

	
Photograph Ref: 7	
Date: 15/10/2025	
Photograph direction: N/A	
Description: TP01.	
	
Photograph Ref: 8	
Date: 15/10/2025	
Photograph direction: N/A	
Description: TP02.	

Photograph Ref: 9	
Date: 15/10/2025	
Photograph direction: North	
Description: TP03.	
Photograph Ref: 10	
Date: 15/10/2025	
Photograph direction: N/A	
Description: TP04.	

	
Photograph Ref: 11	
Date: 15/10/2025	
Photograph direction: N/A	
Description: TP05.	
	
Photograph Ref: 12	
Date: 15/10/2025	
Photograph direction: N/A	
Description: TP06.	

	
Photograph Ref:	
13	
Date:	
15/10/2025	
Photograph direction: N/A	
Description:	
TP07.	
	
Photograph Ref:	
14	
Date:	
15/10/2025	
Photograph direction: N/A	
Description:	
TP08.	

	
Photograph Ref: 15	
Date: 15/10/2025	
Photograph direction: N/A	
Description: Trial pit arisings.	
	
Photograph Ref: 16	
Date: 15/10/2025	
Photograph direction: N/A	
Description: Trial pit arisings.	

Appendix C Geotechnical test results and geotechnical plots



TEST CERTIFICATE

DETERMINATION OF LIQUID AND PLASTIC LIMITS
 Tested in Accordance with: BS EN ISO 17892-12:2018+A2:2022,
 cl 5.3 and 5.5, Fall Cone Method, 4 Pt Test, BS 1377-2:2022, cl 5.2 and 6

4041

Client: Hydrock Consultants Ltd
 Client Address: Suite 8, White Building,
 1-4 Cumberland Place, Southampton,
 Hampshire, SO15 2NP
 Contact: Emma Raftery
 Site Address: Land North of School Lane, Arborfield Cross

Client Reference: 333801775
 Job Number: 25-057713-1
 Date Sampled: 15/10/2025
 Date Received: 24/10/2025
 Date Tested: 31/10/2025
 Sampled By: Not Given

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

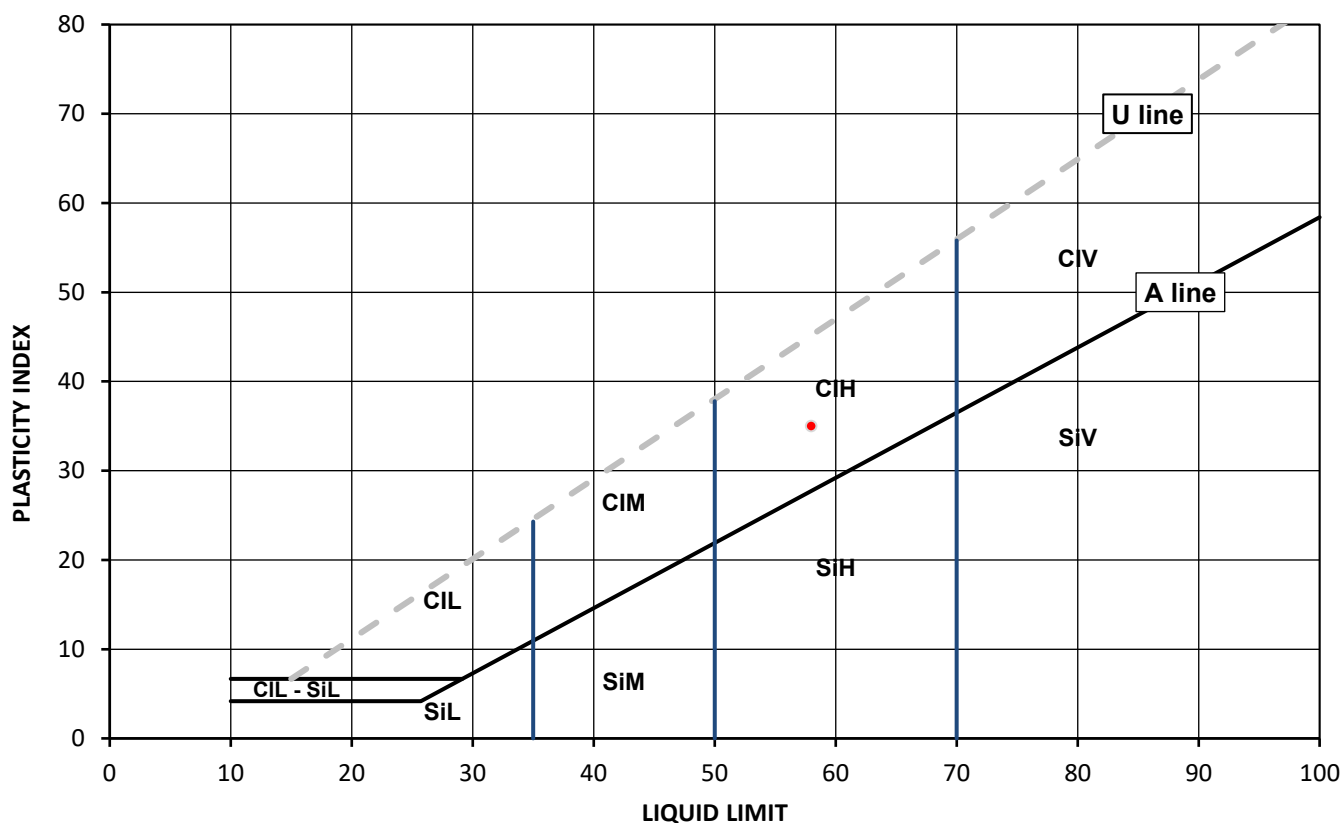
Test Results:

Laboratory Reference: 727323
 Hole No.: TP02
 Sample Reference: Not Given
 Sample Description: Brownish grey slightly gravelly slightly sandy CLAY

Depth Top [m]: 1.20
 Depth Base [m]: 1.30
 Sample Type: D

Sample Preparation: Tested after washing to remove >0.425mm; The water content in the sample was increased
 Cone Type: 80g/30deg

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	Liquidity Index [IL] % #	Consistency Index [IC] % #	% Passing 425µm BS Test Sieve
16.1	58	23	35	-0.20	1.20	88



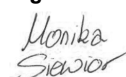
Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

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

Note: Water Content by BS EN ISO 17892-1:2014+A1:2022, BS 1377-2:2022; # Non accredited

Remarks:

Signed:



Monika Siewior
 Senior Reporting Specialist
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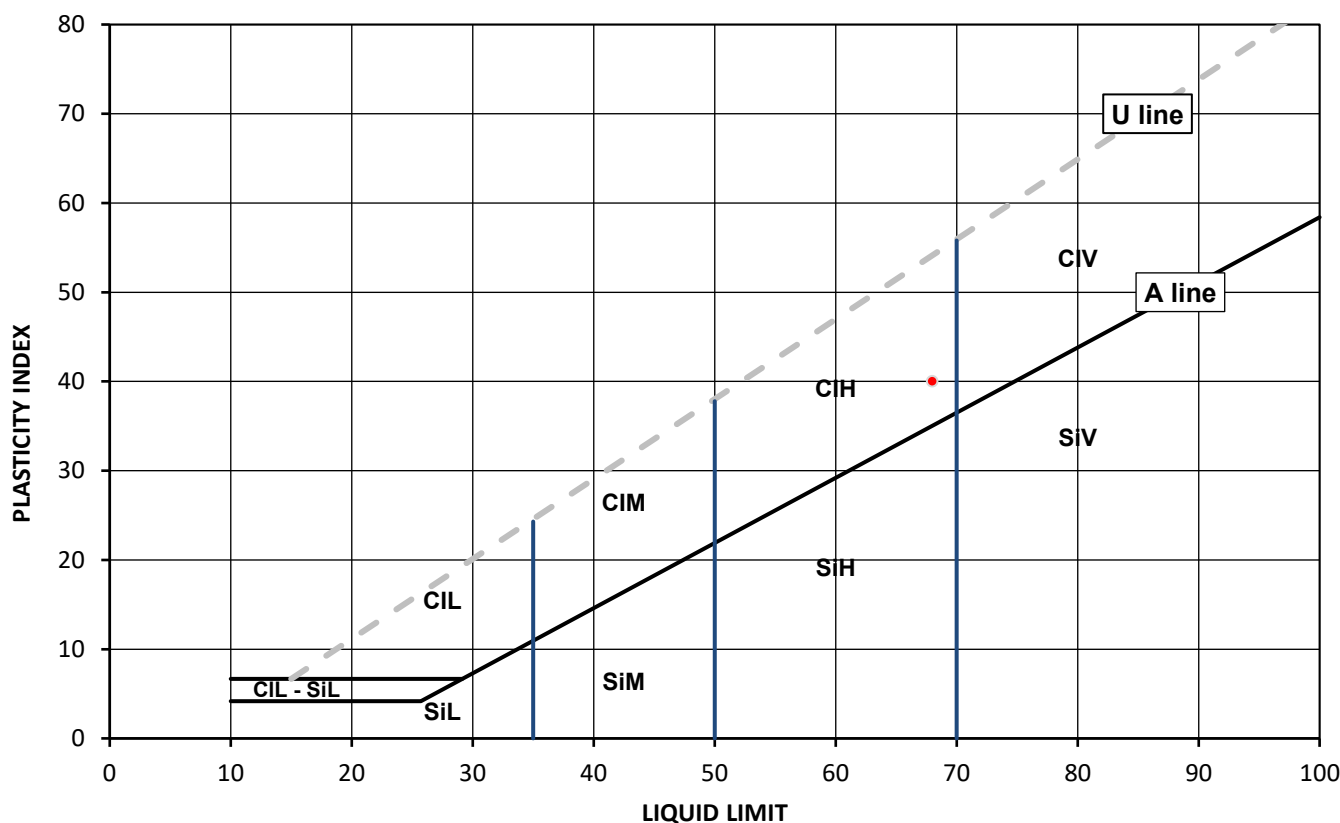
Test Results:

Laboratory Reference: 727324
Hole No.: TP02
Sample Reference: Not Given
Sample Description: Brownish grey CLAY

Depth Top [m]: 2.00
Depth Base [m]: 2.10
Sample Type: D

Sample Preparation: Tested in natural condition; The water content in the sample was increased
Cone Type: 80g/30deg

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	Liquidity Index [IL] % #	Consistency Index [IC] % #	% Passing 425µm BS Test Sieve
35.2	68	28	40	0.18	0.83	100



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

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

Note: Water Content by BS EN ISO 17892-1:2014+A1:2022, BS 1377-2:2022; # Non accredited

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Sampled By: Not Given

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

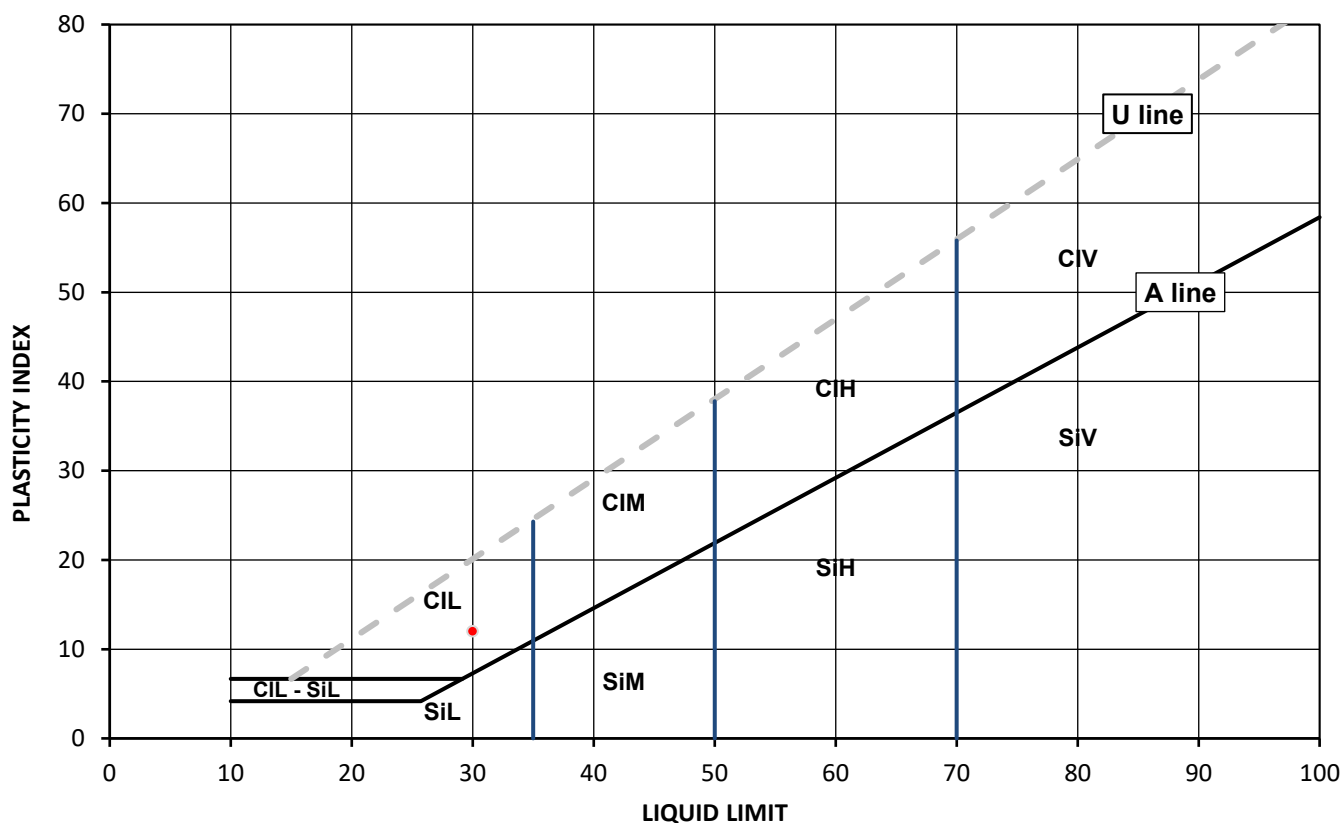
Test Results:

Laboratory Reference: 727325
Hole No.: TP03
Sample Reference: Not Given
Sample Description: Brown slightly gravelly very sandy CLAY

Depth Top [m]: 0.30
Depth Base [m]: Not Given
Sample Type: D

Sample Preparation: Tested after washing to remove >0.425mm; The water content in the sample was increased
Cone Type: 80g/30deg

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	Liquidity Index [IL] % #	Consistency Index [IC] % #	% Passing 425µm BS Test Sieve
9.9	30	18	12	-0.67	1.67	89



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

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

Note: Water Content by BS EN ISO 17892-1:2014+A1:2022, BS 1377-2:2022; # Non accredited

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Sampled By: Not Given

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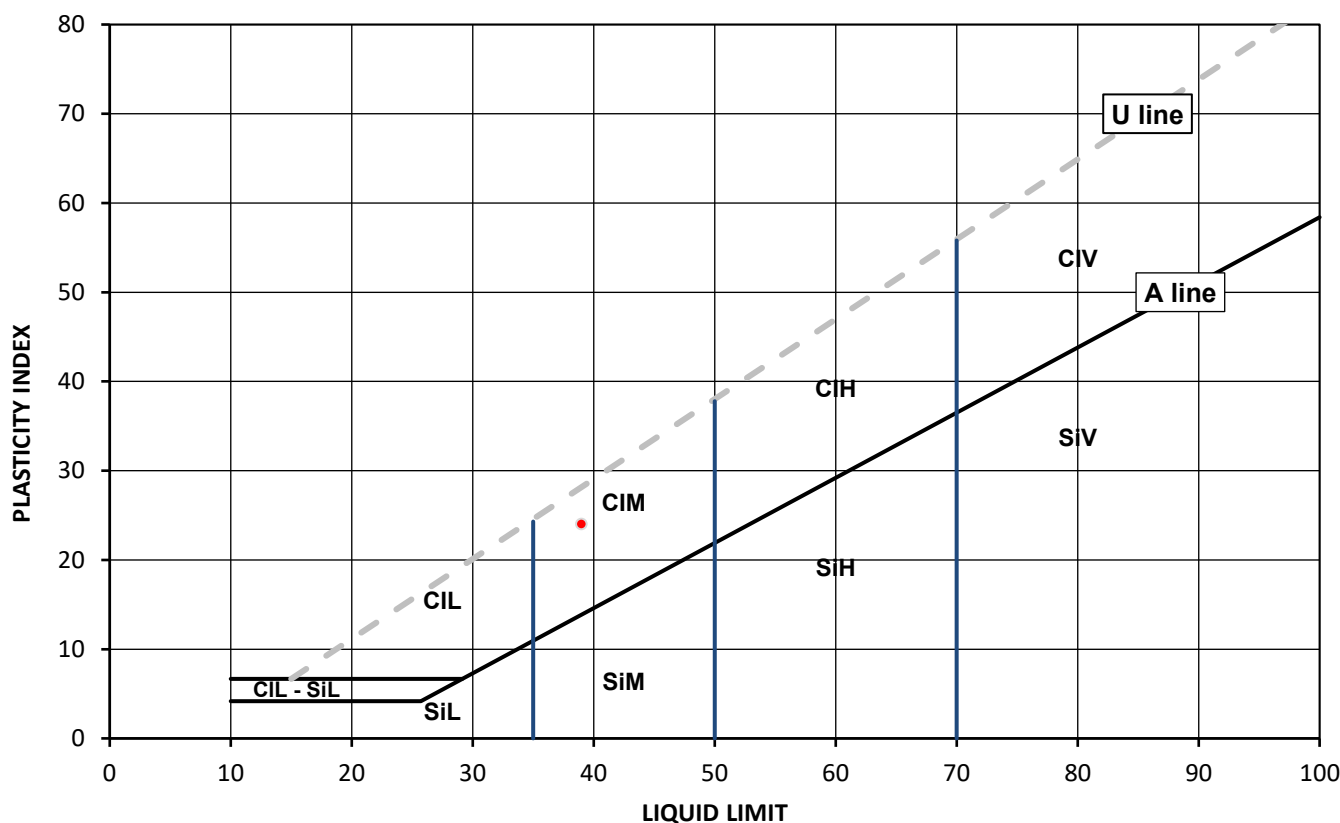
Test Results:

Laboratory Reference: 727326
Hole No.: TP03
Sample Reference: Not Given
Sample Description: Brown slightly gravelly sandy CLAY

Depth Top [m]: 1.35
Depth Base [m]: Not Given
Sample Type: D

Sample Preparation: Tested after washing to remove >0.425mm; The water content in the sample was increased
Cone Type: 80g/30deg

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	Liquidity Index [IL] % #	Consistency Index [IC] % #	% Passing 425µm BS Test Sieve
9.1	39	15	24	-0.25	1.25	70



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

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

Note: Water Content by BS EN ISO 17892-1:2014+A1:2022, BS 1377-2:2022; # Non accredited

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Date Tested: 31/10/2025
Sampled By: Not Given

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

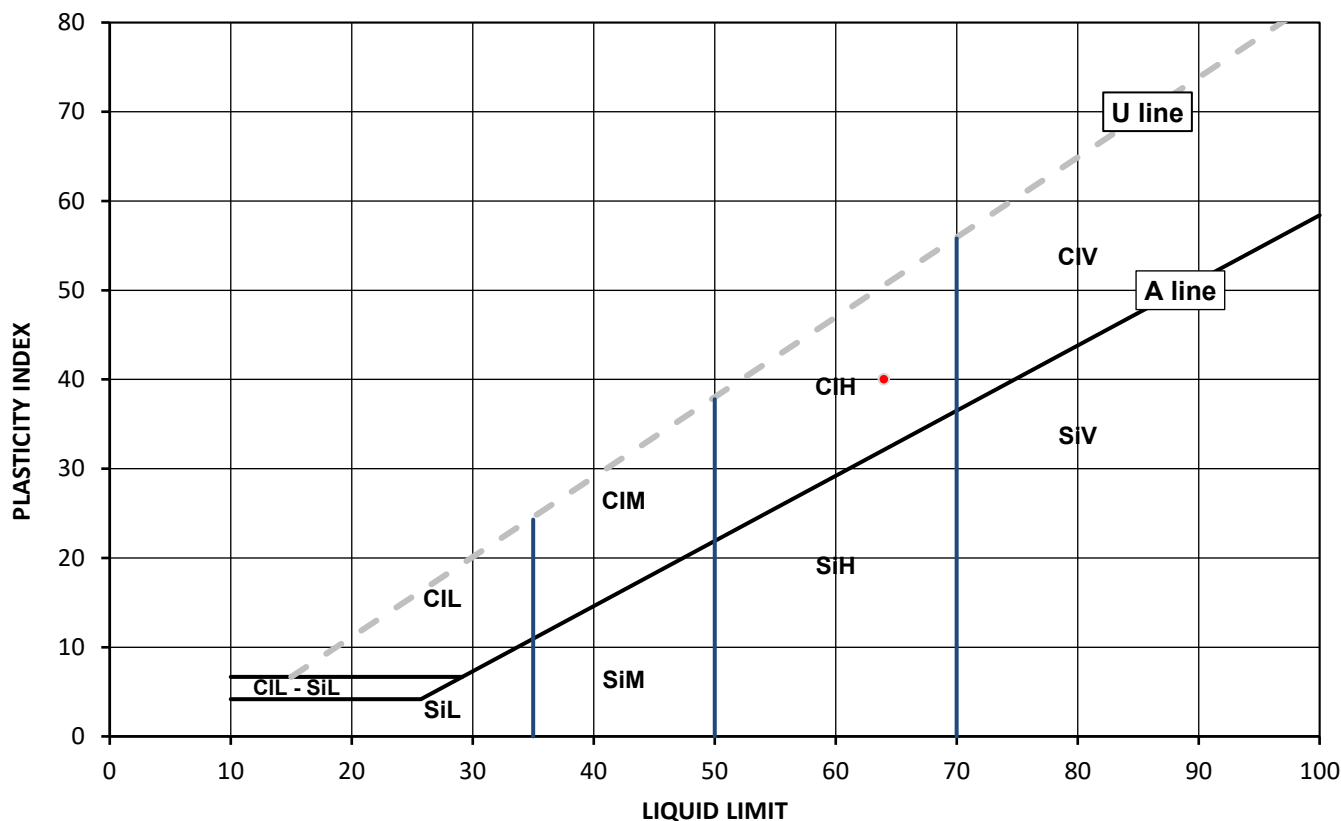
Test Results:

Laboratory Reference: 727327
Hole No.: TP03
Sample Reference: Not Given
Sample Description: Brownish grey CLAY

Depth Top [m]: 3.00
Depth Base [m]: Not Given
Sample Type: D

Sample Preparation: Tested in natural condition; The water content in the sample was increased
Cone Type: 80g/30deg

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	Liquidity Index [IL] % #	Consistency Index [IC] % #	% Passing 425µm BS Test Sieve
29.4	64	24	40	0.13	0.88	100



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

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

Note: Water Content by BS EN ISO 17892-1:2014+A1:2022, BS 1377-2:2022; # Non accredited

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Date Tested: 31/10/2025
Sampled By: Not Given

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

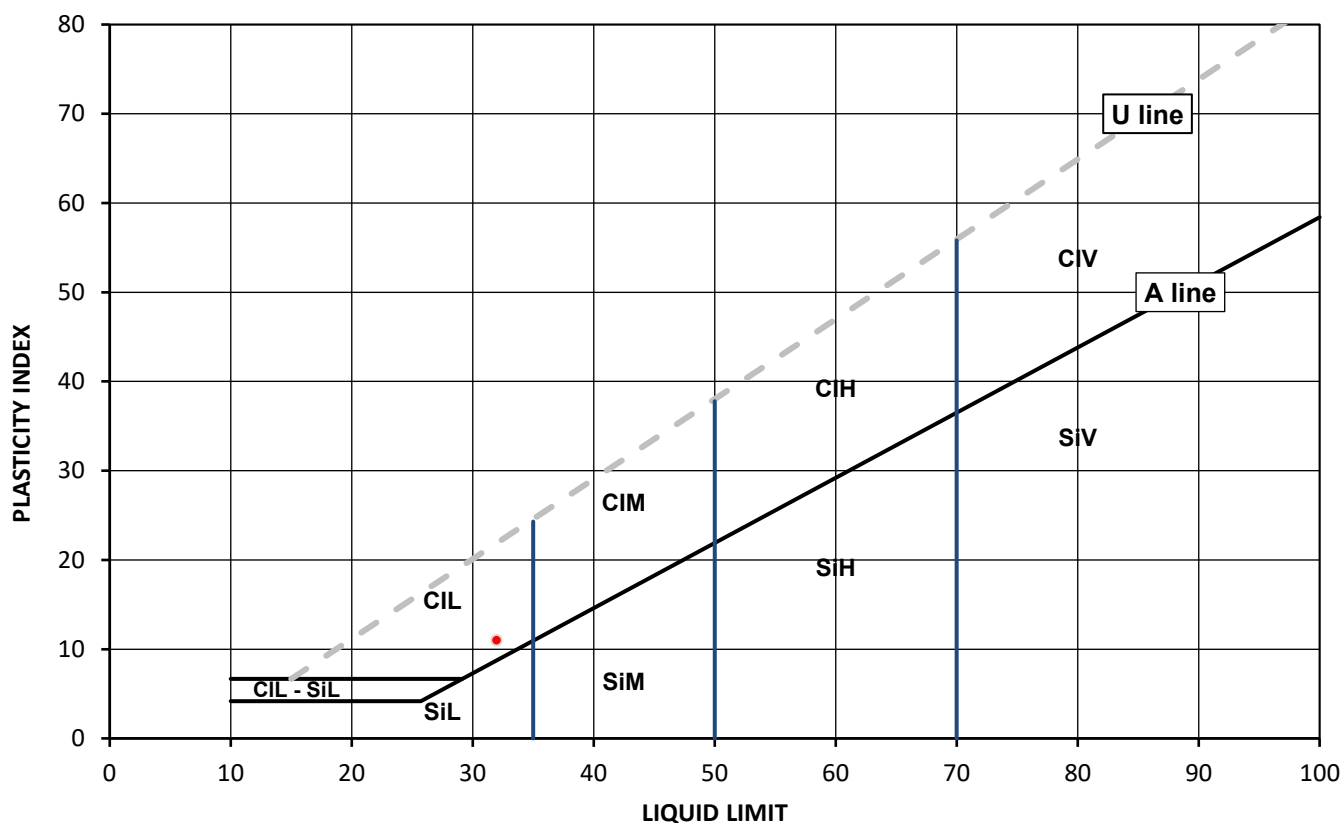
Test Results:

Laboratory Reference: 727328
Hole No.: TP04
Sample Reference: Not Given
Sample Description: Brown slightly gravelly very sandy silty CLAY

Depth Top [m]: 0.40
Depth Base [m]: 0.50
Sample Type: D

Sample Preparation: Tested after >0.425mm removed by hand; The water content in the sample was increased
Cone Type: 80g/30deg

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	Liquidity Index [IL] % #	Consistency Index [IC] % #	% Passing 425µm BS Test Sieve
14.2	32	21	11	-0.64	1.64	83



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: Water Content by BS EN ISO 17892-1:2014+A1:2022, BS 1377-2:2022; # Non accredited

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Date Sampled: 15/10/2025
Date Received: 24/10/2025
Date Tested: 30/10/2025
Sampled By: Not Given

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

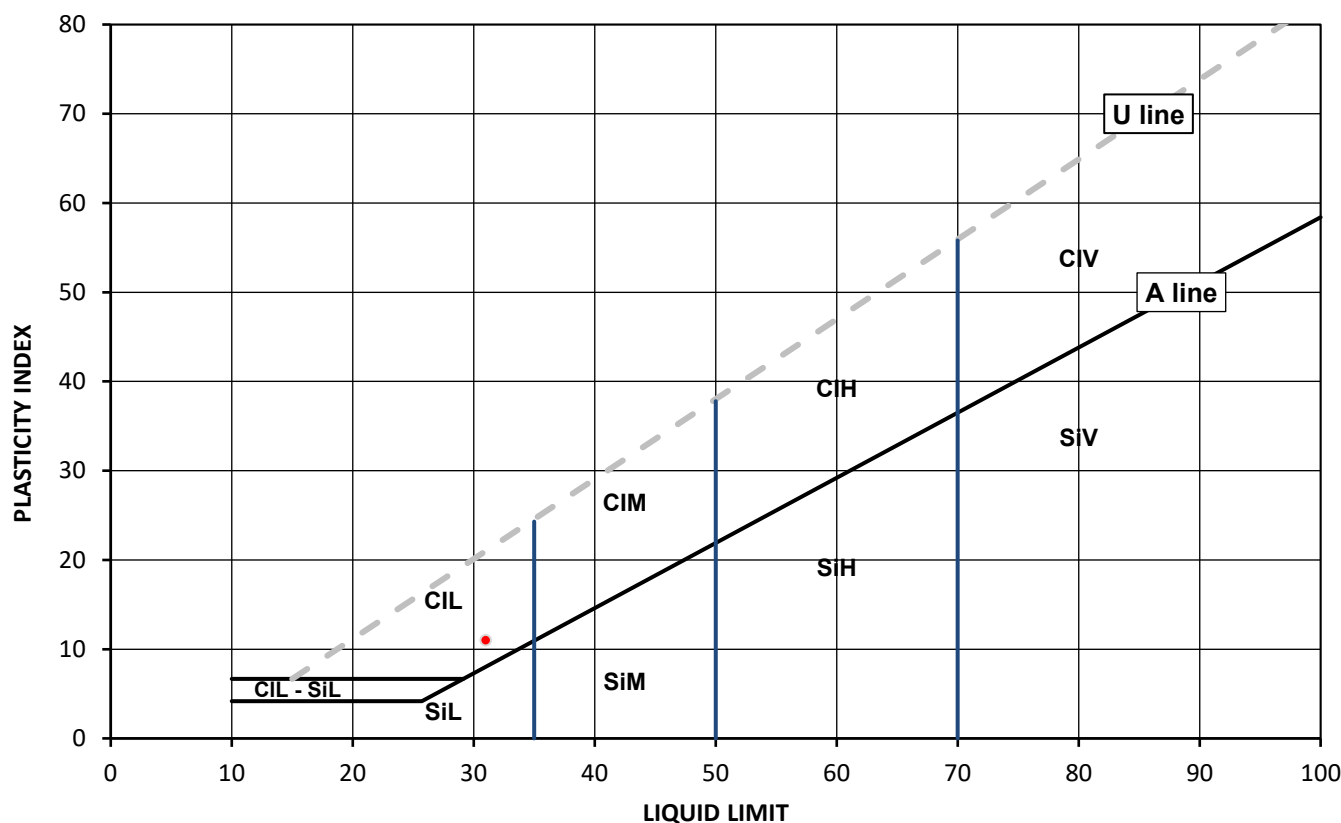
Test Results:

Laboratory Reference: 727329
Hole No.: TP04
Sample Reference: Not Given
Sample Description: Brown slightly gravelly very sandy silty CLAY

Depth Top [m]: 0.80
Depth Base [m]: 1.00
Sample Type: B

Sample Preparation: Tested after washing to remove >0.425mm; The water content in the sample was increased
Cone Type: 80g/30deg

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	Liquidity Index [IL] % #	Consistency Index [IC] % #	% Passing 425µm BS Test Sieve
12.2	31	20	11	-0.73	1.73	89



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

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

Note: Water Content by BS EN ISO 17892-1:2014+A1:2022, BS 1377-2:2022; # Non accredited

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Sampled By: Not Given

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

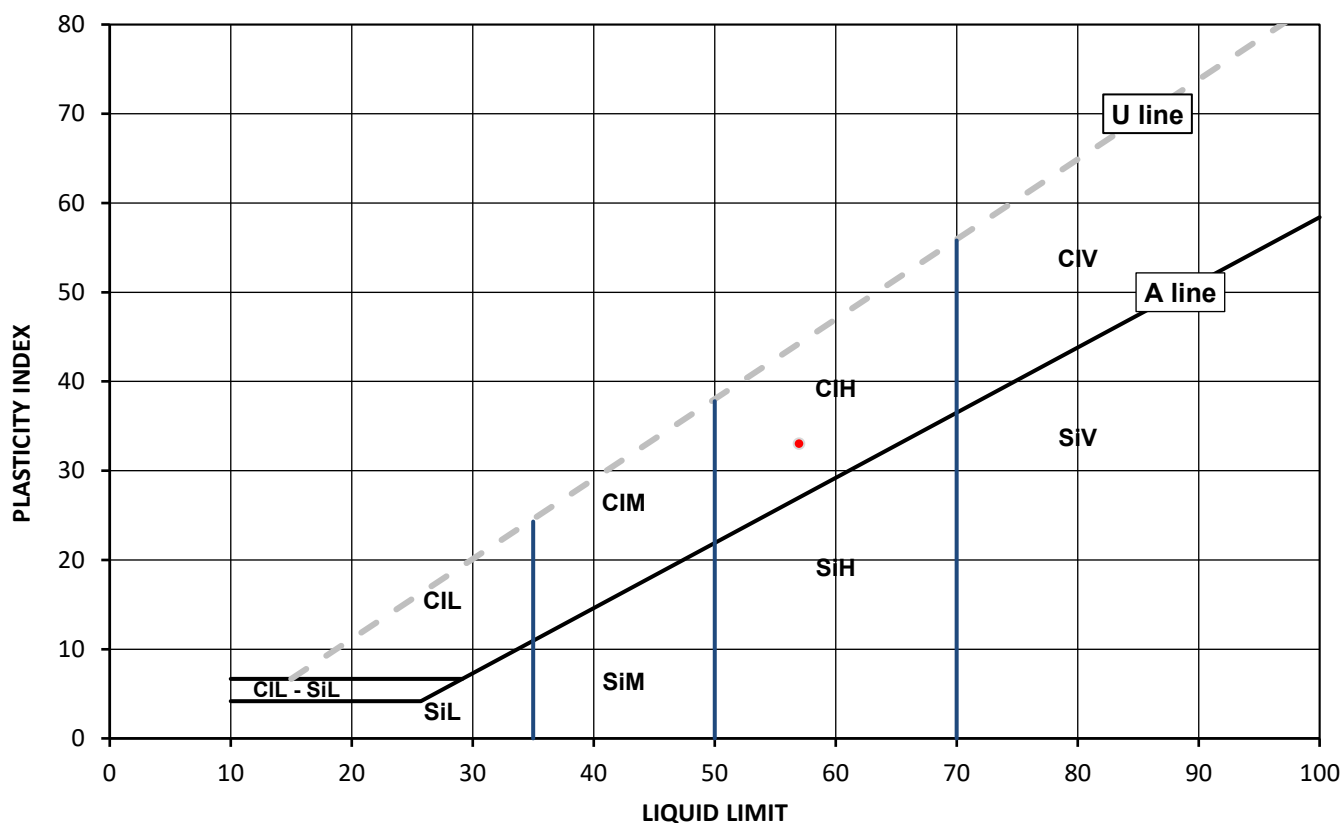
Test Results:

Laboratory Reference: 727330
Hole No.: TP04
Sample Reference: Not Given
Sample Description: Brownish grey slightly sandy CLAY

Depth Top [m]: 1.50
Depth Base [m]: 1.60
Sample Type: D

Sample Preparation: Tested in natural condition; The water content in the sample was increased
Cone Type: 80g/30deg

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	Liquidity Index [IL] % #	Consistency Index [IC] % #	% Passing 425µm BS Test Sieve
20.2	57	24	33	-0.12	1.12	100



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

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

Note: Water Content by BS EN ISO 17892-1:2014+A1:2022, BS 1377-2:2022; # Non accredited

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Date Sampled: 15/10/2025
Date Received: 24/10/2025
Date Tested: 30/10/2025
Sampled By: Not Given

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

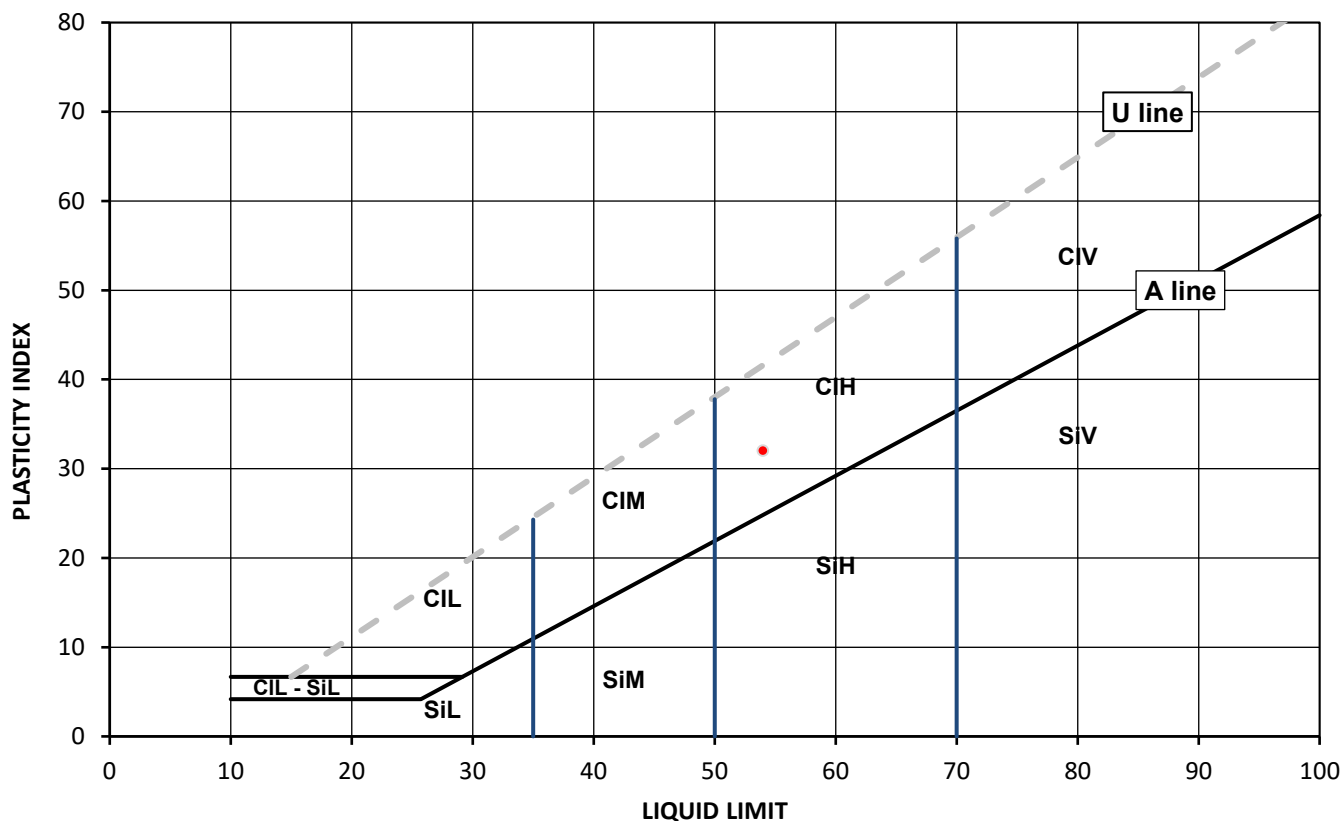
Test Results:

Laboratory Reference: 727331
Hole No.: TP04
Sample Reference: Not Given
Sample Description: Brown slightly gravelly slightly sandy CLAY

Depth Top [m]: 1.50
Depth Base [m]: 2.00
Sample Type: B

Sample Preparation: Tested after washing to remove >0.425mm; The water content in the sample was increased
Cone Type: 80g/30deg

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	Liquidity Index [IL] % #	Consistency Index [IC] % #	% Passing 425µm BS Test Sieve
30.0	54	22	32	0.25	0.75	99



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

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

Note: Water Content by BS EN ISO 17892-1:2014+A1:2022, BS 1377-2:2022; # Non accredited

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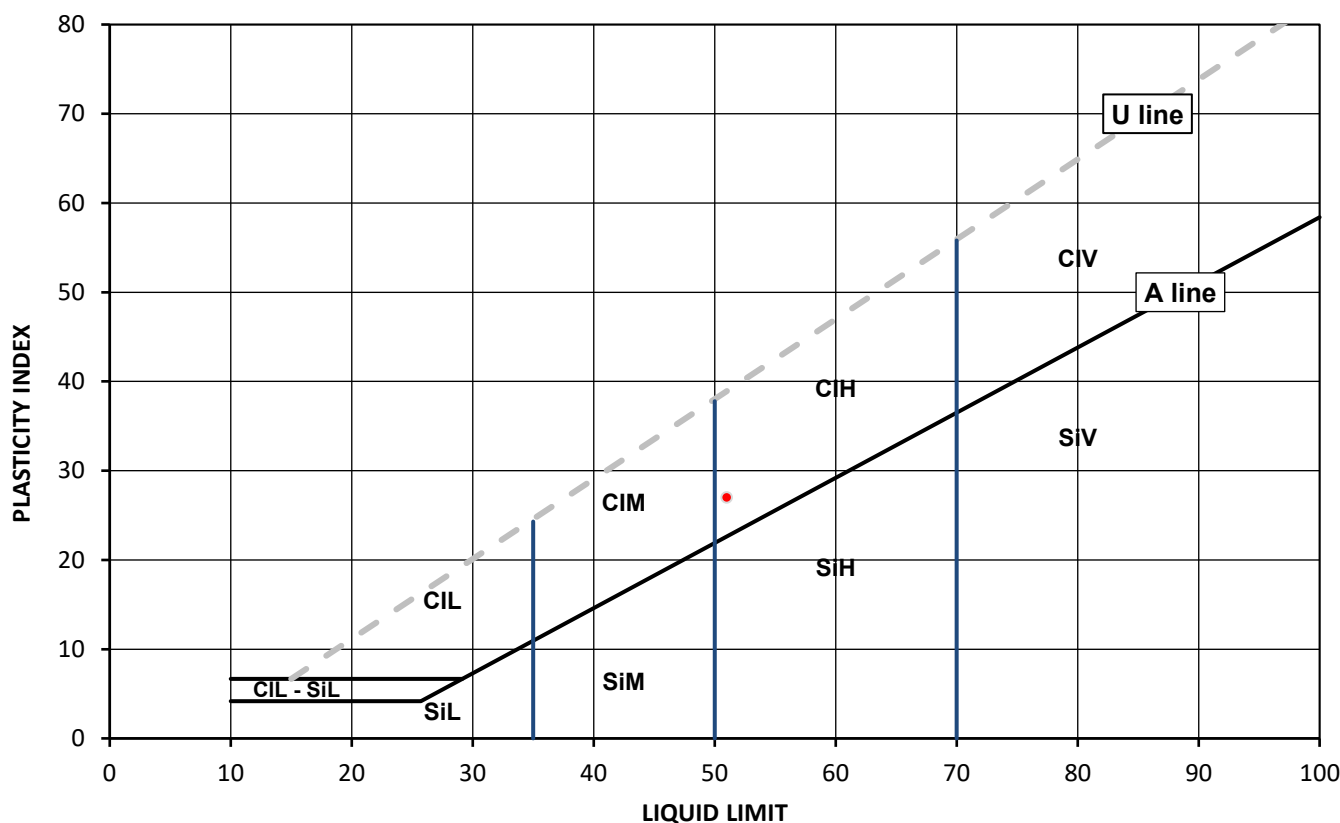
Test Results:

Laboratory Reference: 727332
 Hole No.: TP04
 Sample Reference: Not Given
 Sample Description: Yellowish brown slightly sandy CLAY

Depth Top [m]: 2.80
 Depth Base [m]: 3.00
 Sample Type: B

Sample Preparation: Tested in natural condition; The water content in the sample was increased
 Cone Type: 80g/30deg

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	Liquidity Index [IL] % #	Consistency Index [IC] % #	% Passing 425µm BS Test Sieve
31.2	51	24	27	0.26	0.74	100



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

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

Note: Water Content by BS EN ISO 17892-1:2014+A1:2022, BS 1377-2:2022; # Non accredited

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Page 1 of 1

Date Reported: 07/11/2025

GF 337.16



TEST CERTIFICATE

DETERMINATION OF LIQUID AND PLASTIC LIMITS

Tested in Accordance with: BS EN ISO 17892-12:2018+A2:2022,
cl 5.3 and 5.5, Fall Cone Method, 4 Pt Test, BS 1377-2:2022, cl 5.2 and 6



4041

Client: Hydrock Consultants Ltd
Client Address: Suite 8, White Building,
1-4 Cumberland Place, Southampton,
Hampshire, SO15 2NP
Contact: Emma Raftery
Site Address: Land North of School Lane, Arborfield Cross

Client Reference: 333801775
Job Number: 25-057713-1
Date Sampled: 15/10/2025
Date Received: 24/10/2025
Date Tested: 31/10/2025
Sampled By: Not Given

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

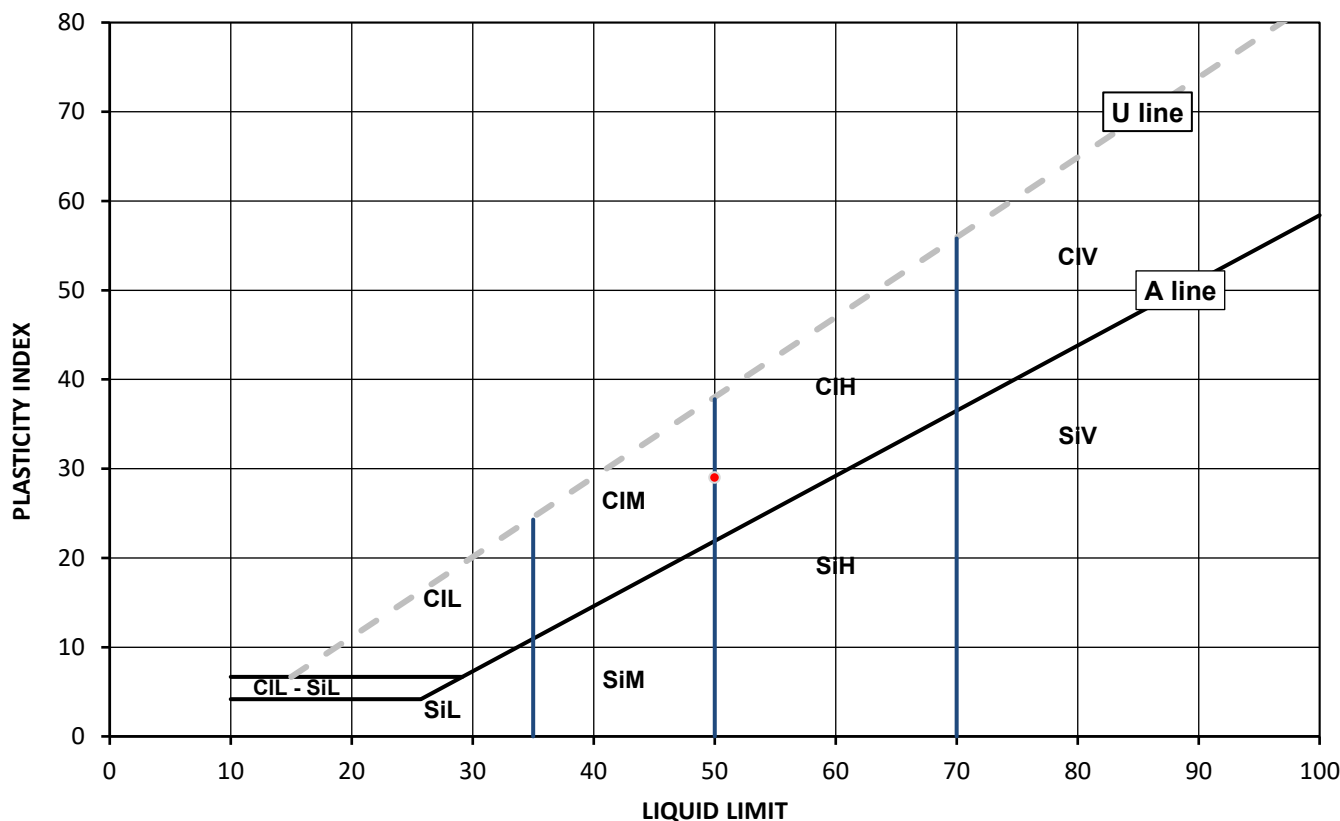
Test Results:

Laboratory Reference: 727333
Hole No.: TP06
Sample Reference: Not Given
Sample Description: Brown slightly sandy CLAY

Depth Top [m]: 1.70
Depth Base [m]: Not Given
Sample Type: D

Sample Preparation: Tested in natural condition; The water content in the sample was increased
Cone Type: 80g/30deg

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	Liquidity Index [IL] % #	Consistency Index [IC] % #	% Passing 425µm BS Test Sieve
23.5	50	21	29	0.10	0.90	100



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

	Plasticity	Liquid Limit
Cl	Clay	below 35
Si	Silt	35 to 50
		50 to 70
		exceeding 70
		append to classification for organic material (eg ClHO)

Note: Water Content by BS EN ISO 17892-1:2014+A1:2022, BS 1377-2:2022; # Non accredited

Remarks:

Signed:

Monika Siewior

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

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TEST CERTIFICATE

DETERMINATION OF LIQUID AND PLASTIC LIMITS
 Tested in Accordance with: BS EN ISO 17892-12:2018+A2:2022,
 cl 5.3 and 5.5, Fall Cone Method, 4 Pt Test, BS 1377-2:2022, cl 5.2 and 6

4041

Client: Hydrock Consultants Ltd
 Client Address: Suite 8, White Building,
 1-4 Cumberland Place, Southampton,
 Hampshire, SO15 2NP
 Contact: Emma Raftery
 Site Address: Land North of School Lane, Arborfield Cross

Client Reference: 333801775
 Job Number: 25-057713-1
 Date Sampled: 15/10/2025
 Date Received: 24/10/2025
 Date Tested: 31/10/2025
 Sampled By: Not Given

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

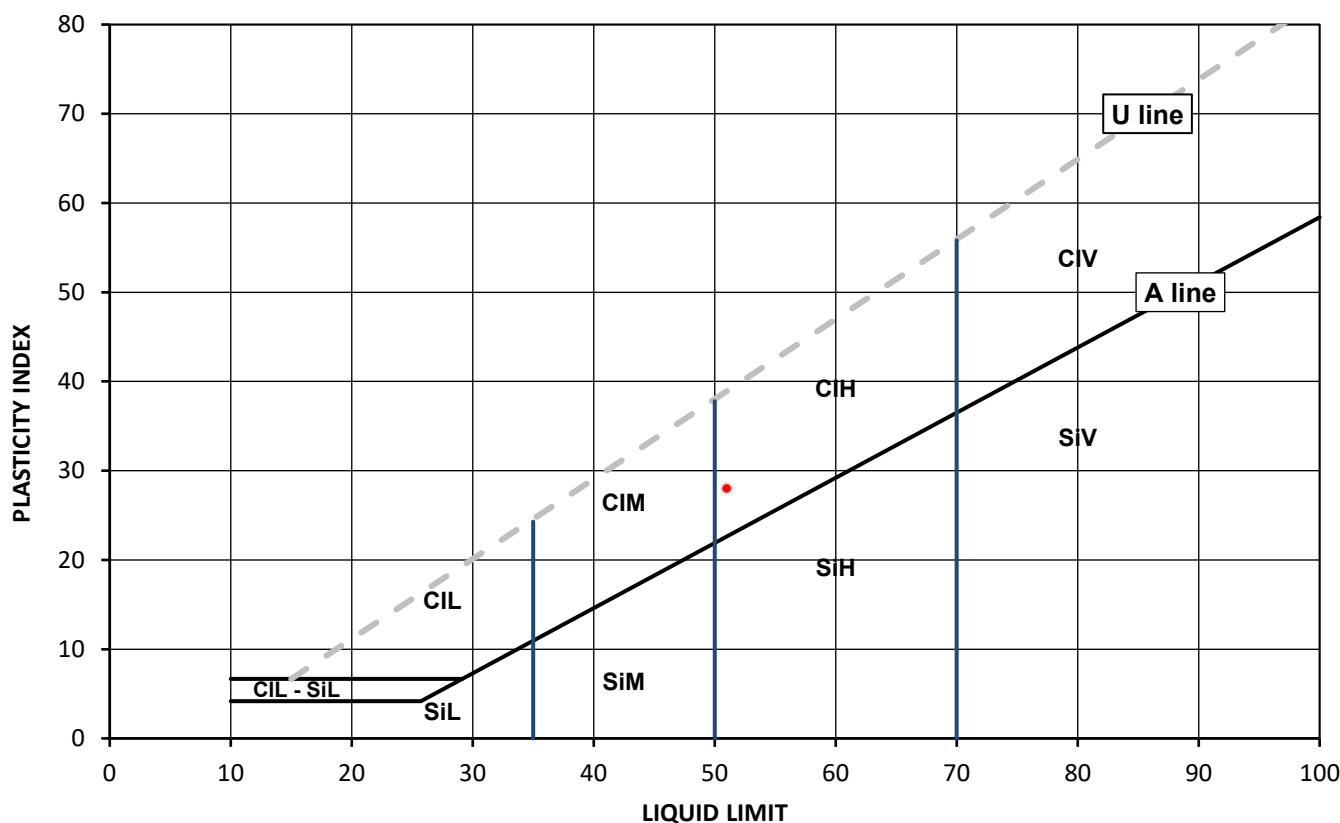
Test Results:

Laboratory Reference: 727334
 Hole No.: TP06
 Sample Reference: Not Given
 Sample Description: Brown slightly gravelly slightly sandy CLAY

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

Sample Preparation: Tested in natural condition; The water content in the sample was increased
 Cone Type: 80g/30deg

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	Liquidity Index [IL] % #	Consistency Index [IC] % #	% Passing 425µm BS Test Sieve
27.7	51	23	28	0.18	0.82	100



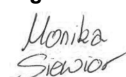
Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

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

Note: Water Content by BS EN ISO 17892-1:2014+A1:2022, BS 1377-2:2022; # Non accredited

Remarks:

Signed:



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TEST CERTIFICATE

DETERMINATION OF LIQUID AND PLASTIC LIMITS
Tested in Accordance with: BS EN ISO 17892-12:2018+A2:2022,
cl 5.3 and 5.5, Fall Cone Method, 4 Pt Test, BS 1377-2:2022, cl 5.2 and 6



4041

Client: Hydrock Consultants Ltd
Client Address: Suite 8, White Building,
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Contact: Emma Raftery
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Client Reference: 333801775
Job Number: 25-057713-1
Date Sampled: 15/10/2025
Date Received: 24/10/2025
Date Tested: 31/10/2025
Sampled By: Not Given

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

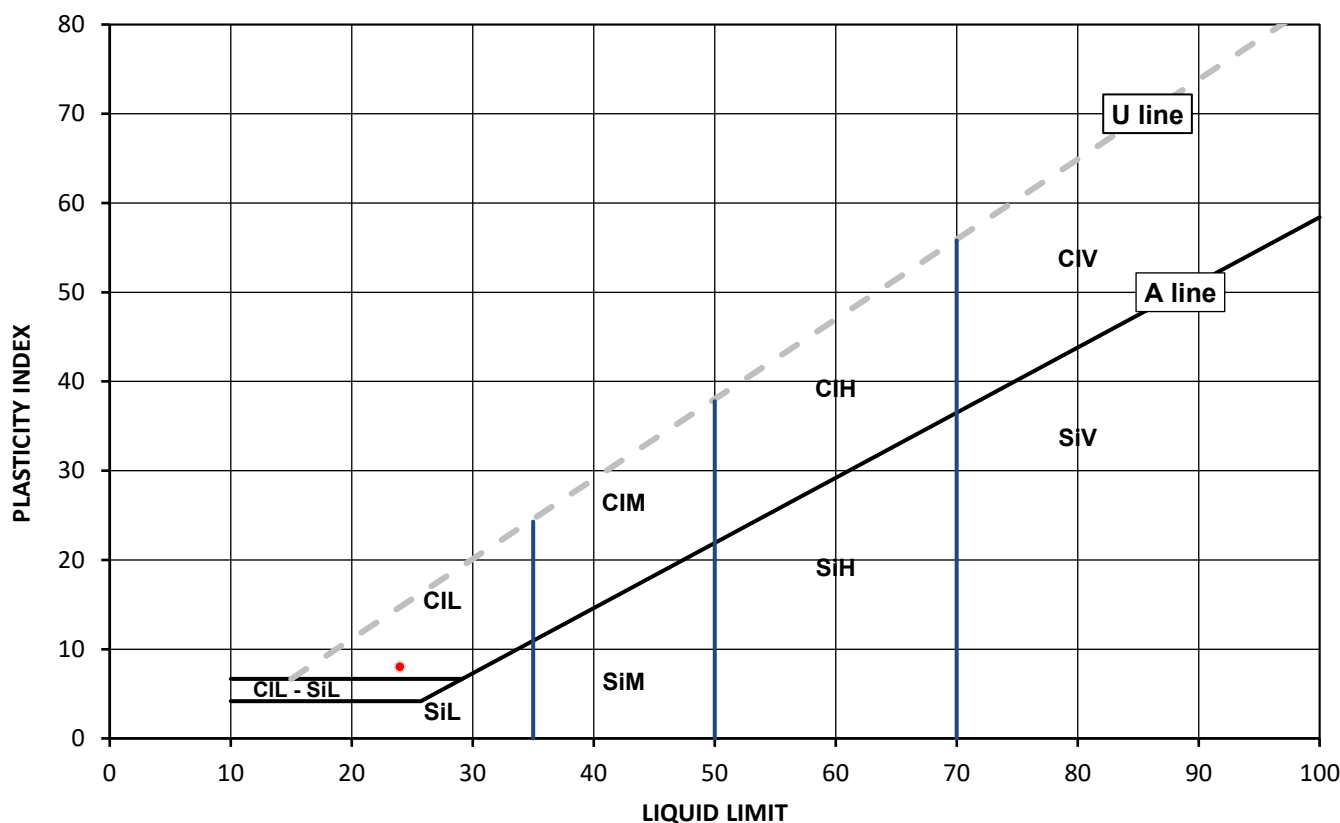
Test Results:

Laboratory Reference: 727335
Hole No.: TP07
Sample Reference: Not Given
Sample Description: Brown clayey SAND

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

Sample Preparation: Tested in natural condition; The water content in the sample was increased
Cone Type: 80g/30deg

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	Liquidity Index [IL] % #	Consistency Index [IC] % #	% Passing 425µm BS Test Sieve
10.1	24	16	8	-0.75	1.75	100



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

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

Note: Water Content by BS EN ISO 17892-1:2014+A1:2022, BS 1377-2:2022; # Non accredited

Remarks:

Signed:

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Date Reported: 07/11/2025

GF 337.16



TEST CERTIFICATE

DETERMINATION OF LIQUID AND PLASTIC LIMITS

Tested in Accordance with: BS EN ISO 17892-12:2018+A2:2022,
cl 5.3 and 5.5, Fall Cone Method, 4 Pt Test, BS 1377-2:2022, cl 5.2 and 6



4041

Client: Hydrock Consultants Ltd
Client Address: Suite 8, White Building,
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Contact: Emma Raftery
Site Address: Land North of School Lane, Arborfield Cross

Client Reference: 333801775
Job Number: 25-057713-1
Date Sampled: 15/10/2025
Date Received: 24/10/2025
Date Tested: 31/10/2025
Sampled By: Not Given

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

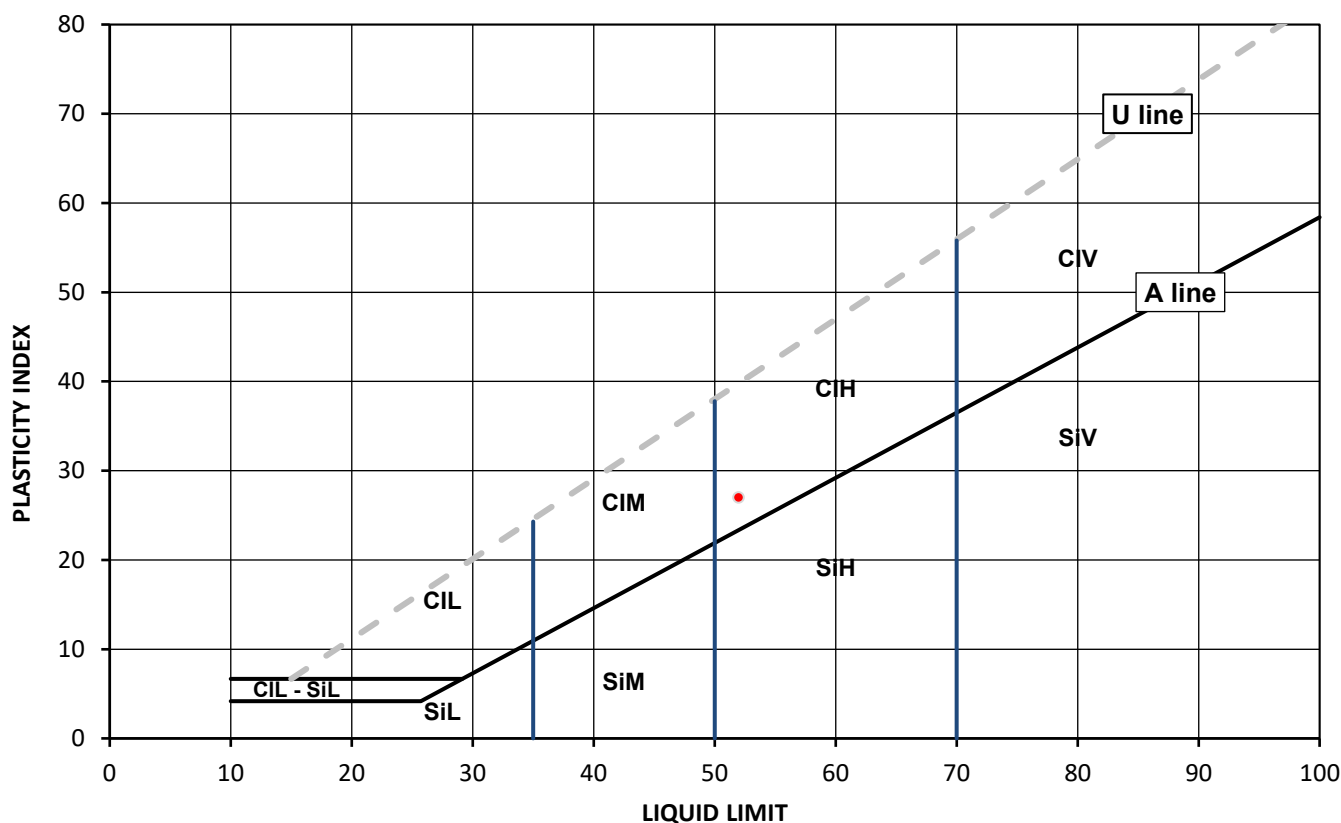
Test Results:

Laboratory Reference: 727336
Hole No.: TP07
Sample Reference: Not Given
Sample Description: Brownish grey slightly sandy CLAY

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

Sample Preparation: Tested in natural condition; The water content in the sample was increased
Cone Type: 80g/30deg

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	Liquidity Index [IL] % #	Consistency Index [IC] % #	% Passing 425µm BS Test Sieve
27.7	52	25	27	0.11	0.89	100



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

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

Note: Water Content by BS EN ISO 17892-1:2014+A1:2022, BS 1377-2:2022; # Non accredited

Remarks:

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Date Reported: 07/11/2025

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TEST CERTIFICATE

DETERMINATION OF LIQUID AND PLASTIC LIMITS

Tested in Accordance with: BS EN ISO 17892-12:2018+A2:2022,
cl 5.3 and 5.5, Fall Cone Method, 4 Pt Test, BS 1377-2:2022, cl 5.2 and 6



4041

Client: Hydrock Consultants Ltd
Client Address: Suite 8, White Building,
1-4 Cumberland Place, Southampton,
Hampshire, SO15 2NP
Contact: Emma Raftery
Site Address: Land North of School Lane, Arborfield Cross

Client Reference: 333801775
Job Number: 25-057713-1
Date Sampled: 15/10/2025
Date Received: 24/10/2025
Date Tested: 31/10/2025
Sampled By: Not Given

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

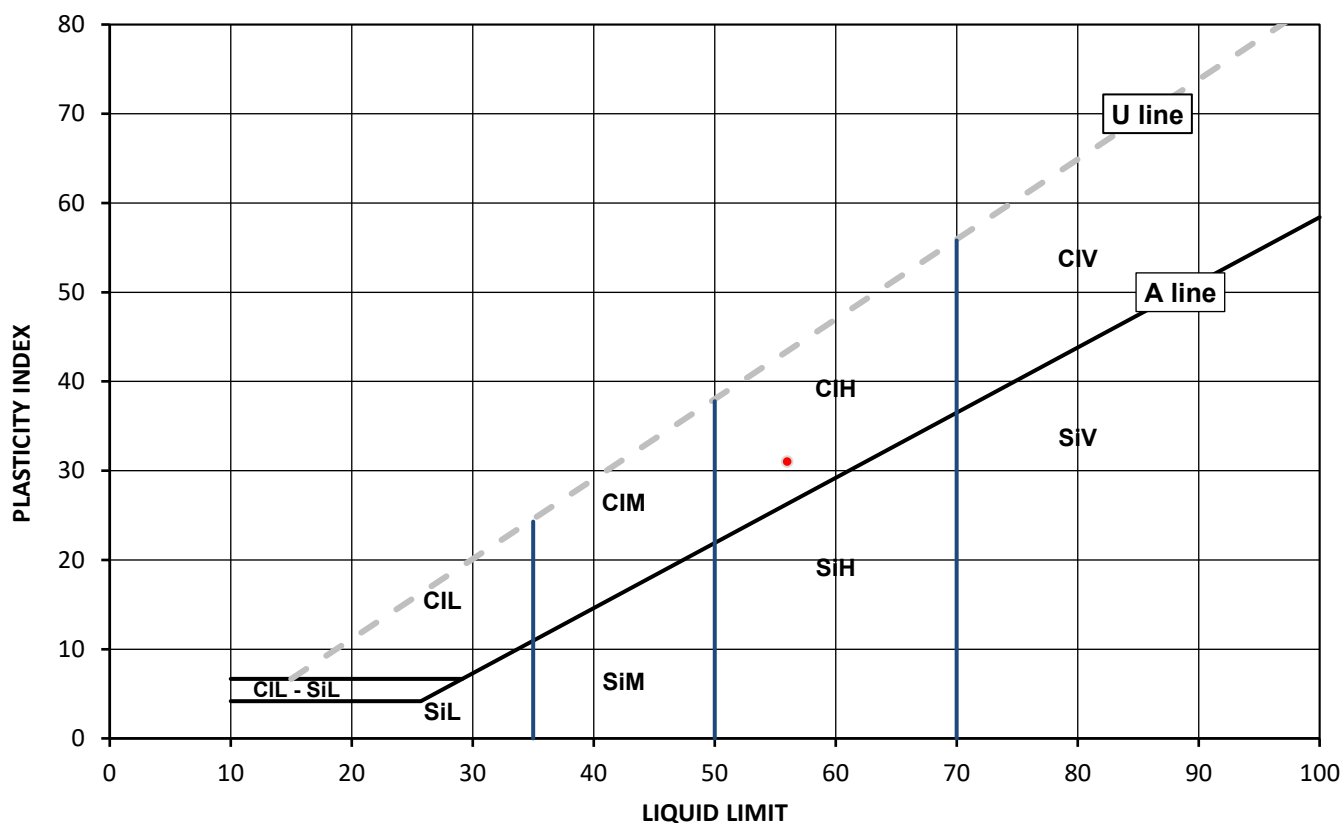
Test Results:

Laboratory Reference: 727337
Hole No.: TP08
Sample Reference: Not Given
Sample Description: Brownish grey slightly sandy CLAY

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

Sample Preparation: Tested in natural condition; The water content in the sample was increased
Cone Type: 80g/30deg

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	Liquidity Index [IL] % #	Consistency Index [IC] % #	% Passing 425µm BS Test Sieve
33.7	56	25	31	0.29	0.71	100



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

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

Note: Water Content by BS EN ISO 17892-1:2014+A1:2022, BS 1377-2:2022; # Non accredited

Remarks:

Signed:

Monika Siewior

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Page 1 of 1

Date Reported: 07/11/2025

GF 337.16



SUMMARY REPORT

SUMMARY OF CLASSIFICATION TEST RESULTS

Tested in Accordance with:



4041

Client: Hydrock Consultants Ltd

BS EN ISO 17892-12:2018+A2:2022 cl 5.3 and 5.5, Fall Cone Method, 4 Pt
Test, BS 1377-2:2022, cl 5.2 and 6. W by BS EN ISO 17892-1:2014+A1:2022.

Client Reference: 333801775

Client Address: Suite 8, White Building,
1-4 Cumberland Place, Southampton,
Hampshire, SO15 2NP

Job Number: 25-057713-1

Date Sampled: 15/10/2025

Contact: Emma Raftery

Date Received: 24/10/2025

Date Tested: 30/10 - 31/10/2025

Site Address: Land North of School Lane, Arborfield Cross

Sampled By: Not Given

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

Test results

Laboratory Reference	Hole No.	Sample				Description	Remarks	W	Liquid & Plastic Limit							Density		
		Reference	Depth Top	Depth Base	Type				% Passing 425um	WL*	Correlation Factor	Wp	Ip	Cone type	Sample Preparation	bulk	dry	PD
727323	TP02	Not Given	1.20	1.30	D	Brownish grey slightly gravelly slightly sandy CLAY	Atterberg 4 Point	16.1	88	58	-	23	35	80g/30 deg	WR / I			
727324	TP02	Not Given	2.00	2.10	D	Brownish grey CLAY	Atterberg 4 Point	35.2	100	68	-	28	40	80g/30 deg	N / I			
727325	TP03	Not Given	0.30	Not Given	D	Brown slightly gravelly very sandy CLAY	Atterberg 4 Point	9.9	89	30	-	18	12	80g/30 deg	WR / I			
727326	TP03	Not Given	1.35	Not Given	D	Brown slightly gravelly sandy CLAY	Atterberg 4 Point	9.1	70	39	-	15	24	80g/30 deg	WR / I			
727327	TP03	Not Given	3.00	Not Given	D	Brownish grey CLAY	Atterberg 4 Point	29.4	100	64	-	24	40	80g/30 deg	N / I			
727328	TP04	Not Given	0.40	0.50	D	Brown slightly gravelly very sandy silty CLAY	Atterberg 4 Point	14.2	83	32	-	21	11	80g/30 deg	R / I			
727329	TP04	Not Given	0.80	1.00	B	Brown slightly gravelly very sandy silty CLAY	Atterberg 4 Point	12.2	89	31	-	20	11	80g/30 deg	WR / I			
727330	TP04	Not Given	1.50	1.60	D	Brownish grey slightly sandy CLAY	Atterberg 4 Point	20.2	100	57	-	24	33	80g/30 deg	N / I			
727331	TP04	Not Given	1.50	2.00	B	Brown slightly gravelly slightly sandy CLAY	Atterberg 4 Point	30.0	99	54	-	22	32	80g/30 deg	WR / I			
727332	TP04	Not Given	2.80	3.00	B	Yellowish brown slightly sandy CLAY	Atterberg 4 Point	31.2	100	51	-	24	27	80g/30 deg	N / I			

Note: # Non accredited; NP - Non plastic; N - Tested in natural condition, R - Tested after >0,425mm removed by hand, WR - Tested after washing to remove >425mm; I - The water content in the sample was increased, D - The water content in the sample was decreased; * - One point liquid limit corrected as per the report Correlation Factor by Clayton C.R.I and Jukes A.W (1978)

Comments:

Signed:

Monika Siewior

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

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SUMMARY REPORT

SUMMARY OF CLASSIFICATION TEST RESULTS

Tested in Accordance with:



4041

Client: Hydrock Consultants Ltd

Client Address: Suite 8, White Building,
1-4 Cumberland Place, Southampton,
Hampshire, SO15 2NP

Contact: Emma Raftery

Site Address: Land North of School Lane, Arborfield Cross

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

BS EN ISO 17892-12:2018+A2:2022 cl 5.3 and 5.5, Fall Cone Method, 4 Pt
Test, BS 1377-2:2022, cl 5.2 and 6. W by BS EN ISO 17892-1:2014+A1:2022.

Client Reference: 333801775

Job Number: 25-057713-1

Date Sampled: 15/10/2025

Date Received: 24/10/2025

Date Tested: 31/10/2025

Sampled By: Not Given

Test results

Laboratory Reference	Hole No.	Sample				Description	Remarks	W	Liquid & Plastic Limit							Density		
		Reference	Depth Top	Depth Base	Type				% Passing 425um	WL*	Correlation Factor	Wp	Ip	Cone type	Sample Preparation	bulk	dry	PD
			m	m					%	%		%	%			Mg/m3	Mg/m3	Mg/m3
727333	TP06	Not Given	1.70	Not Given	D	Brown slightly sandy CLAY	Atterberg 4 Point	23.5	100	50	-	21	29	80g/30 deg	N / I			
727334	TP06	Not Given	2.70	Not Given	D	Brown slightly gravelly slightly sandy CLAY	Atterberg 4 Point	27.7	100	51	-	23	28	80g/30 deg	N / I			
727335	TP07	Not Given	0.40	Not Given	D	Brown clayey SAND	Atterberg 4 Point	10.1	100	24	-	16	8	80g/30 deg	N / I			
727336	TP07	Not Given	2.50	Not Given	D	Brownish grey slightly sandy CLAY	Atterberg 4 Point	27.7	100	52	-	25	27	80g/30 deg	N / I			
727337	TP08	Not Given	2.50	Not Given	D	Brownish grey slightly sandy CLAY	Atterberg 4 Point	33.7	100	56	-	25	31	80g/30 deg	N / I			

Note: # Non accredited; NP - Non plastic; N - Tested in natural condition, R - Tested after >0,425mm removed by hand, WR - Tested after washing to remove >425mm; I - The water content in the sample was increased ,
D - The water content in the sample was decreased; * - One point liquid limit corrected as per the report Correlation Factor by Clayton C.R.I and Jukes A.W (1978)

Comments:

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Signed:

Monika Siewior

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



SUMMARY REPORT

DETERMINATION OF WATER CONTENT

Tested in Accordance with: BS EN ISO 17892-1:2014+A1:2022, BS 1377-2: 2022, clause 4.1



4041

Client: Hydrock Consultants Ltd

Client Address: Suite 8, White Building,
1-4 Cumberland Place, Southampton,
Hampshire, SO15 2NP

Contact: Emma Raftery

Site Address: Land North of School Lane, Arborfield Cross

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

Client Reference: 333801775

Job Number: 25-057713-1

Date Sampled: 15/10/2025

Date Received: 24/10/2025

Date Tested: 30/10 - 31/10/2025

Sampled By: Not Given

Test results

Laboratory Reference	Hole No.	Sample				Description	Remarks	WC											
		Reference	Depth Top m	Depth Base m	Type														
727323	TP02	Not Given	1.20	1.30	D	Brownish grey slightly gravelly slightly sandy CLAY		16.1											
727324	TP02	Not Given	2.00	2.10	D	Brownish grey CLAY		35.2											
727325	TP03	Not Given	0.30	Not Given	D	Brown slightly gravelly very sandy CLAY		9.9											
727326	TP03	Not Given	1.35	Not Given	D	Brown slightly gravelly sandy CLAY		9.1											
727327	TP03	Not Given	3.00	Not Given	D	Brownish grey CLAY		29.4											
727328	TP04	Not Given	0.40	0.50	D	Brown slightly gravelly very sandy silty CLAY		14.2											
727329	TP04	Not Given	0.80	1.00	B	Brown slightly gravelly very sandy silty CLAY		12.2											
727330	TP04	Not Given	1.50	1.60	D	Brownish grey slightly sandy CLAY		20.2											
727331	TP04	Not Given	1.50	2.00	B	Brown slightly gravelly slightly sandy CLAY		30.0											
727332	TP04	Not Given	2.80	3.00	B	Yellowish brown slightly sandy CLAY		31.2											

Comments:

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Signed:

Monika Siewior

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



SUMMARY REPORT
DETERMINATION OF WATER CONTENT

Tested in Accordance with: BS EN ISO 17892-1:2014+A1:2022, BS 1377-2: 2022, clause 4.1



4041
Client: Hydrock Consultants Ltd
Client Address: Suite 8, White Building,
1-4 Cumberland Place, Southampton,
Hampshire, SO15 2NP
Contact: Emma Raftery
Site Address: Land North of School Lane, Arborfield Cross
Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Client Reference: 333801775
Job Number: 25-057713-1
Date Sampled: 15/10/2025
Date Received: 24/10/2025
Date Tested: 31/10/2025
Sampled By: Not Given

Test results

Laboratory Reference	Hole No.	Sample				Description	Remarks	WC											
		Reference	Depth Top m	Depth Base m	Type														
727333	TP06	Not Given	1.70	Not Given	D	Brown slightly sandy CLAY		23.5											
727334	TP06	Not Given	2.70	Not Given	D	Brown slightly gravelly slightly sandy CLAY		27.7											
727335	TP07	Not Given	0.40	Not Given	D	Brown clayey SAND		10.1											
727336	TP07	Not Given	2.50	Not Given	D	Brownish grey slightly sandy CLAY		27.7											
727337	TP08	Not Given	2.50	Not Given	D	Brownish grey slightly sandy CLAY		33.7											

Comments:

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Signed: *Monika Siewior*
Monika Siewior
Senior Reporting Specialist
for and on behalf of i2 Analytical Ltd



TEST CERTIFICATE

DETERMINATION OF THE CALIFORNIA BEARING RATIO (CBR)

Tested in Accordance with: BS 1377-2:2022 Cl. 15



4041

Client: Hydrock Consultants Ltd
Client Address: Suite 8, White Building,
1-4 Cumberland Place, Southampton,
Hampshire, SO15 2NP
Contact: Emma Raftery
Site Address: Land North of School Lane, Arborfield Cross

Client Reference: 333801775
Job Number: 25-057713-1
Date Sampled: 15/10/2025
Date Received: 24/10/2025
Date Tested: 06/11/2025
Sampled By: Not Given

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

Test Results:

Laboratory Reference: 727338
Hole No.: TP01
Sample Reference: Not Given
Sample Description: Brown CLAY

Depth Top [m]: 1.00
Depth Base [m]: 1.20
Sample Type: B

Specimen Preparation:

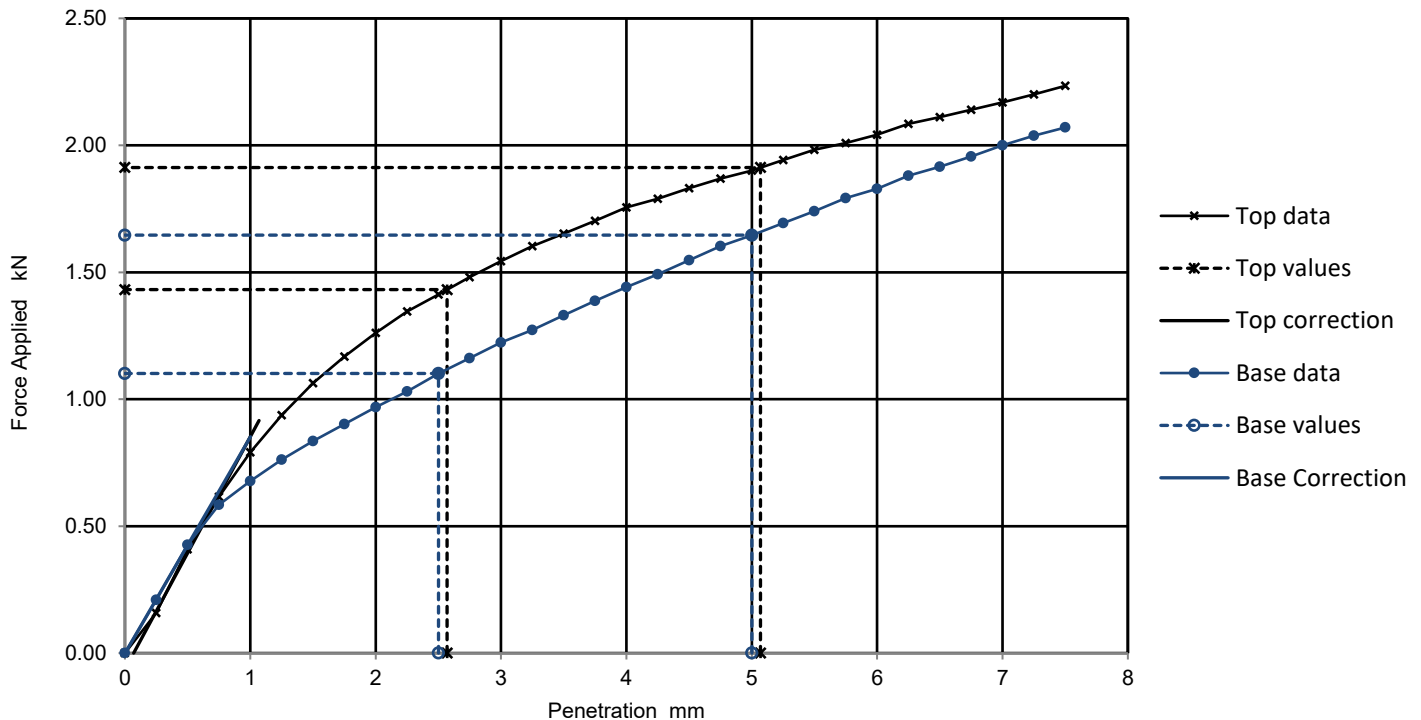
Condition Remoulded
Details Recompacted with specified standard effort using 2.5kg rammer

Soaking details Not soaked
Period of soaking days
Time to surface days
Amount of swell recorded mm
Dry density after soaking Mg/m3

Material retained on 20mm sieve removed 0 %

Initial Specimen details Bulk density 1.95 Mg/m3
Dry density 1.59 Mg/m3
Water content 22.5 %
Surcharge applied 8 kg
4.9 kPa

Force v Penetration Plots



Results

TOP
BASE

Curve correction applied	CBR Values, %			
	2.5mm	5mm	Highest	Average
Yes	11	9.6	11	
Yes	8.3	8.2	8.3	

Water Content %
22.5
21.3

Remarks:

Test/ Specimen specific remarks:

Signed:

Monika Siewior

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

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TEST CERTIFICATE

DETERMINATION OF THE CALIFORNIA BEARING RATIO (CBR)

Tested in Accordance with: BS 1377-2:2022 Cl. 15



4041

Client: Hydrock Consultants Ltd
Client Address: Suite 8, White Building,
1-4 Cumberland Place, Southampton,
Hampshire, SO15 2NP
Contact: Emma Raftery
Site Address: Land North of School Lane, Arborfield Cross

Client Reference: 333801775
Job Number: 25-057713-1
Date Sampled: 15/10/2025
Date Received: 24/10/2025
Date Tested: 04/11/2025
Sampled By: Not Given

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

Test Results:

Laboratory Reference: 727339
Hole No.: TP06
Sample Reference: Not Given
Sample Description: Brown CLAY

Depth Top [m]: 1.50
Depth Base [m]: 1.60
Sample Type: B

Specimen Preparation:

Condition Remoulded
Details Recompacted with specified standard effort using 2.5kg rammer

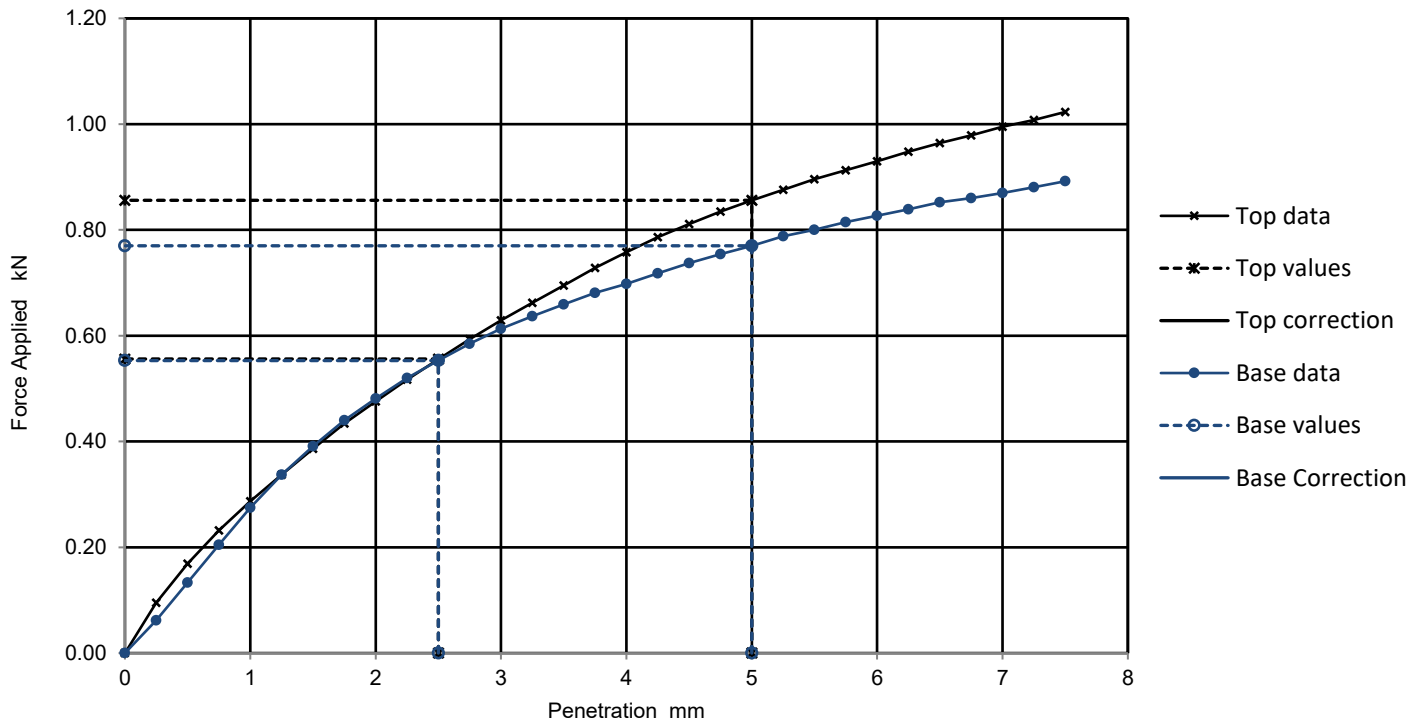
Soaking details Not soaked
Period of soaking days
Time to surface days
Amount of swell recorded mm
Dry density after soaking Mg/m3

Material retained on 20mm sieve removed 0 %

Initial Specimen details Bulk density 1.93 Mg/m3
Dry density 1.52 Mg/m3
Water content 26.6 %

Surcharge applied 8 kg
4.8 kPa

Force v Penetration Plots



Results

TOP
BASE

Curve correction applied	CBR Values, %			
	2.5mm	5mm	Highest	Average
No	4.2	4.3	4.3	4.2
No	4.2	3.9	4.2	

Water Content %
25.7
26.2

Remarks:

Test/ Specimen specific remarks:

Signed:

Monika Siewior

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

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Date Reported: 07/11/2025

GF 593.3



TEST CERTIFICATE

DETERMINATION OF THE CALIFORNIA BEARING RATIO (CBR)

Tested in Accordance with: BS 1377-2:2022 Cl. 15



4041

Client: Hydrock Consultants Ltd
Client Address: Suite 8, White Building,
1-4 Cumberland Place, Southampton,
Hampshire, SO15 2NP
Contact: Emma Raftery
Site Address: Land North of School Lane, Arborfield Cross

Client Reference: 333801775
Job Number: 25-057713-1
Date Sampled: 15/10/2025
Date Received: 24/10/2025
Date Tested: 05/11/2025
Sampled By: Not Given

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

Test Results:

Laboratory Reference: 727340
Hole No.: TP08
Sample Reference: Not Given
Sample Description: Yellowish brown CLAY

Depth Top [m]: 2.00
Depth Base [m]: 2.50
Sample Type: B

Specimen Preparation:

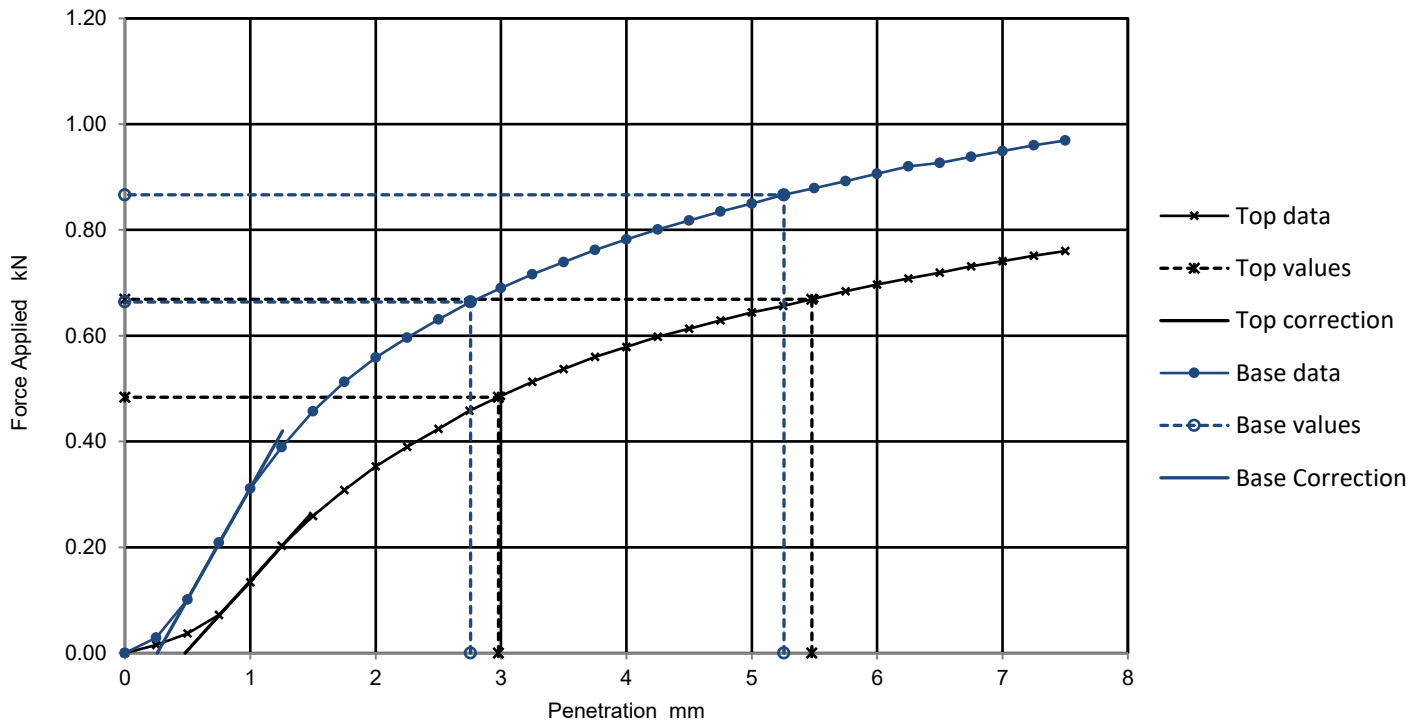
Condition Remoulded
Details Recompacted with specified standard effort using 2.5kg rammer

Soaking details Not soaked
Period of soaking days
Time to surface days
Amount of swell recorded mm
Dry density after soaking Mg/m3

Material retained on 20mm sieve removed 0 %

Initial Specimen details Bulk density 1.96 Mg/m3
Dry density 1.54 Mg/m3
Water content 27.2 %
Surcharge applied 8 kg
4.9 kPa

Force v Penetration Plots



Results

TOP
BASE

Curve correction applied	CBR Values, %			
	2.5mm	5mm	Highest	Average
Yes	3.7	3.3	3.7	
Yes	5	4.3	5	

Water Content %
26.8
26.9

Remarks:

Test/ Specimen specific remarks:

Signed:

Monika Siewior

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

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Page 1 of 1

Date Reported: 07/11/2025

GF 593.3



TEST CERTIFICATE

DETERMINATION OF THE CALIFORNIA BEARING RATIO (CBR)

Tested in Accordance with: BS 1377-2:2022 Cl. 15



4041

Client: Hydrock Consultants Ltd
Client Address: Suite 8, White Building,
1-4 Cumberland Place, Southampton,
Hampshire, SO15 2NP
Contact: Emma Raftery
Site Address: Land North of School Lane, Arborfield Cross

Client Reference: 333801775
Job Number: 25-057713-1
Date Sampled: 15/10/2025
Date Received: 24/10/2025
Date Tested: 04/11/2025
Sampled By: Not Given

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

Test Results:

Laboratory Reference: 727341
Hole No.: TP01
Sample Reference: Not Given
Sample Description: Brown CLAY

Depth Top [m]: 2.00
Depth Base [m]: 2.20
Sample Type: B

Specimen Preparation:

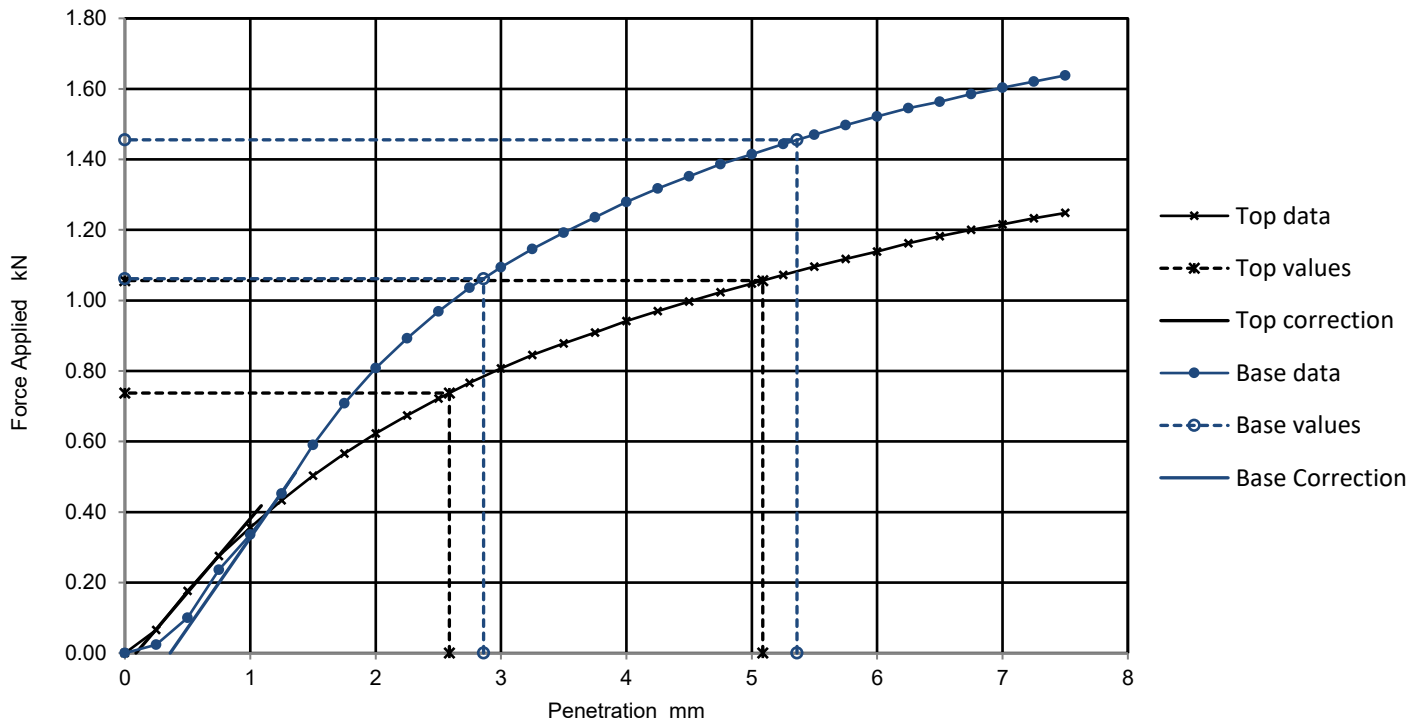
Condition Remoulded
Details Recompacted with specified standard effort using 2.5kg rammer

Soaking details Not soaked
Period of soaking days
Time to surface days
Amount of swell recorded mm
Dry density after soaking Mg/m3

Material retained on 20mm sieve removed 0 %

Initial Specimen details Bulk density 1.96 Mg/m3
Dry density 1.56 Mg/m3
Water content 25.5 %
Surcharge applied 8 kg
4.8 kPa

Force v Penetration Plots



Results

TOP
BASE

Curve correction applied	CBR Values, %			
	2.5mm	5mm	Highest	Average
Yes	5.6	5.3	5.6	
Yes	8	7.3	8	

Water Content %
25.5
24.1

Remarks:

Test/ Specimen specific remarks:

Signed:

Monika Siewior

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

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TEST CERTIFICATE

DETERMINATION OF THE CALIFORNIA BEARING RATIO (CBR)

Tested in Accordance with: BS 1377-2:2022 Cl. 15



4041

Client: Hydrock Consultants Ltd
Client Address: Suite 8, White Building,
1-4 Cumberland Place, Southampton,
Hampshire, SO15 2NP
Contact: Emma Raftery
Site Address: Land North of School Lane, Arborfield Cross

Client Reference: 333801775
Job Number: 25-057713-1
Date Sampled: 15/10/2025
Date Received: 24/10/2025
Date Tested: 05/11/2025
Sampled By: Not Given

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

Test Results:

Laboratory Reference: 727342
Hole No.: TP03
Sample Reference: Not Given
Sample Description: Brown CLAY

Depth Top [m]: 2.80
Depth Base [m]: 3.00
Sample Type: B

Specimen Preparation:

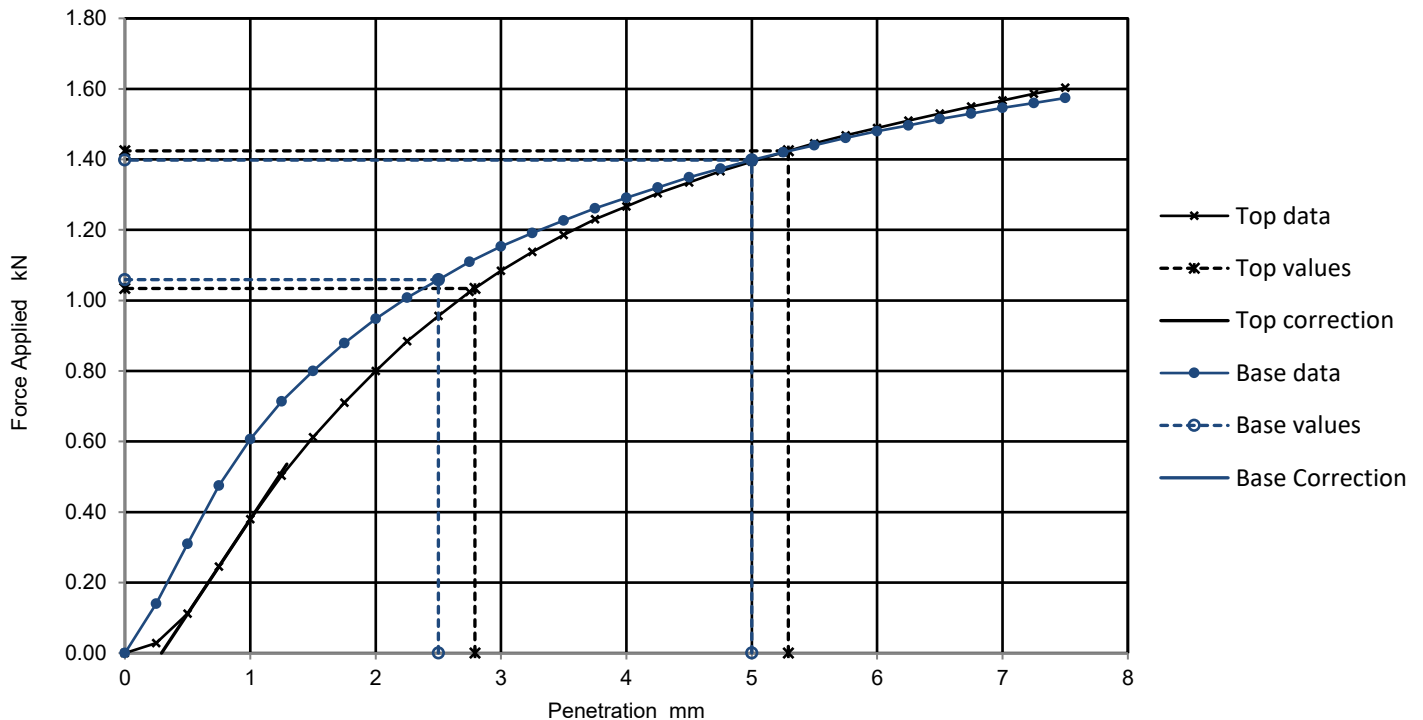
Condition Remoulded
Details Recompacted with specified standard effort using 2.5kg rammer

Soaking details Not soaked
Period of soaking days
Time to surface days
Amount of swell recorded mm
Dry density after soaking Mg/m3

Material retained on 20mm sieve removed 0 %

Initial Specimen details Bulk density 1.93 Mg/m3
Dry density 1.52 Mg/m3
Water content 26.9 %
Surcharge applied 8 kg
4.9 kPa

Force v Penetration Plots



Results

TOP
BASE

Curve correction applied	CBR Values, %			
	2.5mm	5mm	Highest	Average
Yes	7.8	7.1	7.8	7.9
No	8	7	8	

Water Content %
27.5
26.8

Remarks:

Test/ Specimen specific remarks:

Signed:

Monika Siewior

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

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TEST CERTIFICATE

DETERMINATION OF THE CALIFORNIA BEARING RATIO (CBR)

Tested in Accordance with: BS 1377-2:2022 Cl. 15



4041

Client: Hydrock Consultants Ltd
Client Address: Suite 8, White Building,
1-4 Cumberland Place, Southampton,
Hampshire, SO15 2NP
Contact: Emma Raftery
Site Address: Land North of School Lane, Arborfield Cross

Client Reference: 333801775
Job Number: 25-057713-1
Date Sampled: 15/10/2025
Date Received: 24/10/2025
Date Tested: 04/11/2025
Sampled By: Not Given

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

Test Results:

Laboratory Reference: 727343
Hole No.: TP06
Sample Reference: Not Given
Sample Description: Brown CLAY

Depth Top [m]: 2.50
Depth Base [m]: 2.60
Sample Type: B

Specimen Preparation:

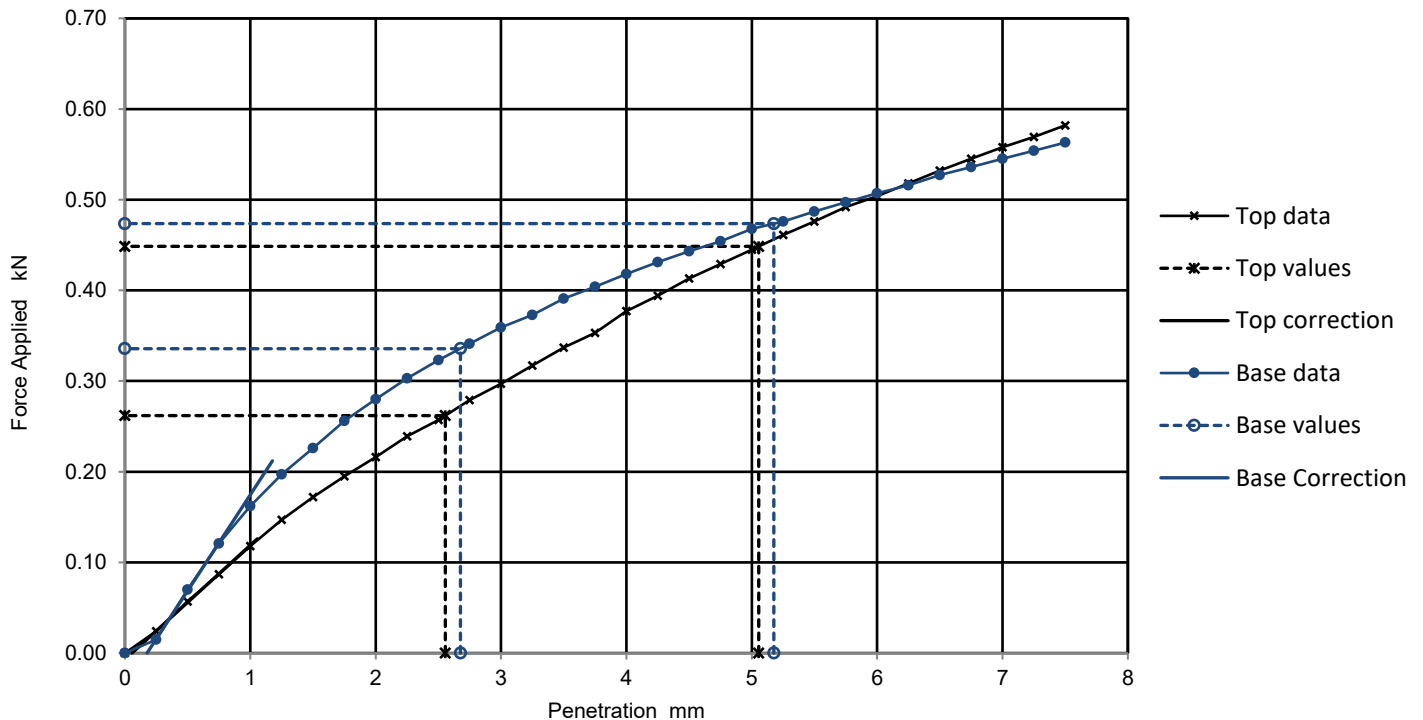
Condition Remoulded
Details Recompacted with specified standard effort using 2.5kg rammer

Soaking details Not soaked
Period of soaking days
Time to surface days
Amount of swell recorded mm
Dry density after soaking Mg/m3

Material retained on 20mm sieve removed 0 %

Initial Specimen details Bulk density 1.91 Mg/m3
Dry density 1.49 Mg/m3
Water content 27.9 %
Surcharge applied 8 kg
4.8 kPa

Force v Penetration Plots



Results

TOP
BASE

Curve correction applied	CBR Values, %			
	2.5mm	5mm	Highest	Average
Yes	2	2.2	2.2	2.4
Yes	2.5	2.4	2.5	

Water Content %
28
28.1

Remarks:

Test/ Specimen specific remarks:

Signed:

Monika Siewior

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

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TEST CERTIFICATE

Determination of TRL Dynamic Cone Penetrometer

Tested in accordance with In TRL Road Note 31 & 8 and IAN 73/06 (2009 amendment)

Stantec UK Limited
Third Floor
White Building
1-4 Cumberland Place
Southampton
SO15 2NP
United Kingdom

Email: Southampton@Stantec.com

Client: Croudace Homes
Client Address: Croudace Homes
Tupwood Lane
Caterham
Postcode: CR3 6XQ
Contact:
Site Name: Land to the north of School Road
Site Address: Arborfield Cross, RH14 4TN

Certificate Number: DCP01

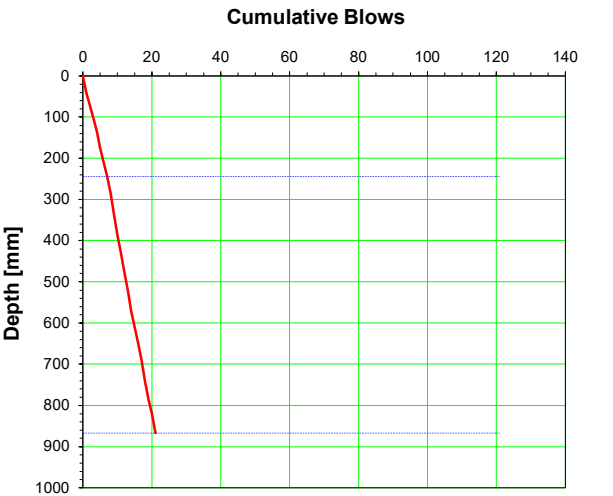
Client Reference:
Job Number: 333801678
Date Received: 13/10/2025
Date Tested: 13/10/2025

Test Results:

Sample Description:

Sample Number: DCP01
Start Depth [mm]: 50
Test Location: DCP01

Layer	No of Blows	Cumulative Blows	CBR [%]	Layer Thickness [mm]	Total Depth [mm]
Topsoil	8	7	8	244	244
RTD	14	21	5	623	867



Comments: TRL Equation : $\log_{10}(\text{CBR}) = 2.480 - 1.057 \times \log_{10}(\text{Strength})$

Approved Signatory: K Barker

Position: Technical Associate

Date Reported: 17 October 2025
Form Number: HD-TRL-DCP ver1

Page 1 of 1

for and behalf of
Stantec UK Limited

TEST CERTIFICATE

Determination of TRL Dynamic Cone Penetrometer

Tested in accordance with In TRL Road Note 31 & 8 and IAN 73/06 (2009 amendment)

Stantec UK Limited
Third Floor
White Building
1-4 Cumberland Place
Southampton
SO15 2NP
United Kingdom

Email: Southampton@Stantec.com

Client: Croudace Homes

Client Address: Croudace Homes
Tupwood Lane
Caterham

Postcode: CR3 6XQ

Contact:

Site Name: Land to the north of South Road

Site Address: Arborfield Cross, RH14 4TN

Certificate Number: DCP02

Client Reference:

Job Number: 333801678

Date Received: 13/10/2025

Date Tested: 13/10/2025

Test Results:

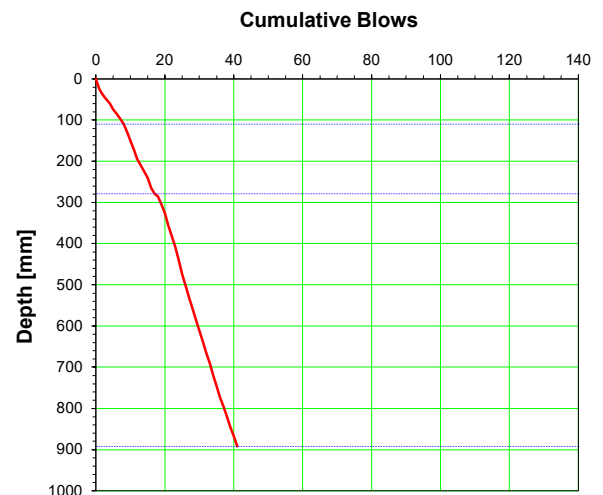
Sample Description:

Sample Number: DCP02

Start Depth [mm]: 25

Test Location: DCP02

Layer	No of Blows	Cumulative Blows	CBR [%]	Layer Thickness [mm]	Total Depth [mm]
Topsoil	8	8	19	110	110
RTD	9	17	14	169	279
LCF	24	41	10	613	892



Comments: TRL Equation : $\log_{10}(\text{CBR}) = 2.480 - 1.057 \times \log_{10}(\text{Strength})$

Approved Signatory: K Barker

Position: Technical Associate

Date Reported: 17 October 2025
Form Number: HD-TRL-DCP ver1

Page 1 of 1

for and behalf of
Stantec UK Limited

TEST CERTIFICATE

Determination of TRL Dynamic Cone Penetrometer

Tested in accordance with In TRL Road Note 31 & 8 and IAN 73/06 (2009 amendment)

Stantec UK Limited
Third Floor
White Building
1-4 Cumberland Place
Southampton
SO15 2NP
United Kingdom

Email: Southampton@Stantec.com

Client: Croudace Homes

Client Address: Croudace Homes
Tupwood Lane
Caterham

Postcode: CR3 6XQ

Contact:

Site Name: Land to the north of School Road

Site Address: Arborfield Cross, RH14 4TN

Certificate Number: DCP03

Client Reference:

Job Number: 333801678

Date Received: 13/10/2025

Date Tested: 13/10/2025

Test Results:

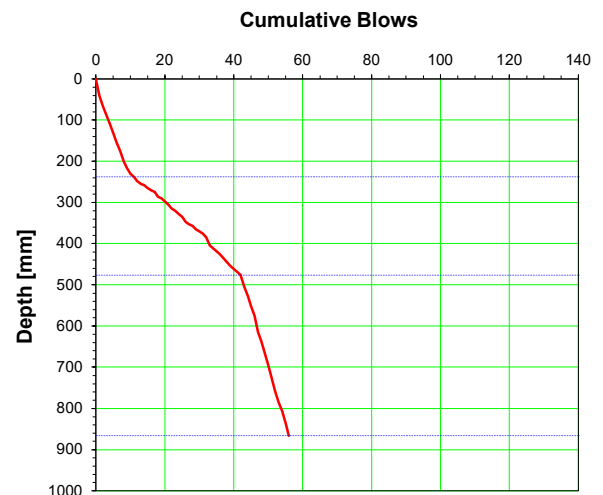
Sample Description:

Sample Number: DCP03

Start Depth [mm]: 55

Test Location: DCP03

Layer	No of Blows	Cumulative Blows	CBR [%]	Layer Thickness [mm]	Total Depth [mm]
Topsoil	11	11	12	238	238
RTD	31	42	35	238	476
LCF	14	56	9	390	866



Comments: TRL Equation : $\log_{10}(\text{CBR}) = 2.480 - 1.057 \times \log_{10}(\text{Strength})$

Approved Signatory: K Barker

Position: Technical Associate

Date Reported: 17 October 2025
Form Number: HD-TRL-DCP ver1

Page 1 of 1

for and behalf of
Stantec UK Limited

TEST CERTIFICATE

Determination of TRL Dynamic Cone Penetrometer

Tested in accordance with In TRL Road Note 31 & 8 and IAN 73/06 (2009 amendment)

Stantec UK Limited
Third Floor
White Building
1-4 Cumberland Place
Southampton
SO15 2NP
United Kingdom

Email: Southampton@Stantec.com

Client: Croudace Homes

Client Address: Croudace Homes
Tupwood Lane
Caterham

Postcode: CR3 6XQ

Contact:

Site Name: Land to the north of School Road
Site Address: Arborfield Cross, RH14 4TN

Certificate Number: DCP04

Client Reference:

Job Number: 333801678

Date Received: 13/10/2025

Date Tested: 13/10/2025

Test Results:

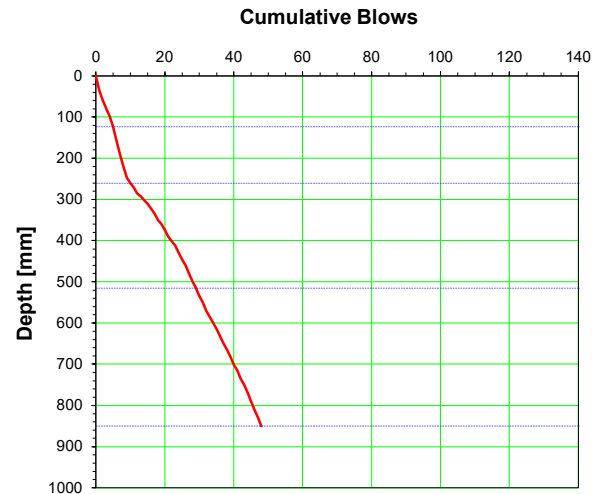
Sample Description:

Sample Number: DCP04

Start Depth [mm]: 60

Test Location: DCP04

Layer	No of Blows	Cumulative Blows	CBR [%]	Layer Thickness [mm]	Total Depth [mm]
Topsoil	5	5	10	124	124
Topsoil	5	10	9	136	260
RTD	19	29	19	255	515
LCF	19	48	15	335	850



Comments: TRL Equation : $\log_{10}(\text{CBR}) = 2.480 - 1.057 \times \log_{10}(\text{Strength})$

Approved Signatory: K Barker

Position: Technical Associate

Date Reported: 17 October 2025
Form Number: HD-TRL-DCP ver1

Page 1 of 1

for and behalf of
Stantec UK Limited

TEST CERTIFICATE

Determination of TRL Dynamic Cone Penetrometer

Tested in accordance with In TRL Road Note 31 & 8 and IAN 73/06 (2009 amendment)

Stantec UK Limited
Third Floor
White Building
1-4 Cumberland Place
Southampton
SO15 2NP
United Kingdom

Email: Southampton@Stantec.com

Client: Croudace Homes

Client Address: Croudace Homes
Tupwood Lane
Caterham

Postcode: CR3 6XQ

Contact:

Site Name: Land to the north of School Road

Site Address: Arborfield Cross, RH41 4TN

Certificate Number: DCP05

Client Reference:

Job Number: 333801678

Date Received: 13/10/2025

Date Tested: 13/10/2025

Test Results:

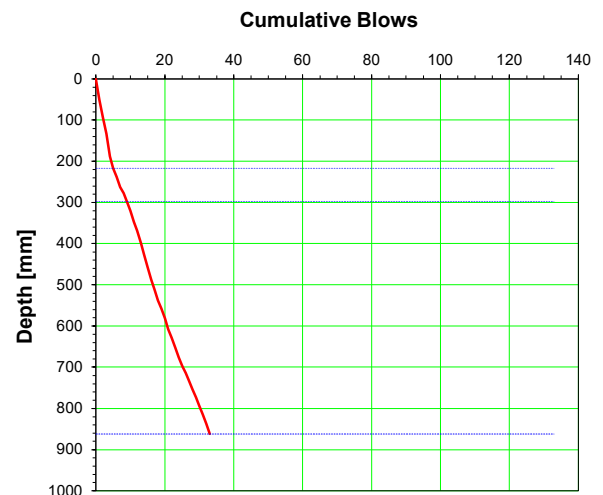
Sample Description:

Sample Number: DCP05

Start Depth [mm]: 52

Test Location: DCP05

Layer	No of Blows	Cumulative Blows	CBR [%]	Layer Thickness [mm]	Total Depth [mm]
Topsoil	4	5	4	217	217
RTD	4	9	13	81	298
RTD	24	33	11	564	862



Comments: TRL Equation : $\log_{10}(\text{CBR}) = 2.480 - 1.057 \times \log_{10}(\text{Strength})$

Approved Signatory: K Barker

Position: Technical Associate

Date Reported: 17 October 2025
Form Number: HD-TRL-DCP ver1

Page 1 of 1

for and behalf of
Stantec UK Limited

Appendix D Site Monitoring Data



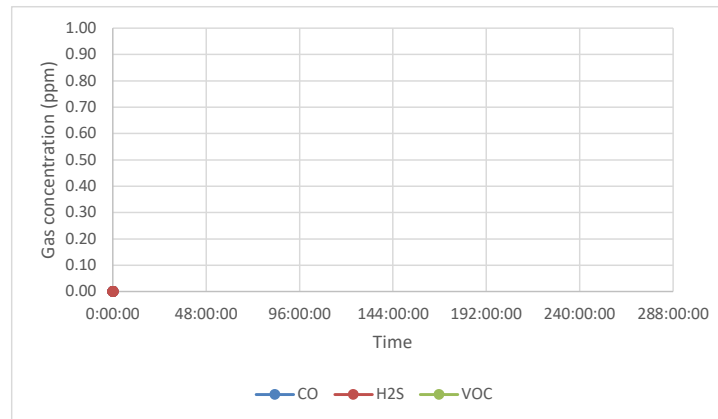
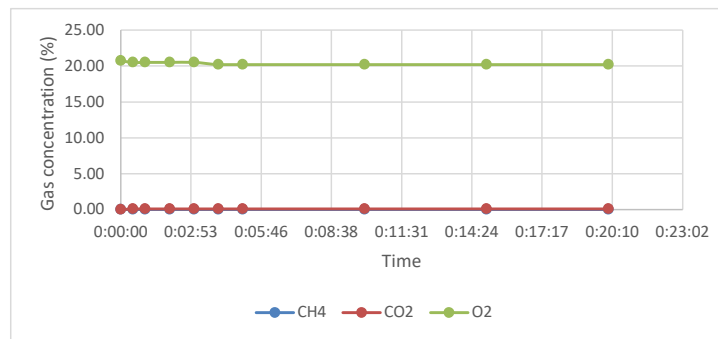
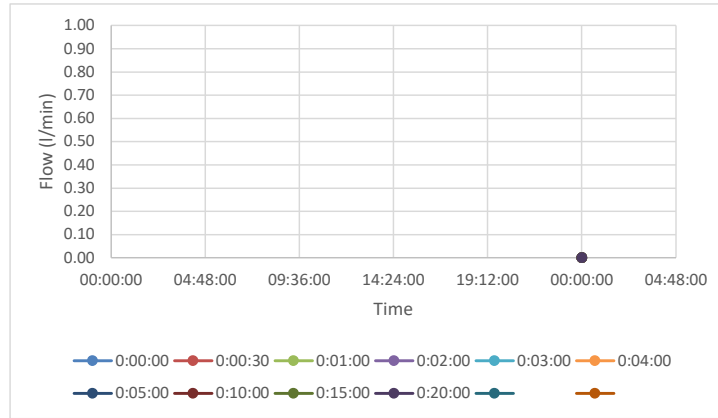
Ground Gas Monitoring Form

Project Details			
Project Name:	Aborfield Cross	Project Number:	333801775
Visit Details			
Date:	20/10/2025	Weather:	Sunny and cloudy
Time:	08:30	Monitoring Round:	1 of 3
Comments:		Recorded by:	ER
Well Details			
Monitoring point ID:	WS01	Casing Level above GL (m):	0.41
Single or dual gas tap:	Single	Top of Screen (m bgl):	0.59
Pipe Material:		Base of Screen (m bgl):	4.59
Pipe Diameter D (mm):		Top of Screen (m b.casing):	1.00
Hole Diameter R (mm):		Base of Screen (m b.casing):	5.00
Equipment Details			
Gas Analyser Model:	GFM	Instrument Serial Number:	
Calibration Date:	23/10/2026	Span gas check ok:	
PID instrument:		Instrument Serial Number:	
Calibration Date:		Calibration check ok:	
Well conditons:			

Good condition. Gas tap closed

Well measurement readings								
Parameter Details - for Not Recorded use "NR" and explain why in Well Conditions. For non-detect use the displayed value.								
Time (hh:mm:ss)	Relative BH pressure (hPA/mb)	Borehole flow (litres/hour)	CH4 (%)	CO2 (%)	O2 (%)	CO (ppm)	H2S (ppm)	VOC (ppm)
0:00:00	986	0.00	0.00	0.00	20.70	0.00	0.00	
0:00:30	-	0.00	0.00	0.10	20.50	0.00	0.00	
0:01:00	-	0.00	0.00	0.10	20.50	0.00	0.00	
0:02:00	-	0.00	0.00	0.10	20.50	0.00	0.00	
0:03:00	-	0.00	0.00	0.10	20.50	0.00	0.00	
0:04:00	-	0.00	0.00	0.10	20.20	0.00	0.00	
0:05:00	-	0.00	0.00	0.10	20.20	0.00	0.00	
0:10:00	-	0.00	0.00	0.10	20.20	0.00	0.00	
0:15:00	-	0.00	0.00	0.10	20.20	0.00	0.00	
0:20:00	-	0.00	0.00	0.10	20.20	0.00	0.00	
Steady State		0.00	0.00	0.10	20.50	0.00	0.00	
Ambient readings								
Atmospheric pressure (mb):	986.00							
Ambient concentrations:			CH4	CO2	O2	CO	H2S	VOC
			0.00	0.00	20.80	0.00	0.00	
Observations during monitoring								
Vapour/Gas Samples (note Sample Ref must include monitoring round as prefix)								
Sample Depth (mbgl):	Sample Ref:	Sample Type:	Container Type:	Sample Size (l):	Starting vacuum:	End vacuum:	Sampling Rate (l/min):	
QA/QC Samples								
☐ Duplicate								
☐ Triplicate								
Groundwater Gauging:								
Equipment Details:								
Dipmeter type:					Instrument serial number:			
Monitoring Data								
Monitoring Datum					Water Level Depth (m bd):	2.70		
NAPL Gauging:	LNAPL		DNAPL		Measured Well Depth (m bd):	5.10		
Depth to NAPL (m bd):					Water level depth (m bgl)	2.29		
NAPL Thickness (mm):					Well Depth (m bgl):	4.69		

Ground Gas Monitoring Form



Ground Gas Monitoring Form

Project Details			
Project Name:	Aborfield Cross	Project Number:	333801775
Visit Details			
Date:	20/10/2025	Weather:	Sunny & cloudy
Time:	09:00	Monitoring Round:	1 of 3
Comments:		Recorded by:	ER
Well Details			
Monitoring point ID:	WS02	Casing Level above GL (m):	0.35
Single or dual gas tap:	Single	Top of Screen (m bgl):	0.65
Pipe Material:		Base of Screen (m bgl):	4.65
Pipe Diameter D (mm):		Top of Screen (m b.casing):	1.00
Hole Diameter R (mm):		Base of Screen (m b.casing):	5.00
Expected headspace air volume:			
Equipment Details			
Gas Analyser Model:	GFM	Instrument Serial Number:	
Calibration Date:	23/10/2026	Span gas check ok:	
PID instrument:		Instrument Serial Number:	
Calibration Date:		Calibration check ok:	
Well conditons:			

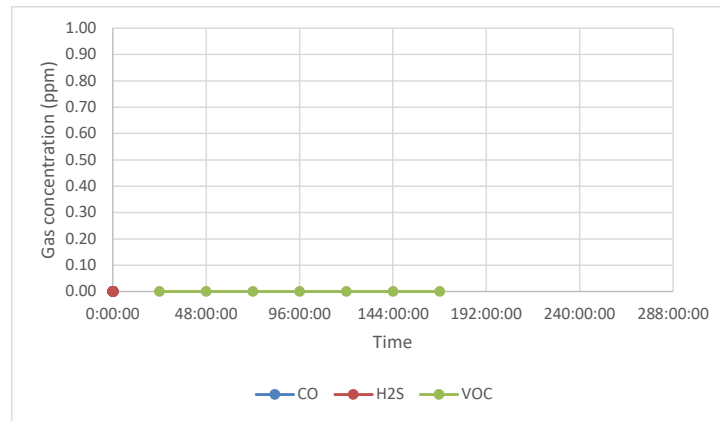
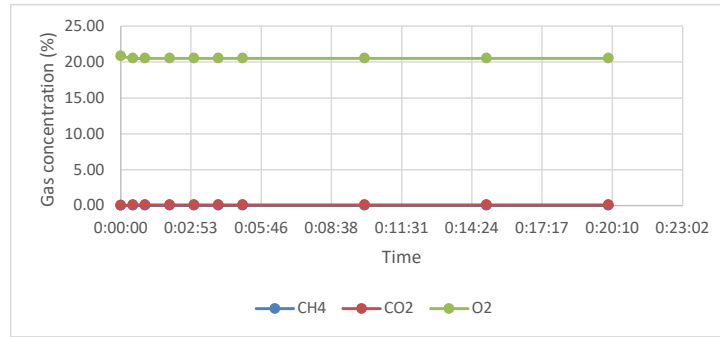
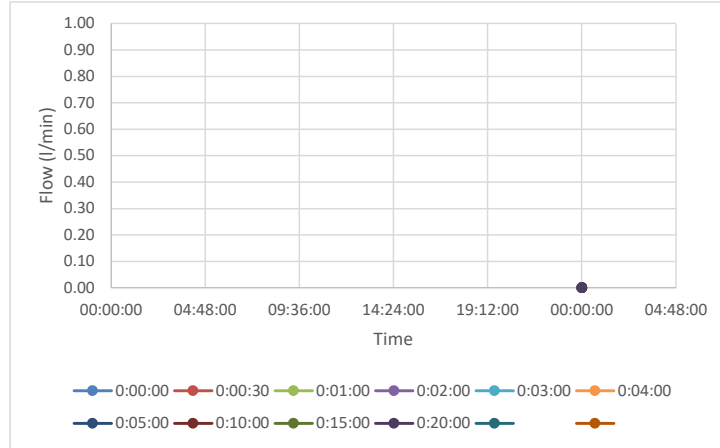
Good condition. Gas tap closed

Well measurement readings								
Parameter Details - for Not Recorded use "NR" and explain why in Well Conditions. For non-detect use the displayed value.								
Time (hh:mm:ss)	Relative BH pressure (hPA/mb)	Borehole flow (litres/hour)	CH4 (%)	CO2 (%)	O2 (%)	CO (ppm)	H2S (ppm)	VOC (ppm)
0:00:00	986	0.00	0.00	0.00	20.80	0.00	0.00	-
0:00:30	-	0.00	0.00	0.10	20.50	0.00	0.00	-
0:01:00	-	0.00	0.00	0.10	20.50	0.00	0.00	-
0:02:00	-	0.00	0.00	0.10	20.50	0.00	0.00	-
0:03:00	-	0.00	0.00	0.10	20.50	0.00	0.00	-
0:04:00	-	0.00	0.00	0.10	20.50	0.00	0.00	-
0:05:00	-	0.00	0.00	0.10	20.50	0.00	0.00	-
0:10:00	-	0.00	0.00	0.10	20.50	0.00	0.00	
0:15:00	-	0.00	0.00	0.10	20.50	0.00	0.00	
0:20:00	-	0.00	0.00	0.10	20.50	0.00	0.00	
	-							
	-							
Steady State		0.00	0.00	0.10	20.50	0.00	0.00	
Ambient readings								
Atmospheric pressure (mb):	986.00							
Ambient concentrations:			CH4	CO2	O2	CO	H2S	VOC
			0.00	0.10	20.80	0.00	0.00	
Observations during monitoring								
<<< LEL. Stable after 5 mins								

Vapour/Gas Samples (note Sample Ref must include monitoring round as prefix)

Sample Depth (mbgl):	Sample Ref:	Sample Type:	Container Type:	Sample Size (l):	Starting vacuum:	End vacuum:	Sampling Rate (l/min):
QA/QC Samples							
☐ Duplicate							
☐ Triplicate							
Groundwater Gauging:							
Equipment Details:							
Dipmeter type:					Instrument serial number:		
Monitoring Data							
Monitoring Datum					Water Level Depth (m bd):	4.20	
NAPL Gauging:	LNAPL		DNAPL		Measured Well Depth (m bd):	5.04	
Depth to NAPL (m bd):					Water level depth (m bgl)	3.85	
NAPL Thickness (mm):					Well Depth (m bgl):	4.69	

Ground Gas Monitoring Form



Ground Gas Monitoring Form

Project Details			
Project Name:	Aborfield Cross	Project Number:	333801775
Visit Details			
Date:	20/10/2025	Weather:	Sunny & Cloudy
Time:	09:30	Monitoring Round:	1 of 3
Comments:		Recorded by:	ER
Well Details			
Monitoring point ID:	WS03	Casing Level above GL (m):	0.36
Single or dual gas tap:	Single	Top of Screen (m bgl):	
Pipe Material:		Base of Screen (m bgl):	
Pipe Diameter D (mm):		Top of Screen (m b.casing):	
Hole Diameter R (mm):		Base of Screen (m b.casing):	
Expected headspace air volume:			
Equipment Details			
Gas Analyser Model:	GFM	Instrument Serial Number:	
Calibration Date:	23/10/2026	Span gas check ok:	
PID instrument:		Instrument Serial Number:	
Calibration Date:		Calibration check ok:	
Well conditons:			

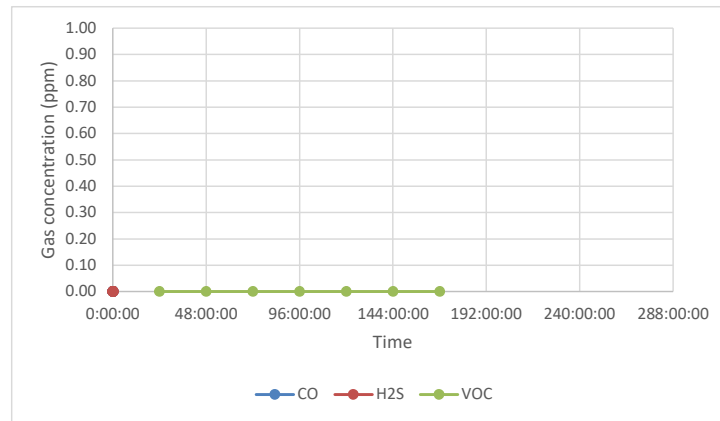
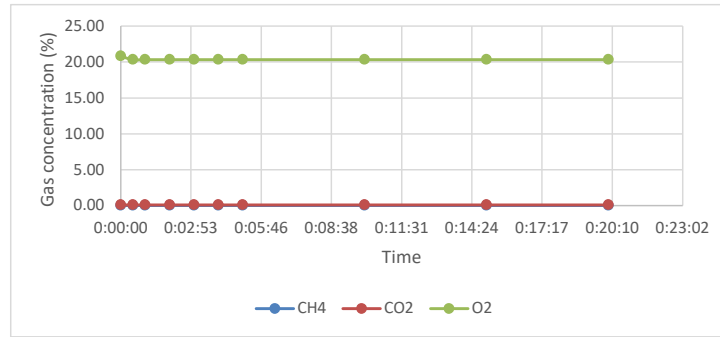
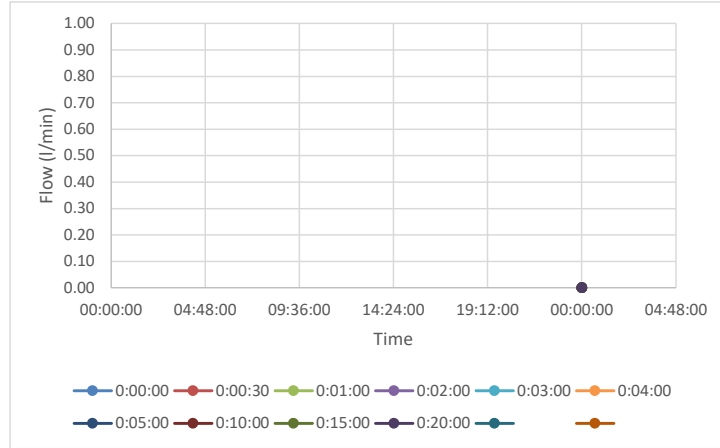
Good condition. Gas tap closed

Well measurement readings								
Parameter Details - for Not Recorded use "NR" and explain why in Well Conditions. For non-detect use the displayed value.								
Time (hh:mm:ss)	Relative BH pressure (hPA/mb)	Borehole flow (litres/hour)	CH4 (%)	CO2 (%)	O2 (%)	CO (ppm)	H2S (ppm)	VOC (ppm)
0:00:00	932	0.00	0.00	0.10	20.80	0.00	0.00	-
0:00:30	-	0.00	0.00	0.10	20.30	0.00	0.00	-
0:01:00	-	0.00	0.00	0.10	20.30	0.00	0.00	-
0:02:00	-	0.00	0.00	0.10	20.30	0.00	0.00	-
0:03:00	-	0.00	0.00	0.10	20.30	0.00	0.00	-
0:04:00	-	0.00	0.00	0.10	20.30	0.00	0.00	-
0:05:00	-	0.00	0.00	0.10	20.30	0.00	0.00	-
0:10:00	-	0.00	0.00	0.10	20.30	0.00	0.00	
0:15:00	-	0.00	0.00	0.10	20.30	0.00	0.00	
0:20:00	-	0.00	0.00	0.10	20.30	0.00	0.00	
	-							
	-							
Steady State		0.00						
Ambient readings								
Atmospheric pressure (mb):	986.00							
Ambient concentrations:			CH4	CO2	O2	CO	H2S	VOC
			0.00	0.10	20.80	0.00	0.00	-
Observations during monitoring								
<<< LEL. Stable after 5 mins								

Vapour/Gas Samples (note Sample Ref must include monitoring round as prefix)

Sample Depth (mbgl):	Sample Ref:	Sample Type:	Container Type:	Sample Size (l):	Starting vacuum:	End vacuum:	Sampling Rate (l/min):
QA/QC Samples							
☐ Duplicate							
☐ Triplicate							
Groundwater Gauging:							
Equipment Details:							
Dipmeter type:					Instrument serial number:		
Monitoring Data							
Monitoring Datum				Water Level Depth (m bd):		3.45	
NAPL Gauging:	LNAPL		DNAPL	Measured Well Depth (m bd):		5.07	
Depth to NAPL (m bd):				Water level depth (m bgl)		3.09	
NAPL Thickness (mm):				Well Depth (m bgl):		4.71	

Ground Gas Monitoring Form



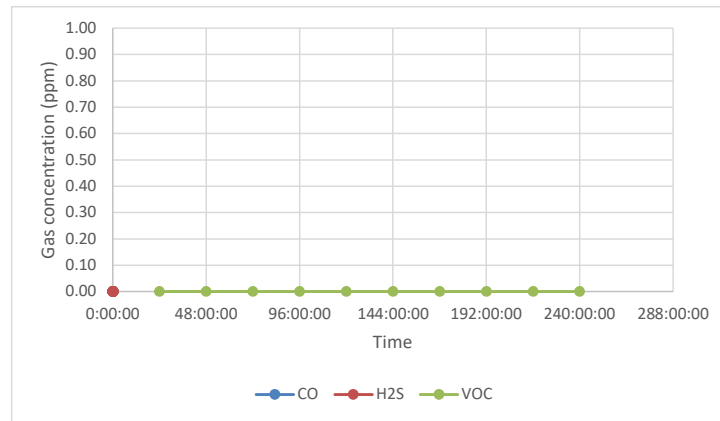
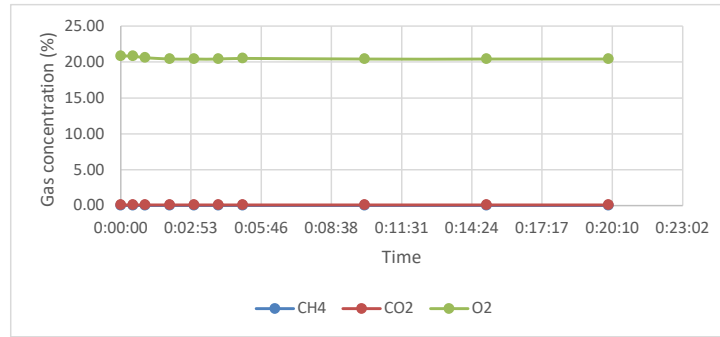
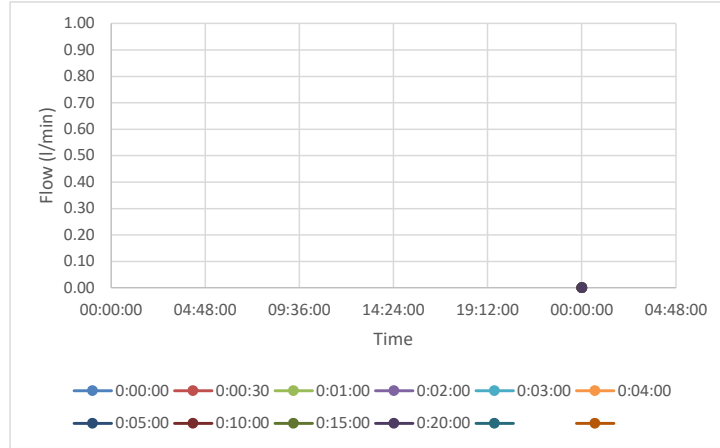
Ground Gas Monitoring Form

Project Details			
Project Name:	Aborfield Cross	Project Number:	333801775
Visit Details			
Date:	20/10/2025	Weather:	Sunny & cloudy
Time:	10:00	Monitoring Round:	1 of 3
Comments:		Recorded by:	ER
Well Details			
Monitoring point ID:	WS05	Casing Level above GL (m):	0.46
Single or dual gas tap:	Single	Top of Screen (m bgl):	0.55
Pipe Material:		Base of Screen (m bgl):	4.55
Pipe Diameter D (mm):		Top of Screen (m b.casing):	1.00
Hole Diameter R (mm):		Base of Screen (m b.casing):	5.00
Expected headspace air volume:			
Equipment Details			
Gas Analyser Model:	GFM	Instrument Serial Number:	
Calibration Date:	23/10/2025	Span gas check ok:	
PID instrument:		Instrument Serial Number:	
Calibration Date:		Calibration check ok:	
Well conditons:			

Good condition. Gas tap closed

Well measurement readings								
Parameter Details - for Not Recorded use "NR" and explain why in Well Conditions. For non-detect use the displayed value.								
Time (hh:mm:ss)	Relative BH pressure (hPA/mb)	Borehole flow (litres/hour)	CH4 (%)	CO2 (%)	O2 (%)	CO (ppm)	H2S (ppm)	VOC (ppm)
0:00:00	983	0.00	0.00	0.10	20.80	0.00	0.00	-
0:00:30	-	0.00	0.00	0.10	20.80	0.00	0.00	-
0:01:00	-	0.00	0.00	0.10	20.60	0.00	0.00	-
0:02:00	-	0.00	0.00	0.10	20.40	0.00	0.00	-
0:03:00	-	0.00	0.00	0.10	20.40	0.00	0.00	-
0:04:00	-	0.00	0.00	0.10	20.40	0.00	0.00	-
0:05:00	-	0.00	0.00	0.10	20.50	0.00	0.00	-
0:10:00	-	0.00	0.00	0.10	20.40	0.00	0.00	-
0:15:00	-	0.00	0.00	0.10	20.40	0.00	0.00	-
0:20:00	-	0.00	0.00	0.10	20.40	0.00	0.00	-
	-							-
	-							-
Steady State		0.00	0.00			0.00	0.00	-
Ambient readings								
Atmospheric pressure (mb):	997.00							
Ambient concentrations:			CH4	CO2	O2	CO	H2S	VOC
			0.10	0.20	20.80	0.00	0.00	
Observations during monitoring								
<<< LEL.								
Vapour/Gas Samples (note Sample Ref must include monitoring round as prefix)								
Sample Depth (mbgl):	Sample Ref:	Sample Type:	Container Type:	Sample Size (l):	Starting vacuum:	End vacuum:	Sampling Rate (l/min):	
QA/QC Samples								
☐ Duplicate								
☐ Triplicate								
Groundwater Gauging:								
Equipment Details:								
Dipmeter type:					Instrument serial number:			
Monitoring Data								
Monitoring Datum					Water Level Depth (m bd):		5.00	
NAPL Gauging:	LNAPL		DNAPL		Measured Well Depth (m bd):		5.02	
Depth to NAPL (m bd):					Water level depth (m bgl)		4.55	
NAPL Thickness (mm):					Well Depth (m bgl):		4.57	

Ground Gas Monitoring Form



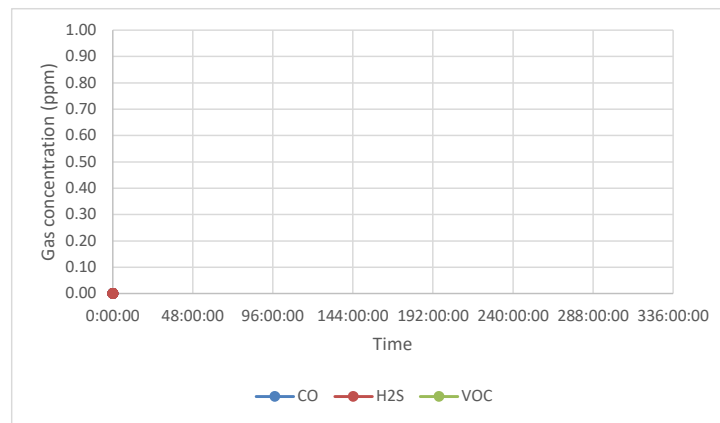
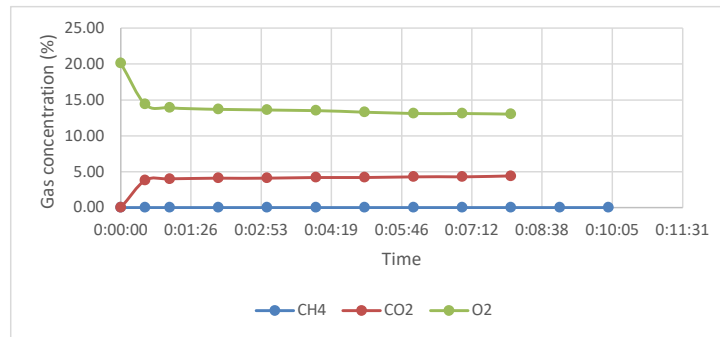
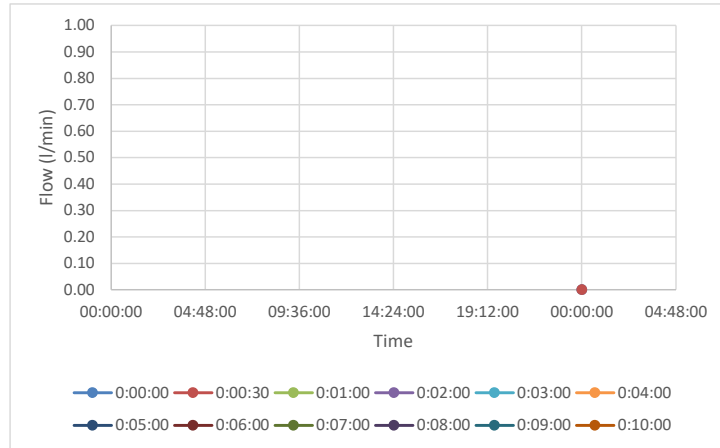
Ground Gas Monitoring Form

Project Details			
Project Name:	Aborfield Cross	Project Number:	333801775
Visit Details			
Date:	13/11/2025	Weather:	Sunny and cloudy
Time:	10:06	Monitoring Round:	2 of 3
Comments:		Recorded by:	LC
Well Details			
Monitoring point ID:	Ws01	Casing Level above GL (m):	0.41
Single or dual gas tap:	Single	Top of Screen (m bgl):	
Pipe Material:		Base of Screen (m bgl):	
Pipe Diameter D (mm):		Top of Screen (m b.casing):	
Hole Diameter R (mm):		Base of Screen (m b.casing):	
Expected headspace air volume:			
Equipment Details			
Gas Analyser Model:	GFM	Instrument Serial Number:	
Calibration Date:	23/10/2026	Span gas check ok:	
PID instrument:		Instrument Serial Number:	
Calibration Date:		Calibration check ok:	
Well conditons:			

Good condition. Gas tap closed

Well measurement readings								
Parameter Details - for Not Recorded use "NR" and explain why in Well Conditions. For non-detect use the displayed value.								
Time (hh:mm:ss)	Relative BH pressure (hPA/mb)	Borehole flow (litres/hour)	CH4 (%)	CO2 (%)	O2 (%)	CO (ppm)	H2S (ppm)	VOC (ppm)
0:00:00	0	0.00	0.00	0.00	20.10	0.00	0.00	
0:00:30	-	0.00	0.00	3.80	14.40	0.00	0.00	
0:01:00	-		0.00	4.00	13.90	0.00	0.00	
0:02:00	-		0.00	4.10	13.70	0.00	0.00	
0:03:00	-		0.00	4.10	13.60	0.00	0.00	
0:04:00	-		0.00	4.20	13.50	0.00	0.00	
0:05:00	-		0.00	4.20	13.30	0.00	0.00	
0:06:00	-		0.00	4.30	13.10	0.00	0.00	
0:07:00	-		0.00	4.30	13.10	0.00	0.00	
0:08:00	-		0.00	4.40	13.00	0.00	0.00	
0:09:00	-		0.00	4.40	12.90	0.00	0.00	
0:10:00	-		0.00	4.50	12.90	0.00	0.00	
Steady State		0.00	0.00	4.50	12.80	0.00	0.00	
Ambient readings								
Atmospheric pressure (mb):	1000.00							
Ambient concentrations:			CH4	CO2	O2	CO	H2S	VOC
			0.00	20.90	0.00	0.00	0.00	
Observations during monitoring								
<<< LEL.								
Vapour/Gas Samples (note Sample Ref must include monitoring round as prefix)								
Sample Depth (mbgl):	Sample Ref:	Sample Type:	Container Type:	Sample Size (l):	Starting vacuum:	End vacuum:	Sampling Rate (l/min):	
QA/QC Samples								
☐ Duplicate								
☐ Triplicate								
Groundwater Gauging:								
Equipment Details:								
Dipmeter type:					Instrument serial number:			
Monitoring Data								
Monitoring Datum					Water Level Depth (m bd):		2.24	
NAPL Gauging:	LNAPL		DNAPL		Measured Well Depth (m bd):		5.10	
Depth to NAPL (m bd):					Water level depth (m bgl)		1.83	
NAPL Thickness (mm):					Well Depth (m bgl):		4.69	

Ground Gas Monitoring Form



Ground Gas Monitoring Form

Project Details			
Project Name:	Aborfield Cross	Project Number:	333801775
Visit Details			
Date:	13/11/2025	Weather:	Sunny & cloudy
Time:	09:50	Monitoring Round:	2 of 3
Comments:		Recorded by:	LC
Well Details			
Monitoring point ID:	WS02	Casing Level above GL (m):	0.35
Single or dual gas tap:	Single	Top of Screen (m bgl):	0.65
Pipe Material:		Base of Screen (m bgl):	4.65
Pipe Diameter D (mm):		Top of Screen (m b.casing):	1.00
Hole Diameter R (mm):		Base of Screen (m b.casing):	5.00
Expected headspace air volume:			
Equipment Details			
Gas Analyser Model:	GFM	Instrument Serial Number:	
Calibration Date:	23/10/2026	Span gas check ok:	
PID instrument:		Instrument Serial Number:	
Calibration Date:		Calibration check ok:	
Well conditons:			

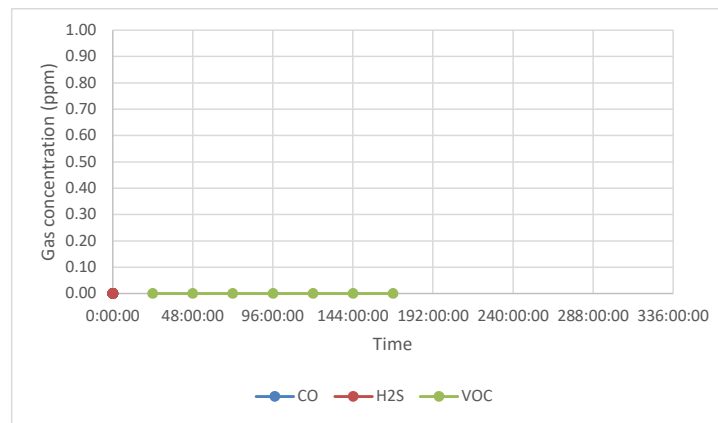
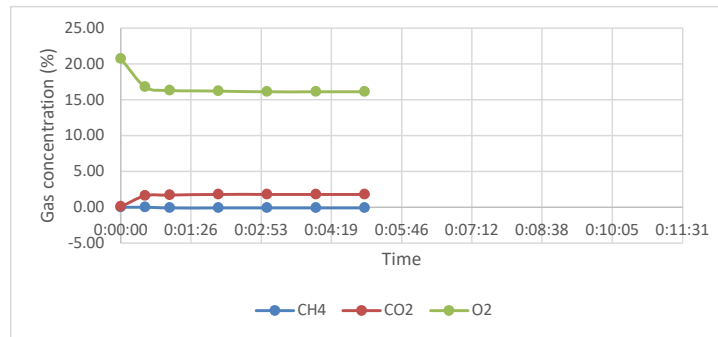
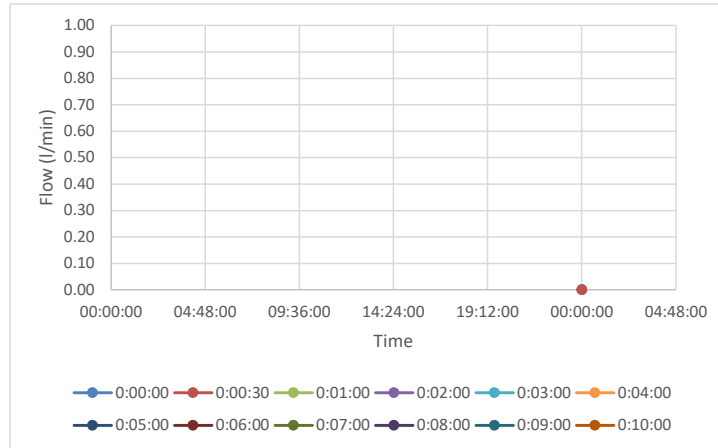
Good condition. Gas tap closed

Well measurement readings								
Parameter Details - for Not Recorded use "NR" and explain why in Well Conditions. For non-detect use the displayed value.								
Time (hh:mm:ss)	Relative BH pressure (hPA/mb)	Borehole flow (litres/hour)	CH4 (%)	CO2 (%)	O2 (%)	CO (ppm)	H2S (ppm)	VOC (ppm)
0:00:00	0	0.00	0.00	0.10	20.70	0.00	0.00	-
0:00:30	-	0.00	0.00	1.60	16.80	0.00	0.00	-
0:01:00	-		-0.10	1.70	16.30	0.00	0.00	-
0:02:00	-		-0.10	1.80	16.20	0.00	0.00	-
0:03:00	-		-0.10	1.80	16.10	0.00	0.00	-
0:04:00	-		-0.10	1.80	16.10	0.00	0.00	-
0:05:00	-		-0.10	1.80	16.10	0.00	0.00	-
0:06:00	-							
0:07:00	-							
0:08:00	-							
0:09:00	-							
0:10:00	-							
Steady State		0.00	0.00	1.80	16.10	0.00	0.00	
Ambient readings								
Atmospheric pressure (mb):	1002.00							
Ambient concentrations:			CH4	CO2	O2	CO	H2S	VOC
			0.00	21.00	0.00	0.00	0.00	
Observations during monitoring								
<<< LEL. Stable after 5 mins								

Vapour/Gas Samples (note Sample Ref must include monitoring round as prefix)

Sample Depth (mbgl):	Sample Ref:	Sample Type:	Container Type:	Sample Size (l):	Starting vacuum:	End vacuum:	Sampling Rate (l/min):
QA/QC Samples							
☐ Duplicate							
☐ Triplicate							
Groundwater Gauging:							
Equipment Details:							
Dipmeter type:		Instrument serial number:					
Monitoring Data							
Monitoring Datum					Water Level Depth (m bd):	2.79	
NAPL Gauging:	LNAPL		DNAPL		Measured Well Depth (m bd):	5.04	
Depth to NAPL (m bd):					Water level depth (m bgl)	2.44	
NAPL Thickness (mm):					Well Depth (m bgl):	4.69	

Ground Gas Monitoring Form



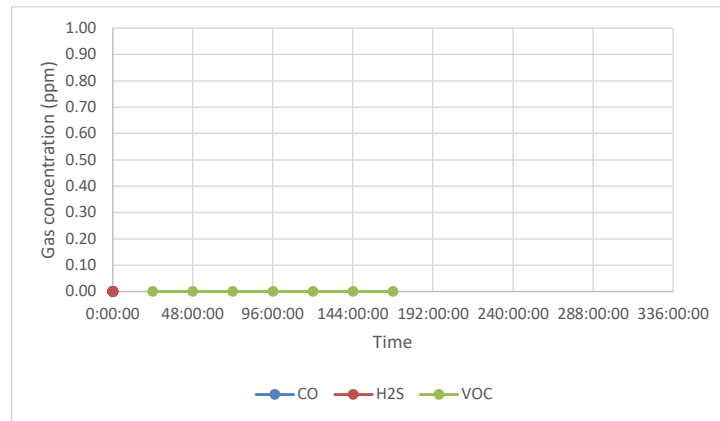
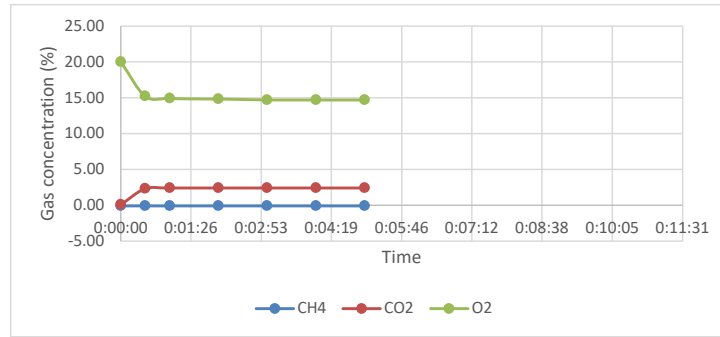
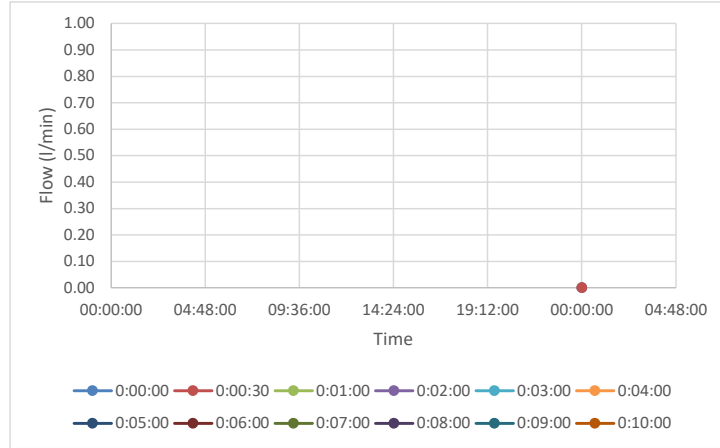
Ground Gas Monitoring Form

Project Details			
Project Name:	Aborfield Cross	Project Number:	333801775
Visit Details			
Date:	13/11/2025	Weather:	Sunny & Cloudy
Time:	10:45	Monitoring Round:	2 of 3
Comments:		Recorded by:	LC
Well Details			
Monitoring point ID:	WS03	Casing Level above GL (m):	0.36
Single or dual gas tap:	Single	Top of Screen (m bgl):	0.64
Pipe Material:		Base of Screen (m bgl):	4.64
Pipe Diameter D (mm):		Top of Screen (m b.casing):	1.00
Hole Diameter R (mm):		Base of Screen (m b.casing):	5.00
Expected headspace air volume:			
Equipment Details			
Gas Analyser Model:	GFM	Instrument Serial Number:	
Calibration Date:	23/10/2026	Span gas check ok:	
PID instrument:		Instrument Serial Number:	
Calibration Date:		Calibration check ok:	
Well conditons:			

Good condition. Gas tap closed

Well measurement readings								
Parameter Details - for Not Recorded use "NR" and explain why in Well Conditions. For non-detect use the displayed value.								
Time (hh:mm:ss)	Relative BH pressure (hPA/mb)	Borehole flow (litres/hour)	CH4 (%)	CO2 (%)	O2 (%)	CO (ppm)	H2S (ppm)	VOC (ppm)
0:00:00	0	0.00	-0.10	0.10	20.00	0.00	0.00	-
0:00:30	-	0.00	-0.10	2.30	15.20	0.00	0.00	-
0:01:00	-		-0.10	2.40	14.90	0.00	0.00	-
0:02:00	-		-0.10	2.40	14.80	0.00	0.00	-
0:03:00	-		-0.10	2.40	14.70	0.00	0.00	-
0:04:00	-		-0.10	2.40	14.70	0.00	0.00	-
0:05:00	-		-0.10	2.40	14.70	0.00	0.00	-
0:06:00	-							
0:07:00	-							
0:08:00	-							
0:09:00	-							
0:10:00	-							
Steady State		0.00						
Ambient readings								
Atmospheric pressure (mb):	1003.00							
Ambient concentrations:			CH4	CO2	O2	CO	H2S	VOC
			-0.10	0.00	20.80	0.00	0.00	-
Observations during monitoring								
<<< LEL. Stable after 5 mins								
Vapour/Gas Samples (note Sample Ref must include monitoring round as prefix)								
Sample Depth (mbgl):	Sample Ref:	Sample Type:	Container Type:	Sample Size (l):	Starting vacuum:	End vacuum:	Sampling Rate (l/min):	
QA/QC Samples								
☐ Duplicate								
☐ Triplicate								
Groundwater Gauging:								
Equipment Details:								
Dipmeter type:					Instrument serial number:			
Monitoring Data								
Monitoring Datum					Water Level Depth (m bd):	3.45		
NAPL Gauging:	LNAPL		DNAPL		Measured Well Depth (m bd):	5.07		
Depth to NAPL (m bd):					Water level depth (m bgl)	3.09		
NAPL Thickness (mm):					Well Depth (m bgl):	4.71		

Ground Gas Monitoring Form



Ground Gas Monitoring Form

Project Details			
Project Name:	Aborfield Cross	Project Number:	333801775
Visit Details			
Date:	13/11/2025	Weather:	Sunny & cloudy
Time:	10:30	Monitoring Round:	2 of 3
Comments:		Recorded by:	LC
Well Details			
Monitoring point ID:	WS05	Casing Level above GL (m):	0.46
Single or dual gas tap:	Single	Top of Screen (m bgl):	0.55
Pipe Material:		Base of Screen (m bgl):	4.55
Pipe Diameter D (mm):		Top of Screen (m b.casing):	1.00
Hole Diameter R (mm):		Base of Screen (m b.casing):	5.00
Expected headspace air volume:			
Equipment Details			
Gas Analyser Model:	GFM	Instrument Serial Number:	
Calibration Date:	23/10/2025	Span gas check ok:	
PID instrument:		Instrument Serial Number:	
Calibration Date:		Calibration check ok:	
Well conditons:			

Good condition. Gas tap closed

Well measurement readings								
Parameter Details - for Not Recorded use "NR" and explain why in Well Conditions. For non-detect use the displayed value.								
Time (hh:mm:ss)	Relative BH pressure (hPA/mb)	Borehole flow (litres/hour)	CH4 (%)	CO2 (%)	O2 (%)	CO (ppm)	H2S (ppm)	VOC (ppm)
0:00:00	0	0.00	0.00	0.10	20.70	0.00	0.00	-
0:00:30	-	0.00	0.00	1.70	17.50	0.00	0.00	
0:01:00	-		0.00	1.80	17.30	0.00	0.00	
0:02:00	-		0.00	1.80	17.20	0.00	0.00	
0:03:00	-		0.00	1.80	17.10	0.00	0.00	
0:04:00	-		0.00	1.80	17.00	0.00	0.00	
0:05:00	-		0.00	1.90	17.00	0.00	0.00	
0:06:00	-		-0.10	1.90	16.90	0.00	0.00	
0:07:00	-		-0.10	1.90	16.90	0.00	0.00	
0:08:00	-		-0.10	2.00	16.70	0.00	0.00	
0:09:00	-		-0.10	2.00	16.70	0.00	0.00	
0:10:00	-		-0.10	2.00	16.60	0.00	0.00	
Steady State		0.00	-0.10	2.00	16.60	0.00	0.00	
Ambient readings								
Atmospheric pressure (mb):	1001.00							
Ambient concentrations:		CH4	CO2	O2	CO	H2S	VOC	
		0.00	0.00	21.00	0.00	0.00		
Observations during monitoring								
<<< LEL.								
Vapour/Gas Samples (note Sample Ref must include monitoring round as prefix)								
Sample Depth (mbgl):	Sample Ref:	Sample Type:	Container Type:	Sample Size (l):	Starting vacuum:	End vacuum:	Sampling Rate (l/min):	
QA/QC Samples								
☐ Duplicate								
☐ Triplicate								
Groundwater Gauging:								
Equipment Details:								
Dipmeter type:					Instrument serial number:			
Monitoring Data								
Monitoring Datum					Water Level Depth (m bd):	2.41		
NAPL Gauging:	LNAPL		DNAPL		Measured Well Depth (m bd):	5.02		
Depth to NAPL (m bd):					Water level depth (m bgl)	1.95		
NAPL Thickness (mm):					Well Depth (m bgl):	4.57		

Ground Gas Monitoring Form

Ground Gas Monitoring Form

Project Details			
Project Name:	Aborfield Cross	Project Number:	333801775
Visit Details			
Date:	26/11/2025	Weather:	Sunny and cloudy
Time:	12:45	Monitoring Round:	3 of 3
Comments:		Recorded by:	ER
Well Details			
Monitoring point ID:	Ws01	Casing Level above GL (m):	0.41
Single or dual gas tap:	Single	Top of Screen (m bgl):	0.59
Pipe Material:		Base of Screen (m bgl):	4.59
Pipe Diameter D (mm):		Top of Screen (m b.casing):	1.00
Hole Diameter R (mm):		Base of Screen (m b.casing):	5.00
Expected headspace air volume:			
Equipment Details			
Gas Analyser Model:	GFM	Instrument Serial Number:	
Calibration Date:	23/10/2026	Span gas check ok:	
PID instrument:		Instrument Serial Number:	
Calibration Date:		Calibration check ok:	
Well conditions:			
Good condition. Gas tap closed			

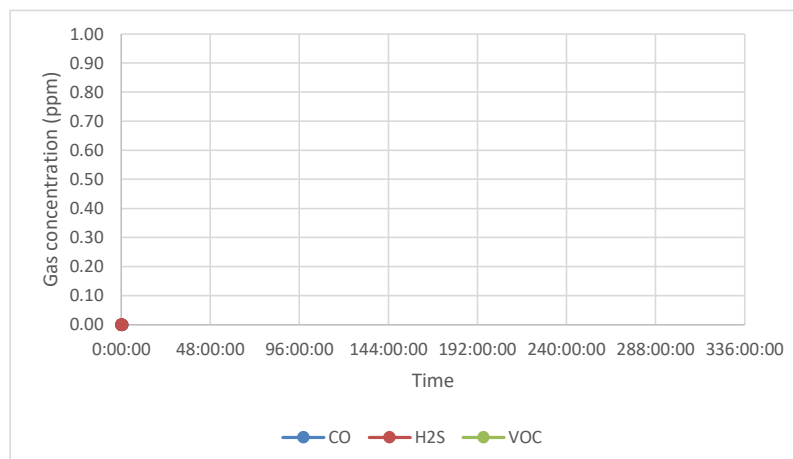
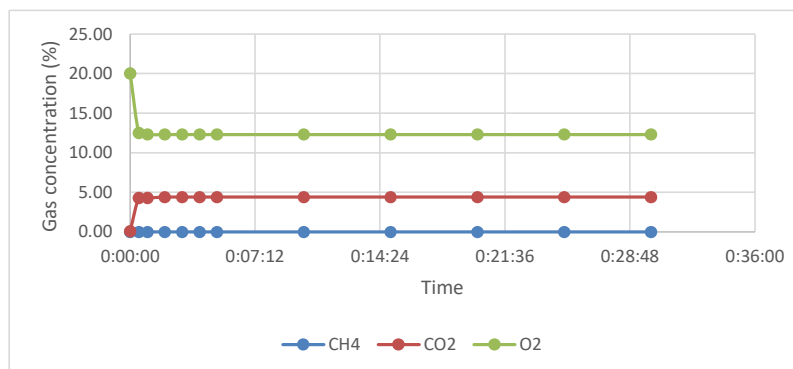
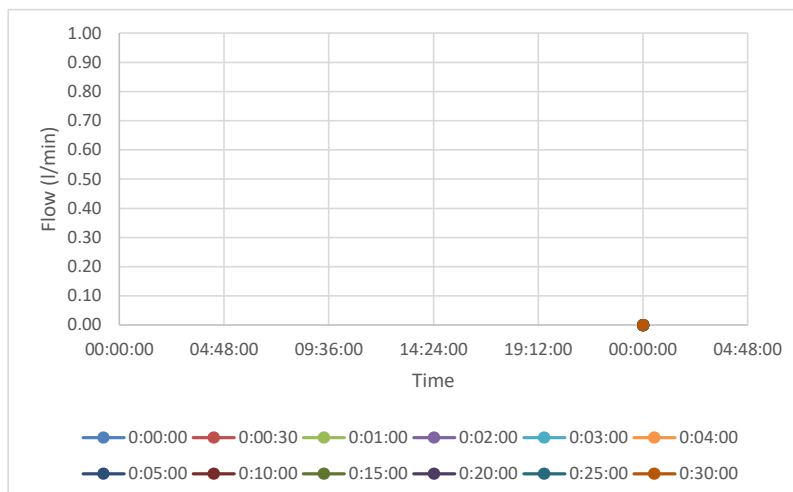
Well measurement readings								
Parameter Details - for Not Recorded use "NR" and explain why in Well Conditions. For non-detect use the displayed value.								
Time (hh:mm:ss)	Relative BH pressure (hPA/mb)	Borehole flow (litres/hour)	CH4 (%)	CO2 (%)	O2 (%)	CO (ppm)	H2S (ppm)	VOC (ppm)
0:00:00	1015	0.00	0.00	0.10	20.00	0.00	0.00	
0:00:30	-	0.00	0.00	4.30	12.50	0.00	0.00	
0:01:00	-	0.00	0.00	4.30	12.30	0.00	0.00	
0:02:00	-	0.00	0.00	4.40	12.30	0.00	0.00	
0:03:00	-	0.00	0.00	4.40	12.30	0.00	0.00	
0:04:00	-	0.00	0.00	4.40	12.30	0.00	0.00	
0:05:00	-	0.00	0.00	4.40	12.30	0.00	0.00	
0:10:00	-	0.00	0.00	4.40	12.30	0.00	0.00	
0:15:00	-	0.00	0.00	4.40	12.30	0.00	0.00	
0:20:00	-	0.00	0.00	4.40	12.30	0.00	0.00	
0:25:00	-	0.00	0.00	4.40	12.30	0.00	0.00	
0:30:00	-	0.00	0.00	4.40	12.30	0.00	0.00	
Steady State		0.00	0.00	4.40	12.30	0.00	0.00	
Ambient readings								
Atmospheric pressure (mb):	1016.00							
Ambient concentrations:		CH4	CO2	O2	CO	H2S	VOC	
		0.00	20.90	0.00	0.00	0.00		

Observations during monitoring							
<<< LEL.							

Vapour/Gas Samples (note Sample Ref must include monitoring round as prefix)							
Sample Depth (mbgl):	Sample Ref:	Sample Type:	Container Type:	Sample Size (l):	Starting vacuum:	End vacuum:	Sampling Rate (l/min):
QA/QC Samples							
☐ Duplicate							
☐ Triplicate							

Groundwater Gauging:							
Equipment Details:							
Dipmeter type:					Instrument serial number:		
Monitoring Data							
Monitoring Datum					Water Level Depth (m bd):	2.00	
NAPL Gauging:	LNAPL	DNAPL		Measured Well Depth (m bd):		5.10	
Depth to NAPL (m bd):					Water level depth (m bgl)	1.59	
NAPL Thickness (mm):					Well Depth (m bgl):	4.69	

Ground Gas Monitoring Form



Ground Gas Monitoring Form

Project Details			
Project Name:	Aborfield Cross	Project Number:	333801775
Visit Details			
Date:	26/11/2025	Weather:	Sunny & cloudy
Time:	12:15	Monitoring Round:	3 of 3
Comments:		Recorded by:	ER
Well Details			
Monitoring point ID:	WS02	Casing Level above GL (m):	0.35
Single or dual gas tap:	Single	Top of Screen (m bgl):	0.65
Pipe Material:		Base of Screen (m bgl):	4.65
Pipe Diameter D (mm):		Top of Screen (m b.casing):	1.00
Hole Diameter R (mm):		Base of Screen (m b.casing):	5.00
Expected headspace air volume:			
Equipment Details			
Gas Analyser Model:	GFM	Instrument Serial Number:	
Calibration Date:	23/10/2026	Span gas check ok:	
PID instrument:		Instrument Serial Number:	
Calibration Date:		Calibration check ok:	
Well conditions:			
Good condition. Gas tap closed			

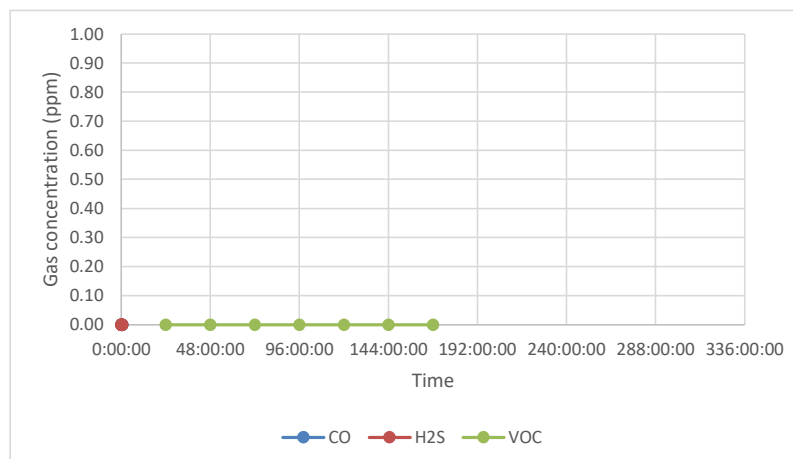
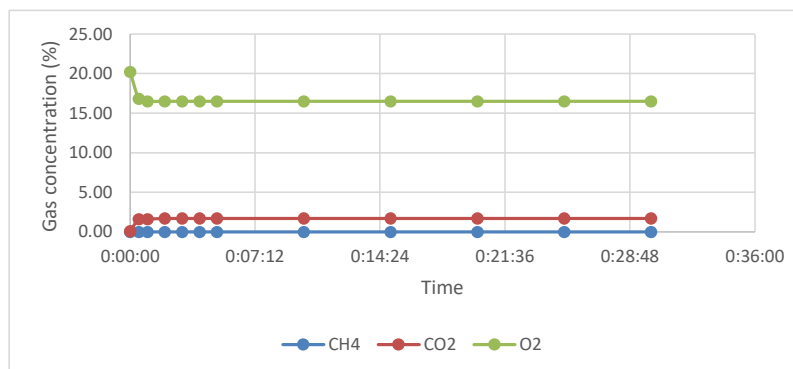
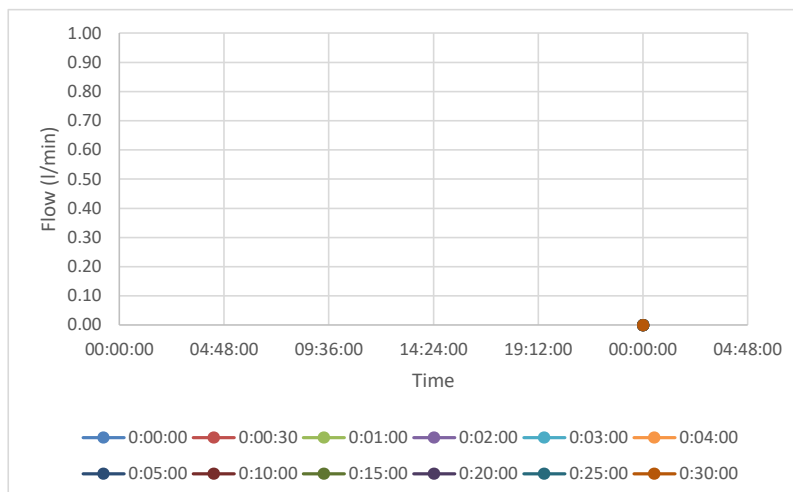
Well measurement readings								
Parameter Details - for Not Recorded use "NR" and explain why in Well Conditions. For non-detect use the displayed value.								
Time (hh:mm:ss)	Relative BH pressure (hPA/mb)	Borehole flow (litres/hour)	CH4 (%)	CO2 (%)	O2 (%)	CO (ppm)	H2S (ppm)	VOC (ppm)
0:00:00	1016	0.00	0.00	0.10	20.20	0.00	0.00	-
0:00:30	-	0.00	0.00	1.60	16.80	0.00	0.00	-
0:01:00	-	0.00	0.00	1.60	16.50	0.00	0.00	-
0:02:00	-	0.00	0.00	1.70	16.50	0.00	0.00	-
0:03:00	-	0.00	0.00	1.70	16.50	0.00	0.00	-
0:04:00	-	0.00	0.00	1.70	16.50	0.00	0.00	-
0:05:00	-	0.00	0.00	1.70	16.50	0.00	0.00	-
0:10:00	-	0.00	0.00	1.70	16.50	0.00	0.00	-
0:15:00	-	0.00	0.00	1.70	16.50	0.00	0.00	-
0:20:00	-	0.00	0.00	1.70	16.50	0.00	0.00	-
0:25:00	-	0.00	0.00	1.70	16.50	0.00	0.00	-
0:30:00	-	0.00	0.00	1.70	16.50	0.00	0.00	-
Steady State		0.00	0.00	1.80	16.10	0.00	0.00	
Ambient readings								
Atmospheric pressure (mb):	1002.00							
Ambient concentrations:		CH4	CO2	O2	CO	H2S	VOC	
		0.00	21.00	0.00	0.00	0.00		

Observations during monitoring							
<<< LEL. Stable after 5 mins							

Vapour/Gas Samples (note Sample Ref must include monitoring round as prefix)							
Sample Depth (mbgl):	Sample Ref:	Sample Type:	Container Type:	Sample Size (l):	Starting vacuum:	End vacuum:	Sampling Rate (l/min):
QA/QC Samples							
☐ Duplicate							
☐ Triplicate							

Groundwater Gauging:							
Equipment Details:							
Dipmeter type:					Instrument serial number:		
Monitoring Data							
Monitoring Datum					Water Level Depth (m bd):	2.70	
NAPL Gauging:	LNAPL	DNAPL		Measured Well Depth (m bd):		5.04	
Depth to NAPL (m bd):					Water level depth (m bgl)	2.35	
NAPL Thickness (mm):					Well Depth (m bgl):	4.69	

Ground Gas Monitoring Form



Ground Gas Monitoring Form

Project Details			
Project Name:	Aborfield Cross	Project Number:	333801775
Visit Details			
Date:	26/11/2025	Weather:	Sunny & Cloudy
Time:	10:45	Monitoring Round:	3 of 3
Comments:		Recorded by:	ER
Well Details			
Monitoring point ID:	WS03	Casing Level above GL (m):	0.36
Single or dual gas tap:	Single	Top of Screen (m bgl):	0.64
Pipe Material:		Base of Screen (m bgl):	4.64
Pipe Diameter D (mm):		Top of Screen (m b.casing):	1.00
Hole Diameter R (mm):		Base of Screen (m b.casing):	5.00
Expected headspace air volume:			
Equipment Details			
Gas Analyser Model:	GFM	Instrument Serial Number:	
Calibration Date:	23/10/2026	Span gas check ok:	
PID instrument:		Instrument Serial Number:	
Calibration Date:		Calibration check ok:	
Well conditions:			
Good condition. Gas tap closed			

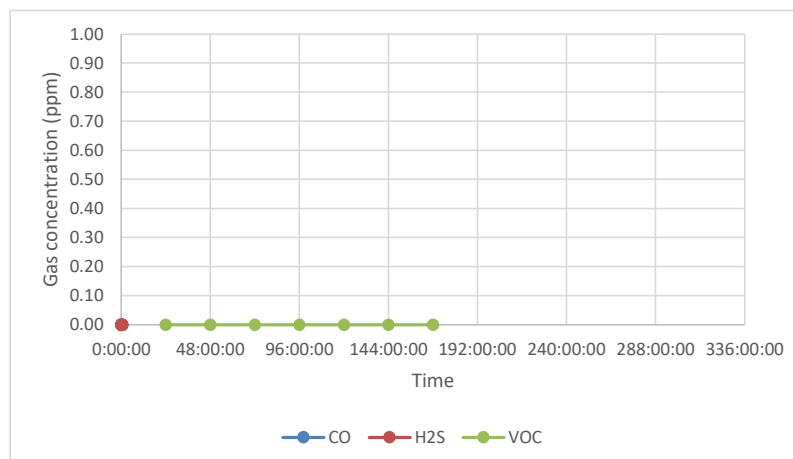
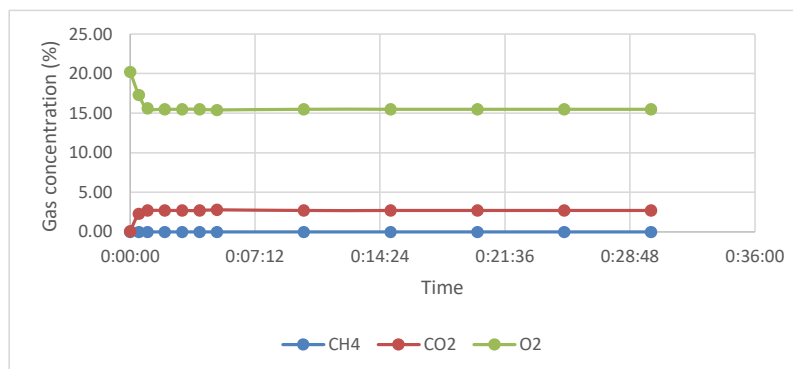
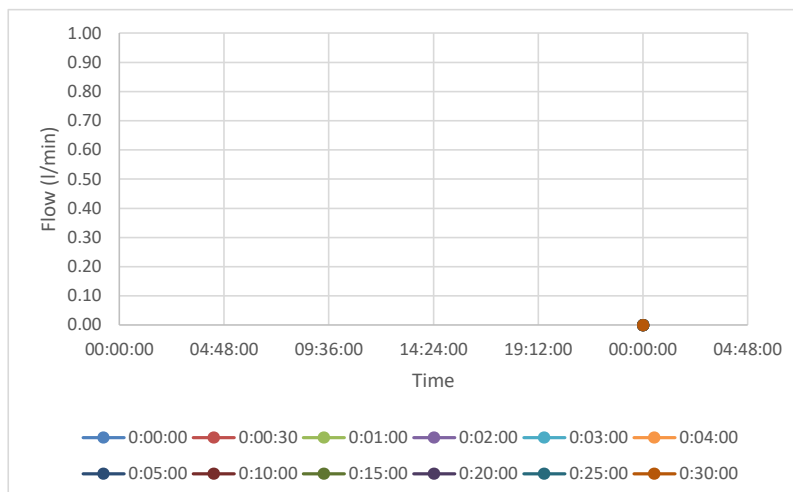
Well measurement readings								
Parameter Details - for Not Recorded use "NR" and explain why in Well Conditions. For non-detect use the displayed value.								
Time (hh:mm:ss)	Relative BH pressure (hPA/mb)	Borehole flow (litres/hour)	CH4 (%)	CO2 (%)	O2 (%)	CO (ppm)	H2S (ppm)	VOC (ppm)
0:00:00	1015	0.00	0.00	0.10	20.20	0.00	0.00	-
0:00:30	-	0.00	0.00	2.30	17.30	0.00	0.00	-
0:01:00	-	0.00	0.00	2.70	15.60	0.00	0.00	-
0:02:00	-	0.00	0.00	2.70	15.50	0.00	0.00	-
0:03:00	-	0.00	0.00	2.70	15.50	0.00	0.00	-
0:04:00	-	0.00	0.00	2.70	15.50	0.00	0.00	-
0:05:00	-	0.00	0.00	2.80	15.40	0.00	0.00	-
0:10:00	-	0.00	0.00	2.70	15.50	0.00	0.00	-
0:15:00	-	0.00	0.00	2.70	15.50	0.00	0.00	-
0:20:00	-	0.00	0.00	2.70	15.50	0.00	0.00	-
0:25:00	-	0.00	0.00	2.70	15.50	0.00	0.00	-
0:30:00	-	0.00	0.00	2.70	15.50	0.00	0.00	-
Steady State		0.00						
Ambient readings								
Atmospheric pressure (mb):	1015.00							
Ambient concentrations:		CH4	CO2	O2	CO	H2S	VOC	
		0.00	0.00	20.70	0.00	0.00	-	

Observations during monitoring							
<<< LEL. Stable after 5 mins							

Vapour/Gas Samples (note Sample Ref must include monitoring round as prefix)							
Sample Depth (mbgl):	Sample Ref:	Sample Type:	Container Type:	Sample Size (l):	Starting vacuum:	End vacuum:	Sampling Rate (l/min):
QA/QC Samples							
☐ Duplicate							
☐ Triplicate							

Groundwater Gauging:							
Equipment Details:							
Dipmeter type:					Instrument serial number:		
Monitoring Data							
Monitoring Datum					Water Level Depth (m bd):	3.52	
NAPL Gauging:	LNAPL	DNAPL		Measured Well Depth (m bd):		5.07	
Depth to NAPL (m bd):					Water level depth (m bgl)	3.16	
NAPL Thickness (mm):					Well Depth (m bgl):	4.71	

Ground Gas Monitoring Form



Ground Gas Monitoring Form

Project Details			
Project Name:	Aborfield Cross	Project Number:	333801775
Visit Details			
Date:	26/11/2025	Weather:	Sunny & cloudy
Time:	11:30	Monitoring Round:	3 of 3
Comments:		Recorded by:	ER
Well Details			
Monitoring point ID:	WS05	Casing Level above GL (m):	0.46
Single or dual gas tap:	Single	Top of Screen (m bgl):	0.55
Pipe Material:		Base of Screen (m bgl):	4.55
Pipe Diameter D (mm):		Top of Screen (m b.casing):	1.00
Hole Diameter R (mm):		Base of Screen (m b.casing):	5.00
Expected headspace air volume:			
Equipment Details			
Gas Analyser Model:	GFM	Instrument Serial Number:	
Calibration Date:	23/10/2025	Span gas check ok:	
PID instrument:		Instrument Serial Number:	
Calibration Date:		Calibration check ok:	
Well conditions:			
Good condition. Gas tap closed			

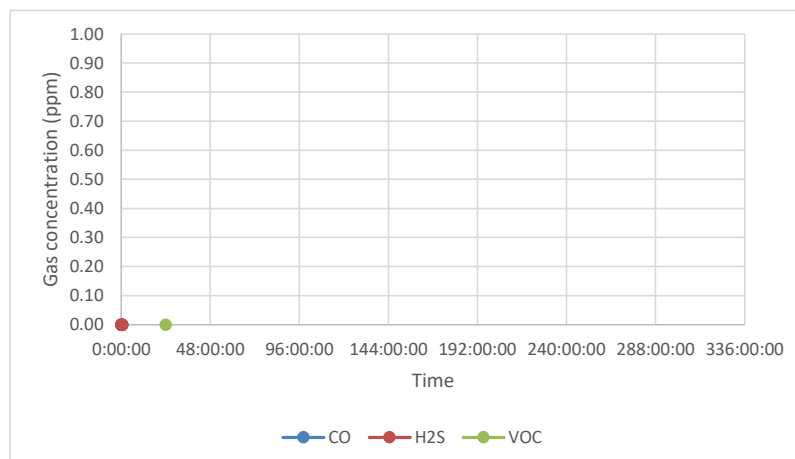
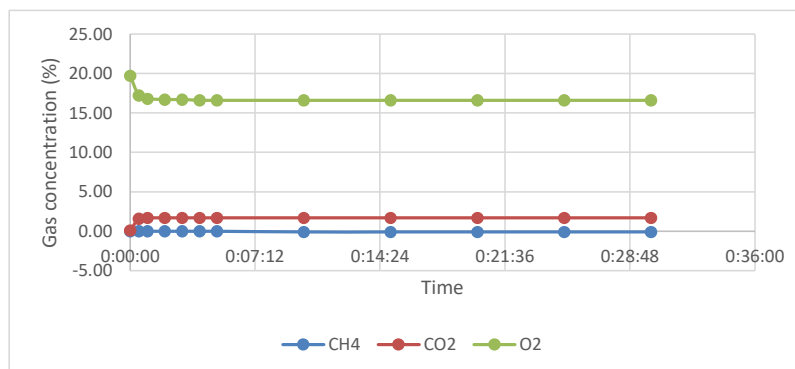
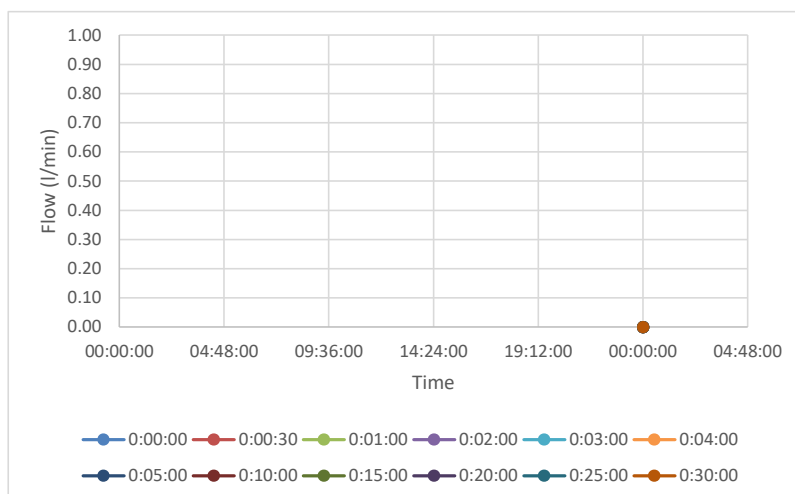
Well measurement readings								
Parameter Details - for Not Recorded use "NR" and explain why in Well Conditions. For non-detect use the displayed value.								
Time (hh:mm:ss)	Relative BH pressure (hPA/mb)	Borehole flow (litres/hour)	CH4 (%)	CO2 (%)	O2 (%)	CO (ppm)	H2S (ppm)	VOC (ppm)
0:00:00	1016	0.00	0.00	0.10	19.70	0.00	0.00	-
0:00:30	-	0.00	0.00	1.60	17.20	0.00	0.00	
0:01:00	-	0.00	0.00	1.70	16.80	0.00	0.00	
0:02:00	-	0.00	0.00	1.70	16.70	0.00	0.00	
0:03:00	-	0.00	0.00	1.70	16.70	0.00	0.00	
0:04:00	-	0.00	0.00	1.70	16.60	0.00	0.00	
0:05:00	-	0.00	0.00	1.70	16.60	0.00	0.00	
0:10:00	-	0.00	-0.10	1.70	16.60	0.00	0.00	
0:15:00	-	0.00	-0.10	1.70	16.60	0.00	0.00	
0:20:00	-	0.00	-0.10	1.70	16.60	0.00	0.00	
0:25:00	-	0.00	-0.10	1.70	16.60	0.00	0.00	
0:30:00	-	0.00	-0.10	1.70	16.60	0.00	0.00	
Steady State		0.00	-0.10	1.70	16.60	0.00	0.00	
Ambient readings								
Atmospheric pressure (mb):	1015.00							
Ambient concentrations:		CH4	CO2	O2	CO	H2S	VOC	
		0.00	0.00	20.70	0.00	0.00		

Observations during monitoring							
<<< LEL.							

Vapour/Gas Samples (note Sample Ref must include monitoring round as prefix)							
Sample Depth (mbgl):	Sample Ref:	Sample Type:	Container Type:	Sample Size (l):	Starting vacuum:	End vacuum:	Sampling Rate (l/min):
QA/QC Samples							
☐ Duplicate							
☐ Triplicate							

Groundwater Gauging:							
Equipment Details:							
Dipmeter type:					Instrument serial number:		
Monitoring Data							
Monitoring Datum					Water Level Depth (m bd):	2.42	
NAPL Gauging:	LNAPL		DNAPL		Measured Well Depth (m bd):	5.02	
Depth to NAPL (m bd):					Water level depth (m bgl)	1.97	
NAPL Thickness (mm):					Well Depth (m bgl):	4.57	

Ground Gas Monitoring Form



Appendix E Contamination Test Results



Contamination test results

GAC derivation

Background

Initially, the Stantec GAC were derived following the publishing of soil guideline values (SGV), toxicological (TOX) reports and associated publications by the Environment Agency (EA) in 2009 referenced under Science Report SC050021 (EA, 2009a, b, c, d). The Stantec GAC have then been periodically updated following publication of new information on toxicological, physico-chemical, land use or receptor parameters, namely:

- LQM/CIEH, 2009. LQM/CIEH Generic Assessment Criteria for Human Health Risk Assessment, second edition. Nathanial, C. P., McCaffrey, C., Ashmore, M., Cheng, Y., Gillet, A. G., Ogden, R. C. and Scott, D.
- CL:AIRE, 2010. 'The EIC/AGS/CL:AIRE Soil Generic Assessment Criteria for Human Health Risk Assessment'. Environmental Industries Commission, The Association of Geotechnical and Geoenvironmental Specialists and Contaminated Land: Applications in Real Environment.
- CL:AIRE, 2014. 'Development of Category 4 Screening Levels for Assessment of Land Affected by Contamination', Revision 2, DEFRA research project SP1010.
- LQM/CIEH, 2015. 'The LQM/CIEH S4ULs for Human Health Risk Assessment'. Nathanial, C. P., McCaffrey, C., Gillet, A. G., Ogden, R. C. and Nathanial, J. F.
- CL:AIRE, 2021-2024. 'C4SL Phase 2 Technical Reports'.
- CL:AIRE, 2022. C4SL Phase 2 Technical Report for 1,2-dichloroethane.
- CL:AIRE, 2024. C4SL Phase 2 Technical Reports for cis-1,2-dichloroethene, trans-1,2-dichloroethene, naphthalene, PFAS and inorganic mercury.

Land use scenarios

Stantec has derived generic assessment criteria (GAC) for human health based on the six exposure scenarios defined in CL:AIRE (2014) using generic default assumptions from published guidance. GAC for each exposure scenario have been derived for three soil organic matter (SOM) contents, 1%, 2.5% and 6%.

All GAC have been rounded to two significant figures.

Exposure parameters

The exposure parameters used for the Stantec GAC are the default parameters stated in SR3, unless updated in CL:AIRE (2014) where the CL:AIRE (2014) values have been adopted.

Approach to consumption rates

Stantec have adopted the 90th percentile consumption rates from Table 3.4 of CL:AIRE (2014) for all produce types. This is noted to be more conservative than the "top two" approach taken in the derivation of C4SLs.

Approach to plant uptake for GAC omitted in CL:AIRE (2010)



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Plant uptake factors were not identified in CL:AIRE (2010) for antimony, barium and molybdenum. Stantec has sourced the required parameter values from ORNL (1984) in order to derive GAC that are inclusive of the homegrown produce exposure pathway.

Chemical and toxicity parameters

The chemical and toxicity parameters have been adopted based on the following documents:

- IRIS, 2016. 'Toxicological Review of Trimethylbenzenes'. Integrated Risk Information System, National Centre for Environmental Assessment, office of Research and Development, U.S. Environmental Protection Agency.
- LQM/CIEH, 2015.
- ORNL, 1984. 'ORNL-5786. A Review and Analysis of Parameters for Assessing Transport of Environmentally released Radionuclides through Agriculture'. Oak Ridge National Laboratory.
- CL:AIRE, 2010.
- RIVM, 2001. RIVM Report 711701 025 'HCV Re-evaluation of human-toxicological maximum-permissible risk levels'. National Institute of Public Health and the Environment.
- LQM/CIEH, 2009.
- EA, 2009a.



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Approach to Cyanide GAC

The Stantec GAC for free cyanide have been derived based on ingestion of a bolus of contaminated soil. The GAC are derived for acute exposure of a child (0-6 years old) for all land uses except commercial, where the GAC are derived for acute exposure of an adult (16-65 years old). For the purpose of GQRA, the child value may be adopted for all land use scenarios.

For complex cyanide, the GAC have been derived based on chronic exposure, using the default exposure scenarios but excluding the consumption of homegrown produce, soil attached to homegrown produce, indoor vapour and outdoor vapour pathways. The chronic health criteria value (HCV) for complex cyanide is based on the EA (2009a) HCV for free cyanide and the ratio of toxicity between free and complex cyanide proposed by RIVM (2001).

Approach to Phenol GAC

In accordance with the EA Science Report SC050021 / Phenol SGV, a $GAC_{ing/inh}$ has been derived for ingested and inhaled phenol using the CLEA model, with a GAC_{derm} derived for dermal contact using Equation 5.7 within SR3. The lower of the $GAC_{ing/inh}$ and GAC_{derm} has been adopted as the final GAC.

Approach to PCB GAC

GAC for assessing the non-dioxin-like risk from PCBs have been based on the "Dutch 7". As the TDI used by the authors of the Dutch guidance is for the sum of the 7 individual congeners, the TDI has been divided by 7 to create a TDI for each congener. The non-dioxin-like risk from PCBs is therefore assessed using a Hazard Index approach as for total petroleum hydrocarbons (TPH).

Sub-surface soil to indoor air correction factors

Reflecting the approach taken by the Environment Agency in the development of revised SGV in 2009 for BTEX, a sub-surface soil to indoor air correction factor of 10 has been applied for petroleum hydrocarbons in order to account for over-prediction of vapour intrusion into building using the Johnson and Ettinger approach.

The correction factor of 10 has been applied to the following petroleum hydrocarbons (it makes negligible difference to less volatile TPH and PAH compounds):

- TPHCWG fractions, namely aliphatic EC>5-44 and aromatic EC>6-44;
- PAHs (acenaphthene, acenaphthylene, anthracene, benzo(a)anthracene), benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, benzo(k)fluoranthene, chrysene, dibenz(a,h)anthracene, fluoranthene, fluorene, indeno(1,2,3-c,d)pyrene, naphthalene, phenanthrene, pyrene);
- BTEX;
- Isopropylbenzene;
- Propylbenzene;
- 1,2,4- and 1,3,5-trimethylbenzene; and
- Styrene.

Approach to saturation limits



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The CLEA model includes a traffic light colour system to highlight when saturated soil conditions have potentially been exceeded for the vapour pathways during calculation of assessment criteria. The colours represent:

- Green: the assessment criteria do not exceed the saturated soil concentration.
- Amber: the assessment criteria exceed the saturated soil concentration but the contribution of the indoor and outdoor vapour pathway to total exposure is less than 10% and will not significantly affect the assessment criteria.
- Red: the assessment criteria exceed the saturated soil concentration and the contribution of the indoor and outdoor vapour pathway to total exposure is greater than 10% and will significantly affect the assessment criteria.

Stantec has not applied any further calculations or assessment in relation to saturation limits during GAC derivation, with the CLEA-modelled GAC being presented as the GAC. Consideration of saturation limits is undertaken during the data assessment stage.

References

- CL:AIRE, 2010. 'The EIC/AGS/CL:AIRE Soil Generic Assessment Criteria for Human Health Risk Assessment'. Environmental Industries Commission, The Association of Geotechnical and Geoenvironmental Specialists and Contaminated Land: Applications in Real Environment.
- CL:AIRE, 2014. 'Development of Category 4 Screening Levels for Assessment of Land Affected by Contamination', Revision 2, DEFRA research project SP1010.
- CL:AIRE, 2021-2024. C4SL Phase 2 Technical Reports for tetrachloroethene, trichloroethene and vinyl chloride.
- CL:AIRE, 2022. C4SL Phase 2 Technical Report for 1,2-dichloroethane. Contaminated Land: Applications in Real Environment.
- CL:AIRE, 2024. C4SL Phase 2 Technical Reports for cis-1,2-dichloroethene, trans-1,2-dichloroethene, naphthalene, PFAS, and inorganic mercury.
- EA, 2009a. 'Science Reports SC050021 – SGV and TOX reports for: benzene, toluene, ethylbenzene, xylene, arsenic, nickel, mercury, selenium, cadmium, inorganic cyanide, phenol, dioxins, furans and dioxin-like PCBs'; 'Supplementary information for the derivation of SGV for: benzene, toluene, ethylbenzene, xylene, arsenic, nickel, mercury, selenium, cadmium, inorganic cyanide, phenol, dioxins, furans and dioxin-like PCBs', and 'Contaminants in soil: updated collation of toxicological data and intake values for humans: benzene, toluene, ethylbenzene, xylene, arsenic, nickel, mercury, selenium, cadmium, inorganic cyanide, phenol, dioxins, furans and dioxin-like PCBs'. Environment Agency.
- EA, 2009b. 'Science Report – SC050021/SR2. Human health toxicological assessment of contaminants in soil'. Environment Agency.
- EA, 2009c. 'Science Report – SC050021/SR3. Updated technical background to the CLEA model'. Environment Agency.
- EA, 2009d. 'Science Report – SC050021/SR4. CLEA Software (version 1.05) Handbook'. Environment Agency.



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- IRIS, 2016. 'Toxicological Review of Trimethylbenzenes'. Integrated Risk Information System, National Centre for Environmental Assessment, office of Research and Development, U.S. Environmental Protection Agency.
- LQM/CIEH, 2009. LQM/CIEH Generic Assessment Criteria for Human Health Risk Assessment, second edition. Nathanial, C. P., McCaffrey, C., Ashmore, M., Cheng, Y., Gillet, A. G., Ogden, R. C. and Scott, D.
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Analytical Report Number : 25-056272

Project / Site name:	Land North of School Lane, Arborfield	Samples received on:	16/10/2025
Your job number:	333801775	Samples instructed on/ Analysis started on:	16/10/2025
Your order number:	EPL049995	Analysis completed by:	28/10/2025
Report Issue Number:	1	Report issued on:	28/10/2025
Samples Analysed:	7 soil samples		

Joanna Biolik

Signed:

Joanna Biolik
Senior Reporting Specialist
For & on behalf of i2 Analytical Ltd.

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

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

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils - 4 weeks from reporting
leachates - 2 weeks from reporting
waters - 2 weeks from reporting
asbestos - 6 months from reporting
air - once the analysis is complete

Excel copies of reports are only valid when accompanied by this PDF certificate.

Retention period for records and reports is minimum 6 years from the date of issue of the final report.
Some records may be kept for longer according to other legal/best practice requirements.

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

Analytical Report Number: 25-056272

Project / Site name: Land North of School Lane, Arborfield

Lab Sample Number	719144	719145	719146	719147	719148
Sample Reference	WS01	WS02	WS03	WS03	WS04
Sample Number	1	1	1	2	1
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	0.20	0.30	0.20	0.60	0.30
Date Sampled	13/10/2025	13/10/2025	13/10/2025	13/10/2025	13/10/2025
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	9.8	9.9	13	15	13
Total mass of sample received	kg	0.1	NONE	0.3	0.3	0.2	0.2	0.9

Asbestos

Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected	-
Asbestos Analyst ID	N/A	N/A	N/A	KJK	OGR	KJK	OGR	-
Analysis completed	N/A	N/A	N/A	23/10/2025	22/10/2025	23/10/2025	22/10/2025	-

General Inorganics

pH (L099)	pH Units	N/A	MCERTS	6.4	7.4	7.1	7.4	-
Free Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	-
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	24	48	22	1/S ^{1/5}	-
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.0118	0.0238	0.0109	1/S ^{1/5}	-
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	11.8	23.8	10.9	1/S ^{1/5}	-
Fraction Organic Carbon (FOC) Automated	N/A	0.001	MCERTS	0.011	0.018	0.013	0.0035	-

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	-
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Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	-
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	-
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	-
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	-
Phenanthrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	-
Anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	-
Fluoranthene	mg/kg	0.05	MCERTS	0.24	0.08	0.09	< 0.05	-
Pyrene	mg/kg	0.05	MCERTS	0.22	0.08	0.09	< 0.05	-
Benzo(a)anthracene	mg/kg	0.05	MCERTS	0.2	0.06	0.05	< 0.05	-
Chrysene	mg/kg	0.05	MCERTS	0.2	< 0.05	< 0.05	< 0.05	-
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	0.23	0.1	< 0.05	< 0.05	-
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	< 0.05	< 0.05	< 0.05	< 0.05	-
Benzo(a)pyrene	mg/kg	0.05	MCERTS	0.2	< 0.05	< 0.05	< 0.05	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	0.09	< 0.05	< 0.05	< 0.05	-
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	-
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	-

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	1.38	< 0.80	< 0.80	< 0.80	-
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Analytical Report Number: 25-056272

Project / Site name: Land North of School Lane, Arborfield

Lab Sample Number	719144	719145	719146	719147	719148
Sample Reference	WS01	WS02	WS03	WS03	WS04
Sample Number	1	1	1	2	1
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	0.20	0.30	0.20	0.60	0.30
Date Sampled	13/10/2025	13/10/2025	13/10/2025	13/10/2025	13/10/2025
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	6.1	6.2	8.9	14	-
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	0.42	0.37	0.54	1.2	-
Boron (water soluble)	mg/kg	0.2	MCERTS	0.3	1	0.4	0.6	-
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	0.2	0.2	0.2	< 0.2	-
Chromium (hexavalent)	mg/kg	1.8	MCERTS	< 1.8	< 1.8	< 1.8	< 1.8	-
Chromium (III)	mg/kg	1	NONE	15	17	24	50	-
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	15	17	24	50	-
Copper (aqua regia extractable)	mg/kg	1	MCERTS	14	14	18	18	-
Lead (aqua regia extractable)	mg/kg	1	MCERTS	23	15	24	14	-
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	-
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	6.6	6.7	11	28	-
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	-
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	22	26	35	68	-
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	37	39	48	59	-

Petroleum Hydrocarbons

TPHCWG - Aliphatic >EC5 - EC6 HS_ID_AL	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010	-
TPHCWG - Aliphatic >EC6 - EC8 HS_ID_AL	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010	-
TPHCWG - Aliphatic >EC8 - EC10 HS_ID_AL	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010	-
TPHCWG - Aliphatic >EC10 - EC12 EH_CU_ID_AL	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	-
TPHCWG - Aliphatic >EC12 - EC16 EH_CU_ID_AL	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	-
TPHCWG - Aliphatic >EC16 - EC21 EH_CU_ID_AL	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0	-
TPHCWG - Aliphatic >EC16 - EC35 EH_CU_ID_AL	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	-
TPHCWG - Aliphatic >EC21 - EC35 EH_CU_ID_AL	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0	-
TPHCWG - Aliphatic >EC35 - EC44 EH_CU_ID_AL	mg/kg	8.4	NONE	< 8.4	< 8.4	< 8.4	< 8.4	-
TPHCWG - Aliphatic >EC5 - EC35 EH_CU+HS_ID_AL	mg/kg	10	NONE	< 10	< 10	< 10	< 10	-
TPHCWG - Aliphatic >EC5 - EC44 EH_CU+HS_ID_AL	mg/kg	10	NONE	< 10	< 10	< 10	< 10	-

TPHCWG - Aromatic >EC5 - EC7 HS_ID_AR	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010	-
TPHCWG - Aromatic >EC7 - EC8 HS_ID_AR	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010	-
TPHCWG - Aromatic >EC8 - EC10 HS_ID_AR	mg/kg	0.02	MCERTS	< 0.020	< 0.020	< 0.020	< 0.020	-
TPHCWG - Aromatic >EC10 - EC12 EH_CU_ID_AR	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	-
TPHCWG - Aromatic >EC12 - EC16 EH_CU_ID_AR	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	-
TPHCWG - Aromatic >EC16 - EC21 EH_CU_ID_AR	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	-
TPHCWG - Aromatic >EC21 - EC35 EH_CU_ID_AR	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	-
TPHCWG - Aromatic >EC35 - EC44 EH_CU_ID_AR	mg/kg	8.4	NONE	< 8.4	< 8.4	< 8.4	< 8.4	-
TPHCWG - Aromatic >EC5 - EC35 EH_CU+HS_ID_AR	mg/kg	10	NONE	< 10	< 10	< 10	< 10	-
TPHCWG - Aromatic >EC5 - EC44 EH_CU+HS_ID_AR	mg/kg	10	NONE	< 10	< 10	< 10	< 10	-

TPH Total >EC5 - EC44 EH_CU+HS_ID_TOTAL	mg/kg	10	NONE	< 10	< 10	< 10	< 10	-
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Analytical Report Number: 25-056272

Project / Site name: Land North of School Lane, Arborfield

Lab Sample Number	719144	719145	719146	719147	719148
Sample Reference	WS01	WS02	WS03	WS03	WS04
Sample Number	1	1	1	2	1
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	0.20	0.30	0.20	0.60	0.30
Date Sampled	13/10/2025	13/10/2025	13/10/2025	13/10/2025	13/10/2025
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

VOCs

MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	-
Benzene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	-
Toluene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	-
Ethylbenzene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	-
p & m-Xylene	µg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0	-
o-Xylene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	-

Pesticides (GC-MS)

Alpha-BHC (Benzene Hexachloride)	µg/kg	10	NONE	< 10	-	< 10	-	< 10
Alachlor	µg/kg	10	NONE	< 10	-	< 10	-	< 10
Bifenthrin	µg/kg	10	NONE	< 10	-	< 10	-	< 10
Cyhalothrin (Lambda)	µg/kg	10	NONE	< 10	-	< 10	-	< 10
Gamma-BHC (Lindane, gamma HCH)	µg/kg	10	NONE	< 10	-	< 10	-	< 10
Omethoate	µg/kg	10	NONE	< 10	-	< 10	-	< 10
1,2,3-Trichlorobenzene	µg/kg	10	NONE	< 10	-	< 10	-	< 10
1,3,5-Trichlorobenzene	µg/kg	10	NONE	< 10	-	< 10	-	< 10
2,6-Dichlorobenzonitrile	µg/kg	10	NONE	< 10	-	< 10	-	< 10
Dimethylvinphos	µg/kg	10	NONE	< 10	-	< 10	-	< 10
Demeton-O	µg/kg	10	NONE	< 10	-	< 10	-	< 10
Demeton-S	µg/kg	10	NONE	< 10	-	< 10	-	< 10
Endrin Aldehyde	µg/kg	10	NONE	< 10	-	< 10	-	< 10
Endrin Ketone	µg/kg	10	NONE	< 10	-	< 10	-	< 10
Hexachlorobutadiene	µg/kg	10	NONE	< 10	-	< 10	-	< 10
Phosphamidon (Sum)	µg/kg	10	NONE	< 10	-	< 10	-	< 10
1,2,4,5-Tetrachlorobenzene	µg/kg	10	NONE	< 10	-	< 10	-	< 10
Cis-Permethrin	µg/kg	10	NONE	< 10	-	< 10	-	< 10
Endosulfan sulfate	µg/kg	10	NONE	< 10	-	< 10	-	< 10
Etrimfos	µg/kg	10	NONE	< 10	-	< 10	-	< 10
Fenvalerate (Sum)	µg/kg	10	NONE	< 10	-	< 10	-	< 10
Hexachlorobenzene	µg/kg	10	NONE	< 10	-	< 10	-	< 10
Mevinphos, E+Z	µg/kg	10	NONE	< 10	-	< 10	-	< 10
Pentachlorobenzene	µg/kg	10	NONE	< 10	-	< 10	-	< 10
Pirimiphos-ethyl	µg/kg	10	NONE	< 10	-	< 10	-	< 10
Propetamphos	µg/kg	10	NONE	< 10	-	< 10	-	< 10
Tecnazene	µg/kg	10	NONE	< 10	-	< 10	-	< 10
Triadimefon	µg/kg	10	NONE	< 10	-	< 10	-	< 10
Trans-Permethrin	µg/kg	10	NONE	< 10	-	< 10	-	< 10
Aldrin	µg/kg	10	NONE	< 10	-	< 10	-	< 10
Azinphos-methyl	µg/kg	10	NONE	< 10	-	< 10	-	< 10
Beta-BHC	µg/kg	10	NONE	< 10	-	< 10	-	< 10
Cis-Chlordane	µg/kg	10	NONE	< 10	-	< 10	-	< 10
Chlorfenvinphos	µg/kg	10	NONE	< 10	-	< 10	-	< 10
Chlorpyrifos	µg/kg	10	NONE	< 10	-	< 10	-	< 10
Chlorothalonil	µg/kg	10	NONE	< 10	-	< 10	-	< 10
Carbophenothion	µg/kg	10	NONE	< 10	-	< 10	-	< 10
Cyfluthrin (Sum)	µg/kg	10	NONE	< 10	-	< 10	-	< 10
Delta-BHC	µg/kg	10	NONE	< 10	-	< 10	-	< 10

Analytical Report Number: 25-056272

Project / Site name: Land North of School Lane, Arborfield

Lab Sample Number				719144	719145	719146	719147	719148
Sample Reference				WS01	WS02	WS03	WS03	WS04
Sample Number				1	1	1	2	1
Water Matrix				N/A	N/A	N/A	N/A	N/A
Depth (m)				0.20	0.30	0.20	0.60	0.30
Date Sampled				13/10/2025	13/10/2025	13/10/2025	13/10/2025	13/10/2025
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status					
Dieldrin	µg/kg	10	NONE	< 10	-	< 10	-	< 10
Deltamethrin	µg/kg	10	NONE	< 10	-	< 10	-	< 10
Heptachlor Exo-epoxide	µg/kg	10	NONE	< 10	-	< 10	-	< 10
Endrin	µg/kg	10	NONE	< 10	-	< 10	-	< 10
Endosulfan I (alpha isomer)	µg/kg	10	NONE	< 10	-	< 10	-	< 10
Endosulfan II (beta isomer)	µg/kg	10	NONE	< 10	-	< 10	-	< 10
Fenthion	µg/kg	10	NONE	< 10	-	< 10	-	< 10
Isodrin	µg/kg	10	NONE	< 10	-	< 10	-	< 10
Methacrifos	µg/kg	10	NONE	< 10	-	< 10	-	< 10
O,p'-DDD	µg/kg	10	NONE	< 10	-	< 10	-	< 10
O,p'-DDE	µg/kg	10	NONE	< 10	-	< 10	-	< 10
O,p'-DDT	µg/kg	10	NONE	< 10	-	< 10	-	< 10
Parathion	µg/kg	10	NONE	< 10	-	< 10	-	< 10
Parathion-methyl	µg/kg	10	NONE	< 10	-	< 10	-	< 10
Pendimethalin	µg/kg	10	NONE	< 10	-	< 10	-	< 10
Phorate	µg/kg	10	NONE	< 10	-	< 10	-	< 10
Phosalone	µg/kg	10	NONE	< 10	-	< 10	-	< 10
P,p'-DDD	µg/kg	10	NONE	< 10	-	< 10	-	< 10
P,p'-DDE	µg/kg	10	NONE	< 10	-	< 10	-	< 10
P,p'-DDT	µg/kg	10	NONE	< 10	-	< 10	-	< 10
P,p'-Methoxychlor	µg/kg	10	NONE	< 10	-	< 10	-	< 10
Propyzamide	µg/kg	10	NONE	< 10	-	< 10	-	< 10
Triazophos	µg/kg	10	NONE	< 10	-	< 10	-	< 10
Trans-Chlordane	µg/kg	10	NONE	< 10	-	< 10	-	< 10
Cypermethrin (Sum)	µg/kg	10	NONE	< 10	-	< 10	-	< 10
Dichlorvos	µg/kg	10	NONE	< 10	-	< 10	-	< 10
Dimethoate	µg/kg	10	NONE	< 10	-	< 10	-	< 10
Diazinon	µg/kg	10	NONE	< 10	-	< 10	-	< 10
Ethion	µg/kg	10	NONE	< 10	-	< 10	-	< 10
Fenitrothion	µg/kg	10	NONE	< 10	-	< 10	-	< 10
Malathion	µg/kg	10	NONE	< 10	-	< 10	-	< 10
Pirimiphos-methyl	µg/kg	10	NONE	< 10	-	< 10	-	< 10
Trifluralin	µg/kg	10	NONE	< 10	-	< 10	-	< 10
Azinphos-ethyl	µg/kg	10	NONE	< 10	-	< 10	-	< 10

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

Analytical Report Number: 25-056272

Project / Site name: Land North of School Lane, Arborfield

Lab Sample Number	719149	719150
Sample Reference	WS05	WS05
Sample Number	1	2
Water Matrix	N/A	N/A
Depth (m)	0.10	0.50
Date Sampled	13/10/2025	13/10/2025
Time Taken	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection
		Test Accreditation Status

Stone Content	%	0.1	NONE	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	12	7.9
Total mass of sample received	kg	0.1	NONE	0.3	0.2

Asbestos

Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	Not-detected	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	KJK	KJK
Analysis completed	N/A	N/A	N/A	23/10/2025	23/10/2025

General Inorganics

pH (L099)	pH Units	N/A	MCERTS	7.1	8
Free Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	20	16
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.0101	0.00804
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	10.1	8.04
Fraction Organic Carbon (FOC) Automated	N/A	0.001	MCERTS	0.017	0.0049

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0
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Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	0.13	< 0.05
Anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	0.23	< 0.05
Pyrene	mg/kg	0.05	MCERTS	0.19	< 0.05
Benzo(a)anthracene	mg/kg	0.05	MCERTS	0.11	< 0.05
Chrysene	mg/kg	0.05	MCERTS	0.18	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	0.13	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	0.12	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	1.08	< 0.80
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Analytical Report Number: 25-056272

Project / Site name: Land North of School Lane, Arborfield

Lab Sample Number	719149	719150
Sample Reference	WS05	WS05
Sample Number	1	2
Water Matrix	N/A	N/A
Depth (m)	0.10	0.50
Date Sampled	13/10/2025	13/10/2025
Time Taken	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection
		Test Accreditation Status

Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	6.2	9.4
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	0.43	0.89
Boron (water soluble)	mg/kg	0.2	MCERTS	0.9	0.3
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	1.8	MCERTS	< 1.8	< 1.8
Chromium (III)	mg/kg	1	NONE	18	33
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	18	33
Copper (aqua regia extractable)	mg/kg	1	MCERTS	14	11
Lead (aqua regia extractable)	mg/kg	1	MCERTS	18	8.7
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	8.3	21
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	28	47
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	42	45

Petroleum Hydrocarbons

TPHCWG - Aliphatic >EC5 - EC6 _{HS_1D_AL}	mg/kg	0.01	MCERTS	< 0.010	< 0.010
TPHCWG - Aliphatic >EC6 - EC8 _{HS_1D_AL}	mg/kg	0.01	MCERTS	< 0.010	< 0.010
TPHCWG - Aliphatic >EC8 - EC10 _{HS_1D_AL}	mg/kg	0.01	MCERTS	< 0.010	< 0.010
TPHCWG - Aliphatic >EC10 - EC12 _{EH_CU_1D_AL}	mg/kg	1	MCERTS	< 1.0	< 1.0
TPHCWG - Aliphatic >EC12 - EC16 _{EH_CU_1D_AL}	mg/kg	2	MCERTS	< 2.0	< 2.0
TPHCWG - Aliphatic >EC16 - EC21 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	< 8.0	< 8.0
TPHCWG - Aliphatic >EC16 - EC35 _{EH_CU_1D_AL}	mg/kg	10	MCERTS	< 10	< 10
TPHCWG - Aliphatic >EC21 - EC35 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	< 8.0	< 8.0
TPHCWG - Aliphatic >EC35 - EC44 _{EH_CU_1D_AL}	mg/kg	8.4	NONE	< 8.4	< 8.4
TPHCWG - Aliphatic >EC5 - EC35 _{EH_CU+HS_1D_AL}	mg/kg	10	NONE	< 10	< 10
TPHCWG - Aliphatic >EC5 - EC44 _{EH_CU+HS_1D_AL}	mg/kg	10	NONE	< 10	< 10

TPHCWG - Aromatic >EC5 - EC7 _{HS_1D_AR}	mg/kg	0.01	MCERTS	< 0.010	< 0.010
TPHCWG - Aromatic >EC7 - EC8 _{HS_1D_AR}	mg/kg	0.01	MCERTS	< 0.010	< 0.010
TPHCWG - Aromatic >EC8 - EC10 _{HS_1D_AR}	mg/kg	0.02	MCERTS	< 0.020	< 0.020
TPHCWG - Aromatic >EC10 - EC12 _{EH_CU_1D_AR}	mg/kg	1	MCERTS	< 1.0	< 1.0
TPHCWG - Aromatic >EC12 - EC16 _{EH_CU_1D_AR}	mg/kg	2	MCERTS	< 2.0	< 2.0
TPHCWG - Aromatic >EC16 - EC21 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	< 10	< 10
TPHCWG - Aromatic >EC21 - EC35 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	< 10	< 10
TPHCWG - Aromatic >EC35 - EC44 _{EH_CU_1D_AR}	mg/kg	8.4	NONE	< 8.4	< 8.4
TPHCWG - Aromatic >EC5 - EC35 _{EH_CU+HS_1D_AR}	mg/kg	10	NONE	< 10	< 10
TPHCWG - Aromatic >EC5 - EC44 _{EH_CU+HS_1D_AR}	mg/kg	10	NONE	< 10	< 10

TPH Total >EC5 - EC44 _{EH_CU+HS_1D_TOTAL}	mg/kg	10	NONE	< 10	< 10
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Analytical Report Number: 25-056272

Project / Site name: Land North of School Lane, Arborfield

Lab Sample Number				719149	719150
Sample Reference				WS05	WS05
Sample Number				1	2
Water Matrix				N/A	N/A
Depth (m)				0.10	0.50
Date Sampled				13/10/2025	13/10/2025
Time Taken				None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

VOCs

MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	MCERTS	< 5.0	< 5.0
Benzene	µg/kg	5	MCERTS	< 5.0	< 5.0
Toluene	µg/kg	5	MCERTS	< 5.0	< 5.0
Ethylbenzene	µg/kg	5	MCERTS	< 5.0	< 5.0
p & m-Xylene	µg/kg	8	MCERTS	< 8.0	< 8.0
o-Xylene	µg/kg	5	MCERTS	< 5.0	< 5.0

Pesticides (GC-MS)

Alpha-BHC (Benzene Hexachloride)	µg/kg	10	NONE	< 10	-
Alachlor	µg/kg	10	NONE	< 10	-
Bifenthrin	µg/kg	10	NONE	< 10	-
Cyhalothrin (Lambda)	µg/kg	10	NONE	< 10	-
Gamma-BHC (Lindane, gamma HCH)	µg/kg	10	NONE	< 10	-
Omethoate	µg/kg	10	NONE	< 10	-
1,2,3-Trichlorobenzene	µg/kg	10	NONE	< 10	-
1,3,5-Trichlorobenzene	µg/kg	10	NONE	< 10	-
2,6-Dichlorobenzonitrile	µg/kg	10	NONE	< 10	-
Dimethylvinphos	µg/kg	10	NONE	< 10	-
Demeton-O	µg/kg	10	NONE	< 10	-
Demeton-S	µg/kg	10	NONE	< 10	-
Endrin Aldehyde	µg/kg	10	NONE	< 10	-
Endrin Ketone	µg/kg	10	NONE	< 10	-
Hexachlorobutadiene	µg/kg	10	NONE	< 10	-
Phosphamidon (Sum)	µg/kg	10	NONE	< 10	-
1,2,4,5-Tetrachlorobenzene	µg/kg	10	NONE	< 10	-
Cis-Permethrin	µg/kg	10	NONE	< 10	-
Endosulfan sulfate	µg/kg	10	NONE	< 10	-
Etrimfos	µg/kg	10	NONE	< 10	-
Fenvalerate (Sum)	µg/kg	10	NONE	< 10	-
Hexachlorobenzene	µg/kg	10	NONE	< 10	-
Mevinphos, E+Z	µg/kg	10	NONE	< 10	-
Pentachlorobenzene	µg/kg	10	NONE	< 10	-
Pirimiphos-ethyl	µg/kg	10	NONE	< 10	-
Propetamphos	µg/kg	10	NONE	< 10	-
Tecnazene	µg/kg	10	NONE	< 10	-
Triadimefon	µg/kg	10	NONE	< 10	-
Trans-Permethrin	µg/kg	10	NONE	< 10	-
Aldrin	µg/kg	10	NONE	< 10	-
Azinphos-methyl	µg/kg	10	NONE	< 10	-
Beta-BHC	µg/kg	10	NONE	< 10	-
Cis-Chlordane	µg/kg	10	NONE	< 10	-
Chlorfenvinphos	µg/kg	10	NONE	< 10	-
Chlorpyrifos	µg/kg	10	NONE	< 10	-
Chlorothalonil	µg/kg	10	NONE	< 10	-
Carbophenothion	µg/kg	10	NONE	< 10	-
Cyfluthrin (Sum)	µg/kg	10	NONE	< 10	-
Delta-BHC	µg/kg	10	NONE	< 10	-

Analytical Report Number: 25-056272

Project / Site name: Land North of School Lane, Arborfield

Lab Sample Number				719149	719150
Sample Reference				WS05	WS05
Sample Number				1	2
Water Matrix				N/A	N/A
Depth (m)				0.10	0.50
Date Sampled				13/10/2025	13/10/2025
Time Taken				None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		
Dieldrin	µg/kg	10	NONE	< 10	-
Deltamethrin	µg/kg	10	NONE	< 10	-
Heptachlor Exo-epoxide	µg/kg	10	NONE	< 10	-
Endrin	µg/kg	10	NONE	< 10	-
Endosulfan I (alpha isomer)	µg/kg	10	NONE	< 10	-
Endosulfan II (beta isomer)	µg/kg	10	NONE	< 10	-
Fenthion	µg/kg	10	NONE	< 10	-
Isodrin	µg/kg	10	NONE	< 10	-
Methacrifos	µg/kg	10	NONE	< 10	-
O,p'-DDD	µg/kg	10	NONE	< 10	-
O,p'-DDE	µg/kg	10	NONE	< 10	-
O,p'-DDT	µg/kg	10	NONE	< 10	-
Parathion	µg/kg	10	NONE	< 10	-
Parathion-methyl	µg/kg	10	NONE	< 10	-
Pendimethalin	µg/kg	10	NONE	< 10	-
Phorate	µg/kg	10	NONE	< 10	-
Phosalone	µg/kg	10	NONE	< 10	-
P,p'-DDD	µg/kg	10	NONE	< 10	-
P,p'-DDE	µg/kg	10	NONE	< 10	-
P,p'-DDT	µg/kg	10	NONE	< 10	-
P,p'-Methoxychlor	µg/kg	10	NONE	< 10	-
Propyzamide	µg/kg	10	NONE	< 10	-
Triazophos	µg/kg	10	NONE	< 10	-
Trans-Chlordane	µg/kg	10	NONE	< 10	-
Cypermethrin (Sum)	µg/kg	10	NONE	< 10	-
Dichlorvos	µg/kg	10	NONE	< 10	-
Dimethoate	µg/kg	10	NONE	< 10	-
Diazinon	µg/kg	10	NONE	< 10	-
Ethion	µg/kg	10	NONE	< 10	-
Fenitrothion	µg/kg	10	NONE	< 10	-
Malathion	µg/kg	10	NONE	< 10	-
Pirimiphos-methyl	µg/kg	10	NONE	< 10	-
Trifluralin	µg/kg	10	NONE	< 10	-
Azinphos-ethyl	µg/kg	10	NONE	< 10	-

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

Analytical Report Number : 25-056272

Project / Site name: Land North of School Lane, Arborfield

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
719144	WS01	1	0.2	Brown loam and sand with vegetation
719145	WS02	1	0.3	Brown loam and sand with gravel and vegetation
719146	WS03	1	0.2	Brown loam and sand with gravel and vegetation
719147	WS03	2	0.6	Brown clay and sand with gravel and vegetation
719148	WS04	1	0.3	Brown loam and clay with vegetation
719149	WS05	1	0.1	Brown loam and sand with gravel and vegetation
719150	WS05	2	0.5	Brown clay and sand with gravel and vegetation

Analytical Report Number : 25-056272

Project / Site name: Land North of School Lane, Arborfield

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)

Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Asbestos identification in Soil	Asbestos Identification with the use of polarised light microscopy in conjunction with dispersion staining techniques	In-house method based on HSG 248, 2021	A001B	D	ISO 17025
Moisture Content	Moisture content, determined gravimetrically (up to 30°C)	In-house method	L019B	W	NONE
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight	In-house method based on British Standard Methods and MCERTS requirements.	L019B	D	NONE
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil	L038B	D	MCERTS
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES	In-house method based on Second Site Properties version 3	L038B	D	MCERTS
Sulphate, water soluble, in soil (16hr extraction)	Sulphate, water soluble, in soil (16hr extraction)	In-house method	L038B	D	MCERTS
Pesticides by GC-MS/MS	Determination of Pesticides in soil by GC MS/MS	In-house method	L055B	W	NONE
Speciated PAHs and/or Semi-volatile organic compounds in soil	Determination of semi-volatile organic compounds (including PAH) in soil by extraction in dichloromethane and hexane followed by GC-MS	In-house method based on USEPA 8270	L064B	D	MCERTS
TPH Chromatogram in soil	TPH Chromatogram in soil	In-house method	L064B	D	NONE
BTEX and/or Volatile organic compounds in soil	Determination of volatile organic compounds in soil by headspace GC-MS	In-house method based on USEPA 8260	L073B	W	MCERTS
Total petroleum hydrocarbons with carbon banding by GC-FID in soil	Determination of total petroleum hydrocarbons in soil by GC-FID with carbon banding aliphatic and aromatic	In-house method	L076B	D	MCERTS
Total petroleum hydrocarbons with carbon banding by GC-FID/GC-MS HS in soil (Summed Bands)	Determination of total petroleum hydrocarbons in soil by GC-FID/GC-MS HS with carbon banding aliphatic and aromatic (Summed Bands).	Calculation	L076B/L088-PL	D/W	NONE
Chromium III in soil	In-house method by calculation from total Cr and Cr VI	In-house method by calculation	L080-PL/L130B	W	NONE
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in NaOH and addition of 1,5 diphenylcarbazide followed by colorimetry	In-house method	L080-PL	W	MCERTS
Free cyanide in soil	Determination of free cyanide by distillation followed by colorimetry	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	MCERTS
Monohydric phenols in soil	Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	MCERTS

Analytical Report Number : 25-056272

Project / Site name: Land North of School Lane, Arborfield

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)

Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Total petroleum hydrocarbons with carbon banding by HS-GC/MS in soil	Determination of total petroleum hydrocarbons in soil by HS-GC/MS with carbon banding aliphatic and aromatic	In-house method	L088-PL	W	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement	In-house method	L099-PL	D	MCERTS
Fraction Organic Carbon FOC Automated	Determination of fraction of organic carbon in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate	In-house method	L009B	D	MCERTS
Soil Descriptions	Textural classification	In-house method	L019B	W	NONE

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

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

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

Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30°C.

Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.

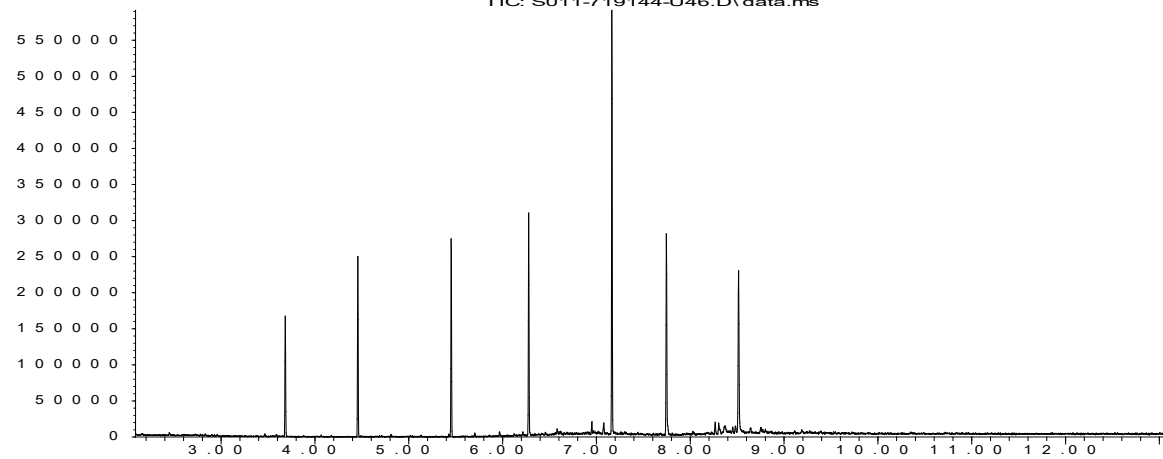
Quality control parameter failure associated with individual result applies to calculated sum of individuals.

The result for sum should be interpreted with caution

*I/S- Insufficient sample for analysis.

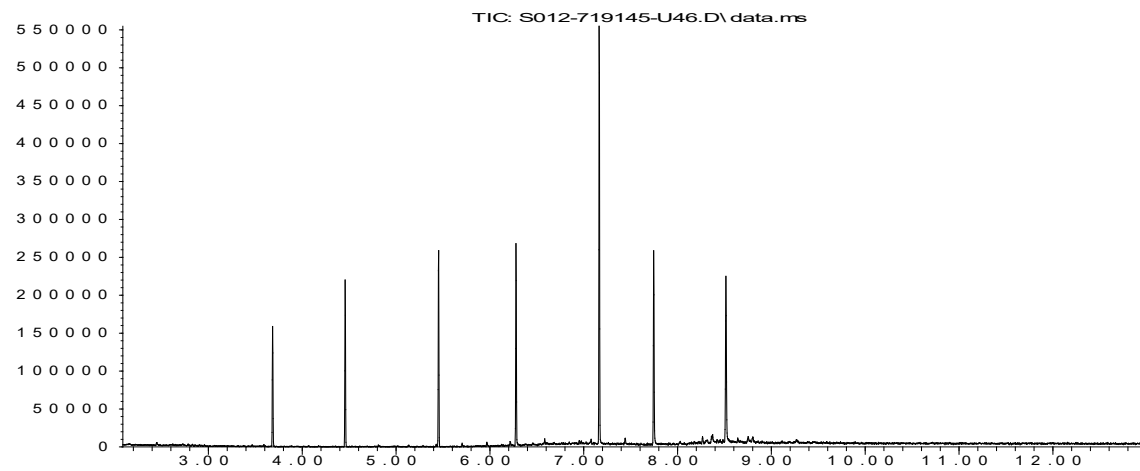
Abundance

TIC: S011-719144-U46.D\data.ms

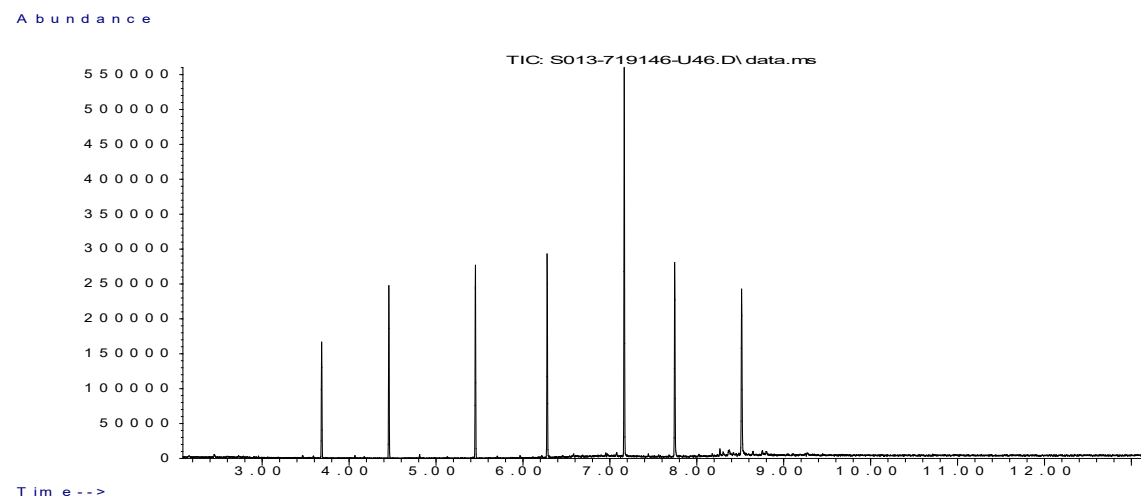


Time -->

Abundance

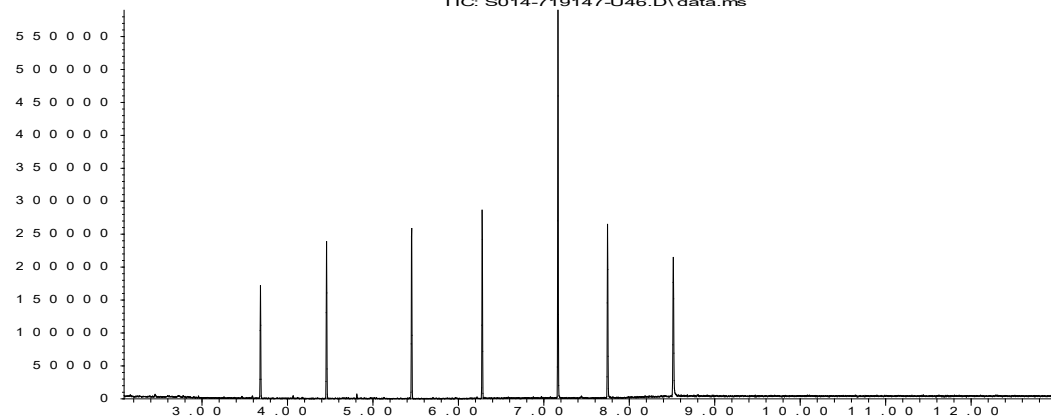


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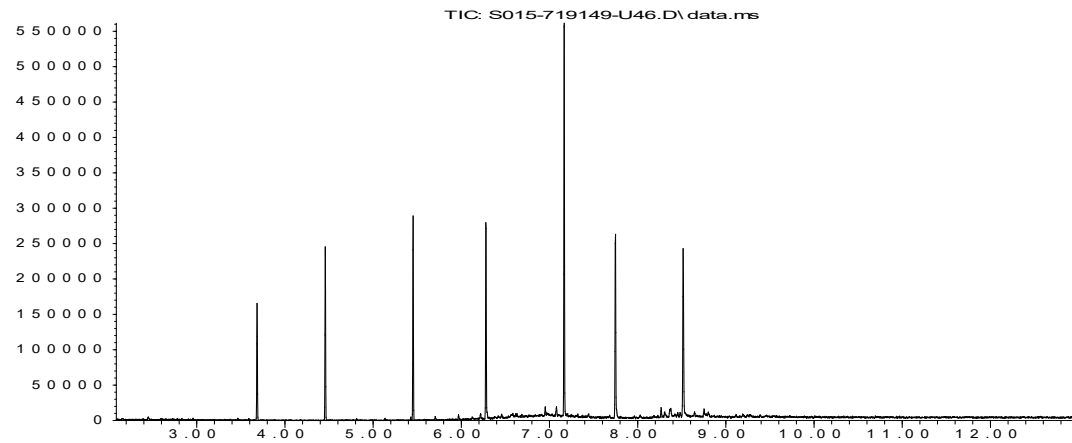
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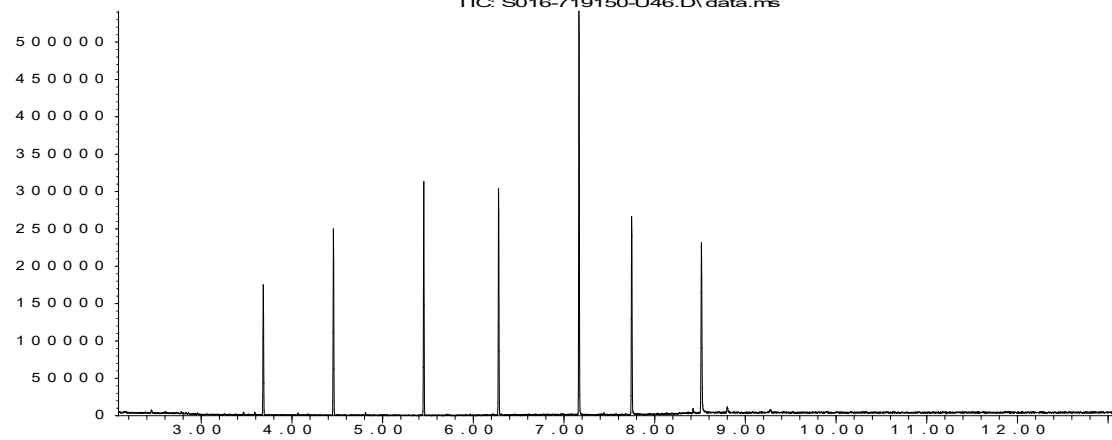
Abundance



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TIC: S016-719150-U46.D\data.ms



Time-->



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Analytical Report Number : 25-057714

Project / Site name:	Land North of School Lane, Arborfield Cross	Samples received on:	24/10/2025
Your job number:	333801775	Samples instructed on/ Analysis started on:	24/10/2025
Your order number:	EPL049995	Analysis completed by:	03/11/2025
Report Issue Number:	1	Report issued on:	04/11/2025
Samples Analysed:	9 soil samples		

Signed:

Anna Goc
PL Head of Reporting Team
For & on behalf of i2 Analytical Ltd.

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

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

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

Retention period for records and reports is minimum 6 years from the date of issue of the final report.
Some records may be kept for longer according to other legal/best practice requirements.

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

Analytical Report Number: 25-057714
Project / Site name: Land North of School Lane, Arborfield Cross

Lab Sample Number	727344	727345	727346	727347	727348
Sample Reference	TP01	TP01	TP01	TP02	TP04
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	0.30-0.40	1.30-1.40	2.30-2.40	0.60-0.70	2.60-2.70
Date Sampled	15/10/2025	15/10/2025	15/10/2025	15/10/2025	15/10/2025
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	9.3	16	16	7.4	19
Total mass of sample received	kg	0.1	NONE	0.7	0.7	0.7	0.6	0.6

General Inorganics

pH (L099)	pH Units	N/A	MCERTS	8.1	7.9	8.2	8.2	7.6
Total Sulphate as SO ₄	mg/kg	50	MCERTS	250	86	200	320	86
Total Sulphate as SO ₄	%	0.005	MCERTS	0.025	0.009	0.02	0.032	0.009
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	32	34	38	44	34
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.0158	0.017	0.0191	0.0217	0.0167
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	15.8	17	19.1	21.7	16.7
Water Soluble Chloride (2:1)	mg/kg	1	MCERTS	5.3	6.5	5.5	4.2	6.8
Water Soluble Chloride (2:1) (leachate equivalent)	mg/l	0.5	MCERTS	2.7	3.2	2.7	2.1	3.4
Total Sulphur	mg/kg	50	MCERTS	200	86	120	160	53
Total Sulphur	%	0.005	MCERTS	0.02	0.009	0.012	0.016	0.005
Ammoniacal Nitrogen as NH ₄ ⁺	mg/kg	0.5	MCERTS	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Ammonium as NH ₄ ⁺ (10:1 leachate equivalent)	mg/l	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Water Soluble Nitrate (2:1) as NO ₃	mg/kg	2	NONE	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Water Soluble Nitrate (2:1) as NO ₃ (leachate equivalent)	mg/l	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0

Heavy Metals / Metalloids

Magnesium (leachate equivalent)	mg/l	2.5	NONE	5.6	6.5	6.8	4.4	8
Magnesium (water soluble)	mg/kg	5	NONE	11	13	14	8.8	16

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

Analytical Report Number: 25-057714

Project / Site name: Land North of School Lane, Arborfield Cross

Lab Sample Number	727349	727350	727351	727352
Sample Reference	WS01	WS02	WS03	WS04
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix	N/A	N/A	N/A	N/A
Depth (m)	4.00-4.20	2.00	1.00	2.00-2.20
Date Sampled	15/10/2025	15/10/2025	15/10/2025	15/10/2025
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status	

Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	17	19	11	18
Total mass of sample received	kg	0.1	NONE	0.3	0.6	0.3	0.4

General Inorganics

pH (L099)	pH Units	N/A	MCERTS	8.1	7.9	8.1	6.9
Total Sulphate as SO ₄	mg/kg	50	MCERTS	410	470	89	100
Total Sulphate as SO ₄	%	0.005	MCERTS	0.041	0.047	0.009	0.01
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	400	350	36	32
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.202	0.177	0.0179	0.016
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	202	177	17.9	16
Water Soluble Chloride (2:1)	mg/kg	1	MCERTS	17	100	6.6	17
Water Soluble Chloride (2:1) (leachate equivalent)	mg/l	0.5	MCERTS	8.6	50	3.3	8.7
Total Sulphur	mg/kg	50	MCERTS	1700	200	68	77
Total Sulphur	%	0.005	MCERTS	0.17	0.02	0.007	0.008
Ammoniacal Nitrogen as NH ₄ ⁺	mg/kg	0.5	MCERTS	2	< 0.5	< 0.5	< 0.5
Ammonium as NH ₄ ⁺ (10:1 leachate equivalent)	mg/l	0.05	MCERTS	0.13	< 0.05	< 0.05	< 0.05
Water Soluble Nitrate (2:1) as NO ₃	mg/kg	2	NONE	< 2.0	< 2.0	< 2.0	< 2.0
Water Soluble Nitrate (2:1) as NO ₃ (leachate equivalent)	mg/l	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0

Heavy Metals / Metalloids

Magnesium (leachate equivalent)	mg/l	2.5	NONE	22	22	4.6	150
Magnesium (water soluble)	mg/kg	5	NONE	43	45	9.3	300

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



Analytical Report Number : 25-057714
Project / Site name: Land North of School Lane, Arborfield Cross

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
727344	TP01	None Supplied	0.30-0.40	Brown clay and sand with vegetation and gravel
727345	TP01	None Supplied	1.30-1.40	Brown clay and sand
727346	TP01	None Supplied	2.30-2.40	Brown clay
727347	TP02	None Supplied	0.60-0.70	Brown sand with vegetation and chalk
727348	TP04	None Supplied	2.60-2.70	Brown clay and sand
727349	WS01	None Supplied	4.00-4.20	Brown clay with vegetation
727350	WS02	None Supplied	2	Brown clay with gravel and vegetation
727351	WS03	None Supplied	1	Brown clay and sand with vegetation
727352	WS04	None Supplied	2.00-2.20	Brown clay and sand

Analytical Report Number : 25-057714

Project / Site name: Land North of School Lane, Arborfield Cross

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)

Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Moisture Content	Moisture content, determined gravimetrically (up to 30°C)	In-house method	L019B	W	NONE
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight	In-house method based on British Standard Methods and MCERTS requirements.	L019B	D	NONE
Magnesium, water soluble, in soil	Determination of water soluble magnesium by extraction with water followed by ICP-OES	In-house method based on TRL 447	L038B	D	NONE
Total sulphate (as SO ₄ in soil)	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES	In-house method	L038B	D	MCERTS
Sulphate, water soluble, in soil (16hr extraction)	Sulphate, water soluble, in soil (16hr extraction)	In-house method	L038B	D	MCERTS
Total Sulphur in soil	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES	In-house method	L038B	D	MCERTS
Water Soluble Nitrate (leachate equivalent)	Determination of nitrate by reaction with sodium salicylate and colorimetry	In-house method based on Examination of Water and Wastewater & Polish Standard Method PN-82/C-04579.08, 2:1 extraction	L078-PL	W	NONE
Nitrate, water soluble, in soil	Determination of nitrate by reaction with sodium salicylate and colorimetry	In-house method based on Examination of Water and Wastewater & Polish Standard Method PN-82/C-04579.08, 2:1 extraction	L078-PL	W	NONE
Chloride, water soluble, in soil	Determination of Chloride colorimetrically by discrete analyser	In-house method	L082B	D	MCERTS
Ammonium as NH ₄ in soil	Determination of Ammonium/Ammonia/ Ammoniacal Nitrogen by the colorimetric salicylate/nitroprusside method, 10:1 water extraction.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L082B	W	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement	In-house method	L099-PL	D	MCERTS
Soil Descriptions	Textural classification	In-house method	L019B	W	NONE

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

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

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

Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30°C.

Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.

Quality control parameter failure associated with individual result applies to calculated sum of individuals.

The result for sum should be interpreted with caution

Human health GAC screening results



Assessment of Chemicals of Potential Concern to Human Health

Risk parameter:										Default - Human Health - residential with home-grown produce (2.5NSDM)										Data Filters										Stantec									
Client:										Crowdace Homes										All										All									
Site:										Aspenfield Cross										All										All									
Job no.:										JH-08										0.1										0.1									
Lab. report no(s):										25-056272-1										Depth Max (m) (all)										0.6									
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All values in mg/kg unless otherwise stated																				2.5																			
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Phytotoxic GAC screening results



Assessment of Chemicals of Potential Concern to Plant Life

Risk parameter:

Client:

Site:

Job no.:

Lab. report no(s).:

Phytotoxic pH 7

Croudace Homes

Arborfield Cross

3.34E+08

25-056272-1

Data Filters

Zone

Strata

Depth Min (m bgl)

Depth Max (m bgl)

All

All

0.1

0.6

Stantec

Date

13/10/2025

13/10/2025

13/10/2025

13/10/2025

13/10/2025

13/10/2025

13/10/2025

Zone

Location

WS02

WS03

WS01

WS03

WS05

WS05

WS05

Depth (m bgl)

0.3

0.6

0.2

0.2

0.1

0.5

0.5

Dataset mean pH

7.23

Scenario pH

7

All values in mg/kg unless otherwise stated

CAS No / P Code	Chemical of Potential Concern	Units	LoD	No. Samples	Min. Value	Max. Value	Mean	Median	Standard Deviation	No. Samples >= GAC & > LoD	GAC	GAC Source	Strata	TOP	LC	Top	TOP	TOP	Alluvium
	Hydrock Default Suite - FOC / SOM / pH																		
P1334	pH (su)	pH Units	0.1	6	6.40	8.00	7.23	7.25	0.52		-	-		7.4	7.4	6.4	7.1	7.1	8
	Hydrock Default Suite - Metals & PAH																		
7440-38-2	Arsenic	mg/kg	1	6	6.10	14.00	8.47	7.55	3.08	0	250	MAFF 1998		6.2	14	6.1	8.9	6.2	9.4
7440-42-8	Boron	mg/kg	0.2	6	0.30	1.00	0.58	0.50	0.31	0	5	Nable, et al. 1997		1	0.6	0.3	0.4	0.9	0.3
16065-83-1	Chromium (III)	mg/kg	1	6	15.00	50.00	26.17	21.00	13.38	0	400	MAFF 1998 (Cr(TI))		17	50	15	24	18	33
7440-50-8	Copper	mg/kg	1	6	11.00	18.00	14.83	14.00	2.71	0	135	BS3882 2015		14	18	14	18	14	11
7440-02-0	Nickel	mg/kg	1	6	6.60	28.00	13.60	9.65	8.87	0	75	BS3882 2015		6.7	28	6.6	11	8.3	21
7440-66-6	Zinc	mg/kg	1	6	37.00	59.00	45.00	43.50	7.92	0	300	BS3882 2015		39	59	37	48	42	45

Appendix F Geotechnical Risk Register

Geotechnical Hazard Identification – Following Ground Investigation

The preliminary Geotechnical Risk Register following Ground Investigation is set out in Table 12-2.

The probability and impact of a hazard have been judged on a qualitative scale as set out in Table 12-1. The degree of risk (R) is determined by combining an assessment of the probability (P) of the hazard occurring with an assessment of the impact (I) of the hazard and associated mitigation it will require if it occurs ($R = P \times I$).

Table 12-1: Qualitative assessment of hazards and risks

P = probability		I = impact		R = risk rating (P x I)	
1	Very unlikely	1	Very low	1-4	None/negligible
2	Unlikely	2	Low	5-9	Minor
3	Plausible	3	Medium	10-14	Moderate
4	Likely	4	High	15-19	Substantial
5	Very likely	5	Very high	20-25	Severe

Table 12-2: Preliminary geotechnical risk register

Hazard	Comments	Who is at risk	Consequence	Risk before mitigation			Actions required
				P	I	R	
Uncontrolled Made Ground (variable strength and compressibility).	Made Ground was not encountered during the investigation however this does not eliminate	Residential Dwellings.	Bearing capacity failure, settlement (total and differential).	2	4	8	Where Made Ground is encountered, design foundations to found below Made Ground.
			Floor slab failure.	3	4	12	If significant Made Ground is present, design floor slabs as suspended.



Phase 2 Ground Investigation Report

Hazard	Comments	Who is at risk	Consequence	Risk before mitigation			Actions required
	its potential presence on site.	Roads and Pavements.	Settlement (total and differential) of roads and pavements.	2	4	8	Design roads and pavements using suitable geotechnical parameters and increase the sub-base and use geo-grids as appropriate if significant sMade Ground is encountered.
		Construction staff, vehicles and plant operators.	Trafficking of the site in temporary conditions. Overturning of plant during construction.	3	4	12	Where soft spots encountered, over-excavate and replacement with suitable fill. Site inspection and watching brief by Contractor to review working platform frequently and regularly.
Soft / loose ground (low strength and high settlement potential).	The shallow natural soils comprise River Terrace Deposits, which consist of soft clay and loose sand in places.	Residential Dwellings.	Foundation bearing capacity failure, settlement (total and differential).	4	4	16	Design foundations to found below any loose sand and gravel or soft clay. Remove soft spots or deepen foundations as necessary.
			Floor slab failure.	3	4	12	If significant poor ground is encountered, design floor slab as suspended
		Roads and Pavements.	Settlement (total and differential), of roads and pavements.	3	4	12	Design roads and pavements using suitable geotechnical parameters and increase the sub-base and use geo-grids as appropriate. If anticipated settlements are significant, and cannot be mitigated by design, over-excavate and replace soft soils.
		Construction staff, vehicles and plant operators.	Trafficking of the site in temporary conditions. Overturning of plant during construction.	3	4	12	Where soft spots encountered, over-excavate and replace with suitable fill. Design working platform to suit the ground conditions. Outline design of working platform to include geo-grid if necessary. Site inspection and watching brief by Contractor to review working platform frequently and regularly.
Shrinkage / swelling of the clay fraction of soils under the influence of vegetation.	The shallow soils have low to high plasticity and a moderate volume change potential. Buildings in the vicinity of existing trees may be affected	Foundations.	Shrinkage or heave of soils and associated damage to foundations.	4	4	16	Design foundations in accordance with NHBC standards. Deepen foundations due to trees as appropriate.
		Floor slabs.	Floor slab failure.	3	4	12	Design floor slabs in accordance with NHBC standards.



Phase 2 Ground Investigation Report

Hazard	Comments	Who is at risk	Consequence	Risk before mitigation			Actions required
Variable lateral and vertical changes in ground conditions	The shallow soils comprise River Terrace Deposits, which vary laterally and vertically between soft clay, loose sand and sandy gravel.	Residential Dwellings.	Foundation bearing capacity failure, settlement (total and differential).	3	4	12	Design foundations to found below any loose sand or soft clay. Inspect the foundation formation for any significant variation in composition of the ground. Locally excavate soft spots or deepen foundations to accommodate variations in ground composition.
			Floor slab failure.	3	4	12	Design floor slab as suspended.
		Roads and Pavements.	Settlement (total and differential), of roads and pavements.	3	4	12	Design roads and pavements using suitable geotechnical parameters and increase the sub-base and use geo-grids as appropriate. If anticipated settlements are significant and cannot be mitigated by design, over-excavate and replace with suitable compacted engineered fill.
		Construction staff, vehicles and plant operators.	Trafficking of the site in temporary conditions. Overturning of plant during construction.	3	4	12	Where soft spots encountered, over-excavate and replace with suitable fill. Design working platform to suit the ground conditions. Outline design of working platform to include geo-grid if necessary. Site inspection and watching brief by Contractor to review working platform frequently and regularly.
Sulphates present in the soils.	The ground investigation has proven that there is the potential for expansive sulphate bearing soils to be present, although currently not recorded in shallow soils.	Attack of buried concrete.	Damage to concrete and reduction in strength.	2	4	8	Classify concrete in accordance with BRE SD1 and design concrete accordingly.
Shallow and potentially variable groundwater.	Monitoring during the ground investigation has recorded shallow groundwater at potentially variable depths.	Construction staff, vehicles and plant operators.	Difficulty with excavation.	3	4	12	Contractor to appoint competent Temporary Works Designer to design temporary works, in accordance with BS 5975:2008+A1:2011. Temporary Works Designer to consider in their analysis the impact of, and requirements for, de-watering of excavations.
			Limit state failure, excessive deformation, trafficking of site plant, inability to place and compact fill.	3	4	12	



Phase 2 Ground Investigation Report

Hazard	Comments	Who is at risk	Consequence	Risk before mitigation			Actions required
		Slopes and Retaining walls.	Serviceability issues.	3	3	9	The shallow groundwater is to be taken into account during geotechnical design of the temporary and permanent works.
Running sands and / or loose Made Ground, leading to difficulty with excavation and collapse of side walls.	The ground investigation has indicated that there is a potential for loose soils to be present at the site, particularly in the superficial deposits.	Construction staff, vehicles and plant operators.	Ground failure, instability of plant and machinery.	3	4	12	All completed trial pits were noted to be stable. Foundation options should be reviewed to ensure minimal excavation (e.g. piles).
			Risk of collapse of excavation.	3	4	12	Contractor to appoint competent Temporary Works Designer to design temporary works, in accordance with BS 5975:2008+A1:2011. Temporary Works Design to include recommendations for inspection of excavations. No person entry to unsupported excavations.
Slope stability issues – General Slopes.	The majority of the site gently slopes down to the south, with steeper gradients in the south of the site.	Residential Dwellings.	Serviceability issues.	3	4	12	Safe slope angles and the impact of any cut and fill works should be assessed during design.
		Roads and Pavements.	Serviceability issues.	4	4	16	Safe slope angles and the impact of any cut and fill works should be assessed during design. Access roads into the site should be designed to accommodate the steeper gradients in those areas.
Slope stability issues – retaining walls.	The majority of the site gently slopes down to the south, with steeper gradients in the south of the site. Retaining structures may potentially be required in the south of the site.	Residential Dwellings.	Serviceability issues.	3	4	12	Design of the retaining to be undertaken in accordance with EC7. Adequate drainage to be designed behind the structure, or for water seepage through the face of the wall. Lateral earth pressure parameters to be characterised during investigation and design. Engineered fill requirements to be defined at outline design stage.
		Pavement construction and long-term durability highways and external areas.	Serviceability issues.	3	4	12	
		Gardens.	Serviceability issues.	3	3	9	
Earthworks – Settlement (due to placement of fill on soft / loose ground).	The ground conditions at the site include River Terrace Deposits and London Clay.	Residential Dwellings.	Foundation bearing capacity failure, settlement	3	4	12	Design foundations to found within natural ground.
			Floor slab failure.	3	3	9	Design floor slab as suspended if significant fill placed, in accordance with NHBC guidelines.



Phase 2 Ground Investigation Report

Hazard	Comments	Who is at risk	Consequence	Risk before mitigation			Actions required
		Roads and Pavements.	Settlement (total and differential).	3	4	12	Proof roll formation before commencing earthworks. Remove soft spots and replace with appropriate granular fill. Design roads and pavements using suitable geotechnical parameters and increase the sub-base and use geo-grids as appropriate.
		Construction staff, vehicles and plant operators.	Trafficking of the site in temporary conditions. Overturning of plant during construction.	3	4	12	Where soft spots encountered, over-excavate and replace with suitable fill. Design working platform to suit the ground conditions. Outline design of working platform to include geo-grid if necessary. Site inspection and watching brief by Contractor to review working platform frequently and regularly.
Earthworks – poor bearing capacity and / or settlement of new fill.	The ground conditions at the site include River Terrace Deposits and London clay.	Residential Dwellings.	Foundation bearing capacity failure, settlement (total and differential).	3	4	12	Design foundations to found within the River Terrace Deposits/London Clay Formation.
			Floor slab failure.	3	3	9	Design floor slab as suspended if significant fill placed, in accordance with NHBC guidelines.
		Roads and Pavements.	Settlement (total and differential).	3	4	12	Minimum engineering performance to be defined in an Earthworks Specification. Earthworks to be designed in accordance with1) Manual of Contract Documents for Highway Works (MCHW), Volume 1;2) Specification for Highway Works (SHW) Series 600;3) 6031:2009, Code of practice for earthworks; and4) BS 8000-1, workmanship on building sites. Site testing to be undertaken to confirm the works are in accordance with the design. A suitable watching brief and independent verification.
		Construction staff, vehicles and plant operators.	Trafficking of the site in temporary conditions. Overturning of plant during construction.	3	4	12	

Whilst the probability and impact of the hazard occurring can be reduced to a minimum by geotechnical design, the impact cannot be reduced below very low. The risk register will need to be up-dated, as necessary, to reflect design, additional information, data and experience as it is gained through the construction process.

Impacts of the design with regard to health and Safety considerations will need to be included by the designer at design stage.



Appendix G Plausible source-pathway-receptor contaminant linkages

Summary of potential contaminant linkages

Table 12-4: Source-pathway-receptor contaminant linkages lists the plausible contaminant linkages which have been identified. These are considered as potentially unacceptable risks in line with guidelines published in LCRM (2023) where the risk is moderate or above, and additional risk assessment is required to resolve these linkages.

Source – Pathway – Receptor Linkages have been assessed in general accordance with guidance in CIRIA Report C552 (Rudland *et al* 2001) as modified to reflect changes made in Table A4.5 of NHBC/EA R&D66 (2008), to add a ‘no linkage’ category, to remove the ambiguous term “low/moderate risk”, and to adopt “Extremely low risk” for the lowest risk category in order to differentiate it from the other ‘very low’ categories that are associated with higher probability and/or consequence. (See Table 12-3: Consequence versus probability assessment).

It should be noted that whilst the risk assessment process undertaken in this report may identify potential risks to site demolition and redevelopment workers, consideration of occupational health and safety issues is beyond the scope of this report and need to be considered separately in the Construction Phase Health and Safety Plan.

Table 12-3: Consequence versus probability assessment

		Consequence			
		Severe	Medium	Mild	Minor
Probability	High likelihood	Very high risk	High risk	Moderate risk	Low risk
	Likely	High risk	Moderate risk	Low risk	Low risk
	Low likelihood	Moderate risk	Low risk	Low risk	Very low risk
	Unlikely	Low risk	Very low risk	Very low risk	Extremely low risk
	No linkage	No risk			



Phase 2 Ground Investigation Report

Table 12-4: Source-pathway-receptor contaminant linkages

Source	Possible pathway(s)	Receptor	Probability	Consequence	Risk level	Comments
Pesticides and fertilisers associated with arable farming practices (S1).	Soil ingestion, direct dermal contact, soil derived dust inhalation	Site users	Low likelihood	Medium	Low	Pesticides were tested for in four samples taken from site. All were below the limit of detection.
	Inhalation of fugitive dusts	Neighbours	Low	Medium	Low	The risk of significant generation of dust is likely only during site development process and can therefore be controlled using good construction environmental management practices
	Leaching from unsaturated soils	Groundwater	Unlikely	Medium	Very low	Made ground was not encountered during the ground investigation. Groundwater was not encountered during the investigation. Soil leachate and groundwater was not tested during this investigation.
	Surface water run-off	Aquatic ecosystem in adjacent surface water	Unlikely	Medium	Very low	
	Plant root uptake	Landscape planting	Unlikely	Minor	Extremely low	Whilst root uptake is possible in gardens and areas of Public Open Space (POS) the concentrations of pesticides in the samples tested are not elevated with regard to plant growth.
Fuel oils and hydraulic oils related to arable farming practices (S2).	Inhalation of fugitive dust	Site users	Unlikely	Medium	Low	TPH level 2 testing was undertaken which showed there were no contaminants exceeding the GAC.
		Construction workers	Unlikely	Medium	Low	The risk of significant generation of dust is likely only during site development process and can therefore be controlled. Suppression should be included in control measures.
		Neighbours	Unlikely	Medium	Low	



Phase 2 Ground Investigation Report

Source	Possible pathway(s)	Receptor	Probability	Consequence	Risk level	Comments
	Direct contact and permeation of water pipes	Water supply pipes	Unlikely	Medium	Low	VOCs and petroleum hydrocarbon concentrations were not detected above the required thresholds. Therefore the SPR linkage is broken.
	Vapour intrusion into buildings	Site users	Unlikely	Medium	Low	VOCs and petroleum hydrocarbon concentrations were not detected above the required thresholds. Therefore the SPR linkage is broken.



Appendix H Climate change considerations for CSM

Table 12-5 summarises the considerations that have been made in relation the possible implications of predicted climate change. These considerations have been made with reference to prevailing guidance on climate change and land contamination (SoBRA (2022), CL:AIRE)2022), Environment Agency (2010)), and climate change information published by the Met Office and the Environment Agency.

Table 12-5: Possible CSM considerations related to climate change

Climate change type	Potential climate change induced effect	Possible considerations on CSM
Increase in frequency and severity of extreme rainfall events	Temporary increasing in groundwater levels	It is possible that future groundwater level rise could be sufficient to impact identified contaminant linkages. The risk of groundwater flooding is increased but is unlikely to result in a groundwater flooding given the current depth to groundwater.
	Increased surface run-off	Site is covered in agricultural land. Surface water run-off will impact drainage network (in terms of volume of water) but is not expected to impact underlying ground conditions.
	Land-based erosion	Unlikely.
	River flooding	Unlikely risk as site is not currently in a flood risk zone.
Increase in frequency and severity of extreme cold and hot weather events	Soil freezing	Could cause failure of surface water drainage network (requiring repair) due to freeze/thaw action but not evident that this would cause a significant change to identified contaminant linkages.
	Soil desiccation/shrinkage	Relatively cohesive nature of superficial deposits and London clay formation suggests a risk from shrinkage-related subsidence.
	Land fires	Not relevant to current nature and location of site.
	Temporary drop in water (GW and/or SW) levels due to increased water abstraction demand	Underlying shallow aquifer does not have any licenced abstractions registered within 1km of the site.
	Temporary drop in water levels (GW and/or SW) due to lower rainfall.	Water levels in the shallow aquifer may fall further in drier summer months. Groundwater has not been tested on site, however this could impact the groundwater in the unlikely occurrence of contamination.
Long-term increase in rainfall	Increase in groundwater levels	No predicted changes in water levels are expected within the London Clay Formation but there is a potential for increased levels in the RTD.



Phase 2 Ground Investigation Report

Climate change type	Potential climate change induced effect	Possible considerations on CSM
Long-term decrease in rainfall	Decrease in groundwater levels	See comment above for temporary decrease in groundwater levels above. Whilst it is expected that there will be an increase in winter rainfall it is also expected that there will be a reduction in summer rainfall such that there will be a long-term increase in the expected seasonal fluctuation in shallow groundwater depth.
Long-term change in seasonal temperatures	Change in soil temperature	Worst-case (RCP8.5) prediction for average summer temperatures in 2060-2080 in this area is 6-7 degrees Celsius. Soil temperature at depth below the site (considering the surface cover of buildings and concrete hardstanding) is not expected to rise by this amount and may see a much smaller rise in average temperature as a result of seasonal variation in temperature. A small increase in average soil temperature is not expected to have a significant effect on contaminant fate and transport



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