	-0.18	-	0.1	0.1	0.1	0.1	0.1	20.9	20.8	0	0	-	OK
Wider Site R11	14/03/23	14:49	RO304	S	GL	0.32		8.04	-	-	1004	R	0.02	-	0.1	0.1	0.1	0.3	0.3	20.2	20.2	1	0	-	SILT
Wider Site R11	14/03/23	13:37	RO305	S	GL	0.13		2.38	-	-	1004	R	38.20	-	1.5	0.1	0.1	1.3	1.3	17.2	17.2	3	0	-	OK
Wider Site R11	09/03/23	13:30	RO306	S	GL	0.76		5.55	-	-	986	F	11.37	-	0.1	0.1	0.1	1.1	1.1	19.5	19.4	3	0	-	OK
Wider Site R11	09/03/23	13:36	RO307	S	GL	1.38		5.13	-	-	985	F	0.26	-	0.1	0.1	0.1	0.5	0.6	21.2	21.1	0	0	-	OK
Wider Site R11	09/03/23	13:42	RO307A	S	GL	1.39		2.16	-	-	985	F	0.02	-	0.1	0.1	0.1	0.4	0.4	21.4	21.0	1	0	-	OK
Wider Site R11	10/03/23	12:01	RO309	S	GL	5.05		5.60	-	-	998	R	0.12	-	0.1	0.1	0.1	1.0	1.0	20.2	20.2	0	0	-	OK
Wider Site R11	10/03/23	12:07	RO309A	S	GL	4.13	D*	4.23	-	-		R	-0.02	-	0.1	0.1	0.1	0.9	0.9	20.4	20.2	0	0	-	OK
Wider Site R11	10/03/23	11:50	RO310	S	GL	4.10		6.08	-	-	998	R	4.10	-	0.1	0.1	0.1	1.5	1.5	19.9	19.8	0	0	-	OK
Wider Site R11	10/03/23	11:34	RO311	S	GL	1.09		5.09	-	-	997	R	0.12	-	0.1	0.1	0.1	0.3	0.5	21.4	21.3	0	0	-	OK
Wider Site R11	10/03/23	11:21	RO312	S	GL	3.66		9.44	-	-	997	R	0.69	-	0.1	0.1	0.1	0.4	0.4	20.6	20.6	2	0	-	OK
Wider Site R11	10/03/23	11:28	RO312A	S	GL	2.12	D	2.12	-	-	997	R	0.11	-	0.1	0.1	0.1	0.3	0.4	21.3	21.0	0	0	-	DRY
Wider Site R11	10/03/23	12:15	RO313	S	GL	3.18		4.47	-	-	999	R	0.86	-	0.1	0.1	0.1	2.9	2.9	17.2	17.2	0	0	-	OK
Wider Site R11	10/03/23	12:20	RO313A	S	GL	0.79	D	0.79	-	-	999	R	0.09	-	0.1	0.1	0.1	0.8	0.9	19.6	19.3	0	0	-	DRY
Wider Site R11	10/03/23	12:49	RO314	S	GL	0.75		4.66	-	-	1000	R	15.71	-	0.3	0.1	0.1	1.6	1.6	18.2	18.2	9	0	-	OK
Wider Site R11	09/03/23	15:26	RO315	S	GL	0.19		5.03	-	-	985	F	79.12	-	1.5	0.1	0.1	1.6	1.6	4.0	4.0	1	0	-	FLOODED AROUND STANDPIPE
Wider Site R11	09/03/23	15:04	RO316	S	GL	2.29		5.47	-	-	985	F	0.32	-	0.1	0.1	0.1	0.7	0.7	19.6	19.6	2	0	-	OK
Wider Site R11	09/03/23	15:08	RO316A	S	GL	1.16		1.31	-	-	985	F	0.11	-	0.1	0.1	0.1	0.2	0.2	21.2	21.1	0	0	-	OK
Wider Site R11	10/03/23	12:59	RO317	S	GL	0.23		7.45	-	-	1000	R	0.30	-	0.1	0.1	0.1	0.5	0.6	20.2	20.2	1	0	-	OK
Wider Site R11	10/03/23	13:34	RO318	S	GL	0.50		5.84	-	-	1000	R	7.26	-	0.3	0.1	0.1	1.9	1.9	15.5	15.5	3	0	-	FLOODED AROUND STANDPIPE
Wider Site R11	10/03/23	13:38	RO318A	S	GL	0.42		4.17	-	-	1000	R	0.97	-	0.1	0.1	0.1	1.7	1.7	18.7	18.6	1	0	-	OK

Monitoring round			Well Details			Water/NAPL Monitoring (m below datum)					Pressure and flow (use < for below LoD)					Gas Concentrations (use < for below LoD)							Local conditions		
Round Reference	Date	Time	Well ID	Single or dual gas tap (S/D)	Datum Type (Casing / GL)	Depth to water	"D" denotes dry hole	Depth to Base of Hole	Depth to LNAPL	Depth to DNAPL	Atm. pressure (hPa)	Atm. pressure falling (F) / rising (R) / steady (S)	Relative BH pressure (hPa)	Initial Gas Flow (L/hr)	Steady Gas Flow (L/hr)	CH <sub>4</sub> (%v/v) - (Initial)	CH <sub>4</sub> (%v/v) - (Steady)	CO <sub>2</sub> (%v/v) - (Initial)	CO <sub>2</sub> (%v/v) - (Steady)	O <sub>2</sub> (%v/v) - (Initial)	O <sub>2</sub> (%v/v) - (Steady)	CO (ppm)	H <sub>2</sub> S (ppm)	VOC (as ppm using PID)	Notes on condition of borehole (including any)
Wider Site R11	10/03/23	11:56	WS203	S	GL	2.69	D	2.69	-	-	998	R	-0.05	-	0.1	0.1	0.1	0.7	0.7	20.8	20.8	0	0	-	DRY
Wider Site R11	10/03/23	12:26	WS204	S	GL	2.91	D	3.11	-	-	1000	R	-0.04	-	0.1	0.1	0.1	1.0	1.0	18.4	18.4	0	0	-	DRY
Wider Site R11	10/03/23	11:44	WS205	S	GL	2.46		3.14	-	-	997	R	4.83	-	0.3	0.1	0.1	2.9	2.9	16.0	16.0	0	1	-	OK
Wider Site R11	10/03/23	12:34	WS206	S	GL	1.52		2.04	-	-	1000	R	0.05	-	0.1	0.1	0.1	1.9	1.9	19.2	19.3	0	0	-	SILT
Wider Site R11	10/03/23	13:05	WS207	S	GL	2.26		2.50	-	-	1000	R	0.62	-	0.1	0.1	0.1	2.4	2.4	18.8	19.0	0	5	-	OK
Wider Site R11	10/03/23	13:21	WS208	S	GL	3.45		3.84	-	-	1000	R	21.12	-	0.3	0.1	0.1	3.7	3.7	17.1	17.1	1	3	-	SILT
Wider Site R11	10/03/23	11:14	WS209	S	GL	2.89		3.00	-	-	997	R	1.23	-	0.2	0.1	0.1	1.6	1.6	19.4	19.4	0	0	-	OK
Wider Site R11	10/03/23	14:48	WS210	S	GL	2.83		3.09	-	-	1002	R	23.40	-	0.5	0.1	0.1	1.8	1.8	16.0	16.2	0	0	-	SILT
Wider Site R11	09/03/23	12:59	WS211	S	GL	0.98		1.95	-	-	985	F	4.23	-	0.2	0.1	0.1	2.5	2.5	17.4	17.4	1	0	-	OK
Wider Site R11	09/03/23	13:53	WS213	S	GL	0.41	D	2.03	-	-	985	F	0.00	-	0.1	0.1	0.1	0.6	0.6	21.0	21.0	3	0	-	DRY
Wider Site R11	09/03/23	14:52	WS214	S	GL	2.03	D	2.03	-	-	984	F	0.02	-	0.1	0.1	0.1	1.1	1.1	20.5	20.8	3	0	-	DRY
Wider Site R11	10/03/23	13:59	WS215	S	GL	1.05		1.05	-	-	1001	R	17.24	-	0.3	0.1	0.1	1.6	1.6	15.4	15.4	0	3	-	OK
Wider Site R11	09/03/23	12:23	WS216	S	GL	0.44		3.01	-	-	-	F	-0.05	-	0.1	0.1	0.1	1.0	1.0	20.0	20.0	1	0	-	OK
Wider Site R11	09/03/23	14:02	WS217	S	GL	1.52	D	4.22	-	-	985	F	0.02	-	0.1	0.1	0.1	1.2	1.2	21.0	21.3	0	0	-	DRY
Wider Site R11	09/03/23	14:46	WS218	S	GL	0.34	D	2.20	-	-	984	F	-0.12	-	0.1	0.1	0.1	1.0	1.0	20.6	21.0	0	0	-	DRY
Wider Site R11	13/03/23	11:35	WS219	S	GL	0.19		2.21	-	-	983	F	-0.02	-	0.1	0.1	0.1	1.6	1.6	19.5	19.6	0	0	-	OK
Wider Site R11	13/03/23	11:49	WS220	S	GL	1.01		3.01	-	-	983	F	13.84	-	0.2	0.1	0.1	1.1	1.1	17.9	17.9	0	2	-	OK
Wider Site R11	09/03/23	12:30	WS221	S	GL	0.26	D	2.60	-	-	986	F	-0.25	-	0.1	0.1	0.1	1.2	1.2	19.9	20.2	2	0	-	DRY
Wider Site R11	09/03/23	14:34	WS222	S	GL	2.34	D	3.56	-	-	985	F	-0.07	-	0.1	0.1	0.1	1.0	1.0	20.5	20.6	0	0	-	DRY
Wider Site R11	13/03/23	11:28	WS223	S	GL	3.65	D*	3.65	-	-	983	F	-0.07	-	0.1	0.1	0.1	0.5	0.5	20.2	20.2	0	0	-	OK
Wider Site R11	14/03/23	15:00	WS224	S	GL	1.00		1.00	-	-	1004	R	0.11	-	0.1	0.1	0.1	0.5	0.5	20.5	20.6	0	0	-	OK
Wider Site R11	09/03/23	12:36	WS225	S	GL	0.26	D	2.54	-	-	986	F	-0.05	-	0.1	0.1	0.1	0.9	0.9	20.2	20.7	9	0	-	DRY
Wider Site R11	09/03/23	14:15	WS226	S	GL	3.13	D	4.06	-	-	985	F	0.00	-	0.1	0.1	0.1	0.6	0.6	21.1	21.4	1	0	-	DRY
Wider Site R11	09/03/23	14:29	WS227	S	GL	2.09	D	2.09	-	-	985	F	0.16	-	0.1	0.1	0.1	0.8	0.8	20.9	21.2	2	0	-	DRY
Wider Site R11	13/03/23	12:32	WS230	S	GL	1.81	D	1.81	-	-	983	F	-0.05	-	0.1	0.1	0.1	0.6	0.6	20.4	20.4	0	0	-	DRY
Wider Site R11	13/03/23	13:48	WS231	S	GL	3.32		4.99	-	-	983	F	0.09	-	0.1	0.1	0.1	3.9	3.5	15.0	18.4	1	0	-	OK
Wider Site R11	14/03/23	12:00	WS231	S	GL	0.92		3.01	-	-	1004	R	0.07	-	0.1	0.1	0.1	0.6	0.6	18.7	18.7	3	2	-	SILT
Wider Site R11	13/03/23	14:45	WS232	S	GL	2.04		2.04	-	-	984	F	2.45	-	0.2	0.1	0.1	0.7	0.7	19.7	19.7	1	1	-	OK
Wider Site R11	14/03/23	15:08	WS233	S	GL	2.50		2.50	-	-	1004	R	0.11	-	0.1	0.1	0.1	0.6	0.5	20.4	20.4	1	0	-	OK
Wider Site R11	14/03/23	14:33	WS239	S	GL	1.91		2.01	-	-	1004	R	-2.64	-	-0.8	0.1	0.1	1.2	1.2	17.2	17.2	4	3	-	OK
Wider Site R11	14/03/23	14:39	WS240	S	GL	0.47		1.39	-	-	1004	R	-2.31	-	-0.6	0.1	0.1	1.3	1.3	18.0	18.0	3	2	-	OK
Wider Site R11	14/03/23	13:03	WS241	S	GL	2.05		2.05	-	-	1003	R	0.09	-	0.1	0.1	0.1	0.9	0.9	20.2	20.2	0	1	-	OK
Wider Site R11	14/03/23	14:21	WS248	S	GL	1.18		1.18	-	-		R	2.86	-	0.9	0.1	0.1	0.8	0.8	16.5	16.5	0	3	-	OK
Wider Site R11	14/03/23	13:56	WS249	S	GL	2.77		2.77	-	-	1004	R	-4.23	-	0.1	0.1	0.1	1.3	1.3	20.2	20.3	0	1	-	OK
Wider Site R11	14/03/23	14:08	WS250	S	GL	1.09		1.09	-	-	1004	R	2.31	-	0.2	0.1	0.1	2.6	2.6	16.7	16.8	0	1	-	OK
Wider Site R11	14/03/23	13:14	WS251	S	GL	2.61		4.97	-	-	1003	R	-0.78	-	-0.1	0.1	0.1	1.6	1.6	17.3	17.3	0	2	-	OK
Wider Site R11	14/03/23	13:42	WS252	S	GL	0.26		1.70	-	-	1004	R	0.07	-	0.1	0.1	0.1	0.9	0.9	20.2	20.3	1	1	-	OK
Wider Site R12	05/04/23	11:31	BH01	S	GL	0.17		2.94	-	-	1015	F	-0.05	-	0.1	0.1	0.1	12.5	12.5	6.2	6.2	1	0	-	OK
Wider Site R12	05/04/23	12:01	BH02	S	GL	0.23		2.28	-	-	1015	F	-0.04	-	0.1	0.1	0.1	5.1	5.3	16.8	16.4	1	0	-	SILT
Wider Site R12	05/04/23	11:27	WS01	S	GL	0.25		2.28	-	-	1015	F	0.07	-	0.1	0.1	0.1	4.3	4.3	15.9	15.9	0	0	-	OK
Wider Site R12	05/04/23	11:17	WS02	S	GL	0.17		1.19	-	-	1015	F	0.00	-	0.1	0.1	0.1	2.8	2.9	17.2	15.6	0	0	-	OK
Wider Site R12	05/04/23	11:22	WS03	S	GL	0.63	D	1.97	-	-	1015	F	-0.11	-	0.1	0.1	0.1	11.6	12.2	7.4	7.4	0	0	-	DRY
Wider Site R12	05/04/23	12:05	WS04	S	GL	0.44		1.65	-	-	1015	F	0.05	-	0.1	0.1	0.1	14.5	14.5	2.5	2.5	1	0	-	OK
Wider Site R12	05/04/23	11:36	WS05	S	GL	0.71		1.01	-	-	1015	F	-0.05	-	0.1	0.1	0.1	5.8	5.8	16.0	15.7	0	0	-	OK
Wider Site R12	05/04/23	11:40	WS06	S	GL	0.28		0.90	-	-	1015	F	0.12	-	0.1	0.1	0.1	12.0	12.0	8.9	8.9	0	0	-	OK
Wider Site R12	05/04/23	11:44	WS07	S	GL	0.32		2.00	-	-	1015	F	-0.07	-	0.1	0.1	0.1	2.4	2.6	18.6	17.1	2	0	-	OK
Wider Site R12	05/04/23	11:53	WS08	S	GL	0.22		5.02	-	-	1015	F	0.04	-	0.1	0.1	0.1	7.0	7.0	15.4	15.3	2	0	-	OK
Wider Site R12	05/04/23	11:49	WS09	S	GL	Dry	D*	3.36	-	-	1015	F	-0.05	-	0.1	0.1	0.1	2.9	2.9	18.8	18.5	0	0	-	OK
Wider Site R12	05/04/23	11:13	WS10	S	GL	2.95		3.43	-	-	1015	F	-0.04	-	0.1	0.1	0.1	13.2	13.2	3.3	3.3	0	0	-	OK
Wider Site R12	06/04/23	12:45	BH201	S	GL	3.45		4.88	-	-	1007	F	0.11	-	0.1	0.1	0.1	0.9	0.9	19.8	19.8	0	0	-	OK
Wider Site R12	06/04/23	16:16	BH202	S	GL	1.44		5.16	-	-	1008	F	0.09	-	0.1	0.1	0.1	1.1	1.1	19.5	19.2	0	0	-	OK
Wider Site R12	05/04/23	13:37	BH203	S	GL	2.55		5.12	-	-	1015	F	0.07	-	0.1	0.1	0.1	1.0	1.0	19.1	19.0	0	0	-	OK
Wider Site R12	05/04/23	14:35	BH204	S	GL	1.84		5.28	-	-	1015	F	0.04	-	0.1	0.1	0.1	0.7	0.7	20.9	20.7	0	0	-	OK
Wider Site R12	05/04/23	13:58	BH205	S	GL	0.56		4.41	-	-	1015	F	-15.25	-	-6.0	0.1	0.1	0.8	0.8	17.2	17.2	1	0	-	OK
Wider Site R12	06/04/23	15:34	WS201	S	GL	0.56		1.93	-	-	1008	F	-0.07	-	0.1	0.1	0.1	0.8	2.9	19.8	19.4	0	0	-	OK
Wider Site R12	06/04/23	15:25	WS202	S	GL	0.48		2.02	-	-	1008	F	1.07	-	-4.5	0.1	0.1	1.2	1.2	19.7	19.7	1	0	-	OK
Wider Site R12	06/04/23	14:36	WS203	S	GL	Dry	D	2.02	-	-	1008	F	-0.02	-	0.1	0.1	0.1	0.7	0.7	20.3	20.0	1	0	-	DRY
Wider Site R12	06/04/23	14:12	WS204	S	GL	Dry	D	1.04	-	-	1009	F	-0.02	-	0.1	0.1	0.1	1.0	1.0	18.1	17.9	0	0	-	DRY
Wider Site R12	06/04/23	14:44	WS205	S	GL	0.77		2.99	-	-	1008	F	0.02	-	0.1	0.1	0.1	0.8	0.9	20.5	20.2	1	0	-	OK
Wider Site R12	06/04/23	13:59																							

Monitoring round			Well Details			Water/NAPL Monitoring (m below datum)					Pressure and flow (use < for below LoD)					Gas Concentrations (use < for below LoD)								Local conditions	
Round Reference	Date	Time	Well ID	Single or dual gas tap (S/D)	Datum Type (Casing / GL)	Depth to water	"D" denotes dry hole	Depth to Base of Hole	Depth to LNAPL	Depth to DNAPL	Atm. pressure (hPa)	Atm. pressure falling (F) / rising (R) / steady (S)	Relative BH pressure (hPa)	Initial Gas Flow (L/hr)	Steady Gas Flow (L/hr)	CH <sub>4</sub> (%v/v) - (Initial)	CH <sub>4</sub> (%v/v) - (Steady)	CO <sub>2</sub> (%v/v) - (Initial)	CO <sub>2</sub> (%v/v) - (Steady)	O <sub>2</sub> (%v/v) - (Initial)	O <sub>2</sub> (%v/v) - (Steady)	CO (ppm)	H <sub>2</sub> S (ppm)	VOC (as ppm using PID)	Notes on condition of borehole (including any)
Wider Site R12	06/04/23	15:12	WS213	S	GL	Dry	D*	3.65	-	-	1008	F	0.04	-	0.1	0.1	0.1	0.6	0.6	20.5	20.4	0	0	-	OK
Wider Site R12	06/04/23	15:02	WS214	S	GL	Dry	D	1.00	-	-	1008	F	0.02	-	0.1	0.1	0.1	1.2	1.2	19.4	19.4	0	0	-	DRY
Wider Site R12	06/04/23	13:41	WS215	S	GL	0.34		2.54	-	-	1008	F	2.40	-	0.1	0.1	0.1	1.0	1.0	20.2	20.2	2	0	-	OK
Wider Site R12	06/04/23	12:06	WS216	S	GL	3.14		4.07	-	-	1007	F	0.07	-	0.1	0.1	0.1	1.1	1.1	19.5	19.4	0	0	-	OK
Wider Site R12	06/04/23	12:30	WS217	S	GL	Dry	D	2.08	-	-	1007	F	-0.05	-	0.1	0.1	0.1	1.4	1.4	20.2	19.9	0	0	-	DRY
Wider Site R12	06/04/23	14:56	WS218	S	GL	Dry	D	1.81	-	-	1008	F	-0.09	-	0.1	0.1	0.1	1.1	1.1	19.7	19.6	0	0	-	DRY
Wider Site R12	06/04/23	13:06	WS219	S	GL	1.28		4.99	-	-	1008	F	0.02	-	0.1	0.1	0.1	1.0	1.4	20.3	19.7	0	0	-	OK
Wider Site R12	06/04/23	13:11	WS220	S	GL	0.91		3.01	-	-	1008	F	-0.65	-	0.1	0.1	0.1	0.6	0.6	19.5	19.5	1	0	-	OK
Wider Site R12	06/04/23	12:14	WS221	S	GL	Dry	D	2.03	-	-	1007	F	0.04	-	0.1	0.1	0.1	1.5	1.5	18.8	18.5	0	0	-	DRY
Wider Site R12	06/04/23	12:55	WS222	S	GL	Dry	D	2.49	-	-	1007	F	0.14	-	0.1	0.1	0.1	0.8	0.8	20.1	19.8	0	0	-	DRY
Wider Site R12	06/04/23	13:00	WS223	S	GL	Dry	D*	2.01	-	-	1008	F	0.21	-	0.1	0.1	0.1	0.6	0.6	20.0	19.7	0	0	-	OK
Wider Site R12	04/04/23	15:34	WS224	S	GL	0.78		1.39	-	-	1021	F	0.32	-	0.1	0.1	0.1	0.1	0.1	21.1	21.1	1	0	-	OK
Wider Site R12	06/04/23	12:19	WS225	S	GL	Dry	D	2.04	-	-	1007	F	-0.09	-	0.1	0.1	0.1	1.0	1.0	19.9	19.6	0	0	-	DRY
Wider Site R12	06/04/23	12:39	WS226	S	GL	Dry	D	1.18	-	-	1007	F	-0.07	-	0.1	0.1	0.1	0.9	0.9	20.0	20.0	0	0	-	DRY
Wider Site R12	06/04/23	12:52	WS227	S	GL	Dry	D	2.77	-	-	1007	F	10.34	-	0.1	0.1	0.1	0.8	0.8	20.2	20.2	0	0	-	DRY
Wider Site R12	05/04/23	13:30	WS228	S	GL	Dry	D	1.03	-	-	1015	F	0.02	-	0.1	0.1	0.1	1.0	1.0	20.5	20.2	0	0	-	DRY
Wider Site R12	05/04/23	13:25	WS229	S	GL	Dry	D	1.99	-	-	1014	F	-0.09	-	0.1	0.1	0.1	0.5	0.5	20.6	20.6	0	0	-	DRY
Wider Site R12	06/04/23	16:26	WS230	S	GL	Dry	D	1.09	-	-	1008	F	0.02	-	0.1	0.1	0.1	0.8	0.8	19.7	19.7	0	0	-	DRY
Wider Site R12	05/04/23	11:03	WS231	S	GL	2.44		4.94	-	-	1015	F	-0.02	-	0.1	0.1	0.1	4.2	4.2	15.6	15.5	0	0	-	OK
Wider Site R12	06/04/23	16:02	WS232	S	GL	0.40		2.94	-	-	1008	F	-0.05	-	0.1	0.1	0.1	0.7	0.7	19.7	19.5	0	0	-	OK
Wider Site R12	04/04/23	15:24	WS233	S	GL	0.56		2.28	-	-	1021	F	-0.05	-	0.1	0.1	0.1	0.4	0.4	20.9	20.7	1	0	-	OK
Wider Site R12	04/04/23	15:43	WS234	S	GL	0.23		1.67	-	-	1021	F	1.34	-	0.1	0.1	0.1	0.4	0.4	20.3	20.2	3	0	-	OK
Wider Site R12	05/04/23	13:16	WS237	S	GL	Dry	D	1.38	-	-	1014	F	0.00	-	0.1	0.1	0.1	0.5	0.5	21.1	20.9	0	0	-	DRY
Wider Site R12	05/04/23	12:10	WS238	S	GL	1.61		4.98	-	-	1016	F	-0.02	-	0.1	0.1	0.1	1.4	2.1	19.7	15.5	2	0	-	OK
Wider Site R12	04/04/23	15:07	WS239	S	GL	0.46		2.29	-	-	1021	F	-4.30	-	-2.0	0.1	0.1	0.9	0.9	17.7	17.7	1	0	-	OK
Wider Site R12	04/04/23	15:14	WS240	S	GL	0.41		1.50	-	-	1021	F	-1.16	-	0.1	0.1	0.1	1.1	1.1	19.7	19.6	2	0	-	OK
Wider Site R12	04/04/23	13:15	WS241	S	GL	0.61		1.97	-	-	1021	F	-0.05	-	0.1	0.1	0.1	0.2	0.2	20.6	20.5	1	0	-	OK
Wider Site R12	05/04/23	12:38	WS243	S	GL	Dry	D	1.02	-	-	1015	F	0.00	-	0.1	0.1	0.1	0.7	0.7	20.5	20.4	0	0	-	DRY
Wider Site R12	05/04/23	14:50	WS244	S	GL	0.73		0.95	-	-	1015	F	0.32	-	0.1	0.1	0.1	0.4	0.4	21.4	21.1	2	0	-	OK
Wider Site R12	05/04/23	14:15	WS245	S	GL	0.69		2.54	-	-	1015	F	22.51	-	8.2	0.1	0.1	1.8	1.8	15.7	15.5	1	0	-	OK
Wider Site R12	05/04/23	14:21	WS246	S	GL	0.80		4.48	-	-	1015	F	-0.02	-	0.1	0.1	0.1	0.2	0.2	21.4	20.8	1	0	-	OK
Wider Site R12	05/04/23	14:43	WS247	S	GL	0.29		0.96	-	-	1015	F	0.32	-	0.1	0.1	0.1	0.7	0.7	20.8	20.5	1	0	-	ABOVE GL
Wider Site R12	04/04/23	14:30	WS248	S	GL	0.84		1.65	-	-	1021	F	0.86	-	0.1	0.1	0.1	0.3	0.3	20.1	20.0	2	0	-	OK
Wider Site R12	04/04/23	14:04	WS249	S	GL	Dry	D	1.01	-	-	1021	F	0.05	-	0.1	0.1	0.1	0.5	0.5	20.9	20.7	1	0	-	OK
Wider Site R12	04/04/23	14:20	WS250	S	GL	0.60		0.95	-	-	1021	F	-5.57	-	-2.0	0.1	0.1	1.6	1.6	18.1	18.0	2	0	-	OK
Wider Site R12	04/04/23	13:33	WS251	S	GL	0.29		2.00	-	-	1022	F	-3.98	-	-1.9	0.1	0.1	0.4	0.5	20.3	20.2	0	1	-	OK
Wider Site R12	04/04/23	13:52	WS252	S	GL	0.20		5.03	-	-	1021	F	0.88	-	0.1	0.1	0.1	0.7	0.7	20.3	20.3	1	0	-	OK
Water Only R2	04/04/23	-	CP301	S	GL	2.05		4.70	-	-	-	F	-	-	-	-	-	-	-	-	-	-	-	-	OK
Water Only R2	04/04/23	-	CP302	S	GL	1.94		4.09	-	-	-	F	-	-	-	-	-	-	-	-	-	-	-	-	OK
Water Only R2	04/04/23	-	CP303	S	GL	3.43		4.05	-	-	-	F	-	-	-	-	-	-	-	-	-	-	-	-	OK
Water Only R2	04/04/23	-	CP304	S	GL	3.10		4.05	-	-	-	F	-	-	-	-	-	-	-	-	-	-	-	-	OK
Water Only R2	04/04/23	-	CP305	S	GL	3.24		4.72	-	-	-	F	-	-	-	-	-	-	-	-	-	-	-	-	OK
Water Only R2	04/04/23	-	RO301	S	GL	0.44		9.72	-	-	-	F	-	-	-	-	-	-	-	-	-	-	-	-	OK
Water Only R2	04/04/23	-	RO302	S	GL	0.40		3.16	-	-	-	F	-	-	-	-	-	-	-	-	-	-	-	-	OK
Water Only R2	04/04/23	-	RO303	S	GL	0.51		8.31	-	-	-	F	-	-	-	-	-	-	-	-	-	-	-	-	OK
Water Only R2	04/04/23	-	RO304	S	GL	0.45		3.90	-	-	-	F	-	-	-	-	-	-	-	-	-	-	-	-	OK
Water Only R2	04/04/23	-	RO305	S	GL	0.49		2.35	-	-	-	F	-	-	-	-	-	-	-	-	-	-	-	-	OK
Water Only R2	04/04/23	-	RO306	S	GL	0.85		5.54	-	-	-	F	-	-	-	-	-	-	-	-	-	-	-	-	OK
Water Only R2	04/04/23	-	RO307	S	GL	1.33		5.11	-	-	-	F	-	-	-	-	-	-	-	-	-	-	-	-	OK
Water Only R2	04/04/23	-	RO307A	S	GL	1.41		2.17	-	-	-	F	-	-	-	-	-	-	-	-	-	-	-	-	OK
Water Only R2	04/04/23	-	RO309	S	GL	4.94		5.60	-	-	-	F	-	-	-	-	-	-	-	-	-	-	-	-	OK
Water Only R2	04/04/23	-	RO309A	S	GL	Dry	D*	4.23	-	-	-	F	-	-	-	-	-	-	-	-	-	-	-	-	OK
Water Only R2	04/04/23	-	RO310	S	GL	3.97		6.07	-	-	-	F	-	-	-	-	-	-	-	-	-	-	-	-	OK
Water Only R2	04/04/23	-	RO311	S	GL	1.12		5.09	-	-	-	F	-	-	-	-	-	-	-	-	-	-	-	-	OK
Water Only R2	04/04/23	-	RO312	S	GL	3.61		9.32	-	-	-	F	-	-	-	-	-	-	-	-	-	-	-	-	OK
Water Only R2	04/04/23	-	RO312A	S	GL	Dry	D*	2.11	-	-	-	F	-	-	-	-	-	-	-	-	-	-	-	-	OK
Water Only R2	04/04/23	-	RO313	S	GL	3.31		4.47	-	-	-	F	-	-	-	-	-	-	-	-	-	-	-	-	OK
Water Only R2	04/04/23	-	RO313A	S	GL	Dry	D	0.79	-	-	-	F	-	-	-	-	-	-	-	-	-	-	-	-	DRY
Water Only R2	04/04/23	-	RO314	S	GL	0.68		4.66	-	-	-	F	-	-	-	-	-	-	-	-	-	-	-	-	DAMAGED
Water Only R2	04/04/23	-	RO315	S	GL	0.20		5.03	-	-	-	F	-	-	-	-	-	-	-	-	-	-	-	-	OK
Water Only R2	04/04/23	-	RO316	S	GL	2.04		4.86	-	-	-	F	-	-	-	-	-	-	-	-	-	-	-	-	OK
Water Only R2	04/04/23	-	RO316A	S	GL	1.29		1.32	-	-	-	F	-	-	-	-	-	-	-	-	-	-	-	-	OK
Water Only R2	04/04/23	-	RO317	S	GL	0.37		7.43	-	-	-	F	-	-	-	-	-	-	-	-	-	-	-	-	OK
Water Only R2	04/04/23	-	RO318	S	GL	0.51		5.90	-	-	-	F	-	-	-	-	-	-	-	-	-	-	-	-	OK
Water Only R2	04/04/23	-	RO318A	S	GL	0.88		3.56	-	-	-	F	-	-	-	-	-								

Monitoring round			Well Details			Water/NAPL Monitoring (m below datum)					Pressure and flow (use < for below LoD)					Gas Concentrations (use < for below LoD)							Local conditions			
Round Reference	Date	Time	Well ID	Single or dual gas tap (S/D)	Datum Type (Casing / GL)	Depth to water	"D" denotes dry hole	Depth to Base of Hole	Depth to LNAPL	Depth to DNAPL	Atm. pressure (hPa)	Atm. pressure falling (F) / rising (R) / steady (S)	Relative BH pressure (hPa)	Initial Gas Flow (L/hr)	Steady Gas Flow (L/hr)	CH <sub>4</sub> (%v/v) - (Initial)	CH <sub>4</sub> (%v/v) - (Steady)	CO <sub>2</sub> (%v/v) - (Initial)	CO <sub>2</sub> (%v/v) - (Steady)	O <sub>2</sub> (%v/v) - (Initial)	O <sub>2</sub> (%v/v) - (Steady)	CO (ppm)	H <sub>2</sub> S (ppm)	VOC (as ppm using PID)	Notes on condition of borehole (including any)	
Water Only R2	04/04/23	-	RO319	S	GL	0.47		5.56	-	-	-	F	-	-	-	-	-	-	-	-	-	-	-	-	-	OK
Water Only R2	04/04/23	-	RO320	S	GL	0.38		4.79	-	-	-	F	-	-	-	-	-	-	-	-	-	-	-	-	-	OK
Water Only R2	04/04/23	-	RO321	S	GL	0.76		3.91	-	-	-	F	-	-	-	-	-	-	-	-	-	-	-	-	-	SILT
Water Only R2	04/04/23	-	RO321A	S	GL	0.77		2.03	-	-	-	F	-	-	-	-	-	-	-	-	-	-	-	-	-	OK
Water Only R2	04/04/23	-	WS235	S	GL	-		-	-	-	-	F	-	-	-	-	-	-	-	-	-	-	-	-	-	
Water Only R2	04/04/23	-	WS236	S	GL	-		-	-	-	-	F	-	-	-	-	-	-	-	-	-	-	-	-	-	
Water Only R2	04/04/23	-	WS242	S	GL	-		-	-	-	-	F	-	-	-	-	-	-	-	-	-	-	-	-	-	
Wider Site R13	12/05/23	13:40	BH201	S	GL	3.29		4.87	-	-	1018	R	0.02	0.1	0.1	0.1	0.1	1.3	1.3	19.5	19.3	0	0	-	-	OK
Wider Site R13	12/05/23	15:31	BH202	S	GL	1.01		5.15	-	-	1019	R	0.11	0.1	0.1	0.1	0.1	0.1	0.1	22.2	21.9	0	0	-	-	OK
Wider Site R13	10/05/23	15:07	BH203	S	GL	2.71		4.99	-	-	1007	R	0.16	0.1	0.1	0.1	0.1	2.1	2.1	17.1	17.1	0	0	-	-	OK
Wider Site R13	10/05/23	16:23	BH204	S	GL	1.67		5.15	-	-	1007	R	0.02	0.1	0.1	0.1	0.1	0.9	0.9	21.1	20.9	0	0	-	-	SILT
Wider Site R13	10/05/23	15:38	BH205	S	GL	0.21		4.12	-	-	1008	R	-5.04	-2.4	-0.2	0.1	0.1	1.4	1.4	18.5	18.4	1	0	-	-	OK
Wider Site R13	15/05/23	11:57	WS201	S	GL	0.64		1.93	-	-	1011	R	0.05	0.1	0.1	0.1	0.1	0.7	0.8	11.6	10.4	0	0	-	-	OK
Wider Site R13	15/05/23	12:08	WS202	S	GL	0.24		2.02	-	-	1011	R	1.07	3.0	2.1	0.1	0.1	0.6	0.6	20.4	20.3	0	0	-	-	OK
Wider Site R13	15/05/23	13:32	WS203	S	GL	2.02	D	2.02	-	-	1011	R	-0.02	0.1	0.1	0.1	0.1	0.7	0.7	20.3	20.0	1	0	-	-	DRY
Wider Site R13	15/05/23	13:12	WS204	S	GL	1.04	D	1.04	-	-	1011	R	-0.02	0.1	0.1	0.1	0.1	1.0	1.0	18.1	17.9	0	0	-	-	DRY
Wider Site R13	15/05/23	13:41	WS205	S	GL	0.51		2.99	-	-	1011	R	0.05	0.1	0.1	0.1	0.1	1.9	1.9	19.3	19.2	0	0	-	-	SILT
Wider Site R13	15/05/23	12:57	WS206	S	GL	1.25		4.19	-	-	1011	R	-0.05	0.1	0.1	0.1	0.1	1.9	1.9	19.8	19.6	0	0	-	-	OK
Wider Site R13	15/05/23	12:50	WS207	S	GL	0.32		2.20	-	-	1011	R	0.07	-4.0	0.1	0.1	0.1	1.3	1.3	20.2	20.1	1	0	-	-	OK
Wider Site R13	15/05/23	12:43	WS208	S	GL	0.57		2.20	-	-	1011	R	1.23	0.2	0.2	0.1	0.1	1.6	1.6	19.4	19.4	0	0	-	-	OK
Wider Site R13	15/05/23	12:14	WS209	S	GL	0.84		3.01	-	-	1011	R	0.09	0.1	0.1	0.1	0.1	2.0	2.0	18.8	18.6	0	0	-	-	OK
Wider Site R13	15/05/23	12:28	WS210	S	GL	0.82		2.57	-	-	1011	R	0.04	0.1	0.1	0.1	0.1	0.1	0.1	21.2	21.1	1	0	-	-	OK
Wider Site R13	15/05/23	11:48	WS211	S	GL	1.43		3.56	-	-	1011	R	0.04	0.1	0.1	0.1	0.1	3.3	3.5	17.4	17.3	0	0	-	-	OK
Wider Site R13	12/05/23	14:16	WS213	S	GL	3.58		3.66	-	-	1018	R	-0.11	0.1	0.1	0.1	0.1	0.7	0.7	20.9	20.7	0	0	-	-	OK
Wider Site R13	12/05/23	14:24	WS214	S	GL	1.00	D	1.00	-	-	1018	R	-0.04	0.1	0.1	0.1	0.1	1.5	1.5	17.8	17.7	0	0	-	-	DRY
Wider Site R13	15/05/23	12:36	WS215	S	GL	0.24		2.54	-	-	1011	R	-0.05	0.1	0.1	0.1	0.1	1.0	1.0	20.2	20.2	0	0	-	-	OK
Wider Site R13	15/05/23	11:21	WS216	S	GL	2.90		4.07	-	-	1011	R	0.02	0.1	0.1	0.1	0.1	1.1	1.1	19.5	19.4	0	0	-	-	OK
Wider Site R13	12/05/23	14:09	WS217	S	GL	2.08	D	2.08	-	-	1018	R	0.04	0.1	0.1	0.1	0.1	1.3	1.3	20.9	20.6	0	0	-	-	DRY
Wider Site R13	12/05/23	14:33	WS218	S	GL	1.81	D	1.81	-	-	1018	R	0.14	0.1	0.1	0.1	0.1	1.5	1.5	19.7	19.4	0	0	-	-	DRY
Wider Site R13	12/05/23	15:02	WS219	S	GL	1.13		4.99	-	-	1019	R	0.00	0.1	0.1	0.1	0.1	1.7	1.7	19.7	19.7	0	0	-	-	OK
Wider Site R13	12/05/23	15:14	WS220	S	GL	0.91		3.02	-	-	1019	R	-0.02	0.1	0.1	0.1	0.1	0.4	0.5	21.4	21.1	0	0	-	-	OK
Wider Site R13	15/05/23	11:30	WS221	S	GL	2.03	D	2.03	-	-	1011	R	0.04	0.1	0.1	0.1	0.1	1.5	1.5	18.8	18.5	0	0	-	-	DRY
Wider Site R13	12/05/23	13:51	WS222	S	GL	2.49	D	2.49	-	-	1018	R	0.02	0.1	0.1	0.1	0.1	1.4	1.4	19.6	19.4	0	0	-	-	DRY
Wider Site R13	12/05/23	14:42	WS223	S	GL	1.82		2.01	-	-	1019	R	0.11	0.1	0.1	0.1	0.1	0.5	0.5	21.2	20.9	0	0	-	-	OK
Wider Site R13	11/05/23	11:48	WS224	S	GL	0.40		1.39	-	-	1010	R	0.19	0.1	0.1	0.1	0.1	0.2	0.2	21.1	21.0	1	0	-	-	OK
Wider Site R13	15/05/23	11:36	WS225	S	GL	2.04	D	2.04	-	-	1011	R	-0.09	0.1	0.1	0.1	0.1	1.0	1.0	19.9	19.6	0	0	-	-	DRY
Wider Site R13	15/05/23		WS226	S	GL	1.18	D	1.18	-	-	1011	R	-0.07	0.1	0.1	0.1	0.1	0.9	0.9	20.0	20.0	0	0	-	-	DRY
Wider Site R13	12/05/23	13:44	WS227	S	GL	2.77	D	2.77	-	-	1018	R	-0.25	0.1	0.1	0.1	0.1	1.0	1.0	19.9	19.8	0	0	-	-	DRY
Wider Site R13	10/05/23	14:55	WS228	S	GL	1.00		1.00	-	-	1007	R	-0.09	0.1	0.1	0.1	0.1	1.4	1.4	19.4	19.1	0	0	-	-	DRY
Wider Site R13	10/05/23	14:44	WS229	S	GL	1.94		1.94	-	-	1007	R	-0.02	0.1	0.1	0.1	0.1	0.7	0.7	20.0	19.7	0	0	-	-	OK
Wider Site R13	12/05/23	13:27	WS230	S	GL	1.08	D	1.08	-	-	1018	R	0.16	0.1	0.1	0.1	0.1	1.1	1.1	19.5	19.3	0	0	-	-	DRY
Wider Site R13	10/05/23	11:48	WS231	S	GL	2.36		4.96	-	-	1007	R	0.12	0.1	0.1	0.1	0.1	3.8	3.9	16.8	16.8	0	0	-	-	OK
Wider Site R13	12/05/23	15:21	WS232	S	GL	0.19		2.93	-	-	1019	R	-0.12	0.1	0.1	0.1	0.1	0.3	0.3	21.8	21.6	0	0	-	-	OK
Wider Site R13	11/05/23	11:33	WS233	S	GL	0.18		2.28	-	-	1011	R	-0.04	0.1	0.1	0.1	0.1	0.1	0.1	21.3	20.8	0	0	-	-	OK
Wider Site R13	11/05/23	12:04	WS234	S	GL	0.17		1.67	-	-	1011	R	7.21	3.0	0.2	0.1	0.1	0.7	0.7	19.6	19.4	6	0	-	-	OK
Wider Site R13	15/05/23	10:45	WS235	S	GL	1.20		5.06	-	-	1011	R	0.02	0.2	0.1	0.1	0.1	1.6	1.7	17.5	17.5	0	0	-	-	OK
Wider Site R13	15/05/23	10:30	WS236	S	GL	2.00	D	2.00	-	-	1011	R	-0.02	0.2	0.1	0.1	0.1	0.6	0.6	19.9	19.9	0	0	-	-	DRY
Wider Site R13	10/05/23	14:32	WS237	S	GL	1.01	D	1.01	-	-	1007	R	0.12	0.1	0.1	0.1	0.1	0.7	0.7	20.5	20.3	0	0	-	-	DRY
Wider Site R13	10/05/23	13:42	WS238	S	GL	1.89		5.06	-	-	1007	R	0.00	0.1	0.1	0.1	0.1	1.2	2.3	20.4	15.8	2	0	-	-	OK
Wider Site R13	11/05/23	11:18	WS239	S	GL	0.17		2.28	-	-	1011	R	-4.13	-2.1	-0.8	0.1	0.1	0.6	0.6	19.7	19.7	0	0	-	-	OK
Wider Site R13	11/05/23	11:25	WS240	S	GL	0.14		1.19	-	-	1011	R	2.75	0.3	0.8	0.1	0.1	0.9	0.9	20.3	20.1	2	0	-	-	OK
Wider Site R13	11/05/23	12:50	WS241	S	GL	0.63		1.97	-	-	1010	R	-0.11	0.1	0.1	0.1	0.1	0.1	0.1	21.5	21.3	1	0	-	-	OK
Wider Site R13	15/05/23	10:59	WS242	S	GL	0.45		3.65	-	-	1011	R	7.94	-4.9	0.1	0.1	0.1	2.6	2.7	18.0	17.9	1	0	-	-	OK
Wider Site R13	10/05/23	14:06	WS243	S	GL	1.01	D	1.01	-	-	1007	R	0.14	0.1	0.1	0.1	0.1	1.2	1.2	20.4	20.2	0	0	-	-	DRY
Wider Site R13	10/05/23	17:02	WS244	S	GL	0.27		0.88	-	-	1008	R	18.85	7.3	0.1	0.1	0.1	0.8	0.8	20.7	20.7	3	0	-	-	OK
Wider Site R13	10/05/23	15:51	WS245	S	GL	0.31		2.52	-	-	1007	R	6.98	3.4	0.2	0.1	0.1	1.7	1.7	17.3	17.3	4	0	-	-	SILT
Wider Site R13	10/05/23	16:02	WS246	S	GL	0.85		4.55	-	-	1008	R	-0.05	0.1	0.1	0.1	0.1	0.1	0.1	22.1	21.8	0	0	-	-	SILT
Wider Site R13	10/05/23	16:45	WS247	S	GL	0.00		0.89	-	-	1008	R	9.84	3.8	0.1	0.1	0.1	1.2	1.2	18.5	18.4	4	0	-	-	ABOVE GROUND LEVEL
Wider Site R13	11/05/23	14:08	WS248	S	GL	0.43																				

Monitoring round			Well Details			Water/NAPL Monitoring (m below datum)					Pressure and flow (use < for below LoD)					Gas Concentrations (use < for below LoD)								Local conditions	
Round Reference	Date	Time	Well ID	Single or dual gas tap (S/D)	Datum Type (Casing / GL)	Depth to water	"D" denotes dry hole	Depth to Base of Hole	Depth to LNAPL	Depth to DNAPL	Atm. pressure (hPa)	Atm. pressure falling (F) / rising (R) / steady (S)	Relative BH pressure (hPa)	Initial Gas Flow (L/hr)	Steady Gas Flow (L/hr)	CH <sub>4</sub> (%v/v) - (Initial)	CH <sub>4</sub> (%v/v) - (Steady)	CO <sub>2</sub> (%v/v) - (Initial)	CO <sub>2</sub> (%v/v) - (Steady)	O <sub>2</sub> (%v/v) - (Initial)	O <sub>2</sub> (%v/v) - (Steady)	CO (ppm)	H <sub>2</sub> S (ppm)	VOC (as ppm using PID)	Notes on condition of borehole (including any)
Water Only R3	11/05/23	-	CP303	S	GL	3.16		4.01	-	-	-	R	-	-	-	-	-	-	-	-	-	-	-	-	OK
Water Only R3	11/05/23	-	CP304	S	GL	2.87		4.06	-	-	-	R	-	-	-	-	-	-	-	-	-	-	-	-	OK
Water Only R3	11/05/23	-	CP305	S	GL	2.84		4.72	-	-	-	R	-	-	-	-	-	-	-	-	-	-	-	-	OK
Water Only R3	11/05/23	-	RO301	S	GL	0.30		7.69	-	-	-	R	-	-	-	-	-	-	-	-	-	-	-	-	OK
Water Only R3	11/05/23	-	RO302	S	GL	0.17		3.15	-	-	-	R	-	-	-	-	-	-	-	-	-	-	-	-	OK
Water Only R3	11/05/23	-	RO303	S	GL	0.11		3.53	-	-	-	R	-	-	-	-	-	-	-	-	-	-	-	-	OK
Water Only R3	11/05/23	-	RO304	S	GL	0.28		8.00	-	-	-	R	-	-	-	-	-	-	-	-	-	-	-	-	OK
Water Only R3	11/05/23	-	RO305	S	GL	0.35		2.38	-	-	-	R	-	-	-	-	-	-	-	-	-	-	-	-	OK
Water Only R3	11/05/23	-	RO306	S	GL	0.69		5.54	-	-	-	R	-	-	-	-	-	-	-	-	-	-	-	-	OK
Water Only R3	11/05/23	-	RO307	S	GL	1.18		5.11	-	-	-	R	-	-	-	-	-	-	-	-	-	-	-	-	OK
Water Only R3	11/05/23	-	RO307A	S	GL	1.20		2.17	-	-	-	R	-	-	-	-	-	-	-	-	-	-	-	-	OK
Water Only R3	11/05/23	-	RO309	S	GL	4.77		5.60	-	-	-	R	-	-	-	-	-	-	-	-	-	-	-	-	OK
Water Only R3	11/05/23	-	RO309A	S	GL	4.13		4.23	-	-	-	R	-	-	-	-	-	-	-	-	-	-	-	-	OK
Water Only R3	11/05/23	-	RO310	S	GL	3.89		6.27	-	-	-	R	-	-	-	-	-	-	-	-	-	-	-	-	OK
Water Only R3	11/05/23	-	RO311	S	GL	1.00		5.09	-	-	-	R	-	-	-	-	-	-	-	-	-	-	-	-	OK
Water Only R3	11/05/23	-	RO312	S	GL	3.56		9.32	-	-	-	R	-	-	-	-	-	-	-	-	-	-	-	-	OK
Water Only R3	11/05/23	-	RO312A	S	GL	2.04		2.11	-	-	-	R	-	-	-	-	-	-	-	-	-	-	-	-	OK
Water Only R3	11/05/23	-	RO313	S	GL	2.89		4.47	-	-	-	R	-	-	-	-	-	-	-	-	-	-	-	-	OK
Water Only R3	11/05/23	-	RO313A	S	GL	0.79	D	0.79	-	-	-	R	-	-	-	-	-	-	-	-	-	-	-	-	DRY
Water Only R3	11/05/23	-	RO314	S	GL	0.68		4.66	-	-	-	R	-	-	-	-	-	-	-	-	-	-	-	-	DAMAGED
Water Only R3	11/05/23	-	RO315	S	GL	0.19		5.03	-	-	-	R	-	-	-	-	-	-	-	-	-	-	-	-	OK
Water Only R3	11/05/23	-	RO316	S	GL	2.09		4.86	-	-	-	R	-	-	-	-	-	-	-	-	-	-	-	-	OK
Water Only R3	11/05/23	-	RO316A	S	GL	0.99		1.32	-	-	-	R	-	-	-	-	-	-	-	-	-	-	-	-	OK
Water Only R3	11/05/23	-	RO317	S	GL	0.34		7.43	-	-	-	R	-	-	-	-	-	-	-	-	-	-	-	-	OK
Water Only R3	11/05/23	-	RO318	S	GL	0.50		5.90	-	-	-	R	-	-	-	-	-	-	-	-	-	-	-	-	OK
Water Only R3	11/05/23	-	RO318A	S	GL	0.48		3.16	-	-	-	R	-	-	-	-	-	-	-	-	-	-	-	-	OK
Water Only R3	11/05/23	-	RO319	S	GL	0.46		5.56	-	-	-	R	-	-	-	-	-	-	-	-	-	-	-	-	OK
Water Only R3	11/05/23	-	RO320	S	GL	0.31		4.79	-	-	-	R	-	-	-	-	-	-	-	-	-	-	-	-	OK
Water Only R3	11/05/23	-	RO321	S	GL	0.73		3.91	-	-	-	R	-	-	-	-	-	-	-	-	-	-	-	-	SILT
Water Only R3	11/05/23	-	RO321A	S	GL	0.76		2.03	-	-	-	R	-	-	-	-	-	-	-	-	-	-	-	-	OK
Wider Site R14	07/06/23	16:04	BH201	S	GL	3.12		4.89	-	-	1019	S	-0.05	0.1	0.1	0.1	0.1	1.1	1.1	20.5	20.2	0	0	-	OK
Wider Site R14	09/06/23	15:31	BH202	S	GL	2.10		5.11	-	-	1019	S	0.11	0.1	0.1	0.1	0.1	0.1	0.1	22.2	21.9	0	0	-	OK
Wider Site R14	06/06/23	15:07	BH203	S	GL	0.77		5.10	-	-	1019	S	0.16	0.1	0.1	0.1	0.1	2.1	2.1	17.1	17.1	0	0	-	OK
Wider Site R14	06/06/23	16:23	BH204	S	GL	1.55		5.03	-	-	1019	S	0.02	0.1	0.1	0.1	0.1	0.9	0.9	21.1	20.9	0	0	-	SILT
Wider Site R14	06/06/23	15:38	BH205	S	GL	0.25		4.16	-	-	1019	S	-5.04	-2.4	-0.2	0.1	0.1	1.4	1.4	18.5	18.4	1	0	-	OK
Wider Site R14	05/06/23	13:08	WS201	S	GL	1.84		1.95	-	-	1019	S	0.05	0.1	0.1	0.1	0.1	1.1	1.2	12.7	12.3	0	0	-	OK
Wider Site R14	05/06/23	13:21	WS202	S	GL	0.70		2.03	-	-	1020	S	-2.57	-0.3	0.1	0.1	0.1	0.5	0.5	19.7	19.5	0	0	-	OK
Wider Site R14	05/06/23	13:52	WS203	S	GL	2.02	D	2.02	-	-	1019	S	0.14	0.1	0.1	0.1	0.1	1.0	1.1	20.2	19.9	0	0	-	DRY
Wider Site R14	05/06/23	14:12	WS204	S	GL	1.05	D	1.05	-	-	1019	S	0.00	0.1	0.1	0.1	0.1	3.4	3.8	18.2	17.9	0	0	-	DRY
Wider Site R14	05/06/23	13:40	WS205	S	GL	0.67		3.00	-	-	1020	S	0.14	0.1	0.1	0.1	0.1	0.2	0.2	21.2	21.0	1	0	-	OK
Wider Site R14	05/06/23	14:21	WS206	S	GL	1.66		4.16	-	-	1019	S	0.12	0.1	0.1	0.1	0.1	2.5	2.5	19.7	19.5	0	0	-	OK
Wider Site R14	05/06/23	14:35	WS207	S	GL	0.70		-0.24	-	-	1020	S	0.05	0.1	0.1	0.1	0.1	0.3	0.3	21.5	20.7	1	0	-	OK
Wider Site R14	05/06/23	15:03	WS208	S	GL	0.47		2.22	-	-	1020	S	-19.45	-7.2	-0.2	0.1	0.1	1.6	1.8	19.4	19.2	3	0	-	OK
Wider Site R14	05/06/23	16:08	WS209	S	GL	1.05		3.00	-	-	1019	S	0.07	0.1	0.1	0.1	0.1	0.0	0.1	21.7	21.1	1	0	-	OK
Wider Site R14	05/06/23	15:43	WS210	S	GL	0.57		2.58	-	-	1019	S	-14.03	-5.8	-0.1	0.1	0.1	0.6	0.6	20.6	20.4	1	0	-	OK
Wider Site R14	05/06/23	12:59	WS211	S	GL	2.22		3.56	-	-	1019	S	0.02	0.1	0.1	0.1	0.1	2.9	2.9	17.9	17.9	0	0	-	OK
Wider Site R14	09/06/23	14:16	WS213	S	GL	3.65	D	3.65	-	-	1018	S	-0.11	0.1	0.1	0.1	0.1	0.7	0.7	20.9	20.7	0	0	-	DRY
Wider Site R14	09/06/23	14:24	WS214	S	GL	1.01	D	1.01	-	-	1018	S	-0.04	0.1	0.1	0.1	0.1	1.5	1.5	17.8	17.7	0	0	-	DRY
Wider Site R14	07/06/23	13:42	WS216	S	GL	2.97		4.09	-	-	1019	S	-0.19	0.1	0.1	0.1	0.1	1.5	1.5	18.9	18.6	0	0	-	OK
Wider Site R14	09/06/23	14:09	WS217	S	GL	2.08	D	2.08	-	-	1018	S	0.04	0.1	0.1	0.1	0.1	1.3	1.3	20.9	20.6	0	0	-	DRY
Wider Site R14	09/06/23	14:33	WS218	S	GL	1.81	D	1.81	-	-	1018	S	0.14	0.1	0.1	0.1	0.1	1.5	1.5	19.7	19.4	0	0	-	DRY
Wider Site R14	09/06/23	15:02	WS219	S	GL	1.55		4.99	-	-	1019	S	0.00	0.1	0.1	0.1	0.1	1.7	1.7	19.7	19.7	0	0	-	OK
Wider Site R14	09/06/23	15:14	WS220	S	GL	1.22		3.00	-	-	1019	S	-0.02	0.1	0.1	0.1	0.1	0.4	0.5	21.4	21.1	0	0	-	OK
Wider Site R14	07/06/23	13:48	WS221	S	GL	2.03	D	2.03	-	-	1019	S	-0.09	0.1	0.1	0.1	0.1	1.1	1.1	19.9	19.8	0	1	-	DRY
Wider Site R14	09/06/23	13:51	WS222	S	GL	2.49	D	2.49	-	-	1018	S	0.02	0.1	0.1	0.1	0.1	1.4	1.4	19.6	19.4	0	0	-	DRY
Wider Site R14	09/06/23	14:42	WS223	S	GL	1.91		2.01	-	-	1019	S	0.11	0.1	0.1	0.1	0.1	0.5	0.5	21.2	20.9	0	0	-	OK
Wider Site R14	08/06/23	11:48	WS224	S	GL	0.66		1.39	-	-	1019	S	0.19	0.1	0.1	0.1	0.1	0.2	0.2	21.1	21.0	1	0	-	OK
Wider Site R14	07/06/23	13:55	WS225	S	GL	2.04	D	2.04	-	-	1019	S	0.23	0.1	0.1	0.1	0.1	1.3	1.3	19.6	19.5	0	0	-	DRY
Wider Site R14	07/06/23	16:15	WS226	S	GL	1.18	D	1.18	-	-	1019	S	-0.07	0.1	0.1	0.1	0.1	0.9	0.9	20.0	20.0	0	0	-	DRY
Wider Site R14	09/06/23	13:44	WS227	S	GL	2.77	D	2.77	-	-	1018	S	-0.25	0.1	0.1	0.1	0.1	1.0	1.0	19.9	19.8	0	0	-	DRY
Wider Site R14	06/06/23	14:55	WS228	S	GL	1.95	D	1.95	-	-	1019	S	-0.09	0.1	0.1	0.1	0.1	1.4	1.4	19.4	19.1	0	0	-	DRY
Wider Site R14	06/06/23	14:44	WS229	S	GL	1.07	D	1.07	-	-	1019	S	-0.02	0.1	0.1	0.1	0.1	0.7	0.7	20.0	19.7	0	0	-	DRY
Wider Site R14	07/06/23	15:52	WS230	S	GL	1.46	D	1.46	-	-	1018	S	0.05	0.1	0.1	0.1	0.1	0.0	0.0	21.2	21.0	0	0	-	DRY
Wider Site R14	06/06/23	11:48	WS231	S	GL	3.07		4.98	-	-	1010	S	0.12	0.1	0.1	0.1	0.1	3.8	3.9	16.8	16.8	0	0	-	OK
Wider Site R14	09/06/23	15:21	WS232	S	GL	0.71		2.95	-																

Monitoring round			Well Details			Water/NAPL Monitoring (m below datum)					Pressure and flow (use < for below LoD)					Gas Concentrations (use < for below LoD)								Local conditions	
Round Reference	Date	Time	Well ID	Single or dual gas tap (S/D)	Datum Type (Casing / GL)	Depth to water	"D" denotes dry hole	Depth to Base of Hole	Depth to LNAPL	Depth to DNAPL	Atm. pressure (hPa)	Atm. pressure falling (F) / rising (R) / steady (S)	Relative BH pressure (hPa)	Initial Gas Flow (L/hr)	Steady Gas Flow (L/hr)	CH <sub>4</sub> (%v/v) - (Initial)	CH <sub>4</sub> (%v/v) - (Steady)	CO <sub>2</sub> (%v/v) - (Initial)	CO <sub>2</sub> (%v/v) - (Steady)	O <sub>2</sub> (%v/v) - (Initial)	O <sub>2</sub> (%v/v) - (Steady)	CO (ppm)	H <sub>2</sub> S (ppm)	VOC (as ppm using PID)	Notes on condition of borehole (including any)
Wider Site R14	08/06/23	11:33	WS233	S	GL	0.72		1.95	-	-	1019	S	-0.04	0.1	0.1	0.1	0.1	0.1	0.1	21.3	20.8	0	0	-	OK
Wider Site R14	08/06/23	12:04	WS234	S	GL	0.82		1.67	-	-	1019	S	7.21	3.0	0.2	0.1	0.1	0.7	0.7	19.6	19.4	6	0	-	OK
Wider Site R14	07/06/23	14:22	WS235	S	GL	0.87		4.94	-	-	1019	S	-0.16	0.1	0.1	0.1	0.1	0.7	0.9	19.9	19.0	1	0	-	OK
Wider Site R14	07/06/23	14:14	WS236	S	GL	1.98	D	1.98	-	-	1019	S	-0.07	0.1	0.1	0.1	0.1	3.2	3.5	16.7	16.7	2	0	-	DRY
Wider Site R14	06/06/23	14:32	WS237	S	GL	1.37	D	1.37	-	-	1020	S	0.12	0.1	0.1	0.1	0.1	0.7	0.7	20.5	20.3	0	0	-	DRY
Wider Site R14	06/06/23	13:42	WS238	S	GL	1.98		4.98	-	-	1020	S	0.00	0.1	0.1	0.1	0.1	1.2	2.3	20.4	15.8	2	0	-	OK
Wider Site R14	08/06/23	11:18	WS239	S	GL	0.76		2.29	-	-	1019	S	-4.13	-2.1	-0.8	0.1	0.1	0.6	0.6	19.7	19.7	0	0	-	OK
Wider Site R14	08/06/23	12:50	WS241	S	GL	1.17		1.97	-	-	1019	S	-0.11	0.1	0.1	0.1	0.1	0.1	0.1	21.5	21.3	1	0	-	OK
Wider Site R14	07/06/23	14:40	WS242	S	GL	0.45		3.53	-	-	1020	S	-14.90	-5.6	-0.1	0.1	0.1	0.9	0.9	13.0	13.0	36	0	-	OK
Wider Site R14	06/06/23	14:06	WS243	S	GL	1.02	D	1.02	-	-	1020	S	0.14	0.1	0.1	0.1	0.1	1.2	1.2	20.4	20.2	0	0	-	DRY
Wider Site R14	06/06/23	17:02	WS244	S	GL	0.88		0.95	-	-	1019	S	18.85	7.3	0.1	0.1	0.1	0.8	0.8	20.7	20.7	3	0	-	OK
Wider Site R14	06/06/23	15:51	WS245	S	GL	0.74		2.16	-	-	1019	S	6.98	3.4	0.2	0.1	0.1	1.7	1.7	17.3	17.3	4	0	-	SILT
Wider Site R14	06/06/23	16:02	WS246	S	GL	1.09		4.49	-	-	1019	S	-0.05	0.1	0.1	0.1	0.1	0.1	0.1	22.1	21.8	0	0	-	SILT
Wider Site R14	06/06/23	16:45	WS247	S	GL	0.21		0.96	-	-	1019	S	9.84	3.8	-0.1	0.1	0.1	1.2	1.2	18.5	18.4	4	0	-	OK
Wider Site R14	08/06/23	14:08	WS248	S	GL	0.92		1.66	-	-	1019	S	2.15	0.2	0.4	0.1	0.1	0.6	0.6	20.2	20.0	5	0	-	OK
Wider Site R14	08/06/23	13:43	WS249	S	GL	0.98	D	0.98	-	-	1019	S	0.02	0.1	0.1	0.1	0.1	3.1	3.1	16.8	16.8	1	0	-	DRY
Wider Site R14	08/06/23	13:57	WS250	S	GL	0.90	D	0.90	-	-	1019	S	7.53	2.8	0.5	0.1	0.1	3.3	3.3	15.6	15.5	1	0	-	DRY
Wider Site R14	08/06/23	13:14	WS251	S	GL	0.62		2.00	-	-	1019	S	-3.58	-1.7	0.1	0.1	0.1	0.3	0.4	21.1	20.7	0	0	-	OK
Wider Site R14	08/06/23	13:30	WS252	S	GL	0.70		4.97	-	-	1019	S	-0.12	0.1	0.1	0.1	0.1	0.2	0.2	21.9	21.7	0	0	-	OK
Water Only R4	05/06/23	-	CP301	S	GL	2.16		4.71	-	-	-	S	-	-	-	-	-	-	-	-	-	-	-	-	silt
Water Only R4	07/06/23	-	CP302	S	GL	1.85		4.12	-	-	-	S	-	-	-	-	-	-	-	-	-	-	-	-	-
Water Only R4	09/06/23	-	CP303	S	GL	2.95		4.01	-	-	-	S	-	-	-	-	-	-	-	-	-	-	-	-	-
Water Only R4	09/06/23	-	CP304	S	GL	2.97		4.08	-	-	-	S	-	-	-	-	-	-	-	-	-	-	-	-	-
Water Only R4	09/06/23	-	CP305	S	GL	2.94		4.72	-	-	-	S	-	-	-	-	-	-	-	-	-	-	-	-	-
Water Only R4	09/06/23	-	RO301	S	GL	0.26		7.47	-	-	-	S	-	-	-	-	-	-	-	-	-	-	-	-	-
Water Only R4	09/06/23	-	RO302	S	GL	0.70		3.18	-	-	-	S	-	-	-	-	-	-	-	-	-	-	-	-	-
Water Only R4	08/06/23	-	RO303	S	GL	0.77		3.63	-	-	-	S	-	-	-	-	-	-	-	-	-	-	-	-	-
Water Only R4	08/06/23	-	RO304	S	GL	0.50		7.98	-	-	-	S	-	-	-	-	-	-	-	-	-	-	-	-	-
Water Only R4	09/06/23	-	RO305	S	GL	0.40		2.40	-	-	-	S	-	-	-	-	-	-	-	-	-	-	-	-	-
Water Only R4	05/06/23	-	RO306	S	GL	0.73		5.44	-	-	-	S	-	-	-	-	-	-	-	-	-	-	-	-	-
Water Only R4	05/06/23	-	RO307	S	GL	1.36		5.17	-	-	-	S	-	-	-	-	-	-	-	-	-	-	-	-	-
Water Only R4	05/06/23	-	RO307A	S	GL	1.36		2.20	-	-	-	S	-	-	-	-	-	-	-	-	-	-	-	-	-
Water Only R4	05/06/23	-	RO309A	S	GL	4.24		4.34	-	-	-	S	-	-	-	-	-	-	-	-	-	-	-	-	-
Water Only R4	05/06/23	-	RO309	S	GL	4.96		5.60	-	-	-	S	-	-	-	-	-	-	-	-	-	-	-	-	-
Water Only R4	05/06/23	-	RO310	S	GL	3.93		5.91	-	-	-	S	-	-	-	-	-	-	-	-	-	-	-	-	-
Water Only R4	05/06/23	-	RO311	S	GL	1.09		5.05	-	-	-	S	-	-	-	-	-	-	-	-	-	-	-	-	-
Water Only R4	05/06/23	-	RO312A	S	GL	2.21	D	2.21	-	-	-	S	-	-	-	-	-	-	-	-	-	-	-	-	DRY
Water Only R4	05/06/23	-	RO312	S	GL	3.59		9.39	-	-	-	S	-	-	-	-	-	-	-	-	-	-	-	-	silt
Water Only R4	05/06/23	-	RO313	S	GL	3.44		4.64	-	-	-	S	-	-	-	-	-	-	-	-	-	-	-	-	-
Water Only R4	05/06/23	-	RO313A	S	GL	0.78	D	0.78	-	-	-	S	-	-	-	-	-	-	-	-	-	-	-	-	DRY
Water Only R4	05/06/23	-	RO314	S	GL	0.90		4.60	-	-	-	S	-	-	-	-	-	-	-	-	-	-	-	-	-
Water Only R4	09/06/23	-	RO315	S	GL	0.30		4.61	-	-	-	S	-	-	-	-	-	-	-	-	-	-	-	-	-
Water Only R4	09/06/23	-	RO316A	S	GL	1.22		1.41	-	-	-	S	-	-	-	-	-	-	-	-	-	-	-	-	-
Water Only R4	09/06/23	-	RO316	S	GL	2.24		5.46	-	-	-	S	-	-	-	-	-	-	-	-	-	-	-	-	-
Water Only R4	05/06/23	-	RO317	S	GL	0.63		7.59	-	-	-	S	-	-	-	-	-	-	-	-	-	-	-	-	-
Water Only R4	05/06/23	-	RO318	S	GL	0.68		5.90	-	-	-	S	-	-	-	-	-	-	-	-	-	-	-	-	-
Water Only R4	05/06/23	-	RO318A	S	GL	0.67		4.16	-	-	-	S	-	-	-	-	-	-	-	-	-	-	-	-	ANTS
Water Only R4	05/06/23	-	RO319	S	GL	0.66		5.56	-	-	-	S	-	-	-	-	-	-	-	-	-	-	-	-	-
Water Only R4	09/06/23	-	RO320	S	GL	0.53		5.09	-	-	-	S	-	-	-	-	-	-	-	-	-	-	-	-	-
Water Only R4	09/06/23	-	RO321	S	GL	0.87		3.89	-	-	-	S	-	-	-	-	-	-	-	-	-	-	-	-	silt
Water Only R4	09/06/23	-	RO321A	S	GL	0.79		2.04	-	-	-	S	-	-	-	-	-	-	-	-	-	-	-	-	-
Water Only R4	08/06/23	-	WS240	S	GL	0.00		0.00	-	-	-	S	-	-	-	-	-	-	-	-	-	-	-	-	Mower damaged - no pipe to test
Water Only R4	05/06/23	-	WS215	S	GL	0.00		0.00	-	-	-	S	-	-	-	-	-	-	-	-	-	-	-	-	Vandalism - pipe damaged

### CIRIA Ground Gas Risk Assessment

Number of Monitoring Rounds	11
Number of Locations	13

Max CH <sub>4</sub>	Worst Case Flow
0.3	0.3

Worst Case Site GSV CH <sub>4</sub>
0.0009

Number of Readings	78
Number of Readings with Flow Rate	78

Max CO <sub>2</sub>	Worst Case Flow
16.3	0.3

Worst Case Site GSV CO <sub>2</sub>
0.0489

	CH <sub>4</sub>	CO <sub>2</sub>
	Visit GSVs	Visit GSVs
CS1	60	60
CS2	0	0
CS3	0	0
CS4	0	0
CS5	0	0
CS6	0	0

Flooded Well - Groundwater level above screen

Negative Flow Converted to positive for calculation purposes

Location	Strata	Date	Pressure Trend	Relative Pressure	Flow Rate (l/hr)	Atmos. Pressure	CH <sub>4</sub> (% vol)		(%LEL)		CO <sub>2</sub> (% vol)		O <sub>2</sub> (% vol)		Visit GSV – CH <sub>4</sub>	Visit GSV – CO <sub>2</sub>
							Initial	Steady	Initial	Steady	Initial	Steady	Initial	Steady		
BH01	Oxford Clay Formation / Kellways Sand Member	24/08/21	R	0.14	0.2	1023	0.1	0.1	2.0	2.0	13.0	13.0	8.4	8.4	-	-
		07/09/21	F	0.07	0.2	1014	0.1	0.1	2.0	2.0	11.6	11.6	9.0	9.0	-	-
		14/09/21	F	-0.12	0.1	1004	0.1	0.1	2.0	2.0	11.5	11.5	9.7	9.7	-	-
		21/09/21	R	0.05	0.1	1023	0.1	0.1	2.0	2.0	9.9	9.9	12.3	12.3	-	-
		28/09/21	R	0.04	0.1	1006	0.1	0.1	2.0	2.0	13.6	12.0	11.5	11.5	-	-
BH02	Oxford Clay Formation / Kellways Sand Member	05/10/21	R	0.16	0.1	993	0.1	0.1	2.0	2.0	15.1	15.1	9.7	9.7	-	-
		24/08/21	R	0.00	0.2	1023	0.1	0.1	2.0	2.0	8.8	8.7	12.2	12.3	-	-
		07/09/21	F	0.02	0.1	1015	0.1	0.1	2.0	2.0	9.7	9.7	11.8	11.9	-	-
		14/09/21	F	0.00	0.1	1005	0.1	0.1	2.0	2.0	10.6	10.6	11.8	11.8	-	-
		21/09/21	R	-0.04	0.1	1024	0.1	0.1	2.0	2.0	6.1	6.1	15.6	15.6	-	-
BH03	Oxford Clay Formation / Kellways Sand Member	28/09/21	R	0.09	0.1	1007	0.1	0.1	2.0	2.0	5.6	5.6	16.4	16.5	-	-
		05/10/21	R	-0.07	0.2	994	0.1	0.1	2.0	2.0	3.9	3.9	18.3	18.4	-	-
		24/08/21	R	0.02	0.2	1025	0.1	0.1	2.0	2.0	14.8	14.7	5.9	5.9	-	-
		07/09/21	F	0.05	-0.5	1014	0.1	0.1	2.0	2.0	8.0	8.0	12.7	12.7	-	-
		14/09/21	F	0.07	-1.3	1004	0.1	0.1	2.0	2.0	8.1	8.1	13.3	13.4	-	-
WS01	Landfill	21/09/21	R	0.05	-1	1024	0.1	0.1	2.0	2.0	5.5	5.5	15.7	15.8	-	-
		28/09/21	R	0.04	-0.2	1007	0.1	0.1	2.0	2.0	5.7	5.7	15.6	15.7	-	-
		05/10/21	R	0.09	0.2	993	0.1	0.1	2.0	2.0	5.1	5.1	16.2	16.2	-	-
		24/08/21	R	0.05	0.2	1023	0.1	0.1	2.0	2.0	12.8	12.8	9.6	9.6	0.0002	0.0256
		07/09/21	F	0.02	0.2	1014	0.1	0.1	2.0	2.0	13.3	13.3	10.7	10.7	0.0002	0.0266
WS02	River Terrace Deposits	14/09/21	F	-0.09	0.1	1004	0.1	0.1	2.0	2.0	11.3	11.3	12.8	12.8	0.0001	0.0113
		21/09/21	R	-0.35	0.1	1023	0.1	0.1	2.0	2.0	6.6	6.6	15.3	15.3	0.0001	0.0066
		28/09/21	R	-0.16	0.1	1006	0.1	0.1	2.0	2.0	2.5	2.5	19.4	19.4	0.0001	0.0025
		05/10/21	R	0.09	0.2	992	0.1	0.1	2.0	2.0	3.2	3.2	18.5	18.6	0.0002	0.0064
		24/08/21	R	0.02	0.3	1025	0.1	0.1	2.0	2.0	3.2	3.2	17.4	17.5	0.0003	0.0096
WS03	Landfill	07/09/21	F	0.25	0.2	1015	0.1	0.1	2.0	2.0	3.8	3.8	16.9	16.9	0.0002	0.0076
		14/09/21	F	-0.07	0.2	1005	0.1	0.1	2.0	2.0	3.7	3.7	17.6	17.7	0.0002	0.0074
		21/09/21	R	0.00	0.2	1025	0.1	0.1	2.0	2.0	4.4	4.4	16.6	16.6	0.0002	0.0088
		28/09/21	R	0.04	0.1	1007	0.1	0.1	2.0	2.0	4.8	4.8	17.0	17.1	0.0001	0.0048
		05/10/21	R	0.09	0.1	994	0.1	0.1	2.0	2.0	6.1	5.9	15.4	15.4	0.0001	0.0059
WS03	Landfill	24/08/21	R	0.02	0.3	1024	0.1	0.1	2.0	2.0	8.9	8.9	12.5	12.5	0.0003	0.0267
		07/09/21	F	0.05	0.2	1015	0.1	0.1	2.0	2.0	9.0	9.0	11.6	11.6	0.0002	0.0180
		14/09/21	F	0.14	0.1	1005	0.1	0.1	2.0	2.0	7.3	7.3	14.6	14.6	0.0001	0.0073
		21/09/21	R	0.02	0.2	1024	0.1	0.1	2.0	2.0	8.5	8.5	12.5	12.5	0.0002	0.0170
		28/09/21	R	0.21	0.2	1007	0.1	0.1	2.0	2.0	9.5	9.5	12.9	13.0	0.0002	0.0190
05/10/21	R	0.11	0.2	994	0.1	0.1	2.0	2.0	10.4	10.4	10.5	10.6	0.0002	0.0208		

### CIRIA Ground Gas Risk Assessment



Location	Strata	Date	Pressure Trend	Relative Pressure	Flow Rate (l/hr)	Atmos. Pressure	CH <sub>4</sub> (% vol)		(%LEL)		CO <sub>2</sub> (% vol)		O <sub>2</sub> (% vol)		Visit GSV – CH <sub>4</sub>	Visit GSV – CO <sub>2</sub>
							Initial	Steady	Initial	Steady	Initial	Steady	Initial	Steady		
WS04	Landfill	24/08/21	R	0.00	0.2	1024	0.3	0.3	6.0	6.0	15.5	15.5	1.8	1.8	0.0006	0.0310
		07/09/21	F	0.02	0.2	1015	0.2	0.2	4.0	4.0	16.3	16.3	1.1	1.1	0.0004	0.0326
		14/09/21	F	-0.25	0.1	1005	0.3	0.3	6.0	6.0	14.1	14.1	4.1	4.1	0.0003	0.0141
		21/09/21	R	0.12	0.2	1025	0.1	0.1	2.0	2.0	5.3	5.3	13.1	13.2	0.0002	0.0106
		28/09/21	R	0.07	0.1	1007	0.1	0.1	2.0	2.0	6.4	6.4	12.5	12.5	0.0001	0.0064
		05/10/21	R	0.05	0.2	994	0.1	0.1	2.0	2.0	4.3	4.3	15.9	15.9	0.0002	0.0086
WS05	Landfill	24/08/21	R	0.04	0.3	1023	0.1	0.1	2.0	2.0	8.2	8.2	12.8	12.8	0.0003	0.0246
		07/09/21	F	0.02	0.1	1014	0.1	0.1	2.0	2.0	4.2	4.2	16.3	16.4	0.0001	0.0042
		14/09/21	F	-0.04	0.1	1004	0.1	0.1	2.0	2.0	4.8	4.8	16.5	16.5	0.0001	0.0048
		21/09/21	R	-0.07	0.1	1023	0.1	0.1	2.0	2.0	4.3	4.3	16.7	16.7	0.0001	0.0043
		28/09/21	R	0.02	0.1	1007	0.1	0.1	2.0	2.0	1.1	0.4	17.8	20.3	0.0001	0.0004
		05/10/21	R	0.07	0.2	993	0.1	0.1	2.0	2.0	4.6	1.7	17.5	19.1	0.0002	0.0034
WS06	Landfill	24/08/21	R	0.07	0.1	1024	0.1	0.1	2.0	2.0	8.5	8.4	12.0	12.0	0.0001	0.0084
		07/09/21	F	-0.04	0.1	1014	0.1	0.1	2.0	2.0	7.1	7.1	12.8	12.8	0.0001	0.0071
		14/09/21	F	0.12	0.1	1004	0.1	0.1	2.0	2.0	6.0	6.0	14.9	14.9	0.0001	0.0060
		21/09/21	R	-0.07	0.1	1024	0.1	0.1	2.0	2.0	7.1	7.0	13.5	13.6	0.0001	0.0070
		28/09/21	R	0.04	0.2	1007	0.1	0.1	2.0	2.0	5.2	5.2	15.6	15.6	0.0002	0.0104
		05/10/21	R	-0.05	0.1	993	0.1	0.1	2.0	2.0	7.5	7.4	13.8	13.8	0.0001	0.0074
WS07	Landfill	24/08/21	R	0.12	0.2	1025	0.1	0.1	2.0	2.0	3.1	3.1	16.5	17.5	0.0002	0.0062
		07/09/21	F	0.04	0.2	1015	0.1	0.1	2.0	2.0	3.9	3.9	16.4	16.4	0.0002	0.0078
		14/09/21	F	0.02	0.1	1004	0.1	0.1	2.0	2.0	3.4	3.4	17.5	17.5	0.0001	0.0034
		21/09/21	R	0.02	0.2	1024	0.1	0.1	2.0	2.0	3.1	3.1	17.6	17.6	0.0002	0.0062
		28/09/21	R	0.04	0.2	1007	0.1	0.1	2.0	2.0	2.4	2.4	18.8	18.8	0.0002	0.0048
		05/10/21	R	0.07	0.2	993	0.1	0.1	2.0	2.0	1.8	1.8	19.2	19.4	0.0002	0.0036
WS08	Landfill	24/08/21	R	0.02	0.2	1025	0.1	0.1	2.0	2.0	7.5	7.5	14.8	14.8	0.0002	0.0150
		07/09/21	F	-0.05	0.1	1015	0.1	0.1	2.0	2.0	7.2	7.2	14.4	14.5	0.0001	0.0072
		14/09/21	F	0.02	0.1	1005	0.1	0.1	2.0	2.0	7.2	7.2	15.1	15.1	0.0001	0.0072
		21/09/21	R	-0.05	0.2	1024	0.1	0.1	2.0	2.0	7.0	7.0	14.5	14.5	0.0002	0.0140
		28/09/21	R	-0.07	0.1	1007	0.1	0.1	2.0	2.0	5.8	5.8	16.6	16.7	0.0001	0.0058
		05/10/21	R	0.05	0.2	994	0.1	0.1	2.0	2.0	5.7	5.7	15.8	15.8	0.0002	0.0114
WS09	Landfill	24/08/21	R	0.02	0.1	1025	0.1	0.1	2.0	2.0	3.1	3.1	18.3	18.4	0.0001	0.0031
		07/09/21	F	0.07	0.2	1015	0.1	0.1	2.0	2.0	3.2	3.2	17.5	17.5	0.0002	0.0064
		14/09/21	F	-0.11	0.1	1004	0.1	0.1	2.0	2.0	3.4	3.4	18.5	18.5	0.0001	0.0034
		21/09/21	R	-0.12	0.2	1024	0.1	0.1	2.0	2.0	3.3	3.3	17.9	17.9	0.0002	0.0066
		28/09/21	R	-0.05	0.2	1007	0.1	0.1	2.0	2.0	3.5	3.5	18.2	18.3	0.0002	0.0070
		05/10/21	R	0.14	0.2	994	0.1	0.1	2.0	2.0	3.9	3.9	18.0	18.0	0.0002	0.0078
WS10	Landfill	24/08/21	R	0.04	0.2	1024	0.1	0.1	2.0	2.0	6.1	6.1	12.4	12.4	0.0002	0.0122
		07/09/21	F	0.02	0.2	1015	0.1	0.1	2.0	2.0	3.7	3.6	14.4	15.7	0.0002	0.0072
		14/09/21	F	-0.05	0.1	1005	0.1	0.1	2.0	2.0	9.1	4.0	13.6	15.9	0.0001	0.0040
		21/09/21	R	0.07	0.2	1025	0.1	0.1	2.0	2.0	3.5	3.5	16.3	16.3	0.0002	0.0070
		28/09/21	R	0.05	0.2	1007	0.1	0.1	2.0	2.0	5.4	5.4	14.8	14.9	0.0002	0.0108
		05/10/21	R	0.02	0.2	994	0.1	0.1	2.0	2.0	1.0	1.0	19.4	20.3	0.0002	0.0020



# Hydrock Bulk Gases Ternary Plot Analysis



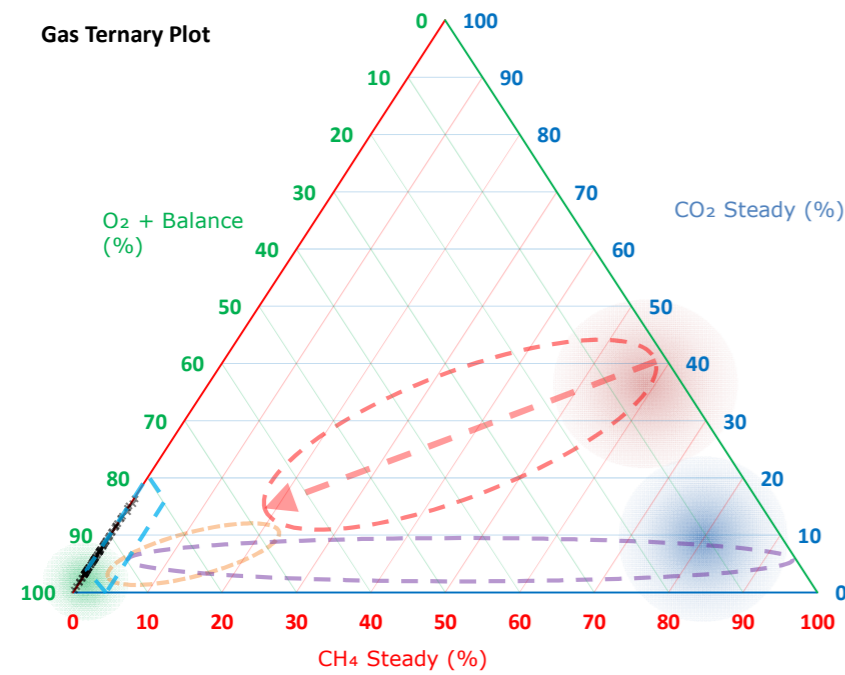
Client:	Oxford University Development Ltd.
Site Name:	Begbroke
Contract Number:	C-19114-C
Assessment Date:	08/10/2021

Screened Strata:	All Data
Site Zone:	

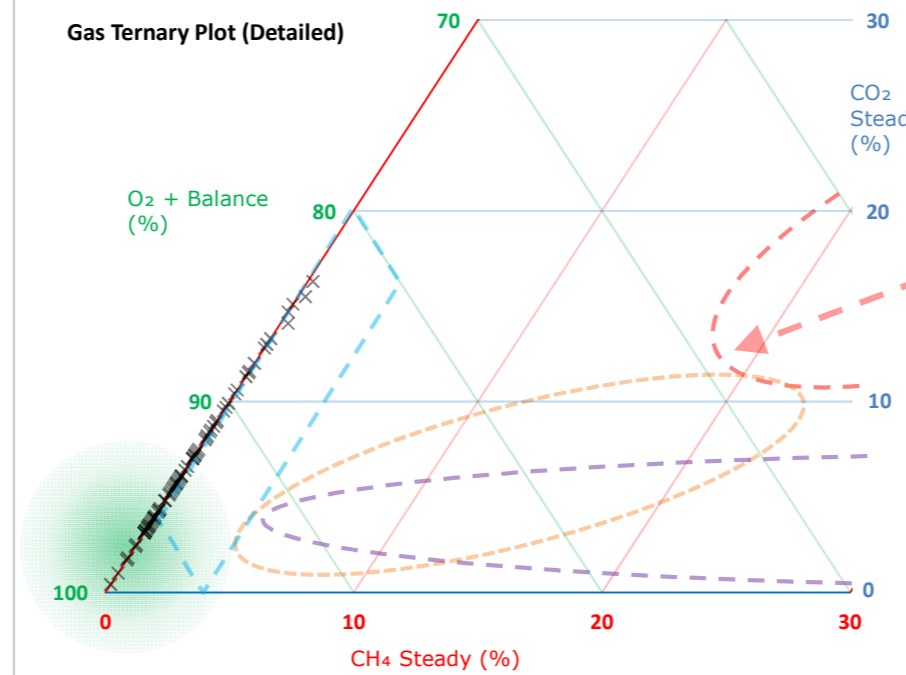
## Locations

BEGBH001	BEGBH002	BEGBH003	BEGWS001	BEGWS002	BEGWS003	BEGWS004	BEGWS005	BEGWS006	BEGWS007	BEGWS008	BEGWS009	BEGWS010
(blank)												

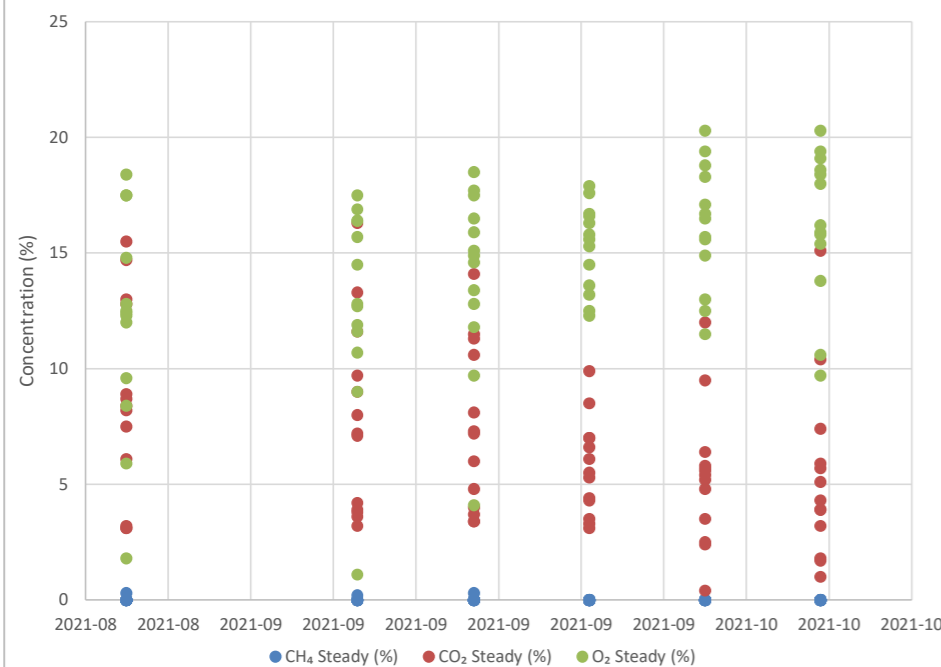
Gas Ternary Plot



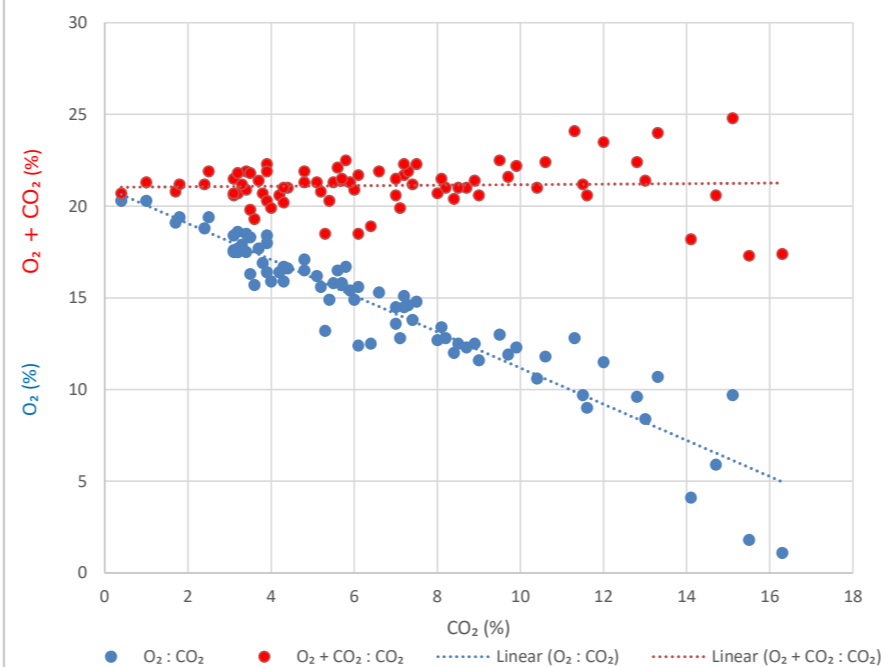
Gas Ternary Plot (Detailed)



Bulk Gases Time-Plot



CO<sub>2</sub> / O<sub>2</sub> relationship



## Key:

	Indicative of landfill gas migration (assuming source composition 60% methane / 40% carbon dioxide) as it displaces air from the ground. Assumes no chemical changes. Below 20% methane and 13% carbon dioxide relationship for landfill gas migration unclear. Arrow shows direction of dilution with fresh air
	Microbial respiration of organic material in soil. Zero methane and low flow. (Direct consumption of oxygen to produce carbon dioxide)
	Potentially indicative of methane outgassing from groundwater to borehole headspace (Hydrock dataset).
	Potentially indicative of microbial degradation of LNAPL vapours in unsaturated zone. (Hydrock dataset)
	Indicative of a landfill gas source (e.g 60% CH <sub>4</sub> / 40% CO <sub>2</sub> )
	Indicative of geogenic gas (e.g mine-workings)
	Fresh air

## Additional Notes

A direct linear downwards relationship between CO<sub>2</sub> and O<sub>2</sub> indicates depletion of oxygen to produce carbon dioxide via microbial respiration using the following equation: CH<sub>2</sub>O + O<sub>2</sub> -> CO<sub>2</sub> + H<sub>2</sub>O In this scenario CO<sub>2</sub> + O<sub>2</sub> should be around 21% (i.e. the O<sub>2</sub> concentration in the atmosphere)

There may also be trace amounts of methane up to about 3% caused by anaerobic decomposition in small anaerobic hotspots or the reduction of carbon dioxide by methanogens. Oxygen concentrations may be depleted but in this scenario oxygen deficient air is not likely to be emitted quickly from the ground and it does not pose a risk.

After: Wilson et al, 2018. Ground Gas Information Sheet No. 1  
Hydrock datasets (methane outgassing / LNAPL vapour degradation)

## Appendix F Contamination Test Results and GQRA

## *Contamination Test Results*

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Croxley Green  
Business Park,  
Watford,  
Herts,  
WD18 8YS

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e: reception@i2analytical.com

## **Analytical Report Number : 23-17130**

<b>Project / Site name:</b>	Begbroke	<b>Samples received on:</b>	10/02/2023
<b>Your job number:</b>	19114	<b>Samples instructed on/ Analysis started on:</b>	10/02/2023
<b>Your order number:</b>	PO24069	<b>Analysis completed by:</b>	22/02/2023
<b>Report Issue Number:</b>	1	<b>Report issued on:</b>	22/02/2023
<b>Samples Analysed:</b>	8 soil samples		

**Signed:** 

Joanna Wawrzeczko  
Reporting Specialist  
**For & on behalf of i2 Analytical Ltd.**

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting

Excel copies of reports are only valid when accompanied by this PDF certificate.

Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement. Application of uncertainty of measurement would provide a range within which the true result lies. An estimate of measurement uncertainty can be provided on request.

Analytical Report Number: 23-17130  
 Project / Site name: Begbroke  
 Your Order No: PO24069

Lab Sample Number	2582360	2582361	2582362	2582363	2582364			
Sample Reference	TP317	TP315	TP303	TP304	TP309			
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied			
Depth (m)	0.10	0.50	0.10	0.80	0.10			
Date Sampled	02/02/2023	02/02/2023	02/02/2023	31/01/2023	06/02/2023			
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied			
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	22	16	15	16	21
Total mass of sample received	kg	0.001	NONE	1	1	1	1	1

Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	DSO	DSO	DSO	DSO	DSO

#### General Inorganics

pH - Automated	pH Units	N/A	MCERTS	7.8	8	8	8.1	7
Free Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Water Soluble SO <sub>4</sub> 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.011	0.019	0.0031	0.0053	0.0051
Fraction Organic Carbon (FOC) Automated	N/A	0.001	MCERTS	0.033	0.0039	0.015	0.0043	0.031

#### Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
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#### Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Chrysene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	< 0.05	< 0.05	-	-	-
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	< 0.05	< 0.05	-	-	-
Benzo(b)fluoranthene & Benzo(k)fluoranthene	mg/kg	0.1	ISO 17025	-	-	< 0.1	< 0.1	< 0.1
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05

#### Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80
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Analytical Report Number: 23-17130  
 Project / Site name: Begbroke  
 Your Order No: PO24069

Lab Sample Number	2582360				2582361	2582362	2582363	2582364
Sample Reference	TP317				TP315	TP303	TP304	TP309
Sample Number	None Supplied				None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)	0.10				0.50	0.10	0.80	0.10
Date Sampled	02/02/2023				02/02/2023	02/02/2023	31/01/2023	06/02/2023
Time Taken	None Supplied				None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					

**Heavy Metals / Metalloids**

Element	mg/kg	1	MCERTS	15	32	35	62	21
Arsenic (aqua regia extractable)	mg/kg	0.06	MCERTS	0.93	1.1	1.1	1.6	0.95
Beryllium (aqua regia extractable)	mg/kg	0.2	MCERTS	0.4	0.3	0.8	< 0.2	1
Boron (water soluble)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Cadmium (aqua regia extractable)	mg/kg	1.8	MCERTS	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8
Chromium (hexavalent)	mg/kg	1	NONE	32	40	40	49	34
Chromium (III)	mg/kg	1	MCERTS	33	40	41	50	34
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	13	9.4	19	16	15
Copper (aqua regia extractable)	mg/kg	1	MCERTS	22	12	160	18	21
Lead (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Mercury (aqua regia extractable)	mg/kg	1	MCERTS	17	31	28	58	19
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	49	70	70	89	51
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	58	41	65	89	55
Zinc (aqua regia extractable)	mg/kg	1	MCERTS					

**Monoaromatics & Oxygenates**

Compound	µg/kg	5	MCERTS	< 5.0	-	< 5.0	-	< 5.0
Benzene	µg/kg	5	MCERTS	< 5.0	-	< 5.0	-	< 5.0
Toluene	µg/kg	5	MCERTS	< 5.0	-	< 5.0	-	< 5.0
Ethylbenzene	µg/kg	5	MCERTS	< 5.0	-	< 5.0	-	< 5.0
p & m-xylene	µg/kg	5	MCERTS	< 5.0	-	< 5.0	-	< 5.0
o-xylene	µg/kg	5	MCERTS	< 5.0	-	< 5.0	-	< 5.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	NONE	< 5.0	-	< 5.0	-	< 5.0

**Petroleum Hydrocarbons**

TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.001	NONE	< 0.001	-	< 0.001	-	< 0.001
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.001	NONE	< 0.001	-	< 0.001	-	< 0.001
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.001	NONE	< 0.001	-	< 0.001	-	< 0.001
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	-	< 1.0	-	< 1.0
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	-	< 2.0	-	< 2.0
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	< 8.0	-	< 8.0	-	< 8.0
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	< 8.0	-	< 8.0	-	< 8.0
TPH-CWG - Aliphatic >EC16 - EC35	mg/kg	10	MCERTS	< 10	-	< 10	-	< 10
TPH-CWG - Aliphatic >EC35 - EC44	mg/kg	8.4	NONE	< 8.4	-	< 8.4	-	< 8.4
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	NONE	< 10	-	< 10	-	< 10
TPH-CWG - Aliphatic (EC5 - EC44)	mg/kg	10	NONE	< 10	-	< 10	-	< 10

TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.001	NONE	< 0.001	-	< 0.001	-	< 0.001
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.001	NONE	< 0.001	-	< 0.001	-	< 0.001
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.001	NONE	< 0.001	-	< 0.001	-	< 0.001
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	-	< 1.0	-	< 1.0
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	-	< 2.0	-	< 2.0
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	< 10	-	< 10	-	< 10
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	< 10	-	< 10	-	< 10
TPH-CWG - Aromatic >EC35 - EC44	mg/kg	8.4	NONE	< 8.4	-	< 8.4	-	< 8.4
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	NONE	< 10	-	< 10	-	< 10
TPH-CWG - Aromatic (EC5 - EC44)	mg/kg	10	NONE	< 10	-	< 10	-	< 10

TPH Total C5 - C44	mg/kg	10	NONE	< 10	-	< 10	-	< 10
TPH Total C5 - C44	mg/kg	10	NONE	< 10	-	< 10	-	< 10

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 23-17130  
 Project / Site name: Begbroke  
 Your Order No: PO24069

Lab Sample Number	2582365	2582366	2582367			
Sample Reference	TP309	TP310	TP312			
Sample Number	None Supplied	None Supplied	None Supplied			
Depth (m)	1.00	0.40	0.10			
Date Sampled	06/02/2023	06/02/2023	06/02/2023			
Time Taken	None Supplied	None Supplied	None Supplied			
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status			
Stone Content	%	0.1	NONE	30	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	9.3	17	21
Total mass of sample received	kg	0.001	NONE	1	1	1

Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	DSO	DSO	DSO

#### General Inorganics

pH - Automated	pH Units	N/A	MCERTS	8.5	7.7	7.6
Free Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
Water Soluble SO <sub>4</sub> 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.005	0.0028	0.0067
Fraction Organic Carbon (FOC) Automated	N/A	0.001	MCERTS	0.0015	0.0073	0.026

#### Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0

#### Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05
Anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05
Pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05
Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05
Chrysene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	-	-	-
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	-	-	-
Benzo(b)fluoranthene & Benzo(k)fluoranthene	mg/kg	0.1	ISO 17025	< 0.1	< 0.1	< 0.1
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05

#### Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	< 0.80	< 0.80	< 0.80

Analytical Report Number: 23-17130  
 Project / Site name: Begbroke  
 Your Order No: PO24069

Lab Sample Number	2582365	2582366	2582367			
Sample Reference	TP309	TP310	TP312			
Sample Number	None Supplied	None Supplied	None Supplied			
Depth (m)	1.00	0.40	0.10			
Date Sampled	06/02/2023	06/02/2023	06/02/2023			
Time Taken	None Supplied	None Supplied	None Supplied			
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status			
<b>Heavy Metals / Metalloids</b>						
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	57	16	17
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	1.4	1	1
Boron (water soluble)	mg/kg	0.2	MCERTS	< 0.2	0.4	1.6
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	1.8	MCERTS	< 1.8	< 1.8	< 1.8
Chromium (III)	mg/kg	1	NONE	52	33	34
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	52	33	35
Copper (aqua regia extractable)	mg/kg	1	MCERTS	9	12	14
Lead (aqua regia extractable)	mg/kg	1	MCERTS	11	12	22
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	30	20	19
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	100	51	53
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	62	45	57

**Monoaromatics & Oxygenates**

	µg/kg					
Benzene	µg/kg	5	MCERTS	-	-	< 5.0
Toluene	µg/kg	5	MCERTS	-	-	< 5.0
Ethylbenzene	µg/kg	5	MCERTS	-	-	< 5.0
p & m-xylene	µg/kg	5	MCERTS	-	-	< 5.0
o-xylene	µg/kg	5	MCERTS	-	-	< 5.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	NONE	-	-	< 5.0

**Petroleum Hydrocarbons**

	mg/kg					
TPH-CWG - Aliphatic >EC5 - EC6 <sub>HS_ID_AL</sub>	mg/kg	0.001	NONE	-	-	< 0.001
TPH-CWG - Aliphatic >EC6 - EC8 <sub>HS_ID_AL</sub>	mg/kg	0.001	NONE	-	-	< 0.001
TPH-CWG - Aliphatic >EC8 - EC10 <sub>HS_ID_AL</sub>	mg/kg	0.001	NONE	-	-	< 0.001
TPH-CWG - Aliphatic >EC10 - EC12 <sub>EH_CU_ID_AL</sub>	mg/kg	1	MCERTS	-	-	< 1.0
TPH-CWG - Aliphatic >EC12 - EC16 <sub>EH_CU_ID_AL</sub>	mg/kg	2	MCERTS	-	-	< 2.0
TPH-CWG - Aliphatic >EC16 - EC21 <sub>EH_CU_ID_AL</sub>	mg/kg	8	MCERTS	-	-	< 8.0
TPH-CWG - Aliphatic >EC21 - EC35 <sub>EH_CU_ID_AL</sub>	mg/kg	8	MCERTS	-	-	< 8.0
TPH-CWG - Aliphatic >EC16 - EC35 <sub>EH_CU_ID_AL</sub>	mg/kg	10	MCERTS	-	-	< 10
TPH-CWG - Aliphatic > EC35 - EC44 <sub>EH_CU_ID_AL</sub>	mg/kg	8.4	NONE	-	-	< 8.4
TPH-CWG - Aliphatic (EC5 - EC35) <sub>EH_CU+HS_ID_AL</sub>	mg/kg	10	NONE	-	-	< 10
TPH-CWG - Aliphatic (EC5 - EC44) <sub>EH_CU+HS_ID_AL</sub>	mg/kg	10	NONE	-	-	< 10

	mg/kg					
TPH-CWG - Aromatic >EC5 - EC7 <sub>HS_ID_AR</sub>	mg/kg	0.001	NONE	-	-	< 0.001
TPH-CWG - Aromatic >EC7 - EC8 <sub>HS_ID_AR</sub>	mg/kg	0.001	NONE	-	-	< 0.001
TPH-CWG - Aromatic >EC8 - EC10 <sub>HS_ID_AR</sub>	mg/kg	0.001	NONE	-	-	< 0.001
TPH-CWG - Aromatic >EC10 - EC12 <sub>EH_CU_ID_AR</sub>	mg/kg	1	MCERTS	-	-	< 1.0
TPH-CWG - Aromatic >EC12 - EC16 <sub>EH_CU_ID_AR</sub>	mg/kg	2	MCERTS	-	-	< 2.0
TPH-CWG - Aromatic >EC16 - EC21 <sub>EH_CU_ID_AR</sub>	mg/kg	10	MCERTS	-	-	< 10
TPH-CWG - Aromatic >EC21 - EC35 <sub>EH_CU_ID_AR</sub>	mg/kg	10	MCERTS	-	-	< 10
TPH-CWG - Aromatic > EC35 - EC44 <sub>EH_CU_ID_AR</sub>	mg/kg	8.4	NONE	-	-	< 8.4
TPH-CWG - Aromatic (EC5 - EC35) <sub>EH_CU+HS_ID_AR</sub>	mg/kg	10	NONE	-	-	< 10
TPH-CWG - Aromatic (EC5 - EC44) <sub>EH_CU+HS_ID_AR</sub>	mg/kg	10	NONE	-	-	< 10

TPH Total C5 - C44 <sub>EH_CU+HS_ID_TOTAL</sub>	mg/kg	10	NONE	-	-	< 10
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U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected



**Analytical Report Number : 23-17130**

**Project / Site name: Begbroke**

\* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
2582360	TP317	None Supplied	0.1	Brown clay and sand with gravel and vegetation.
2582361	TP315	None Supplied	0.5	Brown clay and sand with gravel.
2582362	TP303	None Supplied	0.1	Brown clay and sand with gravel and vegetation.
2582363	TP304	None Supplied	0.8	Brown clay and sand with gravel and vegetation.
2582364	TP309	None Supplied	0.1	Brown clay and loam with gravel and vegetation.
2582365	TP309	None Supplied	1	Brown gravelly sand with stones.
2582366	TP310	None Supplied	0.4	Brown clay and sand with gravel and vegetation.
2582367	TP312	None Supplied	0.1	Brown clay and sand with gravel and vegetation.

Analytical Report Number : 23-17130

Project / Site name: Begbroke

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Sulphate, water soluble, in soil (16hr extraction)	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In house method.	L038-PL	D	MCERTS
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with dispersion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES.	In-house method based on Second Site Properties version 3	L038-PL	D	MCERTS
Free cyanide in soil	Determination of free cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	MCERTS
Moisture Content	Moisture content, determined gravimetrically. (30 oC)	In house method.	L019-UK/PL	W	NONE
Monohydric phenols in soil	Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	MCERTS
Speciated EPA-16 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement.	In house method.	L099-PL	D	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
BTEX and MTBE in soil (Monoaromatics)	Determination of BTEX in soil by headspace GC-MS. Individual components MCERTS accredited	In-house method based on USEPA8260	L073B-PL	W	MCERTS
TPH Chromatogram in Soil	TPH Chromatogram in Soil.	In-house method	L064-PL	D	NONE
Cr (III) in soil	In-house method by calculation from total Cr and Cr VI.	In-house method by calculation	L080-PL	W	NONE
TPHCWG (Soil)	Determination of hexane extractable hydrocarbons in soil by GC-MS/GC-FID.	In-house method with silica gel split/clean up.	L088/76-PL	W	MCERTS
TPH in (Soil)	Determination of TPH bands by HS-GC-MS/GC-FID	In-house method, TPH with carbon banding and silica gel split/cleanup.	L076-PL	D	MCERTS
Fraction Organic Carbon FOC Automated	Determination of fraction of organic carbon in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	In house method	L009	D	MCERTS
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in NaOH and addition of 1,5 diphenylcarbazide followed by colorimetry.	In-house method	L080-PL	W	MCERTS

Analytical Report Number : 23-17130  
 Project / Site name: Begbroke

**Water matrix abbreviations:**

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
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For method numbers ending in 'UK or A' analysis have been carried out in our laboratory in the United Kingdom (WATFORD).

For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).

For method numbers ending in 'PL or B' analysis have been carried out in our laboratory in Poland.

Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC  
 Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.

**Information in Support of Analytical Results**

**List of HWOL Acronyms and Operators**

Acronym	Descriptions
HS	Headspace Analysis
MS	Mass spectrometry
FID	Flame Ionisation Detector
GC	Gas Chromatography
EH	Extractable Hydrocarbons (i.e. everything extracted by the solvent(s))
CU	Clean-up - e.g. by Florisil®, silica gel
1D	GC - Single coil/column gas chromatography
2D	GC-GC - Double coil/column gas chromatography
Total	Aliphatics & Aromatics
AL	Aliphatics
AR	Aromatics
#1	EH_2D_Total but with humics mathematically subtracted
#2	EH_2D_Total but with fatty acids mathematically subtracted
_	Operator - understore to separate acronyms (exception for +)
+	Operator to indicate cumulative e.g. EH+HS_Total or EH_CU+HS_Total

## Sample Deviation Report



**Analytical Report Number : 23-17130**

**Project / Site name: Begbroke**

This deviation report indicates the sample and test deviations that apply to the samples submitted for analysis. Please note that the associated result(s) may be unreliable and should be interpreted with care.

Key: a - No sampling date b - Incorrect container c - Holding time d - Headspace e - Temperature

Sample ID	Other ID	Sample Type	Lab Sample Number	Sample Deviation	Test Name	Test Ref	Test Deviation
TP303	None Supplied	S	2582362	c	Free cyanide in soil	L080-PL	c
TP304	None Supplied	S	2582363	c	Free cyanide in soil	L080-PL	c
TP315	None Supplied	S	2582361	c	Free cyanide in soil	L080-PL	c
TP317	None Supplied	S	2582360	c	Free cyanide in soil	L080-PL	c

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## **Analytical Report Number : 22-85537**

<b>Project / Site name:</b>	Begbroke	<b>Samples received on:</b>	21/09/2022
<b>Your job number:</b>	19114	<b>Samples instructed on/ Analysis started on:</b>	21/09/2022
<b>Your order number:</b>	PO19941	<b>Analysis completed by:</b>	28/09/2022
<b>Report Issue Number:</b>	1	<b>Report issued on:</b>	28/09/2022
<b>Samples Analysed:</b>	6 soil samples		

**Signed:** 

Izabela Wójcik  
Reporting Specialist  
**For & on behalf of i2 Analytical Ltd.**

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting

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Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement. Application of uncertainty of measurement would provide a range within which the true result lies. An estimate of measurement uncertainty can be provided on request.

Analytical Report Number: 22-85537  
 Project / Site name: Begbroke  
 Your Order No: PO19941

Lab Sample Number	2432695	2432696	2432697	2432698	2432699			
Sample Reference	HP201	HP202	HP203	HP204	HP205			
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied			
Depth (m)	0.10	0.10	0.10	0.10	0.10			
Date Sampled	14/09/2022	14/09/2022	14/09/2022	14/09/2022	14/09/2022			
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied			
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	13	11	13	8.9	13
Total mass of sample received	kg	0.001	NONE	0.8	0.8	0.8	0.8	0.8

Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	DSA	DSA	DSA	DSA	DSA

#### General Inorganics

pH - Automated	pH Units	N/A	MCERTS	7.8	7.1	7.7	7.9	7.5
Free Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Water Soluble SO <sub>4</sub> 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.014	0.015	0.0096	0.0053	0.019
Fraction Organic Carbon (FOC) Automated	N/A	0.001	MCERTS	0.035	0.05	0.021	0.02	0.042

#### Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	1.3	< 1.0	< 1.0	< 1.0
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#### Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	0.59	2.6	< 0.05	< 0.05	< 0.05
Anthracene	mg/kg	0.05	MCERTS	0.2	0.81	< 0.05	< 0.05	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	0.79	3.2	0.27	0.28	< 0.05
Pyrene	mg/kg	0.05	MCERTS	0.68	3.1	0.25	0.25	< 0.05
Benzo(a)anthracene	mg/kg	0.05	MCERTS	0.56	2.3	0.18	0.25	< 0.05
Chrysene	mg/kg	0.05	MCERTS	0.53	1.7	0.23	0.25	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	0.67	2	0.27	< 0.05	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	0.27	1.5	0.14	< 0.05	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	0.51	1.8	0.24	< 0.05	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	0.33	1.2	< 0.05	< 0.05	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	0.38	< 0.05	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	0.51	1.6	< 0.05	< 0.05	< 0.05

#### Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	5.64	22.1	1.58	1.03	< 0.80
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#### Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	25	30	23	18	21
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	1.1	1.2	1.1	0.98	0.85
Boron (water soluble)	mg/kg	0.2	MCERTS	2	3.9	1.4	2.3	3.9
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	1.2	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	1.8	MCERTS	2	< 1.8	< 1.8	< 1.8	< 1.8
Chromium (III)	mg/kg	1	NONE	30	39	36	30	26
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	32	39	36	30	26
Copper (aqua regia extractable)	mg/kg	1	MCERTS	21	30	23	21	22
Lead (aqua regia extractable)	mg/kg	1	MCERTS	38	50	44	30	47
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	25	27	27	26	23
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	51	55	54	44	42
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	130	260	130	110	150

Analytical Report Number: 22-85537  
 Project / Site name: Begbroke  
 Your Order No: PO19941

Lab Sample Number	2432695				2432696				2432697				2432698				2432699			
Sample Reference	HP201				HP202				HP203				HP204				HP205			
Sample Number	None Supplied				None Supplied				None Supplied				None Supplied				None Supplied			
Depth (m)	0.10				0.10				0.10				0.10				0.10			
Date Sampled	14/09/2022				14/09/2022				14/09/2022				14/09/2022				14/09/2022			
Time Taken	None Supplied				None Supplied				None Supplied				None Supplied				None Supplied			
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status																	

#### Monoaromatics & Oxygenates

Compound	Units	Limit of detection	Accreditation Status	2432695	2432696	2432697	2432698	2432699
Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p & m-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

#### Petroleum Hydrocarbons

Compound	Units	Limit of detection	Accreditation Status	2432695	2432696	2432697	2432698	2432699
TPH-CWG - Aliphatic >EC5 - EC6 <sub>HS_ID_AL</sub>	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC6 - EC8 <sub>HS_ID_AL</sub>	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC8 - EC10 <sub>HS_ID_AL</sub>	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC10 - EC12 <sub>EH_CU_ID_AL</sub>	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aliphatic >EC12 - EC16 <sub>EH_CU_ID_AL</sub>	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	2.5	< 2.0
TPH-CWG - Aliphatic >EC16 - EC21 <sub>EH_CU_ID_AL</sub>	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
TPH-CWG - Aliphatic >EC21 - EC35 <sub>EH_CU_ID_AL</sub>	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
TPH-CWG - Aliphatic >EC16 - EC35 <sub>EH_CU_ID_AL</sub>	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic > EC35 - EC44 <sub>EH_CU_ID_AL</sub>	mg/kg	8.4	NONE	< 8.4	< 8.4	< 8.4	< 8.4	< 8.4
TPH-CWG - Aliphatic (EC5 - EC35) <sub>EH_CU+HS_ID_AL</sub>	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic (EC5 - EC44) <sub>EH_CU+HS_ID_AL</sub>	mg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10

Compound	Units	Limit of detection	Accreditation Status	2432695	2432696	2432697	2432698	2432699
TPH-CWG - Aromatic >EC5 - EC7 <sub>HS_ID_AR</sub>	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC7 - EC8 <sub>HS_ID_AR</sub>	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC8 - EC10 <sub>HS_ID_AR</sub>	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC10 - EC12 <sub>EH_CU_ID_AR</sub>	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aromatic >EC12 - EC16 <sub>EH_CU_ID_AR</sub>	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
TPH-CWG - Aromatic >EC16 - EC21 <sub>EH_CU_ID_AR</sub>	mg/kg	10	MCERTS	< 10	18	< 10	< 10	< 10
TPH-CWG - Aromatic >EC21 - EC35 <sub>EH_CU_ID_AR</sub>	mg/kg	10	MCERTS	< 10	44	< 10	< 10	< 10
TPH-CWG - Aromatic > EC35 - EC44 <sub>EH_CU_ID_AR</sub>	mg/kg	8.4	NONE	< 8.4	< 8.4	< 8.4	< 8.4	< 8.4
TPH-CWG - Aromatic (EC5 - EC35) <sub>EH_CU+HS_ID_AR</sub>	mg/kg	10	MCERTS	< 10	63	< 10	< 10	< 10
TPH-CWG - Aromatic (EC5 - EC44) <sub>EH_CU+HS_ID_AR</sub>	mg/kg	10	NONE	< 10	63	< 10	< 10	< 10

Compound	Units	Limit of detection	Accreditation Status	2432695	2432696	2432697	2432698	2432699
TPH Total C5 - C44 <sub>EH_CU+HS_ID_TOTAL</sub>	mg/kg	10	NONE	< 10	63	< 10	< 10	< 10

#### VOCs

Compound	Units	Limit of detection	Accreditation Status	2432695	2432696	2432697	2432698	2432699
Chloromethane	µg/kg	1	ISO 17025	-	< 1.0	-	-	< 1.0
Chloroethane	µg/kg	1	NONE	-	< 1.0	-	-	< 1.0
Bromomethane	µg/kg	1	ISO 17025	-	< 1.0	-	-	< 1.0
Vinyl Chloride	µg/kg	1	NONE	-	< 1.0	-	-	< 1.0
Trichlorofluoromethane	µg/kg	1	NONE	-	< 1.0	-	-	< 1.0
1,1-Dichloroethene	µg/kg	1	NONE	-	< 1.0	-	-	< 1.0
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	-	< 1.0	-	-	< 1.0
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	-	< 1.0	-	-	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	-	< 1.0	-	-	< 1.0
1,1-Dichloroethane	µg/kg	1	MCERTS	-	< 1.0	-	-	< 1.0
2,2-Dichloropropane	µg/kg	1	MCERTS	-	< 1.0	-	-	< 1.0
Trichloromethane	µg/kg	1	MCERTS	-	< 1.0	-	-	< 1.0
1,1,1-Trichloroethane	µg/kg	1	MCERTS	-	< 1.0	-	-	< 1.0
1,2-Dichloroethane	µg/kg	1	MCERTS	-	< 1.0	-	-	< 1.0
1,1-Dichloropropene	µg/kg	1	MCERTS	-	< 1.0	-	-	< 1.0
Trans-1,2-dichloroethene	µg/kg	1	NONE	-	< 1.0	-	-	< 1.0
Benzene	µg/kg	1	MCERTS	-	< 1.0	-	-	< 1.0

Analytical Report Number: 22-85537  
 Project / Site name: Begbroke  
 Your Order No: PO19941

Lab Sample Number				2432695	2432696	2432697	2432698	2432699
Sample Reference				HP201	HP202	HP203	HP204	HP205
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.10	0.10	0.10	0.10	0.10
Date Sampled				14/09/2022	14/09/2022	14/09/2022	14/09/2022	14/09/2022
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Tetrachloromethane	µg/kg	1	MCERTS	-	< 1.0	-	-	< 1.0
1,2-Dichloropropane	µg/kg	1	MCERTS	-	< 1.0	-	-	< 1.0
Trichloroethene	µg/kg	1	MCERTS	-	< 1.0	-	-	< 1.0
Dibromomethane	µg/kg	1	MCERTS	-	< 1.0	-	-	< 1.0
Bromodichloromethane	µg/kg	1	MCERTS	-	< 1.0	-	-	< 1.0
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	-	< 1.0	-	-	< 1.0
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	-	< 1.0	-	-	< 1.0
Toluene	µg/kg	1	MCERTS	-	< 1.0	-	-	< 1.0
1,1,2-Trichloroethane	µg/kg	1	MCERTS	-	< 1.0	-	-	< 1.0
1,3-Dichloropropane	µg/kg	1	ISO 17025	-	< 1.0	-	-	< 1.0
Dibromochloromethane	µg/kg	1	ISO 17025	-	< 1.0	-	-	< 1.0
Tetrachloroethene	µg/kg	1	NONE	-	< 1.0	-	-	< 1.0
1,2-Dibromoethane	µg/kg	1	ISO 17025	-	< 1.0	-	-	< 1.0
Chlorobenzene	µg/kg	1	MCERTS	-	< 1.0	-	-	< 1.0
1,1,1,2-Tetrachloroethane	µg/kg	1	MCERTS	-	< 1.0	-	-	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	-	< 1.0	-	-	< 1.0
p & m-Xylene	µg/kg	1	MCERTS	-	< 1.0	-	-	< 1.0
Styrene	µg/kg	1	MCERTS	-	< 1.0	-	-	< 1.0
Tribromomethane	µg/kg	1	NONE	-	< 1.0	-	-	< 1.0
o-Xylene	µg/kg	1	MCERTS	-	< 1.0	-	-	< 1.0
1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	-	< 1.0	-	-	< 1.0
Isopropylbenzene	µg/kg	1	MCERTS	-	< 1.0	-	-	< 1.0
Bromobenzene	µg/kg	1	MCERTS	-	< 1.0	-	-	< 1.0
n-Propylbenzene	µg/kg	1	ISO 17025	-	< 1.0	-	-	< 1.0
2-Chlorotoluene	µg/kg	1	MCERTS	-	< 1.0	-	-	< 1.0
4-Chlorotoluene	µg/kg	1	MCERTS	-	< 1.0	-	-	< 1.0
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	-	< 1.0	-	-	< 1.0
tert-Butylbenzene	µg/kg	1	MCERTS	-	< 1.0	-	-	< 1.0
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	-	< 1.0	-	-	< 1.0
sec-Butylbenzene	µg/kg	1	MCERTS	-	< 1.0	-	-	< 1.0
1,3-Dichlorobenzene	µg/kg	1	ISO 17025	-	< 1.0	-	-	< 1.0
p-Isopropyltoluene	µg/kg	1	ISO 17025	-	< 1.0	-	-	< 1.0
1,2-Dichlorobenzene	µg/kg	1	MCERTS	-	< 1.0	-	-	< 1.0
1,4-Dichlorobenzene	µg/kg	1	MCERTS	-	< 1.0	-	-	< 1.0
Butylbenzene	µg/kg	1	MCERTS	-	< 1.0	-	-	< 1.0
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	-	< 1.0	-	-	< 1.0
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	-	< 1.0	-	-	< 1.0
Hexachlorobutadiene	µg/kg	1	MCERTS	-	< 1.0	-	-	< 1.0
1,2,3-Trichlorobenzene	µg/kg	1	ISO 17025	-	< 1.0	-	-	< 1.0

**SVOCs**

Analytical Parameter	Units	Limit of detection	Accreditation Status					
Aniline	mg/kg	0.1	NONE	-	< 0.1	-	-	< 0.1
Phenol	mg/kg	0.2	ISO 17025	-	< 0.2	-	-	< 0.2
2-Chlorophenol	mg/kg	0.1	MCERTS	-	< 0.1	-	-	< 0.1
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	-	< 0.2	-	-	< 0.2
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	-	< 0.2	-	-	< 0.2
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	-	< 0.1	-	-	< 0.1
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	-	< 0.2	-	-	< 0.2
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	-	< 0.1	-	-	< 0.1
2-Methylphenol	mg/kg	0.3	MCERTS	-	< 0.3	-	-	< 0.3
Hexachloroethane	mg/kg	0.05	MCERTS	-	< 0.05	-	-	< 0.05
Nitrobenzene	mg/kg	0.3	MCERTS	-	< 0.3	-	-	< 0.3
4-Methylphenol	mg/kg	0.2	NONE	-	< 0.2	-	-	< 0.2



Analytical Report Number: 22-85537  
 Project / Site name: Begbroke  
 Your Order No: PO19941

Lab Sample Number				2432695	2432696	2432697	2432698	2432699
Sample Reference				HP201	HP202	HP203	HP204	HP205
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.10	0.10	0.10	0.10	0.10
Date Sampled				14/09/2022	14/09/2022	14/09/2022	14/09/2022	14/09/2022
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Isophorone	mg/kg	0.2	MCERTS	-	< 0.2	-	-	< 0.2
2-Nitrophenol	mg/kg	0.3	MCERTS	-	< 0.3	-	-	< 0.3
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	-	< 0.3	-	-	< 0.3
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	-	< 0.3	-	-	< 0.3
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	-	< 0.3	-	-	< 0.3
Naphthalene	mg/kg	0.05	MCERTS	-	< 0.05	-	-	< 0.05
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	-	< 0.3	-	-	< 0.3
4-Chloroaniline	mg/kg	0.1	NONE	-	< 0.1	-	-	< 0.1
Hexachlorobutadiene	mg/kg	0.1	MCERTS	-	< 0.1	-	-	< 0.1
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	-	< 0.1	-	-	< 0.1
2,4,6-Trichlorophenol	mg/kg	0.1	MCERTS	-	< 0.1	-	-	< 0.1
2,4,5-Trichlorophenol	mg/kg	0.2	MCERTS	-	< 0.2	-	-	< 0.2
2-Methylnaphthalene	mg/kg	0.1	NONE	-	< 0.1	-	-	< 0.1
2-Chloronaphthalene	mg/kg	0.1	MCERTS	-	< 0.1	-	-	< 0.1
Dimethylphthalate	mg/kg	0.1	MCERTS	-	< 0.1	-	-	< 0.1
2,6-Dinitrotoluene	mg/kg	0.1	MCERTS	-	< 0.1	-	-	< 0.1
Acenaphthylene	mg/kg	0.05	MCERTS	-	< 0.05	-	-	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	-	< 0.05	-	-	< 0.05
2,4-Dinitrotoluene	mg/kg	0.2	MCERTS	-	< 0.2	-	-	< 0.2
Dibenzofuran	mg/kg	0.2	MCERTS	-	< 0.2	-	-	< 0.2
4-Chlorophenyl phenyl ether	mg/kg	0.3	ISO 17025	-	< 0.3	-	-	< 0.3
Diethyl phthalate	mg/kg	0.2	MCERTS	-	< 0.2	-	-	< 0.2
4-Nitroaniline	mg/kg	0.2	MCERTS	-	< 0.2	-	-	< 0.2
Fluorene	mg/kg	0.05	MCERTS	-	< 0.05	-	-	< 0.05
Azobenzene	mg/kg	0.3	MCERTS	-	< 0.3	-	-	< 0.3
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	-	< 0.2	-	-	< 0.2
Hexachlorobenzene	mg/kg	0.3	MCERTS	-	< 0.3	-	-	< 0.3
Phenanthrene	mg/kg	0.05	MCERTS	-	2.6	-	-	< 0.05
Anthracene	mg/kg	0.05	MCERTS	-	0.81	-	-	< 0.05
Carbazole	mg/kg	0.3	MCERTS	-	< 0.3	-	-	< 0.3
Dibutyl phthalate	mg/kg	0.2	MCERTS	-	< 0.2	-	-	< 0.2
Anthraquinone	mg/kg	0.3	MCERTS	-	< 0.3	-	-	< 0.3
Fluoranthene	mg/kg	0.05	MCERTS	-	3.2	-	-	< 0.05
Pyrene	mg/kg	0.05	MCERTS	-	3.1	-	-	< 0.05
Butyl benzyl phthalate	mg/kg	0.3	ISO 17025	-	< 0.3	-	-	< 0.3
Benzo(a)anthracene	mg/kg	0.05	MCERTS	-	2.3	-	-	< 0.05
Chrysene	mg/kg	0.05	MCERTS	-	1.7	-	-	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	-	2	-	-	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	-	1.5	-	-	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	-	1.8	-	-	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	-	1.2	-	-	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	-	0.38	-	-	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	-	1.6	-	-	< 0.05

U/S = Unsuitable Sample I/S = Insufficient Sample

Analytical Report Number: 22-85537  
 Project / Site name: Begbroke  
 Your Order No: PO19941

<b>Lab Sample Number</b>				2432700
<b>Sample Reference</b>				HP206
<b>Sample Number</b>				None Supplied
<b>Depth (m)</b>				0.10
<b>Date Sampled</b>				14/09/2022
<b>Time Taken</b>				None Supplied
<b>Analytical Parameter (Soil Analysis)</b>	<b>Units</b>	<b>Limit of detection</b>	<b>Accreditation Status</b>	
Stone Content	%	0.1	NONE	< 0.1
Moisture Content	%	0.01	NONE	11
Total mass of sample received	kg	0.001	NONE	0.8

Asbestos in Soil	Type	N/A	ISO 17025	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	DSA

#### General Inorganics

pH - Automated	pH Units	N/A	MCERTS	7.5
Free Cyanide	mg/kg	1	MCERTS	< 1.0
Water Soluble SO <sub>4</sub> <sup>2-</sup> 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.0066
Fraction Organic Carbon (FOC) Automated	N/A	0.001	MCERTS	0.022

#### Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0
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#### Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	0.28
Anthracene	mg/kg	0.05	MCERTS	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	0.51
Pyrene	mg/kg	0.05	MCERTS	0.46
Benzo(a)anthracene	mg/kg	0.05	MCERTS	0.38
Chrysene	mg/kg	0.05	MCERTS	0.33
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	0.48
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	0.16
Benzo(a)pyrene	mg/kg	0.05	MCERTS	0.37
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	0.23
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	0.33

#### Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	3.53
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#### Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	32
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	1.1
Boron (water soluble)	mg/kg	0.2	MCERTS	2.4
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2
Chromium (hexavalent)	mg/kg	1.8	MCERTS	< 1.8
Chromium (III)	mg/kg	1	NONE	31
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	32
Copper (aqua regia extractable)	mg/kg	1	MCERTS	25
Lead (aqua regia extractable)	mg/kg	1	MCERTS	44
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	27
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	51
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	130

Analytical Report Number: 22-85537  
 Project / Site name: Begbroke  
 Your Order No: PO19941

Lab Sample Number	2432700			
Sample Reference	HP206			
Sample Number	None Supplied			
Depth (m)	0.10			
Date Sampled	14/09/2022			
Time Taken	None Supplied			
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status	

#### Monoaromatics & Oxygenates

Benzene	µg/kg	1	MCERTS	< 1.0
Toluene	µg/kg	1	MCERTS	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	< 1.0
p & m-xylene	µg/kg	1	MCERTS	< 1.0
o-xylene	µg/kg	1	MCERTS	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0

#### Petroleum Hydrocarbons

TPH-CWG - Aliphatic >EC5 - EC6 HS_ID_AL	mg/kg	0.001	MCERTS	< 0.001
TPH-CWG - Aliphatic >EC6 - EC8 HS_ID_AL	mg/kg	0.001	MCERTS	< 0.001
TPH-CWG - Aliphatic >EC8 - EC10 HS_ID_AL	mg/kg	0.001	MCERTS	< 0.001
TPH-CWG - Aliphatic >EC10 - EC12 EH_CU_ID_AL	mg/kg	1	MCERTS	< 1.0
TPH-CWG - Aliphatic >EC12 - EC16 EH_CU_ID_AL	mg/kg	2	MCERTS	< 2.0
TPH-CWG - Aliphatic >EC16 - EC21 EH_CU_ID_AL	mg/kg	8	MCERTS	< 8.0
TPH-CWG - Aliphatic >EC21 - EC35 EH_CU_ID_AL	mg/kg	8	MCERTS	< 8.0
TPH-CWG - Aliphatic >EC16 - EC35 EH_CU_ID_AL	mg/kg	10	MCERTS	< 10
TPH-CWG - Aliphatic > EC35 - EC44 EH_CU_ID_AL	mg/kg	8.4	NONE	< 8.4
TPH-CWG - Aliphatic (EC5 - EC35) EH_CU+HS_ID_AL	mg/kg	10	MCERTS	< 10
TPH-CWG - Aliphatic (EC5 - EC44) EH_CU+HS_ID_AL	mg/kg	10	NONE	< 10

TPH-CWG - Aromatic >EC5 - EC7 HS_ID_AR	mg/kg	0.001	MCERTS	< 0.001
TPH-CWG - Aromatic >EC7 - EC8 HS_ID_AR	mg/kg	0.001	MCERTS	< 0.001
TPH-CWG - Aromatic >EC8 - EC10 HS_ID_AR	mg/kg	0.001	MCERTS	< 0.001
TPH-CWG - Aromatic >EC10 - EC12 EH_CU_ID_AR	mg/kg	1	MCERTS	< 1.0
TPH-CWG - Aromatic >EC12 - EC16 EH_CU_ID_AR	mg/kg	2	MCERTS	< 2.0
TPH-CWG - Aromatic >EC16 - EC21 EH_CU_ID_AR	mg/kg	10	MCERTS	< 10
TPH-CWG - Aromatic >EC21 - EC35 EH_CU_ID_AR	mg/kg	10	MCERTS	< 10
TPH-CWG - Aromatic > EC35 - EC44 EH_CU_ID_AR	mg/kg	8.4	NONE	< 8.4
TPH-CWG - Aromatic (EC5 - EC35) EH_CU+HS_ID_AR	mg/kg	10	MCERTS	< 10
TPH-CWG - Aromatic (EC5 - EC44) EH_CU+HS_ID_AR	mg/kg	10	NONE	< 10

TPH Total C5 - C44 EH_CU+HS_ID_TOTAL	mg/kg	10	NONE	< 10
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#### VOCs

Chloromethane	µg/kg	1	ISO 17025	-
Chloroethane	µg/kg	1	NONE	-
Bromomethane	µg/kg	1	ISO 17025	-
Vinyl Chloride	µg/kg	1	NONE	-
Trichlorofluoromethane	µg/kg	1	NONE	-
1,1-Dichloroethene	µg/kg	1	NONE	-
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	-
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	-
1,1-Dichloroethane	µg/kg	1	MCERTS	-
2,2-Dichloropropane	µg/kg	1	MCERTS	-
Trichloromethane	µg/kg	1	MCERTS	-
1,1,1-Trichloroethane	µg/kg	1	MCERTS	-
1,2-Dichloroethane	µg/kg	1	MCERTS	-
1,1-Dichloropropene	µg/kg	1	MCERTS	-
Trans-1,2-dichloroethene	µg/kg	1	NONE	-
Benzene	µg/kg	1	MCERTS	-

Analytical Report Number: 22-85537  
 Project / Site name: Begbroke  
 Your Order No: PO19941

Lab Sample Number				2432700
Sample Reference				HP206
Sample Number				None Supplied
Depth (m)				0.10
Date Sampled				14/09/2022
Time Taken				None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status	
Tetrachloromethane	µg/kg	1	MCERTS	-
1,2-Dichloropropane	µg/kg	1	MCERTS	-
Trichloroethene	µg/kg	1	MCERTS	-
Dibromomethane	µg/kg	1	MCERTS	-
Bromodichloromethane	µg/kg	1	MCERTS	-
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	-
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	-
Toluene	µg/kg	1	MCERTS	-
1,1,2-Trichloroethane	µg/kg	1	MCERTS	-
1,3-Dichloropropane	µg/kg	1	ISO 17025	-
Dibromochloromethane	µg/kg	1	ISO 17025	-
Tetrachloroethene	µg/kg	1	NONE	-
1,2-Dibromoethane	µg/kg	1	ISO 17025	-
Chlorobenzene	µg/kg	1	MCERTS	-
1,1,1,2-Tetrachloroethane	µg/kg	1	MCERTS	-
Ethylbenzene	µg/kg	1	MCERTS	-
p & m-Xylene	µg/kg	1	MCERTS	-
Styrene	µg/kg	1	MCERTS	-
Tribromomethane	µg/kg	1	NONE	-
o-Xylene	µg/kg	1	MCERTS	-
1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	-
Isopropylbenzene	µg/kg	1	MCERTS	-
Bromobenzene	µg/kg	1	MCERTS	-
n-Propylbenzene	µg/kg	1	ISO 17025	-
2-Chlorotoluene	µg/kg	1	MCERTS	-
4-Chlorotoluene	µg/kg	1	MCERTS	-
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	-
tert-Butylbenzene	µg/kg	1	MCERTS	-
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	-
sec-Butylbenzene	µg/kg	1	MCERTS	-
1,3-Dichlorobenzene	µg/kg	1	ISO 17025	-
p-Isopropyltoluene	µg/kg	1	ISO 17025	-
1,2-Dichlorobenzene	µg/kg	1	MCERTS	-
1,4-Dichlorobenzene	µg/kg	1	MCERTS	-
Butylbenzene	µg/kg	1	MCERTS	-
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	-
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	-
Hexachlorobutadiene	µg/kg	1	MCERTS	-
1,2,3-Trichlorobenzene	µg/kg	1	ISO 17025	-

#### SVOCs

Analytical Parameter	Units	Limit of detection	Accreditation Status	
Aniline	mg/kg	0.1	NONE	-
Phenol	mg/kg	0.2	ISO 17025	-
2-Chlorophenol	mg/kg	0.1	MCERTS	-
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	-
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	-
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	-
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	-
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	-
2-Methylphenol	mg/kg	0.3	MCERTS	-
Hexachloroethane	mg/kg	0.05	MCERTS	-
Nitrobenzene	mg/kg	0.3	MCERTS	-
4-Methylphenol	mg/kg	0.2	NONE	-

Analytical Report Number: 22-85537  
 Project / Site name: Begbroke  
 Your Order No: PO19941

Lab Sample Number		2432700		
Sample Reference		HP206		
Sample Number		None Supplied		
Depth (m)		0.10		
Date Sampled		14/09/2022		
Time Taken		None Supplied		
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status	
Isophorone	mg/kg	0.2	MCERTS	-
2-Nitrophenol	mg/kg	0.3	MCERTS	-
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	-
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	-
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	-
Naphthalene	mg/kg	0.05	MCERTS	-
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	-
4-Chloroaniline	mg/kg	0.1	NONE	-
Hexachlorobutadiene	mg/kg	0.1	MCERTS	-
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	-
2,4,6-Trichlorophenol	mg/kg	0.1	MCERTS	-
2,4,5-Trichlorophenol	mg/kg	0.2	MCERTS	-
2-Methylnaphthalene	mg/kg	0.1	NONE	-
2-Chloronaphthalene	mg/kg	0.1	MCERTS	-
Dimethylphthalate	mg/kg	0.1	MCERTS	-
2,6-Dinitrotoluene	mg/kg	0.1	MCERTS	-
Acenaphthylene	mg/kg	0.05	MCERTS	-
Acenaphthene	mg/kg	0.05	MCERTS	-
2,4-Dinitrotoluene	mg/kg	0.2	MCERTS	-
Dibenzofuran	mg/kg	0.2	MCERTS	-
4-Chlorophenyl phenyl ether	mg/kg	0.3	ISO 17025	-
Diethyl phthalate	mg/kg	0.2	MCERTS	-
4-Nitroaniline	mg/kg	0.2	MCERTS	-
Fluorene	mg/kg	0.05	MCERTS	-
Azobenzene	mg/kg	0.3	MCERTS	-
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	-
Hexachlorobenzene	mg/kg	0.3	MCERTS	-
Phenanthrene	mg/kg	0.05	MCERTS	-
Anthracene	mg/kg	0.05	MCERTS	-
Carbazole	mg/kg	0.3	MCERTS	-
Dibutyl phthalate	mg/kg	0.2	MCERTS	-
Anthraquinone	mg/kg	0.3	MCERTS	-
Fluoranthene	mg/kg	0.05	MCERTS	-
Pyrene	mg/kg	0.05	MCERTS	-
Butyl benzyl phthalate	mg/kg	0.3	ISO 17025	-
Benzo(a)anthracene	mg/kg	0.05	MCERTS	-
Chrysene	mg/kg	0.05	MCERTS	-
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	-
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	-
Benzo(a)pyrene	mg/kg	0.05	MCERTS	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	-
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	-
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	-

U/S = Unsuitable Sample I/S = Insufficient Sample

**Analytical Report Number : 22-85537**

**Project / Site name: Begbroke**

\* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
2432695	HP201	None Supplied	0.1	Brown loam and sand with gravel and vegetation.
2432696	HP202	None Supplied	0.1	Brown loam and sand with gravel and vegetation.
2432697	HP203	None Supplied	0.1	Brown loam and sand with gravel and vegetation.
2432698	HP204	None Supplied	0.1	Brown loam and sand with gravel and vegetation.
2432699	HP205	None Supplied	0.1	Brown loam and sand with gravel and vegetation.
2432700	HP206	None Supplied	0.1	Brown loam and sand with gravel and vegetation.

Analytical Report Number : 22-85537

Project / Site name: Begbroke

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Sulphate, water soluble, in soil (16hr extraction)	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In house method.	L038-PL	D	MCERTS
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with dispersion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES.	In-house method based on Second Site Properties version 3	L038-PL	D	MCERTS
Free cyanide in soil	Determination of free cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	MCERTS
Moisture Content	Moisture content, determined gravimetrically. (30 oC)	In house method.	L019-UK/PL	W	NONE
Monohydric phenols in soil	Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	MCERTS
Speciated EPA-16 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement.	In house method.	L099-PL	D	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Semi-volatile organic compounds in soil	Determination of semi-volatile organic compounds in soil by extraction in dichloromethane and hexane followed by GC-MS.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
Volatile organic compounds in soil	Determination of volatile organic compounds in soil by headspace GC-MS.	In-house method based on USEPA8260	L073B-PL	W	MCERTS
BTEX and MTBE in soil (Monoaromatics)	Determination of BTEX in soil by headspace GC-MS.	In-house method based on USEPA8260	L073B-PL	W	MCERTS
TPH Chromatogram in Soil	TPH Chromatogram in Soil.	In-house method	L064-PL	D	NONE
Cr (III) in soil	In-house method by calculation from total Cr and Cr VI.	In-house method by calculation	L080-PL	W	NONE
TPHCWG (Soil)	Determination of hexane extractable hydrocarbons in soil by GC-MS/GC-FID.	In-house method with silica gel split/clean up.	L088/76-PL	W	MCERTS
TPH in (Soil)	Determination of TPH bands by HS-GC-MS/GC-FID	In-house method, TPH with carbon banding and silica gel split/cleanup.	L076-PL	D	MCERTS

Analytical Report Number : 22-85537

Project / Site name: Begbroke

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Fraction Organic Carbon FOC Automated	Determination of fraction of organic carbon in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	In house method	L009	D	MCERTS
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in NaOH and addition of 1,5 diphenylcarbazide followed by colorimetry.	In-house method	L080-PL	W	MCERTS

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.

For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.

Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

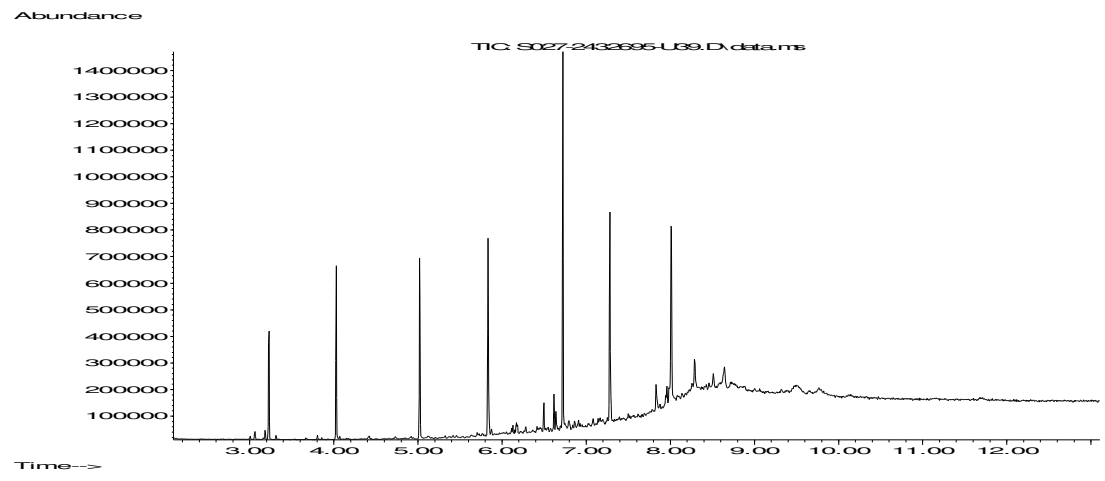
Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.

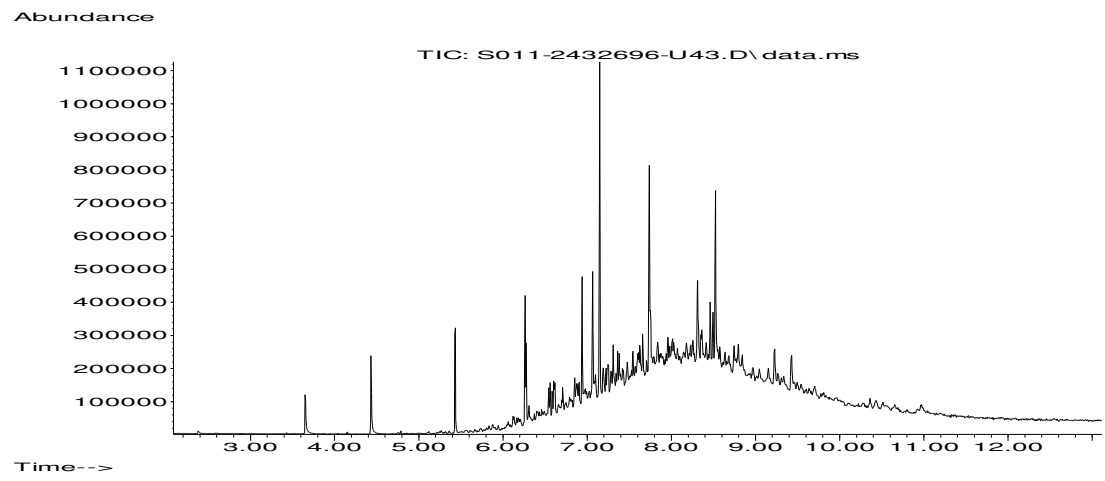
## Information in Support of Analytical Results

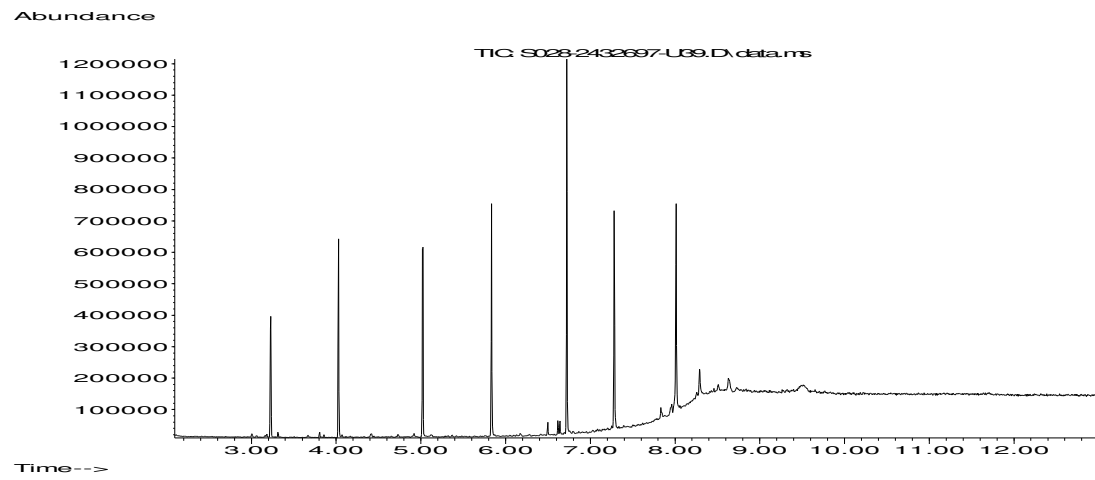
### List of HWOL Acronyms and Operators

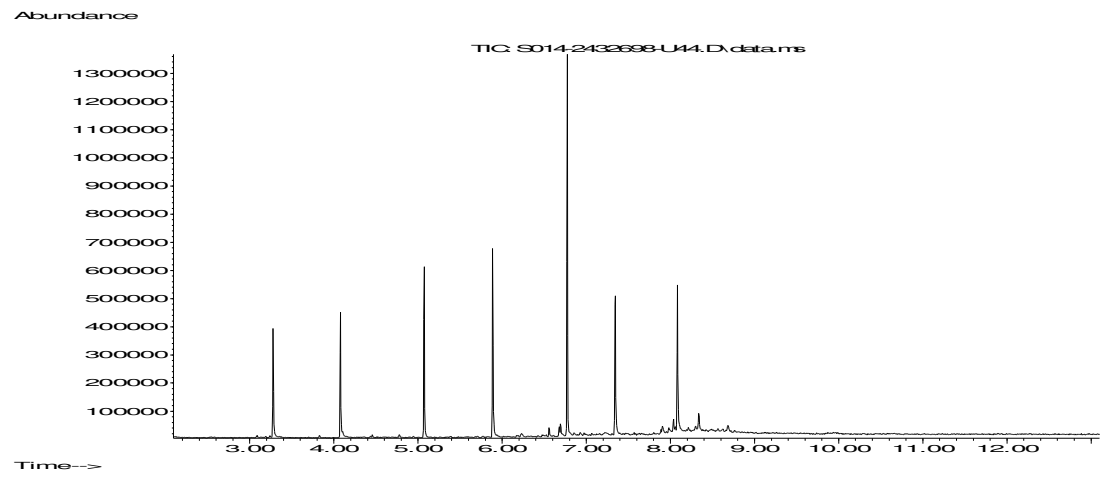
Acronym	Descriptions
HS	Headspace Analysis
MS	Mass spectrometry
FID	Flame Ionisation Detector
GC	Gas Chromatography
EH	Extractable Hydrocarbons (i.e. everything extracted by the solvent(s))
CU	Clean-up - e.g. by Florisil®, silica gel
1D	GC - Single coil/column gas chromatography
2D	GC-GC - Double coil/column gas chromatography
Total	Aliphatics & Aromatics
AL	Aliphatics
AR	Aromatics
#1	EH_2D_Total but with humics mathematically subtracted
#2	EH_2D_Total but with fatty acids mathematically subtracted
-	Operator - understore to separate acronyms (exception for +)
+	Operator to indicate cumulative e.g. EH+HS_Total or EH_CU+HS_Total

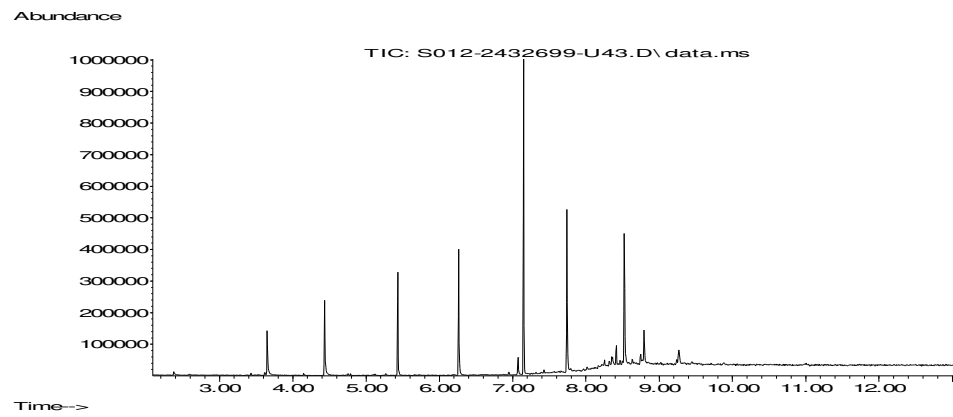


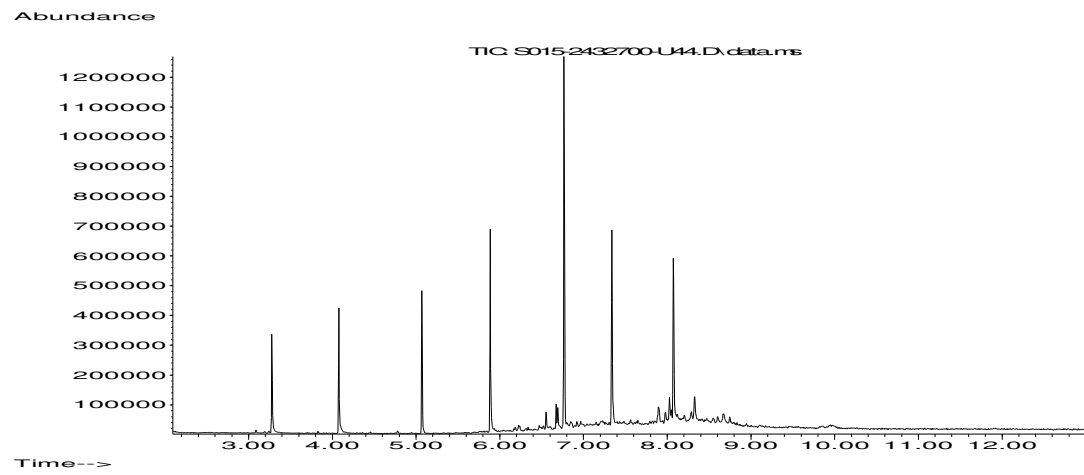












## Sample Deviation Report



**Analytical Report Number : 22-85537**

**Project / Site name: Begbroke**

This deviation report indicates the sample and test deviations that apply to the samples submitted for analysis. Please note that the associated result(s) may be unreliable and should be interpreted with care.

Sample ID	Other ID	Sample Type	Lab Sample Number	Sample Deviation	Test Name	Test Ref	Test Deviation
HP201	None Supplied	S	2432695	c	Free cyanide in soil	L080-PL	c
HP202	None Supplied	S	2432696	c	Free cyanide in soil	L080-PL	c
HP203	None Supplied	S	2432697	c	Free cyanide in soil	L080-PL	c
HP204	None Supplied	S	2432698	c	Free cyanide in soil	L080-PL	c
HP205	None Supplied	S	2432699	c	Free cyanide in soil	L080-PL	c
HP206	None Supplied	S	2432700	c	Free cyanide in soil	L080-PL	c



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## **Analytical Report Number : 22-82372**

<b>Project / Site name:</b>	Begbroke	<b>Samples received on:</b>	06/09/2022
<b>Your job number:</b>	19174	<b>Samples instructed on/ Analysis started on:</b>	06/09/2022
<b>Your order number:</b>	PO19941	<b>Analysis completed by:</b>	14/09/2022
<b>Report Issue Number:</b>	1	<b>Report issued on:</b>	14/09/2022
<b>Samples Analysed:</b>	15 soil samples		

**Signed:** 

Claire Brown-Crociquia  
Group Customer Services Manager  
**For & on behalf of i2 Analytical Ltd.**

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils - 4 weeks from reporting  
leachates - 2 weeks from reporting  
waters - 2 weeks from reporting  
asbestos - 6 months from reporting

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Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement.  
Application of uncertainty of measurement would provide a range within which the true result lies.  
An estimate of measurement uncertainty can be provided on request.



Analytical Report Number: 22-82372

Project / Site name: Begbroke

Your Order No: PO19941

Lab Sample Number				2414894	2414895	2414896	2414897	2414898
Sample Reference				WS213	WS213	WS205	WS205	WS209
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.10	0.50	0.20	0.60	0.30
Date Sampled				28/08/2022	22/08/2022	22/08/2022	22/08/2022	22/08/2022
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	2.1	4.1	11	15	7.4
Total mass of sample received	kg	0.001	NONE	1.1	1.1	1.1	1.1	1.1

Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	SFS	SFS	SFS	SFS	SFS

#### General Inorganics

pH - Automated	pH Units	N/A	MCERTS	7.7	7.9	7.9	8.0	7.4
Free Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.0061	0.0052	0.0095	0.0077	0.011
Fraction Organic Carbon (FOC) Automated	N/A	0.001	MCERTS	0.017	0.0057	0.023	0.0095	0.031

#### Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
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#### Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.25	< 0.05	< 0.05
Pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.28	< 0.05	< 0.05
Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.2	< 0.05	< 0.05
Chrysene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.18	< 0.05	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05

#### Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	< 0.80	< 0.80	0.91	< 0.80	< 0.80
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Analytical Report Number: 22-82372

Project / Site name: Begbroke

Your Order No: PO19941

Lab Sample Number	2414894				2414895		2414896		2414897		2414898	
Sample Reference	WS213				WS213		WS205		WS205		WS209	
Sample Number	None Supplied				None Supplied		None Supplied		None Supplied		None Supplied	
Depth (m)	0.10				0.50		0.20		0.60		0.30	
Date Sampled	28/08/2022				22/08/2022		22/08/2022		22/08/2022		22/08/2022	
Time Taken	None Supplied				None Supplied		None Supplied		None Supplied		None Supplied	
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status									

**Heavy Metals / Metalloids**

Element	Unit	Limit	Accreditation	2414894	2414895	2414896	2414897	2414898
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	67	64	35	34	36
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	1.6	1.6	1.6	2	1.1
Boron (water soluble)	mg/kg	0.2	MCERTS	0.4	0.7	0.9	1.3	0.8
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	1.8	MCERTS	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8
Chromium (III)	mg/kg	1	NONE	69	58	49	64	38
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	70	58	50	64	38
Copper (aqua regia extractable)	mg/kg	1	MCERTS	15	14	19	19	17
Lead (aqua regia extractable)	mg/kg	1	MCERTS	30	20	40	25	31
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	40	38	35	45	25
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	250	110	83	100	68
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	100	100	120	120	95

**Monoaromatics & Oxygenates**

Compound	Unit	Limit	Accreditation	2414894	2414895	2414896	2414897	2414898
Benzene	µg/kg	1	MCERTS	-	-	-	-	-
Toluene	µg/kg	1	MCERTS	-	-	-	-	-
Ethylbenzene	µg/kg	1	MCERTS	-	-	-	-	-
p & m-xylene	µg/kg	1	MCERTS	-	-	-	-	-
o-xylene	µg/kg	1	MCERTS	-	-	-	-	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	-	-	-	-	-

**Petroleum Hydrocarbons**

Parameter	Unit	Limit	Accreditation	2414894	2414895	2414896	2414897	2414898
TPH-CWG - Aliphatic >EC5 - EC6 <sub>HS_1D_AL</sub>	mg/kg	0.001	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC6 - EC8 <sub>HS_1D_AL</sub>	mg/kg	0.001	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC8 - EC10 <sub>HS_1D_AL</sub>	mg/kg	0.001	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC10 - EC12 <sub>EH_CU_1D_AL</sub>	mg/kg	1	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC12 - EC16 <sub>EH_CU_1D_AL</sub>	mg/kg	2	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC16 - EC21 <sub>EH_CU_1D_AL</sub>	mg/kg	8	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC21 - EC35 <sub>EH_CU_1D_AL</sub>	mg/kg	8	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC16 - EC35 <sub>EH_CU_1D_AL</sub>	mg/kg	10	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC35 - EC44 <sub>EH_CU_1D_AL</sub>	mg/kg	8.4	NONE	-	-	-	-	-
TPH-CWG - Aliphatic (EC5 - EC35) <sub>EH_CU+HS_1D_AL</sub>	mg/kg	10	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic (EC5 - EC44) <sub>EH_CU+HS_1D_AL</sub>	mg/kg	10	NONE	-	-	-	-	-

Parameter	Unit	Limit	Accreditation	2414894	2414895	2414896	2414897	2414898
TPH-CWG - Aromatic >EC5 - EC7 <sub>HS_1D_AR</sub>	mg/kg	0.001	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic >EC7 - EC8 <sub>HS_1D_AR</sub>	mg/kg	0.001	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic >EC8 - EC10 <sub>HS_1D_AR</sub>	mg/kg	0.001	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic >EC10 - EC12 <sub>EH_CU_1D_AR</sub>	mg/kg	1	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic >EC12 - EC16 <sub>EH_CU_1D_AR</sub>	mg/kg	2	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic >EC16 - EC21 <sub>EH_CU_1D_AR</sub>	mg/kg	10	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic >EC21 - EC35 <sub>EH_CU_1D_AR</sub>	mg/kg	10	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic >EC35 - EC44 <sub>EH_CU_1D_AR</sub>	mg/kg	8.4	NONE	-	-	-	-	-
TPH-CWG - Aromatic (EC5 - EC35) <sub>EH_CU+HS_1D_AR</sub>	mg/kg	10	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic (EC5 - EC44) <sub>EH_CU+HS_1D_AR</sub>	mg/kg	10	NONE	-	-	-	-	-

TPH Total C5 - C44 <sub>EH_CU+HS_1D_TOTAL</sub>	mg/kg	10	NONE	-	-	-	-	-
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Analytical Report Number: 22-82372

Project / Site name: Begbroke

Your Order No: PO19941

Lab Sample Number	2414894				2414895	2414896	2414897	2414898
Sample Reference	WS213				WS213	WS205	WS205	WS209
Sample Number	None Supplied				None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)	0.10				0.50	0.20	0.60	0.30
Date Sampled	28/08/2022				22/08/2022	22/08/2022	22/08/2022	22/08/2022
Time Taken	None Supplied				None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					

**VOCs**

Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status	2414894	2414895	2414896	2414897	2414898
Chloromethane	µg/kg	1	ISO 17025	-	-	-	-	-
Chloroethane	µg/kg	1	NONE	-	-	-	-	-
Bromomethane	µg/kg	1	ISO 17025	-	-	-	-	-
Vinyl Chloride	µg/kg	1	NONE	-	-	-	-	-
Trichlorofluoromethane	µg/kg	1	NONE	-	-	-	-	-
1,1-Dichloroethene	µg/kg	1	NONE	-	-	-	-	-
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	-	-	-	-	-
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	-	-	-	-	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	-	-	-	-	-
1,1-Dichloroethane	µg/kg	1	MCERTS	-	-	-	-	-
2,2-Dichloropropane	µg/kg	1	MCERTS	-	-	-	-	-
Trichloromethane	µg/kg	1	MCERTS	-	-	-	-	-
1,1,1-Trichloroethane	µg/kg	1	MCERTS	-	-	-	-	-
1,2-Dichloroethane	µg/kg	1	MCERTS	-	-	-	-	-
1,1-Dichloropropene	µg/kg	1	MCERTS	-	-	-	-	-
Trans-1,2-dichloroethene	µg/kg	1	NONE	-	-	-	-	-
Benzene	µg/kg	1	MCERTS	-	-	-	-	-
Tetrachloromethane	µg/kg	1	MCERTS	-	-	-	-	-
1,2-Dichloropropane	µg/kg	1	MCERTS	-	-	-	-	-
Trichloroethene	µg/kg	1	MCERTS	-	-	-	-	-
Dibromomethane	µg/kg	1	MCERTS	-	-	-	-	-
Bromodichloromethane	µg/kg	1	MCERTS	-	-	-	-	-
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	-	-	-	-	-
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	-	-	-	-	-
Toluene	µg/kg	1	MCERTS	-	-	-	-	-
1,1,2-Trichloroethane	µg/kg	1	MCERTS	-	-	-	-	-
1,3-Dichloropropane	µg/kg	1	ISO 17025	-	-	-	-	-
Dibromochloromethane	µg/kg	1	ISO 17025	-	-	-	-	-
Tetrachloroethene	µg/kg	1	NONE	-	-	-	-	-
1,2-Dibromoethane	µg/kg	1	ISO 17025	-	-	-	-	-
Chlorobenzene	µg/kg	1	MCERTS	-	-	-	-	-
1,1,1,2-Tetrachloroethane	µg/kg	1	MCERTS	-	-	-	-	-
Ethylbenzene	µg/kg	1	MCERTS	-	-	-	-	-
p & m-Xylene	µg/kg	1	MCERTS	-	-	-	-	-
Styrene	µg/kg	1	MCERTS	-	-	-	-	-
Tribromomethane	µg/kg	1	NONE	-	-	-	-	-
o-Xylene	µg/kg	1	MCERTS	-	-	-	-	-
1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	-	-	-	-	-
Isopropylbenzene	µg/kg	1	MCERTS	-	-	-	-	-
Bromobenzene	µg/kg	1	MCERTS	-	-	-	-	-
n-Propylbenzene	µg/kg	1	ISO 17025	-	-	-	-	-
2-Chlorotoluene	µg/kg	1	MCERTS	-	-	-	-	-
4-Chlorotoluene	µg/kg	1	MCERTS	-	-	-	-	-
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	-	-	-	-	-
tert-Butylbenzene	µg/kg	1	MCERTS	-	-	-	-	-
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	-	-	-	-	-
sec-Butylbenzene	µg/kg	1	MCERTS	-	-	-	-	-
1,3-Dichlorobenzene	µg/kg	1	ISO 17025	-	-	-	-	-
p-Isopropyltoluene	µg/kg	1	ISO 17025	-	-	-	-	-
1,2-Dichlorobenzene	µg/kg	1	MCERTS	-	-	-	-	-
1,4-Dichlorobenzene	µg/kg	1	MCERTS	-	-	-	-	-
Butylbenzene	µg/kg	1	MCERTS	-	-	-	-	-

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Lab Sample Number				2414894	2414895	2414896	2414897	2414898
Sample Reference				WS213	WS213	WS205	WS205	WS209
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.10	0.50	0.20	0.60	0.30
Date Sampled				28/08/2022	22/08/2022	22/08/2022	22/08/2022	22/08/2022
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
				1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	-
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	-	-	-	-	-
Hexachlorobutadiene	µg/kg	1	MCERTS	-	-	-	-	-
1,2,3-Trichlorobenzene	µg/kg	1	ISO 17025	-	-	-	-	-

Analytical Report Number: 22-82372

Project / Site name: Begbroke

Your Order No: PO19941

Lab Sample Number	2414894				2414895	2414896	2414897	2414898
Sample Reference	WS213				WS213	WS205	WS205	WS209
Sample Number	None Supplied				None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)	0.10				0.50	0.20	0.60	0.30
Date Sampled	28/08/2022				22/08/2022	22/08/2022	22/08/2022	22/08/2022
Time Taken	None Supplied				None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					

**SVOCs**

Compound	Units	Limit of detection	Accreditation Status	2414894	2414895	2414896	2414897	2414898
Aniline	mg/kg	0.1	NONE	-	-	-	-	-
Phenol	mg/kg	0.2	ISO 17025	-	-	-	-	-
2-Chlorophenol	mg/kg	0.1	MCERTS	-	-	-	-	-
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	-	-	-	-	-
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	-	-	-	-	-
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	-	-	-	-	-
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	-	-	-	-	-
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	-	-	-	-	-
2-Methylphenol	mg/kg	0.3	MCERTS	-	-	-	-	-
Hexachloroethane	mg/kg	0.05	MCERTS	-	-	-	-	-
Nitrobenzene	mg/kg	0.3	MCERTS	-	-	-	-	-
4-Methylphenol	mg/kg	0.2	NONE	-	-	-	-	-
Isophorone	mg/kg	0.2	MCERTS	-	-	-	-	-
2-Nitrophenol	mg/kg	0.3	MCERTS	-	-	-	-	-
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	-	-	-	-	-
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	-	-	-	-	-
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	-	-	-	-	-
Naphthalene	mg/kg	0.05	MCERTS	-	-	-	-	-
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	-	-	-	-	-
4-Chloroaniline	mg/kg	0.1	NONE	-	-	-	-	-
Hexachlorobutadiene	mg/kg	0.1	MCERTS	-	-	-	-	-
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	-	-	-	-	-
2,4,6-Trichlorophenol	mg/kg	0.1	MCERTS	-	-	-	-	-
2,4,5-Trichlorophenol	mg/kg	0.2	MCERTS	-	-	-	-	-
2-Methylnaphthalene	mg/kg	0.1	NONE	-	-	-	-	-
2-Chloronaphthalene	mg/kg	0.1	MCERTS	-	-	-	-	-
Dimethylphthalate	mg/kg	0.1	MCERTS	-	-	-	-	-
2,6-Dinitrotoluene	mg/kg	0.1	MCERTS	-	-	-	-	-
Acenaphthylene	mg/kg	0.05	MCERTS	-	-	-	-	-
Acenaphthene	mg/kg	0.05	MCERTS	-	-	-	-	-
2,4-Dinitrotoluene	mg/kg	0.2	MCERTS	-	-	-	-	-
Dibenzofuran	mg/kg	0.2	MCERTS	-	-	-	-	-
4-Chlorophenyl phenyl ether	mg/kg	0.3	ISO 17025	-	-	-	-	-
Diethyl phthalate	mg/kg	0.2	MCERTS	-	-	-	-	-
4-Nitroaniline	mg/kg	0.2	MCERTS	-	-	-	-	-
Fluorene	mg/kg	0.05	MCERTS	-	-	-	-	-
Azobenzene	mg/kg	0.3	MCERTS	-	-	-	-	-
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	-	-	-	-	-
Hexachlorobenzene	mg/kg	0.3	MCERTS	-	-	-	-	-
Phenanthrene	mg/kg	0.05	MCERTS	-	-	-	-	-
Anthracene	mg/kg	0.05	MCERTS	-	-	-	-	-
Carbazole	mg/kg	0.3	MCERTS	-	-	-	-	-
Dibutyl phthalate	mg/kg	0.2	MCERTS	-	-	-	-	-
Anthraquinone	mg/kg	0.3	MCERTS	-	-	-	-	-
Fluoranthene	mg/kg	0.05	MCERTS	-	-	-	-	-
Pyrene	mg/kg	0.05	MCERTS	-	-	-	-	-
Butyl benzyl phthalate	mg/kg	0.3	ISO 17025	-	-	-	-	-
Benzo(a)anthracene	mg/kg	0.05	MCERTS	-	-	-	-	-
Chrysene	mg/kg	0.05	MCERTS	-	-	-	-	-
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	-	-	-	-	-
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	-	-	-	-	-

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Project / Site name: Begbroke

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Lab Sample Number	2414894				2414895				2414896				2414897				2414898			
Sample Reference	WS213				WS213				WS205				WS205				WS209			
Sample Number	None Supplied				None Supplied				None Supplied				None Supplied				None Supplied			
Depth (m)	0.10				0.50				0.20				0.60				0.30			
Date Sampled	28/08/2022				22/08/2022				22/08/2022				22/08/2022				22/08/2022			
Time Taken	None Supplied				None Supplied				None Supplied				None Supplied				None Supplied			
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status																	
Benzo(a)pyrene	mg/kg	0.05	MCERTS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		

**Pesticide and Herbicide Screen**

GCMS Pesticide Screen		N/A	NONE	-	-	None Detected	-	-
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U/S = Unsuitable Sample I/S = Insufficient Sample

Analytical Report Number: 22-82372

Project / Site name: Begbroke

Your Order No: PO19941

Lab Sample Number				2414899	2414900	2414901	2414902	2414903
Sample Reference				WS214	WS203	WS204	WS204	WS217
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.10	0.10	0.20	0.60	0.10
Date Sampled				22/08/2022	23/08/2022	23/08/2022	23/08/2022	23/08/2022
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	2.8	2.8	5.2	6.5	2.4
Total mass of sample received	kg	0.001	NONE	1.1	1.1	1.1	1.1	1.1

Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	SFS	SFS	SFS	SFS	SFS

#### General Inorganics

pH - Automated	pH Units	N/A	MCERTS	8.1	7.7	7.9	8.1	7.6
Free Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.007	0.006	0.01	0.0072	0.012
Fraction Organic Carbon (FOC) Automated	N/A	0.001	MCERTS	0.018	0.02	0.027	0.014	0.019

#### Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
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#### Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Chrysene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05

#### Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80
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Analytical Report Number: 22-82372

Project / Site name: Begbroke

Your Order No: PO19941

Lab Sample Number					2414899	2414900	2414901	2414902	2414903
Sample Reference					WS214	WS203	WS204	WS204	WS217
Sample Number					None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)					0.10	0.10	0.20	0.60	0.10
Date Sampled					22/08/2022	23/08/2022	23/08/2022	23/08/2022	23/08/2022
Time Taken					None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status						
<b>Heavy Metals / Metalloids</b>									
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	63	52	67	79	47	
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	1.4	1.4	1.6	1.6	1.3	
Boron (water soluble)	mg/kg	0.2	MCERTS	1.1	0.9	2.4	1.7	1.1	
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	
Chromium (hexavalent)	mg/kg	1.8	MCERTS	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	
Chromium (III)	mg/kg	1	NONE	50	48	56	60	47	
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	52	49	57	61	48	
Copper (aqua regia extractable)	mg/kg	1	MCERTS	15	14	19	16	15	
Lead (aqua regia extractable)	mg/kg	1	MCERTS	28	35	55	34	30	
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	33	31	39	44	32	
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	91	90	100	110	90	
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	96	86	96	92	110	

**Monoaromatics & Oxygenates**

Compound	Units	Limit of detection	Accreditation Status					
Benzene	µg/kg	1	MCERTS	-	-	-	-	-
Toluene	µg/kg	1	MCERTS	-	-	-	-	-
Ethylbenzene	µg/kg	1	MCERTS	-	-	-	-	-
p & m-xylene	µg/kg	1	MCERTS	-	-	-	-	-
o-xylene	µg/kg	1	MCERTS	-	-	-	-	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	-	-	-	-	-

**Petroleum Hydrocarbons**

Compound	Units	Limit of detection	Accreditation Status					
TPH-CWG - Aliphatic >EC5 - EC6 <sub>HS_1D_AL</sub>	mg/kg	0.001	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC6 - EC8 <sub>HS_1D_AL</sub>	mg/kg	0.001	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC8 - EC10 <sub>HS_1D_AL</sub>	mg/kg	0.001	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC10 - EC12 <sub>EH_CU_1D_AL</sub>	mg/kg	1	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC12 - EC16 <sub>EH_CU_1D_AL</sub>	mg/kg	2	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC16 - EC21 <sub>EH_CU_1D_AL</sub>	mg/kg	8	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC21 - EC35 <sub>EH_CU_1D_AL</sub>	mg/kg	8	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC16 - EC35 <sub>EH_CU_1D_AL</sub>	mg/kg	10	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC35 - EC44 <sub>EH_CU_1D_AL</sub>	mg/kg	8.4	NONE	-	-	-	-	-
TPH-CWG - Aliphatic (EC5 - EC35) <sub>EH_CU+HS_1D_AL</sub>	mg/kg	10	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic (EC5 - EC44) <sub>EH_CU+HS_1D_AL</sub>	mg/kg	10	NONE	-	-	-	-	-

Compound	Units	Limit of detection	Accreditation Status					
TPH-CWG - Aromatic >EC5 - EC7 <sub>HS_1D_AR</sub>	mg/kg	0.001	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic >EC7 - EC8 <sub>HS_1D_AR</sub>	mg/kg	0.001	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic >EC8 - EC10 <sub>HS_1D_AR</sub>	mg/kg	0.001	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic >EC10 - EC12 <sub>EH_CU_1D_AR</sub>	mg/kg	1	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic >EC12 - EC16 <sub>EH_CU_1D_AR</sub>	mg/kg	2	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic >EC16 - EC21 <sub>EH_CU_1D_AR</sub>	mg/kg	10	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic >EC21 - EC35 <sub>EH_CU_1D_AR</sub>	mg/kg	10	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic >EC35 - EC44 <sub>EH_CU_1D_AR</sub>	mg/kg	8.4	NONE	-	-	-	-	-
TPH-CWG - Aromatic (EC5 - EC35) <sub>EH_CU+HS_1D_AR</sub>	mg/kg	10	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic (EC5 - EC44) <sub>EH_CU+HS_1D_AR</sub>	mg/kg	10	NONE	-	-	-	-	-

TPH Total C5 - C44 <sub>EH_CU+HS_1D_TOTAL</sub>	mg/kg	10	NONE	-	-	-	-	-
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Analytical Report Number: 22-82372

Project / Site name: Begbroke

Your Order No: PO19941

Lab Sample Number				2414899	2414900	2414901	2414902	2414903
Sample Reference				WS214	WS203	WS204	WS204	WS217
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.10	0.10	0.20	0.60	0.10
Date Sampled				22/08/2022	23/08/2022	23/08/2022	23/08/2022	23/08/2022
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
<b>VOCs</b>								
Chloromethane	µg/kg	1	ISO 17025	-	-	-	-	-
Chloroethane	µg/kg	1	NONE	-	-	-	-	-
Bromomethane	µg/kg	1	ISO 17025	-	-	-	-	-
Vinyl Chloride	µg/kg	1	NONE	-	-	-	-	-
Trichlorofluoromethane	µg/kg	1	NONE	-	-	-	-	-
1,1-Dichloroethene	µg/kg	1	NONE	-	-	-	-	-
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	-	-	-	-	-
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	-	-	-	-	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	-	-	-	-	-
1,1-Dichloroethane	µg/kg	1	MCERTS	-	-	-	-	-
2,2-Dichloropropane	µg/kg	1	MCERTS	-	-	-	-	-
Trichloromethane	µg/kg	1	MCERTS	-	-	-	-	-
1,1,1-Trichloroethane	µg/kg	1	MCERTS	-	-	-	-	-
1,2-Dichloroethane	µg/kg	1	MCERTS	-	-	-	-	-
1,1-Dichloropropene	µg/kg	1	MCERTS	-	-	-	-	-
Trans-1,2-dichloroethene	µg/kg	1	NONE	-	-	-	-	-
Benzene	µg/kg	1	MCERTS	-	-	-	-	-
Tetrachloromethane	µg/kg	1	MCERTS	-	-	-	-	-
1,2-Dichloropropane	µg/kg	1	MCERTS	-	-	-	-	-
Trichloroethene	µg/kg	1	MCERTS	-	-	-	-	-
Dibromomethane	µg/kg	1	MCERTS	-	-	-	-	-
Bromodichloromethane	µg/kg	1	MCERTS	-	-	-	-	-
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	-	-	-	-	-
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	-	-	-	-	-
Toluene	µg/kg	1	MCERTS	-	-	-	-	-
1,1,2-Trichloroethane	µg/kg	1	MCERTS	-	-	-	-	-
1,3-Dichloropropane	µg/kg	1	ISO 17025	-	-	-	-	-
Dibromochloromethane	µg/kg	1	ISO 17025	-	-	-	-	-
Tetrachloroethene	µg/kg	1	NONE	-	-	-	-	-
1,2-Dibromoethane	µg/kg	1	ISO 17025	-	-	-	-	-
Chlorobenzene	µg/kg	1	MCERTS	-	-	-	-	-
1,1,1,2-Tetrachloroethane	µg/kg	1	MCERTS	-	-	-	-	-
Ethylbenzene	µg/kg	1	MCERTS	-	-	-	-	-
p & m-Xylene	µg/kg	1	MCERTS	-	-	-	-	-
Styrene	µg/kg	1	MCERTS	-	-	-	-	-
Tribromomethane	µg/kg	1	NONE	-	-	-	-	-
o-Xylene	µg/kg	1	MCERTS	-	-	-	-	-
1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	-	-	-	-	-
Isopropylbenzene	µg/kg	1	MCERTS	-	-	-	-	-
Bromobenzene	µg/kg	1	MCERTS	-	-	-	-	-
n-Propylbenzene	µg/kg	1	ISO 17025	-	-	-	-	-
2-Chlorotoluene	µg/kg	1	MCERTS	-	-	-	-	-
4-Chlorotoluene	µg/kg	1	MCERTS	-	-	-	-	-
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	-	-	-	-	-
tert-Butylbenzene	µg/kg	1	MCERTS	-	-	-	-	-
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	-	-	-	-	-
sec-Butylbenzene	µg/kg	1	MCERTS	-	-	-	-	-
1,3-Dichlorobenzene	µg/kg	1	ISO 17025	-	-	-	-	-
p-Isopropyltoluene	µg/kg	1	ISO 17025	-	-	-	-	-
1,2-Dichlorobenzene	µg/kg	1	MCERTS	-	-	-	-	-
1,4-Dichlorobenzene	µg/kg	1	MCERTS	-	-	-	-	-
Butylbenzene	µg/kg	1	MCERTS	-	-	-	-	-

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Lab Sample Number				2414899	2414900	2414901	2414902	2414903
Sample Reference				WS214	WS203	WS204	WS204	WS217
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.10	0.10	0.20	0.60	0.10
Date Sampled				22/08/2022	23/08/2022	23/08/2022	23/08/2022	23/08/2022
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	-	-	-	-	-
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	-	-	-	-	-
Hexachlorobutadiene	µg/kg	1	MCERTS	-	-	-	-	-
1,2,3-Trichlorobenzene	µg/kg	1	ISO 17025	-	-	-	-	-

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Project / Site name: Begbroke

Your Order No: PO19941

Lab Sample Number				2414899	2414900	2414901	2414902	2414903
Sample Reference				WS214	WS203	WS204	WS204	WS217
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.10	0.10	0.20	0.60	0.10
Date Sampled				22/08/2022	23/08/2022	23/08/2022	23/08/2022	23/08/2022
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					

**SVOCs**

Parameter	Units	Limit of detection	Accreditation Status	2414899	2414900	2414901	2414902	2414903
Aniline	mg/kg	0.1	NONE	-	-	-	-	-
Phenol	mg/kg	0.2	ISO 17025	-	-	-	-	-
2-Chlorophenol	mg/kg	0.1	MCERTS	-	-	-	-	-
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	-	-	-	-	-
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	-	-	-	-	-
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	-	-	-	-	-
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	-	-	-	-	-
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	-	-	-	-	-
2-Methylphenol	mg/kg	0.3	MCERTS	-	-	-	-	-
Hexachloroethane	mg/kg	0.05	MCERTS	-	-	-	-	-
Nitrobenzene	mg/kg	0.3	MCERTS	-	-	-	-	-
4-Methylphenol	mg/kg	0.2	NONE	-	-	-	-	-
Isophorone	mg/kg	0.2	MCERTS	-	-	-	-	-
2-Nitrophenol	mg/kg	0.3	MCERTS	-	-	-	-	-
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	-	-	-	-	-
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	-	-	-	-	-
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	-	-	-	-	-
Naphthalene	mg/kg	0.05	MCERTS	-	-	-	-	-
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	-	-	-	-	-
4-Chloroaniline	mg/kg	0.1	NONE	-	-	-	-	-
Hexachlorobutadiene	mg/kg	0.1	MCERTS	-	-	-	-	-
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	-	-	-	-	-
2,4,6-Trichlorophenol	mg/kg	0.1	MCERTS	-	-	-	-	-
2,4,5-Trichlorophenol	mg/kg	0.2	MCERTS	-	-	-	-	-
2-Methylnaphthalene	mg/kg	0.1	NONE	-	-	-	-	-
2-Chloronaphthalene	mg/kg	0.1	MCERTS	-	-	-	-	-
Dimethylphthalate	mg/kg	0.1	MCERTS	-	-	-	-	-
2,6-Dinitrotoluene	mg/kg	0.1	MCERTS	-	-	-	-	-
Acenaphthylene	mg/kg	0.05	MCERTS	-	-	-	-	-
Acenaphthene	mg/kg	0.05	MCERTS	-	-	-	-	-
2,4-Dinitrotoluene	mg/kg	0.2	MCERTS	-	-	-	-	-
Dibenzofuran	mg/kg	0.2	MCERTS	-	-	-	-	-
4-Chlorophenyl phenyl ether	mg/kg	0.3	ISO 17025	-	-	-	-	-
Diethyl phthalate	mg/kg	0.2	MCERTS	-	-	-	-	-
4-Nitroaniline	mg/kg	0.2	MCERTS	-	-	-	-	-
Fluorene	mg/kg	0.05	MCERTS	-	-	-	-	-
Azobenzene	mg/kg	0.3	MCERTS	-	-	-	-	-
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	-	-	-	-	-
Hexachlorobenzene	mg/kg	0.3	MCERTS	-	-	-	-	-
Phenanthrene	mg/kg	0.05	MCERTS	-	-	-	-	-
Anthracene	mg/kg	0.05	MCERTS	-	-	-	-	-
Carbazole	mg/kg	0.3	MCERTS	-	-	-	-	-
Dibutyl phthalate	mg/kg	0.2	MCERTS	-	-	-	-	-
Anthraquinone	mg/kg	0.3	MCERTS	-	-	-	-	-
Fluoranthene	mg/kg	0.05	MCERTS	-	-	-	-	-
Pyrene	mg/kg	0.05	MCERTS	-	-	-	-	-
Butyl benzyl phthalate	mg/kg	0.3	ISO 17025	-	-	-	-	-
Benzo(a)anthracene	mg/kg	0.05	MCERTS	-	-	-	-	-
Chrysene	mg/kg	0.05	MCERTS	-	-	-	-	-
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	-	-	-	-	-
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	-	-	-	-	-

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Project / Site name: Begbroke

Your Order No: PO19941

Lab Sample Number	2414899	2414900	2414901	2414902	2414903			
Sample Reference	WS214	WS203	WS204	WS204	WS217			
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied			
Depth (m)	0.10	0.10	0.20	0.60	0.10			
Date Sampled	22/08/2022	23/08/2022	23/08/2022	23/08/2022	23/08/2022			
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied			
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Benzo(a)pyrene	mg/kg	0.05	MCERTS	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	-	-	-	-	-
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	-	-	-	-	-
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	-	-	-	-	-

**Pesticide and Herbicide Screen**

GCMS Pesticide Screen		N/A	NONE	-	-	None Detected	-	-
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U/S = Unsuitable Sample I/S = Insufficient Sample

Analytical Report Number: 22-82372

Project / Site name: Begbroke

Your Order No: PO19941

Lab Sample Number				2414904	2414905	2414906	2414907	2414908
Sample Reference				WS226	WS227	HP210	HP208	HP208
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.20	0.30	0.20	0.30	0.80
Date Sampled				23/08/2022	25/08/2022	25/08/2022	25/08/2022	25/08/2022
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	2.6	2.8	6	14	17
Total mass of sample received	kg	0.001	NONE	1.1	1.1	1.1	1.1	0.3

Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	GFI	GFI	GFI	GFI	GFI

#### General Inorganics

pH - Automated	pH Units	N/A	MCERTS	7.7	7.3	7.9	8.3	7.8
Free Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.028	0.032	0.037	0.2	0.9
Fraction Organic Carbon (FOC) Automated	N/A	0.001	MCERTS	0.018	0.017	0.022	0.013	0.029

#### Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
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#### Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.35	< 0.05	< 0.05
Pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.42	< 0.05	< 0.05
Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.21	< 0.05	< 0.05
Chrysene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.18	< 0.05	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.39	< 0.05	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.18	< 0.05	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.29	< 0.05	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.24	< 0.05	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.29	< 0.05	< 0.05

#### Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	< 0.80	< 0.80	2.55	< 0.80	< 0.80
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Analytical Report Number: 22-82372

Project / Site name: Begbroke

Your Order No: PO19941

Lab Sample Number				2414904	2414905	2414906	2414907	2414908
Sample Reference				WS226	WS227	HP210	HP208	HP208
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.20	0.30	0.20	0.30	0.80
Date Sampled				23/08/2022	25/08/2022	25/08/2022	25/08/2022	25/08/2022
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
<b>Heavy Metals / Metalloids</b>								
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	57	43	35	34	27
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	1.5	1.1	0.98	0.96	0.81
Boron (water soluble)	mg/kg	0.2	MCERTS	0.2	0.7	0.8	1.1	0.7
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	1.8	MCERTS	< 1.8	< 1.8	< 1.8	< 1.8	5.5
Chromium (III)	mg/kg	1	NONE	55	40	36	29	20
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	56	41	36	30	26
Copper (aqua regia extractable)	mg/kg	1	MCERTS	17	11	14	14	22
Lead (aqua regia extractable)	mg/kg	1	MCERTS	32	31	34	40	65
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	36	27	24	21	24
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	96	81	61	56	46
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	92	76	100	93	120

**Monoaromatics & Oxygenates**

Compound	Units	Limit of detection	Accreditation Status					
Benzene	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0	< 1.0
Toluene	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0	< 1.0
p & m-xylene	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0	< 1.0
o-xylene	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0	< 1.0

**Petroleum Hydrocarbons**

Compound	Units	Limit of detection	Accreditation Status					
TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.001	MCERTS	-	-	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.001	MCERTS	-	-	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.001	MCERTS	-	-	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	-	-	< 1.0	< 1.0	< 1.0
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	-	-	< 2.0	< 2.0	< 2.0
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	-	-	< 8.0	< 8.0	< 8.0
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	-	-	< 8.0	< 8.0	< 8.0
TPH-CWG - Aliphatic >EC16 - EC35	mg/kg	10	MCERTS	-	-	< 10	< 10	< 10
TPH-CWG - Aliphatic >EC35 - EC44	mg/kg	8.4	NONE	-	-	< 8.4	< 8.4	< 8.4
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	-	-	< 10	< 10	< 10
TPH-CWG - Aliphatic (EC5 - EC44)	mg/kg	10	NONE	-	-	< 10	< 10	< 10

Compound	Units	Limit of detection	Accreditation Status					
TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.001	MCERTS	-	-	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.001	MCERTS	-	-	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.001	MCERTS	-	-	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	-	-	< 1.0	< 1.0	< 1.0
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	-	-	< 2.0	< 2.0	< 2.0
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	-	-	< 10	< 10	< 10
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	-	-	< 10	< 10	< 10
TPH-CWG - Aromatic >EC35 - EC44	mg/kg	8.4	NONE	-	-	< 8.4	< 8.4	< 8.4
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	-	-	< 10	< 10	< 10
TPH-CWG - Aromatic (EC5 - EC44)	mg/kg	10	NONE	-	-	< 10	< 10	< 10

TPH Total C5 - C44	mg/kg	10	NONE	-	-	< 10	< 10	< 10
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Lab Sample Number				2414904	2414905	2414906	2414907	2414908
Sample Reference				WS226	WS227	HP210	HP208	HP208
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.20	0.30	0.20	0.30	0.80
Date Sampled				23/08/2022	25/08/2022	25/08/2022	25/08/2022	25/08/2022
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
<b>VOCs</b>								
Chloromethane	µg/kg	1	ISO 17025	-	-	-	-	< 1.0
Chloroethane	µg/kg	1	NONE	-	-	-	-	< 1.0
Bromomethane	µg/kg	1	ISO 17025	-	-	-	-	< 1.0
Vinyl Chloride	µg/kg	1	NONE	-	-	-	-	< 1.0
Trichlorofluoromethane	µg/kg	1	NONE	-	-	-	-	< 1.0
1,1-Dichloroethene	µg/kg	1	NONE	-	-	-	-	< 1.0
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	-	-	-	-	< 1.0
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	-	-	-	-	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	-	-	-	-	< 1.0
1,1-Dichloroethane	µg/kg	1	MCERTS	-	-	-	-	< 1.0
2,2-Dichloropropane	µg/kg	1	MCERTS	-	-	-	-	< 1.0
Trichloromethane	µg/kg	1	MCERTS	-	-	-	-	< 1.0
1,1,1-Trichloroethane	µg/kg	1	MCERTS	-	-	-	-	< 1.0
1,2-Dichloroethane	µg/kg	1	MCERTS	-	-	-	-	< 1.0
1,1-Dichloropropene	µg/kg	1	MCERTS	-	-	-	-	< 1.0
Trans-1,2-dichloroethene	µg/kg	1	NONE	-	-	-	-	< 1.0
Benzene	µg/kg	1	MCERTS	-	-	-	-	< 1.0
Tetrachloromethane	µg/kg	1	MCERTS	-	-	-	-	< 1.0
1,2-Dichloropropane	µg/kg	1	MCERTS	-	-	-	-	< 1.0
Trichloroethene	µg/kg	1	MCERTS	-	-	-	-	< 1.0
Dibromomethane	µg/kg	1	MCERTS	-	-	-	-	< 1.0
Bromodichloromethane	µg/kg	1	MCERTS	-	-	-	-	< 1.0
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	-	-	-	-	< 1.0
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	-	-	-	-	< 1.0
Toluene	µg/kg	1	MCERTS	-	-	-	-	< 1.0
1,1,2-Trichloroethane	µg/kg	1	MCERTS	-	-	-	-	< 1.0
1,3-Dichloropropane	µg/kg	1	ISO 17025	-	-	-	-	< 1.0
Dibromochloromethane	µg/kg	1	ISO 17025	-	-	-	-	< 1.0
Tetrachloroethene	µg/kg	1	NONE	-	-	-	-	< 1.0
1,2-Dibromoethane	µg/kg	1	ISO 17025	-	-	-	-	< 1.0
Chlorobenzene	µg/kg	1	MCERTS	-	-	-	-	< 1.0
1,1,1,2-Tetrachloroethane	µg/kg	1	MCERTS	-	-	-	-	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	-	-	-	-	< 1.0
p & m-Xylene	µg/kg	1	MCERTS	-	-	-	-	< 1.0
Styrene	µg/kg	1	MCERTS	-	-	-	-	< 1.0
Tribromomethane	µg/kg	1	NONE	-	-	-	-	< 1.0
o-Xylene	µg/kg	1	MCERTS	-	-	-	-	< 1.0
1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	-	-	-	-	< 1.0
Isopropylbenzene	µg/kg	1	MCERTS	-	-	-	-	< 1.0
Bromobenzene	µg/kg	1	MCERTS	-	-	-	-	< 1.0
n-Propylbenzene	µg/kg	1	ISO 17025	-	-	-	-	< 1.0
2-Chlorotoluene	µg/kg	1	MCERTS	-	-	-	-	< 1.0
4-Chlorotoluene	µg/kg	1	MCERTS	-	-	-	-	< 1.0
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	-	-	-	-	< 1.0
tert-Butylbenzene	µg/kg	1	MCERTS	-	-	-	-	< 1.0
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	-	-	-	-	< 1.0
sec-Butylbenzene	µg/kg	1	MCERTS	-	-	-	-	< 1.0
1,3-Dichlorobenzene	µg/kg	1	ISO 17025	-	-	-	-	< 1.0
p-Isopropyltoluene	µg/kg	1	ISO 17025	-	-	-	-	< 1.0
1,2-Dichlorobenzene	µg/kg	1	MCERTS	-	-	-	-	< 1.0
1,4-Dichlorobenzene	µg/kg	1	MCERTS	-	-	-	-	< 1.0
Butylbenzene	µg/kg	1	MCERTS	-	-	-	-	< 1.0

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Lab Sample Number				2414904	2414905	2414906	2414907	2414908
Sample Reference				WS226	WS227	HP210	HP208	HP208
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.20	0.30	0.20	0.30	0.80
Date Sampled				23/08/2022	25/08/2022	25/08/2022	25/08/2022	25/08/2022
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
				1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	-
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	-	-	-	-	< 1.0
Hexachlorobutadiene	µg/kg	1	MCERTS	-	-	-	-	< 1.0
1,2,3-Trichlorobenzene	µg/kg	1	ISO 17025	-	-	-	-	< 1.0



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Lab Sample Number				2414904	2414905	2414906	2414907	2414908
Sample Reference				WS226	WS227	HP210	HP208	HP208
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.20	0.30	0.20	0.30	0.80
Date Sampled				23/08/2022	25/08/2022	25/08/2022	25/08/2022	25/08/2022
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					

**SVOCs**

Parameter	Units	Limit of detection	Accreditation Status	2414904	2414905	2414906	2414907	2414908
Aniline	mg/kg	0.1	NONE	-	-	-	-	< 0.1
Phenol	mg/kg	0.2	ISO 17025	-	-	-	-	< 0.2
2-Chlorophenol	mg/kg	0.1	MCERTS	-	-	-	-	< 0.1
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	-	-	-	-	< 0.2
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	-	-	-	-	< 0.2
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	-	-	-	-	< 0.1
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	-	-	-	-	< 0.2
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	-	-	-	-	< 0.1
2-Methylphenol	mg/kg	0.3	MCERTS	-	-	-	-	< 0.3
Hexachloroethane	mg/kg	0.05	MCERTS	-	-	-	-	< 0.05
Nitrobenzene	mg/kg	0.3	MCERTS	-	-	-	-	< 0.3
4-Methylphenol	mg/kg	0.2	NONE	-	-	-	-	< 0.2
Isophorone	mg/kg	0.2	MCERTS	-	-	-	-	< 0.2
2-Nitrophenol	mg/kg	0.3	MCERTS	-	-	-	-	< 0.3
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	-	-	-	-	< 0.3
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	-	-	-	-	< 0.3
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	-	-	-	-	< 0.3
Naphthalene	mg/kg	0.05	MCERTS	-	-	-	-	< 0.05
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	-	-	-	-	< 0.3
4-Chloroaniline	mg/kg	0.1	NONE	-	-	-	-	< 0.1
Hexachlorobutadiene	mg/kg	0.1	MCERTS	-	-	-	-	< 0.1
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	-	-	-	-	< 0.1
2,4,6-Trichlorophenol	mg/kg	0.1	MCERTS	-	-	-	-	< 0.1
2,4,5-Trichlorophenol	mg/kg	0.2	MCERTS	-	-	-	-	< 0.2
2-Methylnaphthalene	mg/kg	0.1	NONE	-	-	-	-	< 0.1
2-Chloronaphthalene	mg/kg	0.1	MCERTS	-	-	-	-	< 0.1
Dimethylphthalate	mg/kg	0.1	MCERTS	-	-	-	-	< 0.1
2,6-Dinitrotoluene	mg/kg	0.1	MCERTS	-	-	-	-	< 0.1
Acenaphthylene	mg/kg	0.05	MCERTS	-	-	-	-	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	-	-	-	-	< 0.05
2,4-Dinitrotoluene	mg/kg	0.2	MCERTS	-	-	-	-	< 0.2
Dibenzofuran	mg/kg	0.2	MCERTS	-	-	-	-	< 0.2
4-Chlorophenyl phenyl ether	mg/kg	0.3	ISO 17025	-	-	-	-	< 0.3
Diethyl phthalate	mg/kg	0.2	MCERTS	-	-	-	-	< 0.2
4-Nitroaniline	mg/kg	0.2	MCERTS	-	-	-	-	< 0.2
Fluorene	mg/kg	0.05	MCERTS	-	-	-	-	< 0.05
Azobenzene	mg/kg	0.3	MCERTS	-	-	-	-	< 0.3
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	-	-	-	-	< 0.2
Hexachlorobenzene	mg/kg	0.3	MCERTS	-	-	-	-	< 0.3
Phenanthrene	mg/kg	0.05	MCERTS	-	-	-	-	< 0.05
Anthracene	mg/kg	0.05	MCERTS	-	-	-	-	< 0.05
Carbazole	mg/kg	0.3	MCERTS	-	-	-	-	< 0.3
Dibutyl phthalate	mg/kg	0.2	MCERTS	-	-	-	-	< 0.2
Anthraquinone	mg/kg	0.3	MCERTS	-	-	-	-	< 0.3
Fluoranthene	mg/kg	0.05	MCERTS	-	-	-	-	< 0.05
Pyrene	mg/kg	0.05	MCERTS	-	-	-	-	< 0.05
Butyl benzyl phthalate	mg/kg	0.3	ISO 17025	-	-	-	-	< 0.3
Benzo(a)anthracene	mg/kg	0.05	MCERTS	-	-	-	-	< 0.05
Chrysene	mg/kg	0.05	MCERTS	-	-	-	-	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	-	-	-	-	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	-	-	-	-	< 0.05

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Lab Sample Number	2414904				2414905				2414906				2414907				2414908			
Sample Reference	WS226				WS227				HP210				HP208				HP208			
Sample Number	None Supplied				None Supplied				None Supplied				None Supplied				None Supplied			
Depth (m)	0.20				0.30				0.20				0.30				0.80			
Date Sampled	23/08/2022				25/08/2022				25/08/2022				25/08/2022				25/08/2022			
Time Taken	None Supplied				None Supplied				None Supplied				None Supplied				None Supplied			
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status																	
Benzo(a)pyrene	mg/kg	0.05	MCERTS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

**Pesticide and Herbicide Screen**

GCMS Pesticide Screen		N/A	NONE	-	-	-	-	-
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U/S = Unsuitable Sample I/S = Insufficient Sample

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\* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
2414894	WS213	None Supplied	0.1	Brown loam and sand with gravel and vegetation.
2414895	WS213	None Supplied	0.5	Brown loam and sand with gravel and vegetation.
2414896	WS205	None Supplied	0.2	Brown loam and clay with gravel and vegetation.
2414897	WS205	None Supplied	0.6	Brown clay and loam with gravel.
2414898	WS209	None Supplied	0.3	Brown loam and sand with gravel and plastic.
2414899	WS214	None Supplied	0.1	Brown loam and sand with gravel and vegetation.
2414900	WS203	None Supplied	0.1	Brown loam and sand with gravel and vegetation.
2414901	WS204	None Supplied	0.2	Brown loam and sand with gravel and vegetation.
2414902	WS204	None Supplied	0.6	Brown loam and sand with gravel and vegetation.
2414903	WS217	None Supplied	0.1	Brown loam and sand with gravel and vegetation.
2414904	WS226	None Supplied	0.2	Brown loam and sand with gravel and vegetation.
2414905	WS227	None Supplied	0.3	Brown loam and sand with gravel and vegetation.
2414906	HP210	None Supplied	0.2	Brown loam and sand with gravel and chalk.
2414907	HP208	None Supplied	0.3	Brown loam and sand with gravel and brick.
2414908	HP208	None Supplied	0.8	Brown loam and clay with gravel and vegetation.

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**Water matrix abbreviations:**

**Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)**

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Sulphate, water soluble, in soil (16hr extraction)	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In house method.	L038-PL	D	MCERTS
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with dispersion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES.	In-house method based on Second Site Properties version 3	L038-PL	D	MCERTS
Free cyanide in soil	Determination of free cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	MCERTS
Moisture Content	Moisture content, determined gravimetrically. (30 oC)	In house method.	L019-UK/PL	W	NONE
Monohydric phenols in soil	Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	MCERTS
Speciated EPA-16 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement.	In house method.	L099-PL	D	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Semi-volatile organic compounds in soil	Determination of semi-volatile organic compounds in soil by extraction in dichloromethane and hexane followed by GC-MS.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
Volatile organic compounds in soil	Determination of volatile organic compounds in soil by headspace GC-MS.	In-house method based on USEPA8260	L073B-PL	W	MCERTS
BTEX and MTBE in soil (Monoaromatics)	Determination of BTEX in soil by headspace GC-MS.	In-house method based on USEPA8260	L073B-PL	W	MCERTS
TPH Chromatogram in Soil	TPH Chromatogram in Soil.	In-house method	L064-PL	D	NONE
Cr (III) in soil	In-house method by calculation from total Cr and Cr VI.	In-house method by calculation	L080-PL	W	NONE
TPHCWG (Soil)	Determination of hexane extractable hydrocarbons in soil by GC-MS/GC-FID.	In-house method with silica gel split/clean up.	L088/76-PL	W	MCERTS
TPH in (Soil)	Determination of TPH bands by HS-GC-MS/GC-FID	In-house method, TPH with carbon banding and silica gel split/cleanup.	L076-PL	D	MCERTS

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Project / Site name: Begbroke

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
GC Pesticide Screen (TIC)	Analysis of unknown pesticides by GCMS	GC Pesticide Screen (TIC)	L064B	D	NONE
Fraction Organic Carbon FOC Automated	Determination of fraction of organic carbon in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	In house method	L009	D	MCERTS
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in NaOH and addition of 1,5 diphenylcarbazide followed by colorimetry.	In-house method	L080-PL	W	MCERTS

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.

For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.

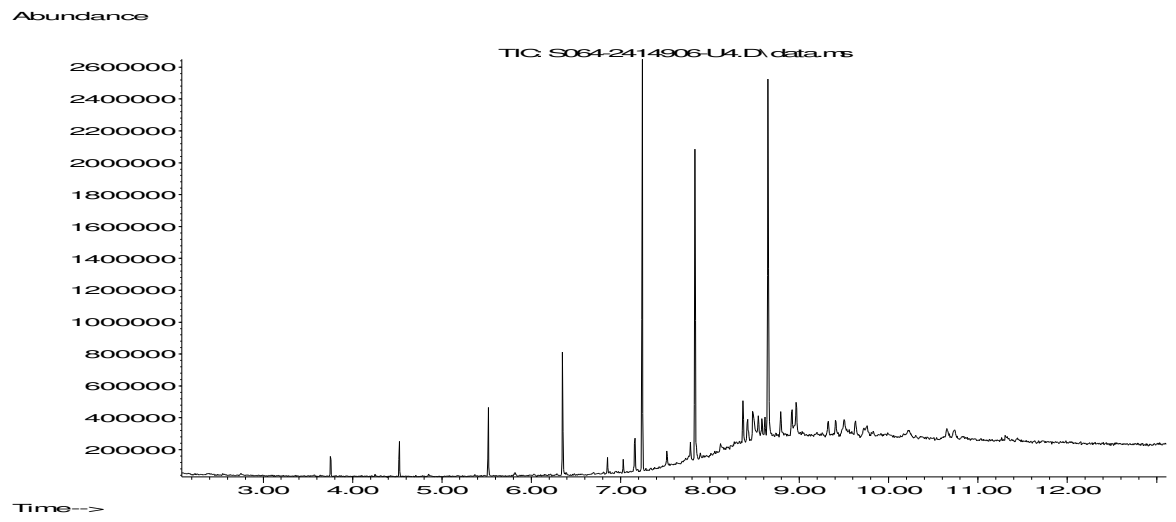
Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

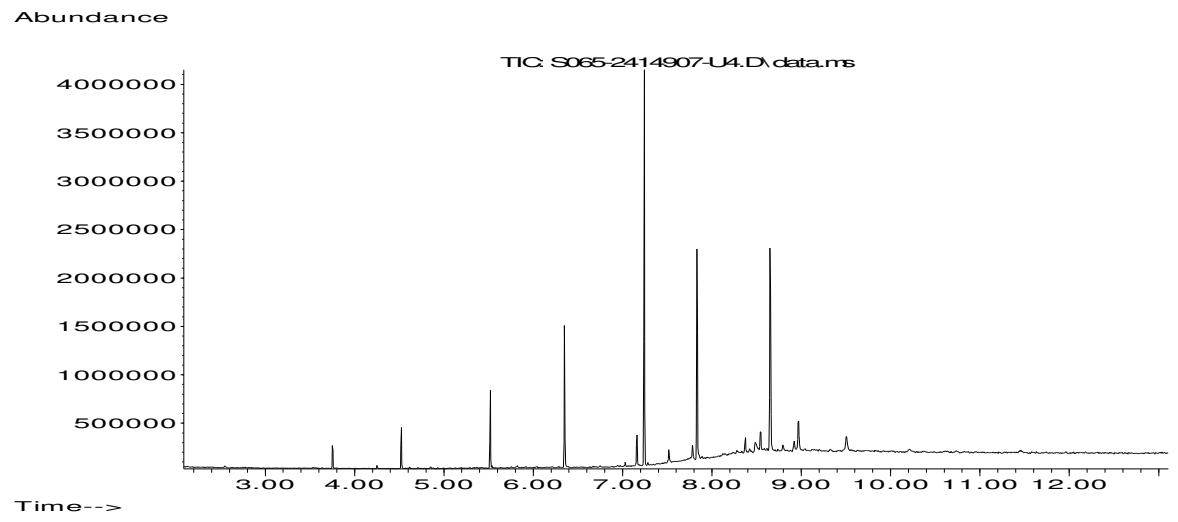
Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.

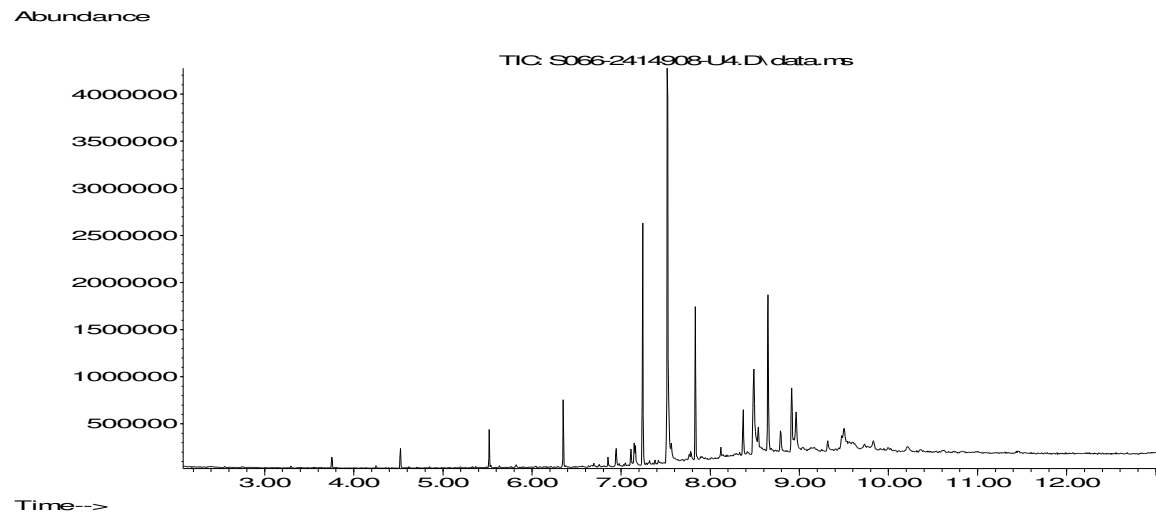
## Information in Support of Analytical Results

### List of HWOL Acronyms and Operators

Acronym	Descriptions
HS	Headspace Analysis
MS	Mass spectrometry
FID	Flame Ionisation Detector
GC	Gas Chromatography
EH	Extractable Hydrocarbons (i.e. everything extracted by the solvent(s))
CU	Clean-up - e.g. by Florisil®, silica gel
1D	GC - Single coil/column gas chromatography
2D	GC-GC - Double coil/column gas chromatography
Total	Aliphatics & Aromatics
AL	Aliphatics
AR	Aromatics
#1	EH_2D_Total but with humics mathematically subtracted
#2	EH_2D_Total but with fatty acids mathematically subtracted
_	Operator - understore to separate acronyms (exception for +)
+	Operator to indicate cumulative e.g. EH+HS_Total or EH_CU+HS_Total









## Sample Deviation Report



**Analytical Report Number : 22-82372**

**Project / Site name: Begbroke**

This deviation report indicates the sample and test deviations that apply to the samples submitted for analysis. Please note that the associated result(s) may be unreliable and should be interpreted with care.

Sample ID	Other ID	Sample Type	Lab Sample Number	Sample Deviation	Test Name	Test Ref	Test Deviation
HP208	None Supplied	S	2414907	c	Free cyanide in soil	L080-PL	c
HP208	None Supplied	S	2414908	c	Free cyanide in soil	L080-PL	c
HP210	None Supplied	S	2414906	c	Free cyanide in soil	L080-PL	c
WS203	None Supplied	S	2414900	c	Free cyanide in soil	L080-PL	c
WS204	None Supplied	S	2414901	c	Free cyanide in soil	L080-PL	c
WS204	None Supplied	S	2414902	c	Free cyanide in soil	L080-PL	c
WS205	None Supplied	S	2414896	c	Free cyanide in soil	L080-PL	c
WS205	None Supplied	S	2414897	c	Free cyanide in soil	L080-PL	c
WS209	None Supplied	S	2414898	c	Free cyanide in soil	L080-PL	c
WS213	None Supplied	S	2414894	c	Free cyanide in soil	L080-PL	c
WS213	None Supplied	S	2414895	c	Free cyanide in soil	L080-PL	c
WS214	None Supplied	S	2414899	c	Free cyanide in soil	L080-PL	c
WS217	None Supplied	S	2414903	c	Free cyanide in soil	L080-PL	c
WS226	None Supplied	S	2414904	c	Free cyanide in soil	L080-PL	c
WS227	None Supplied	S	2414905	c	Free cyanide in soil	L080-PL	c



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## **Analytical Report Number : 22-82408**

<b>Project / Site name:</b>	Begbroke	<b>Samples received on:</b>	06/09/2022
<b>Your job number:</b>	19114	<b>Samples instructed on/ Analysis started on:</b>	06/09/2022
<b>Your order number:</b>	PO19941	<b>Analysis completed by:</b>	13/09/2022
<b>Report Issue Number:</b>	1	<b>Report issued on:</b>	13/09/2022
<b>Samples Analysed:</b>	15 soil samples		

**Signed:** 

Anna Goc  
Junior Reporting Specialist  
**For & on behalf of i2 Analytical Ltd.**

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting

Excel copies of reports are only valid when accompanied by this PDF certificate.

Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement. Application of uncertainty of measurement would provide a range within which the true result lies. An estimate of measurement uncertainty can be provided on request.

Analytical Report Number: 22-82408

Project / Site name: Begbroke

Your Order No: PO19941

Lab Sample Number				2415132	2415133	2415134	2415135	2415136
Sample Reference				HP207	HP209	WS232	WS230	WS211
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.70	0.30	0.20	0.20	0.10
Date Sampled				25/08/2022	25/08/2022	26/08/2022	26/08/2022	26/08/2022
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	27
Moisture Content	%	0.01	NONE	9.1	4.5	6.8	4.1	3.6
Total mass of sample received	kg	0.001	NONE	0.4	0.3	0.8	0.8	0.8

Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	SZS	SZS	SZS	SZS	SZS

#### General Inorganics

pH - Automated	pH Units	N/A	MCERTS	8.2	8.5	8	7.6	8.1
Free Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Water Soluble SO <sub>4</sub> 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.0022	0.0093	0.0058	0.0037	0.02
Fraction Organic Carbon (FOC) Automated	N/A	0.001	MCERTS	0.0021	0.0053	0.011	0.017	0.012

#### Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
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#### Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Chrysene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05

#### Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80
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#### Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	73	49	20	44	45
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	1.6	1.5	0.87	1.3	1.1
Boron (water soluble)	mg/kg	0.2	MCERTS	0.4	0.9	0.9	1.3	0.7
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	1.8	MCERTS	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8
Chromium (III)	mg/kg	1	NONE	58	52	32	44	39
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	59	52	33	46	40
Copper (aqua regia extractable)	mg/kg	1	MCERTS	7.5	14	13	14	13
Lead (aqua regia extractable)	mg/kg	1	MCERTS	17	16	25	26	28
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	36	37	19	30	27
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	120	98	52	83	71
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	89	99	59	89	95

Analytical Report Number: 22-82408

Project / Site name: Begbroke

Your Order No: PO19941

Lab Sample Number	2415132			2415133			2415134			2415135			2415136		
Sample Reference	HP207			HP209			WS232			WS230			WS211		
Sample Number	None Supplied			None Supplied			None Supplied			None Supplied			None Supplied		
Depth (m)	0.70			0.30			0.20			0.20			0.10		
Date Sampled	25/08/2022			25/08/2022			26/08/2022			26/08/2022			26/08/2022		
Time Taken	None Supplied			None Supplied			None Supplied			None Supplied			None Supplied		
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status												

#### Monoaromatics & Oxygenates

Compound	Units	Limit of detection	Accreditation Status	2415132	2415133	2415134	2415135	2415136
Benzene	µg/kg	1	MCERTS	-	< 1.0	-	-	-
Toluene	µg/kg	1	MCERTS	-	< 1.0	-	-	-
Ethylbenzene	µg/kg	1	MCERTS	-	< 1.0	-	-	-
p & m-xylene	µg/kg	1	MCERTS	-	< 1.0	-	-	-
o-xylene	µg/kg	1	MCERTS	-	< 1.0	-	-	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	-	< 1.0	-	-	-

#### Petroleum Hydrocarbons

Compound	Units	Limit of detection	Accreditation Status	2415132	2415133	2415134	2415135	2415136
TPH-CWG - Aliphatic >EC5 - EC6 <sub>HS_1D_AL</sub>	mg/kg	0.001	MCERTS	-	< 0.001	-	-	-
TPH-CWG - Aliphatic >EC6 - EC8 <sub>HS_1D_AL</sub>	mg/kg	0.001	MCERTS	-	< 0.001	-	-	-
TPH-CWG - Aliphatic >EC8 - EC10 <sub>HS_1D_AL</sub>	mg/kg	0.001	MCERTS	-	< 0.001	-	-	-
TPH-CWG - Aliphatic >EC10 - EC12 <sub>EH_CU_1D_AL</sub>	mg/kg	1	MCERTS	-	< 1.0	-	-	-
TPH-CWG - Aliphatic >EC12 - EC16 <sub>EH_CU_1D_AL</sub>	mg/kg	2	MCERTS	-	< 2.0	-	-	-
TPH-CWG - Aliphatic >EC16 - EC21 <sub>EH_CU_1D_AL</sub>	mg/kg	8	MCERTS	-	< 8.0	-	-	-
TPH-CWG - Aliphatic >EC21 - EC35 <sub>EH_CU_1D_AL</sub>	mg/kg	8	MCERTS	-	< 8.0	-	-	-
TPH-CWG - Aliphatic >EC16 - EC35 <sub>EH_CU_1D_AL</sub>	mg/kg	10	MCERTS	-	< 10	-	-	-
TPH-CWG - Aliphatic > EC35 - EC44 <sub>EH_CU_1D_AL</sub>	mg/kg	8.4	NONE	-	< 8.4	-	-	-
TPH-CWG - Aliphatic (EC5 - EC35) <sub>EH_CU+HS_1D_AL</sub>	mg/kg	10	MCERTS	-	< 10	-	-	-
TPH-CWG - Aliphatic (EC5 - EC44) <sub>EH_CU+HS_1D_AL</sub>	mg/kg	10	NONE	-	< 10	-	-	-

Compound	Units	Limit of detection	Accreditation Status	2415132	2415133	2415134	2415135	2415136
TPH-CWG - Aromatic >EC5 - EC7 <sub>HS_1D_AR</sub>	mg/kg	0.001	MCERTS	-	< 0.001	-	-	-
TPH-CWG - Aromatic >EC7 - EC8 <sub>HS_1D_AR</sub>	mg/kg	0.001	MCERTS	-	< 0.001	-	-	-
TPH-CWG - Aromatic >EC8 - EC10 <sub>HS_1D_AR</sub>	mg/kg	0.001	MCERTS	-	< 0.001	-	-	-
TPH-CWG - Aromatic >EC10 - EC12 <sub>EH_CU_1D_AR</sub>	mg/kg	1	MCERTS	-	< 1.0	-	-	-
TPH-CWG - Aromatic >EC12 - EC16 <sub>EH_CU_1D_AR</sub>	mg/kg	2	MCERTS	-	< 2.0	-	-	-
TPH-CWG - Aromatic >EC16 - EC21 <sub>EH_CU_1D_AR</sub>	mg/kg	10	MCERTS	-	< 10	-	-	-
TPH-CWG - Aromatic >EC21 - EC35 <sub>EH_CU_1D_AR</sub>	mg/kg	10	MCERTS	-	< 10	-	-	-
TPH-CWG - Aromatic > EC35 - EC44 <sub>EH_CU_1D_AR</sub>	mg/kg	8.4	NONE	-	< 8.4	-	-	-
TPH-CWG - Aromatic (EC5 - EC35) <sub>EH_CU+HS_1D_AR</sub>	mg/kg	10	MCERTS	-	< 10	-	-	-
TPH-CWG - Aromatic (EC5 - EC44) <sub>EH_CU+HS_1D_AR</sub>	mg/kg	10	NONE	-	< 10	-	-	-

TPH Total C5 - C44 <sub>EH_CU+HS_1D_TOTAL</sub>	mg/kg	10	NONE	-	< 10	-	-	-
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Analytical Report Number: 22-82408

Project / Site name: Begbroke

Your Order No: PO19941

Lab Sample Number				2415132	2415133	2415134	2415135	2415136
Sample Reference				HP207	HP209	WS232	WS230	WS211
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.70	0.30	0.20	0.20	0.10
Date Sampled				25/08/2022	25/08/2022	26/08/2022	26/08/2022	26/08/2022
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					

**VOCs**

Compound	Units	Limit of detection	Accreditation Status	2415132	2415133	2415134	2415135	2415136
Chloromethane	µg/kg	1	ISO 17025	-	< 1.0	-	-	-
Chloroethane	µg/kg	1	NONE	-	< 1.0	-	-	-
Bromomethane	µg/kg	1	ISO 17025	-	< 1.0	-	-	-
Vinyl Chloride	µg/kg	1	NONE	-	< 1.0	-	-	-
Trichlorofluoromethane	µg/kg	1	NONE	-	< 1.0	-	-	-
1,1-Dichloroethene	µg/kg	1	NONE	-	< 1.0	-	-	-
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	-	< 1.0	-	-	-
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	-	< 1.0	-	-	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	-	< 1.0	-	-	-
1,1-Dichloroethane	µg/kg	1	MCERTS	-	< 1.0	-	-	-
2,2-Dichloropropane	µg/kg	1	MCERTS	-	< 1.0	-	-	-
Trichloromethane	µg/kg	1	MCERTS	-	< 1.0	-	-	-
1,1,1-Trichloroethane	µg/kg	1	MCERTS	-	< 1.0	-	-	-
1,2-Dichloroethane	µg/kg	1	MCERTS	-	< 1.0	-	-	-
1,1-Dichloropropene	µg/kg	1	MCERTS	-	< 1.0	-	-	-
Trans-1,2-dichloroethene	µg/kg	1	NONE	-	< 1.0	-	-	-
Benzene	µg/kg	1	MCERTS	-	< 1.0	-	-	-
Tetrachloromethane	µg/kg	1	MCERTS	-	< 1.0	-	-	-
1,2-Dichloropropane	µg/kg	1	MCERTS	-	< 1.0	-	-	-
Trichloroethene	µg/kg	1	MCERTS	-	< 1.0	-	-	-
Dibromomethane	µg/kg	1	MCERTS	-	< 1.0	-	-	-
Bromodichloromethane	µg/kg	1	MCERTS	-	< 1.0	-	-	-
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	-	< 1.0	-	-	-
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	-	< 1.0	-	-	-
Toluene	µg/kg	1	MCERTS	-	< 1.0	-	-	-
1,1,2-Trichloroethane	µg/kg	1	MCERTS	-	< 1.0	-	-	-
1,3-Dichloropropane	µg/kg	1	ISO 17025	-	< 1.0	-	-	-
Dibromochloromethane	µg/kg	1	ISO 17025	-	< 1.0	-	-	-
Tetrachloroethene	µg/kg	1	NONE	-	< 1.0	-	-	-
1,2-Dibromoethane	µg/kg	1	ISO 17025	-	< 1.0	-	-	-
Chlorobenzene	µg/kg	1	MCERTS	-	< 1.0	-	-	-
1,1,1,2-Tetrachloroethane	µg/kg	1	MCERTS	-	< 1.0	-	-	-
Ethylbenzene	µg/kg	1	MCERTS	-	< 1.0	-	-	-
p & m-Xylene	µg/kg	1	MCERTS	-	< 1.0	-	-	-
Styrene	µg/kg	1	MCERTS	-	< 1.0	-	-	-
Tribromomethane	µg/kg	1	NONE	-	< 1.0	-	-	-
o-Xylene	µg/kg	1	MCERTS	-	< 1.0	-	-	-
1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	-	< 1.0	-	-	-
Isopropylbenzene	µg/kg	1	MCERTS	-	< 1.0	-	-	-
Bromobenzene	µg/kg	1	MCERTS	-	< 1.0	-	-	-
n-Propylbenzene	µg/kg	1	ISO 17025	-	< 1.0	-	-	-
2-Chlorotoluene	µg/kg	1	MCERTS	-	< 1.0	-	-	-
4-Chlorotoluene	µg/kg	1	MCERTS	-	< 1.0	-	-	-
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	-	< 1.0	-	-	-
tert-Butylbenzene	µg/kg	1	MCERTS	-	< 1.0	-	-	-
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	-	< 1.0	-	-	-
sec-Butylbenzene	µg/kg	1	MCERTS	-	< 1.0	-	-	-
1,3-Dichlorobenzene	µg/kg	1	ISO 17025	-	< 1.0	-	-	-
p-Isopropyltoluene	µg/kg	1	ISO 17025	-	< 1.0	-	-	-
1,2-Dichlorobenzene	µg/kg	1	MCERTS	-	< 1.0	-	-	-
1,4-Dichlorobenzene	µg/kg	1	MCERTS	-	< 1.0	-	-	-
Butylbenzene	µg/kg	1	MCERTS	-	< 1.0	-	-	-

Analytical Report Number: 22-82408

Project / Site name: Begbroke

Your Order No: PO19941

Lab Sample Number				2415132	2415133	2415134	2415135	2415136
Sample Reference				HP207	HP209	WS232	WS230	WS211
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.70	0.30	0.20	0.20	0.10
Date Sampled				25/08/2022	25/08/2022	26/08/2022	26/08/2022	26/08/2022
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	-	< 1.0	-	-	-
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	-	< 1.0	-	-	-
Hexachlorobutadiene	µg/kg	1	MCERTS	-	< 1.0	-	-	-
1,2,3-Trichlorobenzene	µg/kg	1	ISO 17025	-	< 1.0	-	-	-

Analytical Report Number: 22-82408

Project / Site name: Begbroke

Your Order No: PO19941

Lab Sample Number				2415132	2415133	2415134	2415135	2415136
Sample Reference				HP207	HP209	WS232	WS230	WS211
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.70	0.30	0.20	0.20	0.10
Date Sampled				25/08/2022	25/08/2022	26/08/2022	26/08/2022	26/08/2022
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					

**SVOCs**

Analytical Parameter	Units	Limit of detection	Accreditation Status	2415132	2415133	2415134	2415135	2415136
Aniline	mg/kg	0.1	NONE	-	< 0.1	-	-	-
Phenol	mg/kg	0.2	ISO 17025	-	< 0.2	-	-	-
2-Chlorophenol	mg/kg	0.1	MCERTS	-	< 0.1	-	-	-
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	-	< 0.2	-	-	-
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	-	< 0.2	-	-	-
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	-	< 0.1	-	-	-
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	-	< 0.2	-	-	-
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	-	< 0.1	-	-	-
2-Methylphenol	mg/kg	0.3	MCERTS	-	< 0.3	-	-	-
Hexachloroethane	mg/kg	0.05	MCERTS	-	< 0.05	-	-	-
Nitrobenzene	mg/kg	0.3	MCERTS	-	< 0.3	-	-	-
4-Methylphenol	mg/kg	0.2	NONE	-	< 0.2	-	-	-
Isophorone	mg/kg	0.2	MCERTS	-	< 0.2	-	-	-
2-Nitrophenol	mg/kg	0.3	MCERTS	-	< 0.3	-	-	-
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	-	< 0.3	-	-	-
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	-	< 0.3	-	-	-
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	-	< 0.3	-	-	-
Naphthalene	mg/kg	0.05	MCERTS	-	< 0.05	-	-	-
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	-	< 0.3	-	-	-
4-Chloroaniline	mg/kg	0.1	NONE	-	< 0.1	-	-	-
Hexachlorobutadiene	mg/kg	0.1	MCERTS	-	< 0.1	-	-	-
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	-	< 0.1	-	-	-
2,4,6-Trichlorophenol	mg/kg	0.1	MCERTS	-	< 0.1	-	-	-
2,4,5-Trichlorophenol	mg/kg	0.2	MCERTS	-	< 0.2	-	-	-
2-Methylnaphthalene	mg/kg	0.1	NONE	-	< 0.1	-	-	-
2-Chloronaphthalene	mg/kg	0.1	MCERTS	-	< 0.1	-	-	-
Dimethylphthalate	mg/kg	0.1	MCERTS	-	< 0.1	-	-	-
2,6-Dinitrotoluene	mg/kg	0.1	MCERTS	-	< 0.1	-	-	-
Acenaphthylene	mg/kg	0.05	MCERTS	-	< 0.05	-	-	-
Acenaphthene	mg/kg	0.05	MCERTS	-	< 0.05	-	-	-
2,4-Dinitrotoluene	mg/kg	0.2	MCERTS	-	< 0.2	-	-	-
Dibenzofuran	mg/kg	0.2	MCERTS	-	< 0.2	-	-	-
4-Chlorophenyl phenyl ether	mg/kg	0.3	ISO 17025	-	< 0.3	-	-	-
Diethyl phthalate	mg/kg	0.2	MCERTS	-	< 0.2	-	-	-
4-Nitroaniline	mg/kg	0.2	MCERTS	-	< 0.2	-	-	-
Fluorene	mg/kg	0.05	MCERTS	-	< 0.05	-	-	-
Azobenzene	mg/kg	0.3	MCERTS	-	< 0.3	-	-	-
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	-	< 0.2	-	-	-
Hexachlorobenzene	mg/kg	0.3	MCERTS	-	< 0.3	-	-	-
Phenanthrene	mg/kg	0.05	MCERTS	-	< 0.05	-	-	-
Anthracene	mg/kg	0.05	MCERTS	-	< 0.05	-	-	-
Carbazole	mg/kg	0.3	MCERTS	-	< 0.3	-	-	-
Dibutyl phthalate	mg/kg	0.2	MCERTS	-	< 0.2	-	-	-
Anthraquinone	mg/kg	0.3	MCERTS	-	< 0.3	-	-	-
Fluoranthene	mg/kg	0.05	MCERTS	-	< 0.05	-	-	-
Pyrene	mg/kg	0.05	MCERTS	-	< 0.05	-	-	-
Butyl benzyl phthalate	mg/kg	0.3	ISO 17025	-	< 0.3	-	-	-
Benzo(a)anthracene	mg/kg	0.05	MCERTS	-	< 0.05	-	-	-
Chrysene	mg/kg	0.05	MCERTS	-	< 0.05	-	-	-
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	-	< 0.05	-	-	-
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	-	< 0.05	-	-	-
Benzo(a)pyrene	mg/kg	0.05	MCERTS	-	< 0.05	-	-	-

Analytical Report Number: 22-82408

Project / Site name: Begbroke

Your Order No: PO19941

Lab Sample Number				2415132	2415133	2415134	2415135	2415136
Sample Reference				HP207	HP209	WS232	WS230	WS211
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.70	0.30	0.20	0.20	0.10
Date Sampled				25/08/2022	25/08/2022	26/08/2022	26/08/2022	26/08/2022
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
				Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	-
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	-	< 0.05	-	-	-
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	-	< 0.05	-	-	-

**Pesticide and Herbicide Screen**

GCMS Pesticide Screen		N/A	NONE	-	-	None Detected	None Detected	None Detected

U/S = Unsuitable Sample I/S = Insufficient Sample



Analytical Report Number: 22-82408

Project / Site name: Begbroke

Your Order No: PO19941

Lab Sample Number				2415137	2415138	2415139	2415140	2415141
Sample Reference				BH201	BH202	BH204	BH205	BH205
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.20	0.10	0.20	0.10	0.40
Date Sampled				30/08/2022	31/08/2022	31/08/2022	01/09/2022	01/09/2022
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	3.5	4.4	4.8	8.2	8.8
Total mass of sample received	kg	0.001	NONE	0.4	0.4	0.4	0.4	0.4

Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	SZS	SZS	SZS	SZS	SZS

#### General Inorganics

pH - Automated	pH Units	N/A	MCERTS	6.6	8	8	7.6	8.5
Free Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Water Soluble SO <sub>4</sub> 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.0035	0.0041	0.0025	0.011	0.0037
Fraction Organic Carbon (FOC) Automated	N/A	0.001	MCERTS	0.011	0.0057	0.0033	0.017	0.0019

#### Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
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#### Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Chrysene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05

#### Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80
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#### Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	45	29	24	24	49
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	1.2	1	0.85	1.2	1.4
Boron (water soluble)	mg/kg	0.2	MCERTS	0.7	0.4	0.4	2	0.6
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	1.8	MCERTS	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8
Chromium (III)	mg/kg	1	NONE	43	34	31	42	49
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	43	34	31	42	50
Copper (aqua regia extractable)	mg/kg	1	MCERTS	13	11	12	15	15
Lead (aqua regia extractable)	mg/kg	1	MCERTS	29	20	14	32	16
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	29	23	21	29	42
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	80	64	53	64	85
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	76	71	66	88	73

Analytical Report Number: 22-82408

Project / Site name: Begbroke

Your Order No: PO19941

Lab Sample Number	2415137	2415138	2415139	2415140	2415141
Sample Reference	BH201	BH202	BH204	BH205	BH205
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)	0.20	0.10	0.20	0.10	0.40
Date Sampled	30/08/2022	31/08/2022	31/08/2022	01/09/2022	01/09/2022
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status		

**Monoaromatics & Oxygenates**

Compound	µg/kg	Limit of detection	Accreditation Status					
Benzene	µg/kg	1	MCERTS	-	-	-	-	-
Toluene	µg/kg	1	MCERTS	-	-	-	-	-
Ethylbenzene	µg/kg	1	MCERTS	-	-	-	-	-
p & m-xylene	µg/kg	1	MCERTS	-	-	-	-	-
o-xylene	µg/kg	1	MCERTS	-	-	-	-	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	-	-	-	-	-

**Petroleum Hydrocarbons**

TPH-CWG - Aliphatic > EC5 - EC6	mg/kg	Limit of detection	Accreditation Status					
TPH-CWG - Aliphatic > EC5 - EC6 <sub>HS_1D_AL</sub>	mg/kg	0.001	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic > EC6 - EC8 <sub>HS_1D_AL</sub>	mg/kg	0.001	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic > EC8 - EC10 <sub>HS_1D_AL</sub>	mg/kg	0.001	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic > EC10 - EC12 <sub>EH_CU_1D_AL</sub>	mg/kg	1	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic > EC12 - EC16 <sub>EH_CU_1D_AL</sub>	mg/kg	2	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic > EC16 - EC21 <sub>EH_CU_1D_AL</sub>	mg/kg	8	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic > EC21 - EC35 <sub>EH_CU_1D_AL</sub>	mg/kg	8	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic > EC16 - EC35 <sub>EH_CU_1D_AL</sub>	mg/kg	10	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic > EC35 - EC44 <sub>EH_CU_1D_AL</sub>	mg/kg	8.4	NONE	-	-	-	-	-
TPH-CWG - Aliphatic (EC5 - EC35) <sub>EH_CU+HS_1D_AL</sub>	mg/kg	10	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic (EC5 - EC44) <sub>EH_CU+HS_1D_AL</sub>	mg/kg	10	NONE	-	-	-	-	-

TPH-CWG - Aromatic > EC5 - EC7	mg/kg	Limit of detection	Accreditation Status					
TPH-CWG - Aromatic > EC5 - EC7 <sub>HS_1D_AR</sub>	mg/kg	0.001	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic > EC7 - EC8 <sub>HS_1D_AR</sub>	mg/kg	0.001	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic > EC8 - EC10 <sub>HS_1D_AR</sub>	mg/kg	0.001	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic > EC10 - EC12 <sub>EH_CU_1D_AR</sub>	mg/kg	1	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic > EC12 - EC16 <sub>EH_CU_1D_AR</sub>	mg/kg	2	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic > EC16 - EC21 <sub>EH_CU_1D_AR</sub>	mg/kg	10	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic > EC21 - EC35 <sub>EH_CU_1D_AR</sub>	mg/kg	10	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic > EC35 - EC44 <sub>EH_CU_1D_AR</sub>	mg/kg	8.4	NONE	-	-	-	-	-
TPH-CWG - Aromatic (EC5 - EC35) <sub>EH_CU+HS_1D_AR</sub>	mg/kg	10	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic (EC5 - EC44) <sub>EH_CU+HS_1D_AR</sub>	mg/kg	10	NONE	-	-	-	-	-

TPH Total C5 - C44 <sub>EH_CU+HS_1D_TOTAL</sub>	mg/kg	10	NONE	-	-	-	-	-
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Analytical Report Number: 22-82408

Project / Site name: Begbroke

Your Order No: PO19941

Lab Sample Number				2415137	2415138	2415139	2415140	2415141
Sample Reference				BH201	BH202	BH204	BH205	BH205
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.20	0.10	0.20	0.10	0.40
Date Sampled				30/08/2022	31/08/2022	31/08/2022	01/09/2022	01/09/2022
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
<b>VOCS</b>								
Chloromethane	µg/kg	1	ISO 17025	-	-	-	-	-
Chloroethane	µg/kg	1	NONE	-	-	-	-	-
Bromomethane	µg/kg	1	ISO 17025	-	-	-	-	-
Vinyl Chloride	µg/kg	1	NONE	-	-	-	-	-
Trichlorofluoromethane	µg/kg	1	NONE	-	-	-	-	-
1,1-Dichloroethene	µg/kg	1	NONE	-	-	-	-	-
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	-	-	-	-	-
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	-	-	-	-	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	-	-	-	-	-
1,1-Dichloroethane	µg/kg	1	MCERTS	-	-	-	-	-
2,2-Dichloropropane	µg/kg	1	MCERTS	-	-	-	-	-
Trichloromethane	µg/kg	1	MCERTS	-	-	-	-	-
1,1,1-Trichloroethane	µg/kg	1	MCERTS	-	-	-	-	-
1,2-Dichloroethane	µg/kg	1	MCERTS	-	-	-	-	-
1,1-Dichloropropene	µg/kg	1	MCERTS	-	-	-	-	-
Trans-1,2-dichloroethene	µg/kg	1	NONE	-	-	-	-	-
Benzene	µg/kg	1	MCERTS	-	-	-	-	-
Tetrachloromethane	µg/kg	1	MCERTS	-	-	-	-	-
1,2-Dichloropropane	µg/kg	1	MCERTS	-	-	-	-	-
Trichloroethene	µg/kg	1	MCERTS	-	-	-	-	-
Dibromomethane	µg/kg	1	MCERTS	-	-	-	-	-
Bromodichloromethane	µg/kg	1	MCERTS	-	-	-	-	-
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	-	-	-	-	-
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	-	-	-	-	-
Toluene	µg/kg	1	MCERTS	-	-	-	-	-
1,1,2-Trichloroethane	µg/kg	1	MCERTS	-	-	-	-	-
1,3-Dichloropropane	µg/kg	1	ISO 17025	-	-	-	-	-
Dibromochloromethane	µg/kg	1	ISO 17025	-	-	-	-	-
Tetrachloroethene	µg/kg	1	NONE	-	-	-	-	-
1,2-Dibromoethane	µg/kg	1	ISO 17025	-	-	-	-	-
Chlorobenzene	µg/kg	1	MCERTS	-	-	-	-	-
1,1,1,2-Tetrachloroethane	µg/kg	1	MCERTS	-	-	-	-	-
Ethylbenzene	µg/kg	1	MCERTS	-	-	-	-	-
p & m-Xylene	µg/kg	1	MCERTS	-	-	-	-	-
Styrene	µg/kg	1	MCERTS	-	-	-	-	-
Tribromomethane	µg/kg	1	NONE	-	-	-	-	-
o-Xylene	µg/kg	1	MCERTS	-	-	-	-	-
1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	-	-	-	-	-
Isopropylbenzene	µg/kg	1	MCERTS	-	-	-	-	-
Bromobenzene	µg/kg	1	MCERTS	-	-	-	-	-
n-Propylbenzene	µg/kg	1	ISO 17025	-	-	-	-	-
2-Chlorotoluene	µg/kg	1	MCERTS	-	-	-	-	-
4-Chlorotoluene	µg/kg	1	MCERTS	-	-	-	-	-
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	-	-	-	-	-
tert-Butylbenzene	µg/kg	1	MCERTS	-	-	-	-	-
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	-	-	-	-	-
sec-Butylbenzene	µg/kg	1	MCERTS	-	-	-	-	-
1,3-Dichlorobenzene	µg/kg	1	ISO 17025	-	-	-	-	-
p-Isopropyltoluene	µg/kg	1	ISO 17025	-	-	-	-	-
1,2-Dichlorobenzene	µg/kg	1	MCERTS	-	-	-	-	-
1,4-Dichlorobenzene	µg/kg	1	MCERTS	-	-	-	-	-
Butylbenzene	µg/kg	1	MCERTS	-	-	-	-	-

Analytical Report Number: 22-82408

Project / Site name: Begbroke

Your Order No: PO19941

Lab Sample Number				2415137	2415138	2415139	2415140	2415141
Sample Reference				BH201	BH202	BH204	BH205	BH205
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.20	0.10	0.20	0.10	0.40
Date Sampled				30/08/2022	31/08/2022	31/08/2022	01/09/2022	01/09/2022
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	-	-	-	-	-
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	-	-	-	-	-
Hexachlorobutadiene	µg/kg	1	MCERTS	-	-	-	-	-
1,2,3-Trichlorobenzene	µg/kg	1	ISO 17025	-	-	-	-	-

Analytical Report Number: 22-82408

Project / Site name: Begbroke

Your Order No: PO19941

Lab Sample Number				2415137	2415138	2415139	2415140	2415141
Sample Reference				BH201	BH202	BH204	BH205	BH205
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.20	0.10	0.20	0.10	0.40
Date Sampled				30/08/2022	31/08/2022	31/08/2022	01/09/2022	01/09/2022
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
<b>SVOCs</b>								
Aniline	mg/kg	0.1	NONE	-	-	-	-	-
Phenol	mg/kg	0.2	ISO 17025	-	-	-	-	-
2-Chlorophenol	mg/kg	0.1	MCERTS	-	-	-	-	-
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	-	-	-	-	-
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	-	-	-	-	-
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	-	-	-	-	-
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	-	-	-	-	-
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	-	-	-	-	-
2-Methylphenol	mg/kg	0.3	MCERTS	-	-	-	-	-
Hexachloroethane	mg/kg	0.05	MCERTS	-	-	-	-	-
Nitrobenzene	mg/kg	0.3	MCERTS	-	-	-	-	-
4-Methylphenol	mg/kg	0.2	NONE	-	-	-	-	-
Isophorone	mg/kg	0.2	MCERTS	-	-	-	-	-
2-Nitrophenol	mg/kg	0.3	MCERTS	-	-	-	-	-
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	-	-	-	-	-
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	-	-	-	-	-
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	-	-	-	-	-
Naphthalene	mg/kg	0.05	MCERTS	-	-	-	-	-
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	-	-	-	-	-
4-Chloroaniline	mg/kg	0.1	NONE	-	-	-	-	-
Hexachlorobutadiene	mg/kg	0.1	MCERTS	-	-	-	-	-
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	-	-	-	-	-
2,4,6-Trichlorophenol	mg/kg	0.1	MCERTS	-	-	-	-	-
2,4,5-Trichlorophenol	mg/kg	0.2	MCERTS	-	-	-	-	-
2-Methylnaphthalene	mg/kg	0.1	NONE	-	-	-	-	-
2-Chloronaphthalene	mg/kg	0.1	MCERTS	-	-	-	-	-
Dimethylphthalate	mg/kg	0.1	MCERTS	-	-	-	-	-
2,6-Dinitrotoluene	mg/kg	0.1	MCERTS	-	-	-	-	-
Acenaphthylene	mg/kg	0.05	MCERTS	-	-	-	-	-
Acenaphthene	mg/kg	0.05	MCERTS	-	-	-	-	-
2,4-Dinitrotoluene	mg/kg	0.2	MCERTS	-	-	-	-	-
Dibenzofuran	mg/kg	0.2	MCERTS	-	-	-	-	-
4-Chlorophenyl phenyl ether	mg/kg	0.3	ISO 17025	-	-	-	-	-
Diethyl phthalate	mg/kg	0.2	MCERTS	-	-	-	-	-
4-Nitroaniline	mg/kg	0.2	MCERTS	-	-	-	-	-
Fluorene	mg/kg	0.05	MCERTS	-	-	-	-	-
Azobenzene	mg/kg	0.3	MCERTS	-	-	-	-	-
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	-	-	-	-	-
Hexachlorobenzene	mg/kg	0.3	MCERTS	-	-	-	-	-
Phenanthrene	mg/kg	0.05	MCERTS	-	-	-	-	-
Anthracene	mg/kg	0.05	MCERTS	-	-	-	-	-
Carbazole	mg/kg	0.3	MCERTS	-	-	-	-	-
Dibutyl phthalate	mg/kg	0.2	MCERTS	-	-	-	-	-
Anthraquinone	mg/kg	0.3	MCERTS	-	-	-	-	-
Fluoranthene	mg/kg	0.05	MCERTS	-	-	-	-	-
Pyrene	mg/kg	0.05	MCERTS	-	-	-	-	-
Butyl benzyl phthalate	mg/kg	0.3	ISO 17025	-	-	-	-	-
Benzo(a)anthracene	mg/kg	0.05	MCERTS	-	-	-	-	-
Chrysene	mg/kg	0.05	MCERTS	-	-	-	-	-
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	-	-	-	-	-
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	-	-	-	-	-
Benzo(a)pyrene	mg/kg	0.05	MCERTS	-	-	-	-	-

Analytical Report Number: 22-82408

Project / Site name: Begbroke

Your Order No: PO19941

Lab Sample Number	2415137	2415138	2415139	2415140	2415141			
Sample Reference	BH201	BH202	BH204	BH205	BH205			
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied			
Depth (m)	0.20	0.10	0.20	0.10	0.40			
Date Sampled	30/08/2022	31/08/2022	31/08/2022	01/09/2022	01/09/2022			
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied			
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	-	-	-	-	-
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	-	-	-	-	-
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	-	-	-	-	-

**Pesticide and Herbicide Screen**

GCMS Pesticide Screen		N/A	NONE	-	-	-	None Detected	-
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U/S = Unsuitable Sample I/S = Insufficient Sample

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Your Order No: PO19941

Lab Sample Number				2415142	2415143	2415144	2415145	2415146
Sample Reference				BH203	BH203	WS244	WS241	WS251
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.10	0.50	0.20	0.20	0.20
Date Sampled				01/09/2022	01/09/2022	01/09/2022	01/09/2022	01/09/2022
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	3.8	4.2	4.7	18	18
Total mass of sample received	kg	0.001	NONE	0.4	0.4	0.8	0.8	0.9

Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	SZS	SZS	SZS	SZS	SZS

#### General Inorganics

pH - Automated	pH Units	N/A	MCERTS	7.1	7.5	7.6	7.8	8.1
Free Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Water Soluble SO <sub>4</sub> 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.0045	0.0041	0.0064	0.011	0.012
Fraction Organic Carbon (FOC) Automated	N/A	0.001	MCERTS	0.012	0.0078	0.012	0.026	0.016

#### Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

#### Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Chrysene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05

#### Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80

#### Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	29	31	20	18	16
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	0.98	1.1	0.93	1	1.3
Boron (water soluble)	mg/kg	0.2	MCERTS	0.9	1.1	0.4	3.5	1
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	1.8	MCERTS	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8
Chromium (III)	mg/kg	1	NONE	33	38	34	36	45
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	34	38	35	37	45
Copper (aqua regia extractable)	mg/kg	1	MCERTS	13	10	16	21	11
Lead (aqua regia extractable)	mg/kg	1	MCERTS	27	18	23	33	20
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	23	25	21	24	25
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	59	71	52	55	64
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	73	74	64	91	64

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Project / Site name: Begbroke

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Lab Sample Number				2415142	2415143	2415144	2415145	2415146
Sample Reference				BH203	BH203	WS244	WS241	WS251
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.10	0.50	0.20	0.20	0.20
Date Sampled				01/09/2022	01/09/2022	01/09/2022	01/09/2022	01/09/2022
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					

**Monoaromatics & Oxygenates**

Compound	Units	Limit of detection	Accreditation Status	2415142	2415143	2415144	2415145	2415146
Benzene	µg/kg	1	MCERTS	-	-	-	-	-
Toluene	µg/kg	1	MCERTS	-	-	-	-	-
Ethylbenzene	µg/kg	1	MCERTS	-	-	-	-	-
p & m-xylene	µg/kg	1	MCERTS	-	-	-	-	-
o-xylene	µg/kg	1	MCERTS	-	-	-	-	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	-	-	-	-	-

**Petroleum Hydrocarbons**

Parameter	Units	Limit of detection	Accreditation Status	2415142	2415143	2415144	2415145	2415146
TPH-CWG - Aliphatic >EC5 - EC6 <sub>HS_1D_AL</sub>	mg/kg	0.001	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC6 - EC8 <sub>HS_1D_AL</sub>	mg/kg	0.001	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC8 - EC10 <sub>HS_1D_AL</sub>	mg/kg	0.001	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC10 - EC12 <sub>EH_CU_1D_AL</sub>	mg/kg	1	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC12 - EC16 <sub>EH_CU_1D_AL</sub>	mg/kg	2	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC16 - EC21 <sub>EH_CU_1D_AL</sub>	mg/kg	8	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC21 - EC35 <sub>EH_CU_1D_AL</sub>	mg/kg	8	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC16 - EC35 <sub>EH_CU_1D_AL</sub>	mg/kg	10	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic > EC35 - EC44 <sub>EH_CU_1D_AL</sub>	mg/kg	8.4	NONE	-	-	-	-	-
TPH-CWG - Aliphatic (EC5 - EC35) <sub>EH_CU+HS_1D_AL</sub>	mg/kg	10	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic (EC5 - EC44) <sub>EH_CU+HS_1D_AL</sub>	mg/kg	10	NONE	-	-	-	-	-

Parameter	Units	Limit of detection	Accreditation Status	2415142	2415143	2415144	2415145	2415146
TPH-CWG - Aromatic >EC5 - EC7 <sub>HS_1D_AR</sub>	mg/kg	0.001	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic >EC7 - EC8 <sub>HS_1D_AR</sub>	mg/kg	0.001	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic >EC8 - EC10 <sub>HS_1D_AR</sub>	mg/kg	0.001	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic >EC10 - EC12 <sub>EH_CU_1D_AR</sub>	mg/kg	1	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic >EC12 - EC16 <sub>EH_CU_1D_AR</sub>	mg/kg	2	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic >EC16 - EC21 <sub>EH_CU_1D_AR</sub>	mg/kg	10	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic >EC21 - EC35 <sub>EH_CU_1D_AR</sub>	mg/kg	10	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic > EC35 - EC44 <sub>EH_CU_1D_AR</sub>	mg/kg	8.4	NONE	-	-	-	-	-
TPH-CWG - Aromatic (EC5 - EC35) <sub>EH_CU+HS_1D_AR</sub>	mg/kg	10	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic (EC5 - EC44) <sub>EH_CU+HS_1D_AR</sub>	mg/kg	10	NONE	-	-	-	-	-

TPH Total C5 - C44 <sub>EH_CU+HS_1D_TOTAL</sub>	mg/kg	10	NONE	-	-	-	-	-
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Project / Site name: Begbroke

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Lab Sample Number				2415142	2415143	2415144	2415145	2415146
Sample Reference				BH203	BH203	WS244	WS241	WS251
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.10	0.50	0.20	0.20	0.20
Date Sampled				01/09/2022	01/09/2022	01/09/2022	01/09/2022	01/09/2022
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
<b>VOCs</b>								
Chloromethane	µg/kg	1	ISO 17025	-	-	-	-	-
Chloroethane	µg/kg	1	NONE	-	-	-	-	-
Bromomethane	µg/kg	1	ISO 17025	-	-	-	-	-
Vinyl Chloride	µg/kg	1	NONE	-	-	-	-	-
Trichlorofluoromethane	µg/kg	1	NONE	-	-	-	-	-
1,1-Dichloroethene	µg/kg	1	NONE	-	-	-	-	-
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	-	-	-	-	-
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	-	-	-	-	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	-	-	-	-	-
1,1-Dichloroethane	µg/kg	1	MCERTS	-	-	-	-	-
2,2-Dichloropropane	µg/kg	1	MCERTS	-	-	-	-	-
Trichloromethane	µg/kg	1	MCERTS	-	-	-	-	-
1,1,1-Trichloroethane	µg/kg	1	MCERTS	-	-	-	-	-
1,2-Dichloroethane	µg/kg	1	MCERTS	-	-	-	-	-
1,1-Dichloropropene	µg/kg	1	MCERTS	-	-	-	-	-
Trans-1,2-dichloroethene	µg/kg	1	NONE	-	-	-	-	-
Benzene	µg/kg	1	MCERTS	-	-	-	-	-
Tetrachloromethane	µg/kg	1	MCERTS	-	-	-	-	-
1,2-Dichloropropane	µg/kg	1	MCERTS	-	-	-	-	-
Trichloroethene	µg/kg	1	MCERTS	-	-	-	-	-
Dibromomethane	µg/kg	1	MCERTS	-	-	-	-	-
Bromodichloromethane	µg/kg	1	MCERTS	-	-	-	-	-
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	-	-	-	-	-
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	-	-	-	-	-
Toluene	µg/kg	1	MCERTS	-	-	-	-	-
1,1,2-Trichloroethane	µg/kg	1	MCERTS	-	-	-	-	-
1,3-Dichloropropane	µg/kg	1	ISO 17025	-	-	-	-	-
Dibromochloromethane	µg/kg	1	ISO 17025	-	-	-	-	-
Tetrachloroethene	µg/kg	1	NONE	-	-	-	-	-
1,2-Dibromoethane	µg/kg	1	ISO 17025	-	-	-	-	-
Chlorobenzene	µg/kg	1	MCERTS	-	-	-	-	-
1,1,1,2-Tetrachloroethane	µg/kg	1	MCERTS	-	-	-	-	-
Ethylbenzene	µg/kg	1	MCERTS	-	-	-	-	-
p & m-Xylene	µg/kg	1	MCERTS	-	-	-	-	-
Styrene	µg/kg	1	MCERTS	-	-	-	-	-
Tribromomethane	µg/kg	1	NONE	-	-	-	-	-
o-Xylene	µg/kg	1	MCERTS	-	-	-	-	-
1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	-	-	-	-	-
Isopropylbenzene	µg/kg	1	MCERTS	-	-	-	-	-
Bromobenzene	µg/kg	1	MCERTS	-	-	-	-	-
n-Propylbenzene	µg/kg	1	ISO 17025	-	-	-	-	-
2-Chlorotoluene	µg/kg	1	MCERTS	-	-	-	-	-
4-Chlorotoluene	µg/kg	1	MCERTS	-	-	-	-	-
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	-	-	-	-	-
tert-Butylbenzene	µg/kg	1	MCERTS	-	-	-	-	-
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	-	-	-	-	-
sec-Butylbenzene	µg/kg	1	MCERTS	-	-	-	-	-
1,3-Dichlorobenzene	µg/kg	1	ISO 17025	-	-	-	-	-
p-Isopropyltoluene	µg/kg	1	ISO 17025	-	-	-	-	-
1,2-Dichlorobenzene	µg/kg	1	MCERTS	-	-	-	-	-
1,4-Dichlorobenzene	µg/kg	1	MCERTS	-	-	-	-	-
Butylbenzene	µg/kg	1	MCERTS	-	-	-	-	-

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Project / Site name: Begbroke

Your Order No: PO19941

Lab Sample Number				2415142	2415143	2415144	2415145	2415146
Sample Reference				BH203	BH203	WS244	WS241	WS251
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.10	0.50	0.20	0.20	0.20
Date Sampled				01/09/2022	01/09/2022	01/09/2022	01/09/2022	01/09/2022
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	-	-	-	-	-
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	-	-	-	-	-
Hexachlorobutadiene	µg/kg	1	MCERTS	-	-	-	-	-
1,2,3-Trichlorobenzene	µg/kg	1	ISO 17025	-	-	-	-	-

Analytical Report Number: 22-82408

Project / Site name: Begbroke

Your Order No: PO19941

Lab Sample Number				2415142	2415143	2415144	2415145	2415146
Sample Reference				BH203	BH203	WS244	WS241	WS251
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.10	0.50	0.20	0.20	0.20
Date Sampled				01/09/2022	01/09/2022	01/09/2022	01/09/2022	01/09/2022
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
<b>SVOCs</b>								
Aniline	mg/kg	0.1	NONE	-	-	-	-	-
Phenol	mg/kg	0.2	ISO 17025	-	-	-	-	-
2-Chlorophenol	mg/kg	0.1	MCERTS	-	-	-	-	-
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	-	-	-	-	-
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	-	-	-	-	-
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	-	-	-	-	-
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	-	-	-	-	-
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	-	-	-	-	-
2-Methylphenol	mg/kg	0.3	MCERTS	-	-	-	-	-
Hexachloroethane	mg/kg	0.05	MCERTS	-	-	-	-	-
Nitrobenzene	mg/kg	0.3	MCERTS	-	-	-	-	-
4-Methylphenol	mg/kg	0.2	NONE	-	-	-	-	-
Isophorone	mg/kg	0.2	MCERTS	-	-	-	-	-
2-Nitrophenol	mg/kg	0.3	MCERTS	-	-	-	-	-
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	-	-	-	-	-
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	-	-	-	-	-
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	-	-	-	-	-
Naphthalene	mg/kg	0.05	MCERTS	-	-	-	-	-
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	-	-	-	-	-
4-Chloroaniline	mg/kg	0.1	NONE	-	-	-	-	-
Hexachlorobutadiene	mg/kg	0.1	MCERTS	-	-	-	-	-
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	-	-	-	-	-
2,4,6-Trichlorophenol	mg/kg	0.1	MCERTS	-	-	-	-	-
2,4,5-Trichlorophenol	mg/kg	0.2	MCERTS	-	-	-	-	-
2-Methylnaphthalene	mg/kg	0.1	NONE	-	-	-	-	-
2-Chloronaphthalene	mg/kg	0.1	MCERTS	-	-	-	-	-
Dimethylphthalate	mg/kg	0.1	MCERTS	-	-	-	-	-
2,6-Dinitrotoluene	mg/kg	0.1	MCERTS	-	-	-	-	-
Acenaphthylene	mg/kg	0.05	MCERTS	-	-	-	-	-
Acenaphthene	mg/kg	0.05	MCERTS	-	-	-	-	-
2,4-Dinitrotoluene	mg/kg	0.2	MCERTS	-	-	-	-	-
Dibenzofuran	mg/kg	0.2	MCERTS	-	-	-	-	-
4-Chlorophenyl phenyl ether	mg/kg	0.3	ISO 17025	-	-	-	-	-
Diethyl phthalate	mg/kg	0.2	MCERTS	-	-	-	-	-
4-Nitroaniline	mg/kg	0.2	MCERTS	-	-	-	-	-
Fluorene	mg/kg	0.05	MCERTS	-	-	-	-	-
Azobenzene	mg/kg	0.3	MCERTS	-	-	-	-	-
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	-	-	-	-	-
Hexachlorobenzene	mg/kg	0.3	MCERTS	-	-	-	-	-
Phenanthrene	mg/kg	0.05	MCERTS	-	-	-	-	-
Anthracene	mg/kg	0.05	MCERTS	-	-	-	-	-
Carbazole	mg/kg	0.3	MCERTS	-	-	-	-	-
Dibutyl phthalate	mg/kg	0.2	MCERTS	-	-	-	-	-
Anthraquinone	mg/kg	0.3	MCERTS	-	-	-	-	-
Fluoranthene	mg/kg	0.05	MCERTS	-	-	-	-	-
Pyrene	mg/kg	0.05	MCERTS	-	-	-	-	-
Butyl benzyl phthalate	mg/kg	0.3	ISO 17025	-	-	-	-	-
Benzo(a)anthracene	mg/kg	0.05	MCERTS	-	-	-	-	-
Chrysene	mg/kg	0.05	MCERTS	-	-	-	-	-
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	-	-	-	-	-
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	-	-	-	-	-
Benzo(a)pyrene	mg/kg	0.05	MCERTS	-	-	-	-	-

Analytical Report Number: 22-82408

Project / Site name: Begbroke

Your Order No: PO19941

Lab Sample Number				2415142	2415143	2415144	2415145	2415146
Sample Reference				BH203	BH203	WS244	WS241	WS251
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.10	0.50	0.20	0.20	0.20
Date Sampled				01/09/2022	01/09/2022	01/09/2022	01/09/2022	01/09/2022
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	-	-	-	-	-
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	-	-	-	-	-
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	-	-	-	-	-

**Pesticide and Herbicide Screen**

GCMS Pesticide Screen		N/A	NONE	-	-	-	None Detected	-
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U/S = Unsuitable Sample I/S = Insufficient Sample

**Analytical Report Number : 22-82408**
**Project / Site name: Begbroke**

\* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
2415132	HP207	None Supplied	0.7	Brown clay and sand with gravel.
2415133	HP209	None Supplied	0.3	Brown sand with gravel and fibrous material.
2415134	WS232	None Supplied	0.2	Brown sand with fibrous material and gravel
2415135	WS230	None Supplied	0.2	Brown sand with gravel and fibrous material.
2415136	WS211	None Supplied	0.1	Brown gravelly sand with stones and fibrous material.
2415137	BH201	None Supplied	0.2	Brown sand with fibrous material and gravel
2415138	BH202	None Supplied	0.1	Brown sand with gravel.
2415139	BH204	None Supplied	0.2	Brown sand with gravel.
2415140	BH205	None Supplied	0.1	Brown sand with fibrous material and gravel
2415141	BH205	None Supplied	0.4	Brown clay and sand with gravel.
2415142	BH203	None Supplied	0.1	Brown loam and clay with gravel.
2415143	BH203	None Supplied	0.5	Brown clay and sand with gravel.
2415144	WS244	None Supplied	0.2	Brown loam and clay with gravel and vegetation.
2415145	WS241	None Supplied	0.2	Brown clay and loam with gravel.
2415146	WS251	None Supplied	0.2	Brown loam and clay with gravel.

**Analytical Report Number : 22-82408**

**Project / Site name: Begbroke**

**Water matrix abbreviations:**

**Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)**

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Sulphate, water soluble, in soil (16hr extraction)	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In house method.	L038-PL	D	MCERTS
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with dispersion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES.	In-house method based on Second Site Properties version 3	L038-PL	D	MCERTS
Free cyanide in soil	Determination of free cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	MCERTS
Moisture Content	Moisture content, determined gravimetrically. (30 oC)	In house method.	L019-UK/PL	W	NONE
Monohydric phenols in soil	Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	MCERTS
Speciated EPA-16 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement.	In house method.	L099-PL	D	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Semi-volatile organic compounds in soil	Determination of semi-volatile organic compounds in soil by extraction in dichloromethane and hexane followed by GC-MS.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
Volatile organic compounds in soil	Determination of volatile organic compounds in soil by headspace GC-MS.	In-house method based on USEPA8260	L073B-PL	W	MCERTS
BTEX and MTBE in soil (Monoaromatics)	Determination of BTEX in soil by headspace GC-MS.	In-house method based on USEPA8260	L073B-PL	W	MCERTS
TPH Chromatogram in Soil	TPH Chromatogram in Soil.	In-house method	L064-PL	D	NONE
Cr (III) in soil	In-house method by calculation from total Cr and Cr VI.	In-house method by calculation	L080-PL	W	NONE
TPHCWG (Soil)	Determination of hexane extractable hydrocarbons in soil by GC-MS/GC-FID.	In-house method with silica gel split/clean up.	L088/76-PL	W	MCERTS
TPH in (Soil)	Determination of TPH bands by HS-GC-MS/GC-FID	In-house method, TPH with carbon banding and silica gel split/cleanup.	L076-PL	D	MCERTS

**Analytical Report Number : 22-82408**

**Project / Site name: Begbroke**

**Water matrix abbreviations:**

**Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)**

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
GC Pesticide Screen (TIC)	Analysis of unknown pesticides by GCMS	GC Pesticide Screen (TIC)	L064B	D	NONE
Fraction Organic Carbon FOC Automated	Determination of fraction of organic carbon in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	In house method	L009	D	MCERTS
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in NaOH and addition of 1,5 diphenylcarbazide followed by colorimetry.	In-house method	L080-PL	W	MCERTS

**For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.**

**For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.**

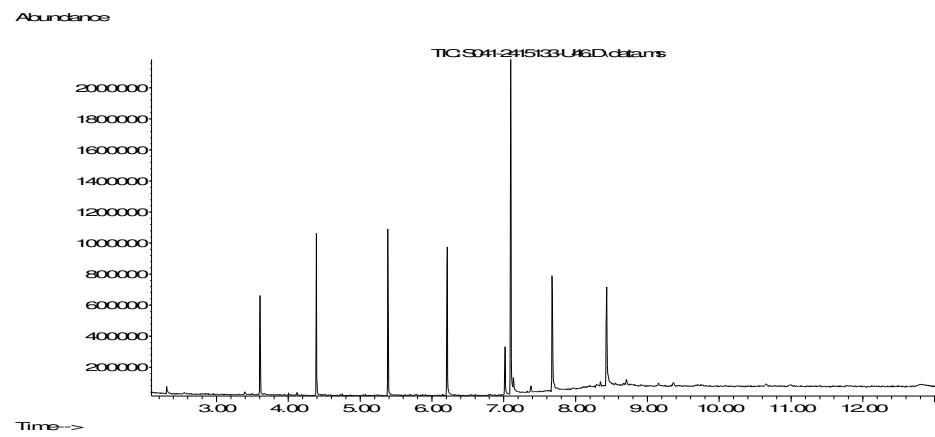
**Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.**

**Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.**

## Information in Support of Analytical Results

### List of HWOL Acronyms and Operators

Acronym	Descriptions
HS	Headspace Analysis
MS	Mass spectrometry
FID	Flame Ionisation Detector
GC	Gas Chromatography
EH	Extractable Hydrocarbons (i.e. everything extracted by the solvent(s))
CU	Clean-up - e.g. by Florisil®, silica gel
1D	GC - Single coil/column gas chromatography
2D	GC-GC - Double coil/column gas chromatography
Total	Aliphatics & Aromatics
AL	Aliphatics
AR	Aromatics
#1	EH_2D_Total but with humics mathematically subtracted
#2	EH_2D_Total but with fatty acids mathematically subtracted
_	Operator - understore to separate acronyms (exception for +)
+	Operator to indicate cumulative e.g. EH+HS_Total or EH_CU+HS_Total





## Sample Deviation Report



**Analytical Report Number : 22-82408**

**Project / Site name: Begbroke**

This deviation report indicates the sample and test deviations that apply to the samples submitted for analysis. Please note that the associated result(s) may be unreliable and should be interpreted with care.

Sample ID	Other ID	Sample Type	Lab Sample Number	Sample Deviation	Test Name	Test Ref	Test Deviation
BH201	None Supplied	S	2415137	c	Free cyanide in soil	L080-PL	c
HP207	None Supplied	S	2415132	c	Free cyanide in soil	L080-PL	c
HP209	None Supplied	S	2415133	c	Free cyanide in soil	L080-PL	c
WS211	None Supplied	S	2415136	c	Free cyanide in soil	L080-PL	c
WS230	None Supplied	S	2415135	c	Free cyanide in soil	L080-PL	c
WS232	None Supplied	S	2415134	c	Free cyanide in soil	L080-PL	c



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## **Analytical Report Number : 22-82414**

<b>Project / Site name:</b>	Begbroke	<b>Samples received on:</b>	06/09/2022
<b>Your job number:</b>	19114	<b>Samples instructed on/ Analysis started on:</b>	06/09/2022
<b>Your order number:</b>	PO19941	<b>Analysis completed by:</b>	13/09/2022
<b>Report Issue Number:</b>	1	<b>Report issued on:</b>	13/09/2022
<b>Samples Analysed:</b>	15 soil samples		

**Signed:** \_\_\_\_\_

Anna Goc  
Junior Reporting Specialist  
**For & on behalf of i2 Analytical Ltd.**

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils - 4 weeks from reporting  
leachates - 2 weeks from reporting  
waters - 2 weeks from reporting  
asbestos - 6 months from reporting

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Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement.  
Application of uncertainty of measurement would provide a range within which the true result lies.  
An estimate of measurement uncertainty can be provided on request.

Analytical Report Number: 22-82414

Project / Site name: Begbroke

Your Order No: PO19941

Lab Sample Number				2415194	2415195	2415196	2415197	2415198
Sample Reference				WS215	WS208	WS208	WS210	WS222
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.20	0.10	0.50	0.10	0.20
Date Sampled				25/08/2022	25/08/2022	25/08/2022	25/08/2022	25/08/2022
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	22	12	23	9.3	3.2
Total mass of sample received	kg	0.001	NONE	0.9	0.9	0.9	0.9	0.9

Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	SCA	SCA	SCA	SCA	SCA

#### General Inorganics

pH - Automated	pH Units	N/A	MCERTS	7.6	7.3	8.2	7.3	7.9
Free Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Water Soluble SO <sub>4</sub> 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.017	0.016	0.15	0.014	0.003
Fraction Organic Carbon (FOC) Automated	N/A	0.001	MCERTS	0.033	0.04	0.009	0.03	0.014

#### Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
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#### Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Chrysene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05

#### Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80
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#### Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	25	36	27	26	41
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	1.5	1.8	2.1	1.7	1.1
Boron (water soluble)	mg/kg	0.2	MCERTS	4.2	1	0.3	2.9	0.3
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	1.8	MCERTS	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8
Chromium (III)	mg/kg	1	NONE	47	54	55	55	39
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	48	55	56	56	40
Copper (aqua regia extractable)	mg/kg	1	MCERTS	19	23	25	18	14
Lead (aqua regia extractable)	mg/kg	1	MCERTS	32	36	21	31	27
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	30	37	52	33	27
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	72	86	57	81	73
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	85	93	65	94	77



Analytical Report Number: 22-82414

Project / Site name: Begbroke

Your Order No: PO19941

<b>Lab Sample Number</b>				2415194	2415195	2415196	2415197	2415198
<b>Sample Reference</b>				WS215	WS208	WS208	WS210	WS222
<b>Sample Number</b>				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
<b>Depth (m)</b>				0.20	0.10	0.50	0.10	0.20
<b>Date Sampled</b>				25/08/2022	25/08/2022	25/08/2022	25/08/2022	25/08/2022
<b>Time Taken</b>				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
<b>Analytical Parameter (Soil Analysis)</b>	<b>Units</b>	<b>Limit of detection</b>	<b>Accreditation Status</b>					

**Pesticide and Herbicide Screen**

GCMS Pesticide Screen		N/A	NONE	-	-	-	-	-
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U/S = Unsuitable Sample I/S = Insufficient Sample

Analytical Report Number: 22-82414

Project / Site name: Begbroke

Your Order No: PO19941

Lab Sample Number				2415199	2415200	2415201	2415202	2415203
Sample Reference				WS207	WS201	WS202	WS216	WS216
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.10	0.20	0.20	0.20	0.50
Date Sampled				25/08/2022	30/08/2022	30/08/2022	30/08/2022	30/08/2022
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	17	13	7.4	3.9	8.2
Total mass of sample received	kg	0.001	NONE	0.4	0.9	0.9	0.9	0.9

Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	SCA	SCA	SCA	SCA	SCA

#### General Inorganics

pH - Automated	pH Units	N/A	MCERTS	7.6	8.4	7.9	7.9	8.2
Free Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Water Soluble SO <sub>4</sub> 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.01	0.0056	0.0075	0.0029	0.0013
Fraction Organic Carbon (FOC) Automated	N/A	0.001	MCERTS	0.03	0.0057	0.011	0.006	< 0.0010

#### Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
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#### Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Chrysene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05

#### Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80
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#### Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	29	19	28	65	93
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	1.5	1.6	1.3	1.9	2.5
Boron (water soluble)	mg/kg	0.2	MCERTS	0.9	1.3	1.6	0.9	0.4
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	1.8	MCERTS	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8
Chromium (III)	mg/kg	1	NONE	47	43	46	65	100
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	48	44	46	66	100
Copper (aqua regia extractable)	mg/kg	1	MCERTS	17	21	15	18	20
Lead (aqua regia extractable)	mg/kg	1	MCERTS	28	20	21	26	22
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	31	32	29	49	57
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	78	65	73	120	190
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	82	88	81	110	130



Analytical Report Number: 22-82414

Project / Site name: Begbroke

Your Order No: PO19941

<b>Lab Sample Number</b>				2415199	2415200	2415201	2415202	2415203
<b>Sample Reference</b>				WS207	WS201	WS202	WS216	WS216
<b>Sample Number</b>				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
<b>Depth (m)</b>				0.10	0.20	0.20	0.20	0.50
<b>Date Sampled</b>				25/08/2022	30/08/2022	30/08/2022	30/08/2022	30/08/2022
<b>Time Taken</b>				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
<b>Analytical Parameter (Soil Analysis)</b>	<b>Units</b>	<b>Limit of detection</b>	<b>Accreditation Status</b>					

**Pesticide and Herbicide Screen**

GCMS Pesticide Screen		N/A	NONE	-	None Detected	-	-	-
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U/S = Unsuitable Sample I/S = Insufficient Sample

Analytical Report Number: 22-82414

Project / Site name: Begbroke

Your Order No: PO19941

Lab Sample Number				2415204	2415205	2415206	2415207	2415208
Sample Reference				WS212	WS202	WS231	WS238	WS238
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.20	1.10	0.20	0.20	0.60
Date Sampled				30/08/2022	30/08/2022	31/08/2022	31/08/2022	31/08/2022
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	57	26	< 0.1
Moisture Content	%	0.01	NONE	4.1	11	2.3	5.2	6.2
Total mass of sample received	kg	0.001	NONE	0.9	0.9	0.9	0.9	0.9

Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	LFT	LFT	LFT	LFT	LFT

#### General Inorganics

pH - Automated	pH Units	N/A	MCERTS	7.6	8.2	7.9	7.8	8
Free Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Water Soluble SO <sub>4</sub> 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.0058	0.01	0.0022	0.028	0.0031
Fraction Organic Carbon (FOC) Automated	N/A	0.001	MCERTS	0.014	0.0027	0.0066	0.019	0.0077

#### Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
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#### Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Chrysene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05

#### Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80
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#### Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	62	48	30	48	44
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	1.5	1.5	0.88	1.3	1.1
Boron (water soluble)	mg/kg	0.2	MCERTS	2.2	0.7	0.7	2	0.7
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	1.8	MCERTS	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8
Chromium (III)	mg/kg	1	NONE	54	48	29	47	40
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	54	49	30	48	40
Copper (aqua regia extractable)	mg/kg	1	MCERTS	17	18	14	16	15
Lead (aqua regia extractable)	mg/kg	1	MCERTS	26	21	21	22	19
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	37	49	27	34	28
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	96	92	51	94	79
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	94	87	65	94	83



Analytical Report Number: 22-82414  
 Project / Site name: Begbroke  
 Your Order No: PO19941

Lab Sample Number				2415204	2415205	2415206	2415207	2415208
Sample Reference				WS212	WS202	WS231	WS238	WS238
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.20	1.10	0.20	0.20	0.60
Date Sampled				30/08/2022	30/08/2022	31/08/2022	31/08/2022	31/08/2022
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
<b>Pesticide and Herbicide Screen</b>								
GCMS Pesticide Screen				N/A	NONE	-	-	None Detected

U/S = Unsuitable Sample I/S = Insufficient Sample



**Analytical Report Number : 22-82414**

**Project / Site name: Begbroke**

\* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
2415194	WS215	None Supplied	0.2	Brown loam and clay with gravel.
2415195	WS208	None Supplied	0.1	Brown loam and clay with gravel and vegetation.
2415196	WS208	None Supplied	0.5	Brown loam and clay with gravel.
2415197	WS210	None Supplied	0.1	Brown loam and clay with gravel and vegetation.
2415198	WS222	None Supplied	0.2	Brown loam and clay with gravel and vegetation.
2415199	WS207	None Supplied	0.1	Brown loam and clay with gravel.
2415200	WS201	None Supplied	0.2	Brown clay and loam with gravel.
2415201	WS202	None Supplied	0.2	Brown clay and loam with gravel and vegetation.
2415202	WS216	None Supplied	0.2	Brown clay and sand with gravel and vegetation.
2415203	WS216	None Supplied	0.5	Brown clay and loam with gravel.
2415204	WS212	None Supplied	0.2	Brown clay and loam with gravel and vegetation.
2415205	WS202	None Supplied	1.1	Brown clay and sand with gravel and vegetation.
2415206	WS231	None Supplied	0.2	Brown sand with stones and gravel
2415207	WS238	None Supplied	0.2	Brown sand with stones and fibrous material.
2415208	WS238	None Supplied	0.6	Brown sand with gravel.

**Analytical Report Number : 22-82414**

**Project / Site name: Begbroke**

**Water matrix abbreviations:**

**Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)**

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Sulphate, water soluble, in soil (16hr extraction)	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In house method.	L038-PL	D	MCERTS
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with dispersion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES.	In-house method based on Second Site Properties version 3	L038-PL	D	MCERTS
Free cyanide in soil	Determination of free cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	MCERTS
Moisture Content	Moisture content, determined gravimetrically. (30 oC)	In house method.	L019-UK/PL	W	NONE
Monohydric phenols in soil	Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	MCERTS
Speciated EPA-16 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement.	In house method.	L099-PL	D	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Cr (III) in soil	In-house method by calculation from total Cr and Cr VI.	In-house method by calculation	L080-PL	W	NONE
GC Pesticide Screen (TIC)	Analysis of unknown pesticides by GCMS	GC Pesticide Screen (TIC)	L064B	D	NONE
Fraction Organic Carbon FOC Automated	Determination of fraction of organic carbon in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	In house method	L009	D	MCERTS
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in NaOH and addition of 1,5 diphenylcarbazide followed by colorimetry.	In-house method	L080-PL	W	MCERTS

**For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.**

**For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.**

**Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.**

**Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.**

## Sample Deviation Report



**Analytical Report Number : 22-82414**

**Project / Site name: Begbroke**

This deviation report indicates the sample and test deviations that apply to the samples submitted for analysis. Please note that the associated result(s) may be unreliable and should be interpreted with care.

Sample ID	Other ID	Sample Type	Lab Sample Number	Sample Deviation	Test Name	Test Ref	Test Deviation
WS201	None Supplied	S	2415200	c	Free cyanide in soil	L080-PL	c
WS202	None Supplied	S	2415201	c	Free cyanide in soil	L080-PL	c
WS202	None Supplied	S	2415205	c	Free cyanide in soil	L080-PL	c
WS207	None Supplied	S	2415199	c	Free cyanide in soil	L080-PL	c
WS208	None Supplied	S	2415195	c	Free cyanide in soil	L080-PL	c
WS208	None Supplied	S	2415196	c	Free cyanide in soil	L080-PL	c
WS210	None Supplied	S	2415197	c	Free cyanide in soil	L080-PL	c
WS212	None Supplied	S	2415204	c	Free cyanide in soil	L080-PL	c
WS215	None Supplied	S	2415194	c	Free cyanide in soil	L080-PL	c
WS216	None Supplied	S	2415202	c	Free cyanide in soil	L080-PL	c
WS216	None Supplied	S	2415203	c	Free cyanide in soil	L080-PL	c
WS222	None Supplied	S	2415198	c	Free cyanide in soil	L080-PL	c



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## **Analytical Report Number : 22-82420**

<b>Project / Site name:</b>	Begbroke	<b>Samples received on:</b>	06/09/2022
<b>Your job number:</b>	19113	<b>Samples instructed on/ Analysis started on:</b>	06/09/2022
<b>Your order number:</b>	PO19941	<b>Analysis completed by:</b>	13/09/2022
<b>Report Issue Number:</b>	1	<b>Report issued on:</b>	13/09/2022
<b>Samples Analysed:</b>	15 soil samples		

**Signed:** 

Anna Goc  
Junior Reporting Specialist  
**For & on behalf of i2 Analytical Ltd.**

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils - 4 weeks from reporting  
leachates - 2 weeks from reporting  
waters - 2 weeks from reporting  
asbestos - 6 months from reporting

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Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement. Application of uncertainty of measurement would provide a range within which the true result lies. An estimate of measurement uncertainty can be provided on request.

Analytical Report Number: 22-82420

Project / Site name: Begbroke

Your Order No: PO19941

Lab Sample Number	2415222				2415223		2415224		2415225		2415226	
Sample Reference	WS250				WS227		WS243		WS245		WS246	
Sample Number	None Supplied				None Supplied		None Supplied		None Supplied		None Supplied	
Depth (m)	0.20				0.70		0.40		0.50		0.20	
Date Sampled	01/09/2022				23/08/2022		02/09/2022		02/09/2022		02/09/2022	
Time Taken	None Supplied				None Supplied		None Supplied		None Supplied		None Supplied	
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status									
Stone Content	%	0.1	NONE	< 0.1	< 0.1	54	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	
Moisture Content	%	0.01	NONE	6.2	3.4	6.2	9.9	7.2	7.2	7.2	7.2	
Total mass of sample received	kg	0.001	NONE	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	

Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	NTK	NTK	NTK	NTK	NTK

#### General Inorganics

pH - Automated	pH Units	N/A	MCERTS	7.7	7.8	7.9	7.9	7.6
Free Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Water Soluble SO <sub>4</sub> 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.0095	< 0.0013	0.0029	0.005	0.0038
Fraction Organic Carbon (FOC) Automated	N/A	0.001	MCERTS	0.019	0.0059	0.0057	0.0014	0.011

#### Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

#### Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Chrysene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05

#### Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80

#### Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	17	37	58	31	23
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	0.99	1.1	1.6	1.2	1.2
Boron (water soluble)	mg/kg	0.2	MCERTS	1.7	0.3	2	0.3	1.6
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	1.8	MCERTS	1.9	< 1.8	< 1.8	< 1.8	< 1.8
Chromium (III)	mg/kg	1	NONE	38	39	63	42	44
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	40	40	64	42	44
Copper (aqua regia extractable)	mg/kg	1	MCERTS	11	11	17	11	17
Lead (aqua regia extractable)	mg/kg	1	MCERTS	22	18	18	14	20
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	21	26	39	42	27
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	57	72	110	71	64
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	66	68	98	54	97

Analytical Report Number: 22-82420

Project / Site name: Begbroke

Your Order No: PO19941

Lab Sample Number	2415222	2415223	2415224	2415225	2415226
Sample Reference	WS250	WS227	WS243	WS245	WS246
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)	0.20	0.70	0.40	0.50	0.20
Date Sampled	01/09/2022	23/08/2022	02/09/2022	02/09/2022	02/09/2022
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status		

#### Monoaromatics & Oxygenates

Compound	Units	Limit of detection	Accreditation Status					
Benzene	µg/kg	1	MCERTS	-	-	< 1.0	-	-
Toluene	µg/kg	1	MCERTS	-	-	< 1.0	-	-
Ethylbenzene	µg/kg	1	MCERTS	-	-	< 1.0	-	-
p & m-xylene	µg/kg	1	MCERTS	-	-	< 1.0	-	-
o-xylene	µg/kg	1	MCERTS	-	-	< 1.0	-	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	-	-	< 1.0	-	-

#### Petroleum Hydrocarbons

Compound	Units	Limit of detection	Accreditation Status					
TPH-CWG - Aliphatic >EC5 - EC6 <sub>HS_1D_AL</sub>	mg/kg	0.001	MCERTS	-	-	< 0.001	-	-
TPH-CWG - Aliphatic >EC6 - EC8 <sub>HS_1D_AL</sub>	mg/kg	0.001	MCERTS	-	-	< 0.001	-	-
TPH-CWG - Aliphatic >EC8 - EC10 <sub>HS_1D_AL</sub>	mg/kg	0.001	MCERTS	-	-	< 0.001	-	-
TPH-CWG - Aliphatic >EC10 - EC12 <sub>EH_CU_1D_AL</sub>	mg/kg	1	MCERTS	-	-	< 1.0	-	-
TPH-CWG - Aliphatic >EC12 - EC16 <sub>EH_CU_1D_AL</sub>	mg/kg	2	MCERTS	-	-	< 2.0	-	-
TPH-CWG - Aliphatic >EC16 - EC21 <sub>EH_CU_1D_AL</sub>	mg/kg	8	MCERTS	-	-	< 8.0	-	-
TPH-CWG - Aliphatic >EC21 - EC35 <sub>EH_CU_1D_AL</sub>	mg/kg	8	MCERTS	-	-	< 8.0	-	-
TPH-CWG - Aliphatic >EC16 - EC35 <sub>EH_CU_1D_AL</sub>	mg/kg	10	MCERTS	-	-	< 10	-	-
TPH-CWG - Aliphatic > EC35 - EC44 <sub>EH_CU_1D_AL</sub>	mg/kg	8.4	NONE	-	-	< 8.4	-	-
TPH-CWG - Aliphatic (EC5 - EC35) <sub>EH_CU+HS_1D_AL</sub>	mg/kg	10	MCERTS	-	-	< 10	-	-
TPH-CWG - Aliphatic (EC5 - EC44) <sub>EH_CU+HS_1D_AL</sub>	mg/kg	10	NONE	-	-	< 10	-	-

Compound	Units	Limit of detection	Accreditation Status					
TPH-CWG - Aromatic >EC5 - EC7 <sub>HS_1D_AR</sub>	mg/kg	0.001	MCERTS	-	-	< 0.001	-	-
TPH-CWG - Aromatic >EC7 - EC8 <sub>HS_1D_AR</sub>	mg/kg	0.001	MCERTS	-	-	< 0.001	-	-
TPH-CWG - Aromatic >EC8 - EC10 <sub>HS_1D_AR</sub>	mg/kg	0.001	MCERTS	-	-	< 0.001	-	-
TPH-CWG - Aromatic >EC10 - EC12 <sub>EH_CU_1D_AR</sub>	mg/kg	1	MCERTS	-	-	< 1.0	-	-
TPH-CWG - Aromatic >EC12 - EC16 <sub>EH_CU_1D_AR</sub>	mg/kg	2	MCERTS	-	-	< 2.0	-	-
TPH-CWG - Aromatic >EC16 - EC21 <sub>EH_CU_1D_AR</sub>	mg/kg	10	MCERTS	-	-	< 10	-	-
TPH-CWG - Aromatic >EC21 - EC35 <sub>EH_CU_1D_AR</sub>	mg/kg	10	MCERTS	-	-	< 10	-	-
TPH-CWG - Aromatic > EC35 - EC44 <sub>EH_CU_1D_AR</sub>	mg/kg	8.4	NONE	-	-	< 8.4	-	-
TPH-CWG - Aromatic (EC5 - EC35) <sub>EH_CU+HS_1D_AR</sub>	mg/kg	10	MCERTS	-	-	< 10	-	-
TPH-CWG - Aromatic (EC5 - EC44) <sub>EH_CU+HS_1D_AR</sub>	mg/kg	10	NONE	-	-	< 10	-	-

TPH Total C5 - C44 <sub>EH_CU+HS_1D_TOTAL</sub>	mg/kg	10	NONE	-	-	< 10	-	-
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#### Pesticide and Herbicide Screen

GCMS Pesticide Screen		N/A	NONE	-	-	-	-	None Detected
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U/S = Unsuitable Sample I/S = Insufficient Sample

Analytical Report Number: 22-82420

Project / Site name: Begbroke

Your Order No: PO19941

Lab Sample Number	2415227				2415228		2415229		2415230		2415231	
Sample Reference	WS237				WS229		WS243		WS245		WS206	
Sample Number	None Supplied				None Supplied		None Supplied		None Supplied		None Supplied	
Depth (m)	0.20				0.10		0.20		0.20		0.20	
Date Sampled	02/09/2022				02/09/2022		02/09/2022		02/09/2022		24/08/2022	
Time Taken	None Supplied				None Supplied		None Supplied		None Supplied		None Supplied	
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status									
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	19	< 0.1				
Moisture Content	%	0.01	NONE	2.5	3.2	3.4	8.2	4.2				
Total mass of sample received	kg	0.001	NONE	0.8	0.8	0.8	0.8	0.8				

Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	NTK	NTK	NTK	NTK	NTK

#### General Inorganics

pH - Automated	pH Units	N/A	MCERTS	7.6	7.5	7.9	7.9	7.7
Free Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Water Soluble SO <sub>4</sub> 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.0044	0.0035	0.0045	0.0044	0.0043
Fraction Organic Carbon (FOC) Automated	N/A	0.001	MCERTS	0.011	0.0095	0.024	0.014	0.023

#### Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

#### Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Chrysene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05

#### Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80

#### Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	48	48	52	18	64
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	1.3	1.4	1.3	1.1	1.4
Boron (water soluble)	mg/kg	0.2	MCERTS	0.9	0.7	1.4	1.4	2.7
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	1.8	MCERTS	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8
Chromium (III)	mg/kg	1	NONE	45	48	46	37	52
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	46	49	47	37	53
Copper (aqua regia extractable)	mg/kg	1	MCERTS	15	15	21	11	16
Lead (aqua regia extractable)	mg/kg	1	MCERTS	31	28	29	19	36
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	29	33	34	24	34
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	83	120	84	55	110
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	86	90	120	71	110

Analytical Report Number: 22-82420

Project / Site name: Begbroke

Your Order No: PO19941

Lab Sample Number	2415227	2415228	2415229	2415230	2415231
Sample Reference	WS237	WS229	WS243	WS245	WS206
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)	0.20	0.10	0.20	0.20	0.20
Date Sampled	02/09/2022	02/09/2022	02/09/2022	02/09/2022	24/08/2022
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status		

#### Monoaromatics & Oxygenates

Compound	Units	Limit of detection	Accreditation Status					
Benzene	µg/kg	1	MCERTS	-	-	-	-	-
Toluene	µg/kg	1	MCERTS	-	-	-	-	-
Ethylbenzene	µg/kg	1	MCERTS	-	-	-	-	-
p & m-xylene	µg/kg	1	MCERTS	-	-	-	-	-
o-xylene	µg/kg	1	MCERTS	-	-	-	-	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	-	-	-	-	-

#### Petroleum Hydrocarbons

Compound	Units	Limit of detection	Accreditation Status					
TPH-CWG - Aliphatic >EC5 - EC6 <sub>HS_1D_AL</sub>	mg/kg	0.001	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC6 - EC8 <sub>HS_1D_AL</sub>	mg/kg	0.001	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC8 - EC10 <sub>HS_1D_AL</sub>	mg/kg	0.001	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC10 - EC12 <sub>EH_CU_1D_AL</sub>	mg/kg	1	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC12 - EC16 <sub>EH_CU_1D_AL</sub>	mg/kg	2	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC16 - EC21 <sub>EH_CU_1D_AL</sub>	mg/kg	8	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC21 - EC35 <sub>EH_CU_1D_AL</sub>	mg/kg	8	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC16 - EC35 <sub>EH_CU_1D_AL</sub>	mg/kg	10	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic > EC35 - EC44 <sub>EH_CU_1D_AL</sub>	mg/kg	8.4	NONE	-	-	-	-	-
TPH-CWG - Aliphatic (EC5 - EC35) <sub>EH_CU+HS_1D_AL</sub>	mg/kg	10	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic (EC5 - EC44) <sub>EH_CU+HS_1D_AL</sub>	mg/kg	10	NONE	-	-	-	-	-

TPH-CWG - Aromatic >EC5 - EC7 <sub>HS_1D_AR</sub>	mg/kg	0.001	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic >EC7 - EC8 <sub>HS_1D_AR</sub>	mg/kg	0.001	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic >EC8 - EC10 <sub>HS_1D_AR</sub>	mg/kg	0.001	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic >EC10 - EC12 <sub>EH_CU_1D_AR</sub>	mg/kg	1	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic >EC12 - EC16 <sub>EH_CU_1D_AR</sub>	mg/kg	2	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic >EC16 - EC21 <sub>EH_CU_1D_AR</sub>	mg/kg	10	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic >EC21 - EC35 <sub>EH_CU_1D_AR</sub>	mg/kg	10	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic > EC35 - EC44 <sub>EH_CU_1D_AR</sub>	mg/kg	8.4	NONE	-	-	-	-	-
TPH-CWG - Aromatic (EC5 - EC35) <sub>EH_CU+HS_1D_AR</sub>	mg/kg	10	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic (EC5 - EC44) <sub>EH_CU+HS_1D_AR</sub>	mg/kg	10	NONE	-	-	-	-	-

TPH Total C5 - C44 <sub>EH_CU+HS_1D_TOTAL</sub>	mg/kg	10	NONE	-	-	-	-	-
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#### Pesticide and Herbicide Screen

GCMS Pesticide Screen		N/A	NONE	-	-	-	-	-
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U/S = Unsuitable Sample I/S = Insufficient Sample



Analytical Report Number: 22-82420

Project / Site name: Begbroke

Your Order No: PO19941

Lab Sample Number				2415232	2415233	2415234	2415235	2415236
Sample Reference				WS218	WS218	WS223	WS219	WS220
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.10	0.60	0.10	0.20	0.10
Date Sampled				24/08/2022	24/08/2022	24/08/2022	24/08/2022	24/08/2022
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	1.9	3.6	3.6	4.7	4.6
Total mass of sample received	kg	0.001	NONE	0.4	0.8	0.8	0.8	0.8

Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	SSZ	SSZ	SSZ	SSZ	SSZ

#### General Inorganics

pH - Automated	pH Units	N/A	MCERTS	7.6	7.8	7.5	7.9	7.9
Free Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Water Soluble SO <sub>4</sub> 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.0045	0.0024	0.0083	0.0056	0.0047
Fraction Organic Carbon (FOC) Automated	N/A	0.001	MCERTS	0.014	0.0092	0.02	0.018	0.013

#### Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
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#### Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Chrysene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05

#### Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80
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#### Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	48	51	59	27	22
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	1.3	1.2	1.5	0.81	0.91
Boron (water soluble)	mg/kg	0.2	MCERTS	0.5	0.6	1.8	0.6	0.5
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	1.8	MCERTS	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8
Chromium (III)	mg/kg	1	NONE	47	43	53	30	32
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	48	44	54	31	33
Copper (aqua regia extractable)	mg/kg	1	MCERTS	12	11	17	14	14
Lead (aqua regia extractable)	mg/kg	1	MCERTS	31	23	28	23	25
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	30	29	35	20	21
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	83	79	97	49	53
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	84	87	120	73	65

Analytical Report Number: 22-82420

Project / Site name: Begbroke

Your Order No: PO19941

Lab Sample Number	2415232	2415233	2415234	2415235	2415236
Sample Reference	WS218	WS218	WS223	WS219	WS220
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)	0.10	0.60	0.10	0.20	0.10
Date Sampled	24/08/2022	24/08/2022	24/08/2022	24/08/2022	24/08/2022
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status		

#### Monoaromatics & Oxygenates

Compound	Units	Limit of detection	Accreditation Status					
Benzene	µg/kg	1	MCERTS	-	-	< 1.0	-	-
Toluene	µg/kg	1	MCERTS	-	-	< 1.0	-	-
Ethylbenzene	µg/kg	1	MCERTS	-	-	< 1.0	-	-
p & m-xylene	µg/kg	1	MCERTS	-	-	< 1.0	-	-
o-xylene	µg/kg	1	MCERTS	-	-	< 1.0	-	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	-	-	< 1.0	-	-

#### Petroleum Hydrocarbons

Compound	Units	Limit of detection	Accreditation Status					
TPH-CWG - Aliphatic >EC5 - EC6 <sub>HS_1D_AL</sub>	mg/kg	0.001	MCERTS	-	-	< 0.001	-	-
TPH-CWG - Aliphatic >EC6 - EC8 <sub>HS_1D_AL</sub>	mg/kg	0.001	MCERTS	-	-	< 0.001	-	-
TPH-CWG - Aliphatic >EC8 - EC10 <sub>HS_1D_AL</sub>	mg/kg	0.001	MCERTS	-	-	< 0.001	-	-
TPH-CWG - Aliphatic >EC10 - EC12 <sub>EH_CU_1D_AL</sub>	mg/kg	1	MCERTS	-	-	< 1.0	-	-
TPH-CWG - Aliphatic >EC12 - EC16 <sub>EH_CU_1D_AL</sub>	mg/kg	2	MCERTS	-	-	< 2.0	-	-
TPH-CWG - Aliphatic >EC16 - EC21 <sub>EH_CU_1D_AL</sub>	mg/kg	8	MCERTS	-	-	< 8.0	-	-
TPH-CWG - Aliphatic >EC21 - EC35 <sub>EH_CU_1D_AL</sub>	mg/kg	8	MCERTS	-	-	< 8.0	-	-
TPH-CWG - Aliphatic >EC16 - EC35 <sub>EH_CU_1D_AL</sub>	mg/kg	10	MCERTS	-	-	< 10	-	-
TPH-CWG - Aliphatic > EC35 - EC44 <sub>EH_CU_1D_AL</sub>	mg/kg	8.4	NONE	-	-	< 8.4	-	-
TPH-CWG - Aliphatic (EC5 - EC35) <sub>EH_CU+HS_1D_AL</sub>	mg/kg	10	MCERTS	-	-	< 10	-	-
TPH-CWG - Aliphatic (EC5 - EC44) <sub>EH_CU+HS_1D_AL</sub>	mg/kg	10	NONE	-	-	< 10	-	-

Compound	Units	Limit of detection	Accreditation Status					
TPH-CWG - Aromatic >EC5 - EC7 <sub>HS_1D_AR</sub>	mg/kg	0.001	MCERTS	-	-	< 0.001	-	-
TPH-CWG - Aromatic >EC7 - EC8 <sub>HS_1D_AR</sub>	mg/kg	0.001	MCERTS	-	-	< 0.001	-	-
TPH-CWG - Aromatic >EC8 - EC10 <sub>HS_1D_AR</sub>	mg/kg	0.001	MCERTS	-	-	< 0.001	-	-
TPH-CWG - Aromatic >EC10 - EC12 <sub>EH_CU_1D_AR</sub>	mg/kg	1	MCERTS	-	-	< 1.0	-	-
TPH-CWG - Aromatic >EC12 - EC16 <sub>EH_CU_1D_AR</sub>	mg/kg	2	MCERTS	-	-	< 2.0	-	-
TPH-CWG - Aromatic >EC16 - EC21 <sub>EH_CU_1D_AR</sub>	mg/kg	10	MCERTS	-	-	< 10	-	-
TPH-CWG - Aromatic >EC21 - EC35 <sub>EH_CU_1D_AR</sub>	mg/kg	10	MCERTS	-	-	< 10	-	-
TPH-CWG - Aromatic > EC35 - EC44 <sub>EH_CU_1D_AR</sub>	mg/kg	8.4	NONE	-	-	< 8.4	-	-
TPH-CWG - Aromatic (EC5 - EC35) <sub>EH_CU+HS_1D_AR</sub>	mg/kg	10	MCERTS	-	-	< 10	-	-
TPH-CWG - Aromatic (EC5 - EC44) <sub>EH_CU+HS_1D_AR</sub>	mg/kg	10	NONE	-	-	< 10	-	-

TPH Total C5 - C44 <sub>EH_CU+HS_1D_TOTAL</sub>	mg/kg	10	NONE	-	-	< 10	-	-
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#### Pesticide and Herbicide Screen

GCMS Pesticide Screen		N/A	NONE	-	-	-	-	-
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U/S = Unsuitable Sample I/S = Insufficient Sample

**Analytical Report Number : 22-82420**

**Project / Site name: Begbroke**

\* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
2415222	WS250	None Supplied	0.2	Brown sand with fibrous material and gravel
2415223	WS227	None Supplied	0.7	Brown sand with gravel.
2415224	WS243	None Supplied	0.4	Brown clay and sand with fibrous material and stones.
2415225	WS245	None Supplied	0.5	Brown clay and loam with gravel.
2415226	WS246	None Supplied	0.2	Brown clay and loam with gravel.
2415227	WS237	None Supplied	0.2	Brown clay and loam with gravel and vegetation.
2415228	WS229	None Supplied	0.1	Brown clay and loam with gravel and vegetation.
2415229	WS243	None Supplied	0.2	Brown clay and loam with gravel and vegetation.
2415230	WS245	None Supplied	0.2	Brown sand with fibrous material and stones.
2415231	WS206	None Supplied	0.2	Brown sand with gravel and fibrous material.
2415232	WS218	None Supplied	0.1	Brown sand with fibrous material and gravel
2415233	WS218	None Supplied	0.6	Brown sand with gravel.
2415234	WS223	None Supplied	0.1	Brown sand with gravel and fibrous material.
2415235	WS219	None Supplied	0.2	Brown sand with fibrous material and gravel
2415236	WS220	None Supplied	0.1	Brown sand with fibrous material and gravel

**Analytical Report Number : 22-82420**

**Project / Site name: Begbroke**

**Water matrix abbreviations:**

**Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)**

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Sulphate, water soluble, in soil (16hr extraction)	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In house method.	L038-PL	D	MCERTS
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with dispersion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES.	In-house method based on Second Site Properties version 3	L038-PL	D	MCERTS
Free cyanide in soil	Determination of free cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	MCERTS
Moisture Content	Moisture content, determined gravimetrically. (30 oC)	In house method.	L019-UK/PL	W	NONE
Monohydric phenols in soil	Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	MCERTS
Speciated EPA-16 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement.	In house method.	L099-PL	D	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
BTEX and MTBE in soil (Monoaromatics)	Determination of BTEX in soil by headspace GC-MS.	In-house method based on USEPA8260	L073B-PL	W	MCERTS
TPH Chromatogram in Soil	TPH Chromatogram in Soil.	In-house method	L064-PL	D	NONE
Cr (III) in soil	In-house method by calculation from total Cr and Cr VI.	In-house method by calculation	L080-PL	W	NONE
TPHCWG (Soil)	Determination of hexane extractable hydrocarbons in soil by GC-MS/GC-FID.	In-house method with silica gel split/clean up.	L088/76-PL	W	MCERTS
TPH in (Soil)	Determination of TPH bands by HS-GC-MS/GC-FID	In-house method, TPH with carbon banding and silica gel split/cleanup.	L076-PL	D	MCERTS
GC Pesticide Screen (TIC)	Analysis of unknown pesticides by GCMS	GC Pesticide Screen (TIC)	L064B	D	NONE
Fraction Organic Carbon FOC Automated	Determination of fraction of organic carbon in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	In house method	L009	D	MCERTS

Analytical Report Number : 22-82420

Project / Site name: Begbroke

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in NaOH and addition of 1,5 diphenylcarbazide followed by colorimetry.	In-house method	L080-PL	W	MCERTS

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.

For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.

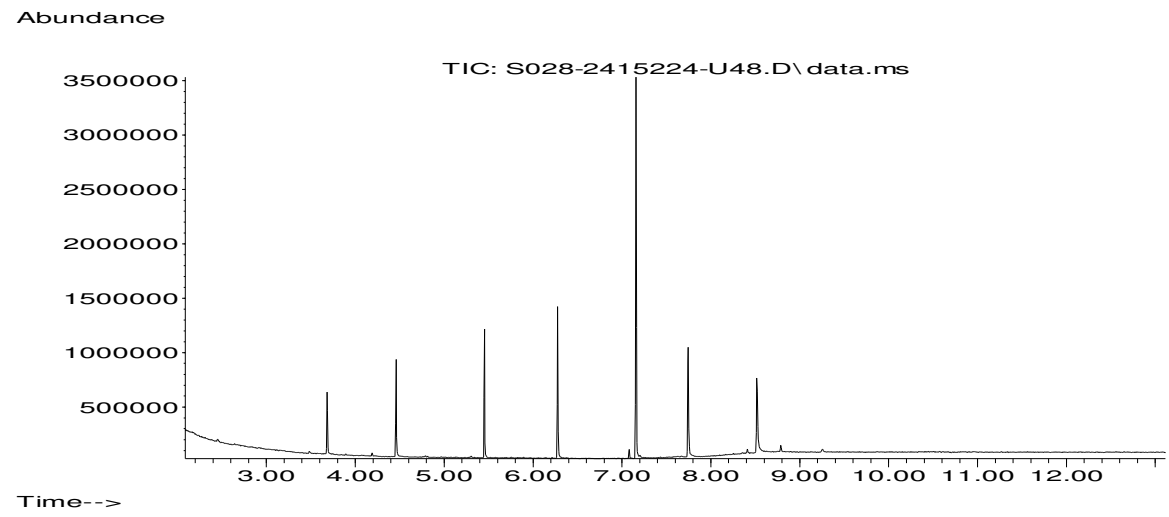
Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

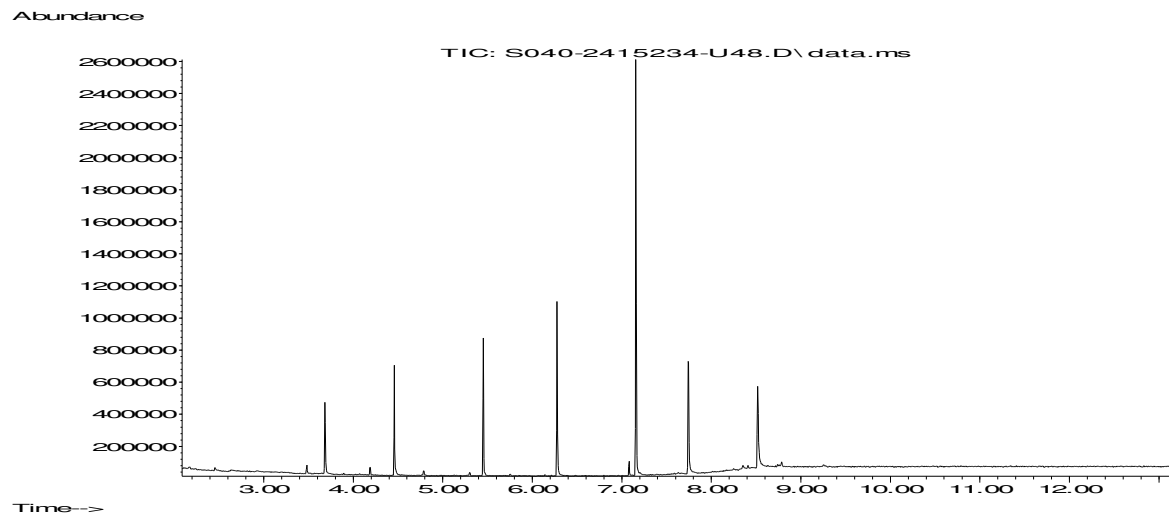
Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.

## Information in Support of Analytical Results

### List of HWOL Acronyms and Operators

Acronym	Descriptions
HS	Headspace Analysis
MS	Mass spectrometry
FID	Flame Ionisation Detector
GC	Gas Chromatography
EH	Extractable Hydrocarbons (i.e. everything extracted by the solvent(s))
CU	Clean-up - e.g. by Florisil®, silica gel
1D	GC - Single coil/column gas chromatography
2D	GC-GC - Double coil/column gas chromatography
Total	Aliphatics & Aromatics
AL	Aliphatics
AR	Aromatics
#1	EH_2D_Total but with humics mathematically subtracted
#2	EH_2D_Total but with fatty acids mathematically subtracted
_	Operator - understore to separate acronyms (exception for +)
+	Operator to indicate cumulative e.g. EH+HS_Total or EH_CU+HS_Total





## Sample Deviation Report



**Analytical Report Number : 22-82420**

**Project / Site name: Begbroke**

This deviation report indicates the sample and test deviations that apply to the samples submitted for analysis. Please note that the associated result(s) may be unreliable and should be interpreted with care.

Sample ID	Other ID	Sample Type	Lab Sample Number	Sample Deviation	Test Name	Test Ref	Test Deviation
WS206	None Supplied	S	2415231	c	Free cyanide in soil	L080-PL	c
WS218	None Supplied	S	2415232	c	Free cyanide in soil	L080-PL	c
WS218	None Supplied	S	2415233	c	Free cyanide in soil	L080-PL	c
WS219	None Supplied	S	2415235	c	Free cyanide in soil	L080-PL	c
WS220	None Supplied	S	2415236	c	Free cyanide in soil	L080-PL	c
WS223	None Supplied	S	2415234	c	Free cyanide in soil	L080-PL	c
WS227	None Supplied	S	2415223	c	Free cyanide in soil	L080-PL	c



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## **Analytical Report Number : 22-83964**

<b>Project / Site name:</b>	Begbroke	<b>Samples received on:</b>	13/09/2022
<b>Your job number:</b>	19114	<b>Samples instructed on/ Analysis started on:</b>	13/09/2022
<b>Your order number:</b>	PO19941	<b>Analysis completed by:</b>	21/09/2022
<b>Report Issue Number:</b>	1	<b>Report issued on:</b>	21/09/2022
<b>Samples Analysed:</b>	15 soil samples		

**Signed:** 

Izabela Wójcik  
Reporting Specialist  
**For & on behalf of i2 Analytical Ltd.**

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting

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Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement. Application of uncertainty of measurement would provide a range within which the true result lies. An estimate of measurement uncertainty can be provided on request.

Analytical Report Number: 22-83964  
Project / Site name: Begbroke

Lab Sample Number	2423858	2423859	2423860	2423861	2423862			
Sample Reference	TP224	TP232	TP234	TP230	TP231			
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied			
Depth (m)	0.50	0.20	0.20	0.20	0.20			
Date Sampled	08/09/2022	07/09/2022	07/09/2022	07/09/2022	07/09/2022			
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied			
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	7.1	13	12	8.6	8.2
Total mass of sample received	kg	0.001	NONE	0.9	0.9	0.9	0.9	0.9

Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	MLO	MLO	MLO	MLO	MLO

#### General Inorganics

pH - Automated	pH Units	N/A	MCERTS	7.9	7.6	7.3	7.7	7.9
Free Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Water Soluble SO <sub>4</sub> 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.0072	0.026	0.023	0.017	0.022
Fraction Organic Carbon (FOC) Automated	N/A	0.001	MCERTS	0.0087	0.029	0.022	0.022	0.028

#### Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
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#### Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Chrysene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05

#### Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80
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#### Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	29	20	15	14	15
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	1.1	1.3	0.96	0.8	0.88
Boron (water soluble)	mg/kg	0.2	MCERTS	0.8	2	1.1	0.3	1.3
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	1.8	MCERTS	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8
Chromium (III)	mg/kg	1	NONE	45	42	38	31	36
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	45	44	39	32	36
Copper (aqua regia extractable)	mg/kg	1	MCERTS	16	19	12	11	14
Lead (aqua regia extractable)	mg/kg	1	MCERTS	19	33	22	19	22
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	23	25	18	17	17
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	69	61	53	46	49
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	62	92	58	53	61

Analytical Report Number: 22-83964  
Project / Site name: Begbroke

Lab Sample Number	2423858				2423859				2423860				2423861				2423862			
Sample Reference	TP224				TP232				TP234				TP230				TP231			
Sample Number	None Supplied				None Supplied				None Supplied				None Supplied				None Supplied			
Depth (m)	0.50				0.20				0.20				0.20				0.20			
Date Sampled	08/09/2022				07/09/2022				07/09/2022				07/09/2022				07/09/2022			
Time Taken	None Supplied				None Supplied				None Supplied				None Supplied				None Supplied			
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status																	

#### Monoaromatics & Oxygenates

Parameter	Units	Limit of detection	Accreditation Status	2423858	2423859	2423860	2423861	2423862
Benzene	µg/kg	1	MCERTS	-	-	-	< 1.0	-
Toluene	µg/kg	1	MCERTS	-	-	-	< 1.0	-
Ethylbenzene	µg/kg	1	MCERTS	-	-	-	< 1.0	-
p & m-xylene	µg/kg	1	MCERTS	-	-	-	< 1.0	-
o-xylene	µg/kg	1	MCERTS	-	-	-	< 1.0	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	-	-	-	< 1.0	-

#### Petroleum Hydrocarbons

Parameter	Units	Limit of detection	Accreditation Status	2423858	2423859	2423860	2423861	2423862
TPH-CWG - Aliphatic >EC5 - EC6 <sub>HS_ID_AL</sub>	mg/kg	0.001	MCERTS	-	-	-	< 0.001	-
TPH-CWG - Aliphatic >EC6 - EC8 <sub>HS_ID_AL</sub>	mg/kg	0.001	MCERTS	-	-	-	< 0.001	-
TPH-CWG - Aliphatic >EC8 - EC10 <sub>HS_ID_AL</sub>	mg/kg	0.001	MCERTS	-	-	-	< 0.001	-
TPH-CWG - Aliphatic >EC10 - EC12 <sub>EH_CU_ID_AL</sub>	mg/kg	1	MCERTS	-	-	-	< 1.0	-
TPH-CWG - Aliphatic >EC12 - EC16 <sub>EH_CU_ID_AL</sub>	mg/kg	2	MCERTS	-	-	-	< 2.0	-
TPH-CWG - Aliphatic >EC16 - EC21 <sub>EH_CU_ID_AL</sub>	mg/kg	8	MCERTS	-	-	-	< 8.0	-
TPH-CWG - Aliphatic >EC21 - EC35 <sub>EH_CU_ID_AL</sub>	mg/kg	8	MCERTS	-	-	-	< 8.0	-
TPH-CWG - Aliphatic >EC16 - EC35 <sub>EH_CU_ID_AL</sub>	mg/kg	10	MCERTS	-	-	-	< 10	-
TPH-CWG - Aliphatic > EC35 - EC44 <sub>EH_CU_ID_AL</sub>	mg/kg	8.4	NONE	-	-	-	< 8.4	-
TPH-CWG - Aliphatic (EC5 - EC35) <sub>EH_CU+HS_ID_AL</sub>	mg/kg	10	MCERTS	-	-	-	< 10	-
TPH-CWG - Aliphatic (EC5 - EC44) <sub>EH_CU+HS_ID_AL</sub>	mg/kg	10	NONE	-	-	-	< 10	-

Parameter	Units	Limit of detection	Accreditation Status	2423858	2423859	2423860	2423861	2423862
TPH-CWG - Aromatic >EC5 - EC7 <sub>HS_ID_AR</sub>	mg/kg	0.001	MCERTS	-	-	-	< 0.001	-
TPH-CWG - Aromatic >EC7 - EC8 <sub>HS_ID_AR</sub>	mg/kg	0.001	MCERTS	-	-	-	< 0.001	-
TPH-CWG - Aromatic >EC8 - EC10 <sub>HS_ID_AR</sub>	mg/kg	0.001	MCERTS	-	-	-	< 0.001	-
TPH-CWG - Aromatic >EC10 - EC12 <sub>EH_CU_ID_AR</sub>	mg/kg	1	MCERTS	-	-	-	< 1.0	-
TPH-CWG - Aromatic >EC12 - EC16 <sub>EH_CU_ID_AR</sub>	mg/kg	2	MCERTS	-	-	-	< 2.0	-
TPH-CWG - Aromatic >EC16 - EC21 <sub>EH_CU_ID_AR</sub>	mg/kg	10	MCERTS	-	-	-	< 10	-
TPH-CWG - Aromatic >EC21 - EC35 <sub>EH_CU_ID_AR</sub>	mg/kg	10	MCERTS	-	-	-	< 10	-
TPH-CWG - Aromatic > EC35 - EC44 <sub>EH_CU_ID_AR</sub>	mg/kg	8.4	NONE	-	-	-	< 8.4	-
TPH-CWG - Aromatic (EC5 - EC35) <sub>EH_CU+HS_ID_AR</sub>	mg/kg	10	MCERTS	-	-	-	< 10	-
TPH-CWG - Aromatic (EC5 - EC44) <sub>EH_CU+HS_ID_AR</sub>	mg/kg	10	NONE	-	-	-	< 10	-

TPH Total C5 - C44 <sub>EH_CU+HS_ID_TOTAL</sub>	mg/kg	10	NONE	-	-	-	< 10	-
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U/S = Unsuitable Sample I/S = Insufficient Sample

Analytical Report Number: 22-83964  
Project / Site name: Begbroke

Lab Sample Number	2423863	2423864	2423865	2423866	2423867			
Sample Reference	TP201	TP205	TP211	WS249	WS252			
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied			
Depth (m)	0.70	0.15	0.15	0.10	0.10			
Date Sampled	09/09/2022	09/09/2022	09/09/2022	06/09/2022	06/09/2022			
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied			
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	5.8	5.3	4.5	4.4	9.3
Total mass of sample received	kg	0.001	NONE	0.9	0.9	0.9	0.9	0.9

Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	KSZ	KSZ	KSZ	GFI	GFI

#### General Inorganics

pH - Automated	pH Units	N/A	MCERTS	8.4	7.8	7.9	6.9	7.9
Free Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Water Soluble SO <sub>4</sub> 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.0026	0.0042	0.003	0.0096	0.026
Fraction Organic Carbon (FOC) Automated	N/A	0.001	MCERTS	0.0027	0.02	0.012	0.015	0.025

#### Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
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#### Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Chrysene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05

#### Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80
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#### Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	83	54	39	18	24
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	1.8	1.5	1.1	0.81	1.2
Boron (water soluble)	mg/kg	0.2	MCERTS	0.2	0.5	0.7	0.5	1.8
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	1.8	MCERTS	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8
Chromium (III)	mg/kg	1	NONE	66	53	40	32	44
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	66	54	41	32	45
Copper (aqua regia extractable)	mg/kg	1	MCERTS	17	22	16	8.9	14
Lead (aqua regia extractable)	mg/kg	1	MCERTS	18	31	32	15	23
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	48	35	25	16	26
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	130	97	75	51	68
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	130	100	70	40	76

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Lab Sample Number	2423863				2423864				2423865				2423866				2423867			
Sample Reference	TP201				TP205				TP211				WS249				WS252			
Sample Number	None Supplied				None Supplied				None Supplied				None Supplied				None Supplied			
Depth (m)	0.70				0.15				0.15				0.10				0.10			
Date Sampled	09/09/2022				09/09/2022				09/09/2022				06/09/2022				06/09/2022			
Time Taken	None Supplied				None Supplied				None Supplied				None Supplied				None Supplied			
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status																	

**Monoaromatics & Oxygenates**

Parameter	Units	Limit of detection	Accreditation Status	2423863	2423864	2423865	2423866	2423867
Benzene	µg/kg	1	MCERTS	-	-	-	-	-
Toluene	µg/kg	1	MCERTS	-	-	-	-	-
Ethylbenzene	µg/kg	1	MCERTS	-	-	-	-	-
p & m-xylene	µg/kg	1	MCERTS	-	-	-	-	-
o-xylene	µg/kg	1	MCERTS	-	-	-	-	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	-	-	-	-	-

**Petroleum Hydrocarbons**

Parameter	Units	Limit of detection	Accreditation Status	2423863	2423864	2423865	2423866	2423867
TPH-CWG - Aliphatic >EC5 - EC6 <sub>HS_ID_AL</sub>	mg/kg	0.001	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC6 - EC8 <sub>HS_ID_AL</sub>	mg/kg	0.001	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC8 - EC10 <sub>HS_ID_AL</sub>	mg/kg	0.001	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC10 - EC12 <sub>EH_CU_ID_AL</sub>	mg/kg	1	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC12 - EC16 <sub>EH_CU_ID_AL</sub>	mg/kg	2	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC16 - EC21 <sub>EH_CU_ID_AL</sub>	mg/kg	8	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC21 - EC35 <sub>EH_CU_ID_AL</sub>	mg/kg	8	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC16 - EC35 <sub>EH_CU_ID_AL</sub>	mg/kg	10	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic > EC35 - EC44 <sub>EH_CU_ID_AL</sub>	mg/kg	8.4	NONE	-	-	-	-	-
TPH-CWG - Aliphatic (EC5 - EC35) <sub>EH_CU+HS_ID_AL</sub>	mg/kg	10	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic (EC5 - EC44) <sub>EH_CU+HS_ID_AL</sub>	mg/kg	10	NONE	-	-	-	-	-

Parameter	Units	Limit of detection	Accreditation Status	2423863	2423864	2423865	2423866	2423867
TPH-CWG - Aromatic >EC5 - EC7 <sub>HS_ID_AR</sub>	mg/kg	0.001	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic >EC7 - EC8 <sub>HS_ID_AR</sub>	mg/kg	0.001	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic >EC8 - EC10 <sub>HS_ID_AR</sub>	mg/kg	0.001	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic >EC10 - EC12 <sub>EH_CU_ID_AR</sub>	mg/kg	1	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic >EC12 - EC16 <sub>EH_CU_ID_AR</sub>	mg/kg	2	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic >EC16 - EC21 <sub>EH_CU_ID_AR</sub>	mg/kg	10	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic >EC21 - EC35 <sub>EH_CU_ID_AR</sub>	mg/kg	10	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic > EC35 - EC44 <sub>EH_CU_ID_AR</sub>	mg/kg	8.4	NONE	-	-	-	-	-
TPH-CWG - Aromatic (EC5 - EC35) <sub>EH_CU+HS_ID_AR</sub>	mg/kg	10	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic (EC5 - EC44) <sub>EH_CU+HS_ID_AR</sub>	mg/kg	10	NONE	-	-	-	-	-

TPH Total C5 - C44 <sub>EH_CU+HS_ID_TOTAL</sub>	mg/kg	10	NONE	-	-	-	-	-
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U/S = Unsuitable Sample I/S = Insufficient Sample

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Project / Site name: Begbroke

Lab Sample Number	2423868	2423869	2423870	2423871	2423872			
Sample Reference	WS252	WS239	WS248	TP227	TP221			
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied			
Depth (m)	0.40	0.10	0.10	0.20	0.20			
Date Sampled	06/09/2022	06/09/2022	06/09/2022	05/09/2022	05/09/2022			
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied			
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	12	7.7	9.1	4.5	3.9
Total mass of sample received	kg	0.001	NONE	0.9	0.8	0.9	0.4	0.9

Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	KSZ	KSZ	KSZ	KSZ	KSZ

#### General Inorganics

pH - Automated	pH Units	N/A	MCERTS	8.1	8	6.8	8.1	7.5
Free Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Water Soluble SO <sub>4</sub> 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.014	0.0043	0.011	0.0027	0.005
Fraction Organic Carbon (FOC) Automated	N/A	0.001	MCERTS	0.0053	0.021	0.026	0.013	0.012

#### Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
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#### Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Chrysene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05

#### Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80
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#### Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	38	13	14	36	41
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	1.2	0.64	0.86	1	1.2
Boron (water soluble)	mg/kg	0.2	MCERTS	0.5	1	0.5	1.1	0.5
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	1.8	MCERTS	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8
Chromium (III)	mg/kg	1	NONE	45	23	33	38	43
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	46	25	34	39	43
Copper (aqua regia extractable)	mg/kg	1	MCERTS	8.5	11	13	16	20
Lead (aqua regia extractable)	mg/kg	1	MCERTS	13	23	55	20	34
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	26	15	17	25	28
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	74	41	49	72	74
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	45	48	52	89	91

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Lab Sample Number	2423868				2423869				2423870				2423871				2423872			
Sample Reference	WS252				WS239				WS248				TP227				TP221			
Sample Number	None Supplied				None Supplied				None Supplied				None Supplied				None Supplied			
Depth (m)	0.40				0.10				0.10				0.20				0.20			
Date Sampled	06/09/2022				06/09/2022				06/09/2022				05/09/2022				05/09/2022			
Time Taken	None Supplied				None Supplied				None Supplied				None Supplied				None Supplied			
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status																	

**Monoaromatics & Oxygenates**

Parameter	Units	Limit of detection	Accreditation Status	2423868	2423869	2423870	2423871	2423872
Benzene	µg/kg	1	MCERTS	-	-	-	-	-
Toluene	µg/kg	1	MCERTS	-	-	-	-	-
Ethylbenzene	µg/kg	1	MCERTS	-	-	-	-	-
p & m-xylene	µg/kg	1	MCERTS	-	-	-	-	-
o-xylene	µg/kg	1	MCERTS	-	-	-	-	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	-	-	-	-	-

**Petroleum Hydrocarbons**

Parameter	Units	Limit of detection	Accreditation Status	2423868	2423869	2423870	2423871	2423872
TPH-CWG - Aliphatic >EC5 - EC6 HS_ID_AL	mg/kg	0.001	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC6 - EC8 HS_ID_AL	mg/kg	0.001	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC8 - EC10 HS_ID_AL	mg/kg	0.001	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC10 - EC12 EH_CU_ID_AL	mg/kg	1	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC12 - EC16 EH_CU_ID_AL	mg/kg	2	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC16 - EC21 EH_CU_ID_AL	mg/kg	8	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC21 - EC35 EH_CU_ID_AL	mg/kg	8	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC16 - EC35 EH_CU_ID_AL	mg/kg	10	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic > EC35 - EC44 EH_CU_ID_AL	mg/kg	8.4	NONE	-	-	-	-	-
TPH-CWG - Aliphatic (EC5 - EC35) EH_CU+HS_ID_AL	mg/kg	10	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic (EC5 - EC44) EH_CU+HS_ID_AL	mg/kg	10	NONE	-	-	-	-	-

Parameter	Units	Limit of detection	Accreditation Status	2423868	2423869	2423870	2423871	2423872
TPH-CWG - Aromatic >EC5 - EC7 HS_ID_AR	mg/kg	0.001	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic >EC7 - EC8 HS_ID_AR	mg/kg	0.001	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic >EC8 - EC10 HS_ID_AR	mg/kg	0.001	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic >EC10 - EC12 EH_CU_ID_AR	mg/kg	1	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic >EC12 - EC16 EH_CU_ID_AR	mg/kg	2	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic >EC16 - EC21 EH_CU_ID_AR	mg/kg	10	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic >EC21 - EC35 EH_CU_ID_AR	mg/kg	10	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic > EC35 - EC44 EH_CU_ID_AR	mg/kg	8.4	NONE	-	-	-	-	-
TPH-CWG - Aromatic (EC5 - EC35) EH_CU+HS_ID_AR	mg/kg	10	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic (EC5 - EC44) EH_CU+HS_ID_AR	mg/kg	10	NONE	-	-	-	-	-

TPH Total C5 - C44 EH_CU+HS_ID_TOTAL	mg/kg	10	NONE	-	-	-	-	-
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U/S = Unsuitable Sample I/S = Insufficient Sample

**Analytical Report Number : 22-83964**

**Project / Site name: Begbroke**

\* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
2423858	TP224	None Supplied	0.5	Brown clay and sand.
2423859	TP232	None Supplied	0.2	Brown loam and clay with vegetation.
2423860	TP234	None Supplied	0.2	Brown loam and clay with vegetation and gravel
2423861	TP230	None Supplied	0.2	Brown loam and clay with vegetation and gravel
2423862	TP231	None Supplied	0.2	Brown loam and clay with vegetation and gravel
2423863	TP201	None Supplied	0.7	Brown sandy clay with gravel.
2423864	TP205	None Supplied	0.15	Brown loam and clay with vegetation and gravel
2423865	TP211	None Supplied	0.15	Brown loam and clay with vegetation and gravel
2423866	WS249	None Supplied	0.1	Brown loam and clay with vegetation and gravel
2423867	WS252	None Supplied	0.1	Brown loam and clay with vegetation and gravel
2423868	WS252	None Supplied	0.4	Brown clay and sand with vegetation.
2423869	WS239	None Supplied	0.1	Brown loam and clay with vegetation and gravel
2423870	WS248	None Supplied	0.1	Brown loam with gravel and vegetation.
2423871	TP227	None Supplied	0.2	Brown loam with gravel and vegetation.
2423872	TP221	None Supplied	0.2	Brown loam with gravel and vegetation.



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Project / Site name: Begbroke

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Sulphate, water soluble, in soil (16hr extraction)	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In house method.	L038-PL	D	MCERTS
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with dispersion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES.	In-house method based on Second Site Properties version 3	L038-PL	D	MCERTS
Free cyanide in soil	Determination of free cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	MCERTS
Moisture Content	Moisture content, determined gravimetrically. (30 oC)	In house method.	L019-UK/PL	W	NONE
Monohydric phenols in soil	Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	MCERTS
Speciated EPA-16 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement.	In house method.	L099-PL	D	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
BTEX and MTBE in soil (Monoaromatics)	Determination of BTEX in soil by headspace GC-MS.	In-house method based on USEPA8260	L073B-PL	W	MCERTS
TPH Chromatogram in Soil	TPH Chromatogram in Soil.	In-house method	L064-PL	D	NONE
Cr (III) in soil	In-house method by calculation from total Cr and Cr VI.	In-house method by calculation	L080-PL	W	NONE
TPHCWG (Soil)	Determination of hexane extractable hydrocarbons in soil by GC-MS/GC-FID.	In-house method with silica gel split/clean up.	L088/76-PL	W	MCERTS
TPH in (Soil)	Determination of TPH bands by HS-GC-MS/GC-FID	In-house method, TPH with carbon banding and silica gel split/cleanup.	L076-PL	D	MCERTS
Fraction Organic Carbon FOC Automated	Determination of fraction of organic carbon in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	In house method	L009	D	MCERTS
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in NaOH and addition of 1,5 diphenylcarbazide followed by colorimetry.	In-house method	L080-PL	W	MCERTS

Analytical Report Number : 22-83964  
 Project / Site name: Begbroke

**Water matrix abbreviations:**

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
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For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.

For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.

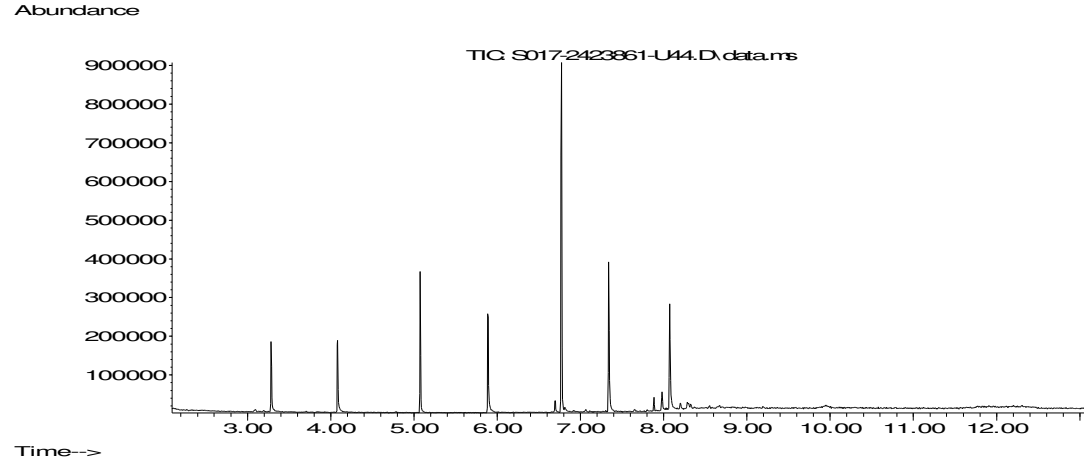
Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.

### Information in Support of Analytical Results

#### List of HWOL Acronyms and Operators

Acronym	Descriptions
HS	Headspace Analysis
MS	Mass spectrometry
FID	Flame Ionisation Detector
GC	Gas Chromatography
EH	Extractable Hydrocarbons (i.e. everything extracted by the solvent(s))
CU	Clean-up - e.g. by Florisil®, silica gel
1D	GC - Single coil/column gas chromatography
2D	GC-GC - Double coil/column gas chromatography
Total	Aliphatics & Aromatics
AL	Aliphatics
AR	Aromatics
#1	EH_2D_Total but with humics mathematically subtracted
#2	EH_2D_Total but with fatty acids mathematically subtracted
_	Operator - understore to separate acronyms (exception for +)
+	Operator to indicate cumulative e.g. EH+HS_Total or EH_CU+HS_Total



## Sample Deviation Report



**Analytical Report Number : 22-83964**

**Project / Site name: Begbroke**

This deviation report indicates the sample and test deviations that apply to the samples submitted for analysis. Please note that the associated result(s) may be unreliable and should be interpreted with care.

Sample ID	Other ID	Sample Type	Lab Sample Number	Sample Deviation	Test Name	Test Ref	Test Deviation
TP221	None Supplied	S	2423872	c	Free cyanide in soil	L080-PL	c
TP227	None Supplied	S	2423871	c	Free cyanide in soil	L080-PL	c
WS239	None Supplied	S	2423869	c	Free cyanide in soil	L080-PL	c
WS248	None Supplied	S	2423870	c	Free cyanide in soil	L080-PL	c
WS249	None Supplied	S	2423866	c	Free cyanide in soil	L080-PL	c
WS252	None Supplied	S	2423867	c	Free cyanide in soil	L080-PL	c
WS252	None Supplied	S	2423868	c	Free cyanide in soil	L080-PL	c

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## **Analytical Report Number : 22-83965**

<b>Project / Site name:</b>	Begbroke	<b>Samples received on:</b>	13/09/2022
<b>Your job number:</b>	19114	<b>Samples instructed on/ Analysis started on:</b>	13/09/2022
<b>Your order number:</b>	PO19941	<b>Analysis completed by:</b>	22/09/2022
<b>Report Issue Number:</b>	1	<b>Report issued on:</b>	22/09/2022
<b>Samples Analysed:</b>	14 soil samples		

**Signed:**

  
Dominika Warjan  
Junior Reporting Specialist  
**For & on behalf of i2 Analytical Ltd.**

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting

Excel copies of reports are only valid when accompanied by this PDF certificate.

Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement. Application of uncertainty of measurement would provide a range within which the true result lies. An estimate of measurement uncertainty can be provided on request.

Analytical Report Number: 22-83965  
 Project / Site name: Begbroke  
 Your Order No: PO19941

Lab Sample Number	2423844	2423845	2423846	2423847	2423848			
Sample Reference	WS225	WS225	WS221	WS247	WS236			
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied			
Depth (m)	0.60	0.20	0.20	0.20	0.20			
Date Sampled	31/08/2022	31/08/2022	31/08/2022	31/08/2022	05/09/2022			
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied			
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	3.7	4.9	4.3	9.2	2
Total mass of sample received	kg	0.001	NONE	0.9	0.9	0.4	0.9	0.9

Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	SPU	SPU	SPU	SPU	SPU

#### General Inorganics

pH - Automated	pH Units	N/A	MCERTS	7.8	8	7.9	7.7	8.1
Free Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Water Soluble SO <sub>4</sub> 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.0021	0.0069	0.031	0.03	0.011
Fraction Organic Carbon (FOC) Automated	N/A	0.001	MCERTS	0.015	0.013	0.023	0.018	0.042

#### Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
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#### Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	0.22
Anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	0.34
Pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	0.39
Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	0.24
Chrysene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	0.42
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	0.52
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	0.21
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	0.41
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	0.32
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	0.49

#### Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	< 0.80	< 0.80	< 0.80	< 0.80	3.56
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#### Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	51	27	31	30	25
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	1.5	0.89	1.2	1.2	0.47
Boron (water soluble)	mg/kg	0.2	MCERTS	1.8	1.1	2.4	0.8	0.3
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	1.8	MCERTS	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8
Chromium (III)	mg/kg	1	NONE	52	31	41	44	18
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	52	32	41	44	18
Copper (aqua regia extractable)	mg/kg	1	MCERTS	19	13	14	9.5	29
Lead (aqua regia extractable)	mg/kg	1	MCERTS	33	94	21	22	13
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	37	24	24	24	14
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	94	63	69	74	59
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	100	67	75	77	67

Analytical Report Number: 22-83965  
 Project / Site name: Begbroke  
 Your Order No: PO19941

Lab Sample Number	2423844				2423845	2423846	2423847	2423848
Sample Reference	WS225				WS225	WS221	WS247	WS236
Sample Number	None Supplied				None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)	0.60				0.20	0.20	0.20	0.20
Date Sampled	31/08/2022				31/08/2022	31/08/2022	31/08/2022	05/09/2022
Time Taken	None Supplied				None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					

#### Monoaromatics & Oxygenates

Compound	µg/kg	Limit of detection	Accreditation Status	2423844	2423845	2423846	2423847	2423848
Benzene	1	1	MCERTS	-	-	-	-	< 1.0
Toluene	1	1	MCERTS	-	-	-	-	< 1.0
Ethylbenzene	1	1	MCERTS	-	-	-	-	< 1.0
p & m-xylene	1	1	MCERTS	-	-	-	-	< 1.0
o-xylene	1	1	MCERTS	-	-	-	-	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	1	1	MCERTS	-	-	-	-	< 1.0

#### Petroleum Hydrocarbons

Compound	mg/kg	Limit of detection	Accreditation Status	2423844	2423845	2423846	2423847	2423848
TPH-CWG - Aliphatic >EC5 - EC6 <sub>HS,1D,AL</sub>	0.001	0.001	MCERTS	-	-	-	-	< 0.001
TPH-CWG - Aliphatic >EC6 - EC8 <sub>HS,1D,AL</sub>	0.001	0.001	MCERTS	-	-	-	-	< 0.001
TPH-CWG - Aliphatic >EC8 - EC10 <sub>HS,1D,AL</sub>	0.001	0.001	MCERTS	-	-	-	-	< 0.001
TPH-CWG - Aliphatic >EC10 - EC12 <sub>EH,CU,1D,AL</sub>	1	1	MCERTS	-	-	-	-	< 1.0
TPH-CWG - Aliphatic >EC12 - EC16 <sub>EH,CU,1D,AL</sub>	2	2	MCERTS	-	-	-	-	12
TPH-CWG - Aliphatic >EC16 - EC21 <sub>EH,CU,1D,AL</sub>	8	8	MCERTS	-	-	-	-	14
TPH-CWG - Aliphatic >EC21 - EC35 <sub>EH,CU,1D,AL</sub>	8	8	MCERTS	-	-	-	-	250
TPH-CWG - Aliphatic >EC16 - EC35 <sub>EH,CU,1D,AL</sub>	10	10	MCERTS	-	-	-	-	270
TPH-CWG - Aliphatic >EC35 - EC44 <sub>EH,CU,1D,AL</sub>	8.4	8.4	NONE	-	-	-	-	470
TPH-CWG - Aliphatic (EC5 - EC35) <sub>EH,CU+HS,1D,AL</sub>	10	10	MCERTS	-	-	-	-	280
TPH-CWG - Aliphatic (EC5 - EC44) <sub>EH,CU+HS,1D,AL</sub>	10	10	NONE	-	-	-	-	750

Compound	mg/kg	Limit of detection	Accreditation Status	2423844	2423845	2423846	2423847	2423848
TPH-CWG - Aromatic >EC5 - EC7 <sub>HS,1D,AR</sub>	0.001	0.001	MCERTS	-	-	-	-	< 0.001
TPH-CWG - Aromatic >EC7 - EC8 <sub>HS,1D,AR</sub>	0.001	0.001	MCERTS	-	-	-	-	< 0.001
TPH-CWG - Aromatic >EC8 - EC10 <sub>HS,1D,AR</sub>	0.001	0.001	MCERTS	-	-	-	-	< 0.001
TPH-CWG - Aromatic >EC10 - EC12 <sub>EH,CU,1D,AR</sub>	1	1	MCERTS	-	-	-	-	< 1.0
TPH-CWG - Aromatic >EC12 - EC16 <sub>EH,CU,1D,AR</sub>	2	2	MCERTS	-	-	-	-	9.7
TPH-CWG - Aromatic >EC16 - EC21 <sub>EH,CU,1D,AR</sub>	10	10	MCERTS	-	-	-	-	13
TPH-CWG - Aromatic >EC21 - EC35 <sub>EH,CU,1D,AR</sub>	10	10	MCERTS	-	-	-	-	440
TPH-CWG - Aromatic >EC35 - EC44 <sub>EH,CU,1D,AR</sub>	8.4	8.4	NONE	-	-	-	-	990
TPH-CWG - Aromatic (EC5 - EC35) <sub>EH,CU+HS,1D,AR</sub>	10	10	MCERTS	-	-	-	-	470
TPH-CWG - Aromatic (EC5 - EC44) <sub>EH,CU+HS,1D,AR</sub>	10	10	NONE	-	-	-	-	1500

TPH Total C5 - C44 <sub>EH,CU+HS,1D,TOTAL</sub>	mg/kg	10	NONE	-	-	-	-	2200
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#### VOCs

Compound	µg/kg	Limit of detection	Accreditation Status	2423844	2423845	2423846	2423847	2423848
Chloromethane	1	1	ISO 17025	-	-	-	-	< 1.0
Chloroethane	1	1	NONE	-	-	-	-	< 1.0
Bromomethane	1	1	ISO 17025	-	-	-	-	< 1.0
Vinyl Chloride	1	1	NONE	-	-	-	-	< 1.0
Trichlorofluoromethane	1	1	NONE	-	-	-	-	< 1.0
1,1-Dichloroethane	1	1	NONE	-	-	-	-	< 1.0
1,1,2-Trichloro 1,2,2-Trifluoroethane	1	1	ISO 17025	-	-	-	-	< 1.0
Cis-1,2-dichloroethane	1	1	MCERTS	-	-	-	-	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	1	1	MCERTS	-	-	-	-	< 1.0
1,1-Dichloroethane	1	1	MCERTS	-	-	-	-	< 1.0
2,2-Dichloropropane	1	1	MCERTS	-	-	-	-	< 1.0
Trichloromethane	1	1	MCERTS	-	-	-	-	< 1.0
1,1,1-Trichloroethane	1	1	MCERTS	-	-	-	-	< 1.0
1,2-Dichloroethane	1	1	MCERTS	-	-	-	-	< 1.0
1,1-Dichloropropene	1	1	MCERTS	-	-	-	-	< 1.0
Trans-1,2-dichloroethane	1	1	NONE	-	-	-	-	< 1.0
Benzene	1	1	MCERTS	-	-	-	-	< 1.0

Analytical Report Number: 22-83965  
 Project / Site name: Begbroke  
 Your Order No: PO19941

Lab Sample Number				2423844	2423845	2423846	2423847	2423848
Sample Reference				WS225	WS225	WS221	WS247	WS236
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.60	0.20	0.20	0.20	0.20
Date Sampled				31/08/2022	31/08/2022	31/08/2022	31/08/2022	05/09/2022
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Tetrachloromethane	µg/kg	1	MCERTS	-	-	-	-	< 1.0
1,2-Dichloropropane	µg/kg	1	MCERTS	-	-	-	-	< 1.0
Trichloroethene	µg/kg	1	MCERTS	-	-	-	-	< 1.0
Dibromomethane	µg/kg	1	MCERTS	-	-	-	-	< 1.0
Bromodichloromethane	µg/kg	1	MCERTS	-	-	-	-	< 1.0
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	-	-	-	-	< 1.0
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	-	-	-	-	< 1.0
Toluene	µg/kg	1	MCERTS	-	-	-	-	< 1.0
1,1,2-Trichloroethane	µg/kg	1	MCERTS	-	-	-	-	< 1.0
1,3-Dichloropropane	µg/kg	1	ISO 17025	-	-	-	-	< 1.0
Dibromochloromethane	µg/kg	1	ISO 17025	-	-	-	-	< 1.0
Tetrachloroethene	µg/kg	1	NONE	-	-	-	-	< 1.0
1,2-Dibromoethane	µg/kg	1	ISO 17025	-	-	-	-	< 1.0
Chlorobenzene	µg/kg	1	MCERTS	-	-	-	-	< 1.0
1,1,1,2-Tetrachloroethane	µg/kg	1	MCERTS	-	-	-	-	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	-	-	-	-	< 1.0
p & m-Xylene	µg/kg	1	MCERTS	-	-	-	-	< 1.0
Styrene	µg/kg	1	MCERTS	-	-	-	-	< 1.0
Tribromomethane	µg/kg	1	NONE	-	-	-	-	< 1.0
o-Xylene	µg/kg	1	MCERTS	-	-	-	-	< 1.0
1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	-	-	-	-	< 1.0
Isopropylbenzene	µg/kg	1	MCERTS	-	-	-	-	< 1.0
Bromobenzene	µg/kg	1	MCERTS	-	-	-	-	< 1.0
n-Propylbenzene	µg/kg	1	ISO 17025	-	-	-	-	< 1.0
2-Chlorotoluene	µg/kg	1	MCERTS	-	-	-	-	< 1.0
4-Chlorotoluene	µg/kg	1	MCERTS	-	-	-	-	< 1.0
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	-	-	-	-	< 1.0
tert-Butylbenzene	µg/kg	1	MCERTS	-	-	-	-	< 1.0
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	-	-	-	-	< 1.0
sec-Butylbenzene	µg/kg	1	MCERTS	-	-	-	-	< 1.0
1,3-Dichlorobenzene	µg/kg	1	ISO 17025	-	-	-	-	< 1.0
p-Isopropyltoluene	µg/kg	1	ISO 17025	-	-	-	-	< 1.0
1,2-Dichlorobenzene	µg/kg	1	MCERTS	-	-	-	-	< 1.0
1,4-Dichlorobenzene	µg/kg	1	MCERTS	-	-	-	-	< 1.0
Butylbenzene	µg/kg	1	MCERTS	-	-	-	-	< 1.0
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	-	-	-	-	< 1.0
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	-	-	-	-	< 1.0
Hexachlorobutadiene	µg/kg	1	MCERTS	-	-	-	-	< 1.0
1,2,3-Trichlorobenzene	µg/kg	1	ISO 17025	-	-	-	-	< 1.0

**SVOCs**

Aniline	mg/kg	0.1	NONE	-	-	-	-	< 0.1
Phenol	mg/kg	0.2	ISO 17025	-	-	-	-	< 0.2
2-Chlorophenol	mg/kg	0.1	MCERTS	-	-	-	-	< 0.1
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	-	-	-	-	< 0.2
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	-	-	-	-	< 0.2
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	-	-	-	-	< 0.1
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	-	-	-	-	< 0.2
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	-	-	-	-	< 0.1
2-Methylphenol	mg/kg	0.3	MCERTS	-	-	-	-	< 0.3
Hexachloroethane	mg/kg	0.05	MCERTS	-	-	-	-	< 0.05
Nitrobenzene	mg/kg	0.3	MCERTS	-	-	-	-	< 0.3
4-Methylphenol	mg/kg	0.2	NONE	-	-	-	-	< 0.2



Analytical Report Number: 22-83965  
 Project / Site name: Begbroke  
 Your Order No: PO19941

Lab Sample Number				2423844	2423845	2423846	2423847	2423848
Sample Reference				WS225	WS225	WS221	WS247	WS236
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.60	0.20	0.20	0.20	0.20
Date Sampled				31/08/2022	31/08/2022	31/08/2022	31/08/2022	05/09/2022
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Isophorone	mg/kg	0.2	MCERTS	-	-	-	-	< 0.2
2-Nitrophenol	mg/kg	0.3	MCERTS	-	-	-	-	< 0.3
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	-	-	-	-	< 0.3
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	-	-	-	-	< 0.3
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	-	-	-	-	< 0.3
Naphthalene	mg/kg	0.05	MCERTS	-	-	-	-	< 0.05
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	-	-	-	-	< 0.3
4-Chloroaniline	mg/kg	0.1	NONE	-	-	-	-	< 0.1
Hexachlorobutadiene	mg/kg	0.1	MCERTS	-	-	-	-	< 0.1
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	-	-	-	-	< 0.1
2,4,6-Trichlorophenol	mg/kg	0.1	MCERTS	-	-	-	-	< 0.1
2,4,5-Trichlorophenol	mg/kg	0.2	MCERTS	-	-	-	-	< 0.2
2-Methylnaphthalene	mg/kg	0.1	NONE	-	-	-	-	< 0.1
2-Chloronaphthalene	mg/kg	0.1	MCERTS	-	-	-	-	< 0.1
Dimethylphthalate	mg/kg	0.1	MCERTS	-	-	-	-	< 0.1
2,6-Dinitrotoluene	mg/kg	0.1	MCERTS	-	-	-	-	< 0.1
Acenaphthylene	mg/kg	0.05	MCERTS	-	-	-	-	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	-	-	-	-	< 0.05
2,4-Dinitrotoluene	mg/kg	0.2	MCERTS	-	-	-	-	< 0.2
Dibenzofuran	mg/kg	0.2	MCERTS	-	-	-	-	< 0.2
4-Chlorophenyl phenyl ether	mg/kg	0.3	ISO 17025	-	-	-	-	< 0.3
Diethyl phthalate	mg/kg	0.2	MCERTS	-	-	-	-	< 0.2
4-Nitroaniline	mg/kg	0.2	MCERTS	-	-	-	-	< 0.2
Fluorene	mg/kg	0.05	MCERTS	-	-	-	-	< 0.05
Azobenzene	mg/kg	0.3	MCERTS	-	-	-	-	< 0.3
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	-	-	-	-	< 0.2
Hexachlorobenzene	mg/kg	0.3	MCERTS	-	-	-	-	< 0.3
Phenanthrene	mg/kg	0.05	MCERTS	-	-	-	-	0.22
Anthracene	mg/kg	0.05	MCERTS	-	-	-	-	< 0.05
Carbazole	mg/kg	0.3	MCERTS	-	-	-	-	< 0.3
Dibutyl phthalate	mg/kg	0.2	MCERTS	-	-	-	-	< 0.2
Anthraquinone	mg/kg	0.3	MCERTS	-	-	-	-	< 0.3
Fluoranthene	mg/kg	0.05	MCERTS	-	-	-	-	0.34
Pyrene	mg/kg	0.05	MCERTS	-	-	-	-	0.39
Butyl benzyl phthalate	mg/kg	0.3	ISO 17025	-	-	-	-	< 0.3
Benzo(a)anthracene	mg/kg	0.05	MCERTS	-	-	-	-	0.24
Chrysene	mg/kg	0.05	MCERTS	-	-	-	-	0.42
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	-	-	-	-	0.52
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	-	-	-	-	0.21
Benzo(a)pyrene	mg/kg	0.05	MCERTS	-	-	-	-	0.41
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	-	-	-	-	0.32
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	-	-	-	-	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	-	-	-	-	0.49

U/S = Unsuitable Sample I/S = Insufficient Sample

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Lab Sample Number	2423849	2423850	2423851	2423852	2423853			
Sample Reference	WS228	WS235	WS242	TP206	TP217			
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied			
Depth (m)	0.20	0.20	0.20	0.20	0.40			
Date Sampled	05/09/2022	05/09/2022	05/09/2022	08/09/2022	08/09/2022			
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied			
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	5.1	5.7	8.2	7.1	2.5
Total mass of sample received	kg	0.001	NONE	0.9	0.9	0.9	0.9	0.9

Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	SPU	SPU	SPU	SPU	SPU

#### General Inorganics

pH - Automated	pH Units	N/A	MCERTS	7.5	7.8	7.7	7.8	8.3
Free Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Water Soluble SO <sub>4</sub> 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.0044	0.0022	0.024	0.0038	0.0029
Fraction Organic Carbon (FOC) Automated	N/A	0.001	MCERTS	0.0073	0.011	0.014	0.016	0.0037

#### Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
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#### Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Chrysene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05

#### Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80
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#### Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	48	45	24	59	78
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	1.3	1.2	1.1	1.5	1.5
Boron (water soluble)	mg/kg	0.2	MCERTS	0.4	1	0.6	0.4	0.2
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	1.8	MCERTS	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8
Chromium (III)	mg/kg	1	NONE	49	45	34	55	55
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	50	46	35	56	56
Copper (aqua regia extractable)	mg/kg	1	MCERTS	18	14	18	18	12
Lead (aqua regia extractable)	mg/kg	1	MCERTS	20	18	26	26	15
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	35	28	34	34	30
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	91	80	56	100	110
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	77	96	89	99	80