APPENDIX E - GEOTECHNICAL TEST RESULTS

TEST CERTIFICATE

Liquid and Plastic Limits

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

UKAS TESTING 4041

Environmental Science

Tested in Accordance with: BS 1377-2: 1990: Clause 4.4 and 5

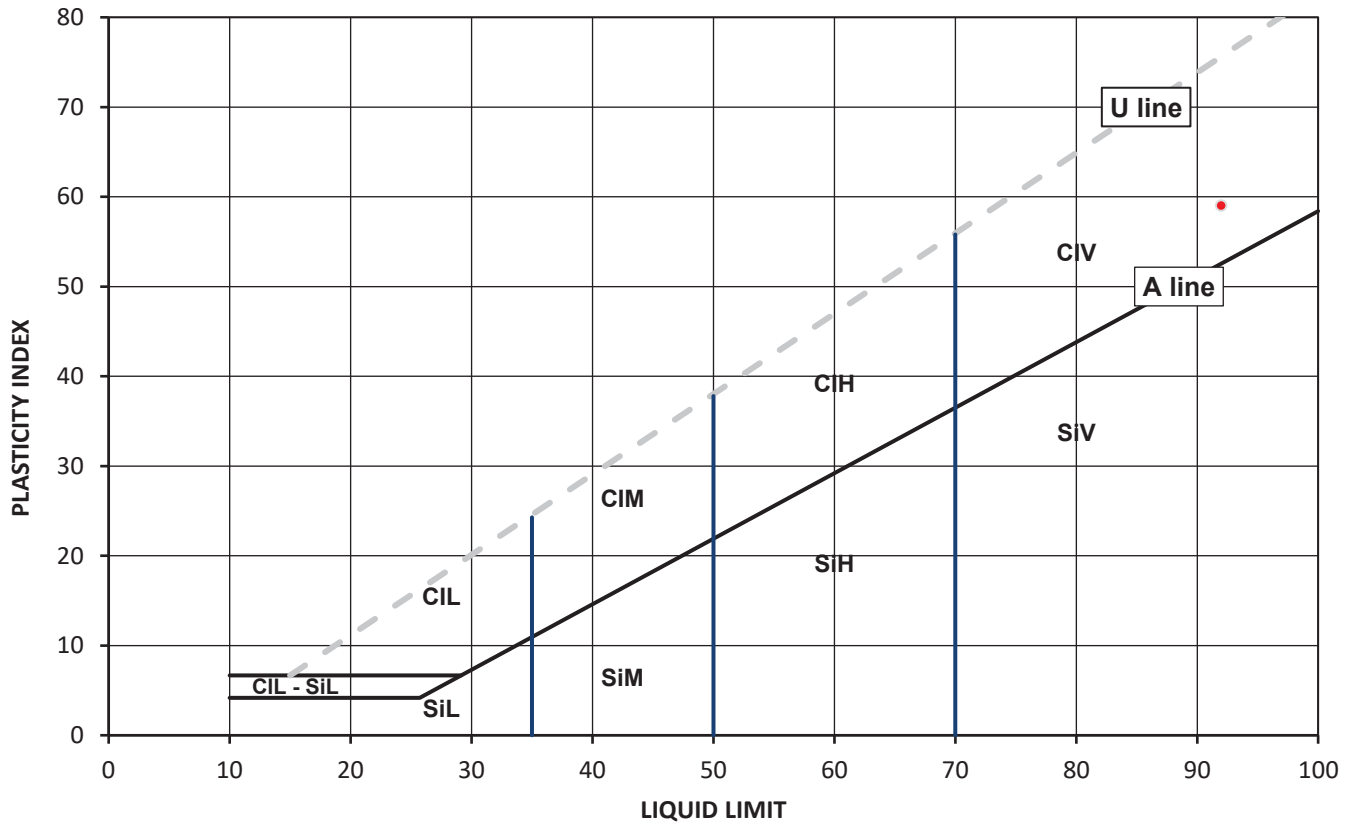
Client:	Discovery CE	Client Reference:	20008J
Client Address:	The Granary, Broadwell House Farm, Broadwell, Rugby, Warwickshire, CV23 8HF	Job Number:	21-62836
		Date Sampled:	03/03/2021
		Date Received:	12/03/2021
Contact:	Michael Forrester	Date Tested:	29/03/2021
Site Address:	Handy Cross, High Wycombe	Sampled By:	i2 - MF

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

Test Results:

Laboratory Reference:	1804283	Depth Top [m]:	0.50
Hole No.:	BH101	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	D
Soil Description:	Brown slightly gravelly CLAY with flintstone		
Sample Preparation:	Tested after washing to remove >425um		

As Received Moisture Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	% Passing 425µm BS Test Sieve
32	92	33	59	67



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 ClHO)

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

Remarks:

Signed:

Szczepan Bielatowicz
PL Deputy Head of Geotechnical Section
for and on behalf of i2 Analytical Ltd

Date Reported: 20/04/2021

GF 232.10

TEST CERTIFICATE

Liquid and Plastic Limits

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Environmental Science

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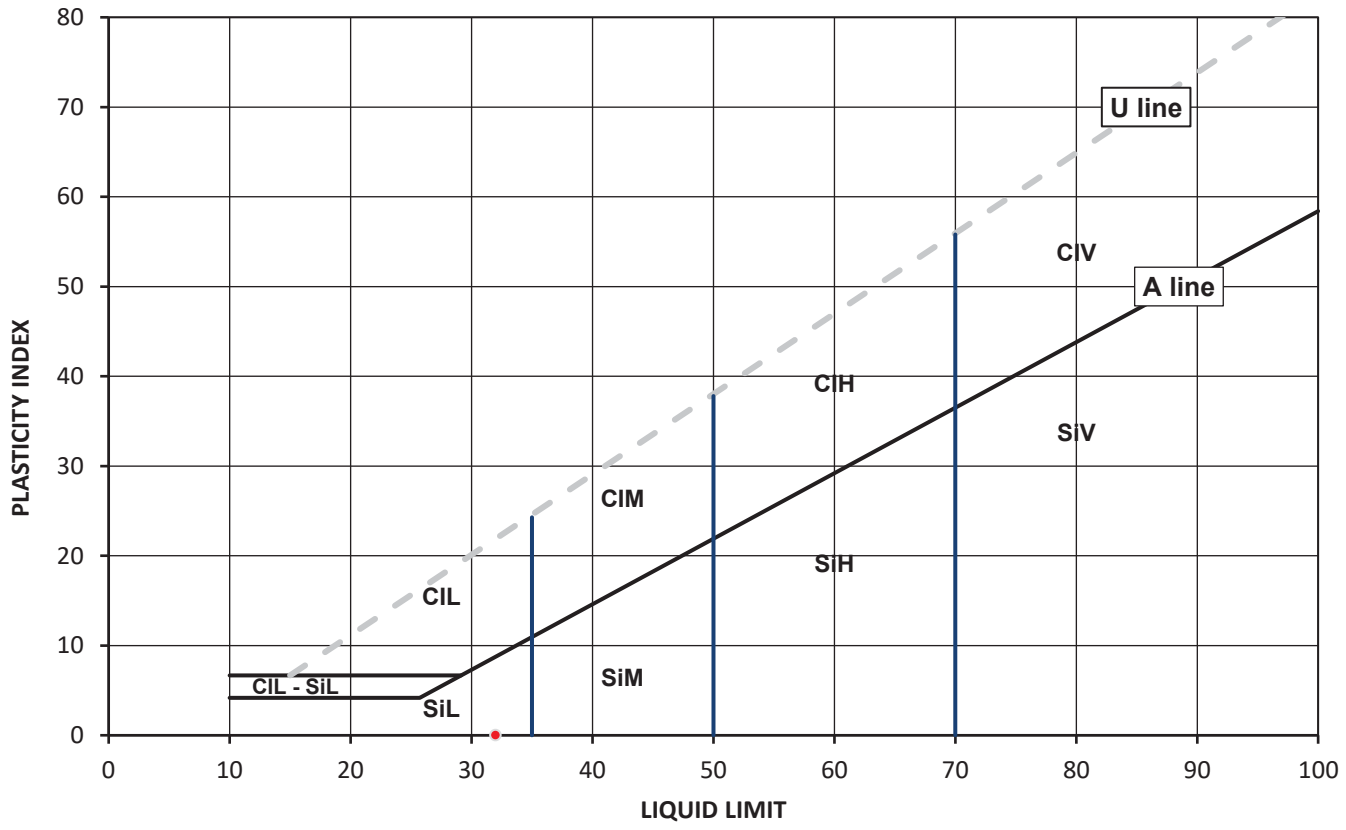
		Date Sampled:	03/03/2021
		Date Received:	12/03/2021
Contact:	Michael Forrester	Date Tested:	29/03/2021
Site Address:	Handy Cross, High Wycombe	Sampled By:	i2 - MF

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

Test Results:

Laboratory Reference:	1804284	Depth Top [m]:	3.50
Hole No.:	BH101	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	D
Soil Description:	Cream colour slightly clayey CHALK		
Sample Preparation:	Tested in natural condition		

As Received Moisture Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	% Passing 425µm BS Test Sieve
29	32	NP	NP	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 ClHO)

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

Remarks:

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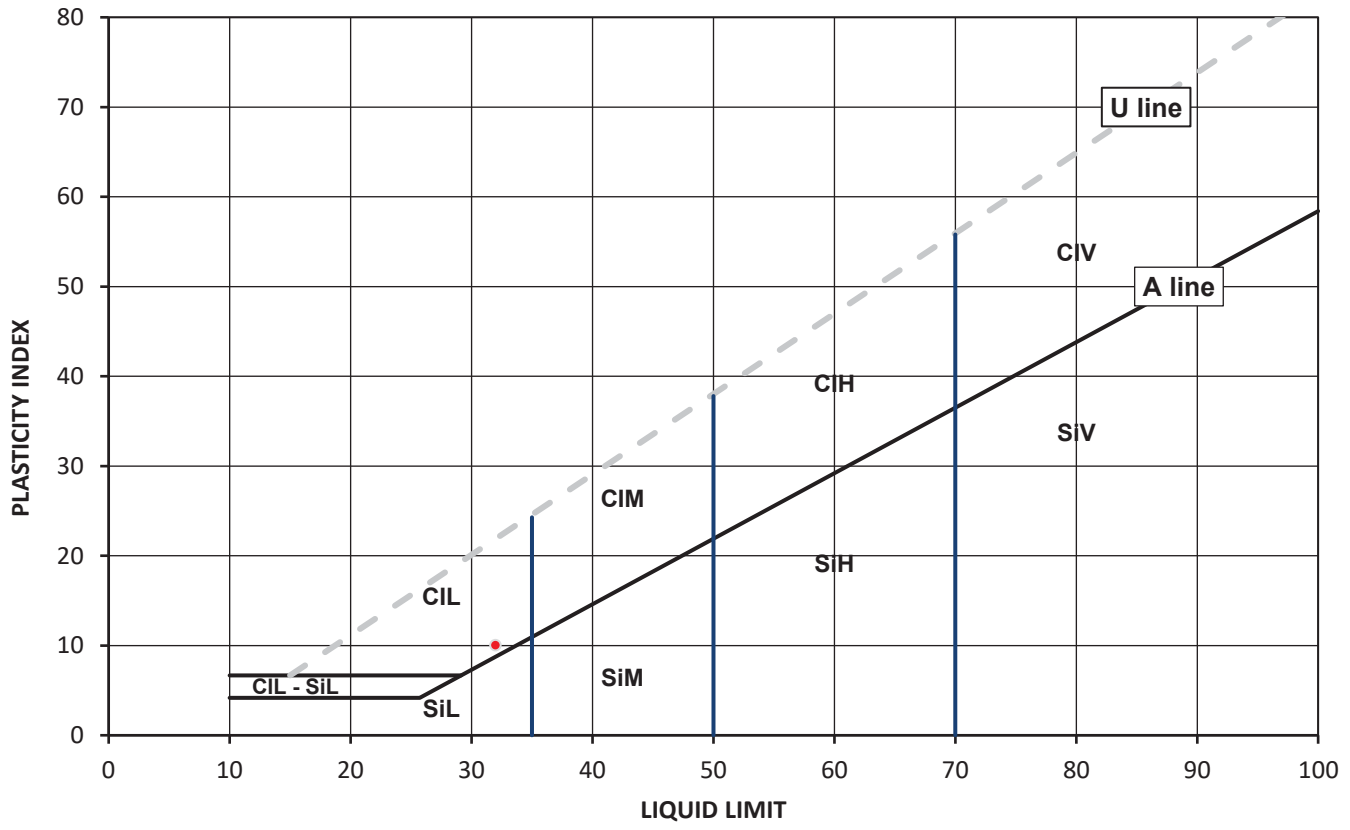
		Date Received:	12/03/2021
Contact:	Michael Forrester	Date Tested:	29/03/2021
Site Address:	Handy Cross, High Wycombe	Sampled By:	i2 - MF

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

Test Results:

Laboratory Reference:	1804285	Depth Top [m]:	5.50
Hole No.:	BH102	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	D
Soil Description:	Cream colour slightly gravelly CHALK with fragments of flintstone		
Sample Preparation:	Tested after washing to remove >425um		

As Received Moisture Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	% Passing 425µm BS Test Sieve
25	32	22	10	91



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 ClHO)

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

Remarks:

Signed:

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Date Reported: 20/04/2021

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		Date Sampled:	03/03/2021
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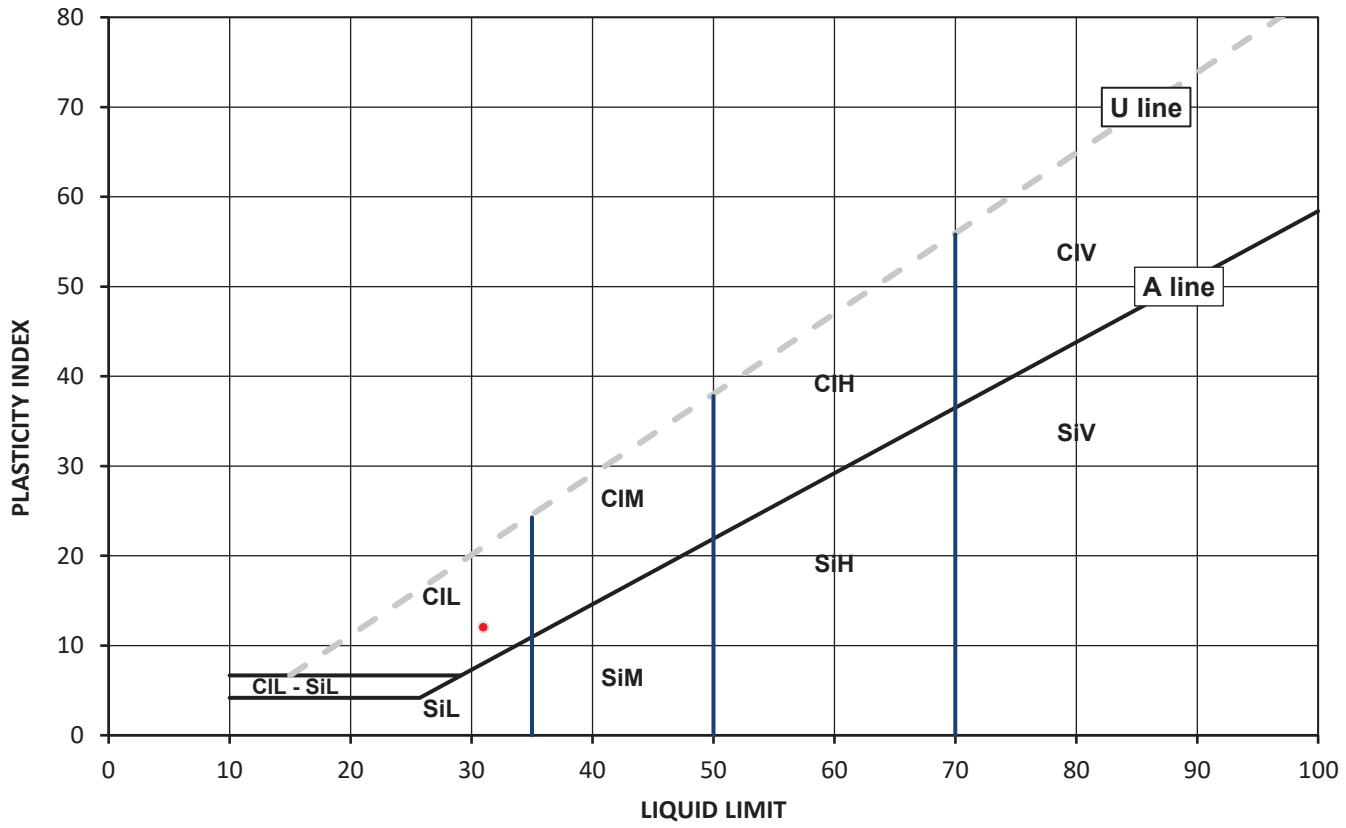
Contact:	Michael Forrester	Date Tested:	29/03/2021
Site Address:	Handy Cross, High Wycombe	Sampled By:	i2 - MF

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

Test Results:

Laboratory Reference:	1804286	Depth Top [m]:	8.50
Hole No.:	BH102	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	D
Soil Description:	Cream colour slightly gravelly CHALK with fragments of flintstone		
Sample Preparation:	Tested after washing to remove >425um		

As Received Moisture Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	% Passing 425µm BS Test Sieve
21	31	19	12	90



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 ClHO)

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

Remarks:

Signed:

Szczepan Bielatowicz
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Date Reported: 20/04/2021

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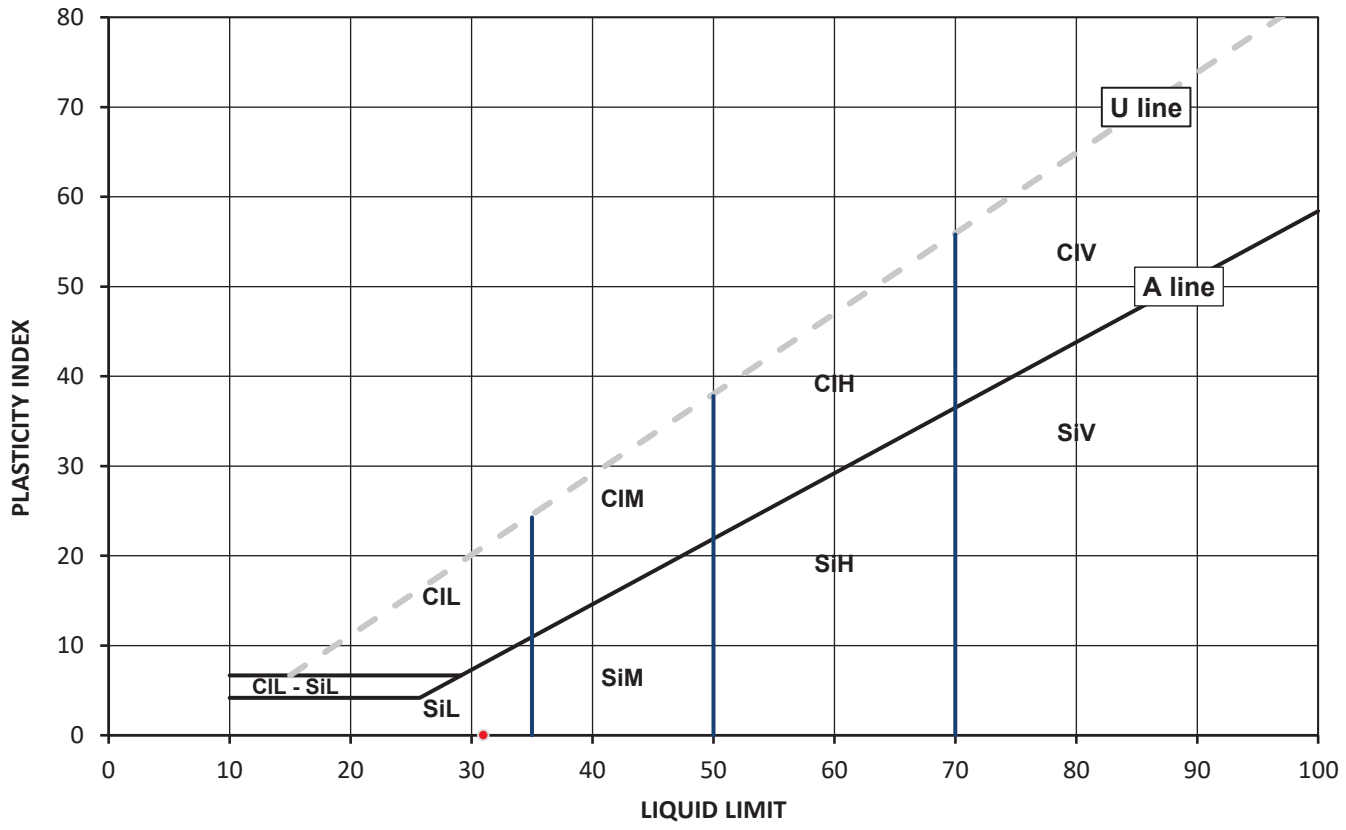
		Date Received:	12/03/2021
Contact:	Michael Forrester	Date Tested:	29/03/2021
Site Address:	Handy Cross, High Wycombe	Sampled By:	i2 - MF

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

Test Results:

Laboratory Reference:	1804287	Depth Top [m]:	2.50
Hole No.:	BH105	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	D
Soil Description:	Cream colour slightly gravelly slightly clayey CHALK with fragments of flintstone		
Sample Preparation:	Tested after washing to remove >425um		

As Received Moisture Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	% Passing 425µm BS Test Sieve
23	31	NP	NP	95



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 ClHO)

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

Remarks:

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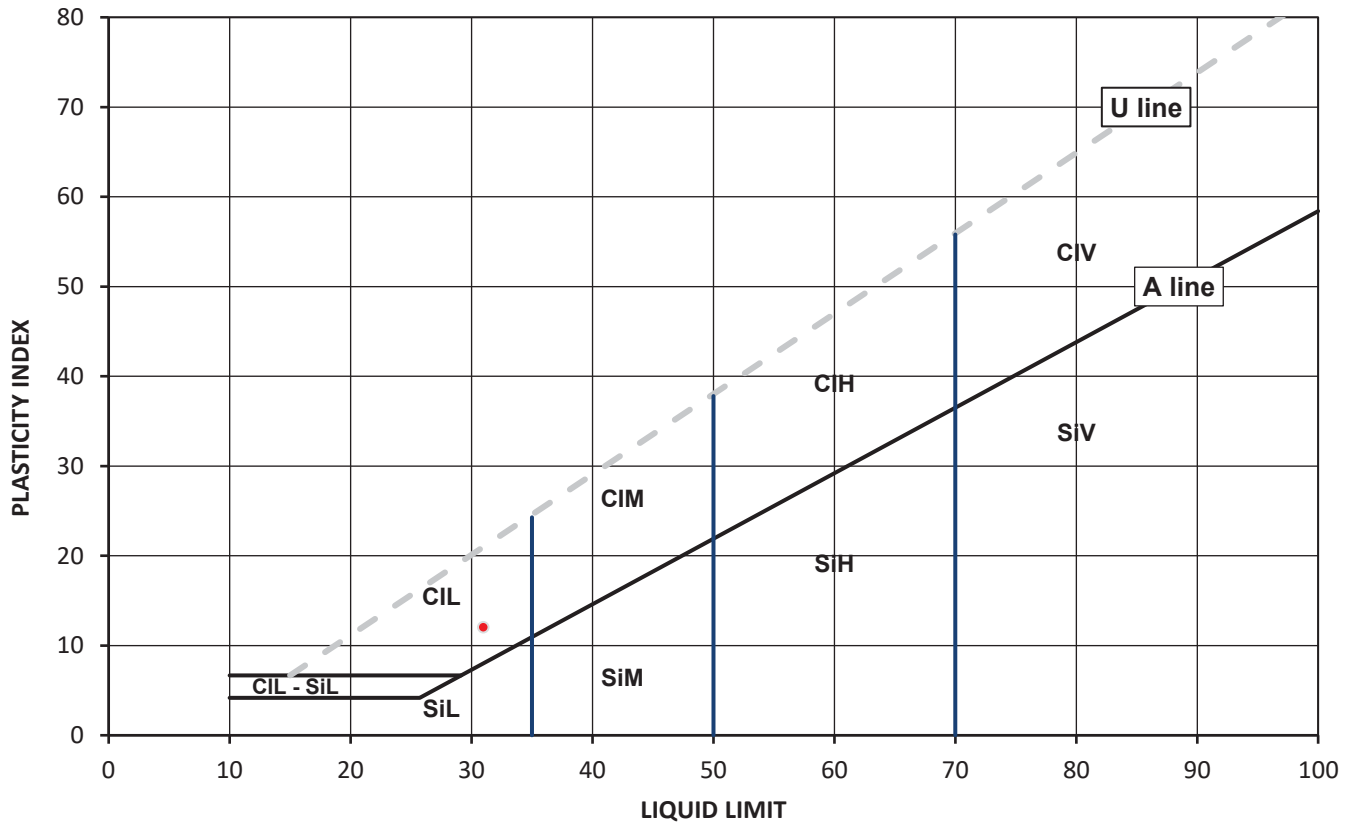
		Date Received:	12/03/2021
Contact:	Michael Forrester	Date Tested:	29/03/2021
Site Address:	Handy Cross, High Wycombe	Sampled By:	i2 - MF

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

Test Results:

Laboratory Reference:	1804288	Depth Top [m]:	5.50
Hole No.:	BH105	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	D
Soil Description:	Cream colour slightly gravelly CHALK with fragments of flintstone		
Sample Preparation:	Tested after washing to remove >425um		

As Received Moisture Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	% Passing 425µm BS Test Sieve
25	31	19	12	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 ClHO)

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

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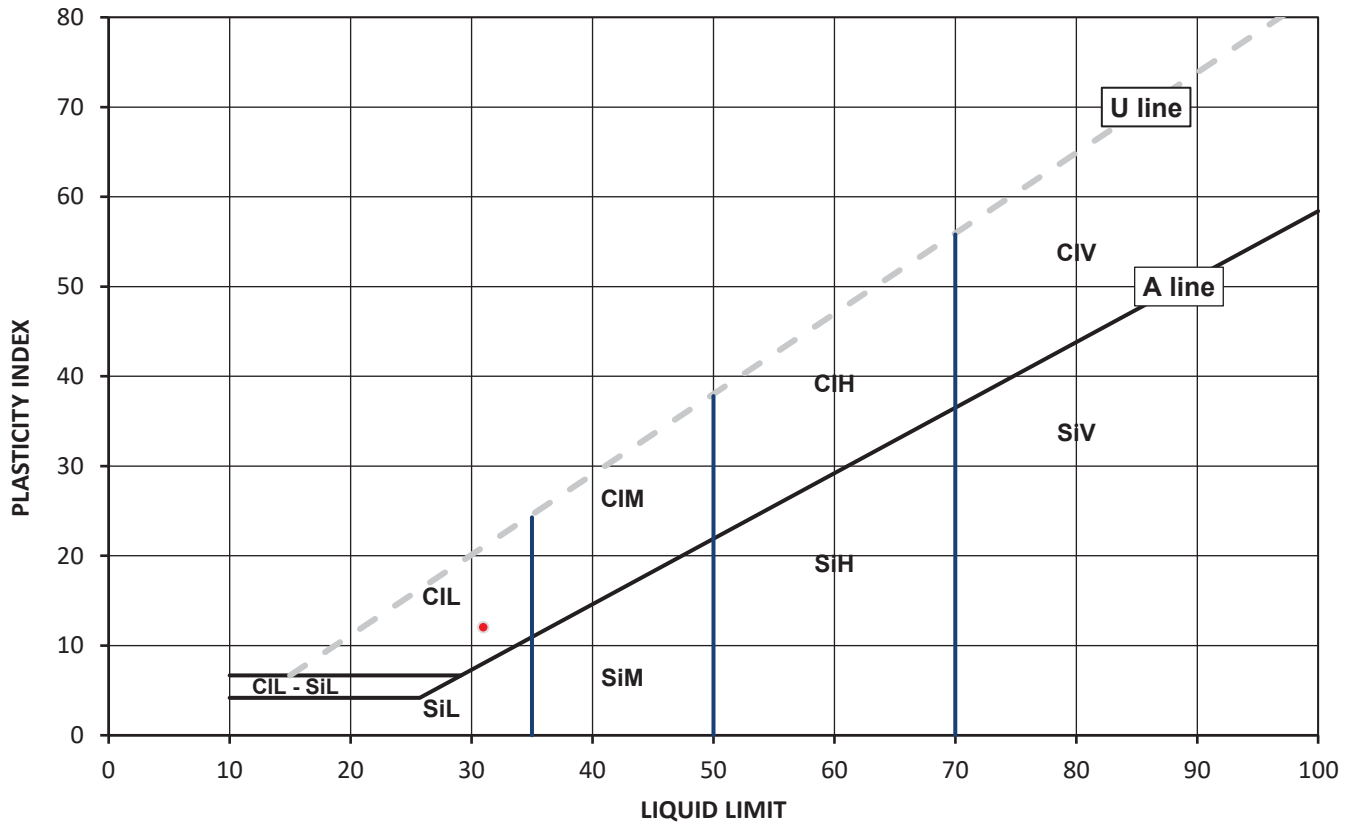
Contact:	Michael Forrester	Date Tested:	29/03/2021
Site Address:	Handy Cross, High Wycombe	Sampled By:	i2 - MF

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

Test Results:

Laboratory Reference:	1804289	Depth Top [m]:	9.50
Hole No.:	BH105	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	D
Soil Description:	Cream colour slightly gravelly CHALK with fragments of flintstone		
Sample Preparation:	Tested after washing to remove >425um		

As Received Moisture Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	% Passing 425µm BS Test Sieve
21	31	19	12	88



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 ClHO)

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

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Date Reported: 20/04/2021

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Environmental Science

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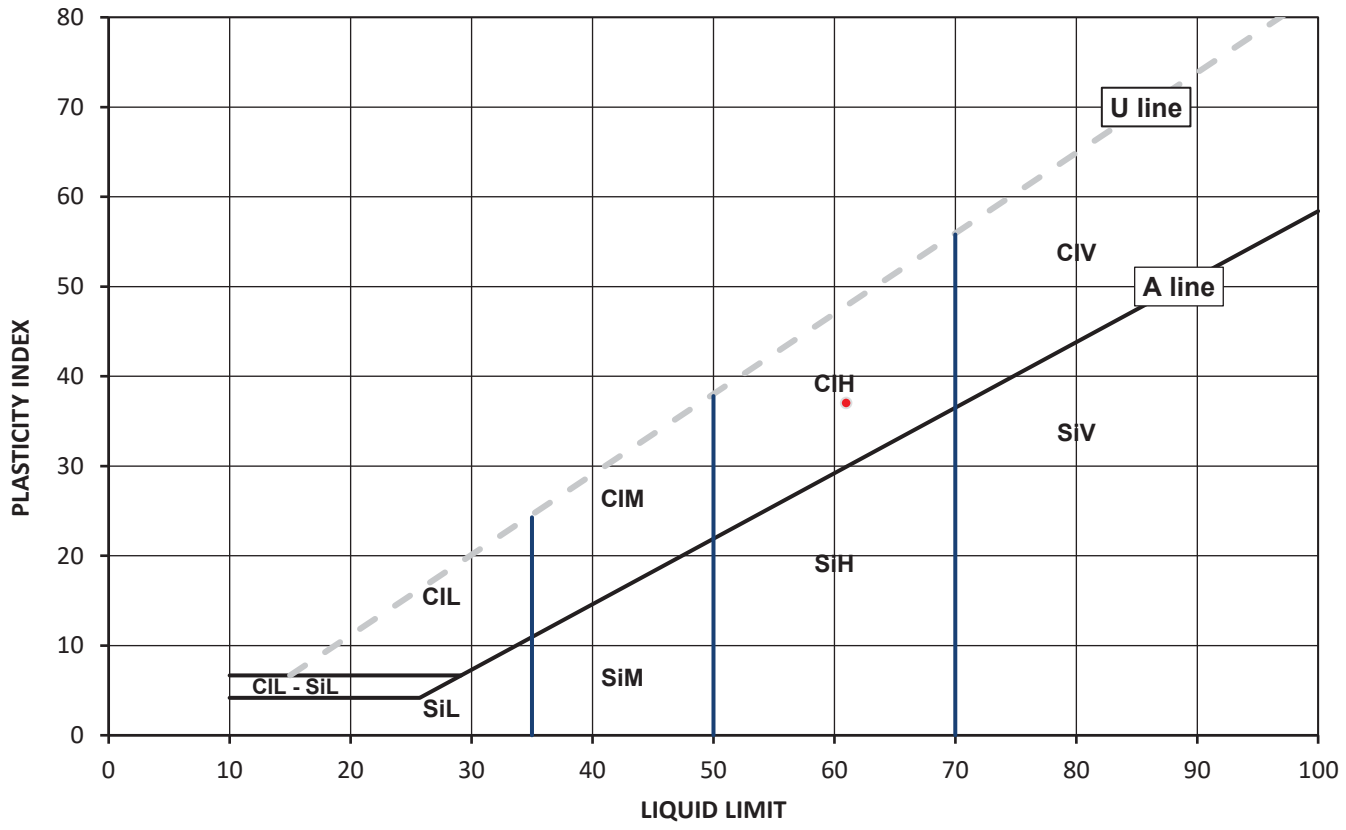
Contact:	Michael Forrester	Date Tested:	29/03/2021
Site Address:	Handy Cross, High Wycombe	Sampled By:	i2 - MF

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

Test Results:

Laboratory Reference:	1804292	Depth Top [m]:	1.00
Hole No.:	TP302	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	B
Soil Description:	Brown slightly gravelly CLAY with fragments of chalk		
Sample Preparation:	Tested after washing to remove >425um		

As Received Moisture Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	% Passing 425µm BS Test Sieve
26	61	24	37	71



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 ClHO)

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

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UKAS TESTING 4041

Environmental Science

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Client:	Discovery CE	Client Reference:	20008J
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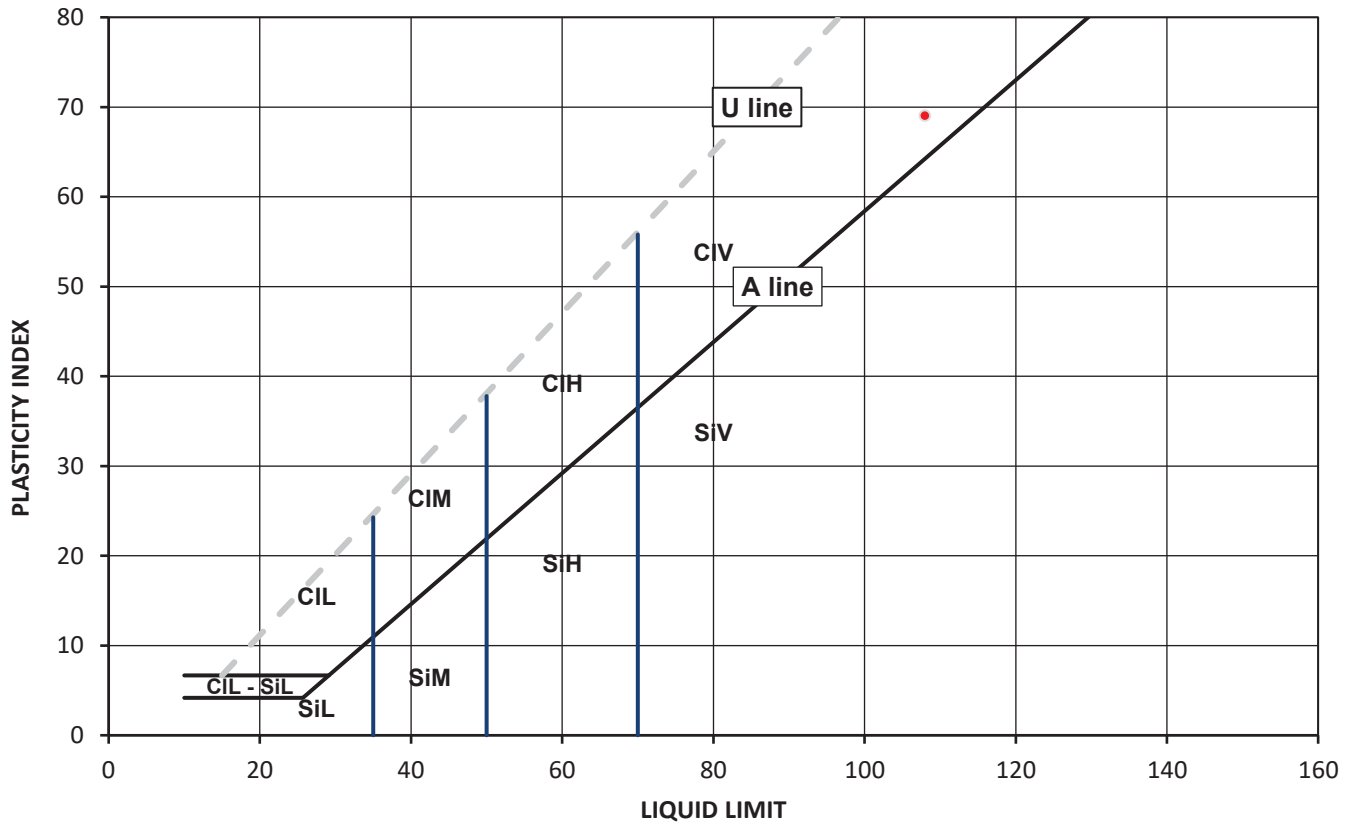
		Date Sampled:	02/03/2021
		Date Received:	12/03/2021
Contact:	Michael Forrester	Date Tested:	29/03/2021
Site Address:	Handy Cross, High Wycombe	Sampled By:	i2 - MF

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

Test Results:

Laboratory Reference:	1804294	Depth Top [m]:	0.50
Hole No.:	TP308	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	D
Soil Description:	Brown to white gravelly CLAY with fragments of flintstone		
Sample Preparation:	Tested after washing to remove >425um		

As Received Moisture Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	% Passing 425µm BS Test Sieve
31	108	39	69	62



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

Remarks:

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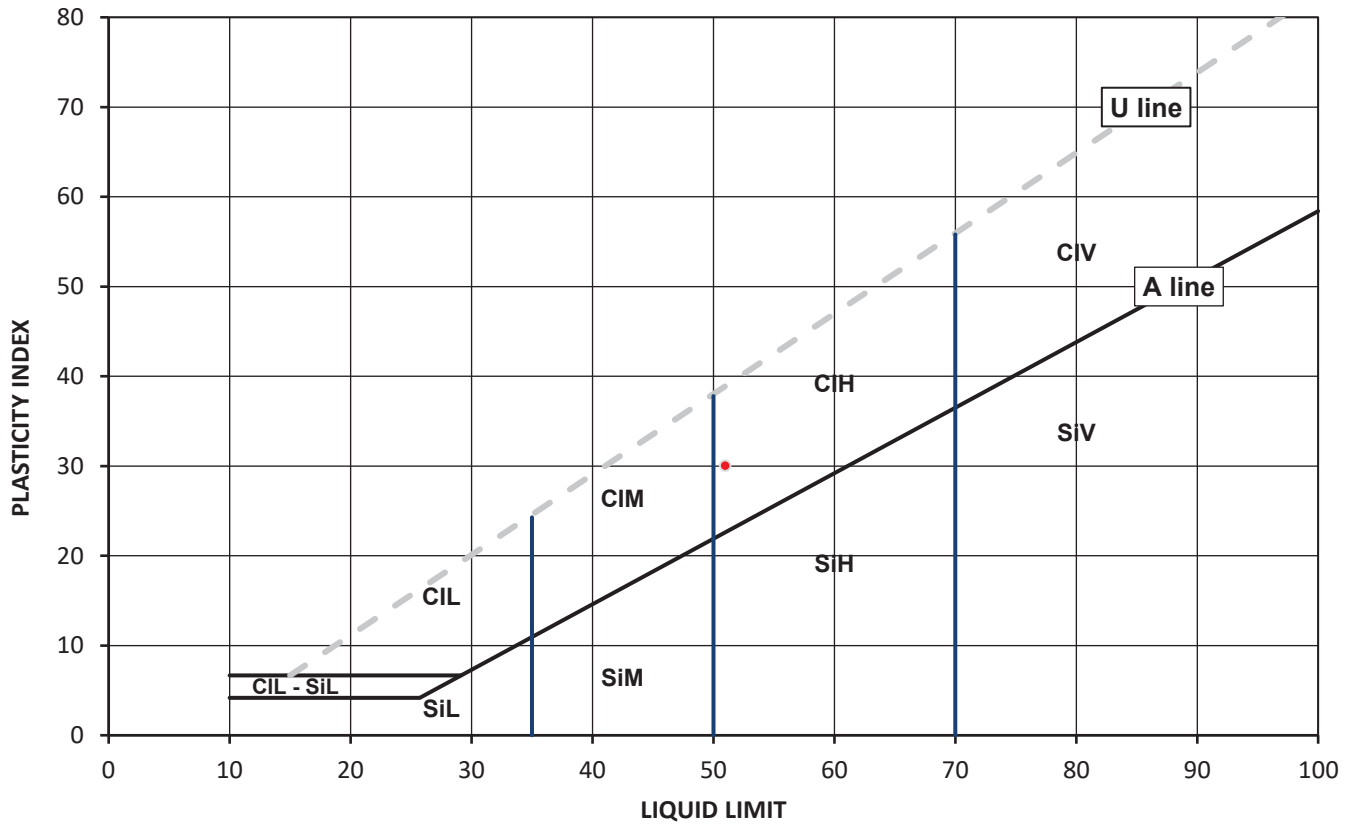
		Date Received:	12/03/2021
Contact:	Michael Forrester	Date Tested:	29/03/2021
Site Address:	Handy Cross, High Wycombe	Sampled By:	i2 - MF

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

Test Results:

Laboratory Reference:	1804299	Depth Top [m]:	0.90
Hole No.:	TP312	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	D
Soil Description:	Cream colour gravelly clayey CHALK with fragments of flintstone		
Sample Preparation:	Tested after washing to remove >425um		

As Received Moisture Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	% Passing 425µm BS Test Sieve
21	51	21	30	65



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 ClHO)

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

Remarks:

Signed:

Szczepan Bielatowicz
PL Deputy Head of Geotechnical Section
for and on behalf of i2 Analytical Ltd

Date Reported: 20/04/2021

GF 232.10

SUMMARY REPORT

Summary of Classification Test Results

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

UKAS TESTING 4041

Environmental Science

Tested in Accordance with:

Moisture Content by BS 1377-2: 1990: Clause 3.2; Water Content by BS EN 17892-1: 2014; 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: Discovery CE

Client Address: The Granary, Broadwell House Farm, Broadwell, Rugby, Warwickshire, CV23 8HF

Contact: Michael Forrester

Site Address: Handy Cross, High Wycombe

Client Reference: 20008J
Job Number: 21-62836
Date Sampled: 02/03 - 03/03/2021
Date Received: 12/03/2021
Date Tested: 29/03/2021
Sampled By: i2 - MF

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

Test results

Laboratory Reference	Hole No.	Sample				Description	Remarks	Moisture Content [W]	Water Content [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	%		
1804283	BH101	Not Given	0.50	Not Given	D	Brown slightly gravelly CLAY with flintstone	Atterberg 1 Point	32		67	92	33	59						
1804284	BH101	Not Given	3.50	Not Given	D	Cream colour slightly clayey CHALK	Atterberg 1 Point	29		100	32	NP							
1804285	BH102	Not Given	5.50	Not Given	D	Cream colour slightly gravelly CHALK with fragments of flintstone	Atterberg 1 Point	25		91	32	22	10						
1804286	BH102	Not Given	8.50	Not Given	D	Cream colour slightly gravelly CHALK with fragments of flintstone	Atterberg 1 Point	21		90	31	19	12						
1804287	BH105	Not Given	2.50	Not Given	D	Cream colour slightly gravelly slightly clayey CHALK with fragments of flintstone	Atterberg 1 Point	23		95	31	NP							
1804288	BH105	Not Given	5.50	Not Given	D	Cream colour slightly gravelly CHALK with fragments of flintstone	Atterberg 1 Point	25		99	31	19	12						
1804289	BH105	Not Given	9.50	Not Given	D	Cream colour slightly gravelly CHALK with fragments of flintstone	Atterberg 1 Point	21		88	31	19	12						
1804301	TP214B	Not Given	1.00	Not Given	D	White CHALK										2.69			
1804292	TP302	Not Given	1.00	Not Given	B	Brown slightly gravelly CLAY with fragments of chalk	Atterberg 1 Point	26		71	61	24	37						
1804294	TP308	Not Given	0.50	Not Given	D	Brown to white gravelly CLAY with fragments of flintstone	Atterberg 1 Point	31		62	108	39	69						

Note: # Non accredited; NP - Non plastic

Comments:

Signed:

Szczepan Bielatowicz
PL Deputy Head of Geotechnical Section
for and on behalf of i2 Analytical Ltd

Date Reported: 20/04/2021

SUMMARY REPORT

Summary of Classification Test Results

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

UKAS TESTING 4041

Tested in Accordance with:

Moisture Content by BS 1377-2: 1990: Clause 3.2; Water Content by BS EN 17892-1: 2014; 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: Discovery CE

Client Address: The Granary, Broadwell House Farm, Broadwell, Rugby, Warwickshire, CV23 8HF

Contact: Michael Forrester

Site Address: Handy Cross, High Wycombe

Client Reference: 20008J
Job Number: 21-62836
Date Sampled: 02/03 - 03/03/2021
Date Received: 12/03/2021
Date Tested:
Sampled By: i2 - MF

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

Test results

Laboratory Reference	Hole No.	Sample				Description	Remarks	Moisture Content [W]	Water Content [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	%		
1804295	TP308	Not Given	0.70	Not Given	D	Cream colour CHALK										2.68			
1804299	TP312	Not Given	0.90	Not Given	D	Cream colour gravelly clayey CHALK with fragments of flintstone	Atterberg 1 Point	21		65	51	21	30						

Note: # Non accredited; NP - Non plastic

Comments:

Signed:

Szczepan Bielatowicz
PL Deputy Head of Geotechnical Section
for and on behalf of i2 Analytical Ltd

Date Reported: 20/04/2021

TEST CERTIFICATE

Particle Size Distribution

Tested in Accordance with: BS 1377-2: 1990

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

UKAS TESTING 4041

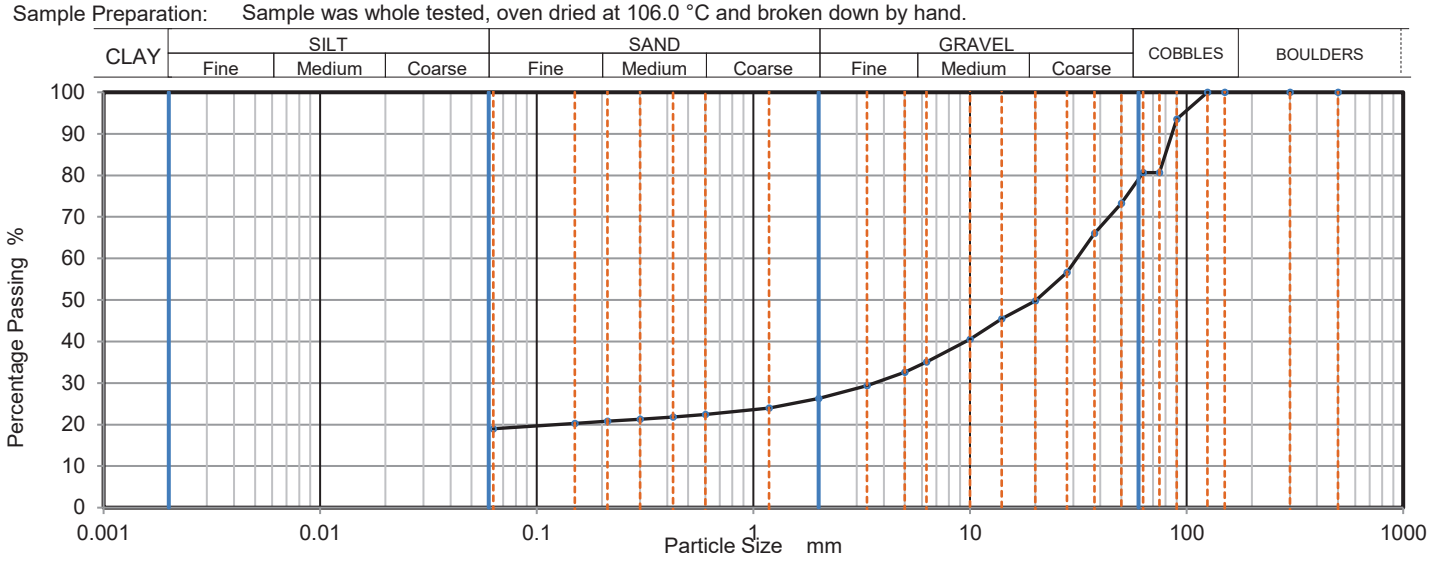
Environmental Science

Client:	Discovery CE	Client Reference:	20008J
Client Address:	The Granary, Broadwell House Farm, Broadwell, Rugby, Warwickshire, CV23 8HF	Job Number:	21-62836
		Date Sampled:	03/03/2021
		Date Received:	12/03/2021
Contact:	Michael Forrester	Date Tested:	30/03/2021
Site Address:	Handy Cross, High Wycombe	Sampled By:	i2 - MF

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

Test Results:

Laboratory Reference:	1804290	Depth Top [m]:	2.00
Hole No.:	TP302	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	White CHALK		
Sample Preparation:	Sample was whole tested, oven dried at 106.0 °C and broken down by hand.		



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
500	100		
300	100		
150	100		
125	100		
90	94		
75	81		
63	81		
50	73		
37.5	66		
28	57		
20	50		
14	46		
10	41		
6.3	35		
5	33		
3.35	29		
2	26		
1.18	24		
0.6	22		
0.425	22		
0.3	21		
0.212	21		
0.15	20		
0.063	19		

Sample Proportions	% dry mass
Very coarse	19
Gravel	54
Sand	7
Fines <0.063mm	19

Grading Analysis		
D100	mm	125
D60	mm	31.1
D30	mm	3.62
D10	mm	
Uniformity Coefficient		> 490
Curvature Coefficient		

Uniformity Coefficient and Coefficient of Curvature calculated in accordance with BS EN ISO 14688-2: 2004 + A1: 2013

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

Remarks: The material submitted - fails to meet the minimum mass requirements as stated in BS1377 Part 2 Table 3

Signed:

Szczepan Bielatowicz
PL Deputy Head of Geotechnical Section
for and on behalf of i2 Analytical Ltd

Date Reported: 20/04/2021

GF 100.20

TEST CERTIFICATE

Particle Size Distribution

Tested in Accordance with: BS 1377-2: 1990

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

UKAS TESTING 4041

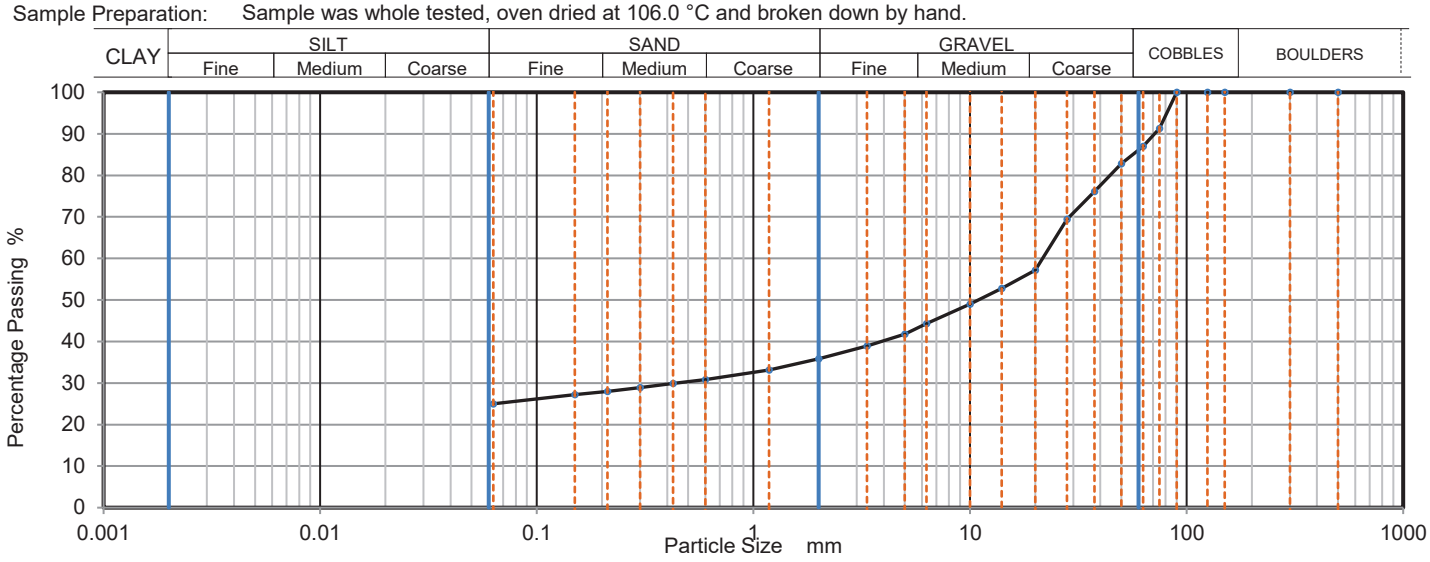
Environmental Science

Client:	Discovery CE	Client Reference:	20008J
Client Address:	The Granary, Broadwell House Farm, Broadwell, Rugby, Warwickshire, CV23 8HF	Job Number:	21-62836
		Date Sampled:	03/03/2021
		Date Received:	12/03/2021
Contact:	Michael Forrester	Date Tested:	30/03/2021
Site Address:	Handy Cross, High Wycombe	Sampled By:	i2 - MF

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

Test Results:

Laboratory Reference:	1804291	Depth Top [m]:	2.00
Hole No.:	TP304	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	White CHALK		
Sample Preparation:	Sample was whole tested, oven dried at 106.0 °C and broken down by hand.		



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
500	100		
300	100		
150	100		
125	100		
90	100		
75	91		
63	87		
50	83		
37.5	76		
28	69		
20	57		
14	53		
10	49		
6.3	44		
5	42		
3.35	39		
2	36		
1.18	33		
0.6	31		
0.425	30		
0.3	29		
0.212	28		
0.15	27		
0.063	26		

Sample Proportions	% dry mass
Very coarse	13
Gravel	51
Sand	10
Fines <0.063mm	26

Grading Analysis		
D100	mm	90
D60	mm	21.6
D30	mm	0.448
D10	mm	
Uniformity Coefficient		> 340
Curvature Coefficient		

Uniformity Coefficient and Coefficient of Curvature calculated in accordance with BS EN ISO 14688-2: 2004 + A1: 2013

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

Remarks: The material submitted - fails to meet the minimum mass requirements as stated in BS1377 Part 2 Table 3

Signed:

Szczepan Bielatowicz
PL Deputy Head of Geotechnical Section
for and on behalf of i2 Analytical Ltd

Date Reported: 20/04/2021

GF 100.20

TEST CERTIFICATE

Particle Size Distribution

Tested in Accordance with: BS 1377-2: 1990

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

UKAS TESTING 4041

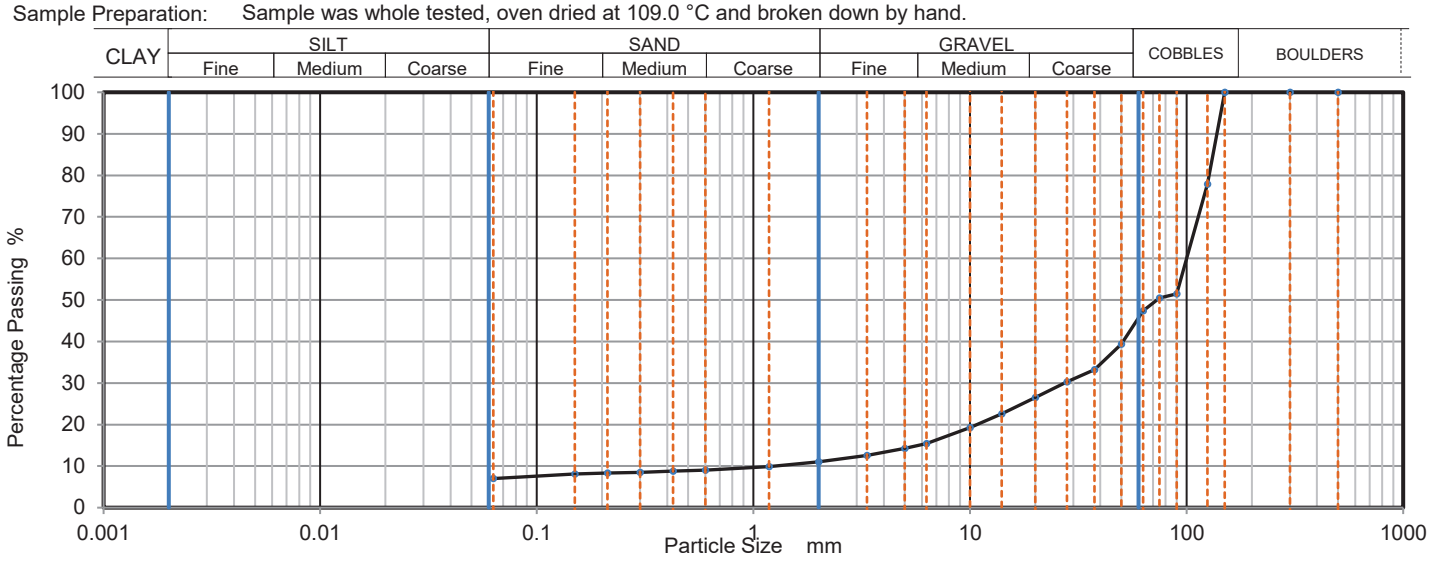
Environmental Science

Client:	Discovery CE	Client Reference:	20008J
Client Address:	The Granary, Broadwell House Farm, Broadwell, Rugby, Warwickshire, CV23 8HF	Job Number:	21-62836
		Date Sampled:	03/03/2021
		Date Received:	12/03/2021
Contact:	Michael Forrester	Date Tested:	30/03/2021
Site Address:	Handy Cross, High Wycombe	Sampled By:	i2 - MF

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

Test Results:

Laboratory Reference:	1804293	Depth Top [m]:	1.50
Hole No.:	TP306	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	White CHALK		
Sample Preparation:	Sample was whole tested, oven dried at 109.0 °C and broken down by hand.		



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
500	100		
300	100		
150	100		
125	78		
90	52		
75	51		
63	47		
50	39		
37.5	33		
28	30		
20	27		
14	23		
10	19		
6.3	15		
5	14		
3.35	13		
2	11		
1.18	10		
0.6	9		
0.425	9		
0.3	9		
0.212	8		
0.15	8		
0.063	8		

Sample Proportions	% dry mass
Very coarse	53
Gravel	36
Sand	3
Fines <0.063mm	8

Grading Analysis		
D100	mm	300
D60	mm	100
D30	mm	27.4
D10	mm	1.24
Uniformity Coefficient		81
Curvature Coefficient		6

Uniformity Coefficient and Coefficient of Curvature calculated in accordance with BS EN ISO 14688-2: 2004 + A1: 2013

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

Remarks: The material submitted - fails to meet the minimum mass requirements as stated in BS1377 Part 2 Table 3

Signed:

Szczepan Bielatowicz
PL Deputy Head of Geotechnical Section
for and on behalf of i2 Analytical Ltd

Date Reported: 20/04/2021

GF 100.20

TEST CERTIFICATE

Particle Size Distribution

Tested in Accordance with: BS 1377-2: 1990

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

UKAS TESTING 4041

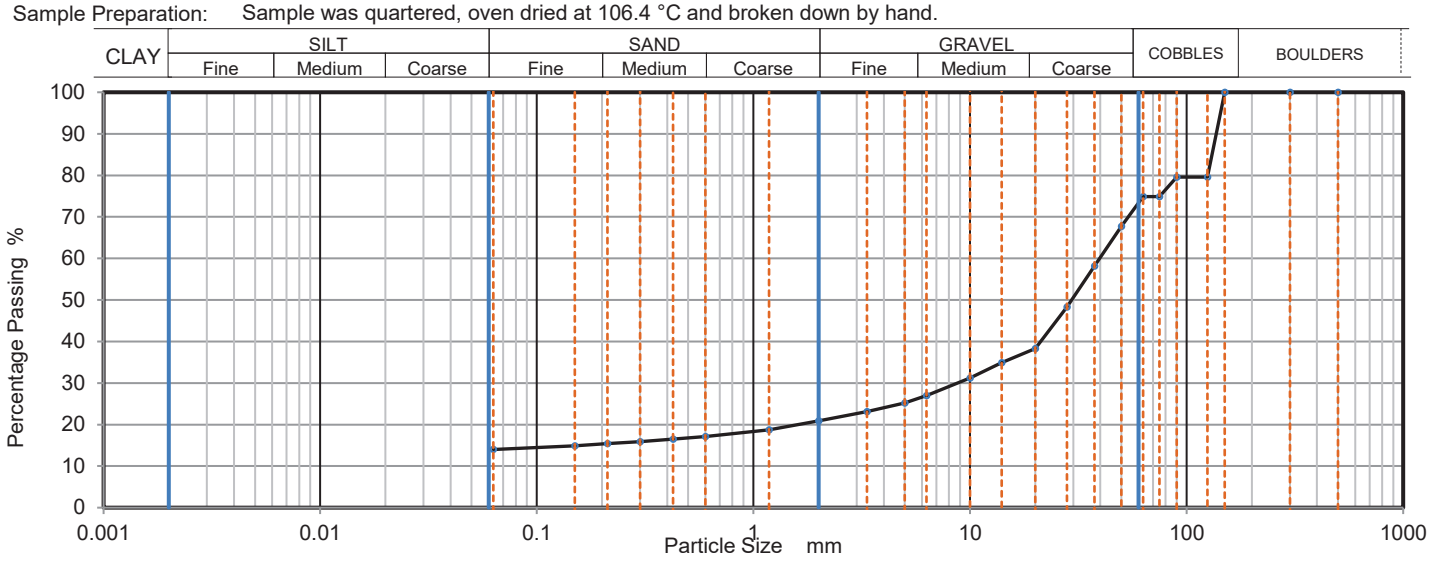
Environmental Science

Client:	Discovery CE	Client Reference:	20008J
Client Address:	The Granary, Broadwell House Farm, Broadwell, Rugby, Warwickshire, CV23 8HF	Job Number:	21-62836
		Date Sampled:	02/03/2021
		Date Received:	12/03/2021
Contact:	Michael Forrester	Date Tested:	30/03/2021
Site Address:	Handy Cross, High Wycombe	Sampled By:	i2 - MF

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

Test Results:

Laboratory Reference:	1804296	Depth Top [m]:	1.60
Hole No.:	TP308	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	D
Sample Description:	Cream colour CHALK		
Sample Preparation:	Sample was quartered, oven dried at 106.4 °C and broken down by hand.		



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
500	100		
300	100		
150	100		
125	80		
90	80		
75	75		
63	75		
50	68		
37.5	58		
28	48		
20	38		
14	35		
10	31		
6.3	27		
5	25		
3.35	23		
2	21		
1.18	19		
0.6	17		
0.425	17		
0.3	16		
0.212	15		
0.15	15		
0.063	14		

Sample Proportions	% dry mass
Very coarse	25
Gravel	54
Sand	7
Fines <0.063mm	14

Grading Analysis		
D100	mm	300
D60	mm	39.6
D30	mm	8.77
D10	mm	
Uniformity Coefficient		> 630
Curvature Coefficient		

Uniformity Coefficient and Coefficient of Curvature calculated in accordance with BS EN ISO 14688-2: 2004 + A1: 2013

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

Remarks: The material submitted - fails to meet the minimum mass requirements as stated in BS1377 Part 2 Table 3

Signed:

Szczepan Bielatowicz
PL Deputy Head of Geotechnical Section
for and on behalf of i2 Analytical Ltd

Date Reported: 20/04/2021

GF 100.20

TEST CERTIFICATE

Particle Size Distribution

Tested in Accordance with: BS 1377-2: 1990

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

UKAS TESTING 4041

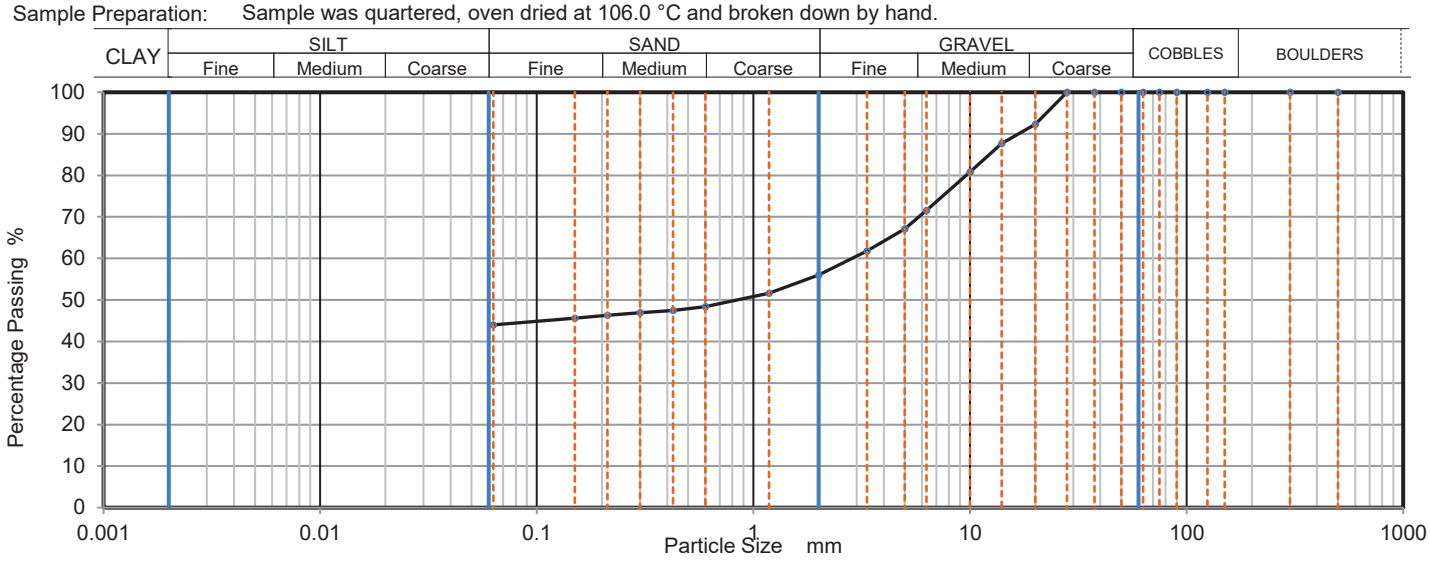
Environmental Science

Client:	Discovery CE	Client Reference:	20008J
Client Address:	The Granary, Broadwell House Farm, Broadwell, Rugby, Warwickshire, CV23 8HF	Job Number:	21-62836
		Date Sampled:	02/03/2021
		Date Received:	12/03/2021
Contact:	Michael Forrester	Date Tested:	30/03/2021
Site Address:	Handy Cross, High Wycombe	Sampled By:	i2 - MF

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

Test Results:

Laboratory Reference:	1804301	Depth Top [m]:	1.00
Hole No.:	TP214B	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	D
Sample Description:	White CHALK		
Sample Preparation:	Sample was quartered, oven dried at 106.0 °C and broken down by hand.		



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	92		
14	88		
10	81		
6.3	72		
5	67		
3.35	62		
2	56		
1.18	52		
0.6	48		
0.425	48		
0.3	47		
0.212	46		
0.15	46		
0.063	44		

Sample Proportions	% dry mass
Very coarse	0
Gravel	44
Sand	12
Fines <0.063mm	44

Grading Analysis		
D100	mm	28
D60	mm	2.87
D30	mm	
D10	mm	
Uniformity Coefficient		> 45
Curvature Coefficient		

Uniformity Coefficient and Coefficient of Curvature calculated in accordance with BS EN ISO 14688-2: 2004 + A1: 2013

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

Remarks:

Signed:

Szczepan Bielatowicz
PL Deputy Head of Geotechnical Section
for and on behalf of i2 Analytical Ltd

Date Reported: 20/04/2021

GF 100.20

SUMMARY REPORT

Summary of Saturation Moisture Content Test Results

Tested in Accordance with: BS 1377-2: 1990: Clause 3.3

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

UKAS TESTING 4041

Environmental Science

Client: Discovery CE

Client Address: The Granary, Broadwell House Farm,
Broadwell, Rugby,
Warwickshire, CV23 8HF

Contact: Michael Forrester

Site Address: Handy Cross, High Wycombe

Client Reference: 20008J
Job Number: 21-62836
Date Sampled: 02/03 - 03/03/2021
Date Received: 12/03/2021
Date Tested: 30/03/2021
Sampled By: i2 - MF

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

Test results

Laboratory Reference	Hole No.	Sample				Description	Remarks	SMC	Bulk density	Dry density	MC								
		Reference	Depth Top m	Depth Base m	Type			%	Mg/m3	Mg/m3	%								
1804291	TP304	Not Given	2.00	Not Given	B	White CHALK	Supplied lump of chalk fails to comply with volume requirements as per BS1377:2 Clause 3.3.5.1	24	2.02	1.63	24								
1804293	TP306	Not Given	1.50	Not Given	B	White CHALK		27	1.96	1.56	26								
1804296	TP308	Not Given	1.60	Not Given	D	Cream colour CHALK	Supplied lump of chalk fails to comply with volume requirements as per BS1377:2 Clause 3.3.5.1	24	2.02	1.64	23								
1804297	TP309	Not Given	1.60	Not Given	D	Cream colour CHALK	Supplied lump of chalk fails to comply with volume requirements as per BS1377:2 Clause 3.3.5.1	37	1.84	1.36	36								
1804298	TP311	Not Given	2.00	Not Given	D	Cream colour CHALK	Supplied lump of chalk fails to comply with volume requirements as per BS1377:2 Clause 3.3.5.1	25	2.05	1.63	26								
1804300	TP312	Not Given	2.00	Not Given	D	Cream colour CHALK	Supplied lump of chalk fails to comply with volume requirements as per BS1377:2 Clause 3.3.5.1	24	2.05	1.65	24								
1804302	TP316	Not Given	2.20	Not Given	D	Cream colour CHALK	Supplied lump of chalk fails to comply with volume requirements as per BS1377:2 Clause 3.3.5.1	20	2.16	1.75	24								

Note: SMC - Saturation Moisture Content; MC - Moisture Content

Comments:

Signed:

Szczepan Bielatowicz
PL Deputy Head of Geotechnical Section
for and on behalf of i2 Analytical Ltd

Date Reported: 20/04/2021

GF 132.13

TEST CERTIFICATE

Dry Density / Moisture Content

Relationship Light Compaction

Tested in Accordance with:
BS 1377-4: 1990

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

UKAS TESTING 4041

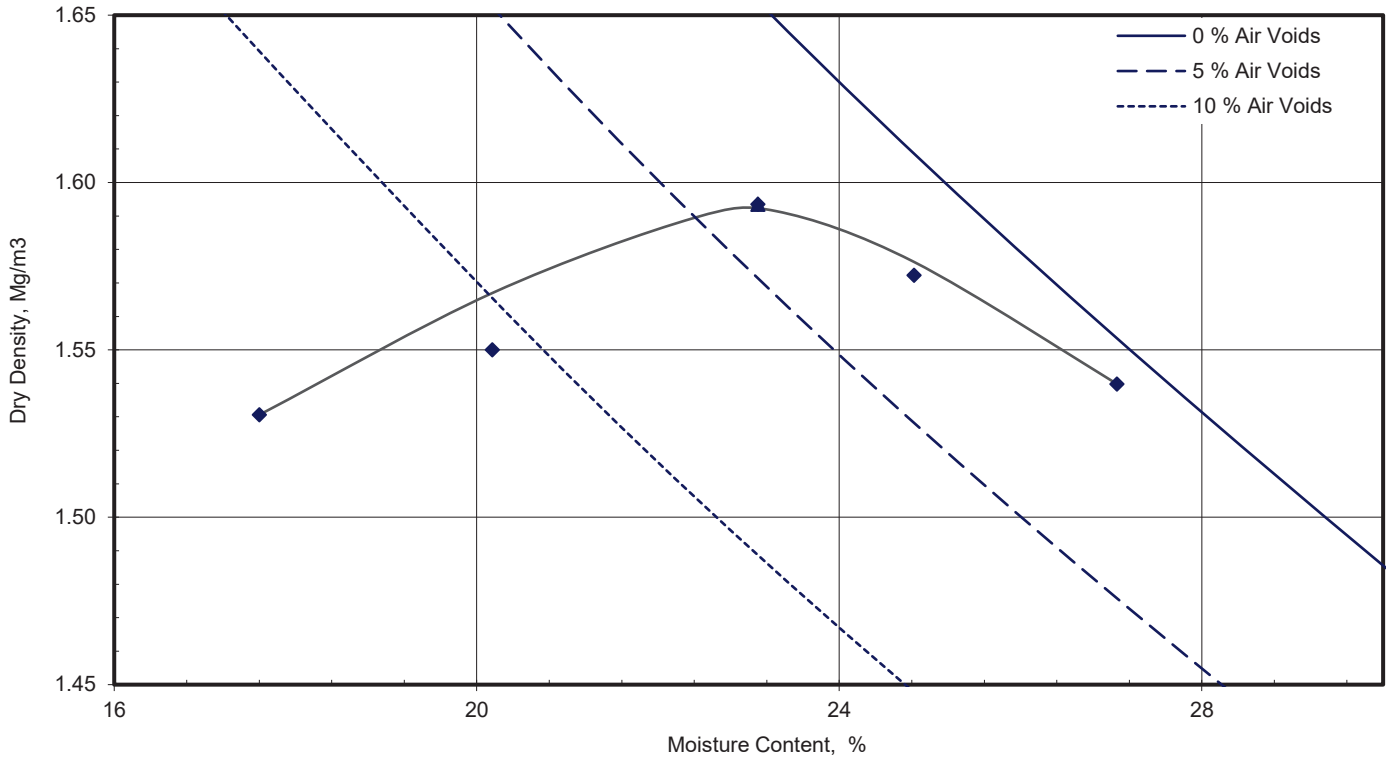
Environmental Science

Client:	Discovery CE	Client Reference:	20008J
Client Address:	The Granary, Broadwell House Farm, Broadwell, Rugby, Warwickshire, CV23 8HF	Job Number:	21-62836
		Date Sampled:	02/03/2021
		Date Received:	12/03/2021
Contact:	Michael Forrester	Date Tested:	31/03/2021
Site Address:	Handy Cross, High Wycombe	Sampled By:	i2 - MF

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

Test Results:

Laboratory Reference:	1804295	Depth Top [m]:	0.70
Hole No.:	TP308	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	D
Sample Description:	Cream colour CHALK		
Sample Preparation:	Sample was quartered and broken down by hand. Material used was natural.		



Compaction Point No.		1	2	3	4	5
Moisture Content	%	18	20	23	25	27
Dry Density	Mg/m³	1.53	1.55	1.59	1.57	1.54

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	2.68
As received Moisture Content	%	27
Maximum Dry Density	Mg/m³	**1.59**

Optimum Moisture Content	%	**23**

Note: Tested in Accordance with BS 1377-4: 1990: Clause 3.3 using 2.5kg [light] Rammer

Remarks:

Signed:

Szczepan Bielatowicz
PL Deputy Head of Geotechnical Section
for and on behalf of i2 Analytical Ltd

Date Reported: 20/04/2021

GF 109.21

TEST CERTIFICATE

Dry Density / Moisture Content

Relationship Light Compaction

Tested in Accordance with:
BS 1377-4: 1990

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

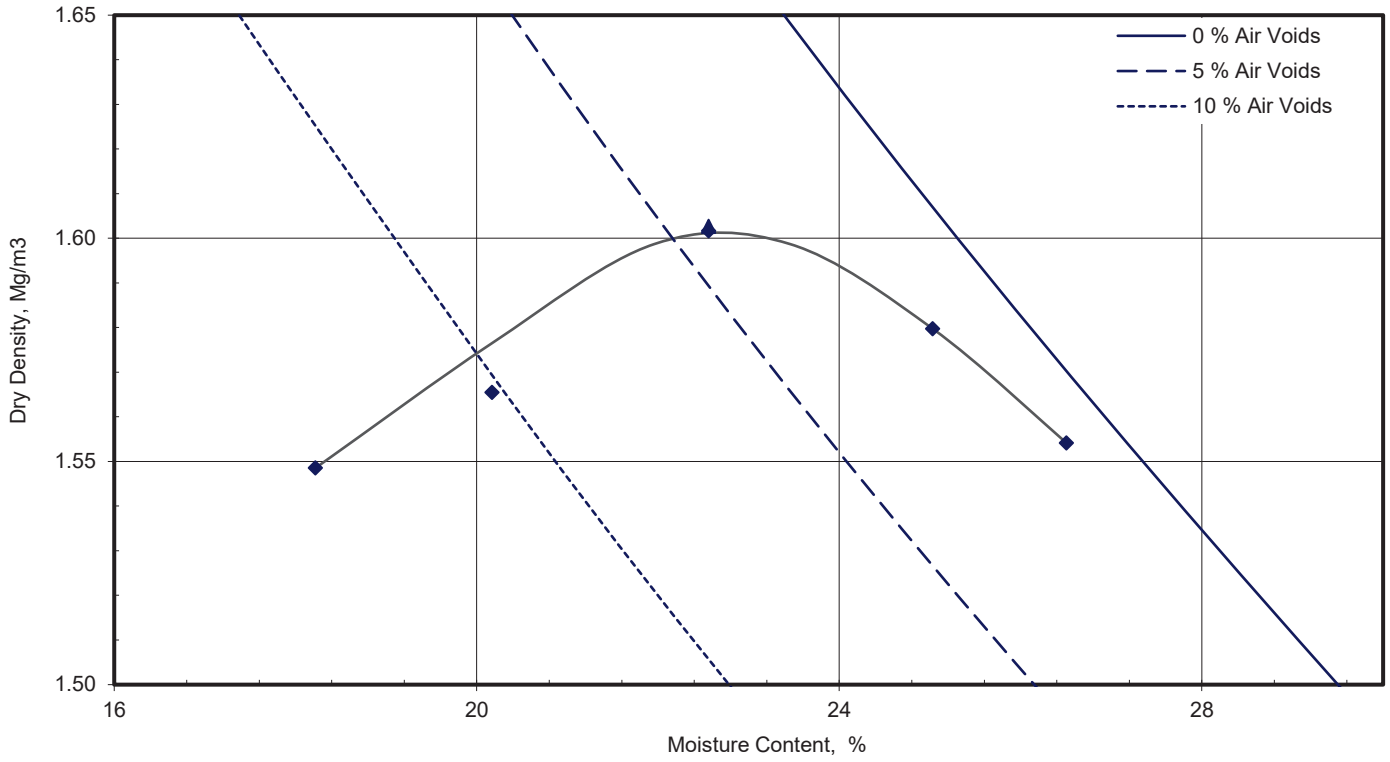
UKAS TESTING 4041

Client:	Discovery CE	Client Reference:	20008J
Client Address:	The Granary, Broadwell House Farm, Broadwell, Rugby, Warwickshire, CV23 8HF	Job Number:	21-62836
		Date Sampled:	02/03/2021
		Date Received:	12/03/2021
Contact:	Michael Forrester	Date Tested:	30/03/2021
Site Address:	Handy Cross, High Wycombe	Sampled By:	i2 - MF

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

Test Results:

Laboratory Reference:	1804301	Depth Top [m]:	1.00
Hole No.:	TP214B	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	D
Sample Description:	White CHALK		
Sample Preparation:	Sample was quartered and broken down by hand. Material used was natural.		



Compaction Point No.		1	2	3	4	5
Moisture Content	%	18	20	23	25	27
Dry Density	Mg/m³	1.55	1.57	1.60	1.58	1.55

Mould Type		CBR
Samples Used		Single sample tested
Material Retained on 37.5 mm Sieve	%	0
Material Retained on 20.0 mm Sieve	%	8
Particle Density - Measured using gas jar	Mg/m³	2.69
As received Moisture Content	%	25
Maximum Dry Density	Mg/m³	**1.60**

Optimum Moisture Content	%	**23**

Note: Tested in Accordance with BS 1377-4: 1990: Clause 3.4 using 2.5kg [light] Rammer

Remarks:

Signed:

Szczepan Bielatowicz
PL Deputy Head of Geotechnical Section
for and on behalf of i2 Analytical Ltd

Date Reported: 20/04/2021

GF 109.21

APPENDIX F - CHEMICAL TEST RESULTS

Eurofins Chemtest Ltd
Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070
Email: info@chemtest.com

Final Report

Report No.:	21-07600-1		
Initial Date of Issue:	16-Mar-2021		
Client	Discovery CE Ltd		
Client Address:	The Granary Broadwell House Farm Broadwell Rugby Warwickshire CV23 8HF		
Contact(s):	Curtis Tse		
Project	20008J Rybrook, Handy Cross		
Quotation No.:	Q21-22554	**Date Received:**	10-Mar-2021
Order No.:		**Date Instructed:**	10-Mar-2021
No. of Samples:	44		
Turnaround (Wkdays):	5	**Results Due:**	16-Mar-2021
Date Approved:	16-Mar-2021		
Approved By:			
Details:	Glynn Harvey, Technical Manager		

Results - Soil

Project: 20008J Rybrook, Handy Cross

Client: Discovery CE Ltd			**Chemtest Job No.:**		21-07600	21-07600	21-07600	21-07600	21-07600	21-07600	21-07600	21-07600	21-07600
Quotation No.: Q21-22554			**Chemtest Sample ID.:**		1157411	1157412	1157413	1157414	1157415	1157416	1157417	1157418	1157419
Order No.:			Client Sample Ref.:		1	1	1	1	1	1	1	1	1
			Client Sample ID.:		BH101	BH101	BH102	BH102	BH103	BH103	BH104	BH104	BH104
			Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
			Top Depth (m):		0.50	2.50	0.50	7.50	0.50	5.50	0.50	2.50	9.00
			Date Sampled:		08-Mar-2021	08-Mar-2021	08-Mar-2021	08-Mar-2021	08-Mar-2021	08-Mar-2021	02-Mar-2021	02-Mar-2021	02-Mar-2021
			Asbestos Lab:										
Determinand	**Accred.**	**SOP**	**Units**	**LOD**									
ACM Type	U	2192		N/A									
Asbestos Identification	U	2192		N/A									
ACM Detection Stage	U	2192		N/A									
Moisture	N	2030	%	0.020	28	12	26	11	35	5.4	9.7	18	11
Soil Colour	N	2040		N/A	Brown	White	White	White	White	White	Brown	White	White
Other Material	N	2040		N/A	Stones	Stones	Stones	Stones	Stones	Stones	Stones and Roots	Stones	Stones
Soil Texture	N	2040		N/A	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay
pH	M	2010		4.0	8.8				11.6	10.6	9.3	9.4	
Magnesium (Water Soluble)	N	2120	g/l	0.010									
Sulphate (2:1 Water Soluble) as SO4	M	2120	g/l	0.010	0.023				0.070	< 0.010	< 0.010	< 0.010	
Chloride (Water Soluble)	M	2220	g/l	0.010									
Nitrate (Water Soluble)	N	2220	g/l	0.010									
Arsenic	M	2450	mg/kg	1.0	16	6.8	13	12	9.9	13	11	11	9.1
Cadmium	M	2450	mg/kg	0.10	0.23	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.26	< 0.10	< 0.10
Chromium	M	2450	mg/kg	1.0	44	1.0	2.7	1.4	2.4	1.1	14	1.4	< 1.0
Copper	M	2450	mg/kg	0.50	21	0.84	1.6	1.6	1.0	0.98	10	0.95	0.70
Mercury	M	2450	mg/kg	0.10	0.12	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Nickel	M	2450	mg/kg	0.50	44	1.7	3.5	3.1	2.4	2.4	14	2.2	1.3
Lead	M	2450	mg/kg	0.50	28	1.1	2.0	1.5	1.1	1.1	22	1.4	0.71
Selenium	M	2450	mg/kg	0.20	0.60	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Vanadium	U	2450	mg/kg	5.0	70	< 5.0	7.1	6.0	6.3	5.4	24	5.5	< 5.0
Zinc	M	2450	mg/kg	0.50	72	2.7	5.0	5.1	3.4	5.8	36	4.7	4.1
Chromium (Hexavalent)	N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total Organic Carbon	M	2625	%	0.20									
TPH >C6-C8	N	2670	mg/kg	1.0	< 1.0		< 1.0		< 1.0		< 1.0		
TPH >C8-C10	N	2670	mg/kg	1.0	< 1.0		< 1.0		< 1.0		< 1.0		
TPH >C10-C12	N	2670	mg/kg	1.0	< 1.0		< 1.0		< 1.0		< 1.0		
TPH >C12-C16	N	2670	mg/kg	1.0	< 1.0		< 1.0		< 1.0		< 1.0		
TPH >C16-C21	N	2670	mg/kg	1.0	< 1.0		< 1.0		< 1.0		< 1.0		
TPH >C21-C25	N	2670	mg/kg	1.0	< 1.0		< 1.0		< 1.0		< 1.0		
TPH >C25-C35	N	2670	mg/kg	1.0	< 1.0		< 1.0		< 1.0		< 1.0		
TPH >C35-C40	N	2670	mg/kg	1.0	< 1.0		< 1.0		< 1.0		< 1.0		
Total TPH >C6-C40	M	2670	mg/kg	10	< 10		< 10		< 10		< 10		
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0									
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0									
Aliphatic TPH >C8-C10	M	2680	mg/kg	1.0									

Results - Soil

Project: 20008J Rybrook, Handy Cross

Client: Discovery CE Ltd			**Chemtest Job No.:**		21-07600	21-07600	21-07600	21-07600	21-07600	21-07600	21-07600	21-07600	21-07600
Quotation No.: Q21-22554			**Chemtest Sample ID.:**		1157411	1157412	1157413	1157414	1157415	1157416	1157417	1157418	1157419
Order No.:			Client Sample Ref.:		1	1	1	1	1	1	1	1	1
			Client Sample ID.:		BH101	BH101	BH102	BH102	BH103	BH103	BH104	BH104	BH104
			Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
			Top Depth (m):		0.50	2.50	0.50	7.50	0.50	5.50	0.50	2.50	9.00
			Date Sampled:		08-Mar-2021	08-Mar-2021	08-Mar-2021	08-Mar-2021	08-Mar-2021	08-Mar-2021	02-Mar-2021	02-Mar-2021	02-Mar-2021
			Asbestos Lab:										
Determinand	**Accred.**	**SOP**	**Units**	**LOD**									
Aliphatic TPH >C10-C12	M	2680	mg/kg	1.0									
Aliphatic TPH >C12-C16	M	2680	mg/kg	1.0									
Aliphatic TPH >C16-C21	M	2680	mg/kg	1.0									
Aliphatic TPH >C21-C35	M	2680	mg/kg	1.0									
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0									
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0									
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0									
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0									
Aromatic TPH >C8-C10	M	2680	mg/kg	1.0									
Aromatic TPH >C10-C12	M	2680	mg/kg	1.0									
Aromatic TPH >C12-C16	M	2680	mg/kg	1.0									
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0									
Aromatic TPH >C21-C35	M	2680	mg/kg	1.0									
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0									
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0									
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0									
Naphthalene	M	2700	mg/kg	0.10	< 0.10		< 0.10		< 0.10		< 0.10		
Acenaphthylene	M	2700	mg/kg	0.10	< 0.10		< 0.10		< 0.10		< 0.10		
Acenaphthene	M	2700	mg/kg	0.10	< 0.10		< 0.10		< 0.10		< 0.10		
Fluorene	M	2700	mg/kg	0.10	< 0.10		< 0.10		< 0.10		< 0.10		
Phenanthrene	M	2700	mg/kg	0.10	< 0.10		< 0.10		< 0.10		< 0.10		
Anthracene	M	2700	mg/kg	0.10	< 0.10		< 0.10		< 0.10		< 0.10		
Fluoranthene	M	2700	mg/kg	0.10	< 0.10		< 0.10		< 0.10		< 0.10		
Pyrene	M	2700	mg/kg	0.10	< 0.10		< 0.10		< 0.10		< 0.10		
Benzo[a]anthracene	M	2700	mg/kg	0.10	< 0.10		< 0.10		< 0.10		< 0.10		
Chrysene	M	2700	mg/kg	0.10	< 0.10		< 0.10		< 0.10		< 0.10		
Benzo[b]fluoranthene	M	2700	mg/kg	0.10	< 0.10		< 0.10		< 0.10		< 0.10		
Benzo[k]fluoranthene	M	2700	mg/kg	0.10	< 0.10		< 0.10		< 0.10		< 0.10		
Benzo[a]pyrene	M	2700	mg/kg	0.10	< 0.10		< 0.10		< 0.10		< 0.10		
Indeno(1,2,3-c,d)Pyrene	M	2700	mg/kg	0.10	< 0.10		< 0.10		< 0.10		< 0.10		
Dibenz(a,h)Anthracene	M	2700	mg/kg	0.10	< 0.10		< 0.10		< 0.10		< 0.10		
Benzo[g,h,i]perylene	M	2700	mg/kg	0.10	< 0.10		< 0.10		< 0.10		< 0.10		
Total Of 16 PAH's	M	2700	mg/kg	2.0	< 2.0		< 2.0		< 2.0		< 2.0		
Benzene	M	2760	µg/kg	1.0									
Toluene	M	2760	µg/kg	1.0									
Ethylbenzene	M	2760	µg/kg	1.0									
m & p-Xylene	M	2760	µg/kg	1.0									
o-Xylene	M	2760	µg/kg	1.0									

Results - Soil

Project: 20008J Rybrook, Handy Cross

Client: Discovery CE Ltd			**Chemtest Job No.:**		21-07600	21-07600	21-07600	21-07600	21-07600	21-07600	21-07600	21-07600	21-07600
Quotation No.: Q21-22554			**Chemtest Sample ID.:**		1157411	1157412	1157413	1157414	1157415	1157416	1157417	1157418	1157419
Order No.:			Client Sample Ref.:		1	1	1	1	1	1	1	1	1
			Client Sample ID.:		BH101	BH101	BH102	BH102	BH103	BH103	BH104	BH104	BH104
			Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
			Top Depth (m):		0.50	2.50	0.50	7.50	0.50	5.50	0.50	2.50	9.00
			Date Sampled:		08-Mar-2021	08-Mar-2021	08-Mar-2021	08-Mar-2021	08-Mar-2021	08-Mar-2021	02-Mar-2021	02-Mar-2021	02-Mar-2021
			Asbestos Lab:										
Determinand	**Accred.**	**SOP**	**Units**	**LOD**									
Methyl Tert-Butyl Ether	M	2760	µg/kg	1.0									

Results - Soil

Project: 20008J Rybrook, Handy Cross

Client: Discovery CE Ltd			**Chemtest Job No.:**		21-07600	21-07600	21-07600	21-07600	21-07600	21-07600	21-07600	21-07600	21-07600
Quotation No.: Q21-22554			**Chemtest Sample ID.:**		1157420	1157421	1157422	1157423	1157424	1157425	1157426	1157427	1157428
Order No.:			Client Sample Ref.:		1	1	1	1	1	1	1	1	1
			Client Sample ID.:		BH105	BH105	BH106	BH106	DS201	DS202	DS202	DS203	DS203
			Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
			Top Depth (m):		0.50	2.00	0.50	2.00	1.40	0.70	1.20	0.20	1.80
			Date Sampled:		02-Mar-2021	02-Mar-2021	03-Mar-2021	03-Mar-2021	05-Mar-2021	05-Mar-2021	05-Mar-2021	04-Mar-2021	04-Mar-2021
			Asbestos Lab:		COVENTRY							COVENTRY	
Determinand	**Accred.**	**SOP**	**Units**	**LOD**									
ACM Type	U	2192		N/A	-							-	
Asbestos Identification	U	2192		N/A	No Asbestos Detected							No Asbestos Detected	
ACM Detection Stage	U	2192		N/A	-							-	
Moisture	N	2030	%	0.020	19	29	12	19	25	28	20	7.3	18
Soil Colour	N	2040		N/A	Brown	White	Brown	White	White	Brown	White	Brown	White
Other Material	N	2040		N/A	Stones and Roots	Stones	Stones	Stones	Stones	Stones	Stones	Stones	Stones
Soil Texture	N	2040		N/A	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Sand	Clay
pH	M	2010		4.0	9.0	9.0	9.1		8.9				
Magnesium (Water Soluble)	N	2120	g/l	0.010	< 0.010								
Sulphate (2:1 Water Soluble) as SO4	M	2120	g/l	0.010	0.069	< 0.010	0.023		< 0.010				
Chloride (Water Soluble)	M	2220	g/l	0.010	0.010								
Nitrate (Water Soluble)	N	2220	g/l	0.010	0.015								
Arsenic	M	2450	mg/kg	1.0	11	11	19	10	10	21	11	14	11
Cadmium	M	2450	mg/kg	0.10	0.35	0.13	0.43	0.12	0.15	0.36	0.11	0.18	0.13
Chromium	M	2450	mg/kg	1.0	19	4.2	30	1.4	5.7	50	3.1	12	1.0
Copper	M	2450	mg/kg	0.50	13	< 0.50	13	< 0.50	0.97	18	< 0.50	17	< 0.50
Mercury	M	2450	mg/kg	0.10	0.10	< 0.10	0.16	< 0.10	< 0.10	0.21	< 0.10	< 0.10	< 0.10
Nickel	M	2450	mg/kg	0.50	19	4.7	28	1.8	5.3	56	3.4	11	2.2
Lead	M	2450	mg/kg	0.50	33	1.1	59	0.72	2.4	19	1.4	16	< 0.50
Selenium	M	2450	mg/kg	0.20	0.27	< 0.20	< 0.20	< 0.20	< 0.20	0.87	< 0.20	< 0.20	< 0.20
Vanadium	U	2450	mg/kg	5.0	31	5.1	49	< 5.0	10	79	6.8	21	< 5.0
Zinc	M	2450	mg/kg	0.50	49	6.0	55	4.0	12	80	7.0	110	4.4
Chromium (Hexavalent)	N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total Organic Carbon	M	2625	%	0.20	1.3								
TPH >C6-C8	N	2670	mg/kg	1.0			< 1.0						
TPH >C8-C10	N	2670	mg/kg	1.0			< 1.0						
TPH >C10-C12	N	2670	mg/kg	1.0			< 1.0						
TPH >C12-C16	N	2670	mg/kg	1.0			< 1.0						
TPH >C16-C21	N	2670	mg/kg	1.0			< 1.0						
TPH >C21-C25	N	2670	mg/kg	1.0			< 1.0						
TPH >C25-C35	N	2670	mg/kg	1.0			< 1.0						
TPH >C35-C40	N	2670	mg/kg	1.0			< 1.0						
Total TPH >C6-C40	M	2670	mg/kg	10			< 10						
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0	< 1.0								
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0	< 1.0								
Aliphatic TPH >C8-C10	M	2680	mg/kg	1.0	< 1.0								

Results - Soil

Project: 20008J Rybrook, Handy Cross

Client: Discovery CE Ltd			**Chemtest Job No.:**		21-07600	21-07600	21-07600	21-07600	21-07600	21-07600	21-07600	21-07600	21-07600
Quotation No.: Q21-22554			**Chemtest Sample ID.:**		1157420	1157421	1157422	1157423	1157424	1157425	1157426	1157427	1157428
Order No.:			Client Sample Ref.:		1	1	1	1	1	1	1	1	1
			Client Sample ID.:		BH105	BH105	BH106	BH106	DS201	DS202	DS202	DS203	DS203
			Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
			Top Depth (m):		0.50	2.00	0.50	2.00	1.40	0.70	1.20	0.20	1.80
			Date Sampled:		02-Mar-2021	02-Mar-2021	03-Mar-2021	03-Mar-2021	05-Mar-2021	05-Mar-2021	05-Mar-2021	04-Mar-2021	04-Mar-2021
			Asbestos Lab:		COVENTRY							COVENTRY	
Determinand	**Accred.**	**SOP**	**Units**	**LOD**									
Aliphatic TPH >C10-C12	M	2680	mg/kg	1.0	< 1.0								
Aliphatic TPH >C12-C16	M	2680	mg/kg	1.0	< 1.0								
Aliphatic TPH >C16-C21	M	2680	mg/kg	1.0	< 1.0								
Aliphatic TPH >C21-C35	M	2680	mg/kg	1.0	< 1.0								
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0								
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0	< 5.0								
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0	< 1.0								
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0	< 1.0								
Aromatic TPH >C8-C10	M	2680	mg/kg	1.0	< 1.0								
Aromatic TPH >C10-C12	M	2680	mg/kg	1.0	< 1.0								
Aromatic TPH >C12-C16	M	2680	mg/kg	1.0	< 1.0								
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0	< 1.0								
Aromatic TPH >C21-C35	M	2680	mg/kg	1.0	< 1.0								
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0								
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0	< 5.0								
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0	< 10								
Naphthalene	M	2700	mg/kg	0.10	< 0.10		< 0.10						
Acenaphthylene	M	2700	mg/kg	0.10	< 0.10		< 0.10						
Acenaphthene	M	2700	mg/kg	0.10	< 0.10		< 0.10						
Fluorene	M	2700	mg/kg	0.10	0.24		< 0.10						
Phenanthrene	M	2700	mg/kg	0.10	0.61		< 0.10						
Anthracene	M	2700	mg/kg	0.10	0.23		< 0.10						
Fluoranthene	M	2700	mg/kg	0.10	0.91		< 0.10						
Pyrene	M	2700	mg/kg	0.10	0.88		< 0.10						
Benzo[a]anthracene	M	2700	mg/kg	0.10	0.57		< 0.10						
Chrysene	M	2700	mg/kg	0.10	0.75		< 0.10						
Benzo[b]fluoranthene	M	2700	mg/kg	0.10	0.81		< 0.10						
Benzo[k]fluoranthene	M	2700	mg/kg	0.10	0.25		< 0.10						
Benzo[a]pyrene	M	2700	mg/kg	0.10	0.55		< 0.10						
Indeno(1,2,3-c,d)Pyrene	M	2700	mg/kg	0.10	0.45		< 0.10						
Dibenz(a,h)Anthracene	M	2700	mg/kg	0.10	0.32		< 0.10						
Benzo[g,h,i]perylene	M	2700	mg/kg	0.10	0.50		< 0.10						
Total Of 16 PAH's	M	2700	mg/kg	2.0	7.1		< 2.0						
Benzene	M	2760	µg/kg	1.0	< 1.0								
Toluene	M	2760	µg/kg	1.0	< 1.0								
Ethylbenzene	M	2760	µg/kg	1.0	< 1.0								
m & p-Xylene	M	2760	µg/kg	1.0	< 1.0								
o-Xylene	M	2760	µg/kg	1.0	< 1.0								

Results - Soil

Project: 20008J Rybrook, Handy Cross

Client: Discovery CE Ltd			**Chemtest Job No.:**		21-07600	21-07600	21-07600	21-07600	21-07600	21-07600	21-07600	21-07600	21-07600
Quotation No.: Q21-22554			**Chemtest Sample ID.:**		1157420	1157421	1157422	1157423	1157424	1157425	1157426	1157427	1157428
Order No.:			Client Sample Ref.:		1	1	1	1	1	1	1	1	1
			Client Sample ID.:		BH105	BH105	BH106	BH106	DS201	DS202	DS202	DS203	DS203
			Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
			Top Depth (m):		0.50	2.00	0.50	2.00	1.40	0.70	1.20	0.20	1.80
			Date Sampled:		02-Mar-2021	02-Mar-2021	03-Mar-2021	03-Mar-2021	05-Mar-2021	05-Mar-2021	05-Mar-2021	04-Mar-2021	04-Mar-2021
			Asbestos Lab:		COVENTRY							COVENTRY	
Determinand	**Accred.**	**SOP**	**Units**	**LOD**									
Methyl Tert-Butyl Ether	M	2760	µg/kg	1.0	< 1.0								

Results - Soil

Project: 20008J Rybrook, Handy Cross

Client: Discovery CE Ltd			**Chemtest Job No.:**		21-07600	21-07600	21-07600	21-07600	21-07600	21-07600	21-07600	21-07600	21-07600
Quotation No.: Q21-22554			**Chemtest Sample ID.:**		1157429	1157430	1157431	1157432	1157433	1157434	1157435	1157436	1157437
Order No.:			Client Sample Ref.:		1	1	1	1	1	1	1	1	1
			Client Sample ID.:		DS204	DS205	DS206	DS207	DS208	TP302	TP302	TP304	TP305
			Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
			Top Depth (m):		1.40	1.20	0.30	2.50	0.45	0.10	1.60	2.00	0.30
			Date Sampled:		05-Mar-2021	04-Mar-2021	04-Mar-2021	04-Mar-2021	04-Mar-2021	03-Mar-2021	03-Mar-2021	03-Mar-2021	03-Mar-2021
			Asbestos Lab:		COVENTRY				COVENTRY	COVENTRY			COVENTRY
Determinand	**Accred.**	**SOP**	**Units**	**LOD**									
ACM Type	U	2192		N/A	-				-	-			-
Asbestos Identification	U	2192		N/A	No Asbestos Detected				No Asbestos Detected	No Asbestos Detected			No Asbestos Detected
ACM Detection Stage	U	2192		N/A	-				-	-			-
Moisture	N	2030	%	0.020	11	22	15	17	18	19	16	18	9.8
Soil Colour	N	2040		N/A	Brown	White	Brown	White	Brown	Brown	Brown	White	Brown
Other Material	N	2040		N/A	Stones	Stones	Stones	Stones	Stones	Stones	Stones	Stones	Stones
Soil Texture	N	2040		N/A	Sand	Clay	Clay	Clay	Sand	Sand	Clay	Clay	Sand
pH	M	2010		4.0						9.1	8.9	10.8	9.3
Magnesium (Water Soluble)	N	2120	g/l	0.010						< 0.010			< 0.010
Sulphate (2:1 Water Soluble) as SO4	M	2120	g/l	0.010						0.86	0.030	0.041	< 0.010
Chloride (Water Soluble)	M	2220	g/l	0.010						< 0.010			< 0.010
Nitrate (Water Soluble)	N	2220	g/l	0.010						< 0.010			< 0.010
Arsenic	M	2450	mg/kg	1.0	15	13	14	12	10	44	9.7	13	5.6
Cadmium	M	2450	mg/kg	0.10	0.10	0.12	0.27	0.14	3.3	0.44	0.20	0.11	< 0.10
Chromium	M	2450	mg/kg	1.0	20	4.1	19	< 1.0	11	13	16	4.3	12
Copper	M	2450	mg/kg	0.50	7.4	< 0.50	7.8	< 0.50	12	9.3	5.5	< 0.50	46
Mercury	M	2450	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Nickel	M	2450	mg/kg	0.50	13	3.9	20	2.0	10	12	18	4.4	12
Lead	M	2450	mg/kg	0.50	12	1.4	18	< 0.50	12	120	13	1.8	23
Selenium	M	2450	mg/kg	0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	0.33	< 0.20	< 0.20	< 0.20
Vanadium	U	2450	mg/kg	5.0	30	8.8	34	< 5.0	17	28	28	9.3	58
Zinc	M	2450	mg/kg	0.50	55	7.7	30	4.5	130	67	27	7.5	49
Chromium (Hexavalent)	N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total Organic Carbon	M	2625	%	0.20							< 0.20		
TPH >C6-C8	N	2670	mg/kg	1.0									
TPH >C8-C10	N	2670	mg/kg	1.0									
TPH >C10-C12	N	2670	mg/kg	1.0									
TPH >C12-C16	N	2670	mg/kg	1.0									
TPH >C16-C21	N	2670	mg/kg	1.0									
TPH >C21-C25	N	2670	mg/kg	1.0									
TPH >C25-C35	N	2670	mg/kg	1.0									
TPH >C35-C40	N	2670	mg/kg	1.0									
Total TPH >C6-C40	M	2670	mg/kg	10									
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0						< 1.0			< 1.0
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0						< 1.0			< 1.0
Aliphatic TPH >C8-C10	M	2680	mg/kg	1.0						< 1.0			< 1.0

Results - Soil

Project: 20008J Rybrook, Handy Cross

Client: Discovery CE Ltd			**Chemtest Job No.:**		21-07600	21-07600	21-07600	21-07600	21-07600	21-07600	21-07600	21-07600	21-07600
Quotation No.: Q21-22554			**Chemtest Sample ID.:**		1157429	1157430	1157431	1157432	1157433	1157434	1157435	1157436	1157437
Order No.:			Client Sample Ref.:		1	1	1	1	1	1	1	1	1
			Client Sample ID.:		DS204	DS205	DS206	DS207	DS208	TP302	TP302	TP304	TP305
			Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
			Top Depth (m):		1.40	1.20	0.30	2.50	0.45	0.10	1.60	2.00	0.30
			Date Sampled:		05-Mar-2021	04-Mar-2021	04-Mar-2021	04-Mar-2021	04-Mar-2021	03-Mar-2021	03-Mar-2021	03-Mar-2021	03-Mar-2021
			Asbestos Lab:		COVENTRY				COVENTRY	COVENTRY			COVENTRY
Determinand	**Accred.**	**SOP**	**Units**	**LOD**									
Aliphatic TPH >C10-C12	M	2680	mg/kg	1.0						< 1.0			< 1.0
Aliphatic TPH >C12-C16	M	2680	mg/kg	1.0						< 1.0			< 1.0
Aliphatic TPH >C16-C21	M	2680	mg/kg	1.0						< 1.0			< 1.0
Aliphatic TPH >C21-C35	M	2680	mg/kg	1.0						< 1.0			< 1.0
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0						< 1.0			< 1.0
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0						< 5.0			< 5.0
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0						< 1.0			< 1.0
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0						< 1.0			< 1.0
Aromatic TPH >C8-C10	M	2680	mg/kg	1.0						< 1.0			< 1.0
Aromatic TPH >C10-C12	M	2680	mg/kg	1.0						< 1.0			< 1.0
Aromatic TPH >C12-C16	M	2680	mg/kg	1.0						< 1.0			< 1.0
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0						< 1.0			< 1.0
Aromatic TPH >C21-C35	M	2680	mg/kg	1.0						< 1.0			< 1.0
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0						< 1.0			< 1.0
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0						< 5.0			< 5.0
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0						< 10			< 10
Naphthalene	M	2700	mg/kg	0.10						< 0.10			< 0.10
Acenaphthylene	M	2700	mg/kg	0.10						< 0.10			< 0.10
Acenaphthene	M	2700	mg/kg	0.10						0.11			< 0.10
Fluorene	M	2700	mg/kg	0.10						0.11			< 0.10
Phenanthrene	M	2700	mg/kg	0.10						1.2			< 0.10
Anthracene	M	2700	mg/kg	0.10						0.43			< 0.10
Fluoranthene	M	2700	mg/kg	0.10						2.1			0.28
Pyrene	M	2700	mg/kg	0.10						1.7			0.37
Benzo[a]anthracene	M	2700	mg/kg	0.10						1.0			< 0.10
Chrysene	M	2700	mg/kg	0.10						1.2			< 0.10
Benzo[b]fluoranthene	M	2700	mg/kg	0.10						< 0.10			< 0.10
Benzo[k]fluoranthene	M	2700	mg/kg	0.10						< 0.10			< 0.10
Benzo[a]pyrene	M	2700	mg/kg	0.10						< 0.10			< 0.10
Indeno(1,2,3-c,d)Pyrene	M	2700	mg/kg	0.10						< 0.10			< 0.10
Dibenz(a,h)Anthracene	M	2700	mg/kg	0.10						< 0.10			< 0.10
Benzo[g,h,i]perylene	M	2700	mg/kg	0.10						< 0.10			< 0.10
Total Of 16 PAH's	M	2700	mg/kg	2.0						7.9			< 2.0
Benzene	M	2760	µg/kg	1.0						< 1.0			< 1.0
Toluene	M	2760	µg/kg	1.0						< 1.0			< 1.0
Ethylbenzene	M	2760	µg/kg	1.0						< 1.0			< 1.0
m & p-Xylene	M	2760	µg/kg	1.0						< 1.0			< 1.0
o-Xylene	M	2760	µg/kg	1.0						< 1.0			< 1.0

Results - Soil

Project: 20008J Rybrook, Handy Cross

Client: Discovery CE Ltd			**Chemtest Job No.:**		21-07600	21-07600	21-07600	21-07600	21-07600	21-07600	21-07600	21-07600	21-07600
Quotation No.: Q21-22554			**Chemtest Sample ID.:**		1157429	1157430	1157431	1157432	1157433	1157434	1157435	1157436	1157437
Order No.:			Client Sample Ref.:		1	1	1	1	1	1	1	1	1
			Client Sample ID.:		DS204	DS205	DS206	DS207	DS208	TP302	TP302	TP304	TP305
			Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
			Top Depth (m):		1.40	1.20	0.30	2.50	0.45	0.10	1.60	2.00	0.30
			Date Sampled:		05-Mar-2021	04-Mar-2021	04-Mar-2021	04-Mar-2021	04-Mar-2021	03-Mar-2021	03-Mar-2021	03-Mar-2021	03-Mar-2021
			Asbestos Lab:		COVENTRY				COVENTRY	COVENTRY			COVENTRY
Determinand	**Accred.**	**SOP**	**Units**	**LOD**									
Methyl Tert-Butyl Ether	M	2760	µg/kg	1.0						< 1.0			< 1.0

Results - Soil

Project: 20008J Rybrook, Handy Cross

Client: Discovery CE Ltd			**Chemtest Job No.:**		21-07600	21-07600	21-07600	21-07600	21-07600	21-07600	21-07600	21-07600	21-07600
Quotation No.: Q21-22554			**Chemtest Sample ID.:**		1157438	1157439	1157440	1157441	1157442	1157443	1157444	1157445	1157446
Order No.:			Client Sample Ref.:		1	1	1	1	1	1	1	1	1
			Client Sample ID.:		TP305	TP306	DS210	DS210	TP308	TP309	TP310	TP312	TP312
			Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
			Top Depth (m):		0.90	1.00	0.10	0.60	1.60	0.80	0.50	0.60	2.00
			Date Sampled:		03-Mar-2021	03-Mar-2021	05-Mar-2021	05-Mar-2021	02-Mar-2021	03-Mar-2021	03-Mar-2021	03-Mar-2021	02-Mar-2021
			Asbestos Lab:				COVENTRY			COVENTRY	COVENTRY	COVENTRY	
Determinand	**Accred.**	**SOP**	**Units**	**LOD**									
ACM Type	U	2192		N/A			-			-	-	-	
Asbestos Identification	U	2192		N/A			No Asbestos Detected			No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	
ACM Detection Stage	U	2192		N/A			-			-	-	-	
Moisture	N	2030	%	0.020	21	21	8.3	17	23	13	21	26	20
Soil Colour	N	2040		N/A	Brown	White	Brown	Brown	White	Brown	White	Brown	White
Other Material	N	2040		N/A	Stones	Stones	Stones	Stones	Stones	Stones	Stones	Stones	Stones
Soil Texture	N	2040		N/A	Clay	Clay	Sand	Clay	Clay	Clay	Clay	Clay	Clay
pH	M	2010		4.0	9.2		9.1		9.2	8.7	9.2	8.7	
Magnesium (Water Soluble)	N	2120	g/l	0.010			< 0.010			< 0.010	< 0.010	< 0.010	
Sulphate (2:1 Water Soluble) as SO4	M	2120	g/l	0.010	< 0.010		< 0.010		0.014	< 0.010	< 0.010	< 0.010	
Chloride (Water Soluble)	M	2220	g/l	0.010			0.010			< 0.010	1.2	0.077	
Nitrate (Water Soluble)	N	2220	g/l	0.010			< 0.010			< 0.010	< 0.010	0.037	
Arsenic	M	2450	mg/kg	1.0	13	15	5.0	14	18	11	18	23	12
Cadmium	M	2450	mg/kg	0.10	0.39	0.13	< 0.10	0.27	0.19	0.59	0.18	0.26	< 0.10
Chromium	M	2450	mg/kg	1.0	39	3.1	8.4	15	3.5	35	14	28	1.3
Copper	M	2450	mg/kg	0.50	13	< 0.50	60	9.5	1.0	24	5.1	10	0.72
Mercury	M	2450	mg/kg	0.10	0.14	< 0.10	< 0.10	< 0.10	< 0.10	0.10	< 0.10	< 0.10	< 0.10
Nickel	M	2450	mg/kg	0.50	56	3.3	9.5	15	4.7	35	15	26	1.9
Lead	M	2450	mg/kg	0.50	17	1.2	19	19	3.7	20	7.4	14	1.0
Selenium	M	2450	mg/kg	0.20	1.3	< 0.20	< 0.20	< 0.20	< 0.20	0.29	< 0.20	< 0.20	< 0.20
Vanadium	U	2450	mg/kg	5.0	60	6.9	26	27	7.3	54	28	44	7.6
Zinc	M	2450	mg/kg	0.50	53	6.7	41	31	11	91	23	38	4.2
Chromium (Hexavalent)	N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total Organic Carbon	M	2625	%	0.20								0.50	
TPH >C6-C8	N	2670	mg/kg	1.0									
TPH >C8-C10	N	2670	mg/kg	1.0									
TPH >C10-C12	N	2670	mg/kg	1.0									
TPH >C12-C16	N	2670	mg/kg	1.0									
TPH >C16-C21	N	2670	mg/kg	1.0									
TPH >C21-C25	N	2670	mg/kg	1.0									
TPH >C25-C35	N	2670	mg/kg	1.0									
TPH >C35-C40	N	2670	mg/kg	1.0									
Total TPH >C6-C40	M	2670	mg/kg	10									
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0			< 1.0			< 1.0	[C] < 1.0	< 1.0	
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0			< 1.0			< 1.0	[C] < 1.0	< 1.0	
Aliphatic TPH >C8-C10	M	2680	mg/kg	1.0			< 1.0			< 1.0	[C] < 1.0	< 1.0	

Results - Soil

Project: 20008J Rybrook, Handy Cross

Client: Discovery CE Ltd			**Chemtest Job No.:**		21-07600	21-07600	21-07600	21-07600	21-07600	21-07600	21-07600	21-07600	21-07600
Quotation No.: Q21-22554			**Chemtest Sample ID.:**		1157438	1157439	1157440	1157441	1157442	1157443	1157444	1157445	1157446
Order No.:			Client Sample Ref.:		1	1	1	1	1	1	1	1	1
			Client Sample ID.:		TP305	TP306	DS210	DS210	TP308	TP309	TP310	TP312	TP312
			Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
			Top Depth (m):		0.90	1.00	0.10	0.60	1.60	0.80	0.50	0.60	2.00
			Date Sampled:		03-Mar-2021	03-Mar-2021	05-Mar-2021	05-Mar-2021	02-Mar-2021	03-Mar-2021	03-Mar-2021	03-Mar-2021	02-Mar-2021
			Asbestos Lab:				COVENTRY			COVENTRY	COVENTRY	COVENTRY	
Determinand	**Accred.**	**SOP**	**Units**	**LOD**									
Aliphatic TPH >C10-C12	M	2680	mg/kg	1.0			< 1.0			< 1.0	[C] < 1.0	< 1.0	
Aliphatic TPH >C12-C16	M	2680	mg/kg	1.0			< 1.0			< 1.0	[C] < 1.0	< 1.0	
Aliphatic TPH >C16-C21	M	2680	mg/kg	1.0			< 1.0			< 1.0	[C] < 1.0	< 1.0	
Aliphatic TPH >C21-C35	M	2680	mg/kg	1.0			< 1.0			< 1.0	[C] < 1.0	< 1.0	
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0			< 1.0			< 1.0	[C] < 1.0	< 1.0	
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0			< 5.0			< 5.0	[C] < 5.0	< 5.0	
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0			< 1.0			< 1.0	[C] < 1.0	< 1.0	
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0			< 1.0			< 1.0	[C] < 1.0	< 1.0	
Aromatic TPH >C8-C10	M	2680	mg/kg	1.0			< 1.0			< 1.0	[C] < 1.0	< 1.0	
Aromatic TPH >C10-C12	M	2680	mg/kg	1.0			< 1.0			< 1.0	[C] < 1.0	< 1.0	
Aromatic TPH >C12-C16	M	2680	mg/kg	1.0			< 1.0			< 1.0	[C] < 1.0	< 1.0	
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0			< 1.0			< 1.0	[C] < 1.0	< 1.0	
Aromatic TPH >C21-C35	M	2680	mg/kg	1.0			< 1.0			< 1.0	[C] < 1.0	< 1.0	
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0			< 1.0			< 1.0	[C] < 1.0	< 1.0	
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0			< 5.0			< 5.0	[C] < 5.0	< 5.0	
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0			< 10			< 10	[C] < 10	< 10	
Naphthalene	M	2700	mg/kg	0.10			< 0.10			< 0.10	< 0.10	< 0.10	
Acenaphthylene	M	2700	mg/kg	0.10			< 0.10			< 0.10	< 0.10	< 0.10	
Acenaphthene	M	2700	mg/kg	0.10			< 0.10			< 0.10	< 0.10	< 0.10	
Fluorene	M	2700	mg/kg	0.10			< 0.10			< 0.10	< 0.10	< 0.10	
Phenanthrene	M	2700	mg/kg	0.10			0.61			< 0.10	< 0.10	< 0.10	
Anthracene	M	2700	mg/kg	0.10			< 0.10			< 0.10	< 0.10	< 0.10	
Fluoranthene	M	2700	mg/kg	0.10			1.7			< 0.10	< 0.10	< 0.10	
Pyrene	M	2700	mg/kg	0.10			1.7			< 0.10	< 0.10	< 0.10	
Benzo[a]anthracene	M	2700	mg/kg	0.10			0.89			< 0.10	< 0.10	< 0.10	
Chrysene	M	2700	mg/kg	0.10			0.96			< 0.10	< 0.10	< 0.10	
Benzo[b]fluoranthene	M	2700	mg/kg	0.10			1.7			< 0.10	< 0.10	< 0.10	
Benzo[k]fluoranthene	M	2700	mg/kg	0.10			0.72			< 0.10	< 0.10	< 0.10	
Benzo[a]pyrene	M	2700	mg/kg	0.10			1.1			< 0.10	< 0.10	< 0.10	
Indeno(1,2,3-c,d)Pyrene	M	2700	mg/kg	0.10			1.1			< 0.10	< 0.10	< 0.10	
Dibenz(a,h)Anthracene	M	2700	mg/kg	0.10			0.58			< 0.10	< 0.10	< 0.10	
Benzo[g,h,i]perylene	M	2700	mg/kg	0.10			0.85			< 0.10	< 0.10	< 0.10	
Total Of 16 PAH's	M	2700	mg/kg	2.0			12			< 2.0	< 2.0	< 2.0	
Benzene	M	2760	µg/kg	1.0			< 1.0			< 1.0	[C] < 1.0	< 1.0	
Toluene	M	2760	µg/kg	1.0			< 1.0			< 1.0	[C] < 1.0	< 1.0	
Ethylbenzene	M	2760	µg/kg	1.0			< 1.0			< 1.0	[C] < 1.0	< 1.0	
m & p-Xylene	M	2760	µg/kg	1.0			< 1.0			< 1.0	[C] < 1.0	< 1.0	
o-Xylene	M	2760	µg/kg	1.0			< 1.0			< 1.0	[C] < 1.0	< 1.0	

Results - Soil

Project: 20008J Rybrook, Handy Cross

Client: Discovery CE Ltd			**Chemtest Job No.:**		21-07600	21-07600	21-07600	21-07600	21-07600	21-07600	21-07600	21-07600	21-07600
Quotation No.: Q21-22554			**Chemtest Sample ID.:**		1157438	1157439	1157440	1157441	1157442	1157443	1157444	1157445	1157446
Order No.:			Client Sample Ref.:		1	1	1	1	1	1	1	1	1
			Client Sample ID.:		TP305	TP306	DS210	DS210	TP308	TP309	TP310	TP312	TP312
			Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
			Top Depth (m):		0.90	1.00	0.10	0.60	1.60	0.80	0.50	0.60	2.00
			Date Sampled:		03-Mar-2021	03-Mar-2021	05-Mar-2021	05-Mar-2021	02-Mar-2021	03-Mar-2021	03-Mar-2021	03-Mar-2021	02-Mar-2021
			Asbestos Lab:				COVENTRY			COVENTRY	COVENTRY	COVENTRY	
Determinand	**Accred.**	**SOP**	**Units**	**LOD**									
Methyl Tert-Butyl Ether	M	2760	µg/kg	1.0			< 1.0			< 1.0	[C] < 1.0	< 1.0	

Results - Soil

Project: 20008J Rybrook, Handy Cross

Client: Discovery CE Ltd			**Chemtest Job No.:**		21-07600	21-07600	21-07600	21-07600	21-07600	21-07600	21-07600	21-07600
Quotation No.: Q21-22554			**Chemtest Sample ID.:**		1157447	1157448	1157449	1157450	1157451	1157452	1157453	1157455
Order No.:			Client Sample Ref.:		1	1	1	1	1	1	1	1
			Client Sample ID.:		TP314	TP314A	TP314A	DS209	DS209	TP316	TP316	TP304
			Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
			Top Depth (m):		0.20	0.20	1.00	0.10	0.50	0.30	1.50	0.40
			Date Sampled:		02-Mar-2021	02-Mar-2021	02-Mar-2021	05-Mar-2021	05-Mar-2021	02-Mar-2021	02-Mar-2021	
			Asbestos Lab:			COVENTRY				COVENTRY		
Determinand	**Accred.**	**SOP**	**Units**	**LOD**								
ACM Type	U	2192		N/A		-				-		
Asbestos Identification	U	2192		N/A		No Asbestos Detected				No Asbestos Detected		
ACM Detection Stage	U	2192		N/A		-				-		
Moisture	N	2030	%	0.020	13	9.9	19	2.6	26	26	11	22
Soil Colour	N	2040		N/A	Brown	Brown	White	Brown	Brown	Brown	Brown	White
Other Material	N	2040		N/A	Stones and Roots	Stones	Stones	Stones	Stones	Stones and Roots	Stones	Stones
Soil Texture	N	2040		N/A	Sand	Sand	Clay	Sand	Clay	Sand	Clay	Clay
pH	M	2010		4.0	9.7	9.7	9.1			8.8	8.8	
Magnesium (Water Soluble)	N	2120	g/l	0.010		< 0.010				< 0.010		
Sulphate (2:1 Water Soluble) as SO4	M	2120	g/l	0.010	0.25	< 0.010	0.033			< 0.010	< 0.010	
Chloride (Water Soluble)	M	2220	g/l	0.010		< 0.010				< 0.010		
Nitrate (Water Soluble)	N	2220	g/l	0.010		< 0.010				< 0.010		
Arsenic	M	2450	mg/kg	1.0	23	11	11	11	10	13	17	17
Cadmium	M	2450	mg/kg	0.10	0.31	0.25	< 0.10	0.16	0.24	0.51	0.33	0.36
Chromium	M	2450	mg/kg	1.0	15	7.3	1.2	34	28	28	53	6.4
Copper	M	2450	mg/kg	0.50	28	6.9	0.76	19	13	19	18	7.0
Mercury	M	2450	mg/kg	0.10	< 0.10	< 0.10	< 0.10	0.15	0.11	0.17	0.11	< 0.10
Nickel	M	2450	mg/kg	0.50	14	7.4	2.2	12	28	25	45	7.2
Lead	M	2450	mg/kg	0.50	45	28	1.8	49	16	51	24	6.4
Selenium	M	2450	mg/kg	0.20	< 0.20	< 0.20	< 0.20	< 0.20	0.45	0.34	0.38	< 0.20
Vanadium	U	2450	mg/kg	5.0	30	18	8.0	28	46	44	74	13
Zinc	M	2450	mg/kg	0.50	65	42	4.7	76	45	78	78	26
Chromium (Hexavalent)	N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total Organic Carbon	M	2625	%	0.20	0.61		< 0.20					
TPH >C6-C8	N	2670	mg/kg	1.0								
TPH >C8-C10	N	2670	mg/kg	1.0								
TPH >C10-C12	N	2670	mg/kg	1.0								
TPH >C12-C16	N	2670	mg/kg	1.0								
TPH >C16-C21	N	2670	mg/kg	1.0								
TPH >C21-C25	N	2670	mg/kg	1.0								
TPH >C25-C35	N	2670	mg/kg	1.0								
TPH >C35-C40	N	2670	mg/kg	1.0								
Total TPH >C6-C40	M	2670	mg/kg	10								
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0		< 1.0				< 1.0		
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0		< 1.0				< 1.0		
Aliphatic TPH >C8-C10	M	2680	mg/kg	1.0		< 1.0				< 1.0		

Results - Soil

Project: 20008J Rybrook, Handy Cross

Client: Discovery CE Ltd			**Chemtest Job No.:**		21-07600	21-07600	21-07600	21-07600	21-07600	21-07600	21-07600	21-07600
Quotation No.: Q21-22554			**Chemtest Sample ID.:**		1157447	1157448	1157449	1157450	1157451	1157452	1157453	1157455
Order No.:			Client Sample Ref.:		1	1	1	1	1	1	1	1
			Client Sample ID.:		TP314	TP314A	TP314A	DS209	DS209	TP316	TP316	TP304
			Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
			Top Depth (m):		0.20	0.20	1.00	0.10	0.50	0.30	1.50	0.40
			Date Sampled:		02-Mar-2021	02-Mar-2021	02-Mar-2021	05-Mar-2021	05-Mar-2021	02-Mar-2021	02-Mar-2021	
			Asbestos Lab:			COVENTRY				COVENTRY		
Determinand	**Accred.**	**SOP**	**Units**	**LOD**								
Aliphatic TPH >C10-C12	M	2680	mg/kg	1.0		< 1.0				< 1.0		
Aliphatic TPH >C12-C16	M	2680	mg/kg	1.0		< 1.0				< 1.0		
Aliphatic TPH >C16-C21	M	2680	mg/kg	1.0		< 1.0				< 1.0		
Aliphatic TPH >C21-C35	M	2680	mg/kg	1.0		< 1.0				< 1.0		
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0		< 1.0				< 1.0		
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0		< 5.0				< 5.0		
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0		< 1.0				< 1.0		
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0		< 1.0				< 1.0		
Aromatic TPH >C8-C10	M	2680	mg/kg	1.0		< 1.0				< 1.0		
Aromatic TPH >C10-C12	M	2680	mg/kg	1.0		< 1.0				< 1.0		
Aromatic TPH >C12-C16	M	2680	mg/kg	1.0		< 1.0				< 1.0		
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0		< 1.0				< 1.0		
Aromatic TPH >C21-C35	M	2680	mg/kg	1.0		< 1.0				< 1.0		
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0		< 1.0				< 1.0		
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0		< 5.0				< 5.0		
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0		< 10				< 10		
Naphthalene	M	2700	mg/kg	0.10		< 0.10				< 0.10		
Acenaphthylene	M	2700	mg/kg	0.10		0.18				< 0.10		
Acenaphthene	M	2700	mg/kg	0.10		0.10				< 0.10		
Fluorene	M	2700	mg/kg	0.10		0.18				< 0.10		
Phenanthrene	M	2700	mg/kg	0.10		0.25				< 0.10		
Anthracene	M	2700	mg/kg	0.10		0.28				< 0.10		
Fluoranthene	M	2700	mg/kg	0.10		1.1				0.25		
Pyrene	M	2700	mg/kg	0.10		1.3				0.29		
Benzo[a]anthracene	M	2700	mg/kg	0.10		0.53				< 0.10		
Chrysene	M	2700	mg/kg	0.10		0.40				< 0.10		
Benzo[b]fluoranthene	M	2700	mg/kg	0.10		0.70				< 0.10		
Benzo[k]fluoranthene	M	2700	mg/kg	0.10		0.25				< 0.10		
Benzo[a]pyrene	M	2700	mg/kg	0.10		0.68				< 0.10		
Indeno(1,2,3-c,d)Pyrene	M	2700	mg/kg	0.10		< 0.10				< 0.10		
Dibenz(a,h)Anthracene	M	2700	mg/kg	0.10		< 0.10				< 0.10		
Benzo[g,h,i]perylene	M	2700	mg/kg	0.10		< 0.10				< 0.10		
Total Of 16 PAH's	M	2700	mg/kg	2.0		6.0				< 2.0		
Benzene	M	2760	µg/kg	1.0		< 1.0				< 1.0		
Toluene	M	2760	µg/kg	1.0		< 1.0				< 1.0		
Ethylbenzene	M	2760	µg/kg	1.0		< 1.0				< 1.0		
m & p-Xylene	M	2760	µg/kg	1.0		< 1.0				< 1.0		
o-Xylene	M	2760	µg/kg	1.0		< 1.0				< 1.0		

Results - Soil

Project: 20008J Rybrook, Handy Cross

Client: Discovery CE Ltd			**Chemtest Job No.:**		21-07600	21-07600	21-07600	21-07600	21-07600	21-07600	21-07600	21-07600
Quotation No.: Q21-22554			**Chemtest Sample ID.:**		1157447	1157448	1157449	1157450	1157451	1157452	1157453	1157455
Order No.:			Client Sample Ref.:		1	1	1	1	1	1	1	1
			Client Sample ID.:		TP314	TP314A	TP314A	DS209	DS209	TP316	TP316	TP304
			Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
			Top Depth (m):		0.20	0.20	1.00	0.10	0.50	0.30	1.50	0.40
			Date Sampled:		02-Mar-2021	02-Mar-2021	02-Mar-2021	05-Mar-2021	05-Mar-2021	02-Mar-2021	02-Mar-2021	
			Asbestos Lab:			COVENTRY				COVENTRY		
Determinand	**Accred.**	**SOP**	**Units**	**LOD**								
Methyl Tert-Butyl Ether	M	2760	µg/kg	1.0		< 1.0				< 1.0		

Deviations

In accordance with UKAS Policy on Deviating Samples TPS 63. Chemtest have a procedure to ensure 'upon receipt of each sample a competent laboratory shall assess whether the sample is suitable with regard to the requested test(s)'. This policy and the respective holding times applied, can be supplied upon request.The reason a sample is declared as deviating is detailed below. Where applicable the analysis remains UKAS/MCERTs accredited but the results may be compromised.

Sample:	Sample Ref:	Sample ID:	Sample Location:	Sampled Date:	Deviation Code(s):	Containers Received:
1157444	1	TP310		03-Mar-2021	C	Plastic Tub 500g

Test Methods

SOP	Title	Parameters included	Method summary
2010	pH Value of Soils	pH	pH Meter
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <37°C.
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930
2120	Water Soluble Boron, Sulphate, Magnesium & Chromium	Boron; Sulphate; Magnesium; Chromium	Aqueous extraction / ICP-OES
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry
2220	Water soluble Chloride in Soils	Chloride	Aqueous extraction and measuremernt by 'Aquakem 600' Discrete Analyser using ferric nitrate / mercuric thiocyanate.
2450	Acid Soluble Metals in Soils	Metals, including: Arsenic; Barium; Beryllium; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Vanadium; Zinc	Acid digestion followed by determination of metals in extract by ICP-MS.
2490	Hexavalent Chromium in Soils	Chromium [VI]	Soil extracts are prepared by extracting dried and ground soil samples into boiling water. Chromium [VI] is determined by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazide.
2625	Total Organic Carbon in Soils	Total organic Carbon (TOC)	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.
2670	Total Petroleum Hydrocarbons (TPH) in Soils by GC-FID	TPH (C6–C40); optional carbon banding, e.g. 3-band – GRO, DRO & LRO*TPH C8–C40	Dichloromethane extraction / GC-FID
2680	TPH A/A Split	Aliphatics: >C5–C6, >C6–C8,>C8–C10, >C10–C12, >C12–C16, >C16–C21, >C21–C35, >C35– C44Aromatics: >C5–C7, >C7–C8, >C8– C10, >C10–C12, >C12–C16, >C16– C21, >C21– C35, >C35– C44	Dichloromethane extraction / GCxGC FID detection
2700	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-FID	Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenz[ah]Anthracene; Fluoranthene; Fluorene; Indeno[123cd]Pyrene; Naphthalene; Phenanthrene; Pyrene	Dichloromethane extraction / GC-FID (GC-FID detection is non-selective and can be subject to interference from co-eluting compounds)
2760	Volatile Organic Compounds (VOCs) in Soils by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics.(cf. USEPA Method 8260)*please refer to UKAS schedule	Automated headspace gas chromatographic (GC) analysis of a soil sample, as received, with mass spectrometric (MS) detection of volatile organic compounds.

Report Information

Key	
U	UKAS accredited
M	MCERTS and UKAS accredited
N	Unaccredited
S	This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
SN	This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
T	This analysis has been subcontracted to an unaccredited laboratory
I/S	Insufficient Sample
U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"
SOP	Standard operating procedure
LOD	Limit of detection

Comments or interpretations are beyond the scope of UKAS accreditation
The results relate only to the items tested
Uncertainty of measurement for the determinands tested are available upon request
None of the results in this report have been recovery corrected
All results are expressed on a dry weight basis

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

For all other tests the samples were dried at < 37°C prior to analysis
All Asbestos testing is performed at the indicated laboratory
Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1

Sample Deviation Codes

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

Sample Retention and Disposal

All soil samples will be retained for a period of 45 days from the date of receipt
All water samples will be retained for 14 days from the date of receipt
Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.com

APPENDIX G - RISK ASSESSMENT DETAIL

CHEMICAL SCREENING CRITERIA

Rationale

For the protection of human health, screening criteria were selected from published generic assessment criteria (GACs) either S4ULs or C4SLs as published by LQM/CIEH and DEFRA respectively. GAC values are selected based on the soil organic matter (SOM) content of the soils concerned. Currently generic criteria are published for SOM of 1, 2.5 or 6 %. Tests undertaken during the DCE works showed a total organic carbon content of between <0.1 and 2.6 % with a mean value of 0.747%. The corresponding SOM were a minimum of <0.17 % a maximum of 4.48 % and a mean of 1.3 %. Therefore, the SOM value of 1 % was adopted as a conservative value for the screening assessment. The possible generic end use scenario considered in the assessment of risks to long term human health was Commercial (COMM). This scenario was chosen due to the understanding that the development will not include residential properties and will be commercial based.

The COMM scenario is defined as a standard end use within the LQM/CIEH S4UL and C4SL Human Health Risk Assessment guidance which were developed in line with the CLEA model.

This assessment used Suitable For Use levels (S4ULs) as published by LQM/CIEH whenever possible as the most up to date GACs. The S4ULs were used under licence, (Copyright Land Quality Management Limited, reproduced with permission; publication number S4UL3396. All rights reserved). It should be noted that S4UL values calculated for threshold substances represent a concentration in soils below which the risk to human health is **NEGLIGIBLE**. For non-threshold substances concentrations in soil less than the S4UL values represent a **MINIMAL** risk

Also, Category 4 Screening Levels (C4SLs) were used as published by DEFRA/CL:AIRE, specifically for lead (Pb). The EIC/AGS/CL:AIRE value was used to screen barium.

Concentrations of determinands in water samples were screened against UK environmental quality standards (EQS) or UK drinking water standards (DWS). In the absence of EQS or DWS, World Health Organisation (WHO) or USEPA Region 9 screening criteria were used.

It may become evident following further investigation and analysis that additional COCs come to light that were not present in the current list which may require screening criteria to be applied. If so, additional criteria shall be selected/derived and submitted to the regulators for comment and agreement.

The screening criteria used for human health assessment are presented below in Table G1 with the summary of results presented in Table G2 and full details appended..

Table G1 Human Health Generic Screening Criteria at 1% SOM for COMM

Determinand	Units	Commercial 1 % SOM	Screen Source
Asbestos in Soil	Type	Presence	CAR 2012
Naphthalene	mg/kg	190	S4UL
Acenaphthylene	mg/kg	83000	S4UL
Acenaphthene	mg/kg	84000	S4UL
Fluorene	mg/kg	63000	S4UL
Phenanthrene	mg/kg	22000	S4UL
Anthracene	mg/kg	520000	S4UL
Fluoranthene	mg/kg	23000	S4UL
Pyrene	mg/kg	54000	S4UL
Benzo(a)anthracene	mg/kg	170	S4UL
Chrysene	mg/kg	350	S4UL
Benzo(b)fluoranthene	mg/kg	44	S4UL
Benzo(k)fluoranthene	mg/kg	1200	S4UL
Benzo(a)pyrene	mg/kg	35	S4UL
Indeno(1,2,3-cd)pyrene	mg/kg	500	S4UL
Dibenz(a,h)anthracene	mg/kg	3.5	S4UL
Benzo(ghi)perylene	mg/kg	3900	S4UL
Arsenic	mg/kg	640	S4UL
Cadmium	mg/kg	190	S4UL
Chromium (hexavalent)	mg/kg	33	S4UL
Chromium	mg/kg	8600	S4UL
Copper	mg/kg	68000	S4UL
Lead	mg/kg	2300	C4SL
Mercury	mg/kg	1100	S4UL
Nickel	mg/kg	980	S4UL
Selenium	mg/kg	12000	S4UL
Vanadium	mg/kg	9000	S4UL
Zinc	mg/kg	730000	S4UL
Benzene	µg/kg	27000	S4UL
Toluene	µg/kg	56000000	S4UL
Ethylbenzene	µg/kg	5700000	S4UL
p & m-xylene	µg/kg	5900000	S4UL
o-xylene	µg/kg	6600000	S4UL
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	7900000	EIC/AGS/CL:AIRE
Aliphatic >EC5 - EC6	mg/kg	3200	S4UL
Aliphatic >EC6 - EC8	mg/kg	7800	S4UL
Aliphatic >EC8 - EC10	mg/kg	2000	S4UL
Aliphatic >EC10 - EC12	mg/kg	9700	S4UL
Aliphatic >EC12 - EC16	mg/kg	59000	S4UL
Aliphatic >EC16 - EC21	mg/kg	1600000	S4UL
Aliphatic >EC21 - EC35	mg/kg	1600000	S4UL
Aliphatic >EC35 - EC44	mg/kg	1600000	S4UL
Aromatic >EC5 - EC7	mg/kg	26000	S4UL
Aromatic >EC7 - EC8	mg/kg	56000	S4UL
Aromatic >EC8 - EC10	mg/kg	3500	S4UL
Aromatic >EC10 - EC12	mg/kg	16000	S4UL
Aromatic >EC12 - EC16	mg/kg	36000	S4UL
Aromatic >EC16 - EC21	mg/kg	28000	S4UL
Aromatic >EC21 - EC35	mg/kg	28000	S4UL
Aromatic >EC35 - EC44	mg/kg	28000	S4UL

HUMAN HEALTH ASSESSMENT

Table G2 Soil Screening Results

Determinand	Units	Minimum	Mean	Maximum	Count	1% SOM	Commercial	Screen Source	No. Exceeding Screen
Asbestos in Soil	Type	ND	ND	ND	12		Presence	CAR 2012	0
Naphthalene	mg/kg	0.1	0.1	0.1	14		190	S4UL	0
Acenaphthylene	mg/kg	0.1	0.1057	0.18	14		83000	S4UL	0
Acenaphthene	mg/kg	0.1	0.1007	0.11	14		84000	S4UL	0
Fluorene	mg/kg	0.1	0.1164	0.24	14		63000	S4UL	0
Phenanthrene	mg/kg	0.1	0.2621	1.2	14		22000	S4UL	0
Anthracene	mg/kg	0.1	0.1457	0.43	14		520000	S4UL	0
Fluoranthene	mg/kg	0.1	0.51	2.1	14		23000	S4UL	0
Pyrene	mg/kg	0.1	0.5029	1.7	14		54000	S4UL	0
Benzo(a)anthracene	mg/kg	0.1	0.285	1	14		170	S4UL	0
Chrysene	mg/kg	0.1	0.3079	1.2	14		350	S4UL	0
Benzo(b)fluoranthene	mg/kg	0.1	0.3079	1.7	14		44	S4UL	0
Benzo(k)fluoranthene	mg/kg	0.1	0.1657	0.72	14		1200	S4UL	0
Benzo(a)pyrene	mg/kg	0.1	0.245	1.1	14		35	S4UL	0
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	0.1964	1.1	14		500	S4UL	0
Dibenz(a,h)anthracene	mg/kg	0.1	0.15	0.58	14		3.5	S4UL	0
Benzo(ghi)perylene	mg/kg	0.1	0.1821	0.85	14		3900	S4UL	0
Arsenic	mg/kg	5	13.593	44	44		640	S4UL	0
Cadmium	mg/kg	0.1	0.2818	3.3	44		190	S4UL	0
Chromium (hexavalent)	mg/kg	0.5	0.5	0.5	44		33	S4UL	0
Chromium	mg/kg	1	14	53	44		8600	S4UL	0
Copper	mg/kg	0.5	9.7186	60	44		68000	S4UL	0
Lead	mg/kg	0.5	16.301	120	44		2300	C4SL	0
Mercury	mg/kg	0.1	0.1084	0.21	44		1100	S4UL	0
Nickel	mg/kg	1.3	13.83	56	44		980	S4UL	0
Selenium	mg/kg	0.2	0.2689	1.3	44		12000	S4UL	0
Vanadium	mg/kg	5	24.684	79	44		9000	S4UL	0
Zinc	mg/kg	2.7	35.398	130	44		730000	S4UL	0
Benzene	µg/kg	1	1	1	9		27000	S4UL	0
Toluene	µg/kg	1	1	1	9		56000000	S4UL	0
Ethylbenzene	µg/kg	1	1	1	9		5700000	S4UL	0
p & m-xylene	µg/kg	1	1	1	9		5900000	S4UL	0
o-xylene	µg/kg	1	1	1	9		6600000	S4UL	0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	1	1	9		7900000	EIC/AGS/CL:AIRE	0
Aliphatic >EC5 - EC6	mg/kg	1	1	1	9		3200	S4UL	0
Aliphatic >EC6 - EC8	mg/kg	1	1	1	9		7800	S4UL	0
Aliphatic >EC8 - EC10	mg/kg	1	1	1	9		2000	S4UL	0
Aliphatic >EC10 - EC12	mg/kg	1	1	1	9		9700	S4UL	0
Aliphatic >EC12 - EC16	mg/kg	1	1	1	9		59000	S4UL	0
Aliphatic >EC16 - EC21	mg/kg	1	1	1	9		1600000	S4UL	0
Aliphatic >EC21 - EC35	mg/kg	1	1	1	9		1600000	S4UL	0
Aliphatic >EC35 - EC44	mg/kg	1	1	1	9		1600000	S4UL	0
Aromatic >EC5 - EC7	mg/kg	1	1	1	9		26000	S4UL	0
Aromatic >EC7 - EC8	mg/kg	1	1	1	9		56000	S4UL	0
Aromatic >EC8 - EC10	mg/kg	1	1	1	9		3500	S4UL	0
Aromatic >EC10 - EC12	mg/kg	1	1	1	9		16000	S4UL	0
Aromatic >EC12 - EC16	mg/kg	1	1	1	9		36000	S4UL	0
Aromatic >EC16 - EC21	mg/kg	1	1	1	9		28000	S4UL	0
Aromatic >EC21 - EC35	mg/kg	1	1	1	9		28000	S4UL	0

Aromatic >EC35 - EC44	mg/kg	1	1	1	9		28000	S4UL	0

No determinands exceeded their relevant COMM GAC. Therefore, the risk to human health from soils at the site for a proposed commercial end use are **NEGLIGABLE/MINIMAL**. No further assessment is required. No remediation is required.

CONTROLLED WATERS ASSESSMENT

Chemical testing on soils has revealed generally very low concentrations of chemical determinands at the site and no significant sources or potential sources of contamination have been identified either during the Phase 1 Desk study or intrusive works at the site. Additionally, whilst a Principal aquifer underlies the site, this is largely (although not always) overlain by clay with flints deposits (protective of the aquifer) and groundwater is at a depth in excess of 20 m below existing ground level (no groundwater was encountered to this depth during the works and subsequent monitoring).

Given these various factors the risk to controlled waters from the low concentrations of determinands recorded at the site is considered to be **VERY LOW** and no further action is considered necessary>

UNFORSEEN CONTAMINATION

Should any suspected contamination be identified during site enabling or redevelopment works, further investigation, testing and assessment should be carried out to determine if any additional action or remediation is required.

Analytical Report Number: 20-32825
Project / Site name: Handy Cross High Wycombe

Lab Sample Number									
Sample Reference									
Depth (m)									
Determinand	**Units**	**Minimum**	**Mean**	**Maximum**	**Count**	**1% SOM**	**Commercial**	**Screen Source**	**No. Exceeding Screen**
Asbestos in Soil	Type	ND	ND	ND	12		Presence	CAR 2012	0
Naphthalene	mg/kg	0.1	0.1	0.1	14		190	S4UL	0
Acenaphthylene	mg/kg	0.1	0.10571	0.18	14		83000	S4UL	0
Acenaphthene	mg/kg	0.1	0.10071	0.11	14		84000	S4UL	0
Fluorene	mg/kg	0.1	0.11643	0.24	14		63000	S4UL	0
Phenanthrene	mg/kg	0.1	0.26214	1.2	14		22000	S4UL	0
Anthracene	mg/kg	0.1	0.14571	0.43	14		520000	S4UL	0
Fluoranthene	mg/kg	0.1	0.51	2.1	14		23000	S4UL	0
Pyrene	mg/kg	0.1	0.50286	1.7	14		54000	S4UL	0
Benzo(a)anthracene	mg/kg	0.1	0.285	1	14		170	S4UL	0
Chrysene	mg/kg	0.1	0.30786	1.2	14		350	S4UL	0
Benzo(b)fluoranthene	mg/kg	0.1	0.30786	1.7	14		44	S4UL	0
Benzo(k)fluoranthene	mg/kg	0.1	0.16571	0.72	14		1200	S4UL	0
Benzo(a)pyrene	mg/kg	0.1	0.245	1.1	14		35	S4UL	0
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	0.19643	1.1	14		500	S4UL	0
Dibenz(a,h)anthracene	mg/kg	0.1	0.15	0.58	14		3.5	S4UL	0
Benzo(ghi)perylene	mg/kg	0.1	0.18214	0.85	14		3900	S4UL	0
Arsenic	mg/kg	5	13.5932	44	44		640	S4UL	0
Cadmium	mg/kg	0.1	0.28182	3.3	44		190	S4UL	0
Chromium (hexavalent)	mg/kg	0.5	0.5	0.5	44		33	S4UL	0
Chromium	mg/kg	1	14	53	44		8600	S4UL	0
Copper	mg/kg	0.5	9.71864	60	44		68000	S4UL	0
Lead	mg/kg	0.5	16.3007	120	44		2300	C4SL	0
Mercury	mg/kg	0.1	0.10841	0.21	44		1100	S4UL	0
Nickel	mg/kg	1.3	13.8295	56	44		980	S4UL	0
Selenium	mg/kg	0.2	0.26886	1.3	44		12000	S4UL	0
Vanadium	mg/kg	5	24.6841	79	44		9000	S4UL	0
Zinc	mg/kg	2.7	35.3977	130	44		730000	S4UL	0
Benzene	µg/kg	1	1	1	9		27000	S4UL	0
Toluene	µg/kg	1	1	1	9		56000000	S4UL	0
Ethylbenzene	µg/kg	1	1	1	9		5700000	S4UL	0
p & m-xylene	µg/kg	1	1	1	9		5900000	S4UL	0
o-xylene	µg/kg	1	1	1	9		6600000	S4UL	0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	1	1	9		7900000	EIC/AGS/CL:AIRE	0
Aliphatic >EC5 - EC6	mg/kg	1	1	1	9		3200	S4UL	0
Aliphatic >EC6 - EC8	mg/kg	1	1	1	9		7800	S4UL	0
Aliphatic >EC8 - EC10	mg/kg	1	1	1	9		2000	S4UL	0
Aliphatic >EC10 - EC12	mg/kg	1	1	1	9		9700	S4UL	0
Aliphatic >EC12 - EC16	mg/kg	1	1	1	9		59000	S4UL	0
Aliphatic >EC16 - EC21	mg/kg	1	1	1	9		1600000	S4UL	0
Aliphatic >EC21 - EC35	mg/kg	1	1	1	9		1600000	S4UL	0
Aliphatic >EC35 - EC44	mg/kg	1	1	1	9		1600000	S4UL	0
Aromatic >EC5 - EC7	mg/kg	1	1	1	9		26000	S4UL	0
Aromatic >EC7 - EC8	mg/kg	1	1	1	9		56000	S4UL	0
Aromatic >EC8 - EC10	mg/kg	1	1	1	9		3500	S4UL	0
Aromatic >EC10 - EC12	mg/kg	1	1	1	9		16000	S4UL	0
Aromatic >EC12 - EC16	mg/kg	1	1	1	9		36000	S4UL	0
Aromatic >EC16 - EC21	mg/kg	1	1	1	9		28000	S4UL	0
Aromatic >EC21 - EC35	mg/kg	1	1	1	9		28000	S4UL	0
Aromatic >EC35 - EC44	mg/kg	1	1	1	9		28000	S4UL	0

Analytical Report Number: 20-32825
Project / Site name: Handy Cross High Wycombe

Lab Sample Number										1157411	1157412	1157413	1157414	1157415	1157416	1157417	1157418	1157419	1157420	1157421	1157422	1157423	1157424	1157425	1157426	1157427	1157428	1157429	1157430	1157431	1157432	1157433
Sample Reference										BH101	BH101	BH102	BH102	BH103	BH103	BH104	BH104	BH104	BH105	BH105	BH106	BH106	DS201	DS202	DS202	DS203	DS203	DS204	DS205	DS206	DS207	DS208
Depth (m)										0.5	2.5	0.5	7.5	0.5	5.5	0.5	2.5	9	0.5	2	0.5	2	1.4	0.7	1.2	0.2	1.8	1.4	1.2	0.3	2.5	0.45
Determinand	Units	Minimum	Mean	Maximum	Count	1% SOM	Commercial	Screen Source	No. Exceeding Screen																							
Asbestos in Soil	Type	ND	ND	ND	12		Presence	CAR 2012	0										Not Detected							Not Detected		Not Detected				Not Detected
Naphthalene	mg/kg	0.1	0.1	0.1	14		190	S4UL	0	< 0.10		< 0.10		< 0.10		< 0.10			< 0.10		< 0.10										
Acenaphthylene	mg/kg	0.1	0.10571	0.18	14		83000	S4UL	0	< 0.10		< 0.10		< 0.10		< 0.10			< 0.10		< 0.10										
Acenaphthene	mg/kg	0.1	0.10071	0.11	14		84000	S4UL	0	< 0.10		< 0.10		< 0.10		< 0.10			< 0.10		< 0.10										
Fluorene	mg/kg	0.1	0.11643	0.24	14		63000	S4UL	0	< 0.10		< 0.10		< 0.10		< 0.10			0.24		< 0.10										
Phenanthrene	mg/kg	0.1	0.26214	1.2	14		22000	S4UL	0	< 0.10		< 0.10		< 0.10		< 0.10			0.61		< 0.10										
Anthracene	mg/kg	0.1	0.14571	0.43	14		520000	S4UL	0	< 0.10		< 0.10		< 0.10		< 0.10			0.23		< 0.10										
Fluoranthene	mg/kg	0.1	0.51	2.1	14		23000	S4UL	0	< 0.10		< 0.10		< 0.10		< 0.10			0.91		< 0.10										
Pyrene	mg/kg	0.1	0.50286	1.7	14		54000	S4UL	0	< 0.10		< 0.10		< 0.10		< 0.10			0.88		< 0.10										
Benzo(a)anthracene	mg/kg	0.1	0.285	1	14		170	S4UL	0	< 0.10		< 0.10		< 0.10		< 0.10			0.57		< 0.10										
Chrysene	mg/kg	0.1	0.30786	1.2	14		350	S4UL	0	< 0.10		< 0.10		< 0.10		< 0.10			0.75		< 0.10										
Benzo(b)fluoranthene	mg/kg	0.1	0.30786	1.7	14		44	S4UL	0	< 0.10		< 0.10		< 0.10		< 0.10			0.81		< 0.10										
Benzo(k)fluoranthene	mg/kg	0.1	0.16571	0.72	14		1200	S4UL	0	< 0.10		< 0.10		< 0.10		< 0.10			0.25		< 0.10										
Benzo(a)pyrene	mg/kg	0.1	0.245	1.1	14		35	S4UL	0	< 0.10		< 0.10		< 0.10		< 0.10			0.55		< 0.10										
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	0.19643	1.1	14		500	S4UL	0	< 0.10		< 0.10		< 0.10		< 0.10			0.45		< 0.10										
Dibenz(a,h)anthracene	mg/kg	0.1	0.15	0.58	14		3.5	S4UL	0	< 0.10		< 0.10		< 0.10		< 0.10			0.32		< 0.10										
Benzo(ghi)perylene	mg/kg	0.1	0.18214	0.85	14		3900	S4UL	0	< 0.10		< 0.10		< 0.10		< 0.10			0.50		< 0.10										
Arsenic	mg/kg	5	13.5932	44	44		640	S4UL	0	16.00	6.80	13.00	12.00	9.90	13.00	11.00	11.00	9.10	11.00	11.00	19.00	10.00	10.00	21.00	11.00	14.00	11.00	15.00	13.00	14.00	12.00	10.00
Cadmium	mg/kg	0.1	0.28182	3.3	44		190	S4UL	0	0.23	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.26	< 0.10	< 0.10	0.35	0.13	0.43	0.12	0.15	0.36	0.11	0.18	0.13	0.10	0.12	0.27	0.14	3.30
Chromium (hexavalent)	mg/kg	0.5	0.5	0.5	44		33	S4UL	0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Chromium	mg/kg	1	14	53	44		8600	S4UL	0	44.00	1.00	2.70	1.40	2.40	1.10	14.00	1.40	< 1.0	19.00	4.20	30.00	1.40	5.70	50.00	3.10	12.00	1.00	20.00	4.10	19.00	< 1.0	11.00
Copper	mg/kg	0.5	9.71864	60	44		68000	S4UL	0	21.00	0.84	1.60	1.60	1.00	0.98	10.00	0.95	0.70	13.00	< 0.50	13.00	< 0.50	0.97	18.00	< 0.50	17.00	< 0.50	7.40	< 0.50	7.80	< 0.50	12.00
Lead	mg/kg	0.5	16.3007	120	44		2300	C4SL	0	28.00	1.10	2.00	1.50	1.10	1.10	22.00	1.40	0.71	33.00	1.10	59.00	0.72	2.40	19.00	1.40	16.00	< 0.50	12.00	1.40	18.00	< 0.50	12.00
Mercury	mg/kg	0.1	0.10841	0.21	44		1100	S4UL	0	0.12	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.10	< 0.10	0.16	< 0.10	< 0.10	0.21	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Nickel	mg/kg	1.3	13.8295	56	44		980	S4UL	0	44.00	1.70	3.50	3.10	2.40	2.40	14.00	2.20	1.30	19.00	4.70	28.00	1.80	5.30	56.00	3.40	11.00	2.20	13.00	3.90	20.00	2.00	10.00
Selenium	mg/kg	0.2	0.26886	1.3	44		12000	S4UL	0	0.60	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	0.27	< 0.20	< 0.20	< 0.20	< 0.20	0.87	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Vanadium	mg/kg	5	24.6841	79	44		9000	S4UL	0	70.00	< 5.0	7.10	6.00	6.30	5.40	24.00	5.50	< 5.0	31.00	5.10	49.00	< 5.0	10.00	79.00	6.80	21.00	< 5.0	30.00	8.80	34.00	< 5.0	17.00
Zinc	mg/kg	2.7	35.3977	130	44		730000	S4UL	0	72.00	2.70	5.00	5.10	3.40	5.80	36.00	4.70	4.10	49.00	6.00	55.00	4.00	12.00	80.00	7.00	110.00	4.40	55.00	7.70	30.00	4.50	130.00
Benzene	µg/kg	1	1	1	9		27000	S4UL	0										< 1.0												
Toluene	µg/kg	1	1	1	9		56000000	S4UL	0										< 1.0												
Ethylbenzene	µg/kg	1	1	1	9		5700000	S4UL	0										< 1.0												
p & m-xylene	µg/kg	1	1	1	9		5900000	S4UL	0										< 1.0												
o-xylene	µg/kg	1	1	1	9		6600000	S4UL	0										< 1.0												
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	1	1	9		7900000	EIC/AGS/CL:AIRE	0										< 1.0												
Aliphatic >EC5 - EC6	mg/kg	1	1	1	9		3200	S4UL	0										< 1.0												
Aliphatic >EC6 - EC8	mg/kg	1	1	1	9		7800	S4UL	0										< 1.0												
Aliphatic >EC8 - EC10	mg/kg	1	1	1	9		2000	S4UL	0										< 1.0												
Aliphatic >EC10 - EC12	mg/kg	1	1	1	9		9700	S4UL	0										< 1.0												
Aliphatic >EC12 - EC16	mg/kg	1	1	1	9		59000	S4UL	0										< 1.0												
Aliphatic >EC16 - EC21	mg/kg	1	1	1	9		1600000	S4UL	0										< 1.0												
Aliphatic >EC21 - EC35	mg/kg	1	1	1	9		1600000	S4UL	0										< 1.0												
Aliphatic >EC35 - EC44	mg/kg	1	1	1	9		1600000	S4UL	0										< 1.0												
Aromatic >EC5 - EC7	mg/kg	1	1	1	9		26000	S4UL	0										< 1.0												
Aromatic >EC7 - EC8	mg/kg	1	1	1	9		56000	S4UL	0										< 1.0												
Aromatic >EC8 - EC10	mg/kg	1	1	1	9		3500	S4UL	0										< 1.0												
Aromatic >EC10 - EC12	mg/kg	1	1	1	9		16000	S4UL	0										< 1.0												
Aromatic >EC12 - EC16	mg/kg	1	1	1	9		36000	S4UL	0										< 1.0												
Aromatic >EC16 - EC21	mg/kg	1	1	1	9		28000	S4UL	0										< 1.0												
Aromatic >EC21 - EC35	mg/kg	1	1	1	9		28000	S4UL	0										< 1.0												
Aromatic >EC35 - EC44	mg/kg	1	1	1	9		28000	S4UL	0										< 1.0												

Analytical Report Number: 20-32825
Project / Site name: Handy Cross High Wycombe

Lab Sample Number										1157434	1157435	1157436	1157437	1157438	1157439	1157440	1157441	1157442	1157443	1157444	1157445	1157446	1157447	1157448	1157449	1157450	1157451	1157452	1157453	1157455
Sample Reference										TP302	TP302	TP304	TP305	TP305	TP306	DS210	DS210	TP308	TP309	TP310	TP312	TP312	TP314	TP314A	TP314A	DS209	DS209	TP316	TP316	TP304
Depth (m)										0.1	1.6	2	0.3	0.9	1	0.1	0.6	1.6	0.8	0.5	0.6	2	0.2	0.2	1	0.1	0.5	0.3	1.5	0.4
Determinand	Units	Minimum	Mean	Maximum	Count	1% SOM	Commercial	Screen Source	No. Exceeding Screen																					
Asbestos in Soil	Type	ND	ND	ND	12		Presence	CAR 2012	0	Not Detected			Not Detected			Not Detected			Not Detected	Not Detected	Not Detected			Not Detected				Not Detected		
Naphthalene	mg/kg	0.1	0.1	0.1	14		190	S4UL	0	< 0.10			< 0.10			< 0.10			< 0.10	< 0.10	< 0.10			< 0.10				< 0.10		
Acenaphthylene	mg/kg	0.1	0.10571	0.18	14		83000	S4UL	0	< 0.10			< 0.10			< 0.10			< 0.10	< 0.10	< 0.10			0.18				< 0.10		
Acenaphthene	mg/kg	0.1	0.10071	0.11	14		84000	S4UL	0	0.11			< 0.10			< 0.10			< 0.10	< 0.10	< 0.10			0.10				< 0.10		
Fluorene	mg/kg	0.1	0.11643	0.24	14		63000	S4UL	0	0.11			< 0.10			< 0.10			< 0.10	< 0.10	< 0.10			0.18				< 0.10		
Phenanthrene	mg/kg	0.1	0.26214	1.2	14		22000	S4UL	0	1.20			< 0.10			0.61			< 0.10	< 0.10	< 0.10			0.25				< 0.10		
Anthracene	mg/kg	0.1	0.14571	0.43	14		520000	S4UL	0	0.43			< 0.10			< 0.10			< 0.10	< 0.10	< 0.10			0.28				< 0.10		
Fluoranthene	mg/kg	0.1	0.51	2.1	14		23000	S4UL	0	2.10			0.28			1.70			< 0.10	< 0.10	< 0.10			1.10				0.25		
Pyrene	mg/kg	0.1	0.50286	1.7	14		54000	S4UL	0	1.70			0.37			1.70			< 0.10	< 0.10	< 0.10			1.30				0.29		
Benzo(a)anthracene	mg/kg	0.1	0.285	1	14		170	S4UL	0	1.00			< 0.10			0.89			< 0.10	< 0.10	< 0.10			0.53				< 0.10		
Chrysene	mg/kg	0.1	0.30786	1.2	14		350	S4UL	0	1.20			< 0.10			0.96			< 0.10	< 0.10	< 0.10			0.40				< 0.10		
Benzo(b)fluoranthene	mg/kg	0.1	0.30786	1.7	14		44	S4UL	0	< 0.10			< 0.10			1.70			< 0.10	< 0.10	< 0.10			0.70				< 0.10		
Benzo(k)fluoranthene	mg/kg	0.1	0.16571	0.72	14		1200	S4UL	0	< 0.10			< 0.10			0.72			< 0.10	< 0.10	< 0.10			0.25				< 0.10		
Benzo(a)pyrene	mg/kg	0.1	0.245	1.1	14		35	S4UL	0	< 0.10			< 0.10			1.10			< 0.10	< 0.10	< 0.10			0.68				< 0.10		
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	0.19643	1.1	14		500	S4UL	0	< 0.10			< 0.10			1.10			< 0.10	< 0.10	< 0.10			< 0.10				< 0.10		
Dibenz(a,h)anthracene	mg/kg	0.1	0.15	0.58	14		3.5	S4UL	0	< 0.10			< 0.10			0.58			< 0.10	< 0.10	< 0.10			< 0.10				< 0.10		
Benzo(ghi)perylene	mg/kg	0.1	0.18214	0.85	14		3900	S4UL	0	< 0.10			< 0.10			0.85			< 0.10	< 0.10	< 0.10			< 0.10				< 0.10		
Arsenic	mg/kg	5	13.5932	44	44		640	S4UL	0	44.00	9.70	13.00	5.60	13.00	15.00	5.00	14.00	18.00	11.00	18.00	23.00	12.00	23.00	11.00	11.00	11.00	10.00	13.00	17.00	17.00
Cadmium	mg/kg	0.1	0.28182	3.3	44		190	S4UL	0	0.44	0.20	0.11	< 0.10	0.39	0.13	< 0.10	0.27	0.19	0.59	0.18	0.26	< 0.10	0.31	0.25	< 0.10	0.16	0.24	0.51	0.33	0.36
Chromium (hexavalent)	mg/kg	0.5	0.5	0.5	44		33	S4UL	0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Chromium	mg/kg	1	14	53	44		8600	S4UL	0	13.00	16.00	4.30	12.00	39.00	3.10	8.40	15.00	3.50	35.00	14.00	28.00	1.30	15.00	7.30	1.20	34.00	28.00	28.00	53.00	6.40
Copper	mg/kg	0.5	9.71864	60	44		68000	S4UL	0	9.30	5.50	< 0.50	46.00	13.00	< 0.50	60.00	9.50	1.00	24.00	5.10	10.00	0.72	28.00	6.90	0.76	19.00	13.00	19.00	18.00	7.00
Lead	mg/kg	0.5	16.3007	120	44		2300	C4SL	0	120.00	13.00	1.80	23.00	17.00	1.20	19.00	19.00	3.70	20.00	7.40	14.00	1.00	45.00	28.00	1.80	49.00	16.00	51.00	24.00	6.40
Mercury	mg/kg	0.1	0.10841	0.21	44		1100	S4UL	0	< 0.10	< 0.10	< 0.10	< 0.10	0.14	< 0.10	< 0.10	< 0.10	< 0.10	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.15	0.11	0.17	0.11	< 0.10
Nickel	mg/kg	1.3	13.8295	56	44		980	S4UL	0	12.00	18.00	4.40	12.00	56.00	3.30	9.50	15.00	4.70	35.00	15.00	26.00	1.90	14.00	7.40	2.20	12.00	28.00	25.00	45.00	7.20
Selenium	mg/kg	0.2	0.26886	1.3	44		12000	S4UL	0	0.33	< 0.20	< 0.20	< 0.20	1.30	< 0.20	< 0.20	< 0.20	< 0.20	0.29	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	0.45	0.34	0.38	< 0.20
Vanadium	mg/kg	5	24.6841	79	44		9000	S4UL	0	28.00	28.00	9.30	58.00	60.00	6.90	26.00	27.00	7.30	54.00	28.00	44.00	7.60	30.00	18.00	8.00	28.00	46.00	44.00	74.00	13.00
Zinc	mg/kg	2.7	35.3977	130	44		730000	S4UL	0	67.00	27.00	7.50	49.00	53.00	6.70	41.00	31.00	11.00	91.00	23.00	38.00	4.20	65.00	42.00	4.70	76.00	45.00	78.00	78.00	26.00
Benzene	µg/kg	1	1	1	9		27000	S4UL	0	< 1.0			< 1.0			< 1.0			< 1.0	< 1.0	< 1.0			< 1.0				< 1.0		
Toluene	µg/kg	1	1	1	9		56000000	S4UL	0	< 1.0			< 1.0			< 1.0			< 1.0	< 1.0	< 1.0			< 1.0				< 1.0		
Ethylbenzene	µg/kg	1	1	1	9		5700000	S4UL	0	< 1.0			< 1.0			< 1.0			< 1.0	< 1.0	< 1.0			< 1.0				< 1.0		
p & m-xylene	µg/kg	1	1	1	9		5900000	S4UL	0	< 1.0			< 1.0			< 1.0			< 1.0	< 1.0	< 1.0			< 1.0				< 1.0		
o-xylene	µg/kg	1	1	1	9		6600000	S4UL	0	< 1.0			< 1.0			< 1.0			< 1.0	< 1.0	< 1.0			< 1.0				< 1.0		
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	1	1	9		7900000	EIC/AGS/CL:AIRE	0	< 1.0			< 1.0			< 1.0			< 1.0	< 1.0	< 1.0			< 1.0				< 1.0		
Aliphatic >EC5 - EC6	mg/kg	1	1	1	9		3200	S4UL	0	< 1.0			< 1.0			< 1.0			< 1.0	< 1.0	< 1.0			< 1.0				< 1.0		
Aliphatic >EC6 - EC8	mg/kg	1	1	1	9		7800	S4UL	0	< 1.0			< 1.0			< 1.0			< 1.0	< 1.0	< 1.0			< 1.0				< 1.0		
Aliphatic >EC8 - EC10	mg/kg	1	1	1	9		2000	S4UL	0	< 1.0			< 1.0			< 1.0			< 1.0	< 1.0	< 1.0			< 1.0				< 1.0		
Aliphatic >EC10 - EC12	mg/kg	1	1	1	9		9700	S4UL	0	< 1.0			< 1.0			< 1.0			< 1.0	< 1.0	< 1.0			< 1.0				< 1.0		
Aliphatic >EC12 - EC16	mg/kg	1	1	1	9		59000	S4UL	0	< 1.0			< 1.0			< 1.0			< 1.0	< 1.0	< 1.0			< 1.0				< 1.0		
Aliphatic >EC16 - EC21	mg/kg	1	1	1	9		1600000	S4UL	0	< 1.0			< 1.0			< 1.0			< 1.0	< 1.0	< 1.0			< 1.0				< 1.0		
Aliphatic >EC21 - EC35	mg/kg	1	1	1	9		1600000	S4UL	0	< 1.0			< 1.0			< 1.0			< 1.0	< 1.0	< 1.0			< 1.0				< 1.0		
Aliphatic >EC35 - EC44	mg/kg	1	1	1	9		1600000	S4UL	0	< 1.0			< 1.0			< 1.0			< 1.0	< 1.0	< 1.0			< 1.0				< 1.0		
Aromatic >EC5 - EC7	mg/kg	1	1	1	9		26000	S4UL	0	< 1.0			< 1.0			< 1.0			< 1.0	< 1.0	< 1.0			< 1.0				< 1.0		
Aromatic >EC7 - EC8	mg/kg	1	1	1	9		56000	S4UL	0	< 1.0			< 1.0			< 1.0			< 1.0	< 1.0	< 1.0			< 1.0				< 1.0		
Aromatic >EC8 - EC10	mg/kg	1	1	1	9		3500	S4UL	0	< 1.0			< 1.0			< 1.0			< 1.0	< 1.0	< 1.0			< 1.0				< 1.0		
Aromatic >EC10 - EC12	mg/kg	1	1	1	9		16000	S4UL	0	< 1.0			< 1.0			< 1.0			< 1.0	< 1.0	< 1.0			< 1.0				< 1.0		
Aromatic >EC12 - EC16	mg/kg	1	1	1	9		36000	S4UL	0	< 1.0			< 1.0			< 1.0			< 1.0	< 1.0	< 1.0			< 1.0				< 1.0		
Aromatic >EC16 - EC21	mg/kg	1	1	1	9		28000	S4UL	0	< 1.0			< 1.0			< 1.0			< 1.0	< 1.0	< 1.0			< 1.0				< 1.0		
Aromatic >EC21 - EC35	mg/kg	1	1	1	9		28000	S4UL	0	< 1.0			< 1.0			< 1.0			< 1.0	< 1.0	< 1.0			< 1.0				< 1.0		
Aromatic >EC35 - EC44	mg/kg	1	1	1	9		28000	S4UL	0	< 1.0			< 1.0			< 1.0			< 1.0	< 1.0	< 1.0			< 1.0				< 1.0		