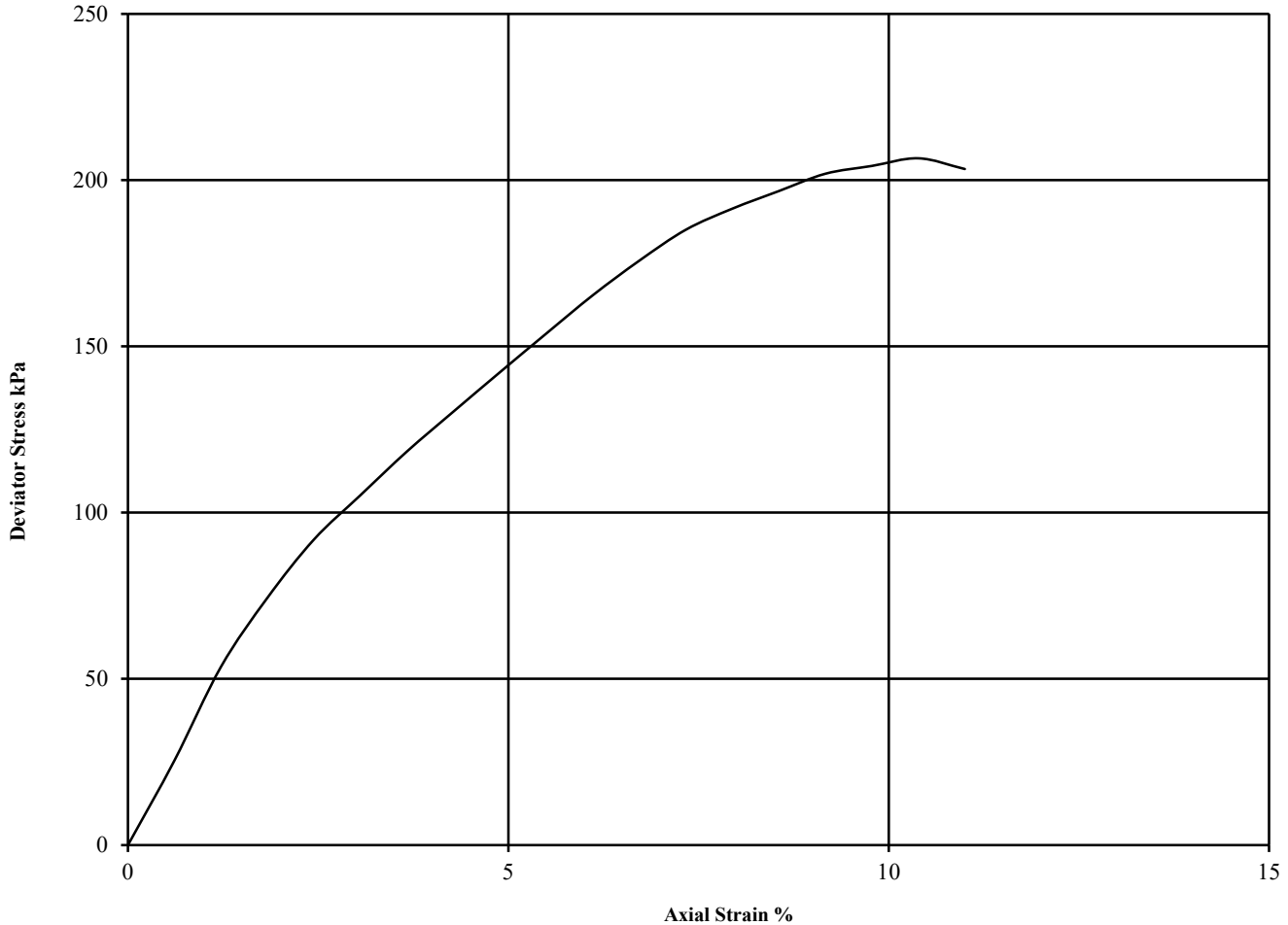
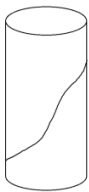


UNCONSOLIDATED UNDRAINED TRIAXIAL TEST

BS 1377 - Part 2 : 2022 : Clause 28 in accordance with BS EN ISO 17892 - 8 : 2018

Hole Number: BH24-02 Top Depth (m): 3.00
 Sample Number 12 Base Depth (m): 3.45
 Sample Type U



Diameter (mm):		102		Height (mm):		167		Test:	UU Single Stage	Remarks:
Specimen	Water Content (%)	Bulk Density (Mg/m3)	Dry Density (Mg/m3)	Cell Pressure (kPa)	Corr. Max. Deviator Stress (kPa)	Shear Strength Cu (kPa)	Failure Strain (%)		Undisturbed Sample Sample taken from top of tube Rate of strain = 1.1 %/min See summary of soil descriptions	
1	23.9	2.10	1.69	120	207	103	9.8	Brittle		



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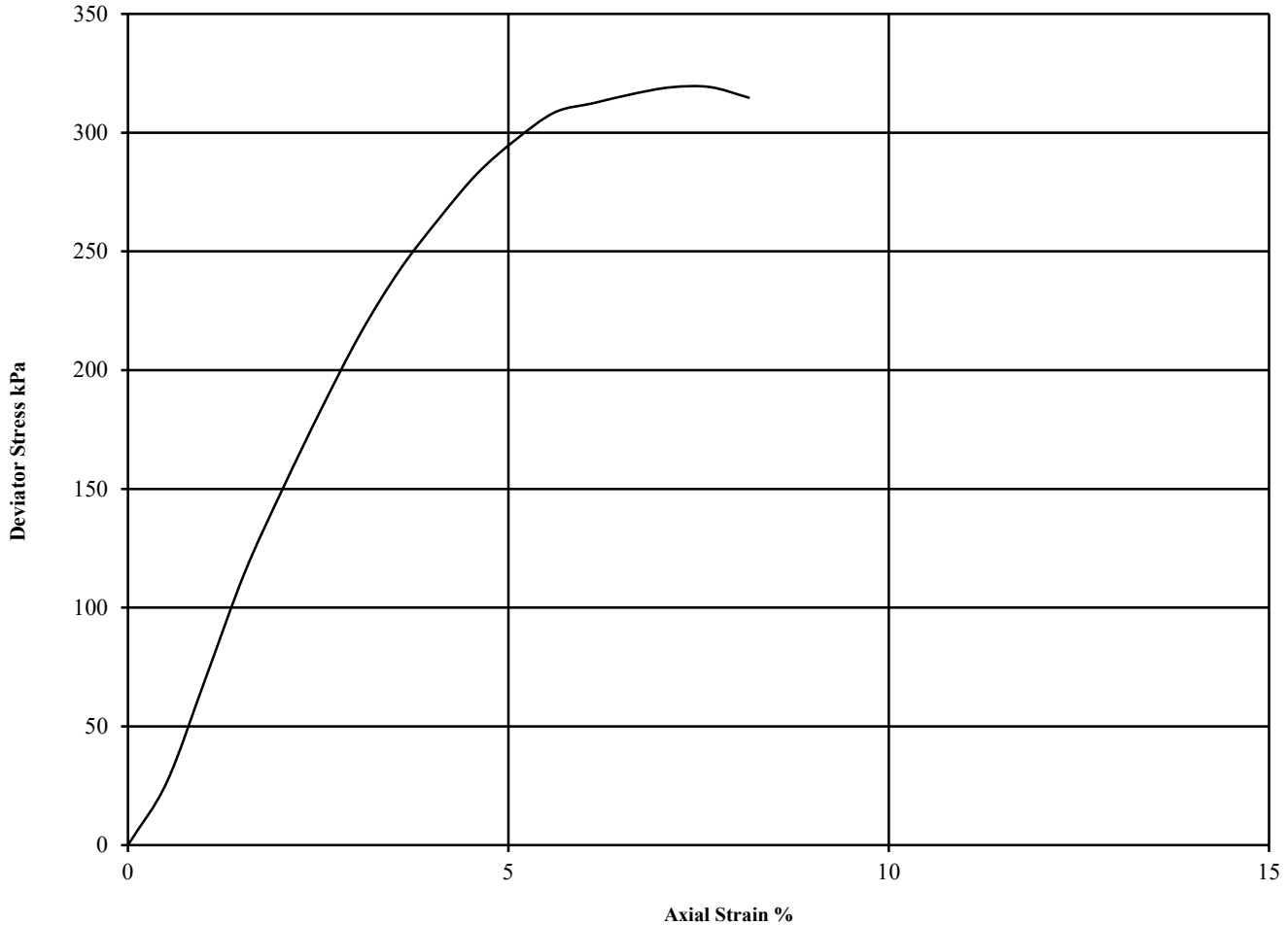
Client Ref:

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UNCONSOLIDATED UNDRAINED TRIAXIAL TEST

BS 1377 - Part 2 : 2022 : Clause 28 in accordance with BS EN ISO 17892 - 8 : 2018

Hole Number: **BH24-02** Top Depth (m): **4.50**
 Sample Number **16** Base Depth (m): **4.95**
 Sample Type **U**



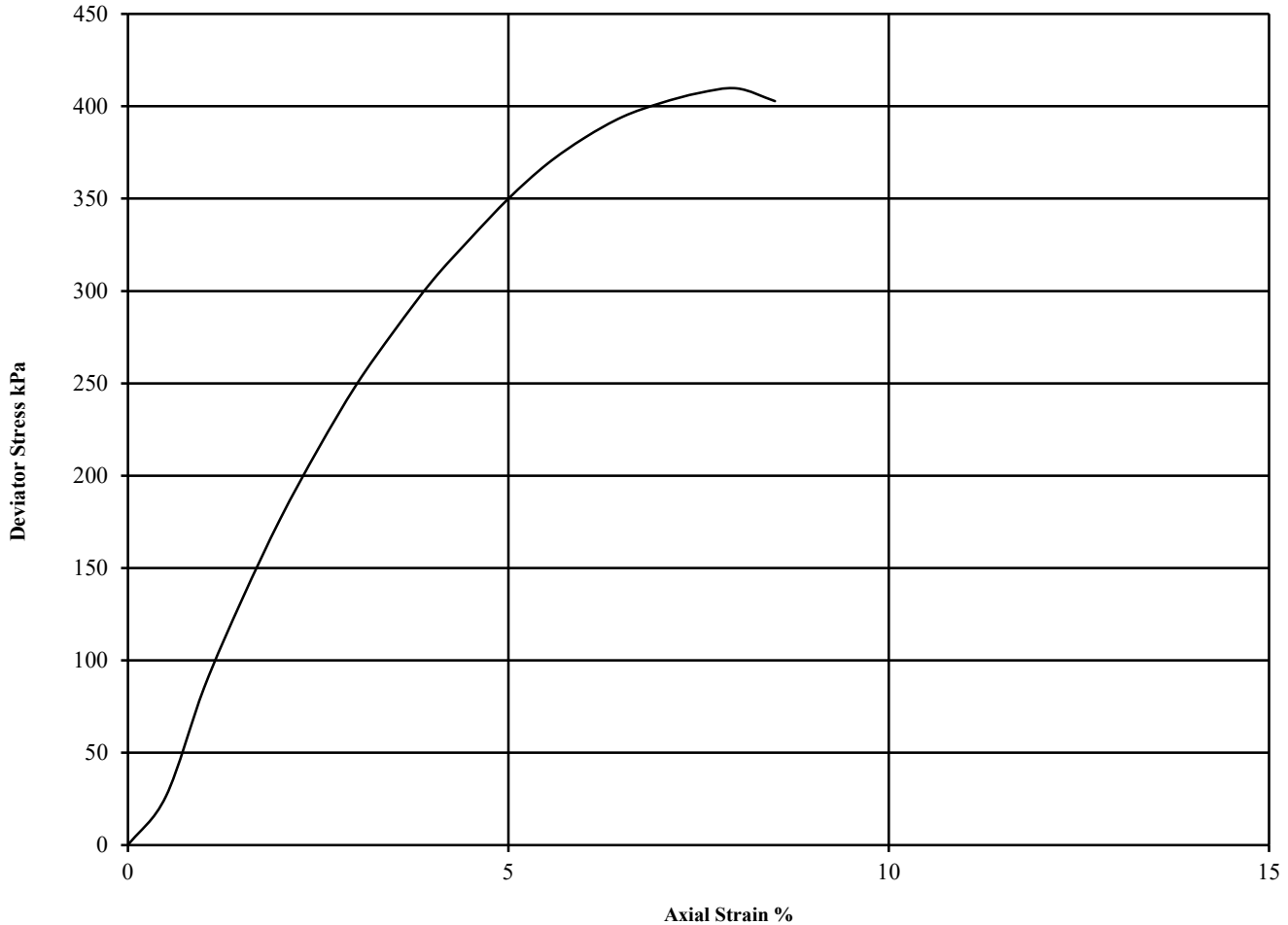
Diameter (mm):		Height (mm):			Test:	UU Single Stage		Remarks:
Specimen	Water Content (%)	Bulk Density (Mg/m ³)	Dry Density (Mg/m ³)	Cell Pressure (kPa)	Corr. Max. Deviator Stress (kPa)	Shear Strength Cu (kPa)	Failure Strain (%)	Undisturbed Sample Sample taken from top of tube Rate of strain = 0.9 %/min See summary of soil descriptions
1	24.6	2.06	1.65	180	319	160	7.1	

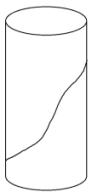
 	Thorney Lane Phase 1 Due Diligence		Contract No:
			PSL24/7024
			Client Ref:
			24/3980

UNCONSOLIDATED UNDRAINED TRIAXIAL TEST

BS 1377 - Part 2 : 2022 : Clause 28 in accordance with BS EN ISO 17892 - 8 : 2018

Hole Number: BH24-02 Top Depth (m): 6.00
 Sample Number: 20 Base Depth (m): 6.45
 Sample Type: U



Diameter (mm):		102		Height (mm):		204		Test:	UU Single Stage	Remarks:
Specimen	Water Content (%)	Bulk Density (Mg/m3)	Dry Density (Mg/m3)	Cell Pressure (kPa)	Corr. Max. Deviator Stress (kPa)	Shear Strength Cu (kPa)	Failure Strain (%)		Undisturbed Sample Sample taken from top of tube Rate of strain = 0.9 %/min See summary of soil descriptions	
1	24.1	2.11	1.70	230	410	205	7.5	Brittle		



Thorney Lane Phase 1 Due Diligence

Contract No:

PSL24/7024

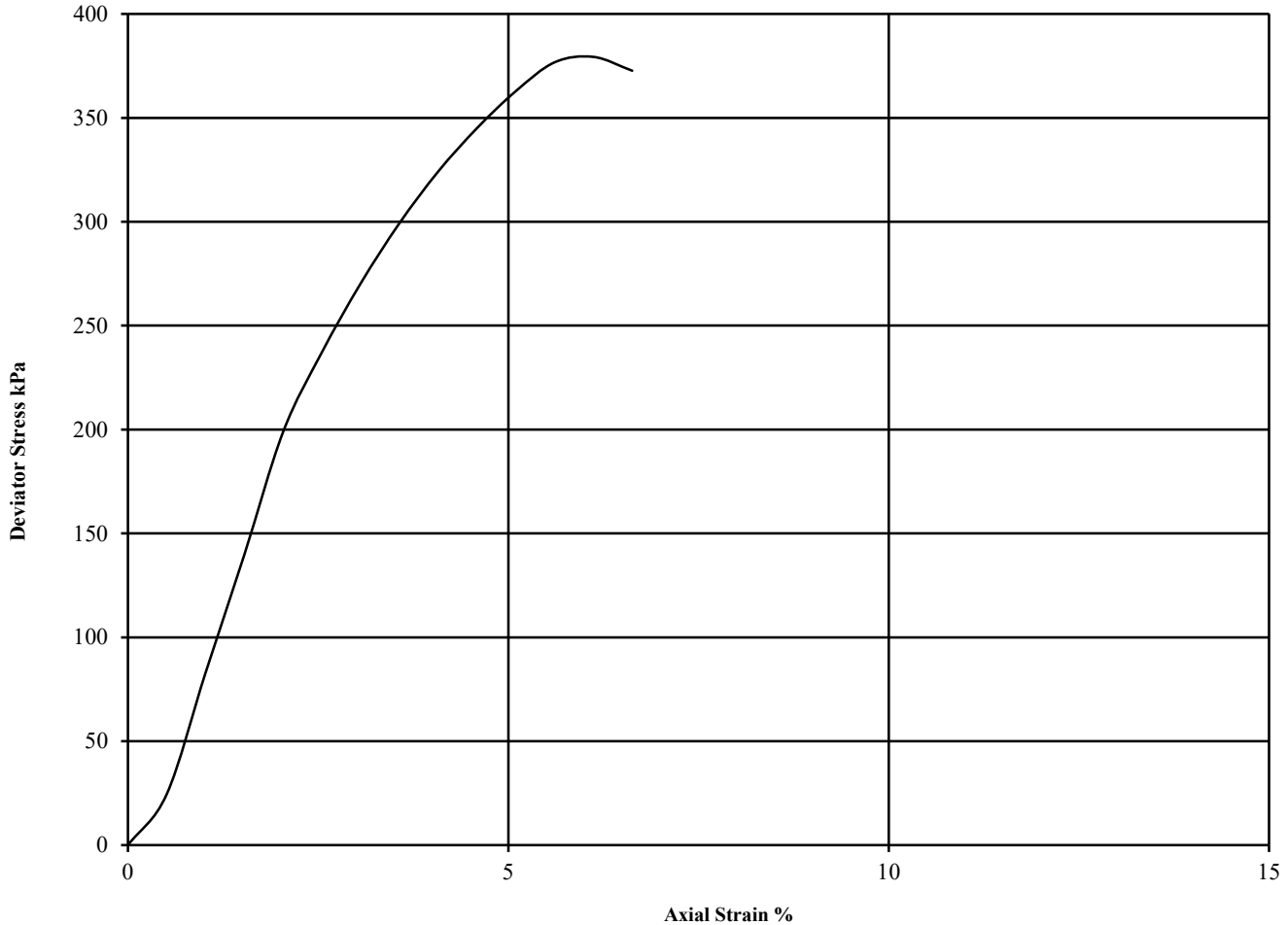
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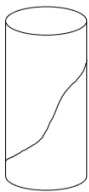
24/3980

UNCONSOLIDATED UNDRAINED TRIAXIAL TEST

BS 1377 - Part 2 : 2022 : Clause 28 in accordance with BS EN ISO 17892 - 8 : 2018

Hole Number: **BH24-02** Top Depth (m): **7.50**
 Sample Number: **24** Base Depth (m): **7.95**
 Sample Type: **U**



Diameter (mm):		104		Height (mm):		204		Test:	UU Single Stage	Remarks:
Specimen	Water Content (%)	Bulk Density (Mg/m3)	Dry Density (Mg/m3)	Cell Pressure (kPa)	Corr. Max. Deviator Stress (kPa)	Shear Strength Cu (kPa)	Failure Strain (%)		Undisturbed Sample Sample taken from top of tube Rate of strain = 0.9 %/min See summary of soil descriptions	
1	24.8	2.08	1.67	270	379	190	5.6	Brittle		



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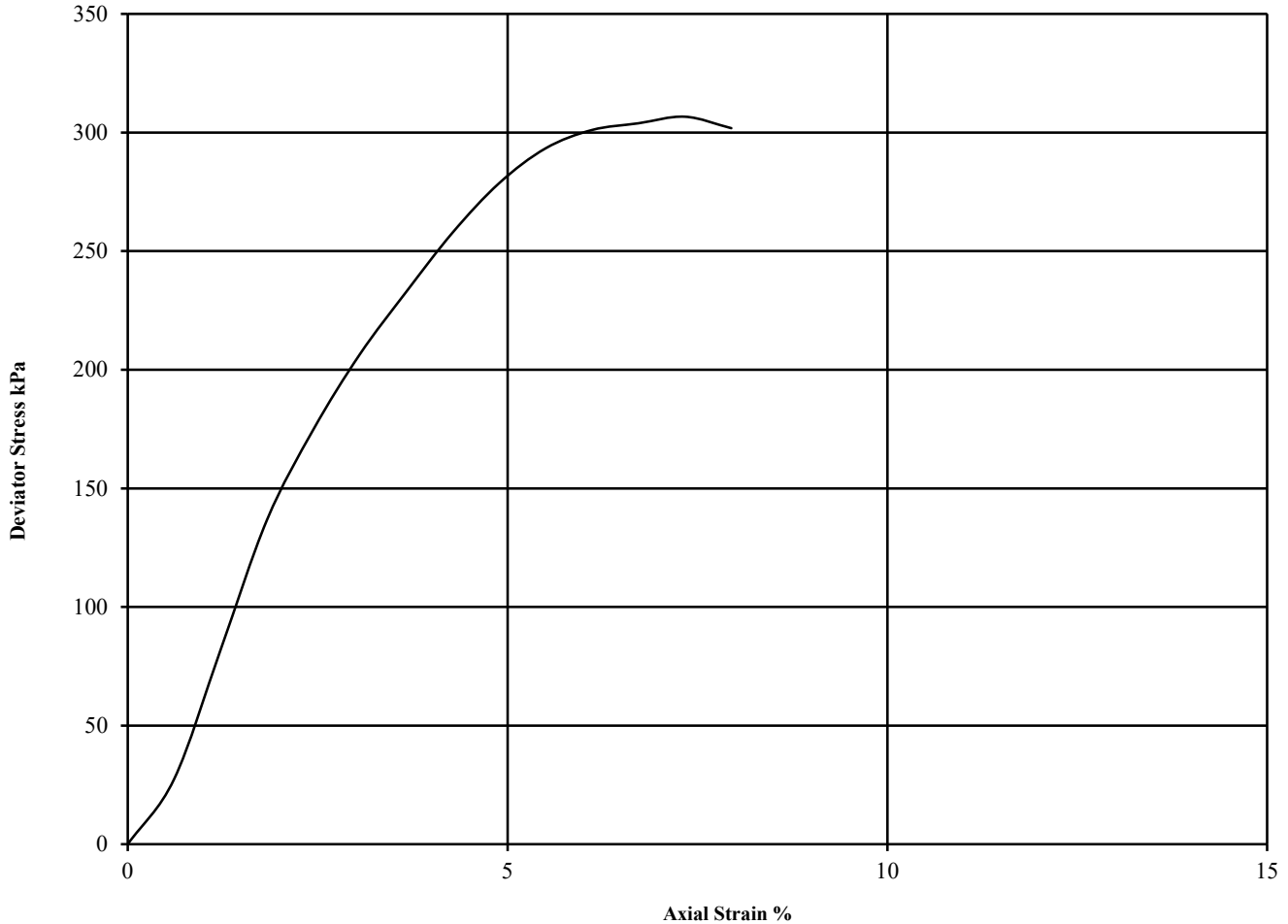
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UNCONSOLIDATED UNDRAINED TRIAXIAL TEST

BS 1377 - Part 2 : 2022 : Clause 28 in accordance with BS EN ISO 17892 - 8 : 2018

Hole Number:	BH24-02	Top Depth (m):	9.00
Sample Number	28	Base Depth (m):	9.45
Sample Type	U		



Diameter (mm):		102		Height (mm):		167		Test:	UU Single Stage	Remarks:
Specimen	Water Content (%)	Bulk Density (Mg/m3)	Dry Density (Mg/m3)	Cell Pressure (kPa)	Corr. Max. Deviator Stress (kPa)	Shear Strength Cu (kPa)	Failure Strain (%)		Undisturbed Sample Sample taken from top of tube Rate of strain = 1.1 %/min See summary of soil descriptions	
1	25.8	2.11	1.67	310	307	153	6.7			Brittle



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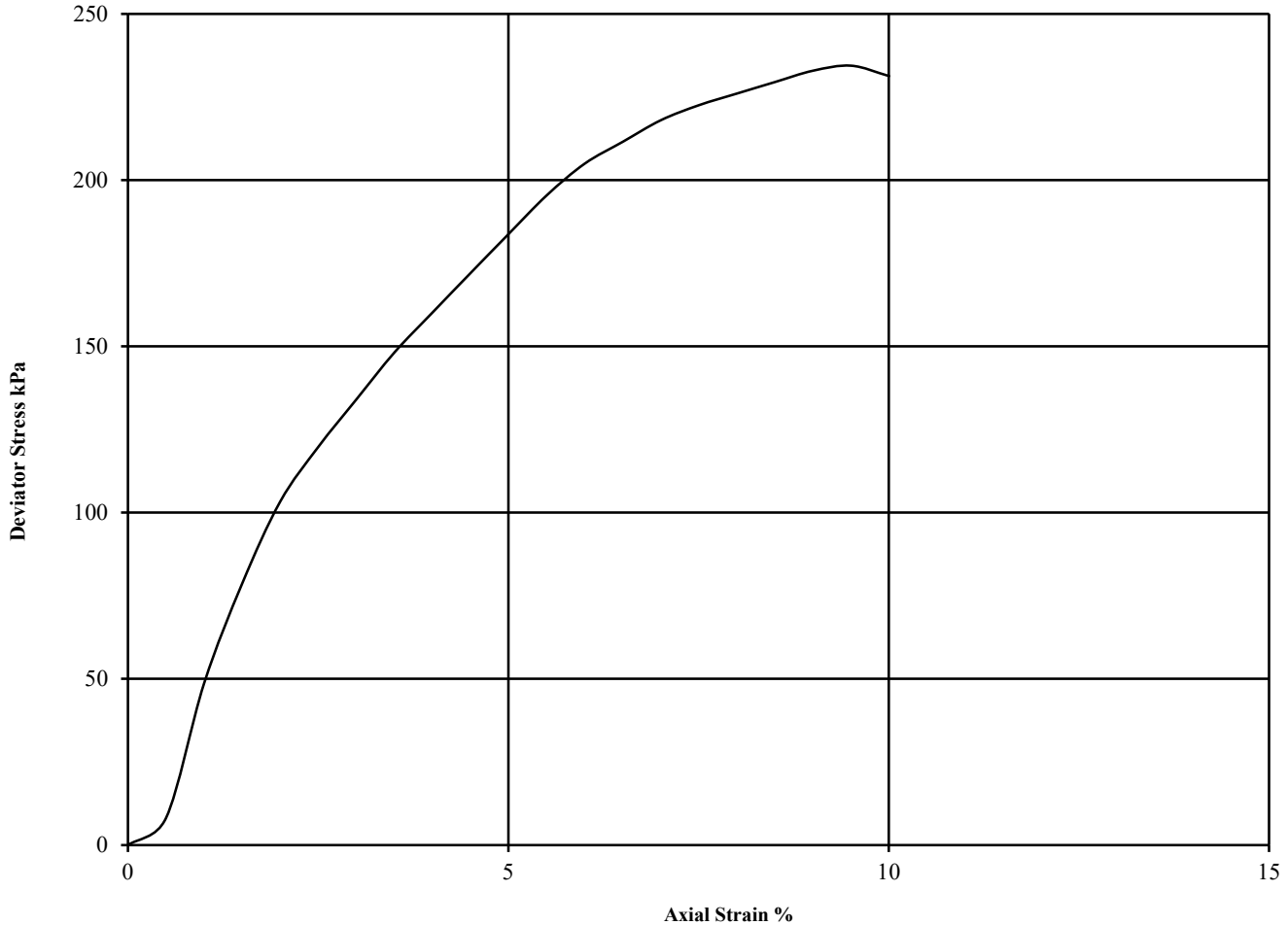
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UNCONSOLIDATED UNDRAINED TRIAXIAL TEST

BS 1377 - Part 2 : 2022 : Clause 28 in accordance with BS EN ISO 17892 - 8 : 2018

Hole Number:	BH24-02	Top Depth (m):	10.50
Sample Number	32	Base Depth (m):	10.95
Sample Type	U		



Diameter (mm):		Height (mm):			Test:	UU Single Stage		Remarks:
Specimen	Water Content (%)	Bulk Density (Mg/m3)	Dry Density (Mg/m3)	Cell Pressure (kPa)	Corr. Max. Deviator Stress (kPa)	Shear Strength Cu (kPa)	Failure Strain (%)	Undisturbed Sample Sample taken from top of tube Rate of strain = 0.9 %/min See summary of soil descriptions
1	25.5	2.13	1.69	350	234	117	9.0	
								Brittle



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PSL24/7024

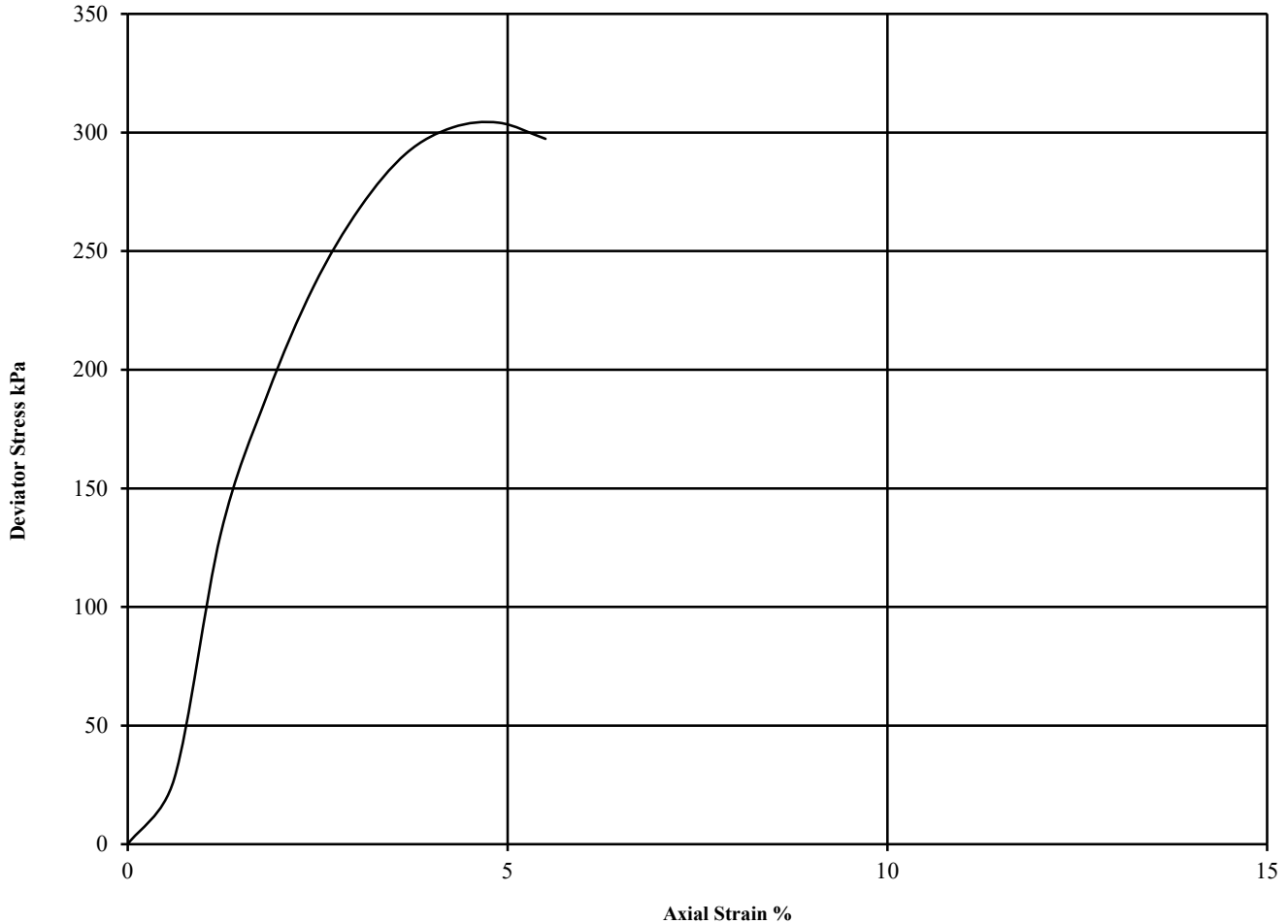
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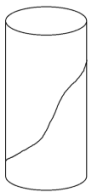
24/3980

UNCONSOLIDATED UNDRAINED TRIAXIAL TEST

BS 1377 - Part 2 : 2022 : Clause 28 in accordance with BS EN ISO 17892 - 8 : 2018

Hole Number:	BH24-02	Top Depth (m):	12.00
Sample Number	36	Base Depth (m):	12.45
Sample Type	U		



Diameter (mm):		102		Height (mm):		167		Test:	UU Single Stage	Remarks:
Specimen	Water Content (%)	Bulk Density (Mg/m3)	Dry Density (Mg/m3)	Cell Pressure (kPa)	Corr. Max. Deviator Stress (kPa)	Shear Strength Cu (kPa)	Failure Strain (%)		Undisturbed Sample Sample taken from top of tube Rate of strain = 1.1 %/min See summary of soil descriptions	
1	29.0	2.13	1.65	390	304	152	4.3			Brittle



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Contract No:

PSL24/7024

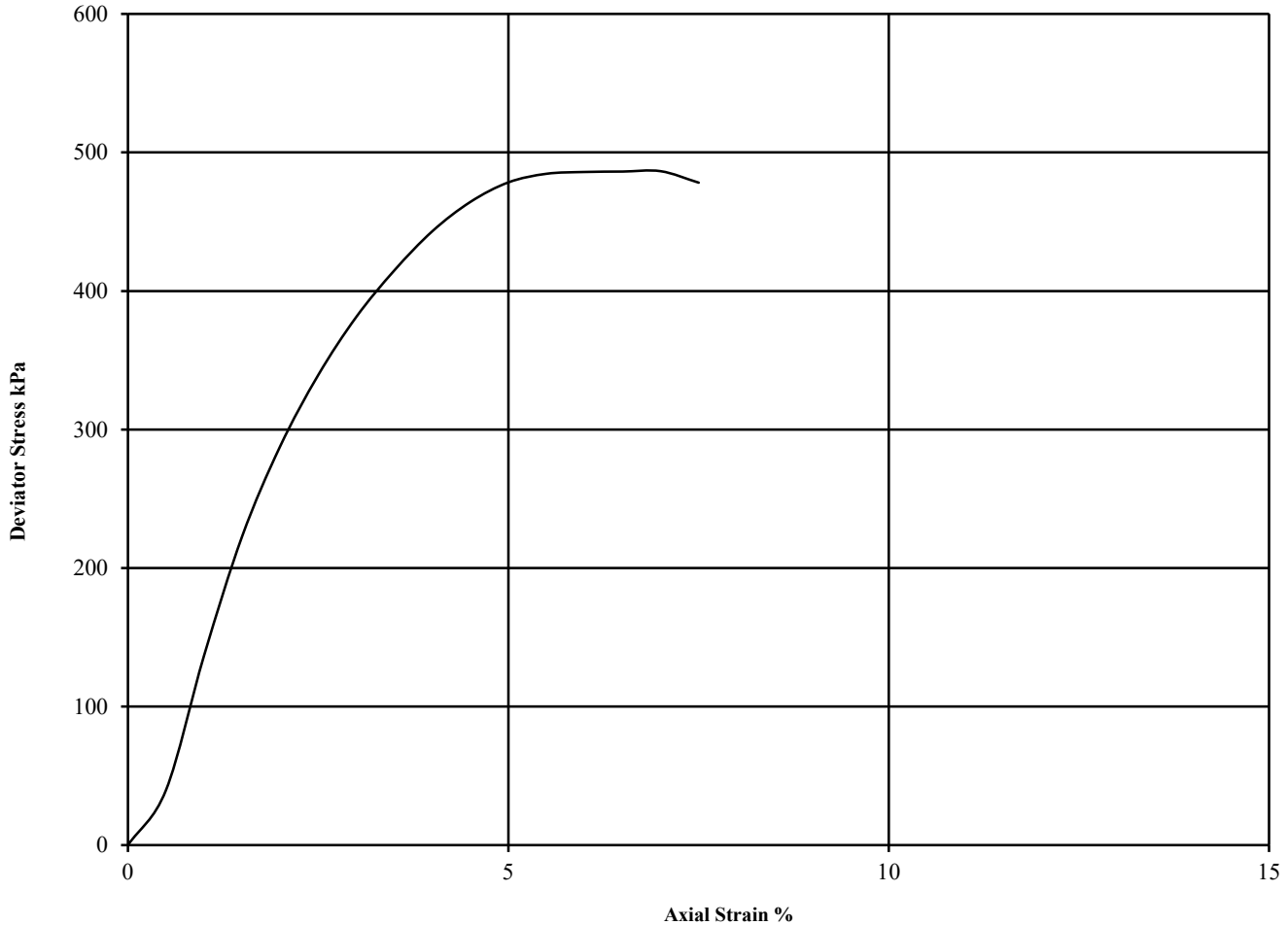
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UNCONSOLIDATED UNDRAINED TRIAXIAL TEST

BS 1377 - Part 2 : 2022 : Clause 28 in accordance with BS EN ISO 17892 - 8 : 2018

Hole Number:	BH24-02	Top Depth (m):	13.50
Sample Number	40	Base Depth (m):	13.95
Sample Type	U		



Diameter (mm):		102		Height (mm):		204		Test:	UU Single Stage	Remarks:
Specimen	Water Content (%)	Bulk Density (Mg/m3)	Dry Density (Mg/m3)	Cell Pressure (kPa)	Corr. Max. Deviator Stress (kPa)	Shear Strength Cu (kPa)	Failure Strain (%)		Undisturbed Sample Sample taken from top of tube Rate of strain = 0.9 %/min See summary of soil descriptions	
1	27.3	2.13	1.67	430	486	243	6.5			Brittle



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UNCONSOLIDATED UNDRAINED TRIAXIAL TEST

BS 1377 - Part 2 : 2022 : Clause 28 in accordance with BS EN ISO 17892 - 8 : 2018

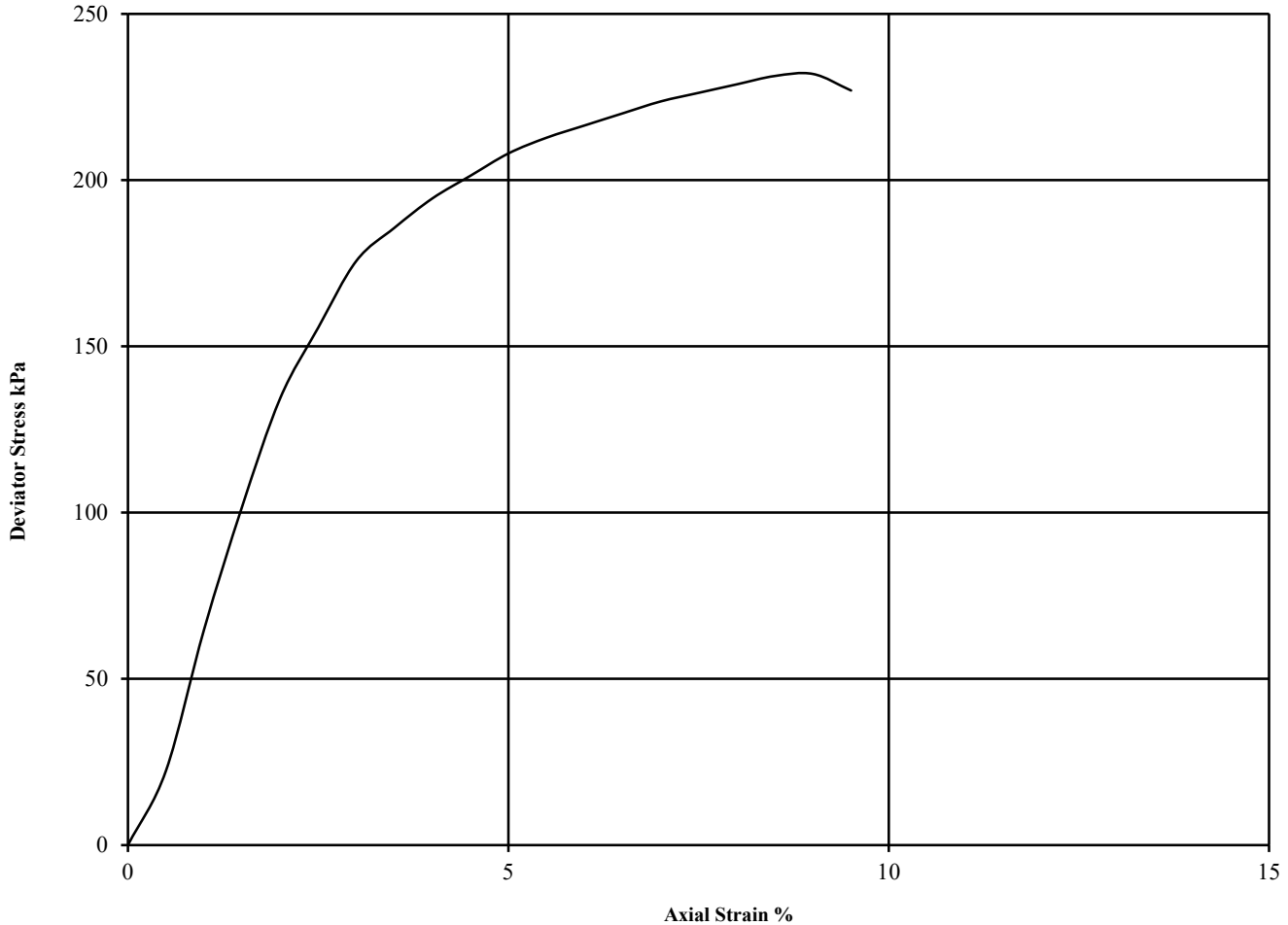
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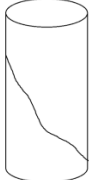
Top Depth (m): 2.50

Sample Number 9

Base Depth (m): 2.95

Sample Type U



Diameter (mm):		Height (mm):			Test:	UU Single Stage		Remarks:
Specimen	Water Content (%)	Bulk Density (Mg/m3)	Dry Density (Mg/m3)	Cell Pressure (kPa)	Corr. Max. Deviator Stress (kPa)	Shear Strength Cu (kPa)	Failure Strain (%)	 Undisturbed Sample Sample taken from top of tube Rate of strain = 0.9 %/min See summary of soil descriptions
1	26.8	2.11	1.66	100	232	116	8.5	



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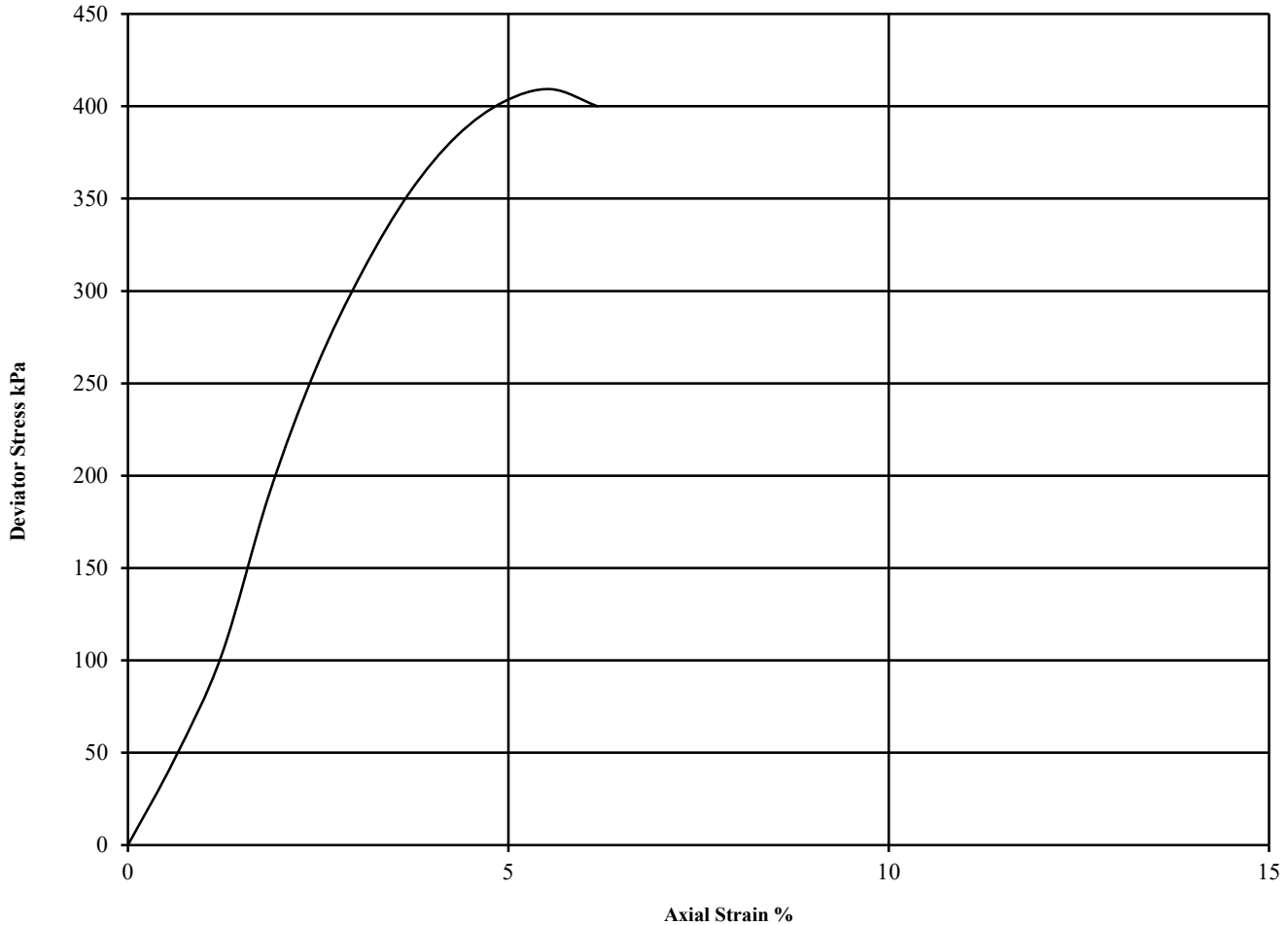
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UNCONSOLIDATED UNDRAINED TRIAXIAL TEST

BS 1377 - Part 2 : 2022 : Clause 28 in accordance with BS EN ISO 17892 - 8 : 2018

Hole Number:	BH24-03	Top Depth (m):	4.50
Sample Number	15	Base Depth (m):	4.95
Sample Type	U		



Diameter (mm):		103			Height (mm):		167		Test:	UU Single Stage		Remarks:
Specimen	Water Content (%)	Bulk Density (Mg/m3)	Dry Density (Mg/m3)	Cell Pressure (kPa)	Corr. Max. Deviator Stress (kPa)	Shear Strength Cu (kPa)	Failure Strain (%)		Undisturbed Sample Sample taken from top of tube Rate of strain = 1.1 %/min See summary of soil descriptions			
1	21.6	2.09	1.72	180	409	205	4.9	Brittle				



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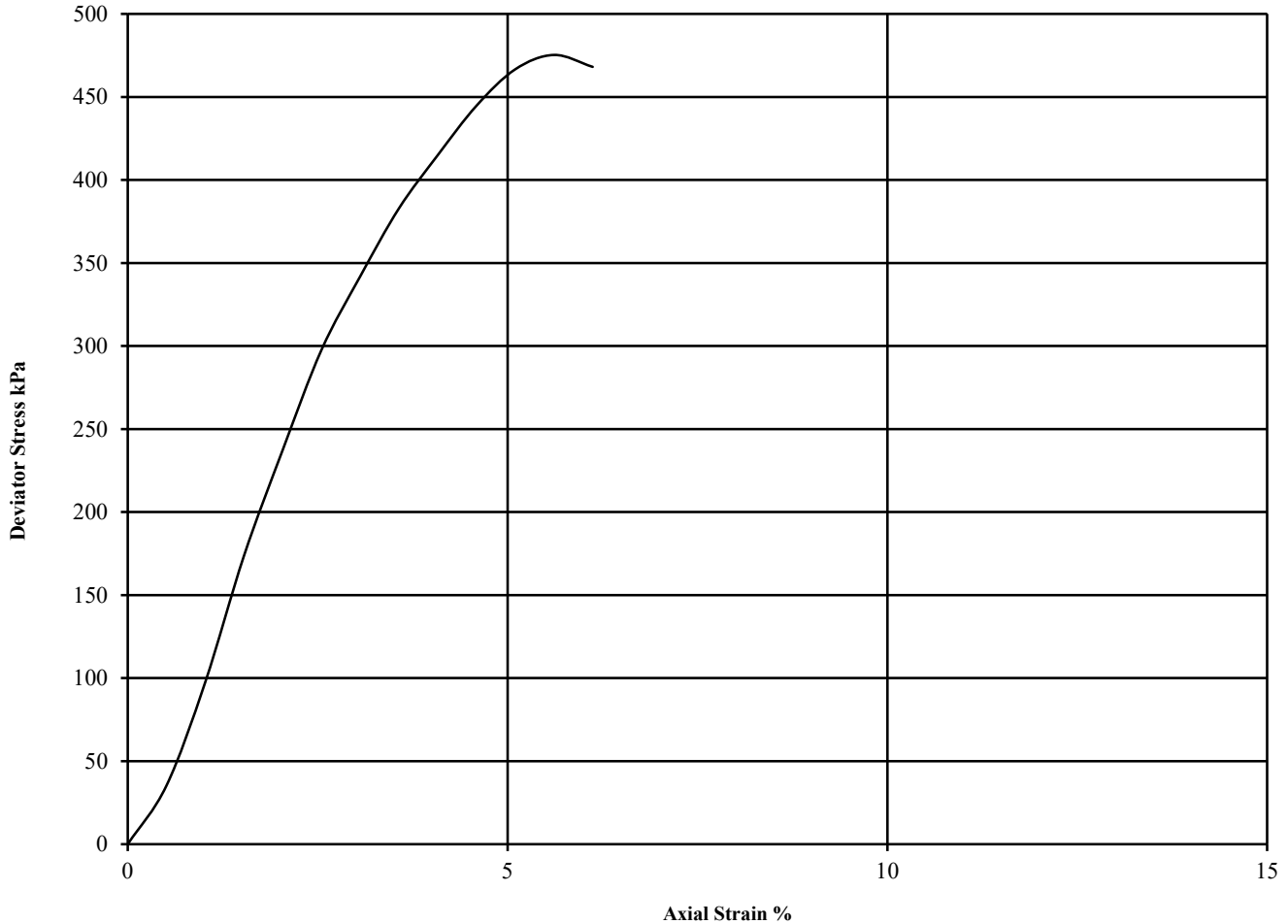
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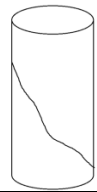
24/3980

UNCONSOLIDATED UNDRAINED TRIAXIAL TEST

BS 1377 - Part 2 : 2022 : Clause 28 in accordance with BS EN ISO 17892 - 8 : 2018

Hole Number:	BH24-03	Top Depth (m):	6.00
Sample Number	18	Base Depth (m):	6.45
Sample Type	U		



Diameter (mm):		104		Height (mm):		204		Test:	UU Single Stage	Remarks:
Specimen	Water Content (%)	Bulk Density (Mg/m3)	Dry Density (Mg/m3)	Cell Pressure (kPa)	Corr. Max. Deviator Stress (kPa)	Shear Strength Cu (kPa)	Failure Strain (%)		Brittle	Undisturbed Sample Sample taken from top of tube Rate of strain = 0.9 %/min See summary of soil descriptions
1	24.2	2.09	1.68	230	475	238	5.1			



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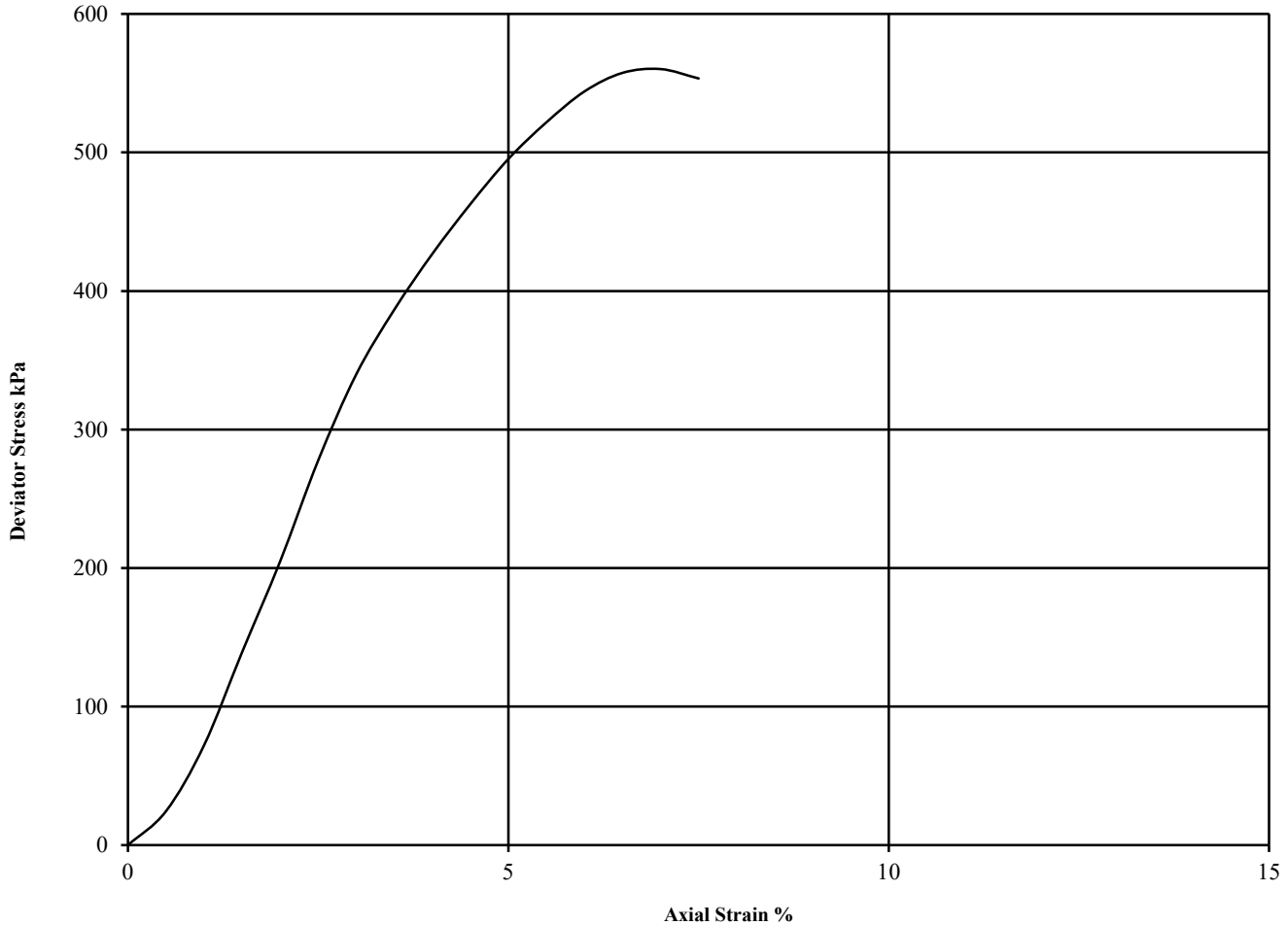
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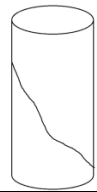
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UNCONSOLIDATED UNDRAINED TRIAXIAL TEST

BS 1377 - Part 2 : 2022 : Clause 28 in accordance with BS EN ISO 17892 - 8 : 2018

Hole Number: **BH24-03** Top Depth (m): **7.50**
 Sample Number **22** Base Depth (m): **7.95**
 Sample Type **U**



Diameter (mm):		102		Height (mm):		204		Test:	UU Single Stage	Remarks:
Specimen	Water Content (%)	Bulk Density (Mg/m3)	Dry Density (Mg/m3)	Cell Pressure (kPa)	Corr. Max. Deviator Stress (kPa)	Shear Strength Cu (kPa)	Failure Strain (%)		Undisturbed Sample Sample taken from top of tube Rate of strain = 0.9 %/min See summary of soil descriptions	
1	22.1	2.14	1.75	270	560	280	6.5	Brittle		



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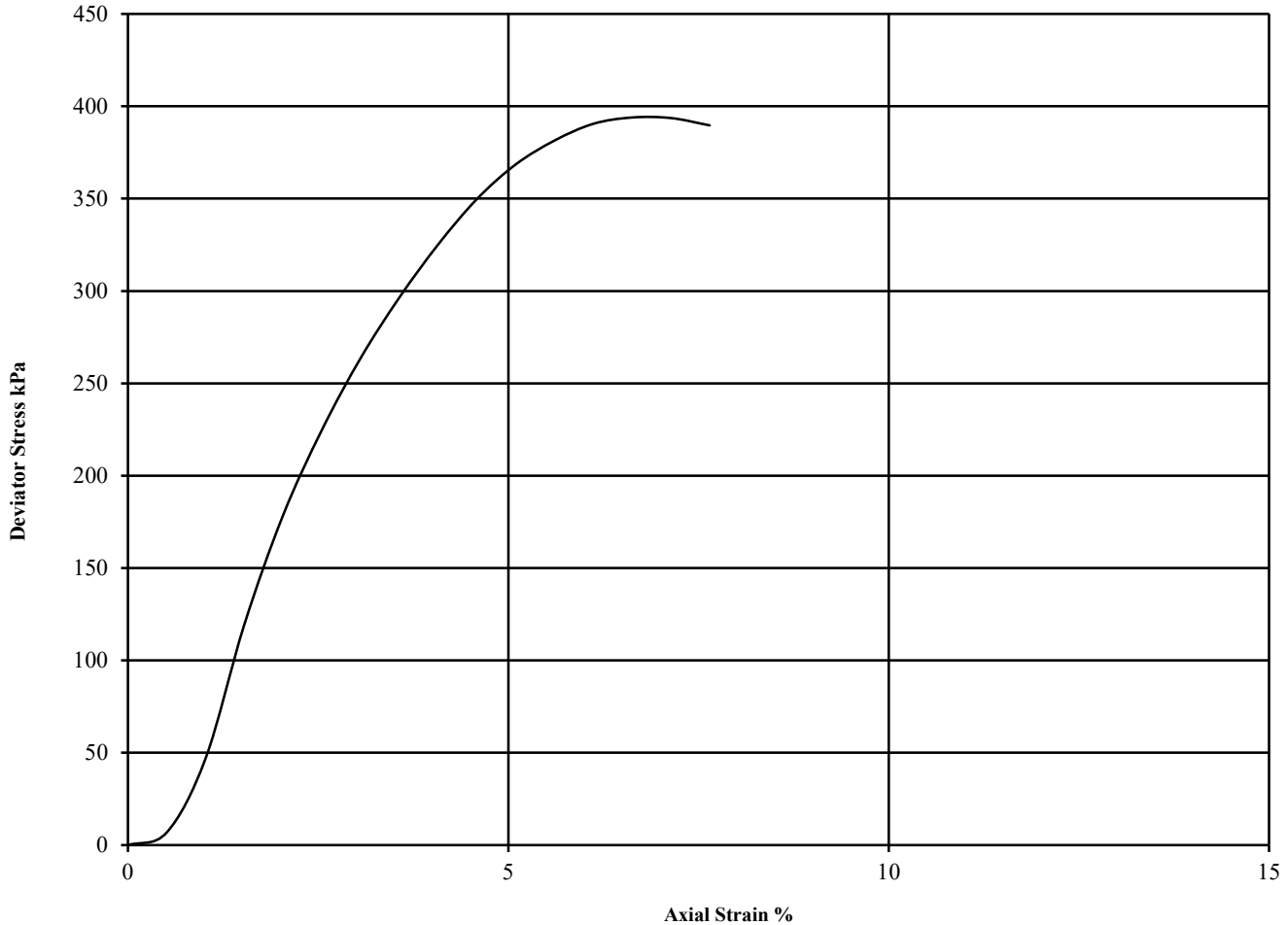
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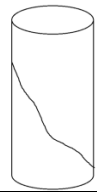
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UNCONSOLIDATED UNDRAINED TRIAXIAL TEST

BS 1377 - Part 2 : 2022 : Clause 28 in accordance with BS EN ISO 17892 - 8 : 2018

Hole Number: **BH24-03** Top Depth (m): **9.00**
 Sample Number: **24** Base Depth (m): **9.45**
 Sample Type: **U**



Diameter (mm):		104		Height (mm):		204		Test:	UU Single Stage	Remarks:
Specimen	Water Content (%)	Bulk Density (Mg/m3)	Dry Density (Mg/m3)	Cell Pressure (kPa)	Corr. Max. Deviator Stress (kPa)	Shear Strength Cu (kPa)	Failure Strain (%)		Undisturbed Sample Sample taken from top of tube Rate of strain = 0.9 %/min See summary of soil descriptions	
1	24.4	2.06	1.66	310	394	197	6.1	Brittle		



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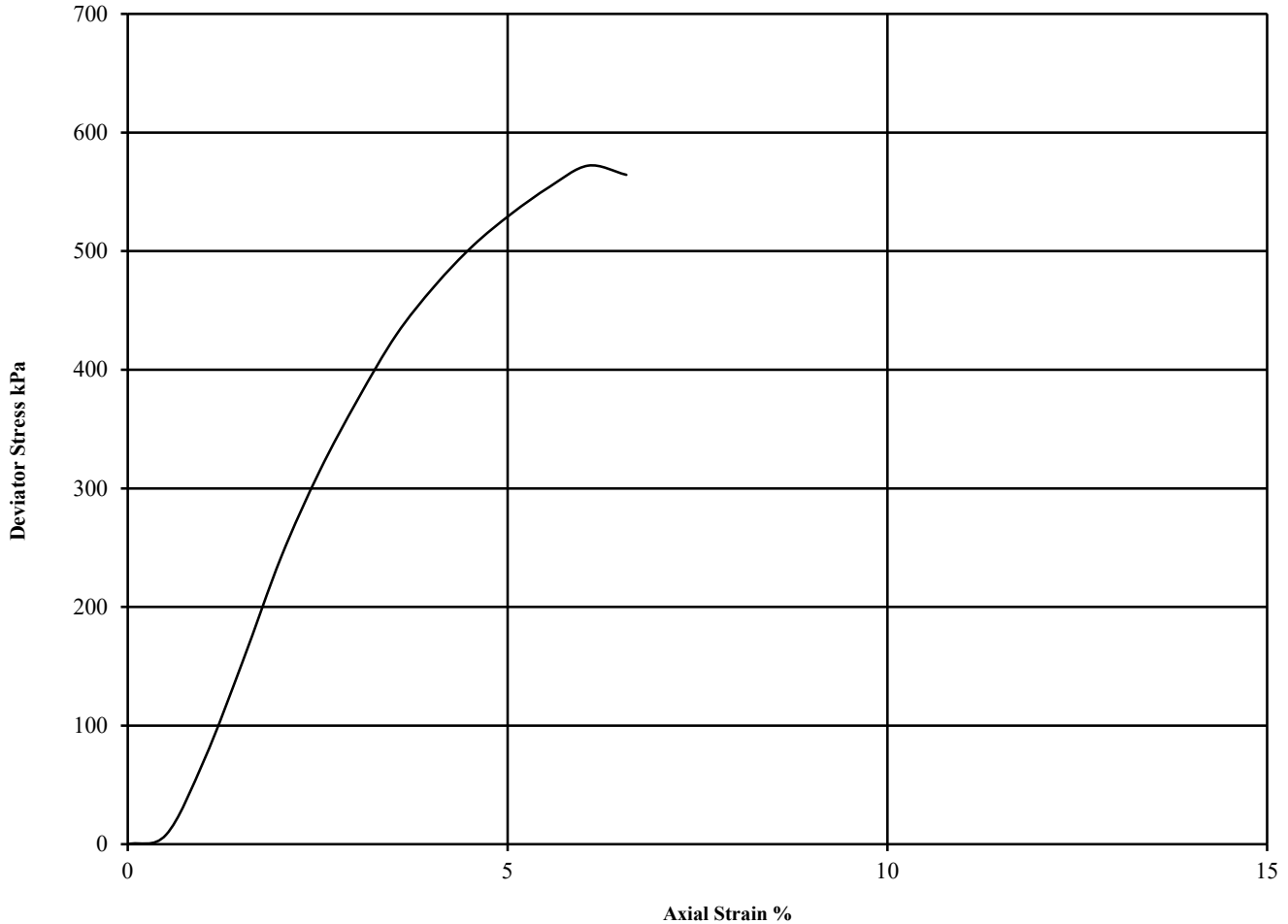
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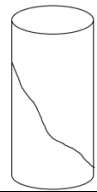
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UNCONSOLIDATED UNDRAINED TRIAXIAL TEST

BS 1377 - Part 2 : 2022 : Clause 28 in accordance with BS EN ISO 17892 - 8 : 2018

Hole Number:	BH24-03	Top Depth (m):	10.50
Sample Number	27	Base Depth (m):	10.95
Sample Type	U		



Diameter (mm):		103		Height (mm):		204		Test:	UU Single Stage	Remarks:
Specimen	Water Content (%)	Bulk Density (Mg/m3)	Dry Density (Mg/m3)	Cell Pressure (kPa)	Corr. Max. Deviator Stress (kPa)	Shear Strength Cu (kPa)	Failure Strain (%)		Undisturbed Sample Sample taken from top of tube Rate of strain = 0.9 %/min See summary of soil descriptions	
1	25.0	2.10	1.68	350	572	286	5.6			Brittle



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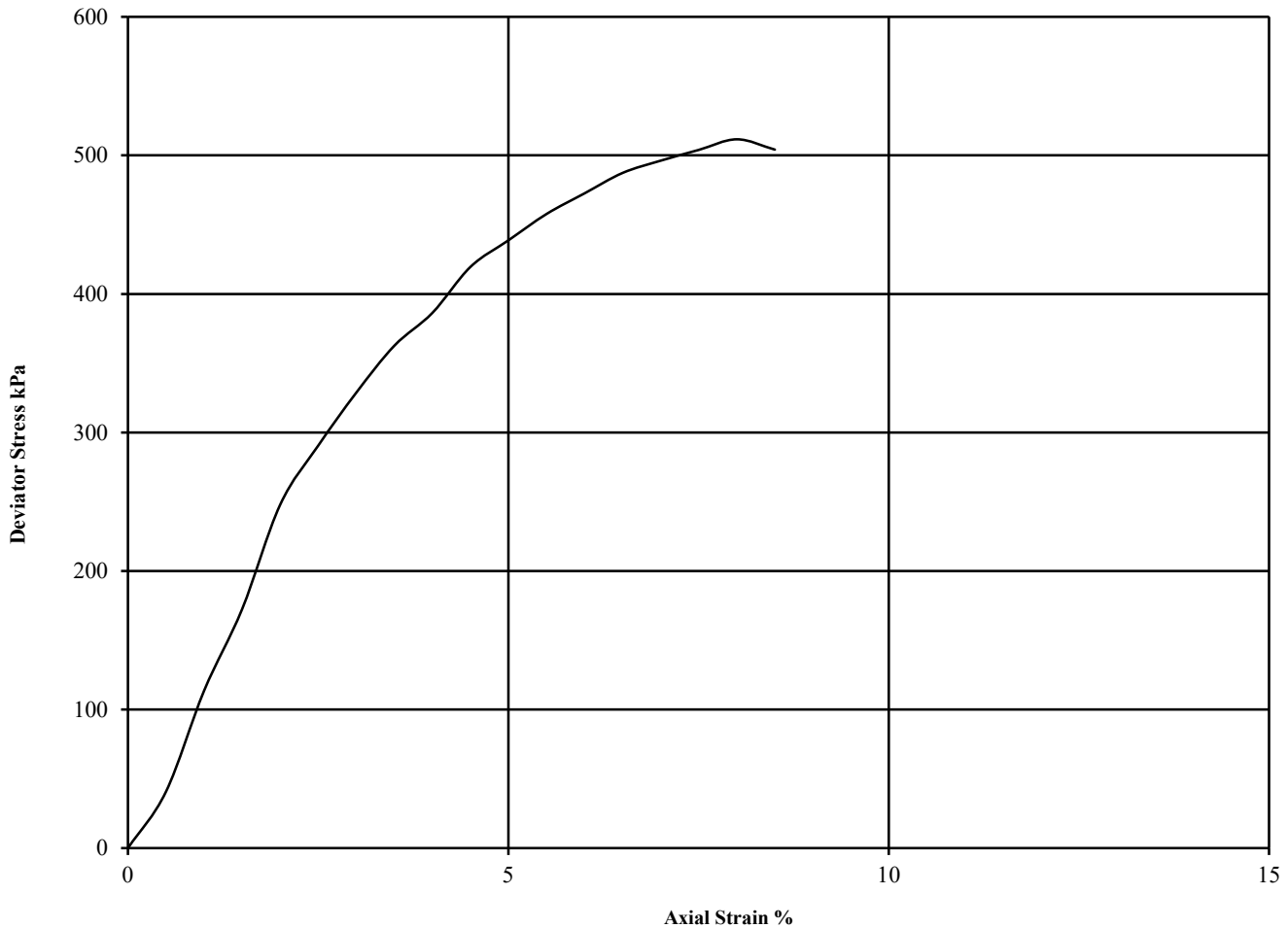
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UNCONSOLIDATED UNDRAINED TRIAXIAL TEST

BS 1377 - Part 2 : 2022 : Clause 28 in accordance with BS EN ISO 17892 - 8 : 2018

Hole Number: **BH24-03** Top Depth (m): **13.50**
 Sample Number **33** Base Depth (m): **13.95**
 Sample Type **U**



Diameter (mm):		102		Height (mm):		204		Test:	UU Single Stage	Remarks:
Specimen	Water Content (%)	Bulk Density (Mg/m3)	Dry Density (Mg/m3)	Cell Pressure (kPa)	Corr. Max. Deviator Stress (kPa)	Shear Strength Cu (kPa)	Failure Strain (%)		Undisturbed Sample Sample taken from top of tube Rate of strain = 0.9 %/min See summary of soil descriptions	
1	25.6	2.08	1.66	430	512	256	7.5	Brittle		



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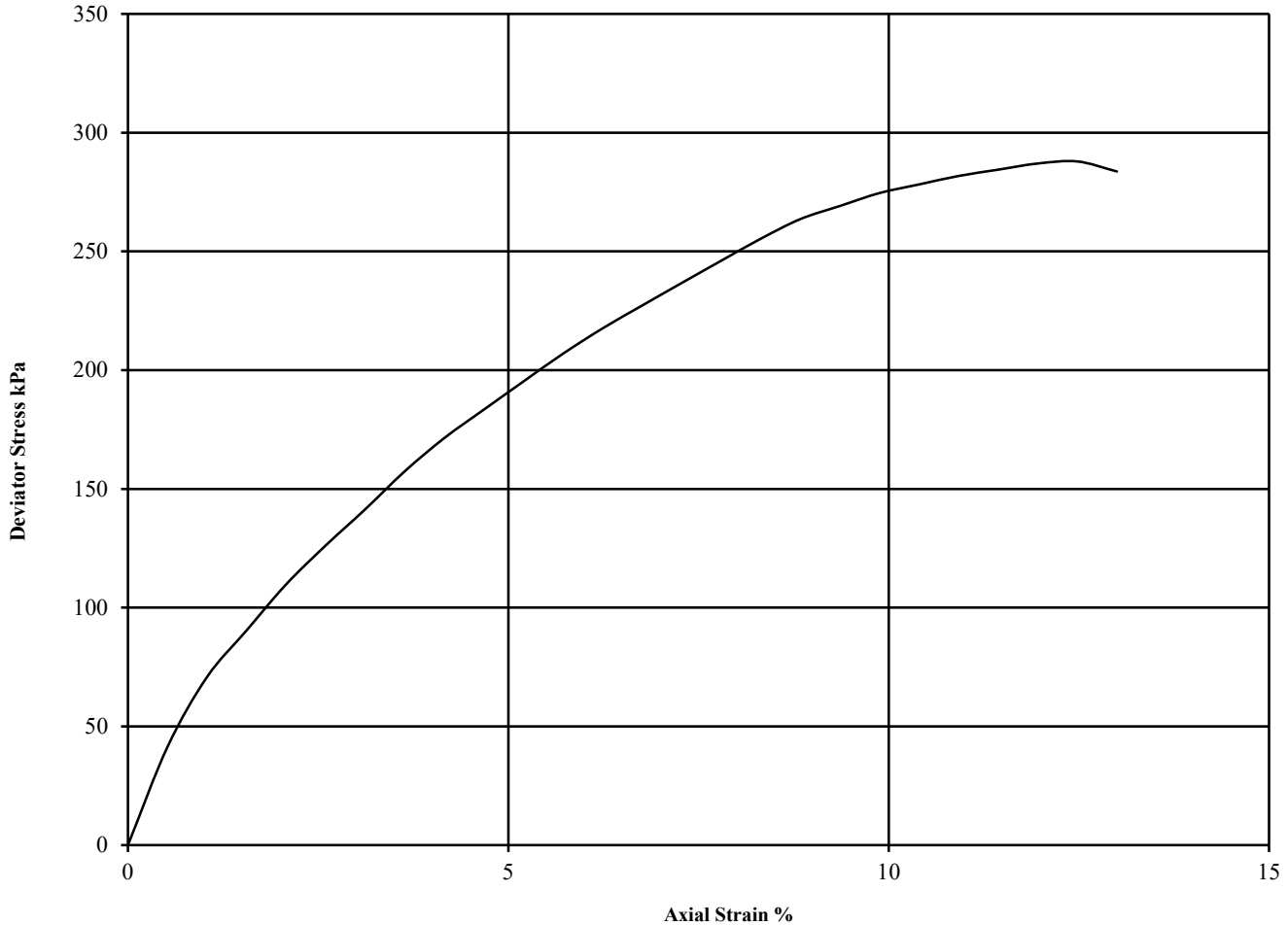
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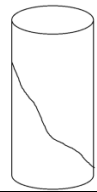
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UNCONSOLIDATED UNDRAINED TRIAXIAL TEST

BS 1377 - Part 2 : 2022 : Clause 28 in accordance with BS EN ISO 17892 - 8 : 2018

Hole Number: BH24-03 Top Depth (m): 16.50
 Sample Number 36 Base Depth (m): 16.95
 Sample Type U



Diameter (mm):		105		Height (mm):		202		Test:	UU Single Stage	Remarks:
Specimen	Water Content (%)	Bulk Density (Mg/m3)	Dry Density (Mg/m3)	Cell Pressure (kPa)	Corr. Max. Deviator Stress (kPa)	Shear Strength Cu (kPa)	Failure Strain (%)		Undisturbed Sample Sample taken from top of tube Rate of strain = 0.9 %/min See summary of soil descriptions	
1	23.3	2.02	1.64	505	288	144	12.0	Brittle		



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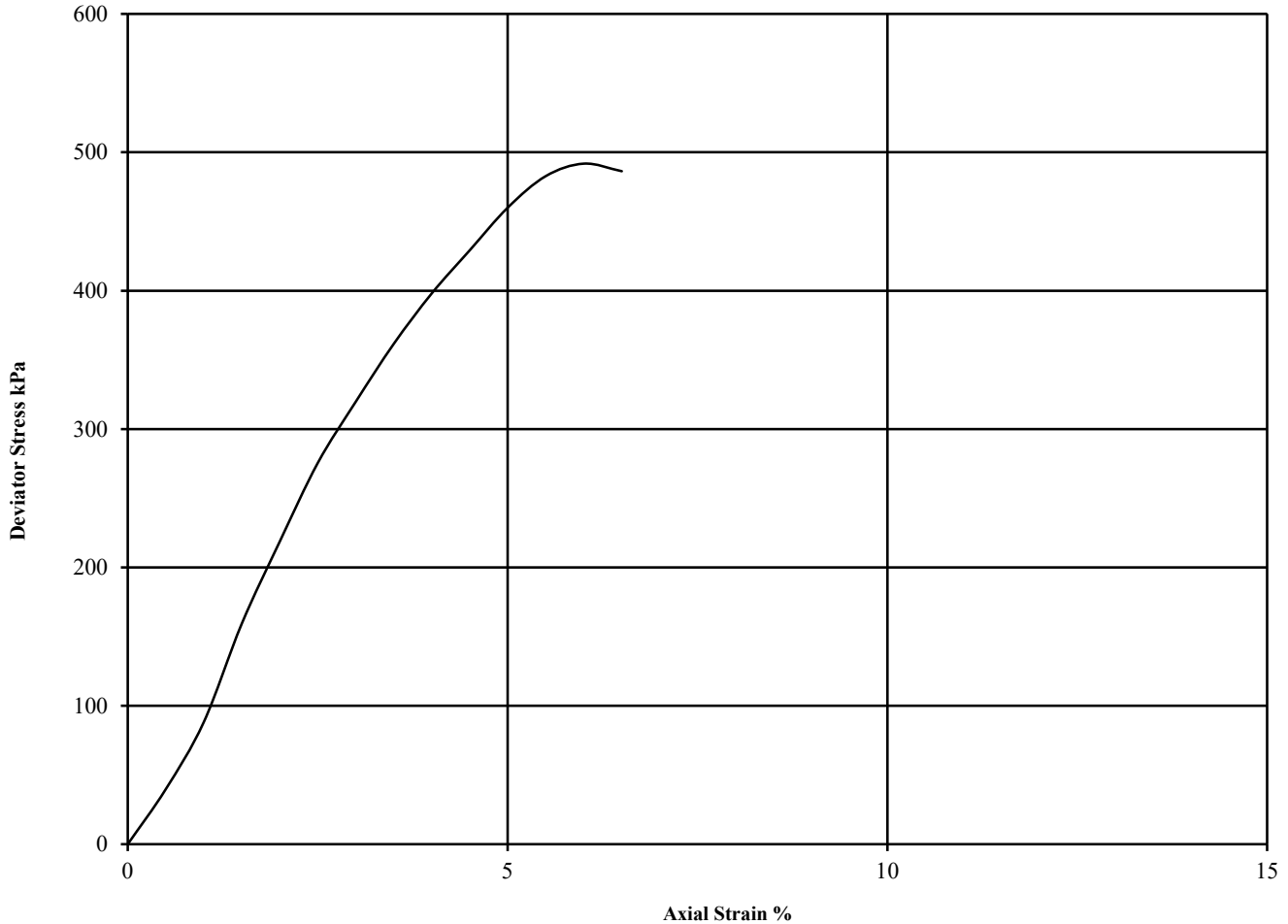
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UNCONSOLIDATED UNDRAINED TRIAXIAL TEST

BS 1377 - Part 2 : 2022 : Clause 28 in accordance with BS EN ISO 17892 - 8 : 2018

Hole Number:	BH24-03	Top Depth (m):	18.00
Sample Number	39	Base Depth (m):	18.45
Sample Type	U		



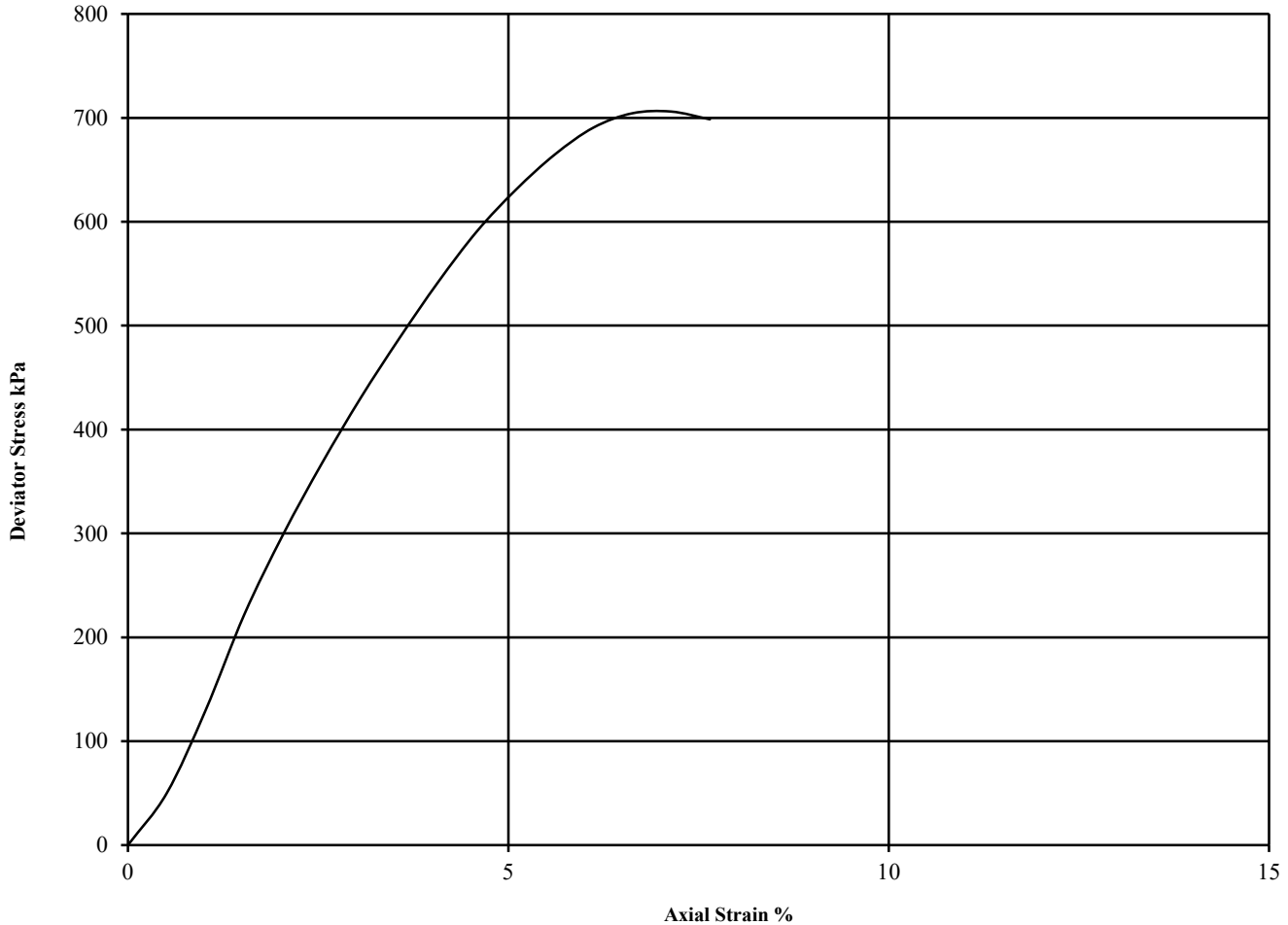
Diameter (mm):		102		Height (mm):		204		Test:	UU Single Stage	Remarks:
Specimen	Water Content (%)	Bulk Density (Mg/m3)	Dry Density (Mg/m3)	Cell Pressure (kPa)	Corr. Max. Deviator Stress (kPa)	Shear Strength Cu (kPa)	Failure Strain (%)		Brittle	Undisturbed Sample Sample taken from top of tube Rate of strain = 0.9 %/min See summary of soil descriptions
1	25.2	2.13	1.70	545	492	246	5.5			

		Thorney Lane Phase 1 Due Dilligence	Contract No:
			PSL24/7021
			Client Ref:
			24/3980

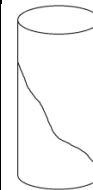
UNCONSOLIDATED UNDRAINED TRIAXIAL TEST



BS 1377 - Part 2 : 2022 : Clause 28 in accordance with BS EN ISO 17892 - 8 : 2018

Hole Number: BH24-03 Top Depth (m): 21.00
 Sample Number 45 Base Depth (m): 21.45
 Sample Type U



Diameter (mm):		Height (mm):			Test:	UU Single Stage		Remarks:
Specimen	Water Content (%)	Bulk Density (Mg/m ³)	Dry Density (Mg/m ³)	Cell Pressure (kPa)	Corr. Max. Deviator Stress (kPa)	Shear Strength Cu (kPa)	Failure Strain (%)	Undisturbed Sample Sample taken from top of tube Rate of strain = 0.9 %/min See summary of soil descriptions
1	24.1	2.08	1.68	620	706	353	6.6	

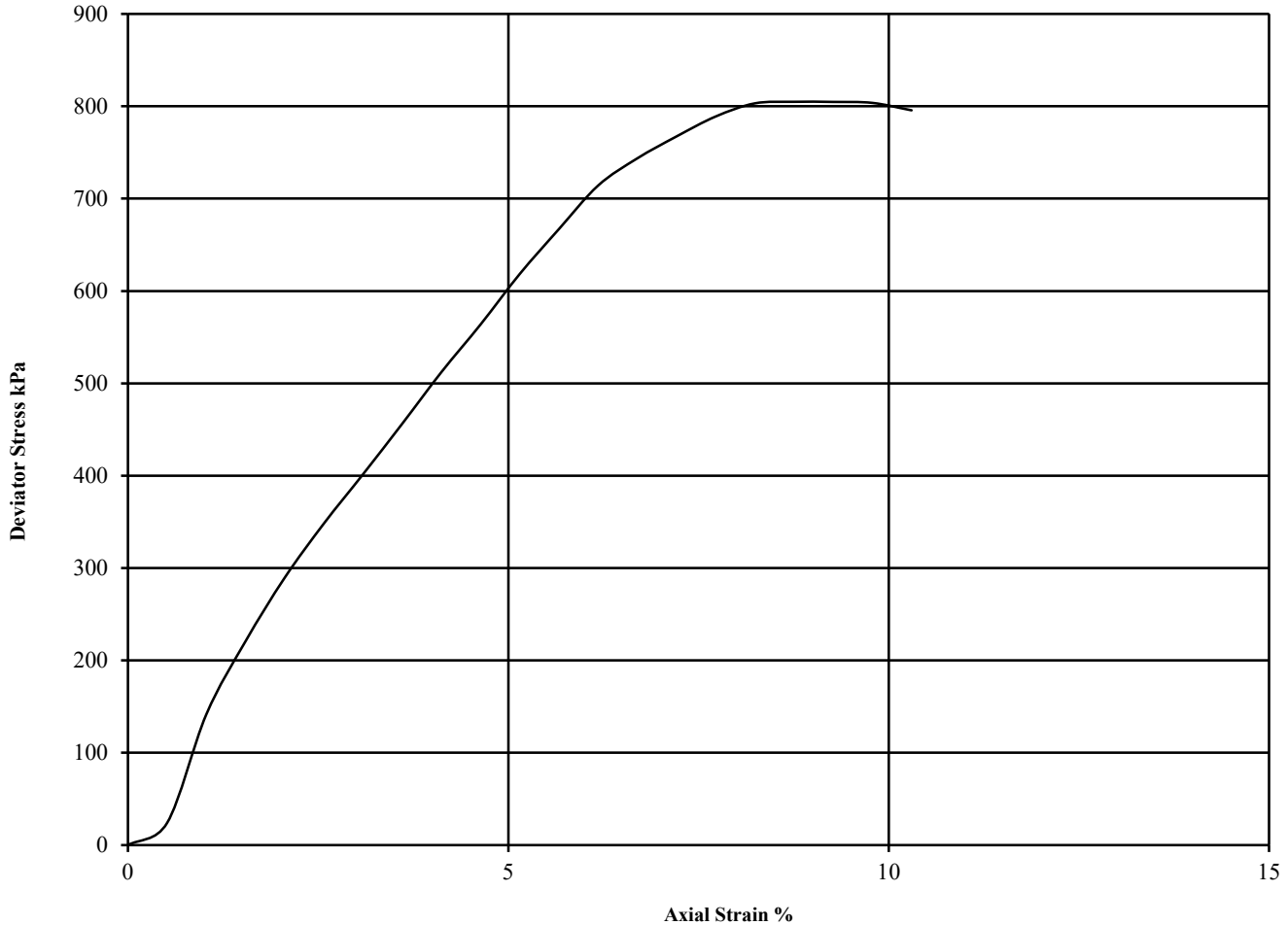


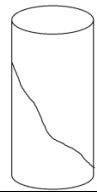
 	Thorney Lane Phase 1 Due Dilligence		Contract No:
			PSL24/7021
			Client Ref:
			24/3980

UNCONSOLIDATED UNDRAINED TRIAXIAL TEST

BS 1377 - Part 2 : 2022 : Clause 28 in accordance with BS EN ISO 17892 - 8 : 2018

Hole Number: **BH24-03** Top Depth (m): **24.00**
 Sample Number **50** Base Depth (m): **24.45**
 Sample Type **U**



Diameter (mm):		105		Height (mm):		204		Test:	UU Single Stage	Remarks:
Specimen	Water Content (%)	Bulk Density (Mg/m3)	Dry Density (Mg/m3)	Cell Pressure (kPa)	Corr. Max. Deviator Stress (kPa)	Shear Strength Cu (kPa)	Failure Strain (%)		Undisturbed Sample Sample taken from top of tube Rate of strain = 0.9 %/min See summary of soil descriptions	
1	22.9	2.07	1.69	690	805	402	8.2	Brittle		



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PSL24/7021

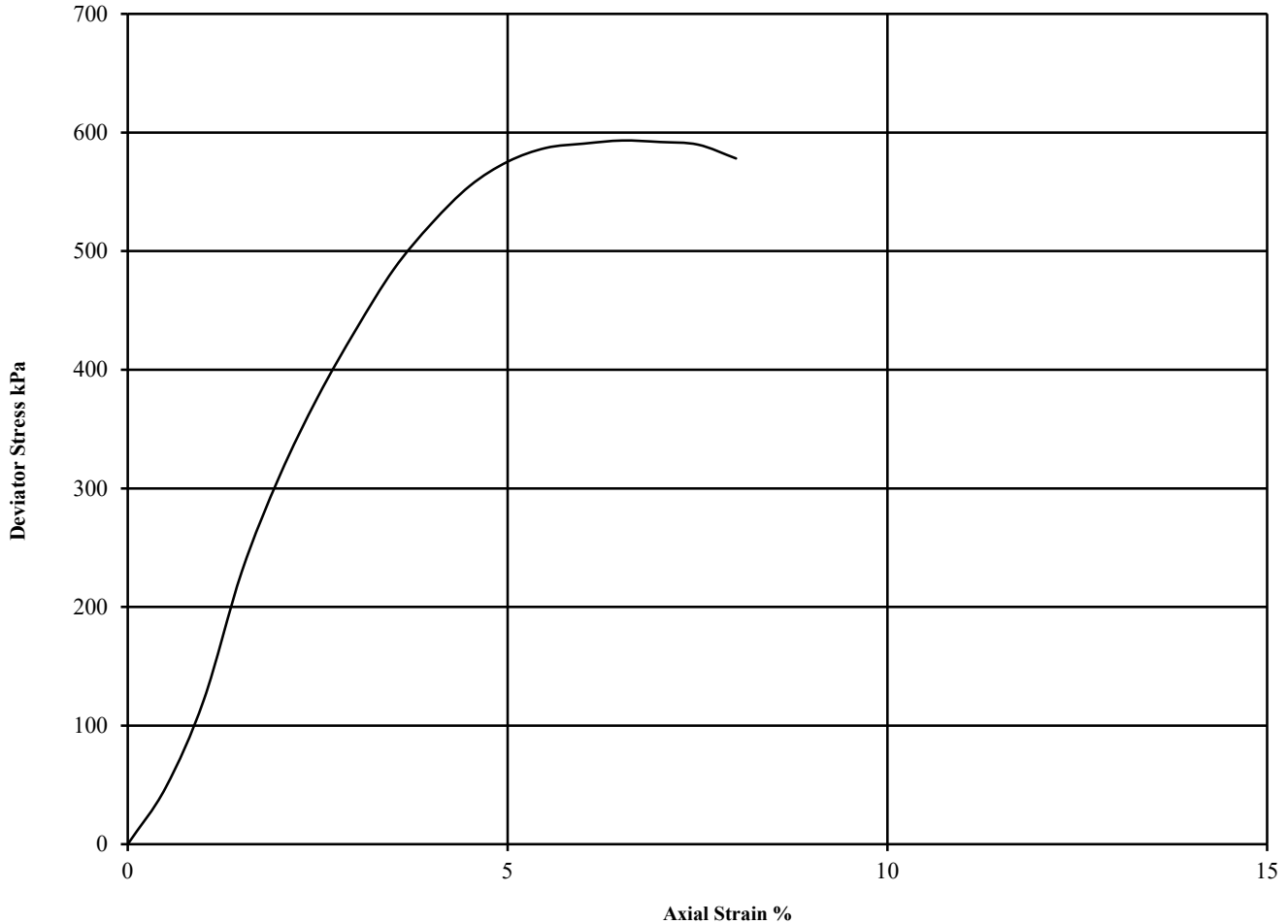
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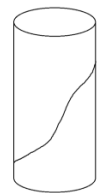
UNCONSOLIDATED UNDRAINED TRIAXIAL TEST

BS 1377 - Part 2 : 2022 : Clause 28 in accordance with BS EN ISO 17892 - 8 : 2018

Hole Number: **BH24-03** Top Depth (m): **27.50**
 Sample Number **56** Base Depth (m): **27.95**
 Sample Type **U**



Diameter (mm):		Height (mm):			Test:	UU Single Stage		Remarks:
Specimen	Water Content (%)	Bulk Density (Mg/m3)	Dry Density (Mg/m3)	Cell Pressure (kPa)	Corr. Max. Deviator Stress (kPa)	Shear Strength Cu (kPa)	Failure Strain (%)	Undisturbed Sample Sample taken from top of tube Rate of strain = 0.9 %/min See summary of soil descriptions
1	20.3	2.08	1.73	770	593	297	6.0	



Brittle



Thorney Lane Phase 1 Due Dilligence

Contract No:

PSL24/7021

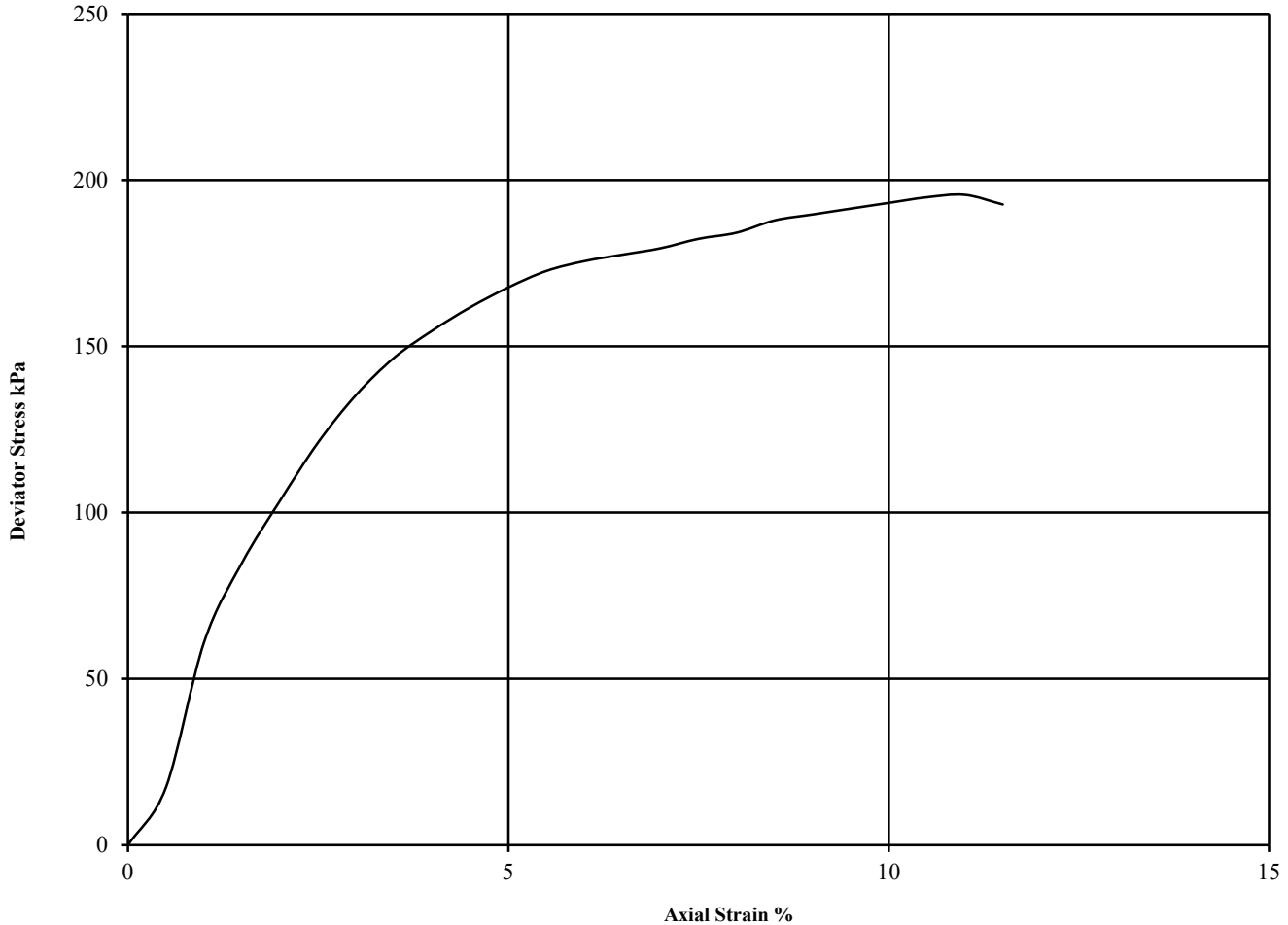
Client Ref:


24/3980

UNCONSOLIDATED UNDRAINED TRIAXIAL TEST

BS 1377 - Part 2 : 2022 : Clause 28 in accordance with BS EN ISO 17892 - 8 : 2018

Hole Number:	BH24-04A	Top Depth (m):	4.00
Sample Number	14	Base Depth (m):	4.45
Sample Type	U		



Diameter (mm):		102		Height (mm):		204		Test:	UU Single Stage	Remarks:
Specimen	Water Content (%)	Bulk Density (Mg/m3)	Dry Density (Mg/m3)	Cell Pressure (kPa)	Corr. Max. Deviator Stress (kPa)	Shear Strength Cu (kPa)	Failure Strain (%)		Undisturbed Sample Sample taken from top of tube Rate of strain = 0.9 %/min See summary of soil descriptions	
1	25.1	2.14	1.71	160	196	98	10.5			Brittle



Thorney Lane Phase 1 Due Diligence

Contract No:

PSL24/7020

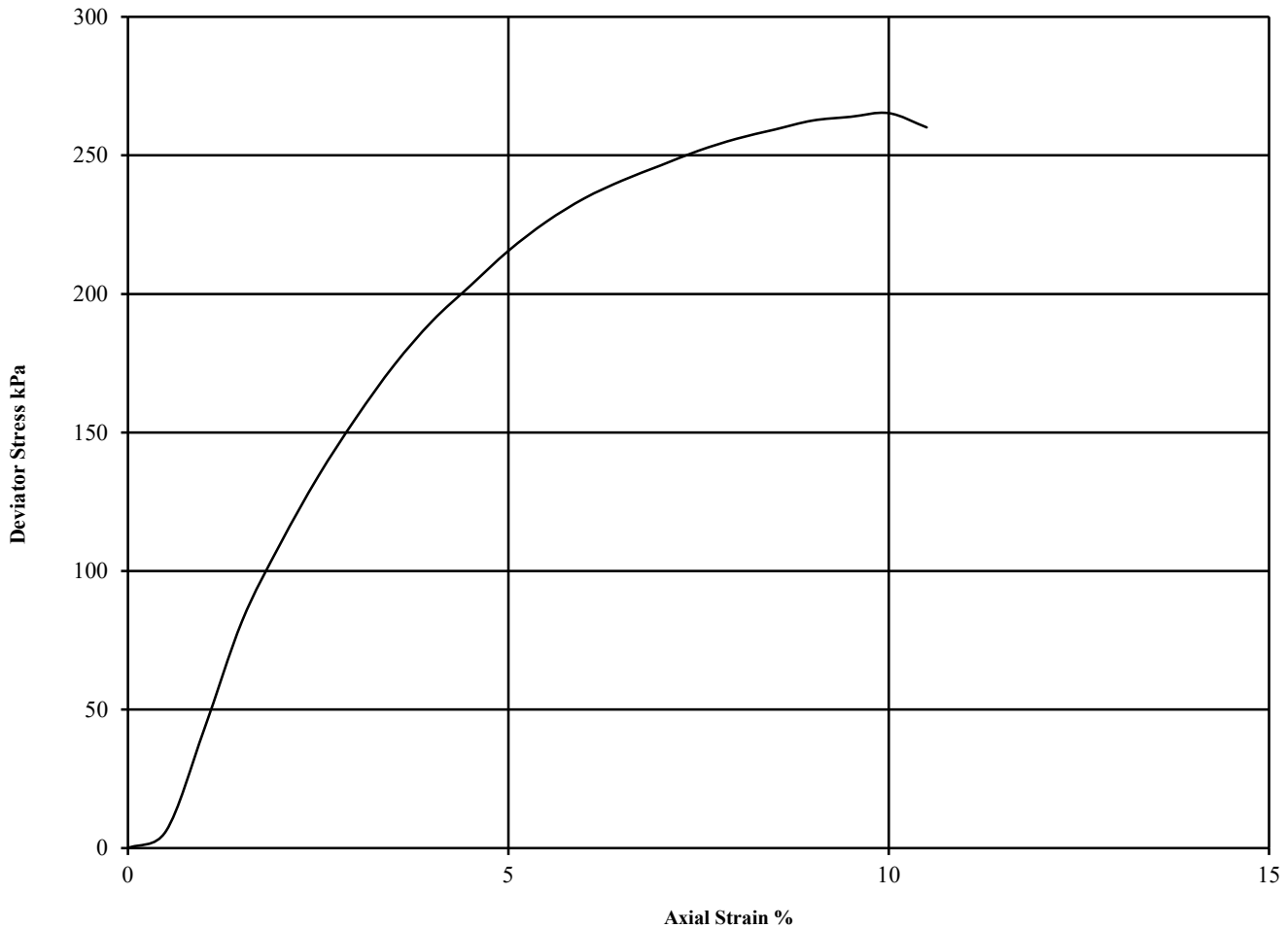
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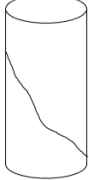
24/3980

UNCONSOLIDATED UNDRAINED TRIAXIAL TEST

BS 1377 - Part 2 : 2022 : Clause 28 in accordance with BS EN ISO 17892 - 8 : 2018

Hole Number: **BH24-04A** Top Depth (m): **6.00**
 Sample Number **19** Base Depth (m): **6.45**
 Sample Type **U**



Diameter (mm):		102		Height (mm):		204		Test:	UU Single Stage	Remarks:
Specimen	Water Content (%)	Bulk Density (Mg/m3)	Dry Density (Mg/m3)	Cell Pressure (kPa)	Corr. Max. Deviator Stress (kPa)	Shear Strength Cu (kPa)	Failure Strain (%)		Undisturbed Sample Sample taken from top of tube Rate of strain = 0.9 %/min See summary of soil descriptions	
1	24.5	2.15	1.73	230	265	133	9.5	Brittle		



Thorney Lane Phase 1 Due Diligence

Contract No:

PSL24/7020

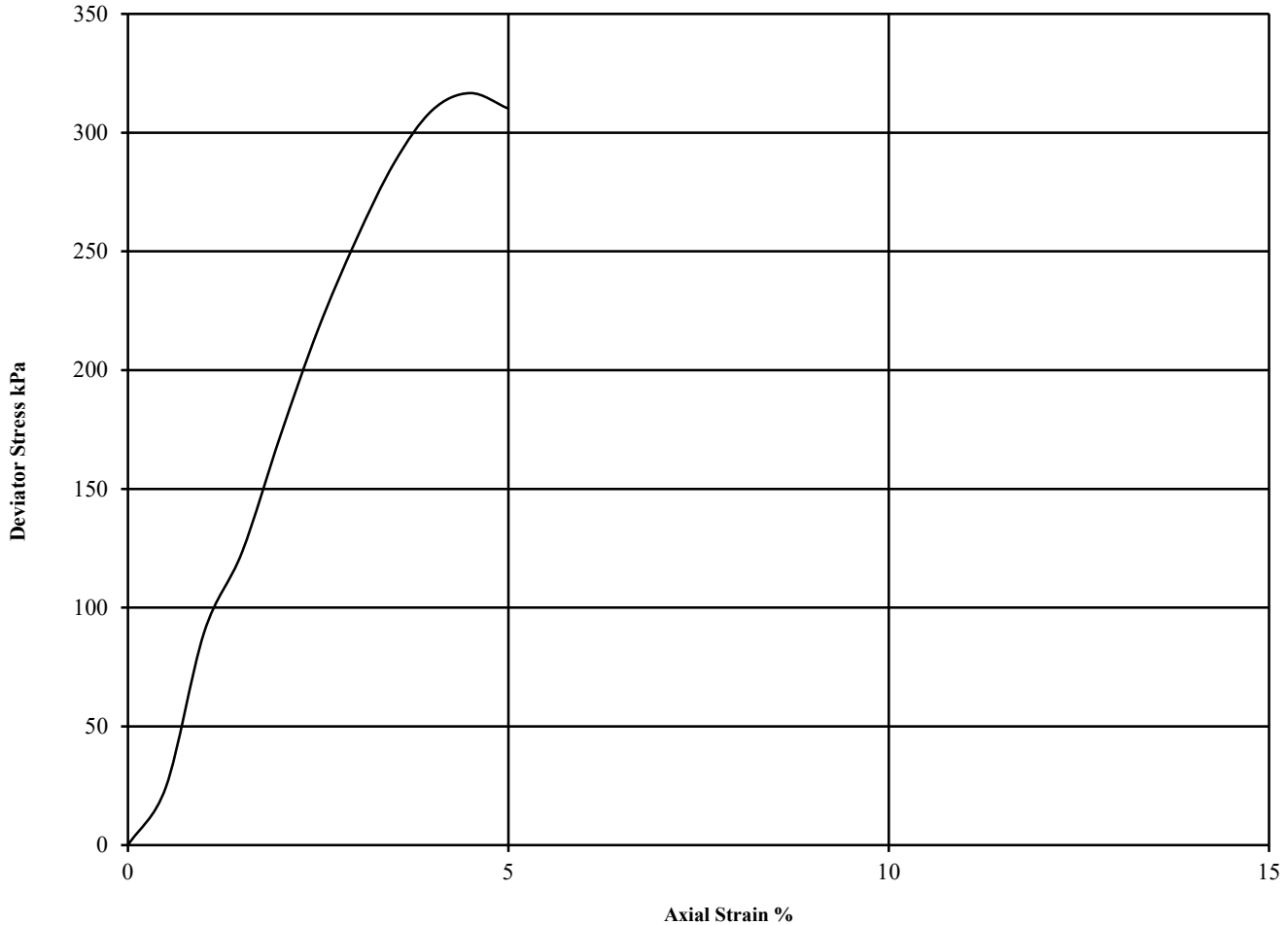
Client Ref:


24/3980

UNCONSOLIDATED UNDRAINED TRIAXIAL TEST

BS 1377 - Part 2 : 2022 : Clause 28 in accordance with BS EN ISO 17892 - 8 : 2018

Hole Number:	BH24-04A	Top Depth (m):	9.00
Sample Number	25	Base Depth (m):	9.45
Sample Type	U		



Diameter (mm):		102		Height (mm):		204		Test:	UU Single Stage	Remarks:
Specimen	Water Content (%)	Bulk Density (Mg/m ³)	Dry Density (Mg/m ³)	Cell Pressure (kPa)	Corr. Max. Deviator Stress (kPa)	Shear Strength Cu (kPa)	Failure Strain (%)		Undisturbed Sample Sample taken from top of tube Rate of strain = 0.9 %/min See summary of soil descriptions	
1	24.4	2.17	1.75	310	317	158	4.0			Brittle



Thorney Lane Phase 1 Due Diligence

Contract No:

PSL24/7020

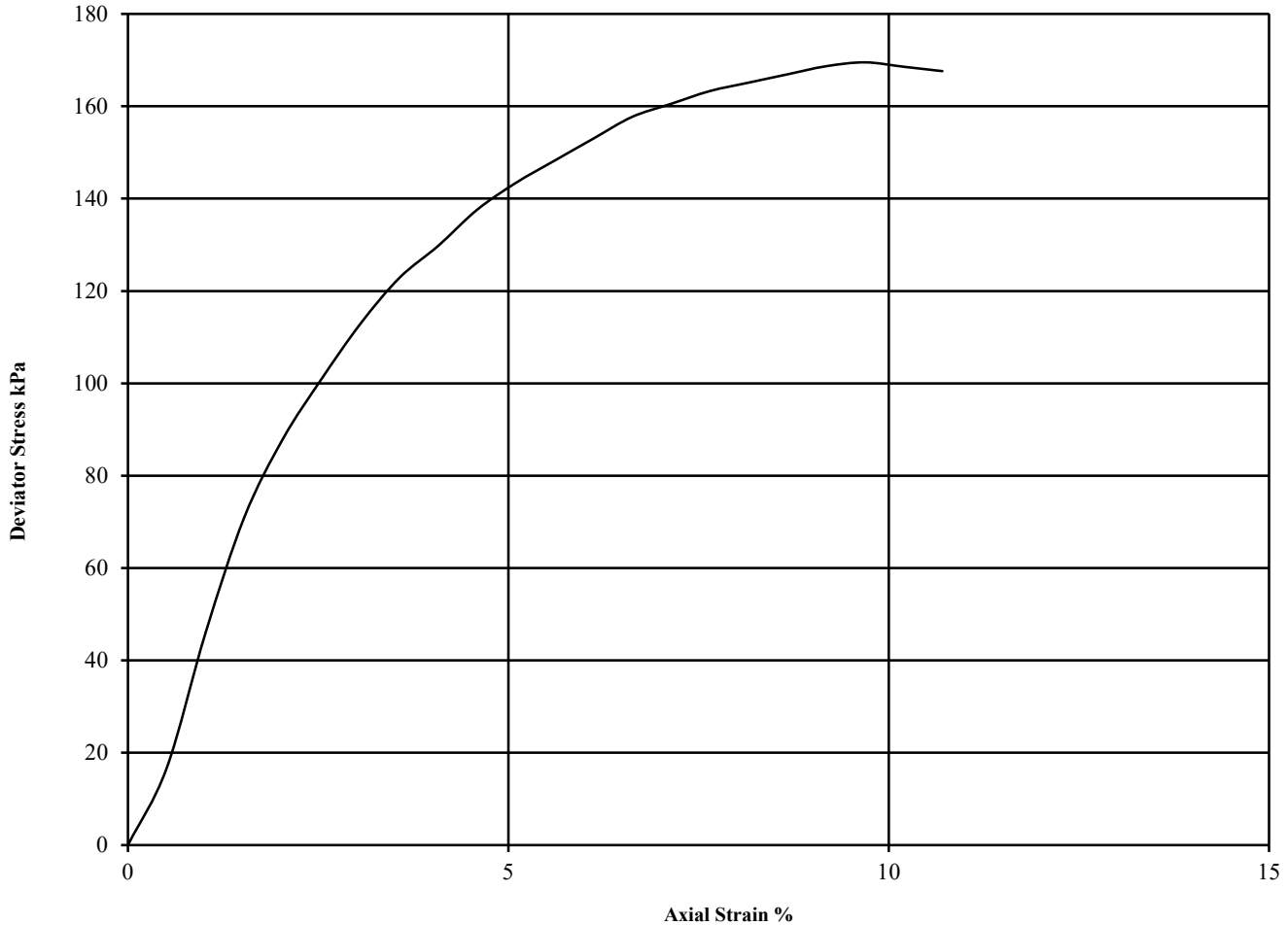
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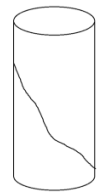
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UNCONSOLIDATED UNDRAINED TRIAXIAL TEST

BS 1377 - Part 2 : 2022 : Clause 28 in accordance with BS EN ISO 17892 - 8 : 2018

Hole Number: BH24-05 Top Depth (m): 4.50
 Sample Number 12 Base Depth (m): 4.95
 Sample Type U



Diameter (mm):		104		Height (mm):		204		Test:	UU Single Stage	Remarks:
Specimen	Water Content (%)	Bulk Density (Mg/m3)	Dry Density (Mg/m3)	Cell Pressure (kPa)	Corr. Max. Deviator Stress (kPa)	Shear Strength Cu (kPa)	Failure Strain (%)		Undisturbed Sample Sample taken from top of tube Rate of strain = 0.9 %/min See summary of soil descriptions	
1	25.2	2.07	1.65	180	170	85	9.2	Brittle		



Thorney Lane Phase 1 Due Diligence

Contract No:

PSL24/7025

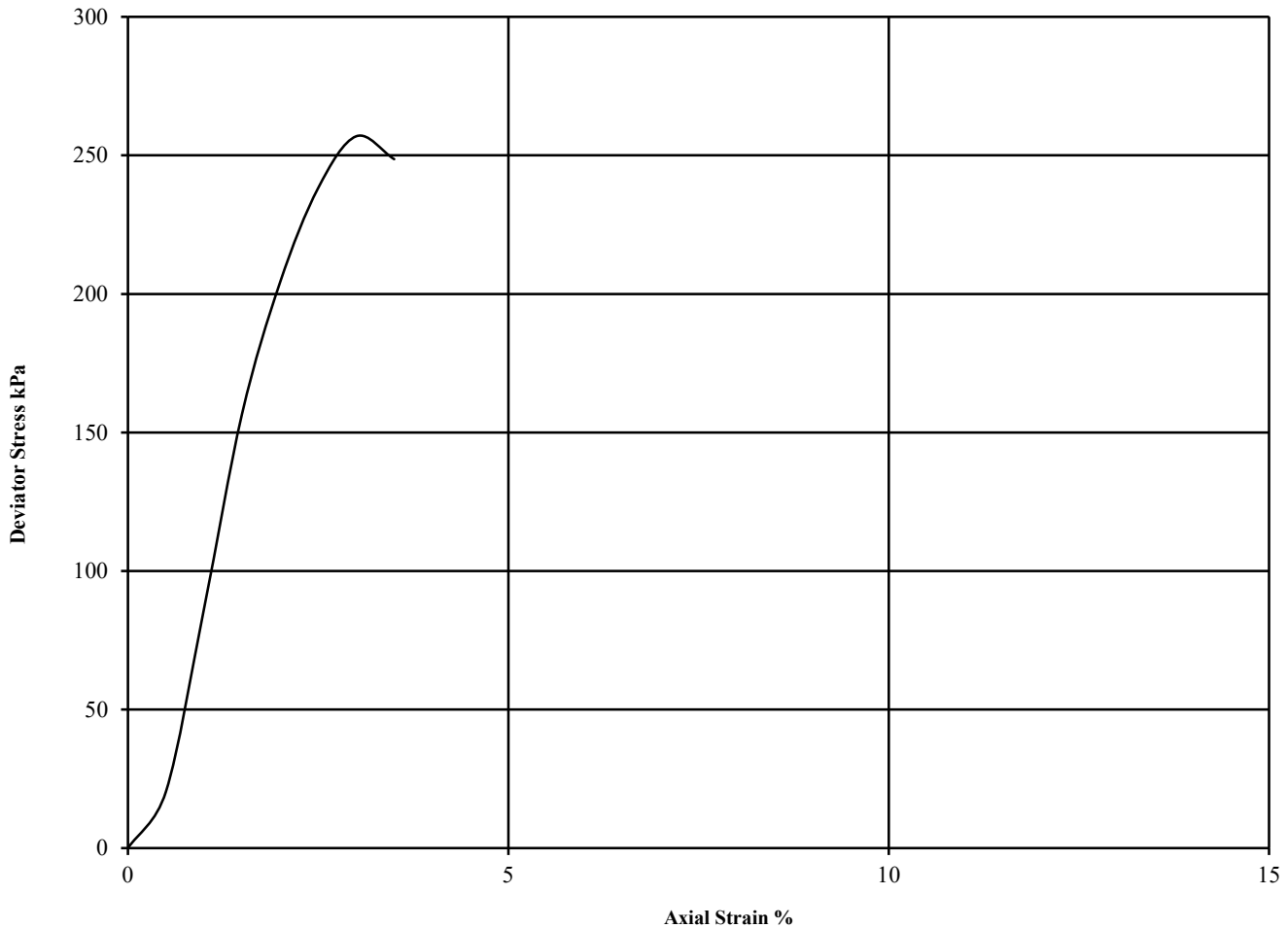
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24/3980



UNCONSOLIDATED UNDRAINED TRIAXIAL TEST

BS 1377 - Part 2 : 2022 : Clause 28 in accordance with BS EN ISO 17892 - 8 : 2018

Hole Number:	BH24-05	Top Depth (m):	10.50
Sample Number	21	Base Depth (m):	10.95
Sample Type	U		



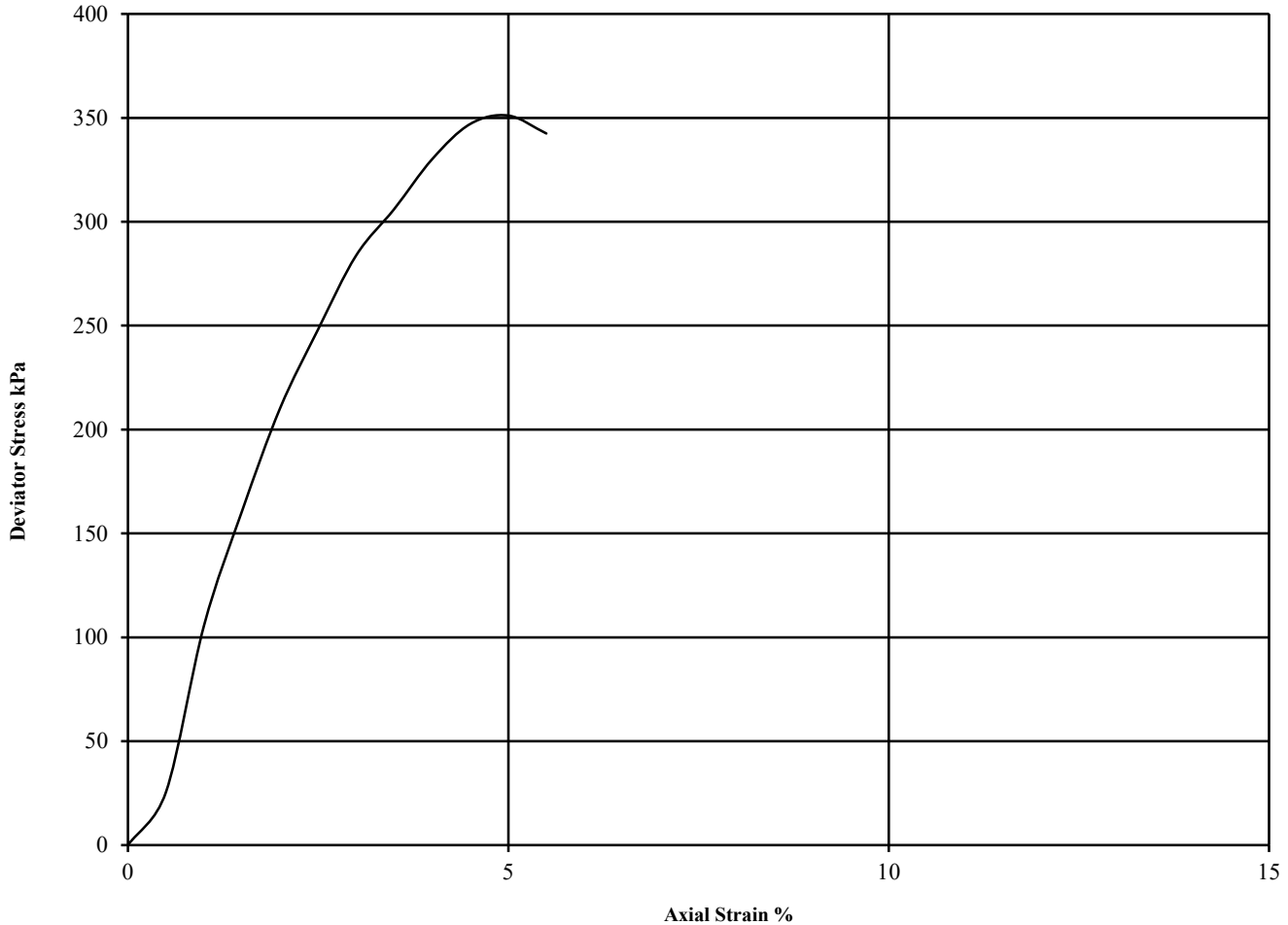
Diameter (mm):		102		Height (mm):		204		Test:	UU Single Stage	Remarks:
Specimen	Water Content (%)	Bulk Density (Mg/m3)	Dry Density (Mg/m3)	Cell Pressure (kPa)	Corr. Max. Deviator Stress (kPa)	Shear Strength Cu (kPa)	Failure Strain (%)		Undisturbed Sample Sample taken from top of tube Rate of strain = 0.9 %/min See summary of soil descriptions	
1	25.3	2.14	1.71	350	257	128	2.5			Brittle

		Thorney Lane Phase 1 Due Diligence	Contract No:
			PSL24/7025
			Client Ref:
			24/3980



UNCONSOLIDATED UNDRAINED TRIAXIAL TEST

BS 1377 - Part 2 : 2022 : Clause 28 in accordance with BS EN ISO 17892 - 8 : 2018

Hole Number: **BH24-05** Top Depth (m): **13.50**
 Sample Number: **26** Base Depth (m): **13.95**
 Sample Type: **U**



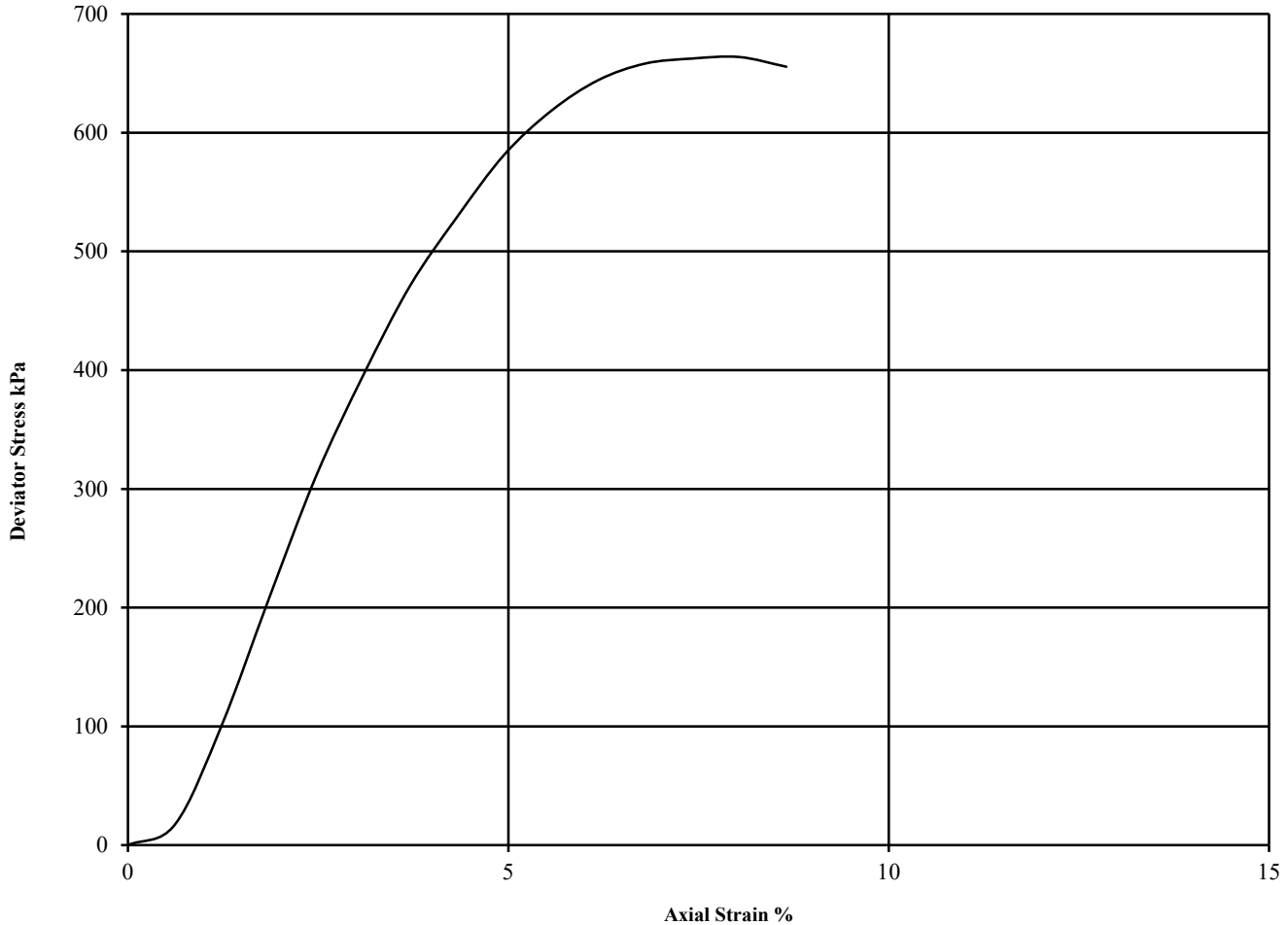
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Specimen	Water Content (%)	Bulk Density (Mg/m ³)	Dry Density (Mg/m ³)	Cell Pressure (kPa)	Corr. Max. Deviator Stress (kPa)	Shear Strength Cu (kPa)	Failure Strain (%)	Undisturbed Sample Sample taken from top of tube Rate of strain = 0.9 %/min See summary of soil descriptions
1	24.8	2.12	1.70	430	351	176	4.5	

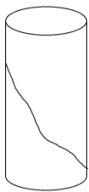
 	Thorney Lane Phase 1 Due Diligence		Contract No:
			PSL24/7025
			Client Ref:
			24/3980

UNCONSOLIDATED UNDRAINED TRIAXIAL TEST

BS 1377 - Part 2 : 2022 : Clause 28 in accordance with BS EN ISO 17892 - 8 : 2018

Hole Number: **BH24-05** Top Depth (m): **16.50**
 Sample Number **30** Base Depth (m): **16.95**
 Sample Type **U**



Diameter (mm):		102		Height (mm):		165		Test:	UU Single Stage	Remarks:
Specimen	Water Content (%)	Bulk Density (Mg/m3)	Dry Density (Mg/m3)	Cell Pressure (kPa)	Corr. Max. Deviator Stress (kPa)	Shear Strength Cu (kPa)	Failure Strain (%)		Undisturbed Sample Sample taken from top of tube Rate of strain = 1.2 %/min See summary of soil descriptions	
1	24.9	2.11	1.69	505	664	332	7.4	Brittle		



Thorney Lane Phase 1 Due Diligence

Contract No:

PSL24/7025

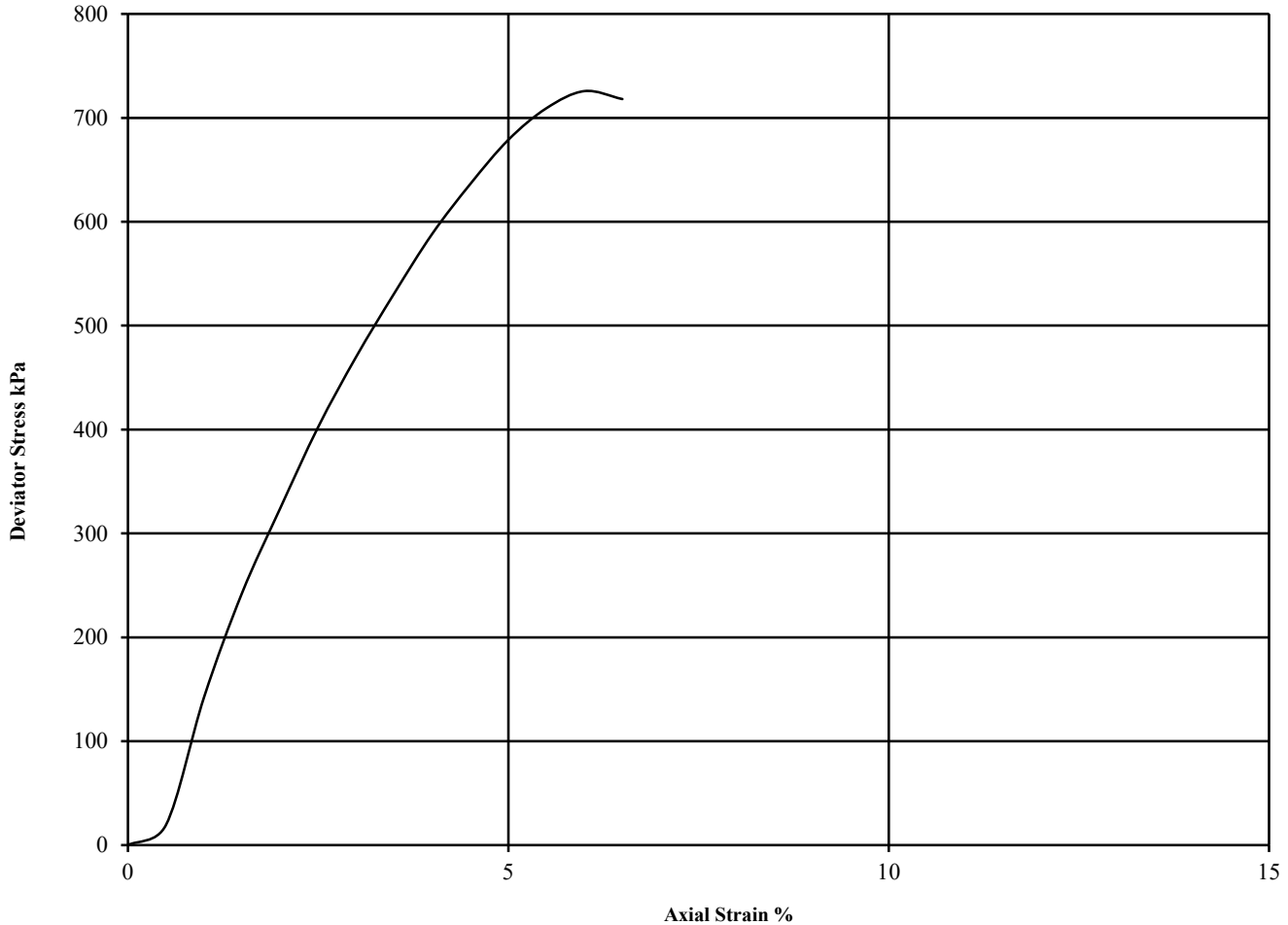
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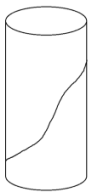
24/3980

UNCONSOLIDATED UNDRAINED TRIAXIAL TEST

BS 1377 - Part 2 : 2022 : Clause 28 in accordance with BS EN ISO 17892 - 8 : 2018

Hole Number:	BH24-05	Top Depth (m):	19.50
Sample Number	35	Base Depth (m):	19.95
Sample Type	U		



Diameter (mm):		102			Height (mm):		204		Test:	UU Single Stage	Remarks:
Specimen	Water Content (%)	Bulk Density (Mg/m3)	Dry Density (Mg/m3)	Cell Pressure (kPa)	Corr. Max. Deviator Stress (kPa)	Shear Strength Cu (kPa)	Failure Strain (%)		Undisturbed Sample Sample taken from top of tube Rate of strain = 0.9 %/min See summary of soil descriptions		
1	22.8	2.18	1.78	580	726	363	5.5				



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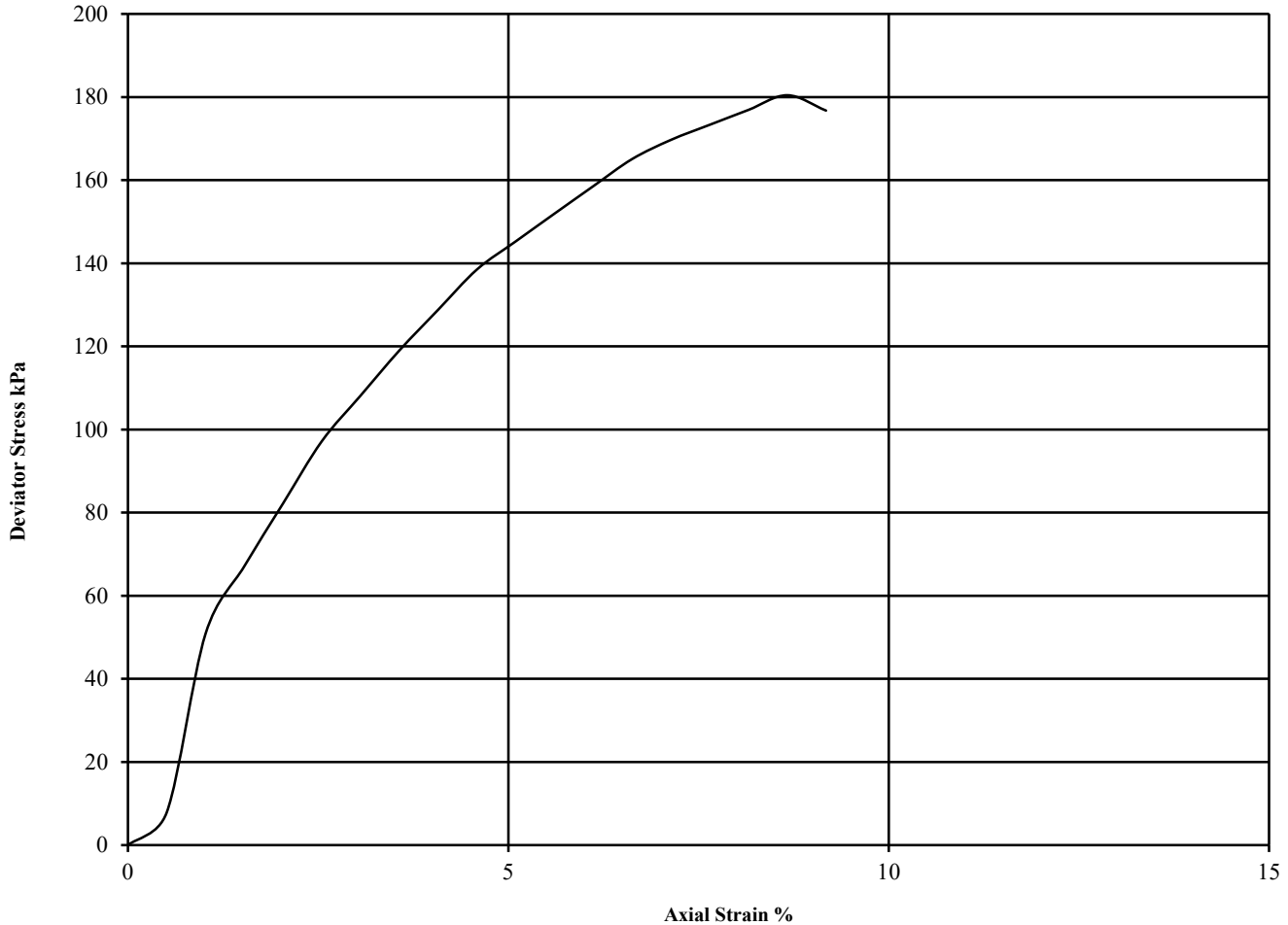
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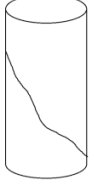
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UNCONSOLIDATED UNDRAINED TRIAXIAL TEST

BS 1377 - Part 2 : 2022 : Clause 28 in accordance with BS EN ISO 17892 - 8 : 2018

Hole Number: BH24-05 Top Depth (m): 22.00
 Sample Number 41 Base Depth (m): 22.45
 Sample Type U



Diameter (mm):		104		Height (mm):		204		Test:	UU Single Stage	Remarks:
Specimen	Water Content (%)	Bulk Density (Mg/m3)	Dry Density (Mg/m3)	Cell Pressure (kPa)	Corr. Max. Deviator Stress (kPa)	Shear Strength Cu (kPa)	Failure Strain (%)		Undisturbed Sample Sample taken from top of tube Rate of strain = 0.9 %/min See summary of soil descriptions	
1	24.0	2.12	1.71	645	180	90	8.2	Brittle		



Thorney Lane Phase 1 Due Diligence

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PSL24/7025

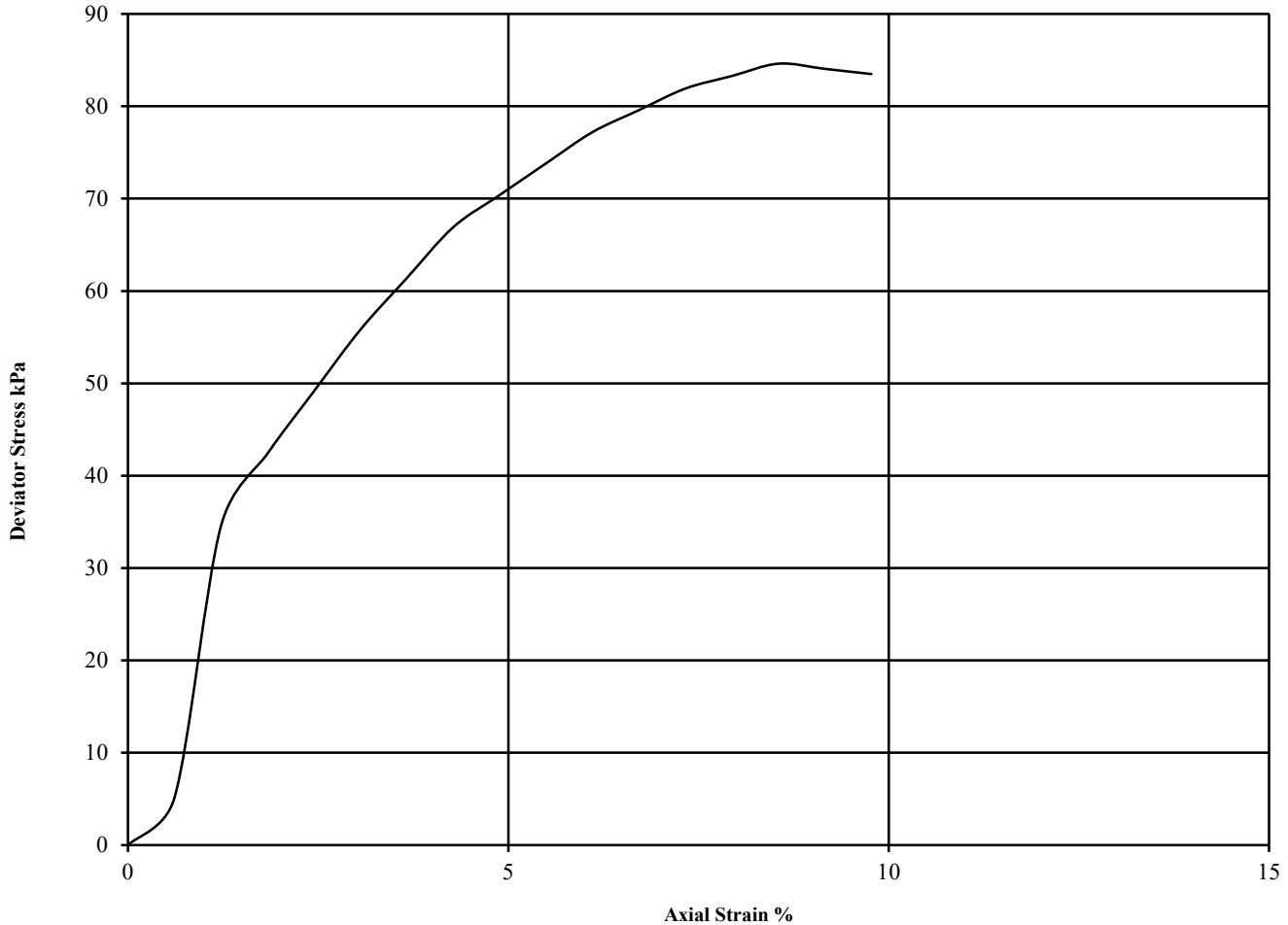
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UNCONSOLIDATED UNDRAINED TRIAXIAL TEST

BS 1377 - Part 2 : 2022 : Clause 28 in accordance with BS EN ISO 17892 - 8 : 2018

Hole Number: **BH24-05** Top Depth (m): **25.00**
 Sample Number **45** Base Depth (m): **25.45**
 Sample Type **U**



Diameter (mm):		102		Height (mm):		167		Test:	UU Single Stage	Remarks:
Specimen	Water Content (%)	Bulk Density (Mg/m3)	Dry Density (Mg/m3)	Cell Pressure (kPa)	Corr. Max. Deviator Stress (kPa)	Shear Strength Cu (kPa)	Failure Strain (%)		Undisturbed Sample Sample taken from top of tube Rate of strain = 1.1 %/min See summary of soil descriptions	
1	28.5	2.12	1.65	715	85	42	7.9	Brittle		



Thorney Lane Phase 1 Due Diligence

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PSL24/7025

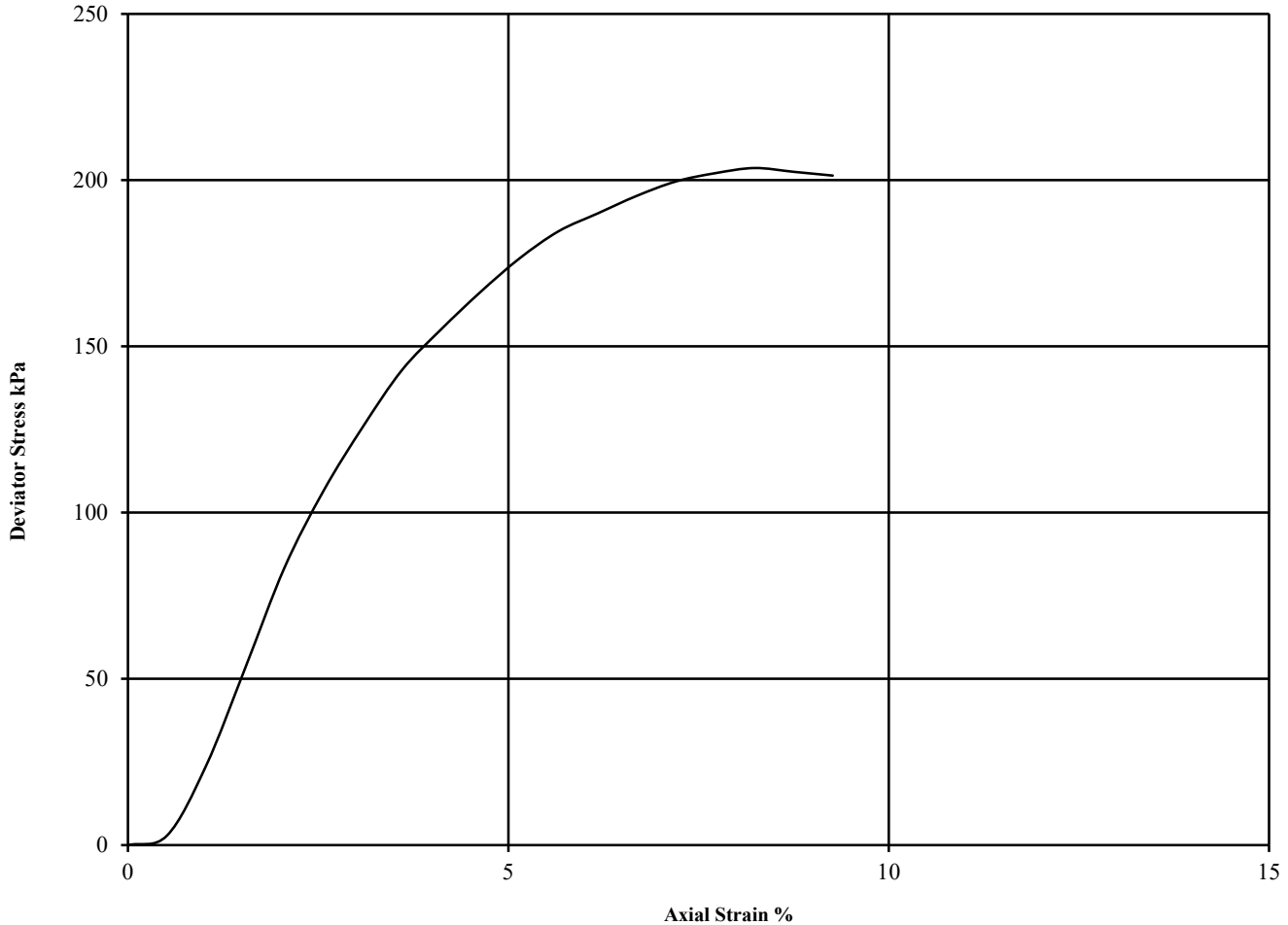
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UNCONSOLIDATED UNDRAINED TRIAXIAL TEST

BS 1377 - Part 2 : 2022 : Clause 28 in accordance with BS EN ISO 17892 - 8 : 2018

Hole Number:	BH24-06	Top Depth (m):	3.50
Sample Number	20	Base Depth (m):	3.95
Sample Type	U		



Diameter (mm):		105		Height (mm):		204		Test:	UU Single Stage	Remarks:
Specimen	Water Content (%)	Bulk Density (Mg/m3)	Dry Density (Mg/m3)	Cell Pressure (kPa)	Corr. Max. Deviator Stress (kPa)	Shear Strength Cu (kPa)	Failure Strain (%)		Undisturbed Sample Sample taken from top of tube Rate of strain = 0.9 %/min See summary of soil descriptions	
1	24.6	2.05	1.64	75	204	102	7.7			Plastic



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PSL24/6955

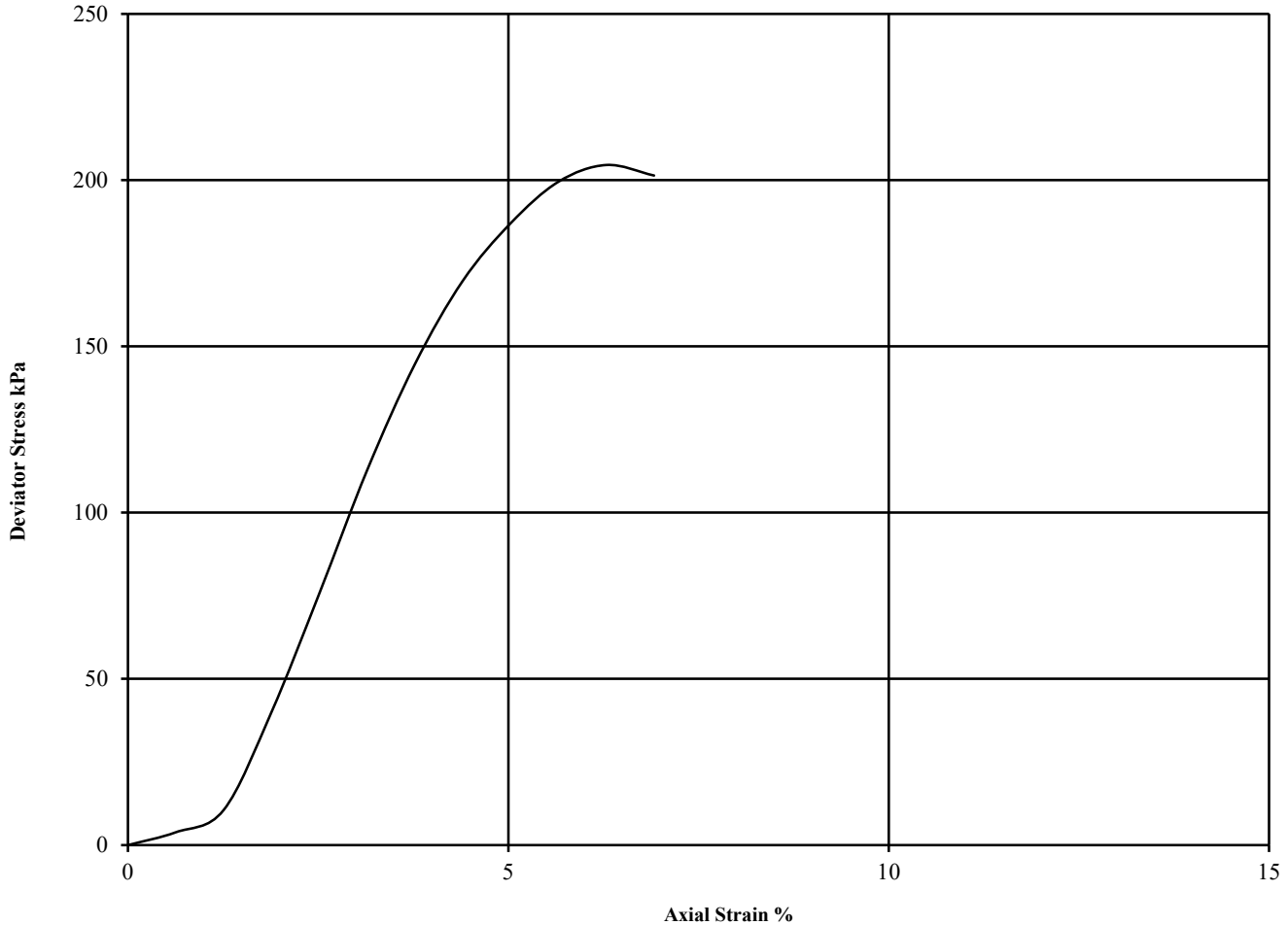
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UNCONSOLIDATED UNDRAINED TRIAXIAL TEST

BS 1377 - Part 2 : 2022 : Clause 28 in accordance with BS EN ISO 17892 - 8 : 2018

Hole Number: BH24-06 Top Depth (m): 6.00
 Sample Number 24 Base Depth (m): 6.45
 Sample Type U



Diameter (mm):		105		Height (mm):		167		Test:	UU Single Stage	Remarks:
Specimen	Water Content (%)	Bulk Density (Mg/m3)	Dry Density (Mg/m3)	Cell Pressure (kPa)	Corr. Max. Deviator Stress (kPa)	Shear Strength Cu (kPa)	Failure Strain (%)		Undisturbed Sample Sample taken from top of tube Rate of strain = 1.1 %/min See summary of soil descriptions	
1	23.8	1.98	1.60	175	205	102	5.7	Plastic		



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Contract No:

PSL24/6955

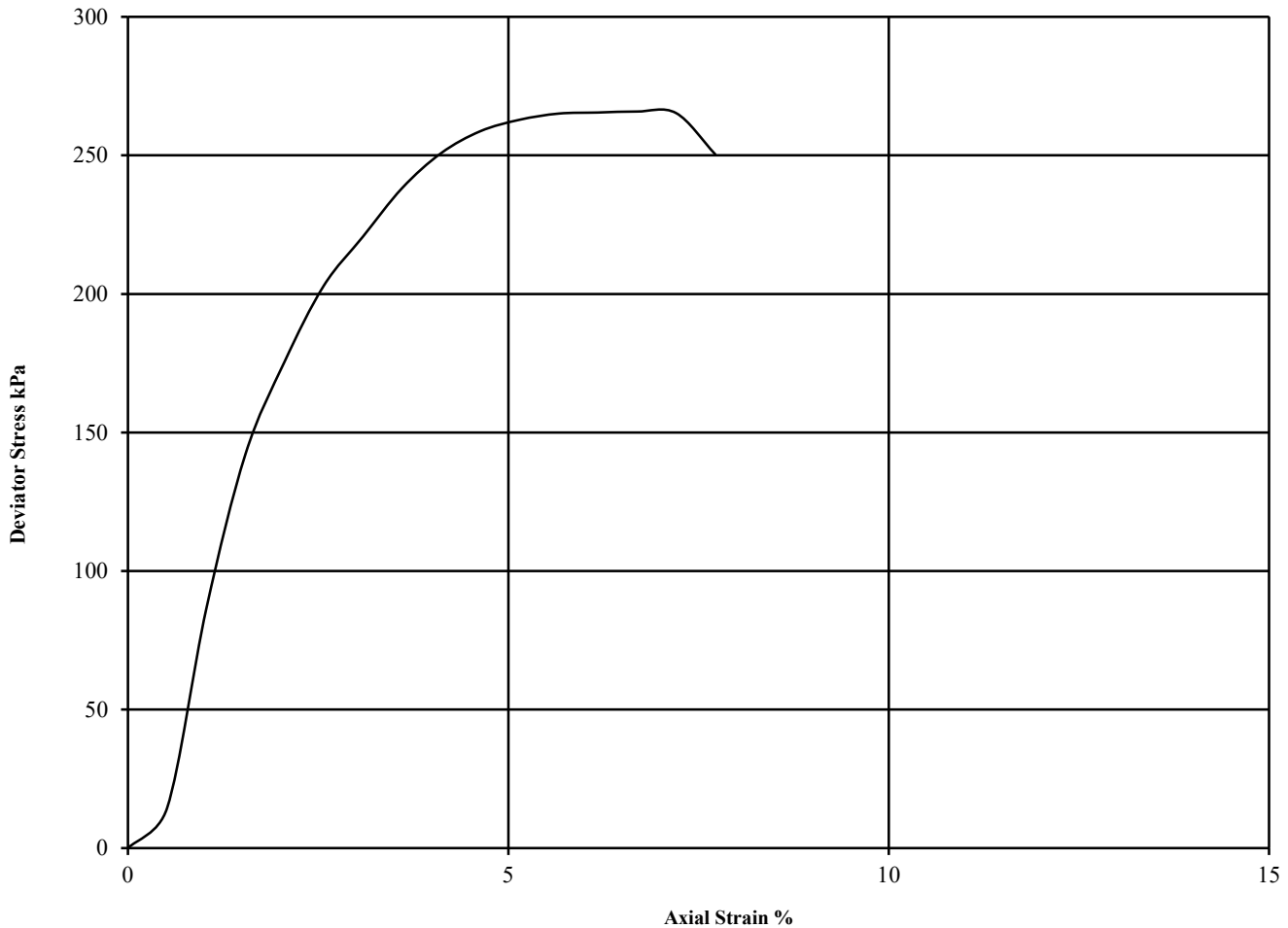
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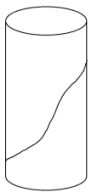
24/3980

UNCONSOLIDATED UNDRAINED TRIAXIAL TEST

BS 1377 - Part 2 : 2022 : Clause 28 in accordance with BS EN ISO 17892 - 8 : 2018

Hole Number: **BH24-06** Top Depth (m): **12.00**
 Sample Number **34** Base Depth (m): **12.45**
 Sample Type **U**



Diameter (mm):		105		Height (mm):		204		Test:	UU Single Stage	Remarks:
Specimen	Water Content (%)	Bulk Density (Mg/m3)	Dry Density (Mg/m3)	Cell Pressure (kPa)	Corr. Max. Deviator Stress (kPa)	Shear Strength Cu (kPa)	Failure Strain (%)		Undisturbed Sample Sample taken from top of tube Rate of strain = 0.9 %/min See summary of soil descriptions	
1	24.4	2.00	1.60	365	266	133	6.2	Plastic		



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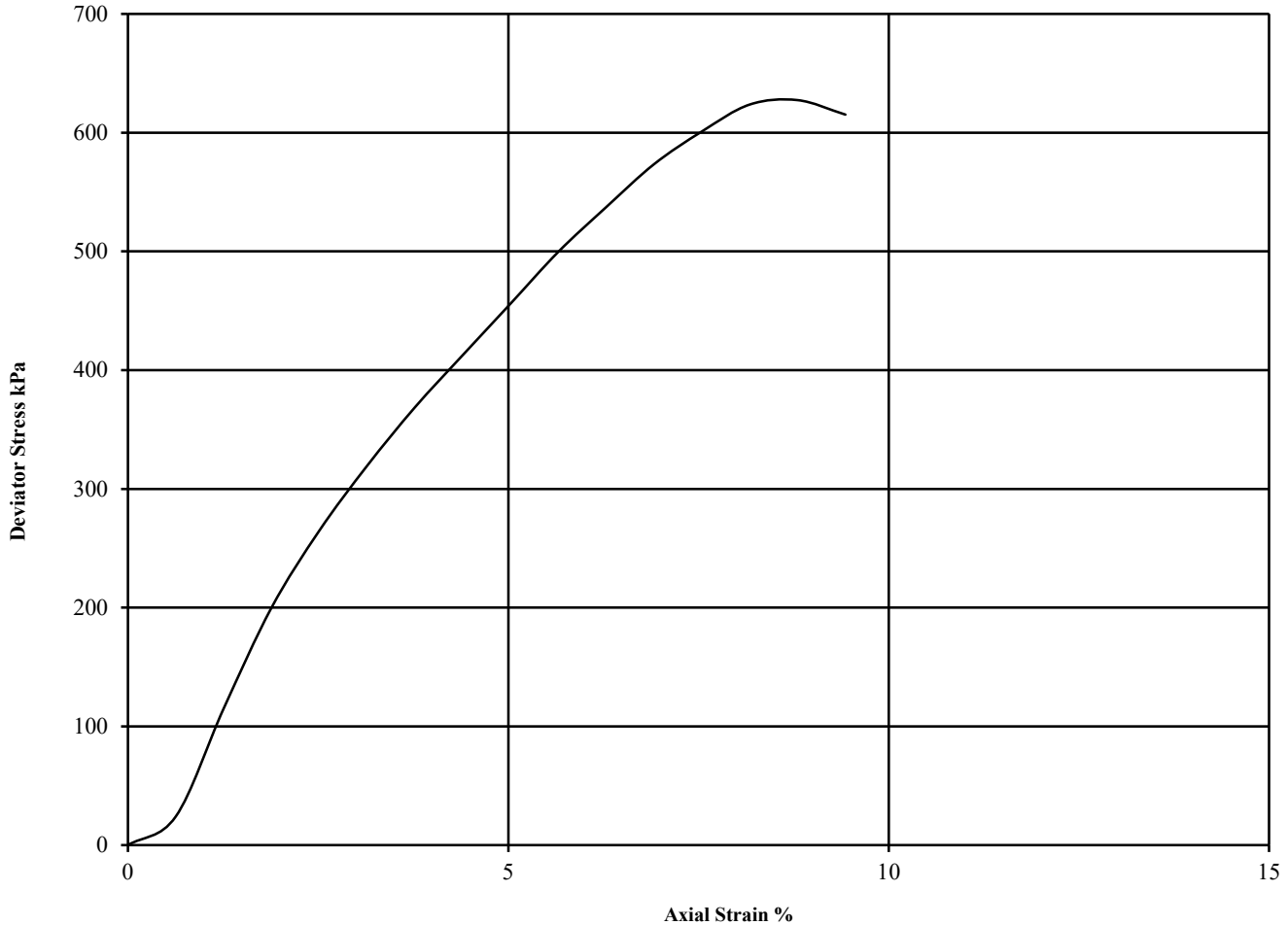
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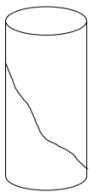
24/3980

UNCONSOLIDATED UNDRAINED TRIAXIAL TEST

BS 1377 - Part 2 : 2022 : Clause 28 in accordance with BS EN ISO 17892 - 8 : 2018

Hole Number: BH24-06 Top Depth (m): 18.00
 Sample Number 43 Base Depth (m): 18.45
 Sample Type U



Diameter (mm):		105		Height (mm):		167		Test:	UU Single Stage	Remarks:
Specimen	Water Content (%)	Bulk Density (Mg/m3)	Dry Density (Mg/m3)	Cell Pressure (kPa)	Corr. Max. Deviator Stress (kPa)	Shear Strength Cu (kPa)	Failure Strain (%)		Undisturbed Sample Sample taken from top of tube Rate of strain = 1.1 %/min See summary of soil descriptions	
1	24.3	2.00	1.61	525	627	314	8.2	Plastic		



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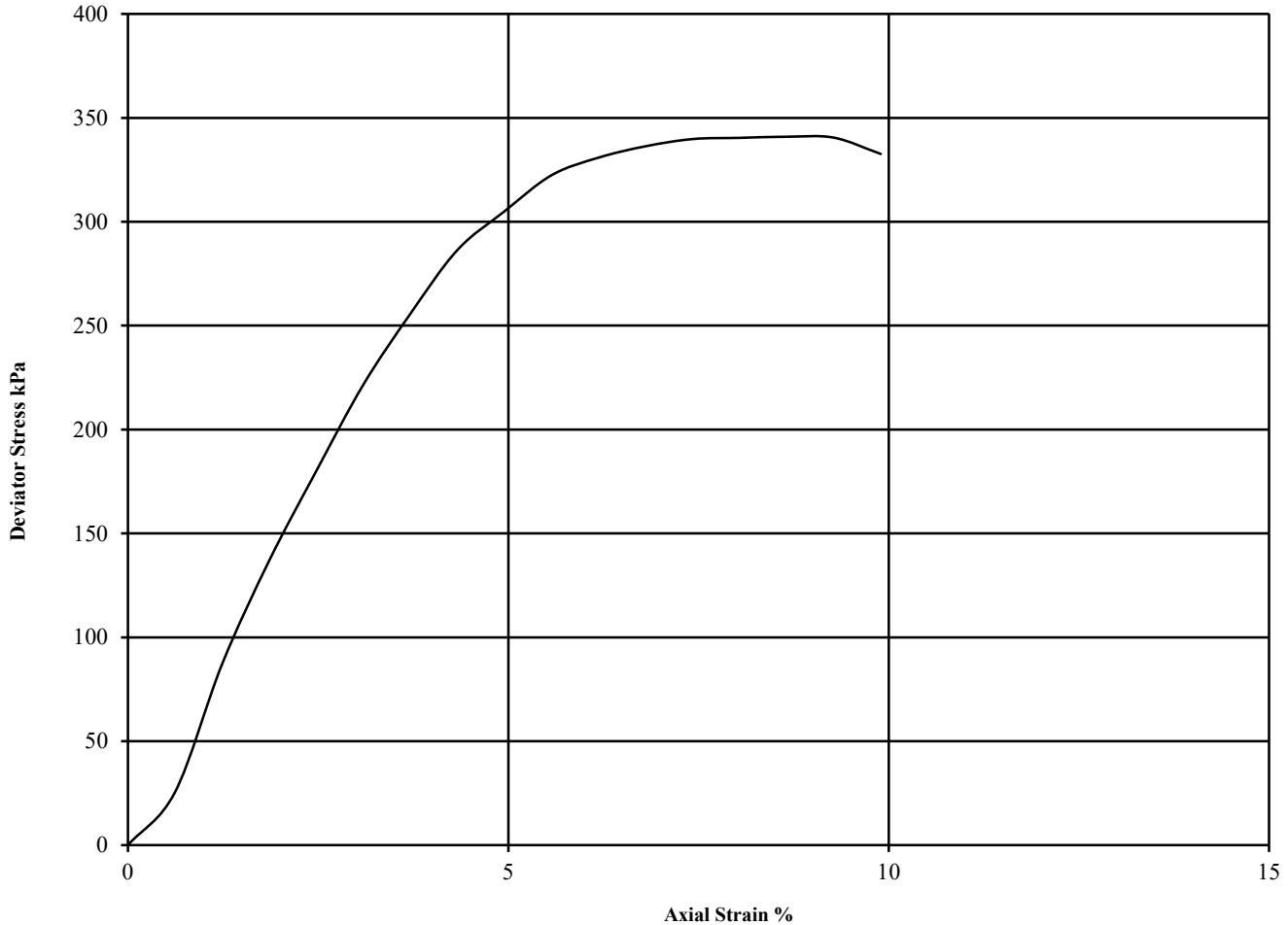
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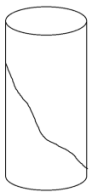
Top Depth (m): 4.50

Sample Number 6

Base Depth (m): 4.95

Sample Type U



Diameter (mm):		102		Height (mm):		165		Test:	UU Single Stage	Remarks:
Specimen	Water Content (%)	Bulk Density (Mg/m3)	Dry Density (Mg/m3)	Cell Pressure (kPa)	Corr. Max. Deviator Stress (kPa)	Shear Strength Cu (kPa)	Failure Strain (%)		Undisturbed Sample Sample taken from top of tube Rate of strain = 1.2 %/min See summary of soil descriptions	
1	23.3	2.16	1.76	180	341	170	8.0	Brittle		



Thorney Lane Phase 1 Due Diligence

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PSL24/7022

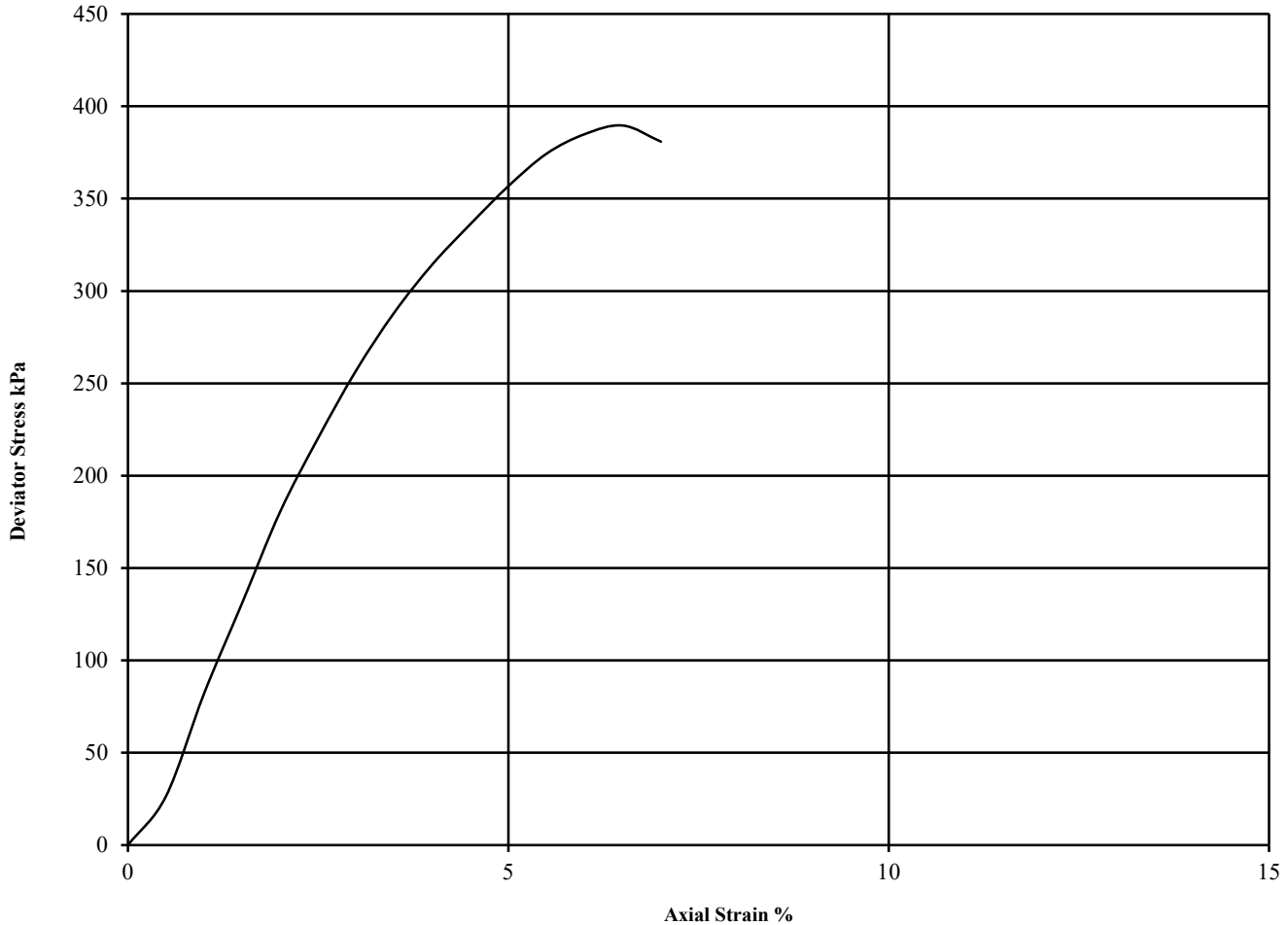
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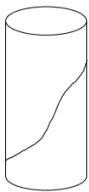
24/3980

UNCONSOLIDATED UNDRAINED TRIAXIAL TEST

BS 1377 - Part 2 : 2022 : Clause 28 in accordance with BS EN ISO 17892 - 8 : 2018

Hole Number: BH24-07 Top Depth (m): 6.00
 Sample Number 9 Base Depth (m): 6.45
 Sample Type U



Diameter (mm):		102		Height (mm):		204		Test:	UU Single Stage	Remarks:
Specimen	Water Content (%)	Bulk Density (Mg/m3)	Dry Density (Mg/m3)	Cell Pressure (kPa)	Corr. Max. Deviator Stress (kPa)	Shear Strength Cu (kPa)	Failure Strain (%)		Undisturbed Sample Sample taken from top of tube Rate of strain = 0.9 %/min See summary of soil descriptions	
1	24.0	2.16	1.74	230	390	195	6.0	Brittle		



Thorney Lane Phase 1 Due Diligence

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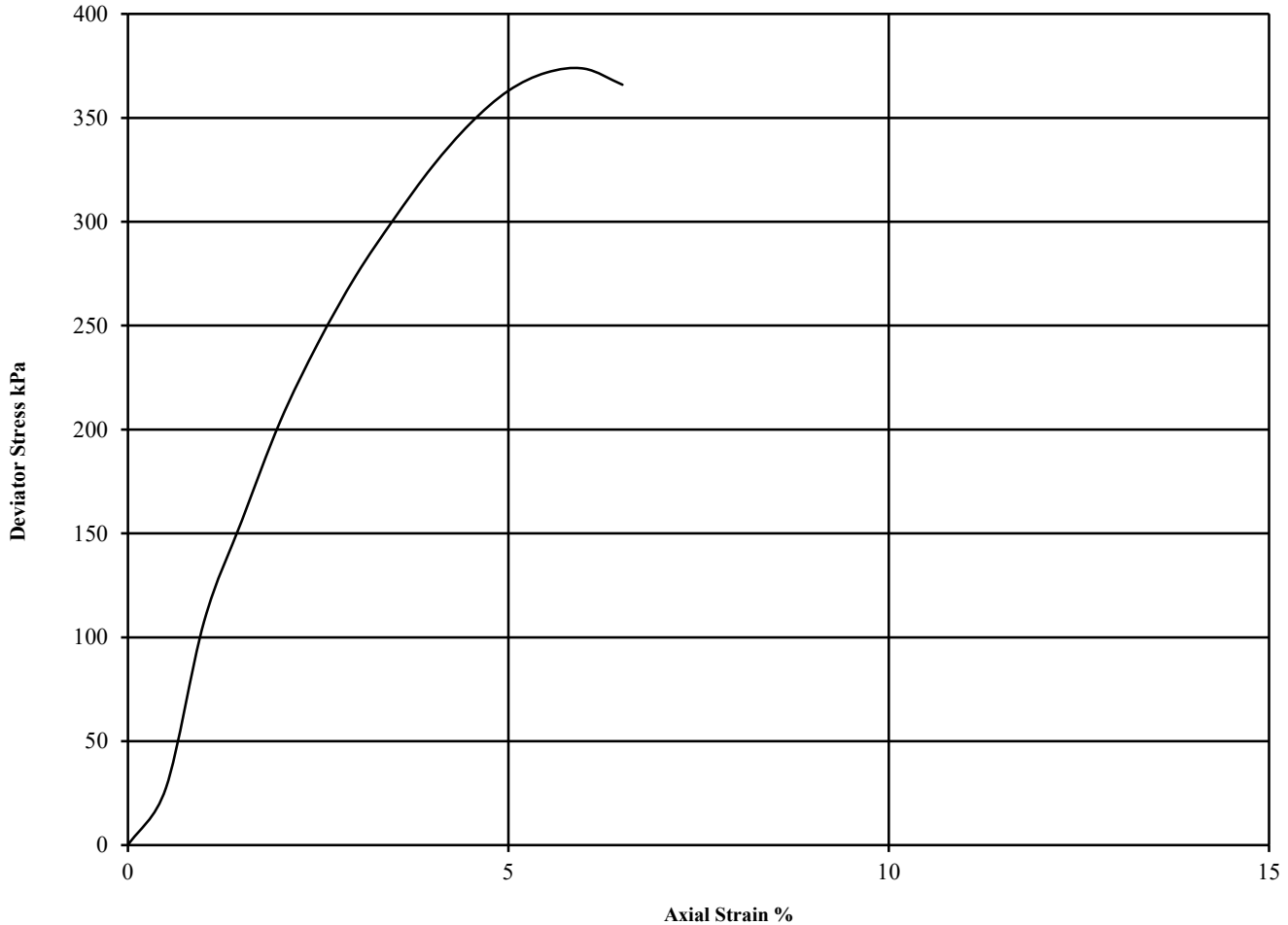
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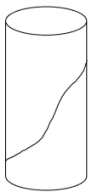
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UNCONSOLIDATED UNDRAINED TRIAXIAL TEST

BS 1377 - Part 2 : 2022 : Clause 28 in accordance with BS EN ISO 17892 - 8 : 2018

Hole Number: **BH24-07** Top Depth (m): **7.50**
 Sample Number **14** Base Depth (m): **7.95**
 Sample Type **U**



Diameter (mm):		102		Height (mm):		204		Test:	UU Single Stage	Remarks:
Specimen	Water Content (%)	Bulk Density (Mg/m3)	Dry Density (Mg/m3)	Cell Pressure (kPa)	Corr. Max. Deviator Stress (kPa)	Shear Strength Cu (kPa)	Failure Strain (%)		Undisturbed Sample Sample taken from top of tube Rate of strain = 0.9 %/min See summary of soil descriptions	
1	24.9	2.14	1.72	270	374	187	5.5	Brittle		



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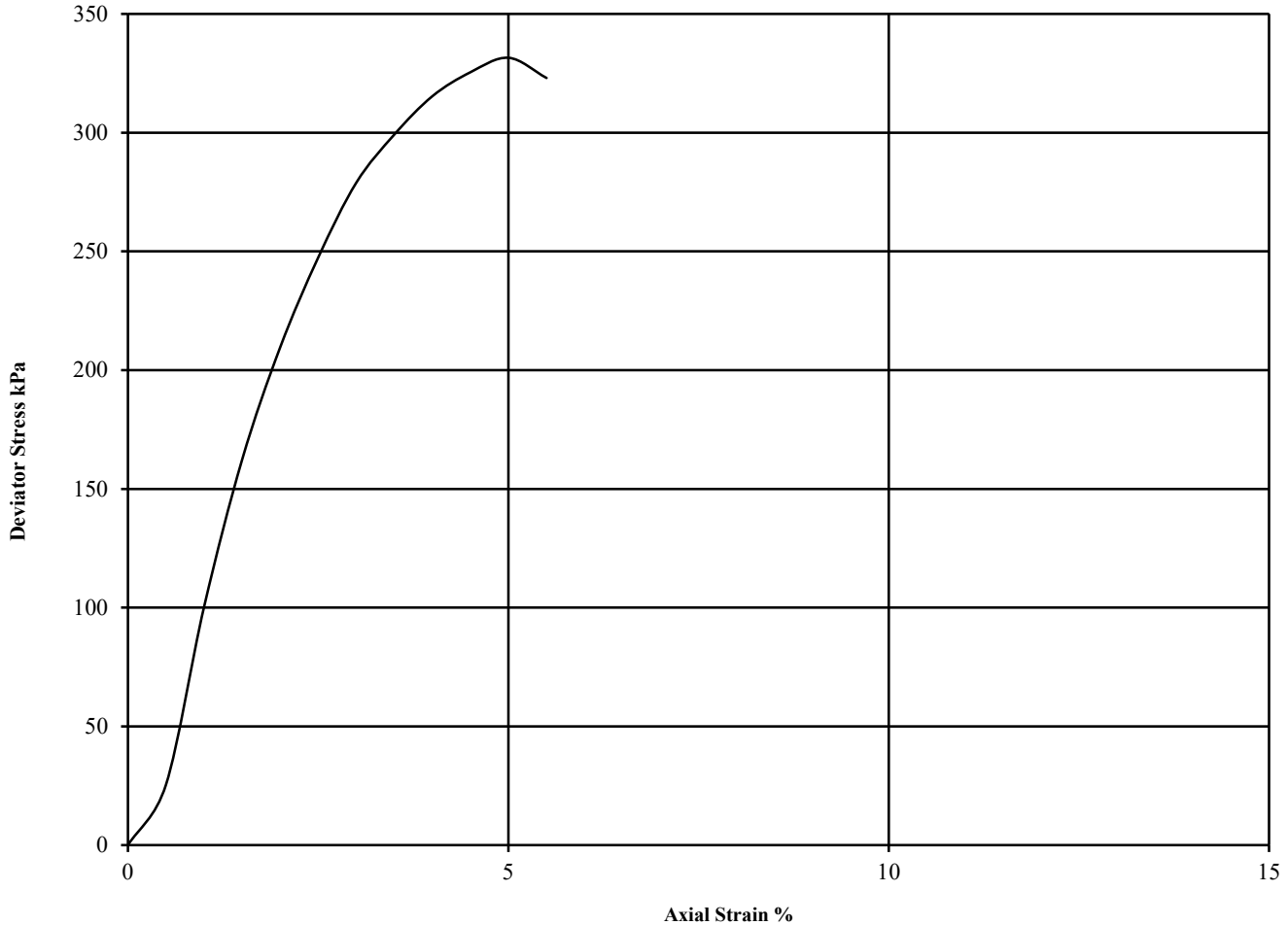
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24/3980

UNCONSOLIDATED UNDRAINED TRIAXIAL TEST

BS 1377 - Part 2 : 2022 : Clause 28 in accordance with BS EN ISO 17892 - 8 : 2018

Hole Number:	BH24-07	Top Depth (m):	9.00
Sample Number	18	Base Depth (m):	9.45
Sample Type	U		



Diameter (mm):		Height (mm):			Test:	UU Single Stage		Remarks:
Specimen	Water Content (%)	Bulk Density (Mg/m3)	Dry Density (Mg/m3)	Cell Pressure (kPa)	Corr. Max. Deviator Stress (kPa)	Shear Strength Cu (kPa)	Failure Strain (%)	Undisturbed Sample Sample taken from top of tube Rate of strain = 0.9 %/min See summary of soil descriptions
1	25.0	2.12	1.70	310	332	166	4.5	



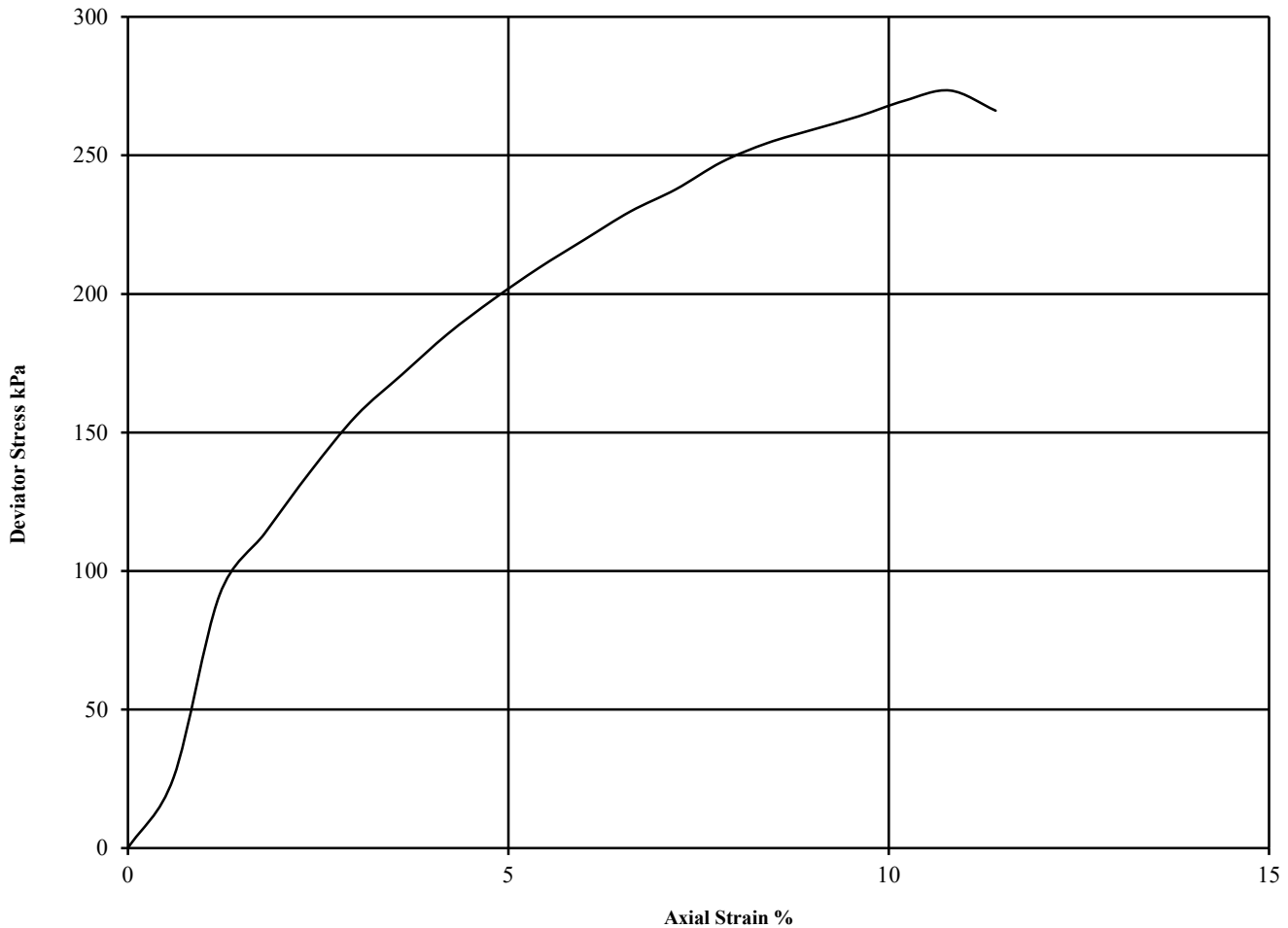
Thorney Lane Phase 1 Due Diligence

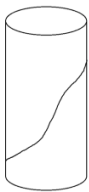
Contract No:
PSL24/7022
Client Ref:
24/3980

UNCONSOLIDATED UNDRAINED TRIAXIAL TEST

BS 1377 - Part 2 : 2022 : Clause 28 in accordance with BS EN ISO 17892 - 8 : 2018

Hole Number: BH24-07 Top Depth (m): 12.00
 Sample Number 25 Base Depth (m): 12.45
 Sample Type U



Diameter (mm):		102		Height (mm):		170		Test:	UU Single Stage	Remarks:
Specimen	Water Content (%)	Bulk Density (Mg/m3)	Dry Density (Mg/m3)	Cell Pressure (kPa)	Corr. Max. Deviator Stress (kPa)	Shear Strength Cu (kPa)	Failure Strain (%)		Undisturbed Sample Sample taken from top of tube Rate of strain = 1.1 %/min See summary of soil descriptions	
1	25.8	2.02	1.61	390	273	137	10.2	Brittle		



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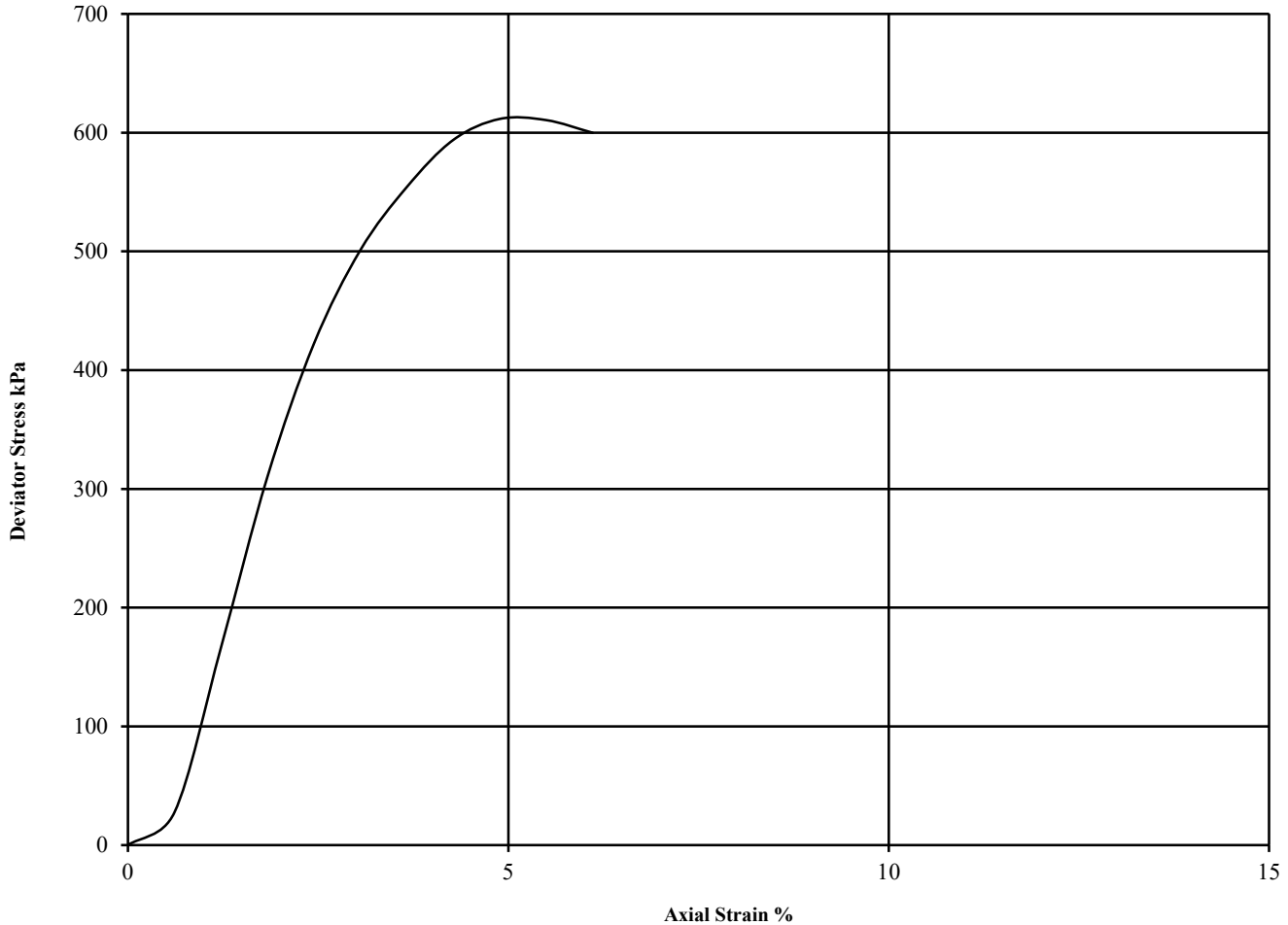
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UNCONSOLIDATED UNDRAINED TRIAXIAL TEST

BS 1377 - Part 2 : 2022 : Clause 28 in accordance with BS EN ISO 17892 - 8 : 2018

Hole Number:	BH24-07	Top Depth (m):	13.50
Sample Number	28	Base Depth (m):	13.95
Sample Type	U		



Diameter (mm):		102		Height (mm):		167		Test:	UU Single Stage	Remarks:
Specimen	Water Content (%)	Bulk Density (Mg/m3)	Dry Density (Mg/m3)	Cell Pressure (kPa)	Corr. Max. Deviator Stress (kPa)	Shear Strength Cu (kPa)	Failure Strain (%)		Undisturbed Sample Sample taken from top of tube Rate of strain = 1.1 %/min See summary of soil descriptions	
1	24.6	2.10	1.68	430	612	306	4.3			Brittle



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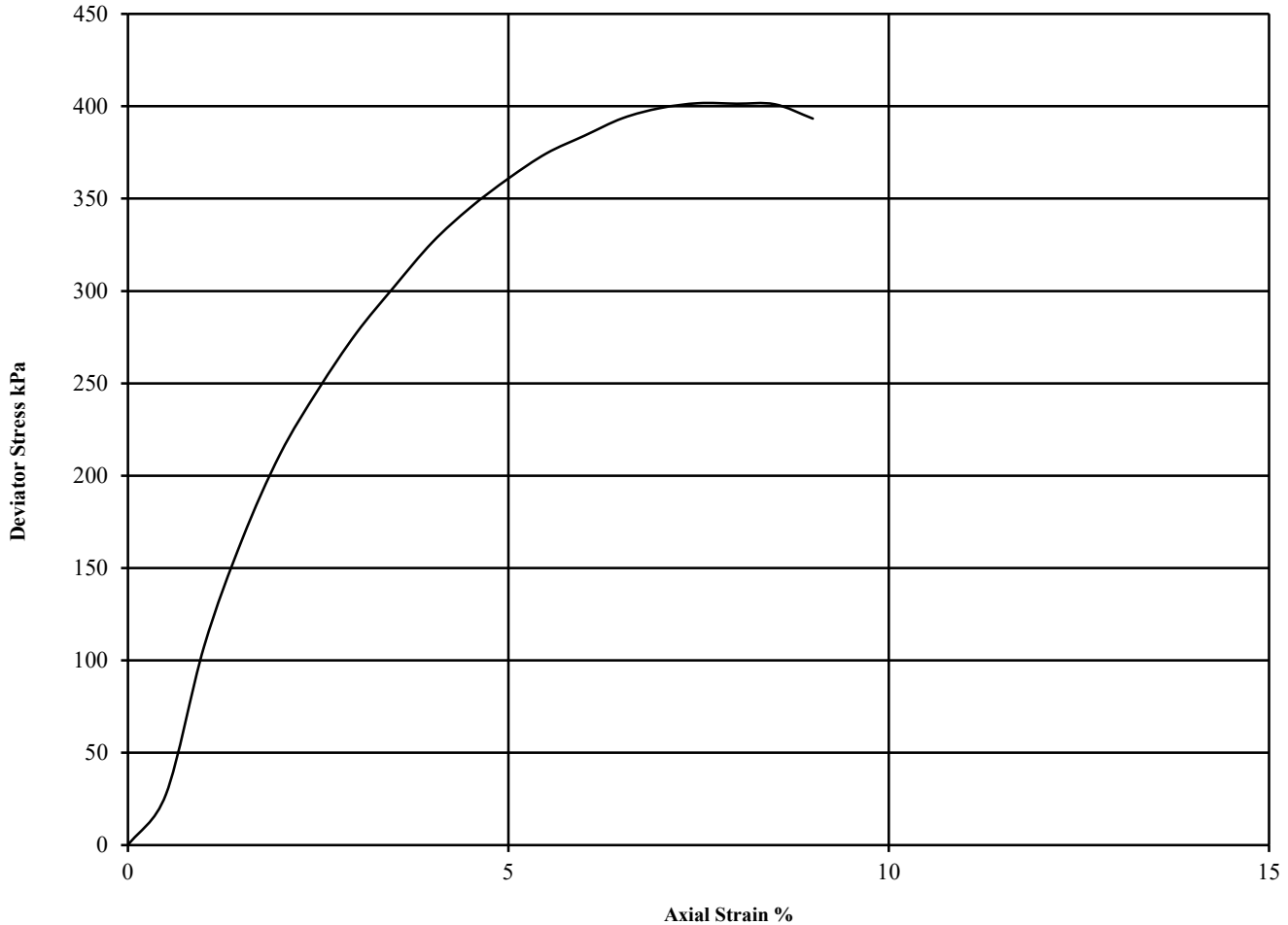
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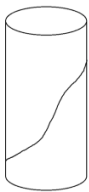
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UNCONSOLIDATED UNDRAINED TRIAXIAL TEST

BS 1377 - Part 2 : 2022 : Clause 28 in accordance with BS EN ISO 17892 - 8 : 2018

Hole Number:	BH24-07	Top Depth (m):	15.00
Sample Number	30	Base Depth (m):	15.45
Sample Type	U		



Diameter (mm):		102		Height (mm):		204		Test:	UU Single Stage	Remarks:
Specimen	Water Content (%)	Bulk Density (Mg/m3)	Dry Density (Mg/m3)	Cell Pressure (kPa)	Corr. Max. Deviator Stress (kPa)	Shear Strength Cu (kPa)	Failure Strain (%)		Undisturbed Sample Sample taken from top of tube Rate of strain = 0.9 %/min See summary of soil descriptions	
1	26.0	2.10	1.67	470	402	201	7.0	Brittle		



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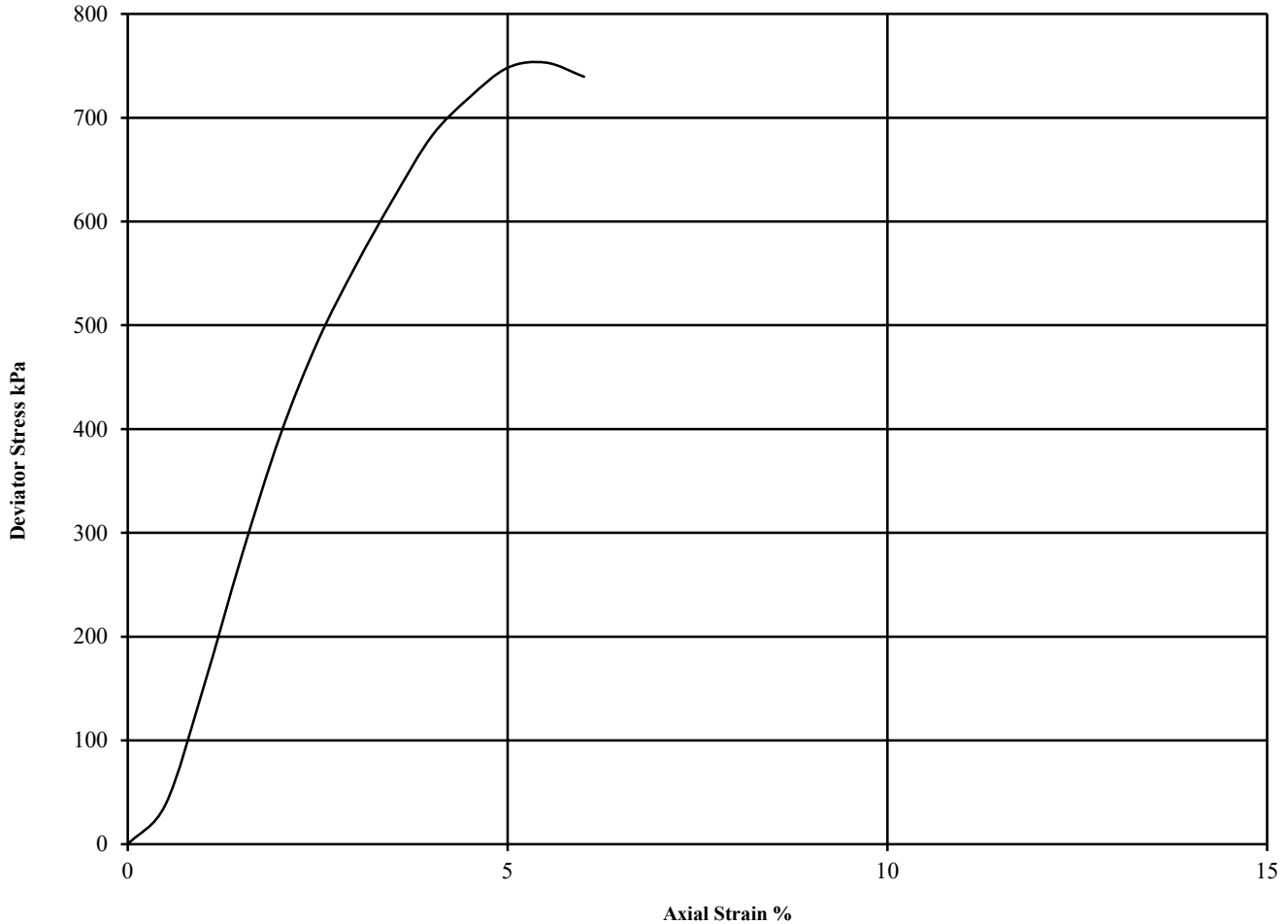
Client Ref:


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UNCONSOLIDATED UNDRAINED TRIAXIAL TEST

BS 1377 - Part 2 : 2022 : Clause 28 in accordance with BS EN ISO 17892 - 8 : 2018

Hole Number:	BH24-07	Top Depth (m):	16.50
Sample Number	34	Base Depth (m):	16.95
Sample Type	U		



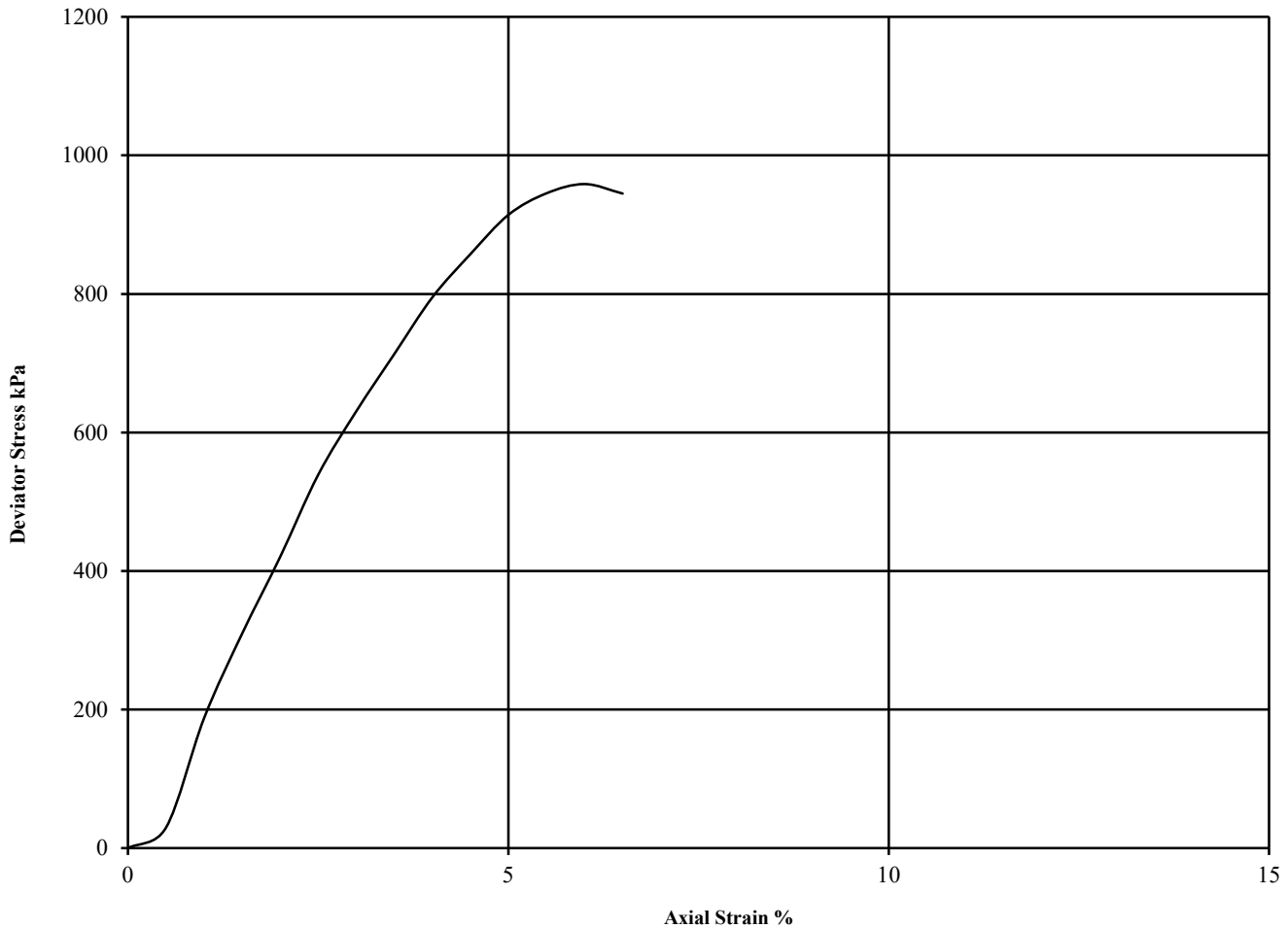
Diameter (mm):		102		Height (mm):		204		Test:	UU Single Stage	Remarks:
Specimen	Water Content (%)	Bulk Density (Mg/m3)	Dry Density (Mg/m3)	Cell Pressure (kPa)	Corr. Max. Deviator Stress (kPa)	Shear Strength Cu (kPa)	Failure Strain (%)		Undisturbed Sample Sample taken from top of tube Rate of strain = 0.9 %/min See summary of soil descriptions	
1	24.9	2.13	1.70	510	753	377	5.0			Brittle

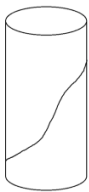
		Thorney Lane Phase 1 Due Diligence	Contract No:
			PSL24/7022
			Client Ref:
			24/3980

UNCONSOLIDATED UNDRAINED TRIAXIAL TEST

BS 1377 - Part 2 : 2022 : Clause 28 in accordance with BS EN ISO 17892 - 8 : 2018

Hole Number: BH24-07 Top Depth (m): 18.00
 Sample Number 38 Base Depth (m): 18.45
 Sample Type U



Diameter (mm):		102		Height (mm):		204		Test:	UU Single Stage	Remarks:
Specimen	Water Content (%)	Bulk Density (Mg/m3)	Dry Density (Mg/m3)	Cell Pressure (kPa)	Corr. Max. Deviator Stress (kPa)	Shear Strength Cu (kPa)	Failure Strain (%)		Undisturbed Sample Sample taken from top of tube Rate of strain = 0.9 %/min See summary of soil descriptions	
1	22.5	2.16	1.76	545	959	479	5.5	Brittle		



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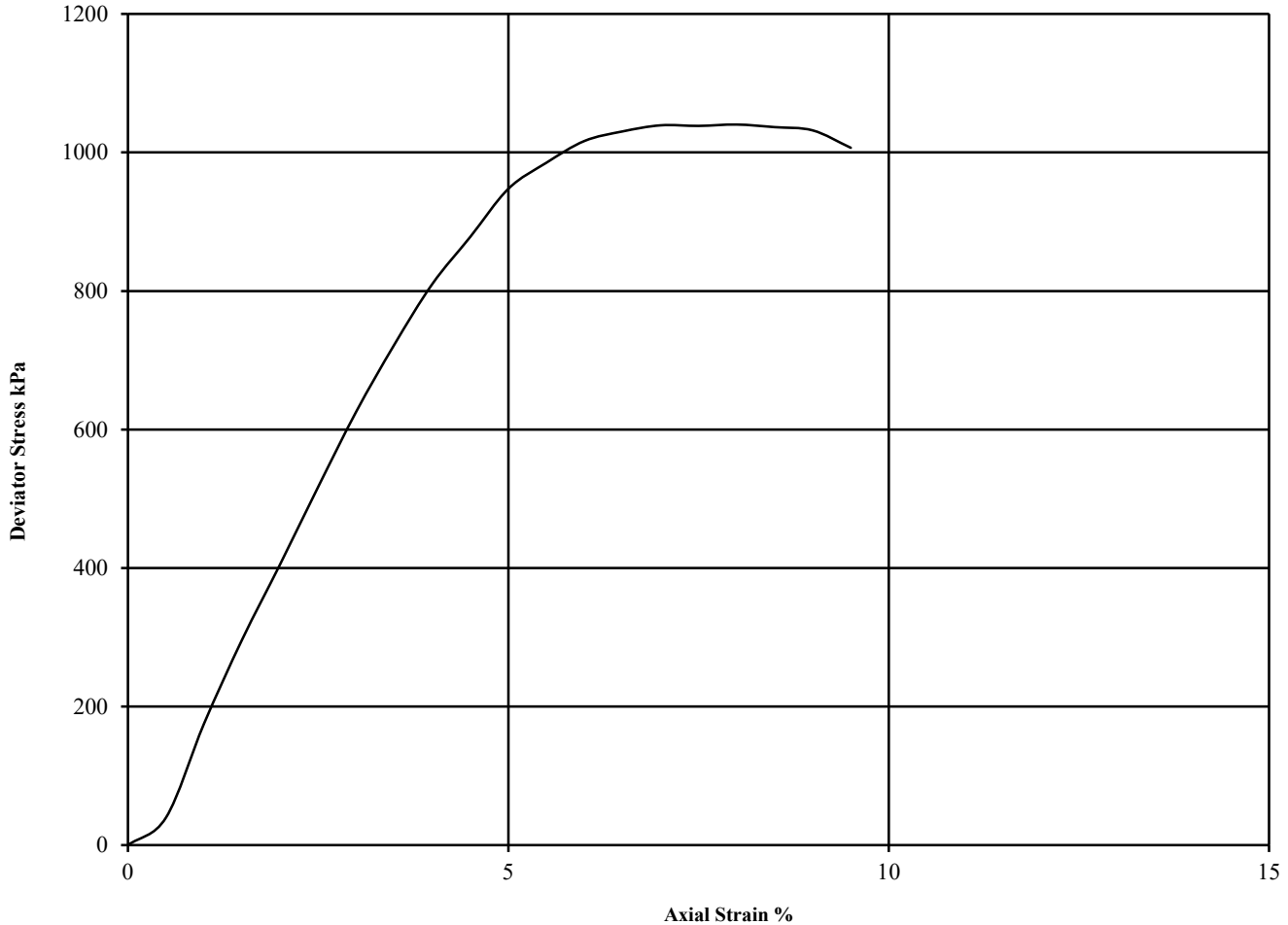
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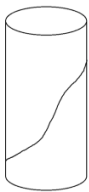
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UNCONSOLIDATED UNDRAINED TRIAXIAL TEST

BS 1377 - Part 2 : 2022 : Clause 28 in accordance with BS EN ISO 17892 - 8 : 2018

Hole Number: BH24-07 Top Depth (m): 19.50
 Sample Number 42 Base Depth (m): 19.95
 Sample Type U



Diameter (mm):		Height (mm):			Test:	UU Single Stage		Remarks:
Specimen	Water Content (%)	Bulk Density (Mg/m3)	Dry Density (Mg/m3)	Cell Pressure (kPa)	Corr. Max. Deviator Stress (kPa)	Shear Strength Cu (kPa)	Failure Strain (%)	 Undisturbed Sample Sample taken from top of tube Rate of strain = 0.9 %/min See summary of soil descriptions
1	23.1	2.17	1.76	585	1040	520	7.5	



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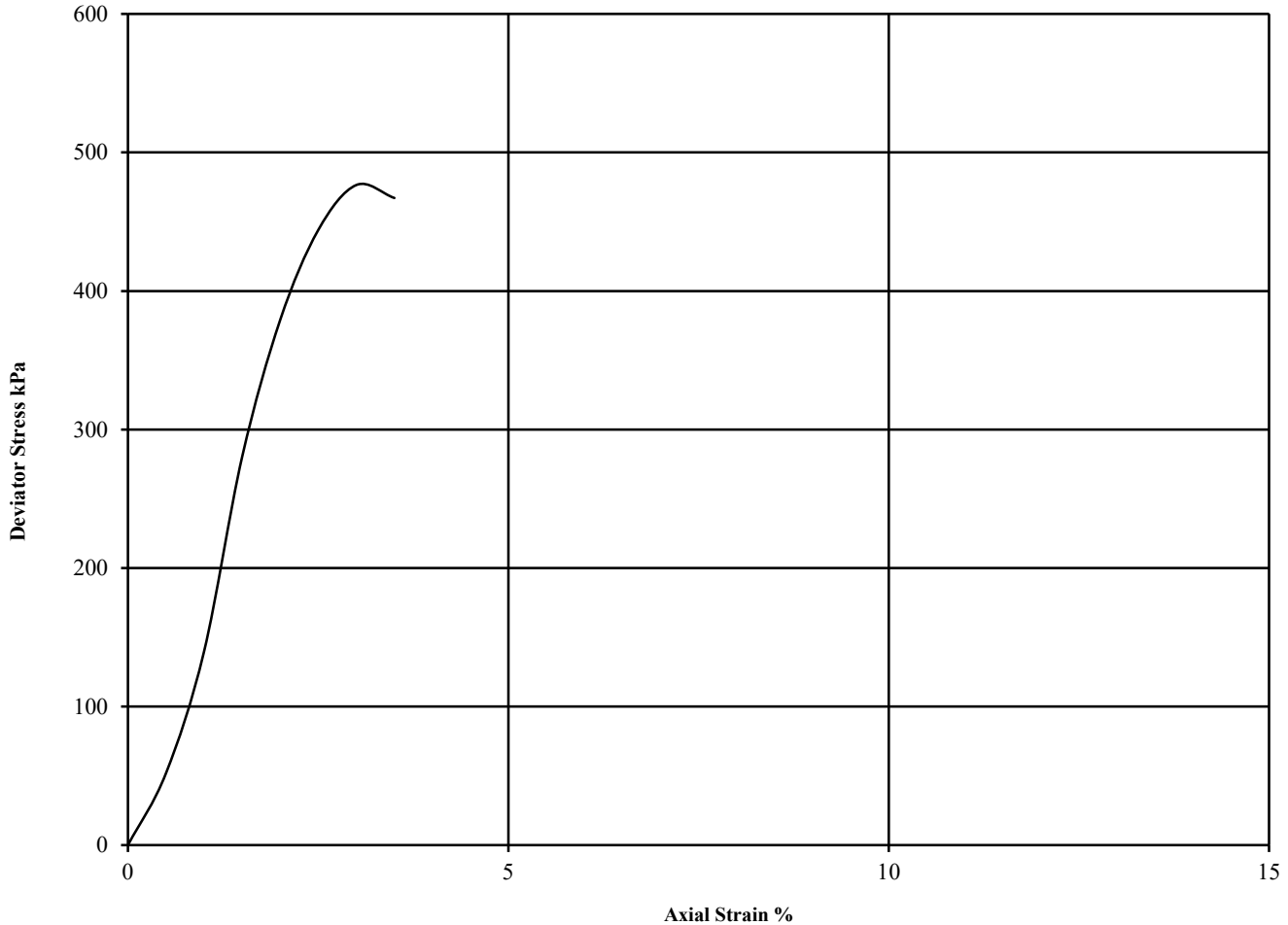
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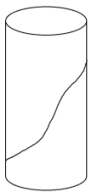
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UNCONSOLIDATED UNDRAINED TRIAXIAL TEST

BS 1377 - Part 2 : 2022 : Clause 28 in accordance with BS EN ISO 17892 - 8 : 2018

Hole Number: BH24-07 Top Depth (m): 21.00
 Sample Number 46 Base Depth (m): 21.45
 Sample Type U



Diameter (mm):		102		Height (mm):		204		Test:	UU Single Stage	Remarks:
Specimen	Water Content (%)	Bulk Density (Mg/m3)	Dry Density (Mg/m3)	Cell Pressure (kPa)	Corr. Max. Deviator Stress (kPa)	Shear Strength Cu (kPa)	Failure Strain (%)		Undisturbed Sample Sample taken from top of tube Rate of strain = 0.9 %/min See summary of soil descriptions	
1	24.0	2.14	1.72	620	476	238	2.5	Brittle		



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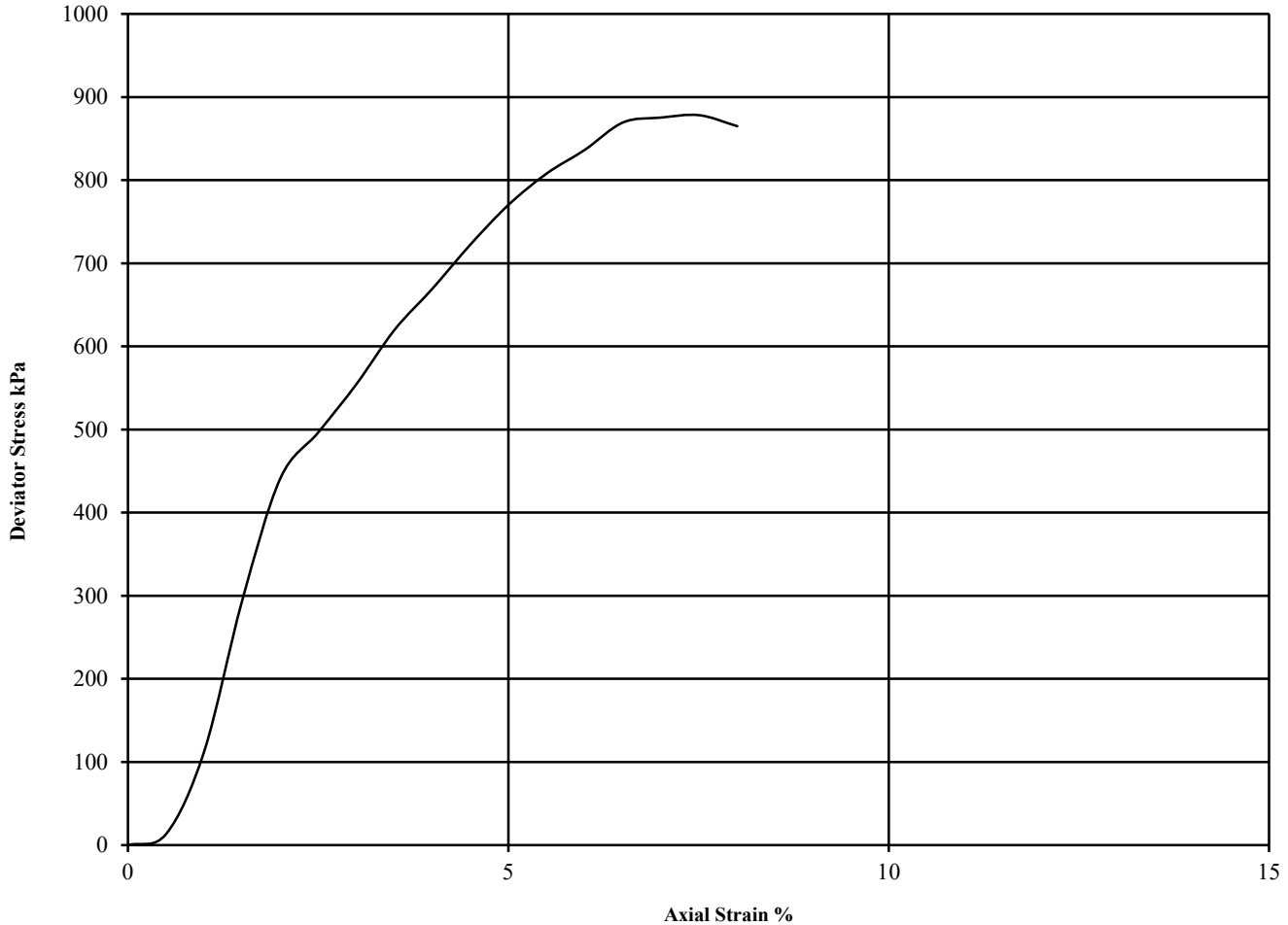
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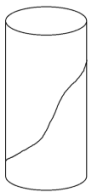
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BS 1377 - Part 2 : 2022 : Clause 28 in accordance with BS EN ISO 17892 - 8 : 2018

Hole Number:	BH24-07	Top Depth (m):	22.50
Sample Number	50	Base Depth (m):	22.95
Sample Type	U		



Diameter (mm):		102			Height (mm):		204		Test:	UU Single Stage	Remarks:
Specimen	Water Content (%)	Bulk Density (Mg/m3)	Dry Density (Mg/m3)	Cell Pressure (kPa)	Corr. Max. Deviator Stress (kPa)	Shear Strength Cu (kPa)	Failure Strain (%)		Undisturbed Sample Sample taken from top of tube Rate of strain = 0.9 %/min See summary of soil descriptions		
1	19.8	2.22	1.85	655	878	439	7.0				



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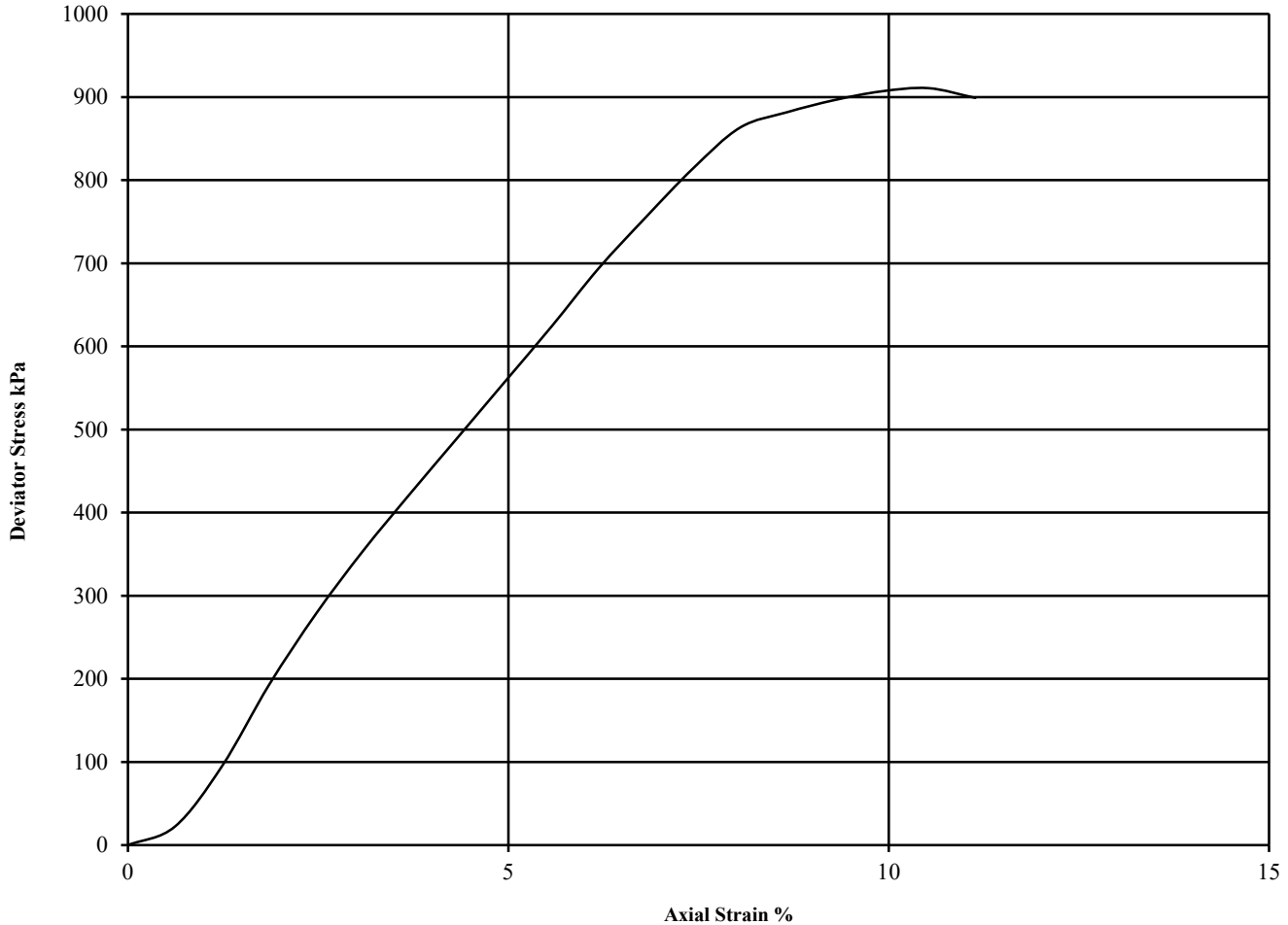
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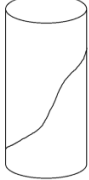
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UNCONSOLIDATED UNDRAINED TRIAXIAL TEST

BS 1377 - Part 2 : 2022 : Clause 28 in accordance with BS EN ISO 17892 - 8 : 2018

Hole Number: BH24-07 Top Depth (m): 24.00
 Sample Number 54 Base Depth (m): 24.45
 Sample Type U



Diameter (mm):		102		Height (mm):		165		Test:	UU Single Stage	Remarks:
Specimen	Water Content (%)	Bulk Density (Mg/m3)	Dry Density (Mg/m3)	Cell Pressure (kPa)	Corr. Max. Deviator Stress (kPa)	Shear Strength Cu (kPa)	Failure Strain (%)		Undisturbed Sample Sample taken from top of tube Rate of strain = 1.2 %/min See summary of soil descriptions	
1	20.7	2.17	1.80	690	911	455	9.9	Brittle		



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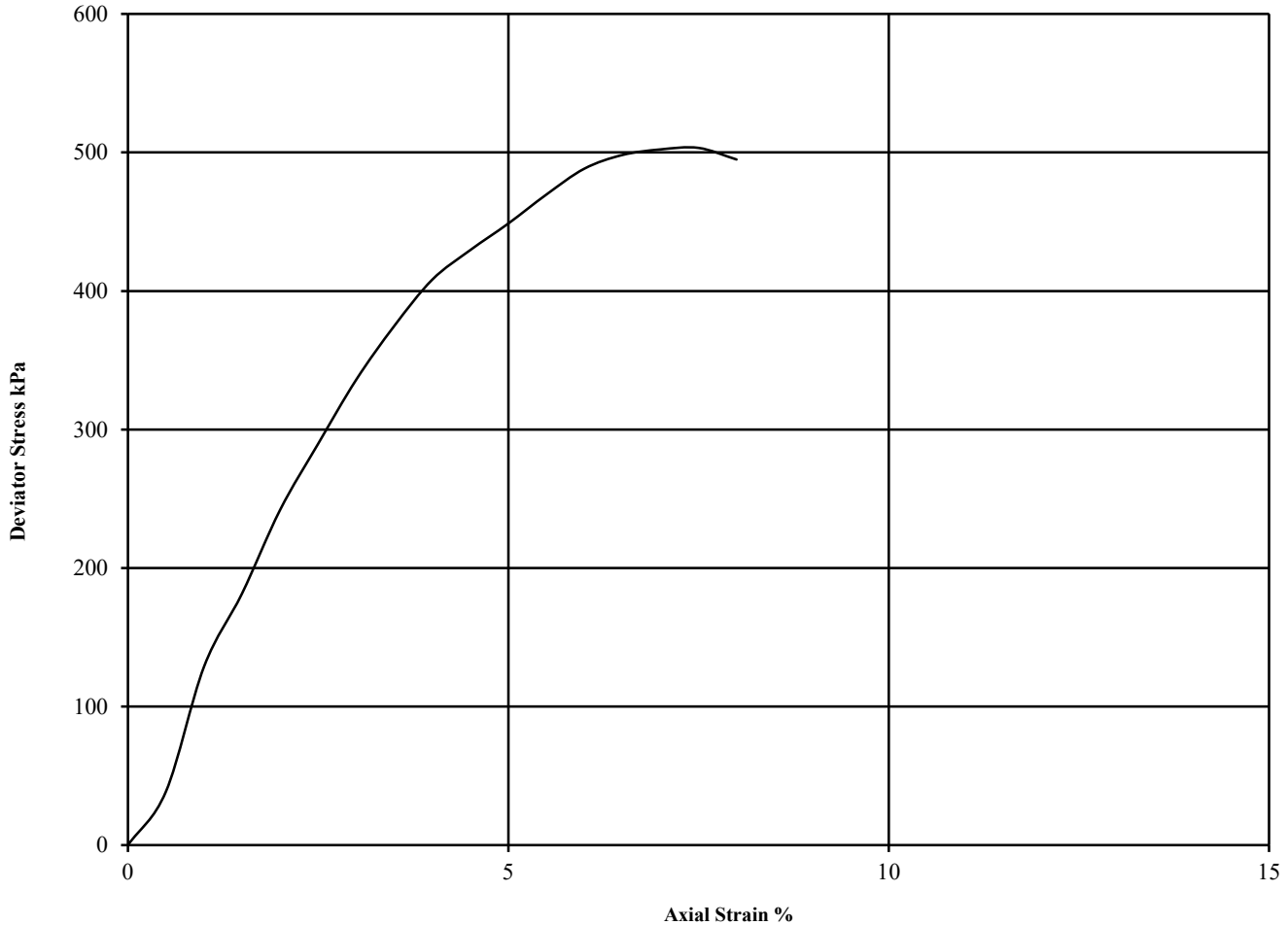
Client Ref:

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UNCONSOLIDATED UNDRAINED TRIAXIAL TEST

BS 1377 - Part 2 : 2022 : Clause 28 in accordance with BS EN ISO 17892 - 8 : 2018

Hole Number:	BH24-07	Top Depth (m):	25.50
Sample Number	58	Base Depth (m):	25.95
Sample Type	U		



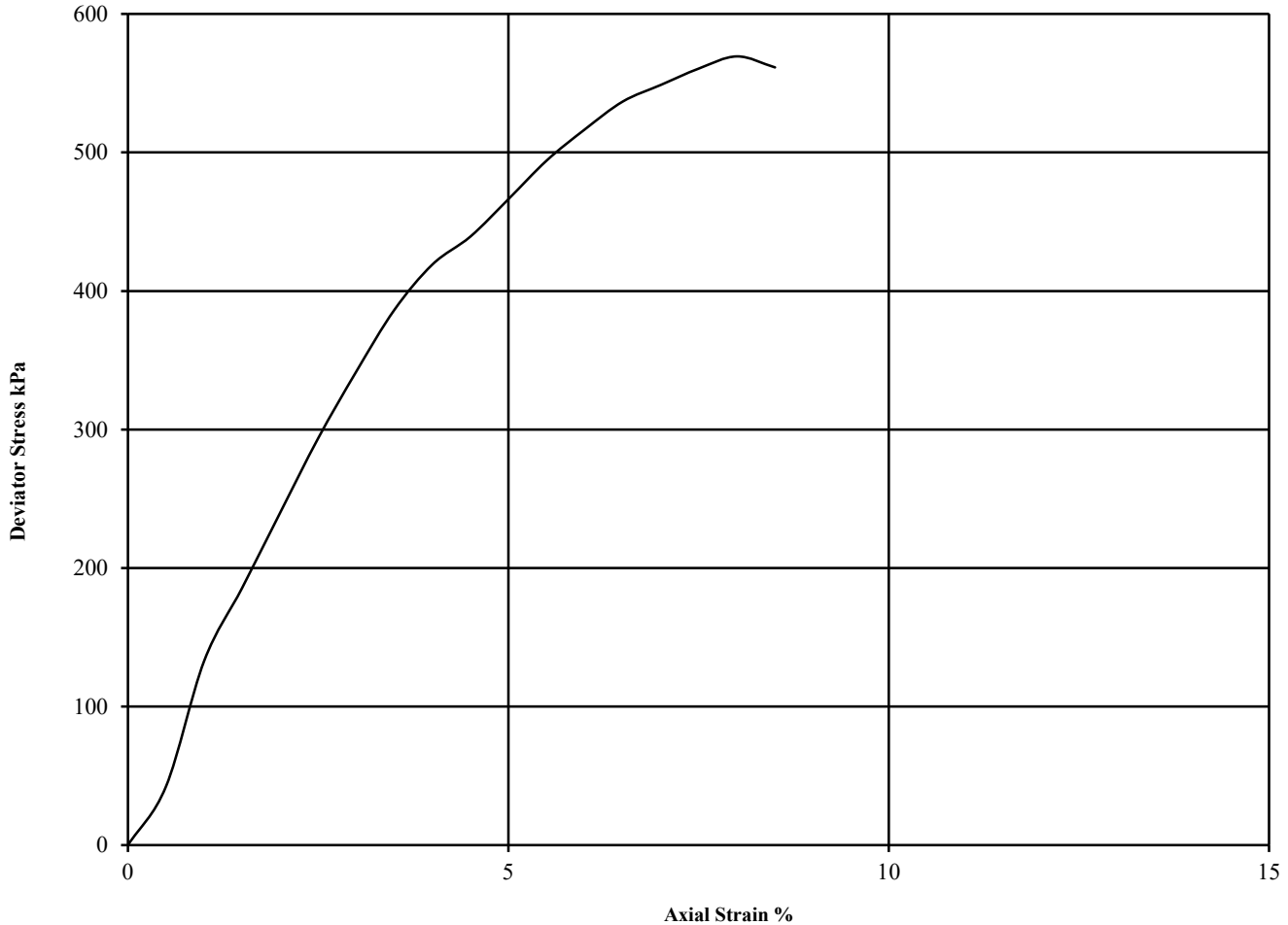
Diameter (mm):		Height (mm):			Test:	UU Single Stage		Remarks:
Specimen	Water Content (%)	Bulk Density (Mg/m3)	Dry Density (Mg/m3)	Cell Pressure (kPa)	Corr. Max. Deviator Stress (kPa)	Shear Strength Cu (kPa)	Failure Strain (%)	Undisturbed Sample Sample taken from top of tube Rate of strain = 0.9 %/min See summary of soil descriptions
1	22.8	2.13	1.73	725	503	252	7.0	

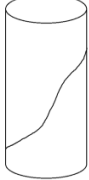
		Thorney Lane Phase 1 Due Diligence	Contract No:
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			24/3980

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BS 1377 - Part 2 : 2022 : Clause 28 in accordance with BS EN ISO 17892 - 8 : 2018

Hole Number: BH24-07 Top Depth (m): 30.00
 Sample Number 67 Base Depth (m): 30.45
 Sample Type U



Diameter (mm):		100			Height (mm):		200		Test:	UU Single Stage	Remarks:
Specimen	Water Content (%)	Bulk Density (Mg/m3)	Dry Density (Mg/m3)	Cell Pressure (kPa)	Corr. Max. Deviator Stress (kPa)	Shear Strength Cu (kPa)	Failure Strain (%)		Undisturbed Sample Sample taken from top of tube Rate of strain = 0.9 %/min See summary of soil descriptions		
1	16.2	2.12	1.83	825	569	285	7.5	Brittle			



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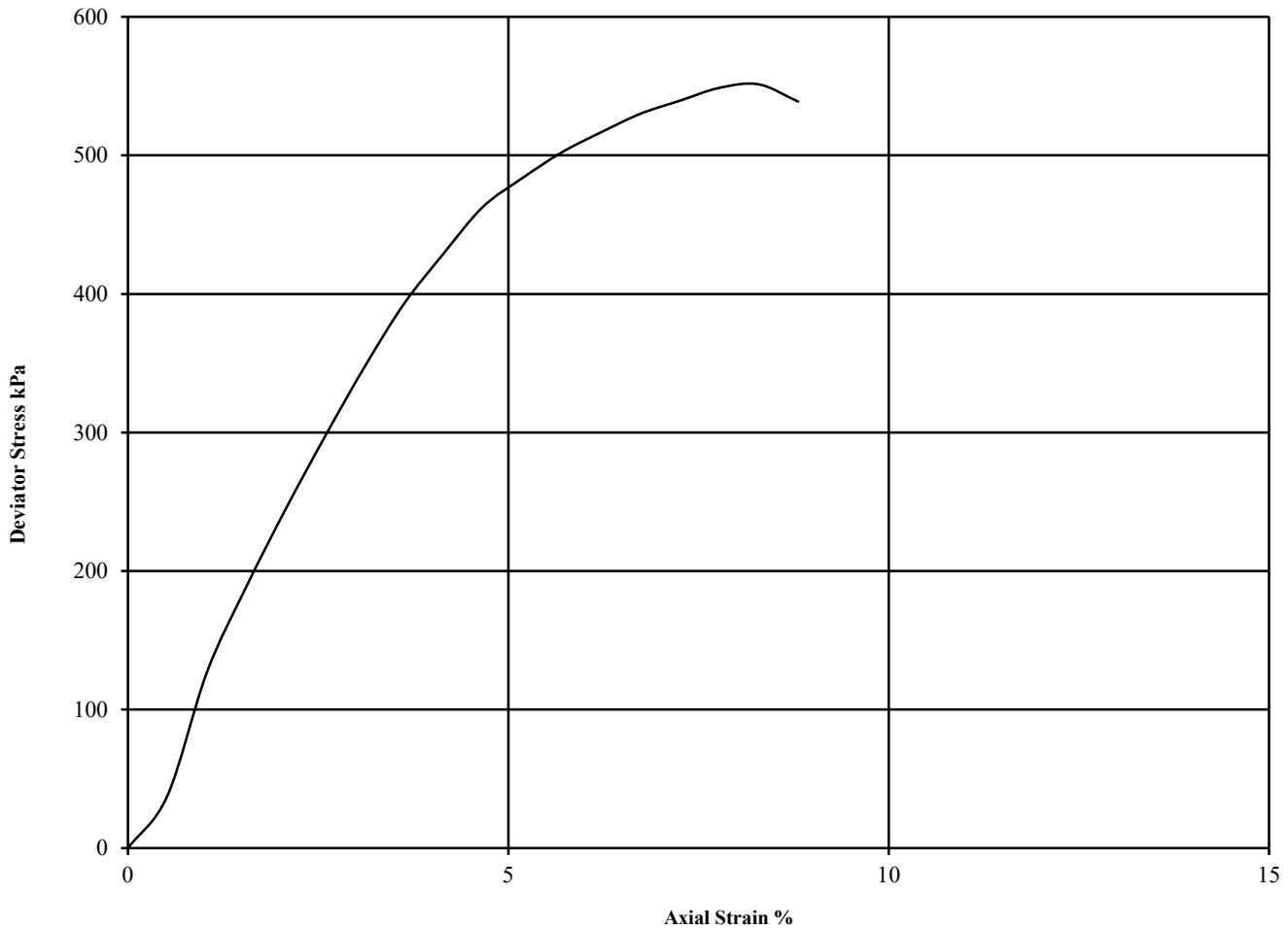
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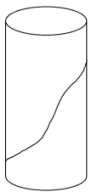
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UNCONSOLIDATED UNDRAINED TRIAXIAL TEST

BS 1377 - Part 2 : 2022 : Clause 28 in accordance with BS EN ISO 17892 - 8 : 2018

Hole Number: BH24-07 Top Depth (m): 31.50
 Sample Number 69 Base Depth (m): 31.95
 Sample Type U



Diameter (mm):		102		Height (mm):		197		Test:	UU Single Stage	Remarks:
Specimen	Water Content (%)	Bulk Density (Mg/m3)	Dry Density (Mg/m3)	Cell Pressure (kPa)	Corr. Max. Deviator Stress (kPa)	Shear Strength Cu (kPa)	Failure Strain (%)		Undisturbed Sample Sample taken from top of tube Rate of strain = 1 %/min See summary of soil descriptions	
1	17.8	2.18	1.85	860	551	276	7.8	Brittle		



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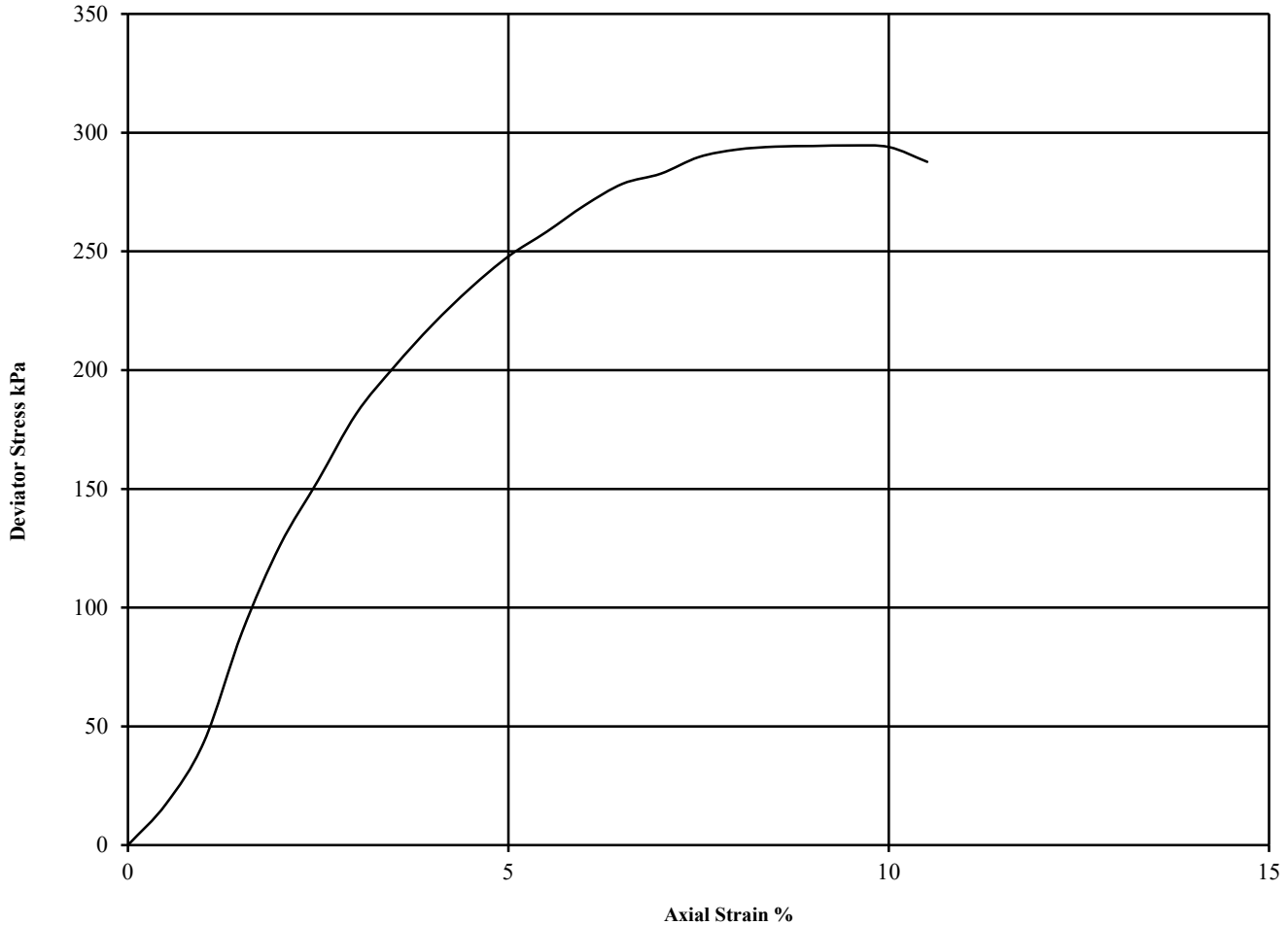
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UNCONSOLIDATED UNDRAINED TRIAXIAL TEST

BS 1377 - Part 2 : 2022 : Clause 28 in accordance with BS EN ISO 17892 - 8 : 2018

Hole Number: **BH24-08** Top Depth (m): **3.50**
 Sample Number **16** Base Depth (m): **3.95**
 Sample Type **U**



Diameter (mm):		102		Height (mm):		204		Test:	UU Single Stage	Remarks:
Specimen	Water Content (%)	Bulk Density (Mg/m3)	Dry Density (Mg/m3)	Cell Pressure (kPa)	Corr. Max. Deviator Stress (kPa)	Shear Strength Cu (kPa)	Failure Strain (%)		Undisturbed Sample Sample taken from top of tube Rate of strain = 0.9 %/min See summary of soil descriptions	
1	23.5	2.13	1.73	140	295	147	9.0			Brittle



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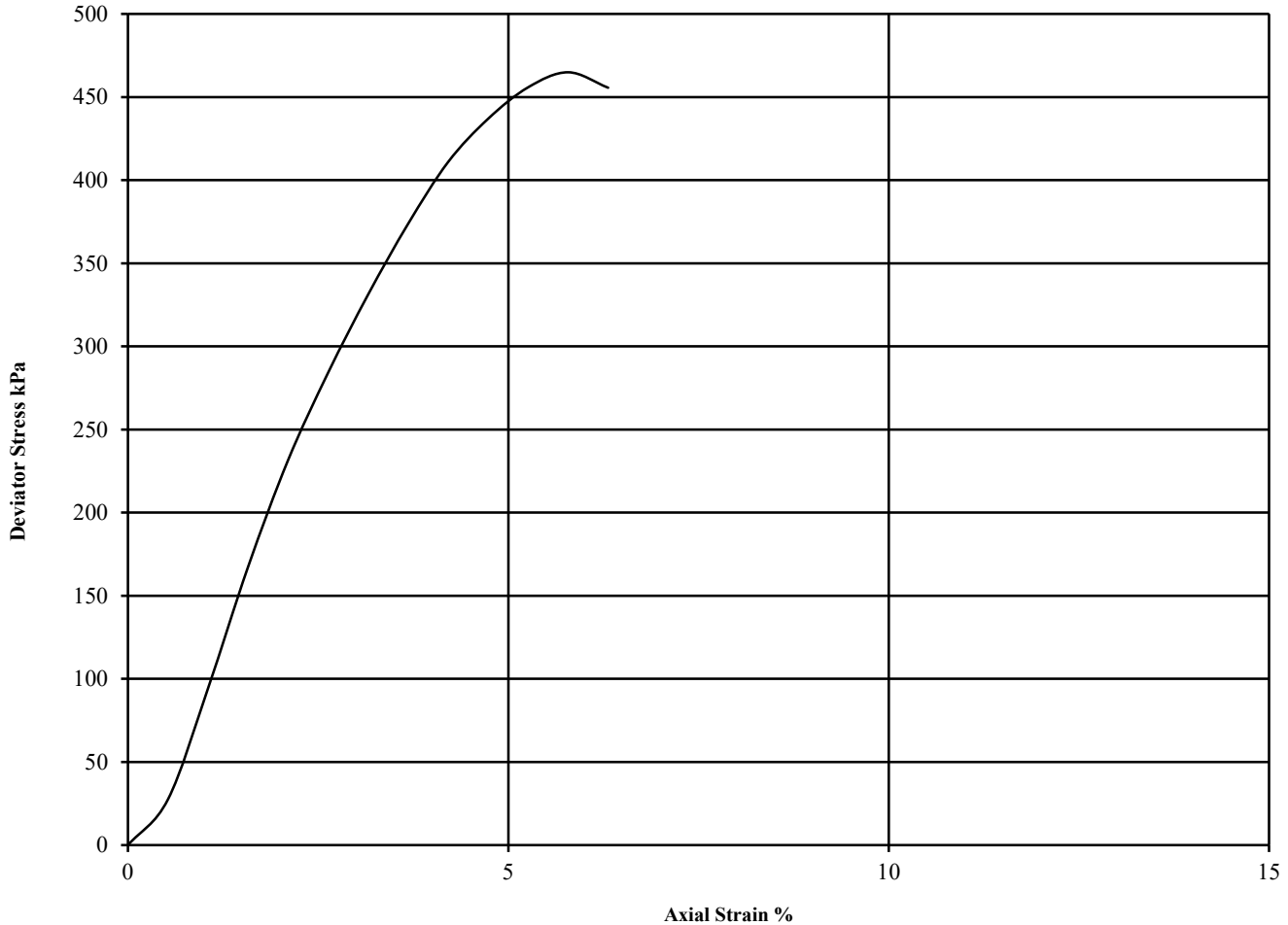
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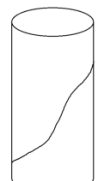
24/3980

UNCONSOLIDATED UNDRAINED TRIAXIAL TEST

BS 1377 - Part 2 : 2022 : Clause 28 in accordance with BS EN ISO 17892 - 8 : 2018

Hole Number: **BH24-08** Top Depth (m): **6.00**
 Sample Number **18** Base Depth (m): **6.45**
 Sample Type **U**



Diameter (mm):		102		Height (mm):		194		Test:	UU Single Stage	Remarks:
Specimen	Water Content (%)	Bulk Density (Mg/m3)	Dry Density (Mg/m3)	Cell Pressure (kPa)	Corr. Max. Deviator Stress (kPa)	Shear Strength Cu (kPa)	Failure Strain (%)		Undisturbed Sample Sample taken from top of tube Rate of strain = 1 %/min See summary of soil descriptions	
1	22.5	2.13	1.74	230	465	232	5.3			Brittle



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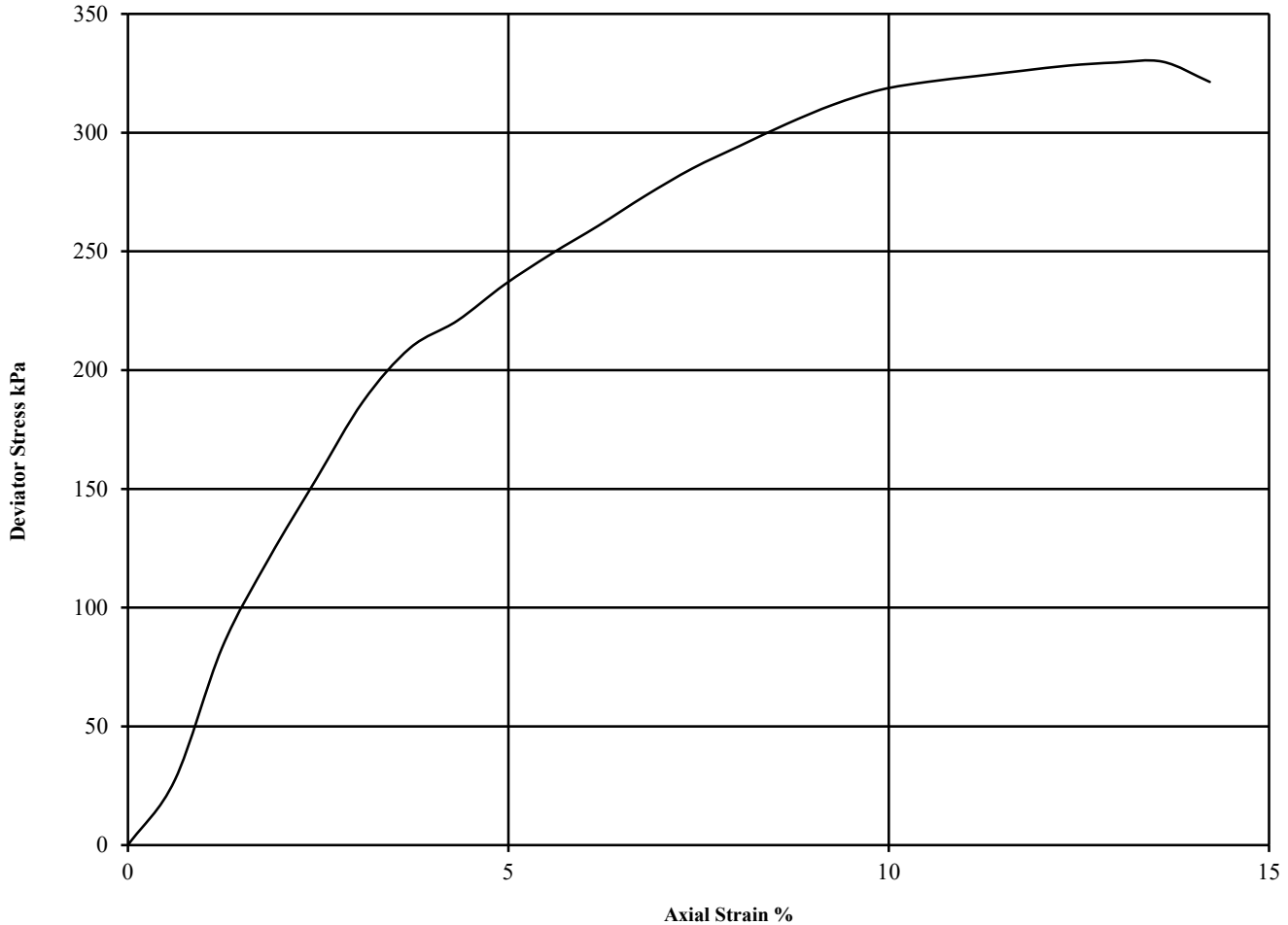
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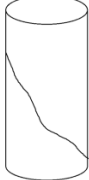
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UNCONSOLIDATED UNDRAINED TRIAXIAL TEST

BS 1377 - Part 2 : 2022 : Clause 28 in accordance with BS EN ISO 17892 - 8 : 2018

Hole Number: BH24-08 Top Depth (m): 9.00
 Sample Number 23 Base Depth (m): 9.45
 Sample Type U



Diameter (mm):		102		Height (mm):		165		Test:	UU Single Stage	Remarks:
Specimen	Water Content (%)	Bulk Density (Mg/m3)	Dry Density (Mg/m3)	Cell Pressure (kPa)	Corr. Max. Deviator Stress (kPa)	Shear Strength Cu (kPa)	Failure Strain (%)		Undisturbed Sample Sample taken from top of tube Rate of strain = 1.2 %/min See summary of soil descriptions	
1	22.8	2.13	1.74	310	330	165	13.0			Brittle



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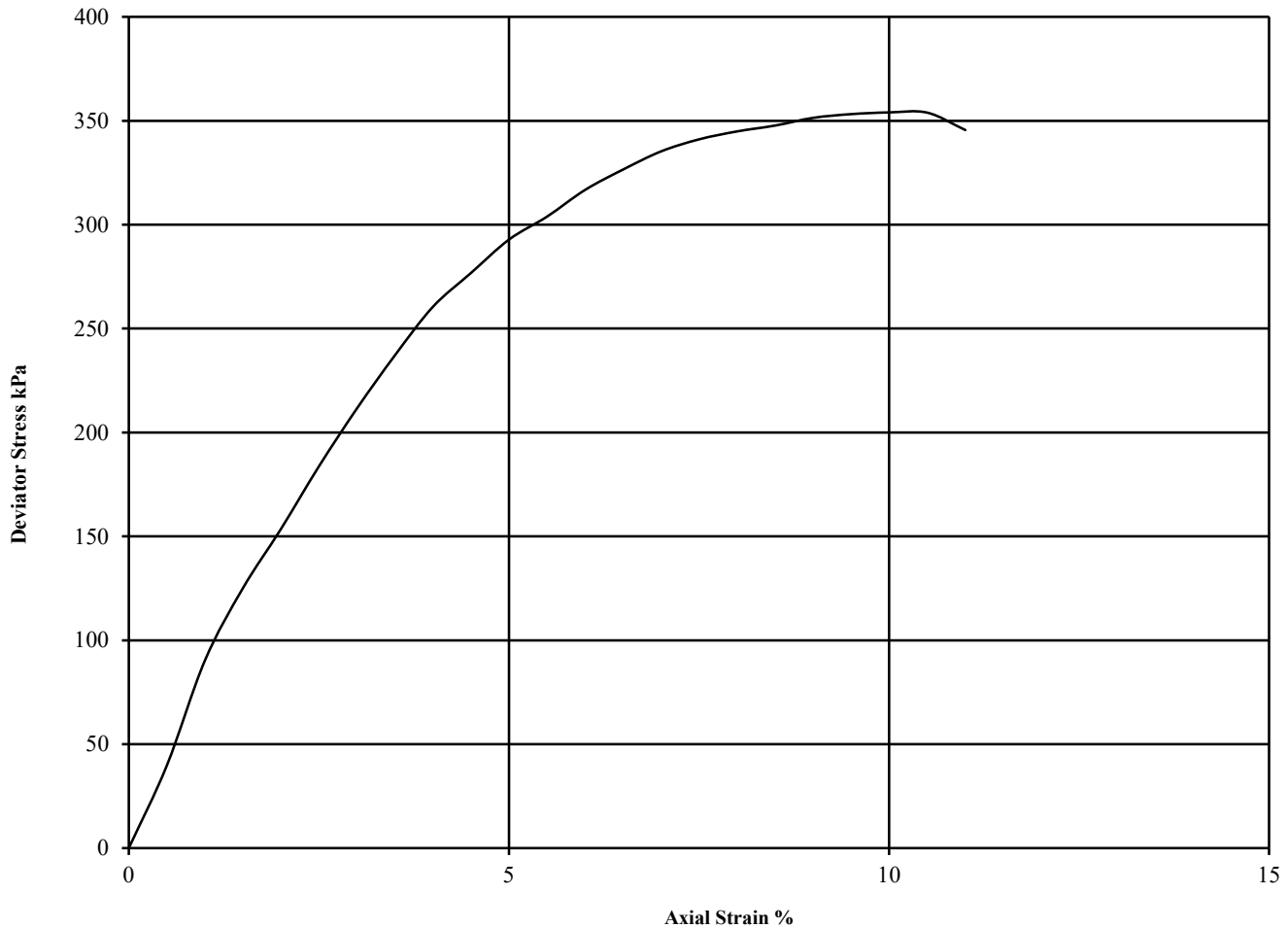
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BS 1377 - Part 2 : 2022 : Clause 28 in accordance with BS EN ISO 17892 - 8 : 2018

Hole Number: **BH24-08** Top Depth (m): **10.50**
 Sample Number **26** Base Depth (m): **10.95**
 Sample Type **U**



Diameter (mm):		Height (mm):			Test:	UU Single Stage		Remarks:
Specimen	Water Content (%)	Bulk Density (Mg/m ³)	Dry Density (Mg/m ³)	Cell Pressure (kPa)	Corr. Max. Deviator Stress (kPa)	Shear Strength Cu (kPa)	Failure Strain (%)	Undisturbed Sample Sample taken from top of tube Rate of strain = 0.9 %/min See summary of soil descriptions
1	24.8	2.13	1.70	350	354	177	9.5	



Brittle



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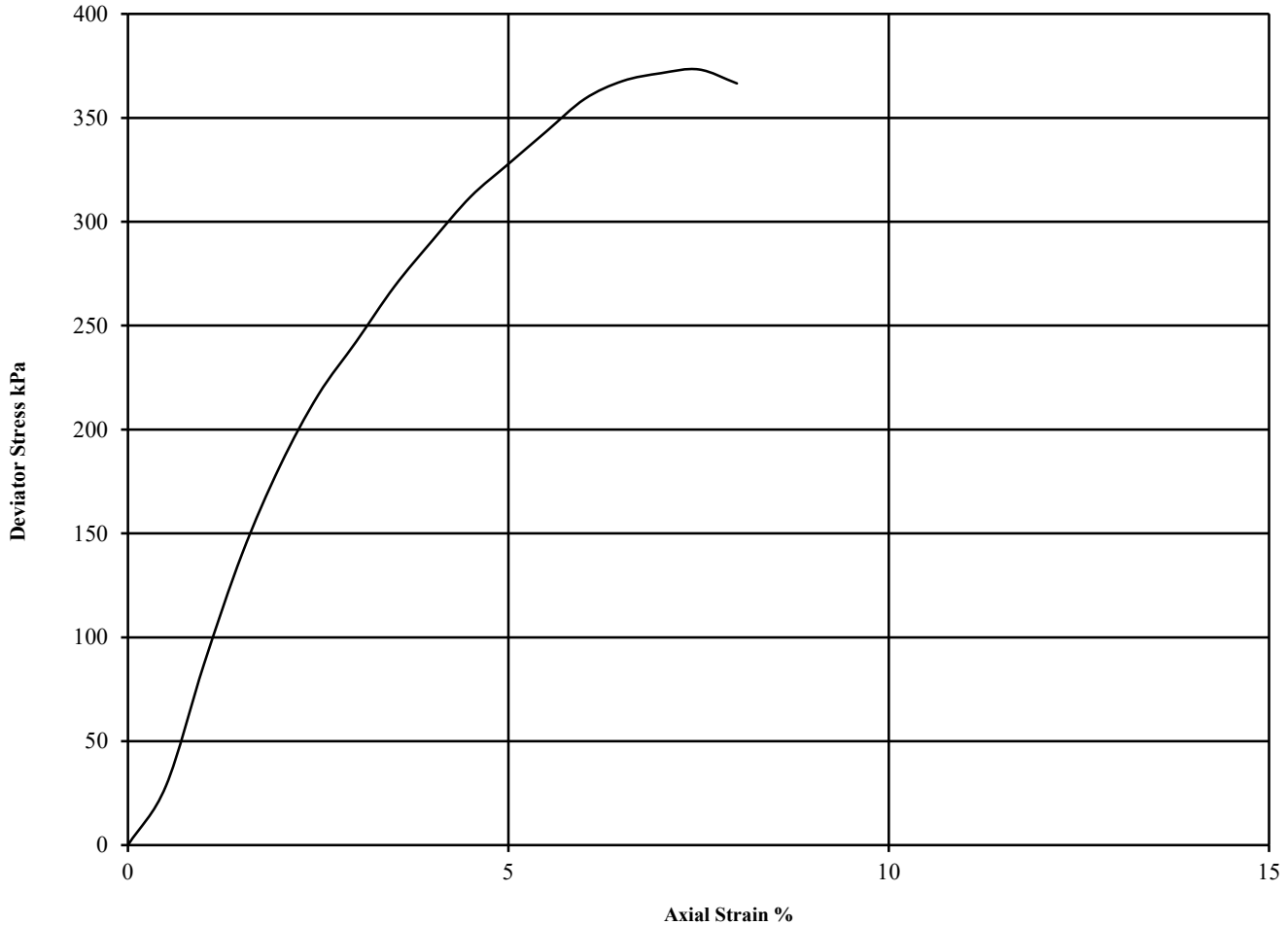
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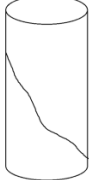
Top Depth (m): 13.50

Sample Number 32

Base Depth (m): 13.95

Sample Type U



Diameter (mm):		102		Height (mm):		204		Test:	UU Single Stage	Remarks:
Specimen	Water Content (%)	Bulk Density (Mg/m ³)	Dry Density (Mg/m ³)	Cell Pressure (kPa)	Corr. Max. Deviator Stress (kPa)	Shear Strength Cu (kPa)	Failure Strain (%)		Undisturbed Sample Sample taken from top of tube Rate of strain = 0.9 %/min See summary of soil descriptions	
1	26.9	2.11	1.66	430	373	187	7.0			Brittle



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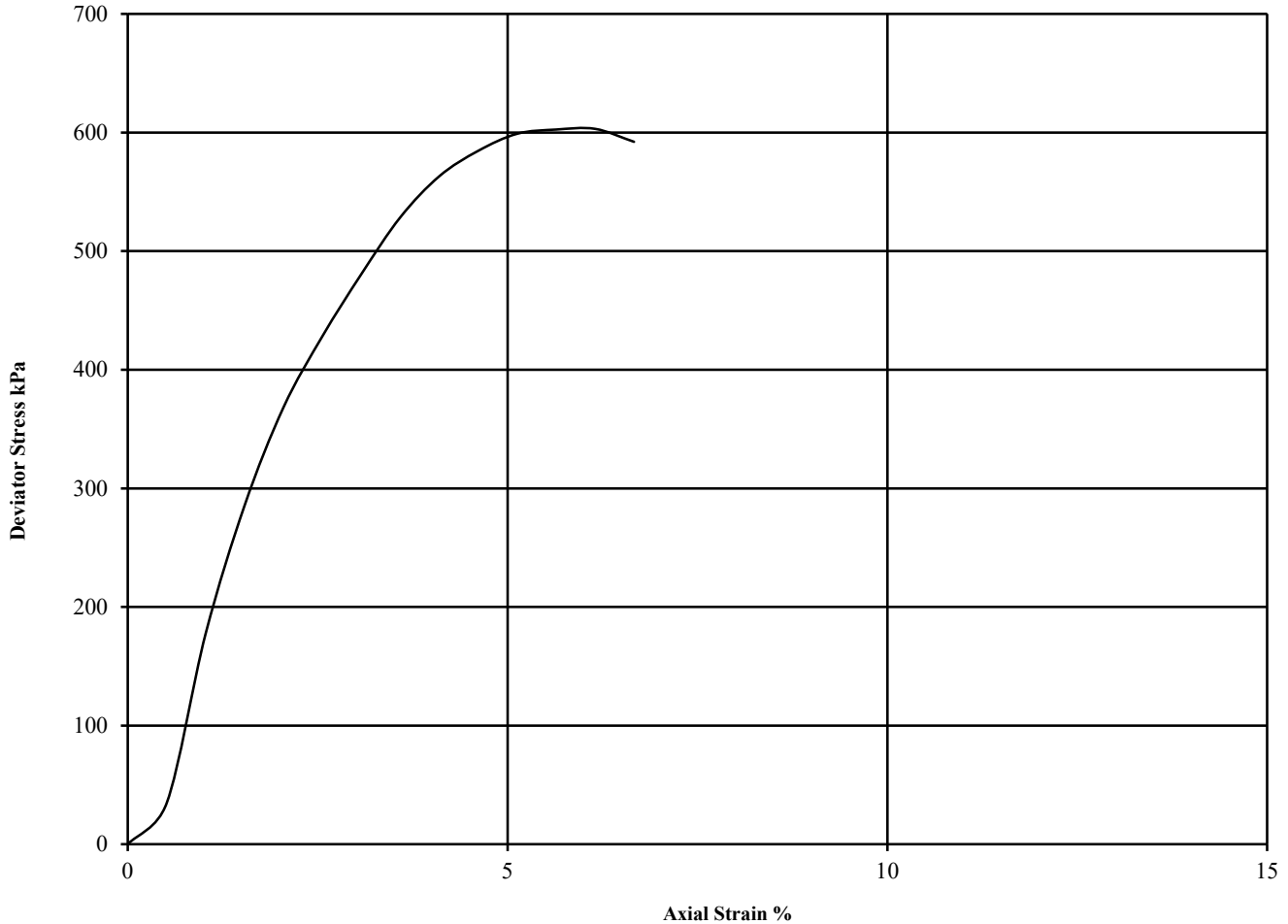
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BS 1377 - Part 2 : 2022 : Clause 28 in accordance with BS EN ISO 17892 - 8 : 2018

Hole Number:	BH24-08	Top Depth (m):	15.00
Sample Number	35	Base Depth (m):	15.45
Sample Type	U		



Diameter (mm):		102		Height (mm):		199		Test:	UU Single Stage	Remarks:
Specimen	Water Content (%)	Bulk Density (Mg/m3)	Dry Density (Mg/m3)	Cell Pressure (kPa)	Corr. Max. Deviator Stress (kPa)	Shear Strength Cu (kPa)	Failure Strain (%)		Undisturbed Sample Sample taken from top of tube Rate of strain = 1 %/min See summary of soil descriptions	
1	24.3	2.13	1.71	470	603	302	5.6			Brittle



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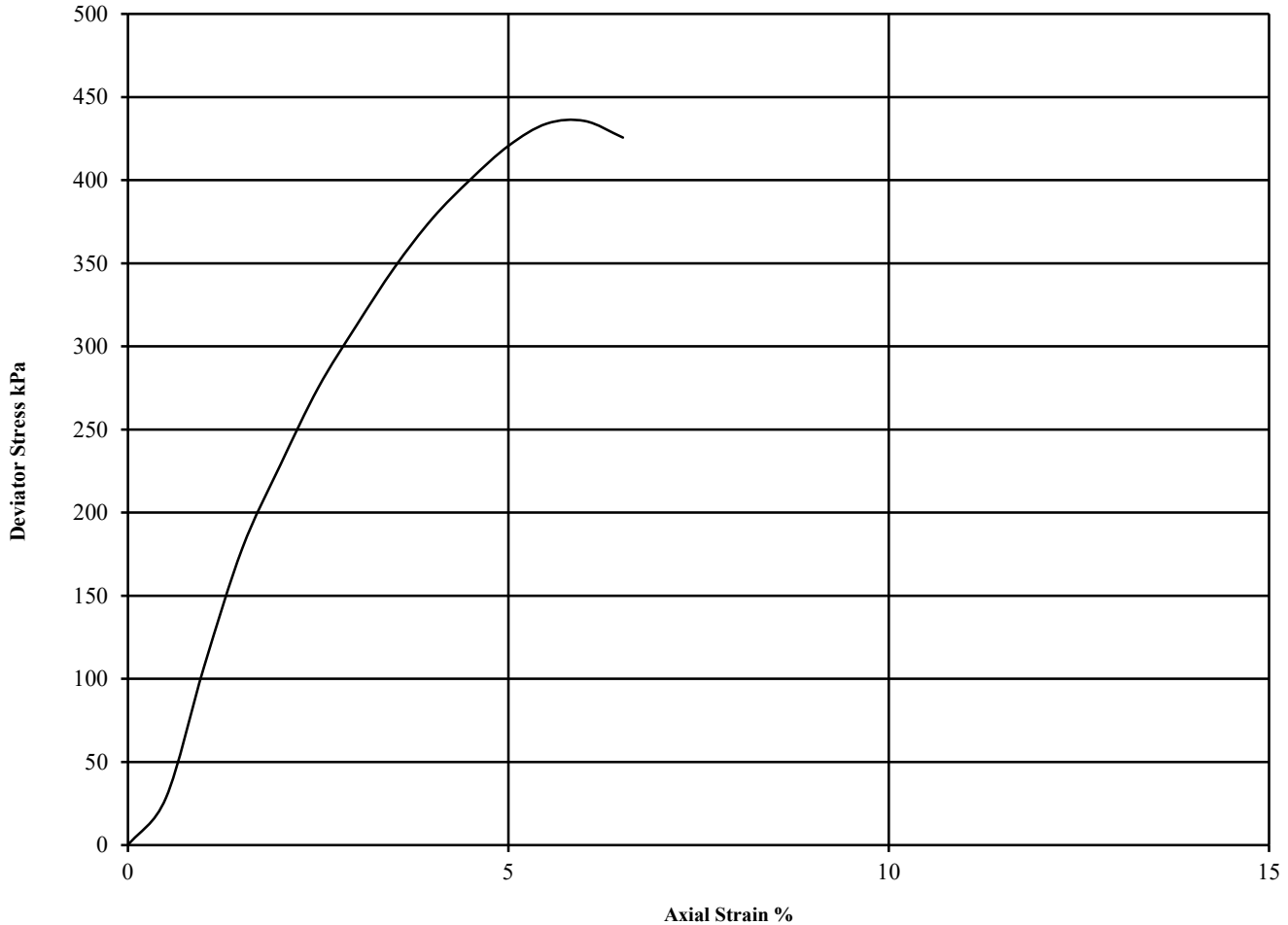
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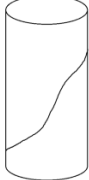
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BS 1377 - Part 2 : 2022 : Clause 28 in accordance with BS EN ISO 17892 - 8 : 2018

Hole Number: BH24-08 Top Depth (m): 16.50
 Sample Number 38 Base Depth (m): 16.95
 Sample Type U



Diameter (mm):		102		Height (mm):		204		Test:	UU Single Stage	Remarks:
Specimen	Water Content (%)	Bulk Density (Mg/m3)	Dry Density (Mg/m3)	Cell Pressure (kPa)	Corr. Max. Deviator Stress (kPa)	Shear Strength Cu (kPa)	Failure Strain (%)		Undisturbed Sample Sample taken from top of tube Rate of strain = 0.9 %/min See summary of soil descriptions	
1	25.4	2.15	1.71	505	436	218	5.5			Brittle



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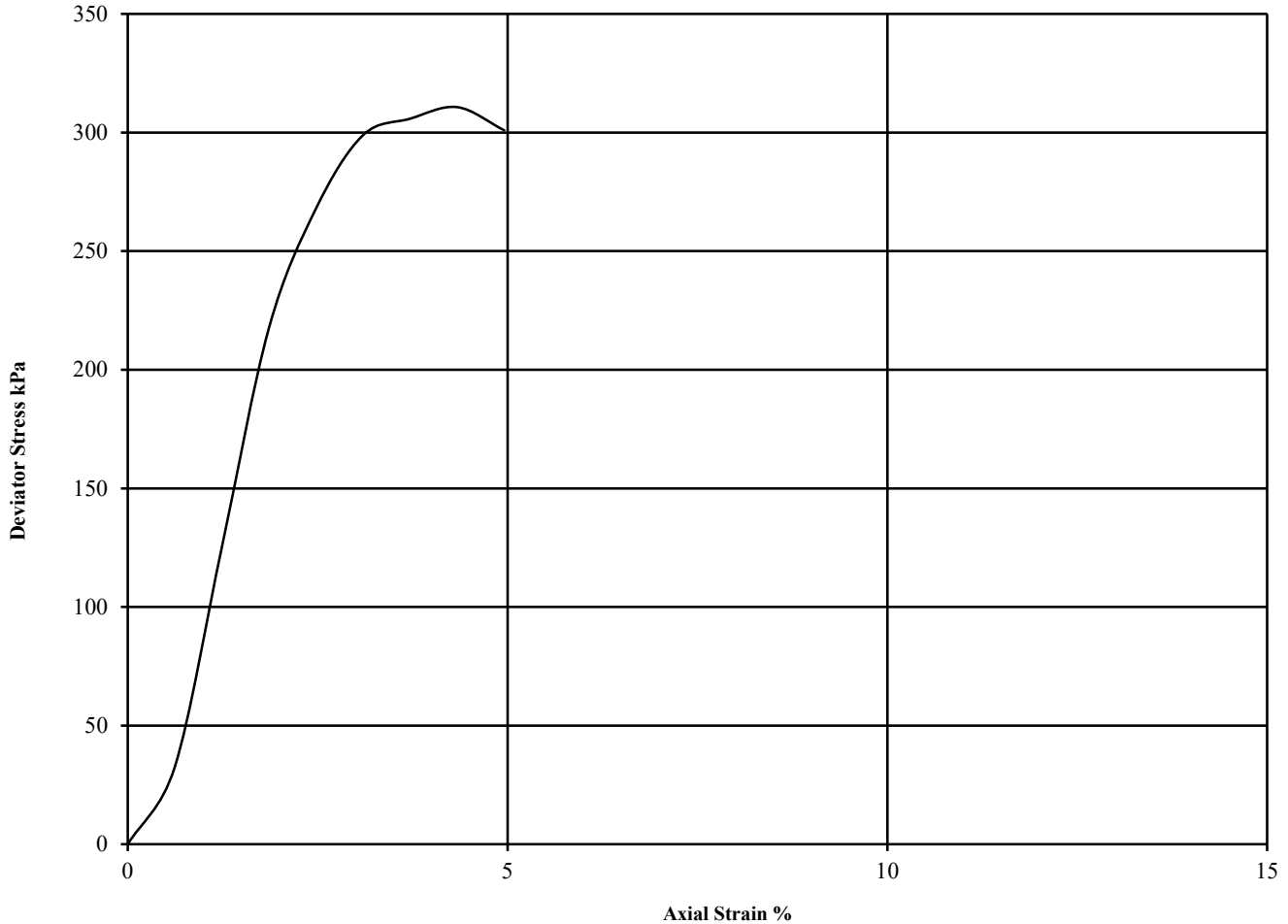
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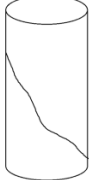
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UNCONSOLIDATED UNDRAINED TRIAXIAL TEST

BS 1377 - Part 2 : 2022 : Clause 28 in accordance with BS EN ISO 17892 - 8 : 2018

Hole Number:	BH24-08	Top Depth (m):	18.00
Sample Number	41	Base Depth (m):	18.45
Sample Type	U		



Diameter (mm):		102		Height (mm):		165		Test:	UU Single Stage	Remarks:
Specimen	Water Content (%)	Bulk Density (Mg/m3)	Dry Density (Mg/m3)	Cell Pressure (kPa)	Corr. Max. Deviator Stress (kPa)	Shear Strength Cu (kPa)	Failure Strain (%)		Undisturbed Sample Sample taken from top of tube Rate of strain = 1.2 %/min See summary of soil descriptions	
1	24.7	2.11	1.69	545	311	155	3.7			Brittle



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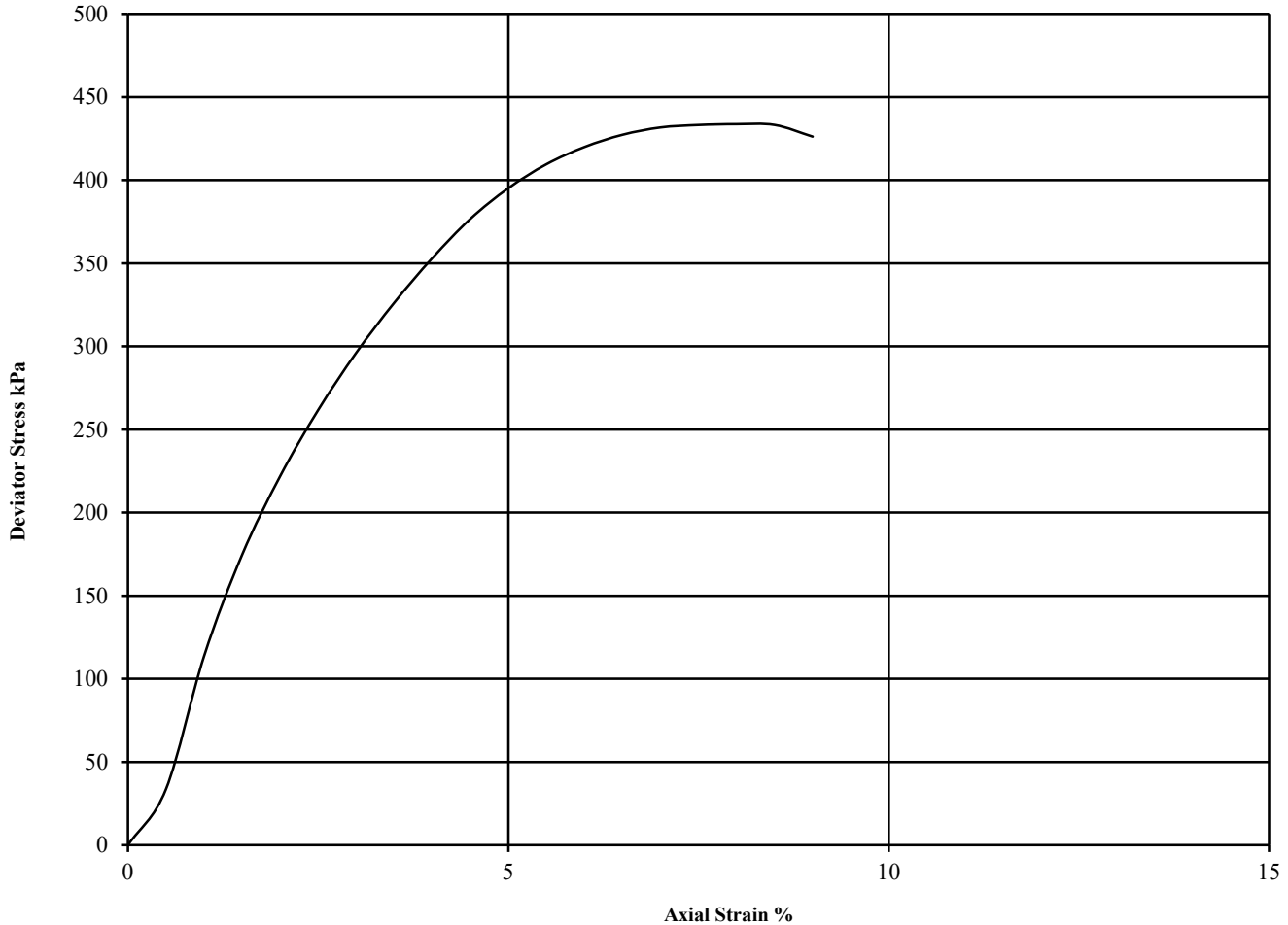
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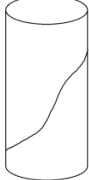
24/3980

UNCONSOLIDATED UNDRAINED TRIAXIAL TEST

BS 1377 - Part 2 : 2022 : Clause 28 in accordance with BS EN ISO 17892 - 8 : 2018

Hole Number: **BH24-08** Top Depth (m): **22.50**
 Sample Number **50** Base Depth (m): **22.95**
 Sample Type **U**



Diameter (mm):		102		Height (mm):		204		Test:	UU Single Stage	Remarks:
Specimen	Water Content (%)	Bulk Density (Mg/m3)	Dry Density (Mg/m3)	Cell Pressure (kPa)	Corr. Max. Deviator Stress (kPa)	Shear Strength Cu (kPa)	Failure Strain (%)		Undisturbed Sample Sample taken from top of tube Rate of strain = 0.9 %/min See summary of soil descriptions	
1	20.1	2.12	1.77	655	434	217	7.5			Brittle



Thorney Lane Phase 1 Due Diligence

Contract No:

PSL24/7027

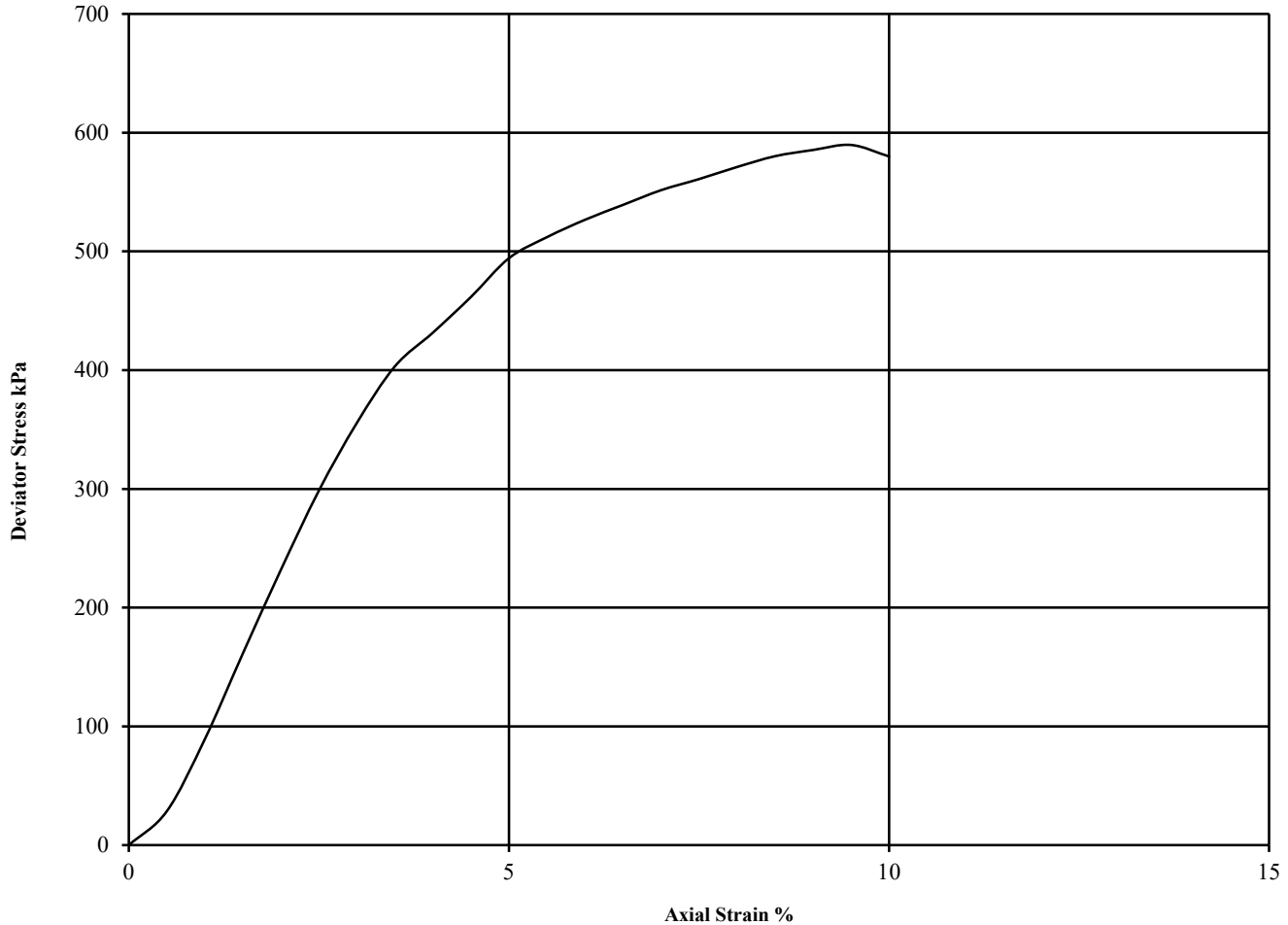
Client Ref:

24/3980

UNCONSOLIDATED UNDRAINED TRIAXIAL TEST

BS 1377 - Part 2 : 2022 : Clause 28 in accordance with BS EN ISO 17892 - 8 : 2018

Hole Number: **BH24-08** Top Depth (m): **24.00**
 Sample Number **53** Base Depth (m): **24.45**
 Sample Type **U**



Diameter (mm):		Height (mm):			Test:	UU Single Stage		Remarks:
Specimen	Water Content (%)	Bulk Density (Mg/m3)	Dry Density (Mg/m3)	Cell Pressure (kPa)	Corr. Max. Deviator Stress (kPa)	Shear Strength Cu (kPa)	Failure Strain (%)	Undisturbed Sample Sample taken from top of tube Rate of strain = 0.9 %/min See summary of soil descriptions
1	22.2	2.04	1.67	690	590	295	9.0	



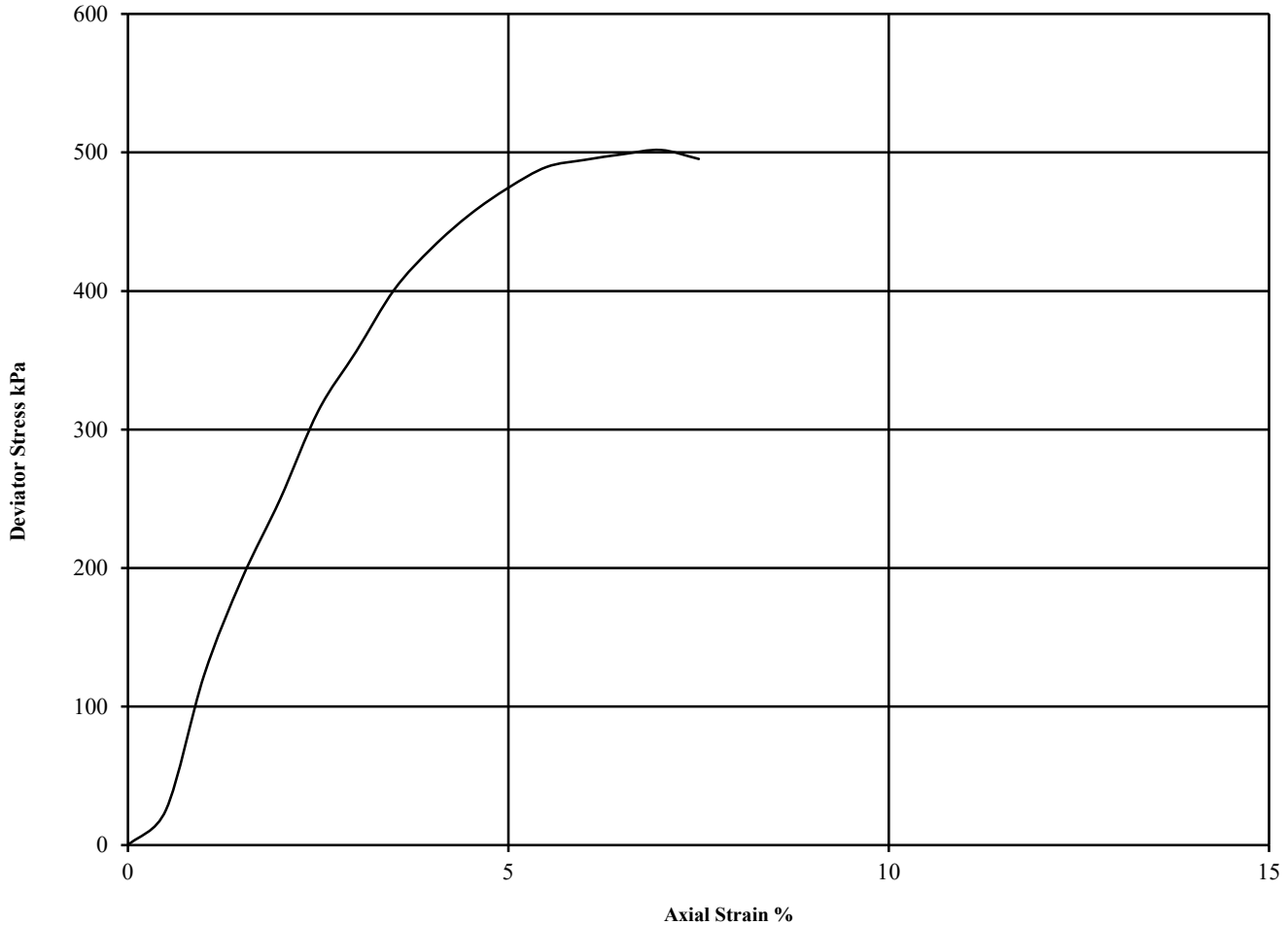
Thorney Lane Phase 1 Due Diligence


Contract No:
PSL24/7027
 Client Ref:
24/3980



UNCONSOLIDATED UNDRAINED TRIAXIAL TEST

BS 1377 - Part 2 : 2022 : Clause 28 in accordance with BS EN ISO 17892 - 8 : 2018

Hole Number:	BH24-08	Top Depth (m):	25.50
Sample Number	56	Base Depth (m):	25.95
Sample Type	U		



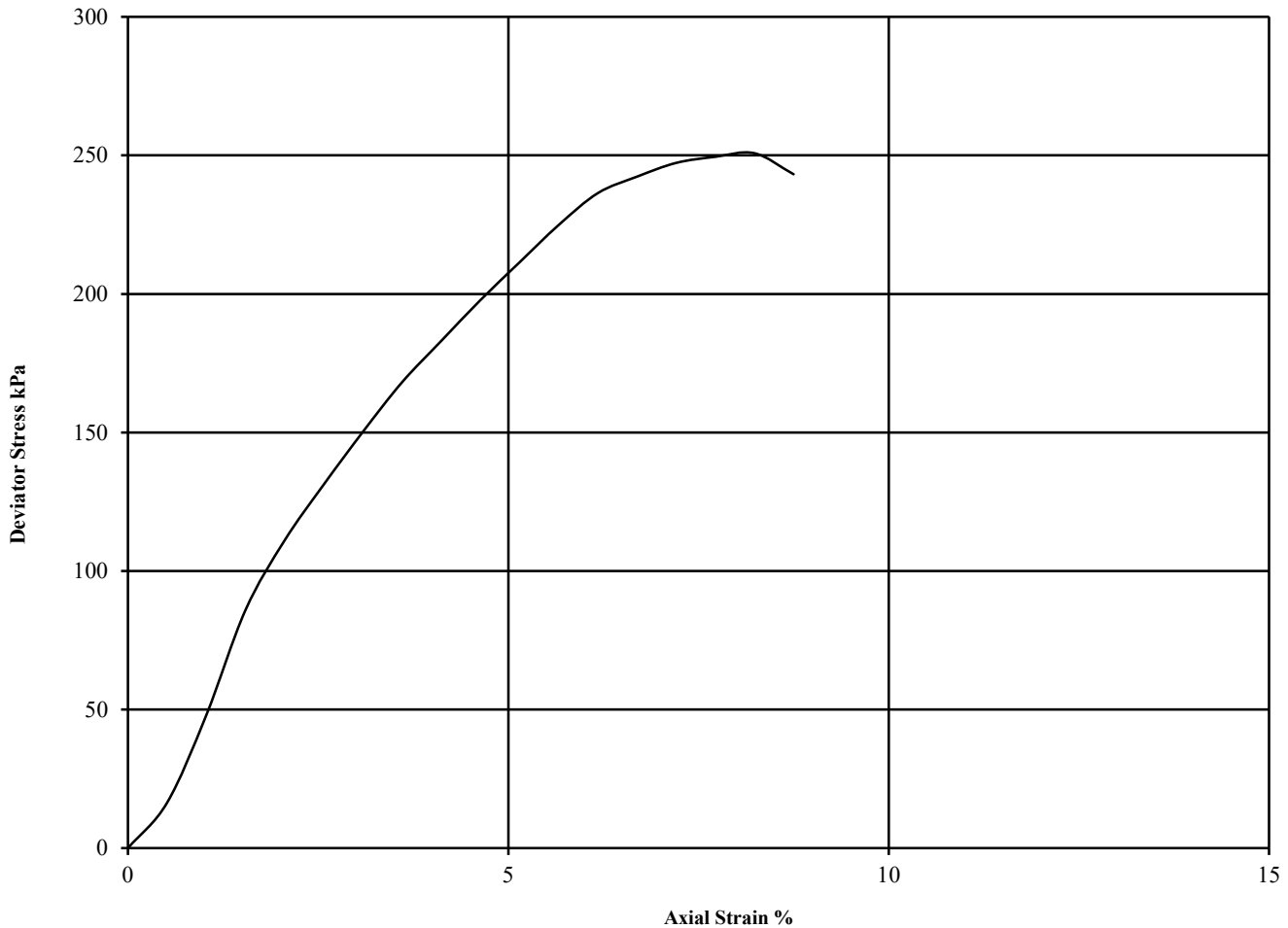
Diameter (mm):		102		Height (mm):		204		Test:	UU Single Stage	Remarks:
Specimen	Water Content (%)	Bulk Density (Mg/m3)	Dry Density (Mg/m3)	Cell Pressure (kPa)	Corr. Max. Deviator Stress (kPa)	Shear Strength Cu (kPa)	Failure Strain (%)		Undisturbed Sample Sample taken from top of tube Rate of strain = 0.9 %/min See summary of soil descriptions	
1	17.9	2.18	1.85	725	502	251	6.5			Brittle

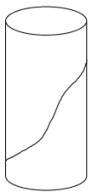
		Thorney Lane Phase 1 Due Diligence	Contract No:
			PSL24/7027
			Client Ref:
			24/3980

UNCONSOLIDATED UNDRAINED TRIAXIAL TEST

BS 1377 - Part 2 : 2022 : Clause 28 in accordance with BS EN ISO 17892 - 8 : 2018

Hole Number: BH24-09 Top Depth (m): 13.50
 Sample Number 37 Base Depth (m): 13.95
 Sample Type U



Diameter (mm):		105		Height (mm):		204		Test:	UU Single Stage	Remarks:
Specimen	Water Content (%)	Bulk Density (Mg/m3)	Dry Density (Mg/m3)	Cell Pressure (kPa)	Corr. Max. Deviator Stress (kPa)	Shear Strength Cu (kPa)	Failure Strain (%)		Undisturbed Sample Sample taken from top of tube Rate of strain = 0.9 %/min See summary of soil descriptions	
1	25.6	2.03	1.62	410	251	125	7.7	Brittle		



Thorney Lane Phase 1 Due Diligence

Contract No:

PSL24/6956

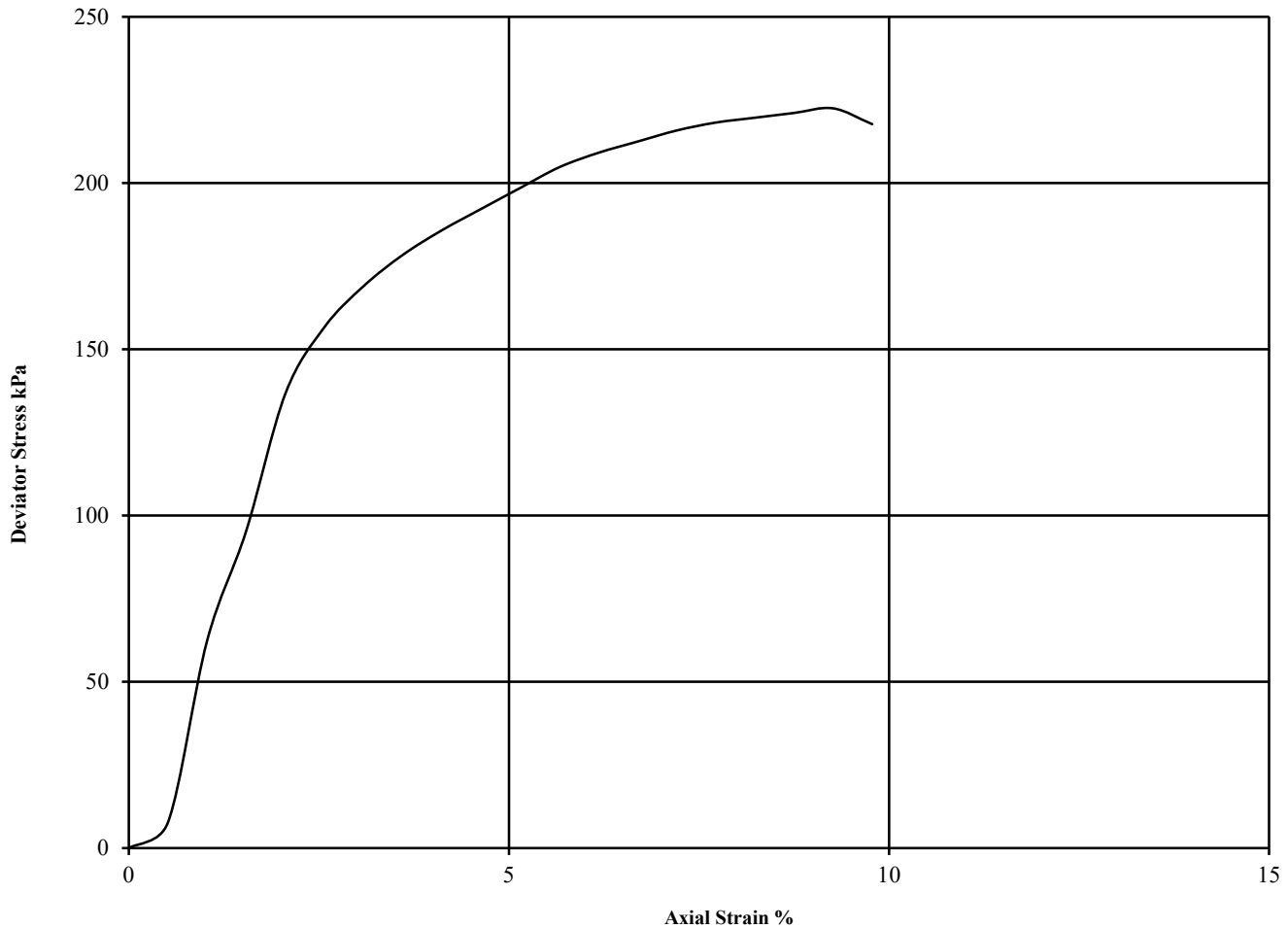
Client Ref:

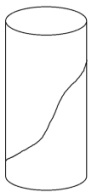
24/3980

UNCONSOLIDATED UNDRAINED TRIAXIAL TEST

BS 1377 - Part 2 : 2022 : Clause 28 in accordance with BS EN ISO 17892 - 8 : 2018

Hole Number: BH24-09 Top Depth (m): 16.50
 Sample Number 42 Base Depth (m): 16.95
 Sample Type U



Diameter (mm):		105		Height (mm):		204		Test:	UU Single Stage	Remarks:
Specimen	Water Content (%)	Bulk Density (Mg/m3)	Dry Density (Mg/m3)	Cell Pressure (kPa)	Corr. Max. Deviator Stress (kPa)	Shear Strength Cu (kPa)	Failure Strain (%)		Undisturbed Sample Sample taken from top of tube Rate of strain = 0.9 %/min See summary of soil descriptions	
1	23.4	2.03	1.65	490	222	111	8.8	Plastic		



Thorney Lane Phase 1 Due Diligence

Contract No:

PSL24/6956

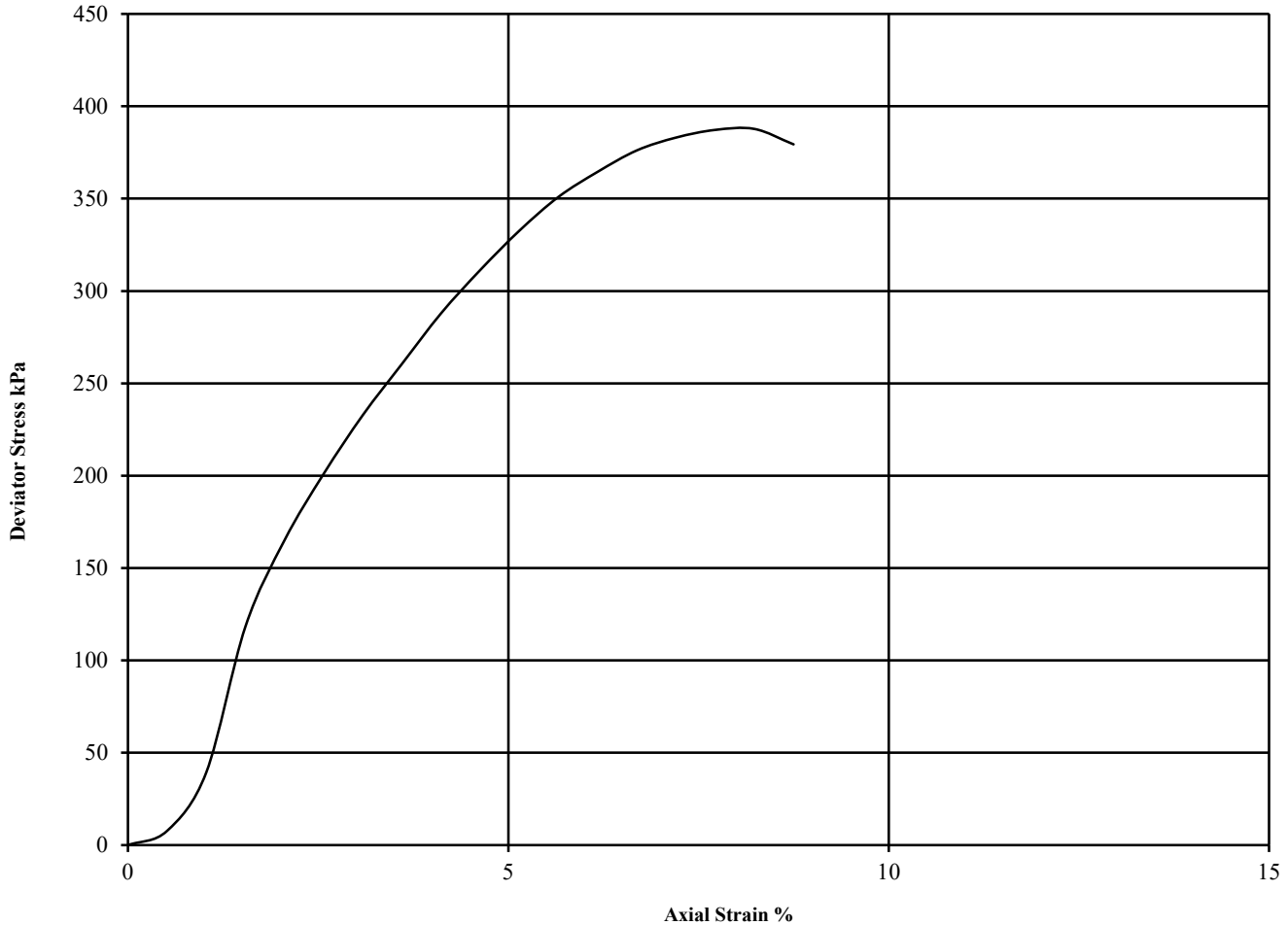
Client Ref:

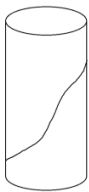
24/3980

UNCONSOLIDATED UNDRAINED TRIAXIAL TEST

BS 1377 - Part 2 : 2022 : Clause 28 in accordance with BS EN ISO 17892 - 8 : 2018

Hole Number: BH24-09 Top Depth (m): 19.50
 Sample Number 47 Base Depth (m): 19.95
 Sample Type U



Diameter (mm):		105		Height (mm):		204		Test:	UU Single Stage	Remarks:
Specimen	Water Content (%)	Bulk Density (Mg/m3)	Dry Density (Mg/m3)	Cell Pressure (kPa)	Corr. Max. Deviator Stress (kPa)	Shear Strength Cu (kPa)	Failure Strain (%)		Undisturbed Sample Sample taken from top of tube Rate of strain = 0.9 %/min See summary of soil descriptions	
1	23.8	2.04	1.65	565	388	194	7.7	Plastic		



Thorney Lane Phase 1 Due Diligence

Contract No:

PSL24/6956

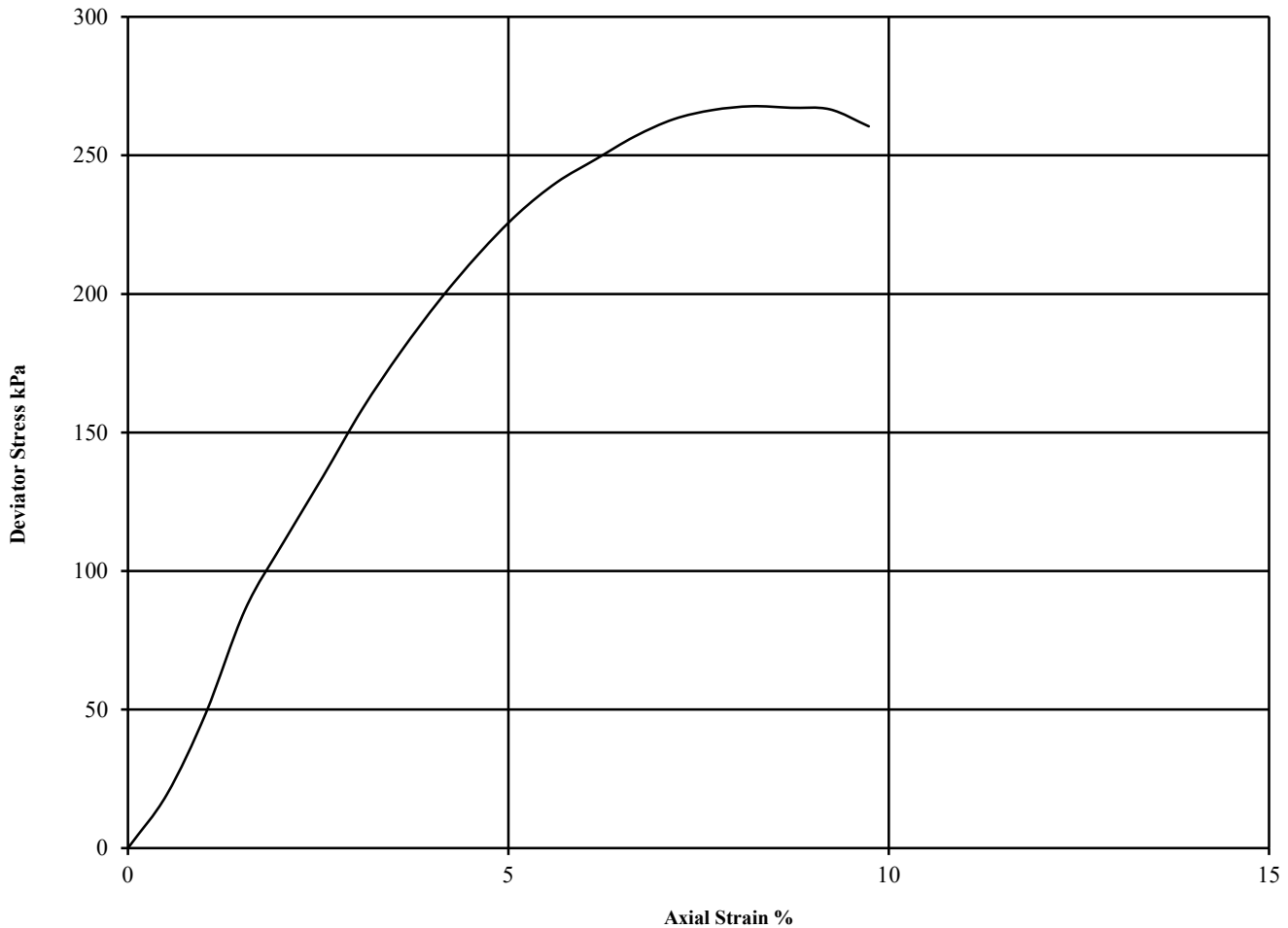
Client Ref:

24/3980



UNCONSOLIDATED UNDRAINED TRIAXIAL TEST

BS 1377 - Part 2 : 2022 : Clause 28 in accordance with BS EN ISO 17892 - 8 : 2018

Hole Number: **BH24-10** Top Depth (m): **4.50**
 Sample Number **12** Base Depth (m): **4.95**
 Sample Type **U**



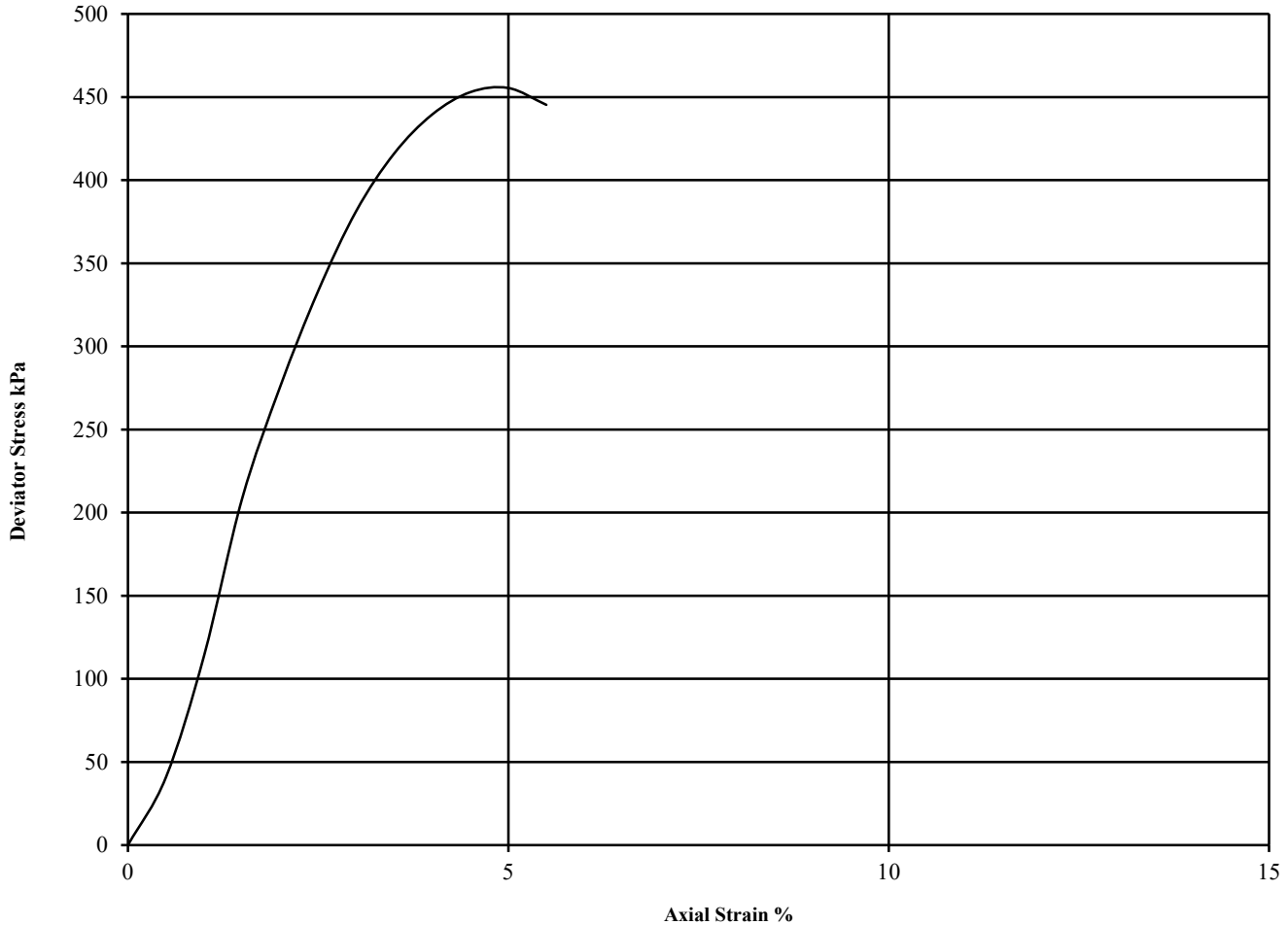
Diameter (mm):		Height (mm):			Test:	UU Single Stage		Remarks:
Specimen	Water Content (%)	Bulk Density (Mg/m3)	Dry Density (Mg/m3)	Cell Pressure (kPa)	Corr. Max. Deviator Stress (kPa)	Shear Strength Cu (kPa)	Failure Strain (%)	Undisturbed Sample Sample taken from top of tube Rate of strain = 1 %/min See summary of soil descriptions
1	25.1	2.12	1.69	180	268	134	7.7	

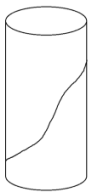
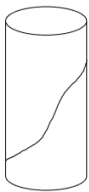
 	Thorney Lane Phase 1 Due Diligence		Contract No:
			PSL24/7201
			Client Ref:
			24/3980

UNCONSOLIDATED UNDRAINED TRIAXIAL TEST

BS 1377 - Part 2 : 2022 : Clause 28 in accordance with BS EN ISO 17892 - 8 : 2018

Hole Number:	BH24-10	Top Depth (m):	7.50
Sample Number	17	Base Depth (m):	7.95
Sample Type	U		



Diameter (mm):		102		Height (mm):		204		Test:	UU Single Stage	Remarks:
Specimen	Water Content (%)	Bulk Density (Mg/m ³)	Dry Density (Mg/m ³)	Cell Pressure (kPa)	Corr. Max. Deviator Stress (kPa)	Shear Strength Cu (kPa)	Failure Strain (%)			Undisturbed Sample Sample taken from top of tube Rate of strain = 0.9 %/min See summary of soil descriptions
1	24.0	2.14	1.73	270	455	228	4.5			



Thorney Lane Phase 1 Due Diligence

Contract No:

PSL24/7201

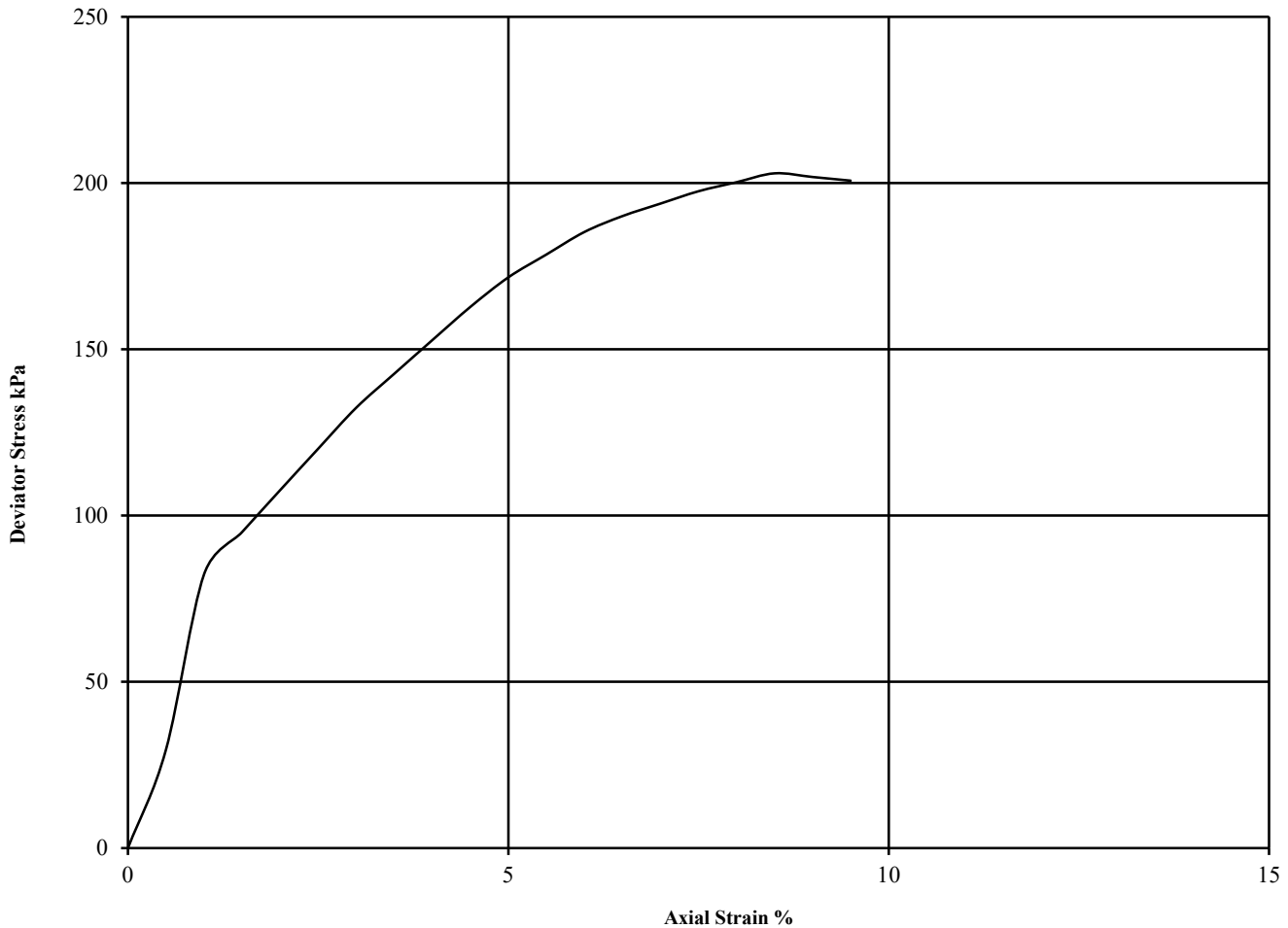
Client Ref:

24/3980



UNCONSOLIDATED UNDRAINED TRIAXIAL TEST

BS 1377 - Part 2 : 2022 : Clause 28 in accordance with BS EN ISO 17892 - 8 : 2018

Hole Number: **BH24-10** Top Depth (m): **9.00**
 Sample Number: **20** Base Depth (m): **9.45**
 Sample Type: **U**



Diameter (mm):		Height (mm):			Test:	UU Single Stage		Remarks:
Specimen	Water Content (%)	Bulk Density (Mg/m3)	Dry Density (Mg/m3)	Cell Pressure (kPa)	Corr. Max. Deviator Stress (kPa)	Shear Strength Cu (kPa)	Failure Strain (%)	Undisturbed Sample Sample taken from top of tube Rate of strain = 0.9 %/min See summary of soil descriptions
1	27.7	2.11	1.65	310	203	101	8.0	

 	Thorney Lane Phase 1 Due Diligence	Contract No:
		PSL24/7201
		Client Ref:
		24/3980

16. CHEMICAL LABORATORY TESTING RESULTS

Final Report

Report No.: 24-23868-1

Initial Date of Issue: 06-Aug-2024

Re-Issue Details:

Client Concept Engineering Consultants

Client Address:
 Unit D
 Herald Way Binley Industrial Estate
 Coventry
 CV3 2RQ

Contact(s):
 Kasia Mazerant
 Lab
 Gabriela Mandache

Project 24/3980 - Thorney Lane

Quotation No.: Q24-34527 **Date Received:** 26-Jul-2024

Order No.: 103097 (CL6102) **Date Instructed:** 29-Jul-2024

No. of Samples: 9

Turnaround (Wkdays): 6 **Results Due:** 05-Aug-2024

Date Approved: 06-Aug-2024

Approved By:



Details: David Smith, Technical Director

For details about application of accreditation to specific matrix types, please refer to the Table at the back of this report

Results - Leachate

Project: 24/3980 - Thorney Lane

Client: Concept Engineering Consultants		Chemtest Job No.:						
		24-23868	24-23868	24-23868				
Quotation No.: Q24-34527		Chemtest Sample ID.:						
		1841216	1841218	1841221				
		Client Sample ID.:						
		2	4	7				
		Sample Location:						
		BH24-05	DS24-06	BH24-09				
		Sample Type:						
		SOIL	SOIL	SOIL				
		Top Depth (m):						
		1.2	1.0	0.25				
		Date Sampled:						
		23-Jul-2024	23-Jul-2024	22-Jul-2024				
Determinand	Accred.	SOP	Type	Units	LOD			
Total Dissolved Solids	N	1020	10:1	mg/l	1.0	230	220	75
Chloride	U	1220	10:1	mg/l	1.0	< 1.0	2.4	< 1.0
Fluoride	U	1220	10:1	mg/l	0.050	0.24	0.18	0.18
Sulphate	U	1220	10:1	mg/l	1.0	44	13	21
Arsenic (Dissolved)	U	1455	10:1	µg/l	0.20	< 0.20	< 0.20	0.45
Barium (Dissolved)	U	1455	10:1	µg/l	5.00	5.2	< 5.0	< 5.0
Cadmium (Dissolved)	U	1455	10:1	µg/l	0.11	< 0.11	< 0.11	< 0.11
Chromium (Dissolved)	U	1455	10:1	µg/l	0.50	< 0.50	1.4	< 0.50
Copper (Dissolved)	U	1455	10:1	µg/l	0.50	1.9	3.9	5.2
Mercury (Dissolved)	U	1455	10:1	µg/l	0.05	< 0.05	< 0.05	< 0.05
Molybdenum (Dissolved)	U	1455	10:1	µg/l	0.20	2.0	2.8	0.64
Nickel (Dissolved)	U	1455	10:1	µg/l	0.50	< 0.50	< 0.50	< 0.50
Lead (Dissolved)	U	1455	10:1	µg/l	0.50	< 0.50	< 0.50	< 0.50
Antimony (Dissolved)	U	1455	10:1	µg/l	0.50	1.4	< 0.50	1.2
Selenium (Dissolved)	U	1455	10:1	µg/l	0.50	< 0.50	1.3	< 0.50
Zinc (Dissolved)	U	1455	10:1	µg/l	2.5	< 2.5	< 2.5	< 2.5
Dissolved Organic Carbon	U	1610	10:1	mg/l	2.0	3.6	3.4	3.3
Total Phenols	U	1920	10:1	mg/l	0.030	< 0.030	< 0.030	< 0.030

Results - Soil

Project: 24/3980 - Thorney Lane

Client: Concept Engineering Consultants		Chemtest Job No.:		24-23868	24-23868	24-23868	24-23868	24-23868	24-23868	24-23868	24-23868
Quotation No.: Q24-34527		Chemtest Sample ID.:		1841215	1841216	1841217	1841218	1841219	1841220	1841221	
		Client Sample ID.:		1	2	3	4	5	6	7	
		Sample Location:		BH24-05	BH24-05	DS24-06	DS24-06	BH24-06	BH24-06	BH24-09	
		Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
		Top Depth (m):		0.4	1.2	0.3	1.0	0.3	1.2	0.25	
		Date Sampled:		23-Jul-2024	23-Jul-2024	23-Jul-2024	23-Jul-2024	22-Jul-2024	22-Jul-2024	22-Jul-2024	
		Asbestos Lab:		DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	
Determinand	HWOL Code	Accred.	SOP	Units	LOD						
ACM Type		U	2192		N/A	-	-	-	-	-	-
Asbestos Identification		U	2192		N/A	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
Asbestos by Gravimetry		U	2192	%	0.001						
Total Asbestos		U	2192	%	0.001						
Moisture		N	2030	%	0.020	6.7	12	10	9.8	13	14
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones	Stones	Stones	Stones	Stones	Stones
Soil Texture		N	2040		N/A	Sand	Sand	Sand	Sand	Sand	Sand
pH at 20C		U	2010		4.0	8.1	8.5	8.4	8.2	8.1	8.2
Boron (Hot Water Soluble)		U	2120	mg/kg	0.40	1.1	0.60	1.1	0.56	0.86	< 0.40
Cyanide (Complex)		U	2300	mg/kg	0.50						< 0.50
Cyanide (Free)		U	2300	mg/kg	0.50						< 0.50
Cyanide (Total)		U	2300	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Thiocyanate		U	2300	mg/kg	5.0						< 5.0
Arsenic		U	2455	mg/kg	0.5	16	11	11	3.8	16	12
Beryllium		U	2455	mg/kg	0.5	0.8	0.7	0.7	< 0.5	0.7	1.0
Cadmium		U	2455	mg/kg	0.10	0.11	0.21	0.12	< 0.10	< 0.10	< 0.10
Chromium		U	2455	mg/kg	0.5	35	27	25	14	28	36
Antimony		N	2455	mg/kg	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Copper		U	2455	mg/kg	0.50	58	35	88	11	97	28
Mercury		U	2455	mg/kg	0.05	0.08	0.06	0.10	< 0.05	0.08	0.20
Nickel		U	2455	mg/kg	0.50	25	23	25	11	30	35
Lead		U	2455	mg/kg	0.50	87	54	180	13	63	33
Selenium		U	2455	mg/kg	0.25	0.50	0.43	0.40	< 0.25	0.50	0.87
Vanadium		U	2455	mg/kg	0.5	52	60	36	17	46	46
Zinc		U	2455	mg/kg	0.50	92	85	110	24	110	71
Chromium (Hexavalent)		N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	U	2690	mg/kg	2.00	< 2.0	3.0	2.5	< 2.0	< 2.0	2.0
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	U	2690	mg/kg	1.00	17	21	17	< 1.0	5.8	2.8
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	U	2690	mg/kg	2.00	58	52	25	19	48	3.8

Results - Soil

Project: 24/3980 - Thorney Lane

Client: Concept Engineering Consultants		Chemtest Job No.:		24-23868	24-23868	24-23868	24-23868	24-23868	24-23868	24-23868	24-23868	
Quotation No.: Q24-34527		Chemtest Sample ID.:		1841215	1841216	1841217	1841218	1841219	1841220	1841221		
		Client Sample ID.:		1	2	3	4	5	6	7		
		Sample Location:		BH24-05	BH24-05	DS24-06	DS24-06	BH24-06	BH24-06	BH24-09		
		Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL		
		Top Depth (m):		0.4	1.2	0.3	1.0	0.3	1.2	0.25		
		Date Sampled:		23-Jul-2024	23-Jul-2024	23-Jul-2024	23-Jul-2024	22-Jul-2024	22-Jul-2024	22-Jul-2024		
		Asbestos Lab:		DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM		
Determinand	HWOL Code	Accred.	SOP	Units	LOD							
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	U	2690	mg/kg	3.00	160	160	92	290	100	5.6	13
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	58	110	47	25	< 10	< 10	< 10
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	U	2690	mg/kg	5.00	240	230	140	310	160	14	28
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	300	340	180	340	160	14	28
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	7.4	19	8.8	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	39	41	50	3.4	9.1	9.3	20
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	45	27	36	< 2.0	15	34	39
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	210	180	110	4.2	21	9.5	110
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	91	88	95	< 5.0	24	43	59
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	300	270	210	< 10	45	53	170
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	330	320	230	320	180	57	87
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	600	610	390	350	200	67	200
Total Organic Carbon		U	2625	%	0.20	1.4	1.7	1.0	0.95	0.65	0.52	1.1
Dichlorodifluoromethane		U	2760	µg/kg	1.0							< 1.0
Chloromethane		U	2760	µg/kg	1.0							< 1.0
Vinyl Chloride		U	2760	µg/kg	1.0							< 1.0
Bromomethane		U	2760	µg/kg	20							< 20
Chloroethane		U	2760	µg/kg	2.0							< 2.0
Trichlorofluoromethane		U	2760	µg/kg	1.0							< 1.0
1,1-Dichloroethene		U	2760	µg/kg	1.0							< 1.0
Dichloromethane		N	2760	µg/kg	50							< 50
Trans 1,2-Dichloroethene		U	2760	µg/kg	1.0							< 1.0
1,1-Dichloroethane		U	2760	µg/kg	1.0							< 1.0
cis 1,2-Dichloroethene		U	2760	µg/kg	1.0							< 1.0
Bromochloromethane		U	2760	µg/kg	5.0							< 5.0
Trichloromethane		U	2760	µg/kg	1.0							< 1.0
1,1,1-Trichloroethane		U	2760	µg/kg	1.0							< 1.0
Tetrachloromethane		U	2760	µg/kg	1.0							< 1.0
1,1-Dichloropropene		U	2760	µg/kg	1.0							< 1.0
Benzene		U	2760	mg/kg	0.0010	< 0.0010	0.018	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 1.0
Benzene		U	2760	µg/kg	1.0							< 1.0

Results - Soil

Project: 24/3980 - Thorney Lane

Client: Concept Engineering Consultants		Chemtest Job No.:		24-23868	24-23868	24-23868	24-23868	24-23868	24-23868	24-23868
Quotation No.: Q24-34527		Chemtest Sample ID.:		1841215	1841216	1841217	1841218	1841219	1841220	1841221
		Client Sample ID.:		1	2	3	4	5	6	7
		Sample Location:		BH24-05	BH24-05	DS24-06	DS24-06	BH24-06	BH24-06	BH24-09
		Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):		0.4	1.2	0.3	1.0	0.3	1.2	0.25
		Date Sampled:		23-Jul-2024	23-Jul-2024	23-Jul-2024	23-Jul-2024	22-Jul-2024	22-Jul-2024	22-Jul-2024
		Asbestos Lab:		DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	HWOL Code	Accred.	SOP	Units	LOD					
1,2-Dichloroethane		U	2760	µg/kg	2.0					< 2.0
Trichloroethene		N	2760	µg/kg	1.0					< 1.0
1,2-Dichloropropane		U	2760	µg/kg	1.0					< 1.0
Dibromomethane		U	2760	µg/kg	1.0					< 1.0
Bromodichloromethane		U	2760	µg/kg	5.0					< 5.0
cis-1,3-Dichloropropene		N	2760	µg/kg	10					< 10
Toluene		U	2760	mg/kg	0.0010	< 0.0010	0.0031	< 0.0010	< 0.0010	< 0.0010
Toluene		U	2760	µg/kg	1.0					< 1.0
Trans-1,3-Dichloropropene		N	2760	µg/kg	10					< 10
1,1,2-Trichloroethane		U	2760	µg/kg	10					< 10
Tetrachloroethene		U	2760	µg/kg	1.0					< 1.0
1,3-Dichloropropane		U	2760	µg/kg	2.0					< 2.0
Dibromochloromethane		U	2760	µg/kg	10					< 10
1,2-Dibromoethane		U	2760	µg/kg	5.0					< 5.0
Chlorobenzene		U	2760	µg/kg	1.0					< 1.0
1,1,1,2-Tetrachloroethane		U	2760	µg/kg	2.0					< 2.0
Ethylbenzene		U	2760	mg/kg	0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
Ethylbenzene		U	2760	µg/kg	1.0					< 1.0
m & p-Xylene		U	2760	mg/kg	0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
m & p-Xylene		U	2760	µg/kg	1.0					< 1.0
o-Xylene		U	2760	mg/kg	0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
o-Xylene		U	2760	µg/kg	1.0					< 1.0
Styrene		U	2760	µg/kg	1.0					< 1.0
Tribromomethane		U	2760	µg/kg	1.0					< 1.0
Isopropylbenzene		U	2760	µg/kg	1.0					< 1.0
Bromobenzene		U	2760	µg/kg	1.0					< 1.0
1,2,3-Trichloropropane		N	2760	µg/kg	50					< 50
N-Propylbenzene		U	2760	µg/kg	1.0					< 1.0
2-Chlorotoluene		U	2760	µg/kg	1.0					< 1.0
1,3,5-Trimethylbenzene		U	2760	µg/kg	1.0					< 1.0
4-Chlorotoluene		U	2760	µg/kg	1.0					< 1.0
Tert-Butylbenzene		U	2760	µg/kg	1.0					< 1.0
1,2,4-Trimethylbenzene		U	2760	µg/kg	1.0					< 1.0
Sec-Butylbenzene		U	2760	µg/kg	1.0					< 1.0
1,3-Dichlorobenzene		U	2760	µg/kg	1.0					< 1.0
4-Isopropyltoluene		U	2760	µg/kg	1.0					< 1.0
1,4-Dichlorobenzene		U	2760	µg/kg	1.0					< 1.0

Results - Soil

Project: 24/3980 - Thorney Lane

Client: Concept Engineering Consultants		Chemtest Job No.:				24-23868	24-23868	24-23868	24-23868	24-23868	24-23868	24-23868
Quotation No.: Q24-34527		Chemtest Sample ID.:				1841215	1841216	1841217	1841218	1841219	1841220	1841221
		Client Sample ID.:				1	2	3	4	5	6	7
		Sample Location:				BH24-05	BH24-05	DS24-06	DS24-06	BH24-06	BH24-06	BH24-09
		Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):				0.4	1.2	0.3	1.0	0.3	1.2	0.25
		Date Sampled:				23-Jul-2024	23-Jul-2024	23-Jul-2024	23-Jul-2024	22-Jul-2024	22-Jul-2024	22-Jul-2024
		Asbestos Lab:				DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	HWOL Code	Accred.	SOP	Units	LOD							
N-Butylbenzene		U	2760	µg/kg	1.0							< 1.0
1,2-Dichlorobenzene		U	2760	µg/kg	1.0							< 1.0
1,2-Dibromo-3-Chloropropane		U	2760	µg/kg	50							< 50
1,2,4-Trichlorobenzene		U	2760	µg/kg	1.0							< 1.0
Hexachlorobutadiene		N	2760	µg/kg	1.0							< 1.0
1,2,3-Trichlorobenzene		U	2760	µg/kg	2.0							< 2.0
Methyl Tert-Butyl Ether		U	2760	mg/kg	0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	
Methyl Tert-Butyl Ether		U	2760	µg/kg	1.0							< 1.0
N-Nitrosodimethylamine		U	2790	mg/kg	0.50							< 0.50
Phenol		U	2790	mg/kg	0.50							< 0.50
2-Chlorophenol		N	2790	mg/kg	0.50							< 0.50
Bis-(2-Chloroethyl)Ether		U	2790	mg/kg	0.50							< 0.50
1,3-Dichlorobenzene		U	2790	mg/kg	0.50							< 0.50
1,4-Dichlorobenzene		N	2790	mg/kg	0.50							< 0.50
1,2-Dichlorobenzene		U	2790	mg/kg	0.50							< 0.50
2-Methylphenol		U	2790	mg/kg	0.50							< 0.50
Bis(2-Chloroisopropyl)Ether		U	2790	mg/kg	0.50							< 0.50
Hexachloroethane		N	2790	mg/kg	0.50							< 0.50
N-Nitrosodi-n-propylamine		U	2790	mg/kg	0.50							< 0.50
4-Methylphenol		U	2790	mg/kg	0.50							< 0.50
Nitrobenzene		N	2790	mg/kg	0.50							< 0.50
Isophorone		U	2790	mg/kg	0.50							< 0.50
2-Nitrophenol		N	2790	mg/kg	0.50							< 0.50
2,4-Dimethylphenol		N	2790	mg/kg	0.50							< 0.50
Bis(2-Chloroethoxy)Methane		U	2790	mg/kg	0.50							< 0.50
2,4-Dichlorophenol		N	2790	mg/kg	0.50							< 0.50
1,2,4-Trichlorobenzene		U	2790	mg/kg	0.50							< 0.50
Naphthalene		U	2790	mg/kg	0.50							< 0.50
4-Chloroaniline		N	2790	mg/kg	0.50							< 0.50
Hexachlorobutadiene		U	2790	mg/kg	0.50							< 0.50
4-Chloro-3-Methylphenol		N	2790	mg/kg	0.50							< 0.50
2-Methylnaphthalene		U	2790	mg/kg	0.50							< 0.50
4-Nitrophenol		N	2790	mg/kg	0.50							< 0.50
2,4,6-Trichlorophenol		N	2790	mg/kg	0.50							< 0.50
2,4,5-Trichlorophenol		N	2790	mg/kg	0.50							< 0.50
2-Chloronaphthalene		U	2790	mg/kg	0.50							< 0.50
2-Nitroaniline		N	2790	mg/kg	0.50							< 0.50

Results - Soil

Project: 24/3980 - Thorney Lane

Client: Concept Engineering Consultants		Chemtest Job No.:				24-23868	24-23868	24-23868	24-23868	24-23868	24-23868	24-23868
Quotation No.: Q24-34527		Chemtest Sample ID.:				1841215	1841216	1841217	1841218	1841219	1841220	1841221
		Client Sample ID.:				1	2	3	4	5	6	7
		Sample Location:				BH24-05	BH24-05	DS24-06	DS24-06	BH24-06	BH24-06	BH24-09
		Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):				0.4	1.2	0.3	1.0	0.3	1.2	0.25
		Date Sampled:				23-Jul-2024	23-Jul-2024	23-Jul-2024	23-Jul-2024	22-Jul-2024	22-Jul-2024	22-Jul-2024
		Asbestos Lab:				DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	HWOL Code	Accred.	SOP	Units	LOD							
Acenaphthylene		U	2790	mg/kg	0.50							< 0.50
Dimethylphthalate		U	2790	mg/kg	0.50							< 0.50
2,6-Dinitrotoluene		N	2790	mg/kg	0.50							< 0.50
Acenaphthene		U	2790	mg/kg	0.50							< 0.50
3-Nitroaniline		N	2790	mg/kg	0.50							< 0.50
Dibenzofuran		U	2790	mg/kg	0.50							< 0.50
4-Chlorophenylphenylether		U	2790	mg/kg	0.50							< 0.50
2,4-Dinitrotoluene		N	2790	mg/kg	0.50							< 0.50
Fluorene		U	2790	mg/kg	0.50							< 0.50
Diethyl Phthalate		U	2790	mg/kg	0.50							< 0.50
4-Nitroaniline		N	2790	mg/kg	0.50							< 0.50
Azobenzene		U	2790	mg/kg	0.50							< 0.50
4-Bromophenylphenyl Ether		U	2790	mg/kg	0.50							< 0.50
Hexachlorobenzene		U	2790	mg/kg	0.50							< 0.50
Phenanthrene		U	2790	mg/kg	0.50							0.73
Anthracene		U	2790	mg/kg	0.50							< 0.50
Carbazole		U	2790	mg/kg	0.50							< 0.50
Di-N-Butyl Phthalate		N	2790	mg/kg	0.50							< 0.50
Fluoranthene		U	2790	mg/kg	0.50							2.2
Pyrene		U	2790	mg/kg	0.50							2.4
Butylbenzyl Phthalate		N	2790	mg/kg	0.50							< 0.50
Benzo[a]anthracene		U	2790	mg/kg	0.50							1.3
Chrysene		U	2790	mg/kg	0.50							1.2
Bis(2-Ethylhexyl)Phthalate		N	2790	mg/kg	0.50							< 0.50
Di-N-Octyl Phthalate		N	2790	mg/kg	0.50							< 0.50
Benzo[b]fluoranthene		U	2790	mg/kg	0.50							1.7
Benzo[k]fluoranthene		U	2790	mg/kg	0.50							0.56
Benzo[a]pyrene		U	2790	mg/kg	0.50							1.4
Indeno(1,2,3-c,d)Pyrene		N	2790	mg/kg	0.50							0.69
Dibenz(a,h)Anthracene		N	2790	mg/kg	0.50							< 0.50
Benzo[g,h,i]perylene		U	2790	mg/kg	0.50							0.81
Naphthalene		U	2800	mg/kg	0.10	< 0.10	0.50	0.17	< 0.10	< 0.10	< 0.10	
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	< 0.10	0.16	< 0.10	< 0.10	< 0.10	
Acenaphthene		U	2800	mg/kg	0.10	< 0.10	0.46	0.61	< 0.10	< 0.10	< 0.10	
Fluorene		U	2800	mg/kg	0.10	< 0.10	0.38	0.61	< 0.10	< 0.10	< 0.10	
Phenanthrene		U	2800	mg/kg	0.10	1.9	2.1	5.9	0.19	0.49	< 0.10	
Anthracene		U	2800	mg/kg	0.10	0.58	0.51	1.8	< 0.10	0.17	< 0.10	

Results - Soil

Project: 24/3980 - Thorney Lane

Client: Concept Engineering Consultants		Chemtest Job No.:		24-23868	24-23868	24-23868	24-23868	24-23868	24-23868	24-23868		
Quotation No.: Q24-34527		Chemtest Sample ID.:		1841215	1841216	1841217	1841218	1841219	1841220	1841221		
		Client Sample ID.:		1	2	3	4	5	6	7		
		Sample Location:		BH24-05	BH24-05	DS24-06	DS24-06	BH24-06	BH24-06	BH24-09		
		Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL		
		Top Depth (m):		0.4	1.2	0.3	1.0	0.3	1.2	0.25		
		Date Sampled:		23-Jul-2024	23-Jul-2024	23-Jul-2024	23-Jul-2024	22-Jul-2024	22-Jul-2024	22-Jul-2024		
		Asbestos Lab:		DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM		
Determinand	HWOL Code	Accred.	SOP	Units	LOD							
Fluoranthene		U	2800	mg/kg	0.10	5.0	2.3	11	0.61	1.4	0.25	
Pyrene		U	2800	mg/kg	0.10	4.6	2.1	8.6	0.57	1.6	0.20	
Benzo[a]anthracene		U	2800	mg/kg	0.10	2.2	0.89	4.3	0.28	0.83	< 0.10	
Chrysene		U	2800	mg/kg	0.10	2.1	0.67	3.8	0.18	0.78	< 0.10	
Benzo[b]fluoranthene		U	2800	mg/kg	0.10	2.7	1.1	5.3	< 0.10	1.4	< 0.10	
Benzo[k]fluoranthene		U	2800	mg/kg	0.10	0.98	0.40	1.9	0.11	0.47	< 0.10	
Benzo[a]pyrene		U	2800	mg/kg	0.10	2.2	0.84	4.3	0.25	0.95	< 0.10	
Indeno(1,2,3-c,d)Pyrene		U	2800	mg/kg	0.10	1.5	< 0.10	2.5	< 0.10	0.69	< 0.10	
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	< 0.10	0.47	< 0.10	0.17	< 0.10	
Benzo[g,h,i]perylene		U	2800	mg/kg	0.10	1.4	< 0.10	2.4	< 0.10	0.67	< 0.10	
Total Of 16 PAH's		N	2800	mg/kg	2.0	25	12	54	2.2	9.6	< 2.0	
PCB 81		N	2815	mg/kg	0.010		< 0.010				< 0.010	
PCB 77		U	2815	mg/kg	0.010		< 0.010				< 0.010	
PCB 105		N	2815	mg/kg	0.010		< 0.010				< 0.010	
PCB 114		N	2815	mg/kg	0.010		< 0.010				< 0.010	
PCB 118		N	2815	mg/kg	0.010		< 0.010				< 0.010	
PCB 123		N	2815	mg/kg	0.010		< 0.010				< 0.010	
PCB 126		N	2815	mg/kg	0.010		< 0.010				< 0.010	
PCB 156		N	2815	mg/kg	0.010		< 0.010				< 0.010	
PCB 157		N	2815	mg/kg	0.010		< 0.010				< 0.010	
PCB 167		N	2815	mg/kg	0.010		< 0.010				< 0.010	
PCB 169		N	2815	mg/kg	0.010		< 0.010				< 0.010	
PCB 189		N	2815	mg/kg	0.010		< 0.010				< 0.010	
Total PCBs (12 Congeners)		N	2815	mg/kg	0.12		< 0.12				< 0.12	
Total Phenols		U	2920	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.13	0.16	1.8

Results - Soil

Project: 24/3980 - Thorney Lane

Client: Concept Engineering Consultants		Chemtest Job No.:		24-23868	24-23868		
Quotation No.: Q24-34527		Chemtest Sample ID.:		1841222	1841223		
		Client Sample ID.:		8			
		Sample Location:		BH24-09	DS24-06		
		Sample Type:		SOIL	SOIL		
		Top Depth (m):		1.20	1.20		
		Date Sampled:		22-Jul-2024	23-Jul-2024		
		Asbestos Lab:		DURHAM	DURHAM		
Determinand	HWOL Code	Accred.	SOP	Units	LOD		
ACM Type		U	2192		N/A	Fibres/Clumps	-
Asbestos Identification		U	2192		N/A	Chrysotile	No Asbestos Detected
Asbestos by Gravimetry		U	2192	%	0.001	<0.001	
Total Asbestos		U	2192	%	0.001	<0.001	
Moisture		N	2030	%	0.020	15	9.7
Soil Colour		N	2040		N/A	Brown	Brown
Other Material		N	2040		N/A	Stones	Stones
Soil Texture		N	2040		N/A	Sand	Sand
pH at 20C		U	2010		4.0	8.3	8.6
Boron (Hot Water Soluble)		U	2120	mg/kg	0.40	1.9	1.4
Cyanide (Complex)		U	2300	mg/kg	0.50		
Cyanide (Free)		U	2300	mg/kg	0.50		
Cyanide (Total)		U	2300	mg/kg	0.50	0.70	< 0.50
Thiocyanate		U	2300	mg/kg	5.0		
Arsenic		U	2455	mg/kg	0.5	19	7.8
Beryllium		U	2455	mg/kg	0.5	1.2	< 0.5
Cadmium		U	2455	mg/kg	0.10	0.28	< 0.10
Chromium		U	2455	mg/kg	0.5	35	15
Antimony		N	2455	mg/kg	2.0	2.2	< 2.0
Copper		U	2455	mg/kg	0.50	71	570
Mercury		U	2455	mg/kg	0.05	2.0	< 0.05
Nickel		U	2455	mg/kg	0.50	39	58
Lead		U	2455	mg/kg	0.50	460	16
Selenium		U	2455	mg/kg	0.25	0.82	< 0.25
Vanadium		U	2455	mg/kg	0.5	52	24
Zinc		U	2455	mg/kg	0.50	470	130
Chromium (Hexavalent)		N	2490	mg/kg	0.50	< 0.50	< 0.50
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10	< 0.10	< 0.10
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	< 0.25	< 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	U	2690	mg/kg	2.00	< 2.0	< 2.0
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	U	2690	mg/kg	1.00	< 1.0	< 1.0
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	U	2690	mg/kg	2.00	< 2.0	15

Results - Soil

Project: 24/3980 - Thorney Lane

Client: Concept Engineering Consultants		Chemtest Job No.:		24-23868	24-23868		
Quotation No.: Q24-34527		Chemtest Sample ID.:		1841222	1841223		
		Client Sample ID.:		8			
		Sample Location:		BH24-09	DS24-06		
		Sample Type:		SOIL	SOIL		
		Top Depth (m):		1.20	1.20		
		Date Sampled:		22-Jul-2024	23-Jul-2024		
		Asbestos Lab:		DURHAM	DURHAM		
Determinand	HWOL Code	Accred.	SOP	Units	LOD		
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	U	2690	mg/kg	3.00	< 3.0	210
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	< 10	98
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	U	2690	mg/kg	5.00	< 5.0	220
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	< 10	320
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	< 0.25	< 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	< 1.0
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	< 1.0
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	< 2.0	7.4
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	< 2.0	9.7
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	21	21
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	< 5.0	17
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	21	38
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	< 0.50	< 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	< 10	240
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	21	360
Total Organic Carbon		U	2625	%	0.20	2.1	0.23
Dichlorodifluoromethane		U	2760	µg/kg	1.0		
Chloromethane		U	2760	µg/kg	1.0		
Vinyl Chloride		U	2760	µg/kg	1.0		
Bromomethane		U	2760	µg/kg	20		
Chloroethane		U	2760	µg/kg	2.0		
Trichlorofluoromethane		U	2760	µg/kg	1.0		
1,1-Dichloroethene		U	2760	µg/kg	1.0		
Dichloromethane		N	2760	µg/kg	50		
Trans 1,2-Dichloroethene		U	2760	µg/kg	1.0		
1,1-Dichloroethane		U	2760	µg/kg	1.0		
cis 1,2-Dichloroethene		U	2760	µg/kg	1.0		
Bromochloromethane		U	2760	µg/kg	5.0		
Trichloromethane		U	2760	µg/kg	1.0		
1,1,1-Trichloroethane		U	2760	µg/kg	1.0		
Tetrachloromethane		U	2760	µg/kg	1.0		
1,1-Dichloropropene		U	2760	µg/kg	1.0		
Benzene		U	2760	mg/kg	0.0010	< 0.0010	< 0.0010
Benzene		U	2760	µg/kg	1.0		

Results - Soil

Project: 24/3980 - Thorney Lane

Client: Concept Engineering Consultants		Chemtest Job No.:		24-23868	24-23868		
Quotation No.: Q24-34527		Chemtest Sample ID.:		1841222	1841223		
		Client Sample ID.:		8			
		Sample Location:		BH24-09	DS24-06		
		Sample Type:		SOIL	SOIL		
		Top Depth (m):		1.20	1.20		
		Date Sampled:		22-Jul-2024	23-Jul-2024		
		Asbestos Lab:		DURHAM	DURHAM		
Determinand	HWOL Code	Accred.	SOP	Units	LOD		
1,2-Dichloroethane		U	2760	µg/kg	2.0		
Trichloroethene		N	2760	µg/kg	1.0		
1,2-Dichloropropane		U	2760	µg/kg	1.0		
Dibromomethane		U	2760	µg/kg	1.0		
Bromodichloromethane		U	2760	µg/kg	5.0		
cis-1,3-Dichloropropene		N	2760	µg/kg	10		
Toluene		U	2760	mg/kg	0.0010	< 0.0010	< 0.0010
Toluene		U	2760	µg/kg	1.0		
Trans-1,3-Dichloropropene		N	2760	µg/kg	10		
1,1,2-Trichloroethane		U	2760	µg/kg	10		
Tetrachloroethene		U	2760	µg/kg	1.0		
1,3-Dichloropropane		U	2760	µg/kg	2.0		
Dibromochloromethane		U	2760	µg/kg	10		
1,2-Dibromoethane		U	2760	µg/kg	5.0		
Chlorobenzene		U	2760	µg/kg	1.0		
1,1,1,2-Tetrachloroethane		U	2760	µg/kg	2.0		
Ethylbenzene		U	2760	mg/kg	0.0010	< 0.0010	< 0.0010
Ethylbenzene		U	2760	µg/kg	1.0		
m & p-Xylene		U	2760	mg/kg	0.0010	< 0.0010	< 0.0010
m & p-Xylene		U	2760	µg/kg	1.0		
o-Xylene		U	2760	mg/kg	0.0010	< 0.0010	< 0.0010
o-Xylene		U	2760	µg/kg	1.0		
Styrene		U	2760	µg/kg	1.0		
Tribromomethane		U	2760	µg/kg	1.0		
Isopropylbenzene		U	2760	µg/kg	1.0		
Bromobenzene		U	2760	µg/kg	1.0		
1,2,3-Trichloropropane		N	2760	µg/kg	50		
N-Propylbenzene		U	2760	µg/kg	1.0		
2-Chlorotoluene		U	2760	µg/kg	1.0		
1,3,5-Trimethylbenzene		U	2760	µg/kg	1.0		
4-Chlorotoluene		U	2760	µg/kg	1.0		
Tert-Butylbenzene		U	2760	µg/kg	1.0		
1,2,4-Trimethylbenzene		U	2760	µg/kg	1.0		
Sec-Butylbenzene		U	2760	µg/kg	1.0		
1,3-Dichlorobenzene		U	2760	µg/kg	1.0		
4-Isopropyltoluene		U	2760	µg/kg	1.0		
1,4-Dichlorobenzene		U	2760	µg/kg	1.0		

Results - Soil

Project: 24/3980 - Thorney Lane

Client: Concept Engineering Consultants		Chemtest Job No.:				24-23868	24-23868
Quotation No.: Q24-34527		Chemtest Sample ID.:				1841222	1841223
		Client Sample ID.:				8	
		Sample Location:				BH24-09	DS24-06
		Sample Type:				SOIL	SOIL
		Top Depth (m):				1.20	1.20
		Date Sampled:				22-Jul-2024	23-Jul-2024
		Asbestos Lab:				DURHAM	DURHAM
Determinand	HWOL Code	Accred.	SOP	Units	LOD		
N-Butylbenzene		U	2760	µg/kg	1.0		
1,2-Dichlorobenzene		U	2760	µg/kg	1.0		
1,2-Dibromo-3-Chloropropane		U	2760	µg/kg	50		
1,2,4-Trichlorobenzene		U	2760	µg/kg	1.0		
Hexachlorobutadiene		N	2760	µg/kg	1.0		
1,2,3-Trichlorobenzene		U	2760	µg/kg	2.0		
Methyl Tert-Butyl Ether		U	2760	mg/kg	0.0010	< 0.0010	< 0.0010
Methyl Tert-Butyl Ether		U	2760	µg/kg	1.0		
N-Nitrosodimethylamine		U	2790	mg/kg	0.50		
Phenol		U	2790	mg/kg	0.50		
2-Chlorophenol		N	2790	mg/kg	0.50		
Bis-(2-Chloroethyl)Ether		U	2790	mg/kg	0.50		
1,3-Dichlorobenzene		U	2790	mg/kg	0.50		
1,4-Dichlorobenzene		N	2790	mg/kg	0.50		
1,2-Dichlorobenzene		U	2790	mg/kg	0.50		
2-Methylphenol		U	2790	mg/kg	0.50		
Bis(2-Chloroisopropyl)Ether		U	2790	mg/kg	0.50		
Hexachloroethane		N	2790	mg/kg	0.50		
N-Nitrosodi-n-propylamine		U	2790	mg/kg	0.50		
4-Methylphenol		U	2790	mg/kg	0.50		
Nitrobenzene		N	2790	mg/kg	0.50		
Isophorone		U	2790	mg/kg	0.50		
2-Nitrophenol		N	2790	mg/kg	0.50		
2,4-Dimethylphenol		N	2790	mg/kg	0.50		
Bis(2-Chloroethoxy)Methane		U	2790	mg/kg	0.50		
2,4-Dichlorophenol		N	2790	mg/kg	0.50		
1,2,4-Trichlorobenzene		U	2790	mg/kg	0.50		
Naphthalene		U	2790	mg/kg	0.50		
4-Chloroaniline		N	2790	mg/kg	0.50		
Hexachlorobutadiene		U	2790	mg/kg	0.50		
4-Chloro-3-Methylphenol		N	2790	mg/kg	0.50		
2-Methylnaphthalene		U	2790	mg/kg	0.50		
4-Nitrophenol		N	2790	mg/kg	0.50		
2,4,6-Trichlorophenol		N	2790	mg/kg	0.50		
2,4,5-Trichlorophenol		N	2790	mg/kg	0.50		
2-Chloronaphthalene		U	2790	mg/kg	0.50		
2-Nitroaniline		N	2790	mg/kg	0.50		

Results - Soil

Project: 24/3980 - Thorney Lane

Client: Concept Engineering Consultants		Chemtest Job No.:				24-23868	24-23868
Quotation No.: Q24-34527		Chemtest Sample ID.:				1841222	1841223
		Client Sample ID.:				8	
		Sample Location:				BH24-09	DS24-06
		Sample Type:				SOIL	SOIL
		Top Depth (m):				1.20	1.20
		Date Sampled:				22-Jul-2024	23-Jul-2024
		Asbestos Lab:				DURHAM	DURHAM
Determinand	HWOL Code	Accred.	SOP	Units	LOD		
Acenaphthylene		U	2790	mg/kg	0.50		
Dimethylphthalate		U	2790	mg/kg	0.50		
2,6-Dinitrotoluene		N	2790	mg/kg	0.50		
Acenaphthene		U	2790	mg/kg	0.50		
3-Nitroaniline		N	2790	mg/kg	0.50		
Dibenzofuran		U	2790	mg/kg	0.50		
4-Chlorophenylphenylether		U	2790	mg/kg	0.50		
2,4-Dinitrotoluene		N	2790	mg/kg	0.50		
Fluorene		U	2790	mg/kg	0.50		
Diethyl Phthalate		U	2790	mg/kg	0.50		
4-Nitroaniline		N	2790	mg/kg	0.50		
Azobenzene		U	2790	mg/kg	0.50		
4-Bromophenylphenyl Ether		U	2790	mg/kg	0.50		
Hexachlorobenzene		U	2790	mg/kg	0.50		
Phenanthrene		U	2790	mg/kg	0.50		
Anthracene		U	2790	mg/kg	0.50		
Carbazole		U	2790	mg/kg	0.50		
Di-N-Butyl Phthalate		N	2790	mg/kg	0.50		
Fluoranthene		U	2790	mg/kg	0.50		
Pyrene		U	2790	mg/kg	0.50		
Butylbenzyl Phthalate		N	2790	mg/kg	0.50		
Benzo[a]anthracene		U	2790	mg/kg	0.50		
Chrysene		U	2790	mg/kg	0.50		
Bis(2-Ethylhexyl)Phthalate		N	2790	mg/kg	0.50		
Di-N-Octyl Phthalate		N	2790	mg/kg	0.50		
Benzo[b]fluoranthene		U	2790	mg/kg	0.50		
Benzo[k]fluoranthene		U	2790	mg/kg	0.50		
Benzo[a]pyrene		U	2790	mg/kg	0.50		
Indeno(1,2,3-c,d)Pyrene		N	2790	mg/kg	0.50		
Dibenz(a,h)Anthracene		N	2790	mg/kg	0.50		
Benzo[g,h,i]perylene		U	2790	mg/kg	0.50		
Naphthalene		U	2800	mg/kg	0.10	0.17	< 0.10
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	< 0.10
Acenaphthene		U	2800	mg/kg	0.10	0.17	< 0.10
Fluorene		U	2800	mg/kg	0.10	0.16	< 0.10
Phenanthrene		U	2800	mg/kg	0.10	1.7	0.78
Anthracene		U	2800	mg/kg	0.10	0.25	0.21

Results - Soil

Project: 24/3980 - Thorney Lane

Client: Concept Engineering Consultants		Chemtest Job No.:		24-23868	24-23868		
Quotation No.: Q24-34527		Chemtest Sample ID.:		1841222	1841223		
		Client Sample ID.:		8			
		Sample Location:		BH24-09	DS24-06		
		Sample Type:		SOIL	SOIL		
		Top Depth (m):		1.20	1.20		
		Date Sampled:		22-Jul-2024	23-Jul-2024		
		Asbestos Lab:		DURHAM	DURHAM		
Determinand	HWOL Code	Accred.	SOP	Units	LOD		
Fluoranthene		U	2800	mg/kg	0.10	2.9	1.6
Pyrene		U	2800	mg/kg	0.10	2.1	1.5
Benzo[a]anthracene		U	2800	mg/kg	0.10	1.1	0.65
Chrysene		U	2800	mg/kg	0.10	0.85	0.65
Benzo[b]fluoranthene		U	2800	mg/kg	0.10	1.7	0.65
Benzo[k]fluoranthene		U	2800	mg/kg	0.10	0.54	0.21
Benzo[a]pyrene		U	2800	mg/kg	0.10	1.2	0.49
Indeno(1,2,3-c,d)Pyrene		U	2800	mg/kg	0.10	0.92	< 0.10
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene		U	2800	mg/kg	0.10	1.0	< 0.10
Total Of 16 PAH's		N	2800	mg/kg	2.0	15	6.7
PCB 81		N	2815	mg/kg	0.010		
PCB 77		U	2815	mg/kg	0.010		
PCB 105		N	2815	mg/kg	0.010		
PCB 114		N	2815	mg/kg	0.010		
PCB 118		N	2815	mg/kg	0.010		
PCB 123		N	2815	mg/kg	0.010		
PCB 126		N	2815	mg/kg	0.010		
PCB 156		N	2815	mg/kg	0.010		
PCB 157		N	2815	mg/kg	0.010		
PCB 167		N	2815	mg/kg	0.010		
PCB 169		N	2815	mg/kg	0.010		
PCB 189		N	2815	mg/kg	0.010		
Total PCBs (12 Congeners)		N	2815	mg/kg	0.12		
Total Phenols		U	2920	mg/kg	0.10	< 0.10	< 0.10

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
1020	Electrical Conductivity and Total Dissolved Solids (TDS) in Waters	Electrical Conductivity at 25°C and Total Dissolved Solids (TDS) in Waters	Conductivity Meter	
1220	Anions, Alkalinity & Ammonium in Waters	Fluoride; Chloride; Nitrite; Nitrate; Total; Oxidisable Nitrogen (TON); Sulfate; Phosphate; Alkalinity; Ammonium	Automated colorimetric analysis using 'Aquakem 600' Discrete Analyser.	
1455	Metals in Waters by ICP-MS	Metals, including: Antimony; Arsenic; Barium; Beryllium; Boron; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Tin; Vanadium; Zinc	Filtration of samples followed by direct determination by inductively coupled plasma mass spectrometry (ICP-MS).	
1610	Total/Dissolved Organic Carbon in Waters	Organic Carbon	TOC Analyser using Catalytic Oxidation	
1920	Phenols in Waters by HPLC	Phenolic compounds including: Phenol, Cresols, Xylenols, Trimethylphenols Note: Chlorophenols are excluded.	Determination by High Performance Liquid Chromatography (HPLC) using electrochemical detection.	
2010	pH Value of Soils	pH at 20°C	pH Meter	
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <30°C.	
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930	
2120	Water Soluble Boron, Sulphate, Magnesium & Chromium	Boron; Sulphate; Magnesium; Chromium	Aqueous extraction / ICP-OES	
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry	
2300	Cyanides & Thiocyanate in Soils	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Alkaline extraction followed by colorimetric determination using Automated Flow Injection Analyser.	
2455	Acid Soluble Metals in Soils	Metals, including: Arsenic; Barium; Beryllium; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Vanadium; Zinc	Acid digestion followed by determination of metals in extract by ICP-MS.	
2490	Hexavalent Chromium in Soils	Chromium [VI]	Soil extracts are prepared by extracting dried and ground soil samples into boiling water. Chromium [VI] is determined by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazine.	
2625	Total Organic Carbon in Soils	Total organic Carbon (TOC)	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.	
2690	EPH A/A Split	Aliphatics: >C10–C12, >C12–C16, >C16–C21, >C21– C35, >C35– C40 Aromatics: >C10–C12, >C12–C16, >C16–C21, >C21– C35, >C35– C40	Acetone/Heptane extraction / GCxGC FID detection	
2760	Volatile Organic Compounds (VOCs) in Soils by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics.(cf. USEPA Method 8260)*please refer to UKAS schedule	Automated headspace gas chromatographic (GC) analysis of a soil sample, as received, with mass spectrometric (MS) detection of volatile organic compounds.	
2780	VPH A/A Split	Aliphatics: >C5–C6, >C6–C7,>C7–C8,>C8–C10 Aromatics: >C5–C7,>C7–C8,>C8–C10	Water extraction / Headspace GCxGC FID detection	
2790	Semi-Volatile Organic Compounds (SVOCs) in Soils by GC-MS	Semi-volatile organic compounds(cf. USEPA Method 8270)	Acetone/Hexane extraction / GC-MS	
2800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-MS	Acenaphthene*; Acenaphthylene; Anthracene*; Benzo[a]Anthracene*; Benzo[a]Pyrene*; Benzo[b]Fluoranthene*; Benzo[ghi]Perylene*; Benzo[k]Fluoranthene; Chrysene*; Dibenz[ah]Anthracene; Fluoranthene*; Fluorene*; Indeno[123cd]Pyrene*; Naphthalene*; Phenanthrene*; Pyrene*	Dichloromethane extraction / GC-MS	

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
2810	Polychlorinated Biphenyls (PCB) as Aroclors in Soils by GC-ECD	Polychlorinated Biphenyls expressed as an Aroclor (normally reported as *Aroclor 1242)	Extraction of a soil sample, as received, into hexane/acetone (50:50) followed by gas chromatography (GC) using mass spectrometric (MS) detection for identification of polychlorinated biphenyls and electron capture detection (ECD) for quantitation if present.	
2815	Polychlorinated Biphenyls (PCB) ICES7Congeners in Soils by GC-MS	ICES7 PCB congeners	Acetone/Hexane extraction / GC-MS. Reported PCB 101 results may contain contributions from PCB 90 due to inseparable chromatography.	
2920	Phenols in Soils by HPLC	Phenolic compounds including Resorcinol, Phenol, Methylphenols, Dimethylphenols, 1-Naphthol and Trimethylphenols Note: chlorophenols are excluded.	60:40 methanol/water mixture extraction, followed by HPLC determination using electrochemical detection.	
640	Characterisation of Waste (Leaching C10)	Waste material including soil, sludges and granular waste	Compliance Test for Leaching of Granular Waste Material and Sludge	

Report Information

Key

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

This report shall not be reproduced except in full, and only with the prior approval of the laboratory.

Any comments or interpretations are outside the scope of UKAS accreditation.

The Laboratory is not accredited for any sampling activities and reported results relate to the samples 'as received' at the laboratory.

Uncertainty of measurement for the determinands tested are available upon request .

None of the results in this report have been recovery corrected.

All results are expressed on a dry weight basis.

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

For all other tests the samples were dried at $\leq 30^{\circ}\text{C}$ prior to analysis.

All Asbestos testing is performed at the indicated laboratory .

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

Sample Deviation Codes

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

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt.

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

Charges may apply to extended sample storage.

Water Sample Category Key for Accreditation

- DW - Drinking Water
- GW - Ground Water
- LE - Land Leachate
- NA - Not Applicable

Report Information

PL - Prepared Leachate
PW - Processed Water
RE - Recreational Water
SA - Saline Water
SW - Surface Water
TE - Treated Effluent
TS - Treated Sewage
UL - Unspecified Liquid

Clean Up Codes

NC - No Clean Up
MC - Mathematical Clean Up
FC - Florisil Clean Up

HWOL Acronym System

HS - Headspace analysis
EH - Extractable hydrocarbons – i.e. everything extracted by the solvent
CU - Clean-up – e.g. by Florisil, silica gel
1D - GC – Single coil gas chromatography
Total - Aliphatics & Aromatics
AL - Aliphatics only
AR - Aromatic only
2D - GC-GC – Double coil gas chromatography
#1 - EH_2D_Total but with humics mathematically subtracted
#2 - EH_2D_Total but with fatty acids mathematically subtracted
+ - Operator to indicate cumulative e.g. EH+EH_Total or EH_CU+HS_Total

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



Final Report

Report No.: 24-24110-1

Initial Date of Issue: 12-Aug-2024

Re-Issue Details:

Client Concept Engineering Consultants

Client Address: 47 - 49 Brunel Road
London
W3 7XR

Contact(s): Kasia Mazerant
Lab
Gabriela Mandache

Project 24/3980 Thorney Lane

Quotation No.: Q24-34527 **Date Received:** 29-Jul-2024

Order No.: 103108 (CL6106) **Date Instructed:** 30-Jul-2024

No. of Samples: 5

Turnaround (Wkdays): 5 **Results Due:** 05-Aug-2024

Date Approved: 12-Aug-2024

Approved By:

Details: David Smith, Technical Director

For details about application of accreditation to specific matrix types, please refer to the Table at the back of this report

Results - Leachate

Project: 24/3980 Thorney Lane

Client: Concept Engineering Consultants		Chemtest Job No.:		24-24110	24-24110		
Quotation No.: Q24-34527		Chemtest Sample ID.:		1842595	1842599		
		Sample Location:		BH24-06	BH24-04		
		Sample Type:		SOIL	SOIL		
		Top Depth (m):		2.50	0.75		
		Date Sampled:		25-Jul-2024	26-Jul-2024		
Determinand	Accred.	SOP	Type	Units	LOD		
Total Dissolved Solids	N	1020	10:1	mg/l	1.0	21	150
Chloride	U	1220	10:1	mg/l	1.0	< 1.0	< 1.0
Fluoride	U	1220	10:1	mg/l	0.050	0.10	0.18
Sulphate	U	1220	10:1	mg/l	1.0	1.2	26
Arsenic (Dissolved)	U	1455	10:1	µg/l	0.20	0.97	0.82
Barium (Dissolved)	U	1455	10:1	µg/l	5.00	< 5.0	< 5.0
Cadmium (Dissolved)	U	1455	10:1	µg/l	0.11	< 0.11	< 0.11
Chromium (Dissolved)	U	1455	10:1	µg/l	0.50	< 0.50	< 0.50
Copper (Dissolved)	U	1455	10:1	µg/l	0.50	< 0.50	2.8
Mercury (Dissolved)	U	1455	10:1	µg/l	0.05	< 0.05	< 0.05
Molybdenum (Dissolved)	U	1455	10:1	µg/l	0.20	< 0.20	1.1
Nickel (Dissolved)	U	1455	10:1	µg/l	0.50	< 0.50	< 0.50
Lead (Dissolved)	U	1455	10:1	µg/l	0.50	< 0.50	< 0.50
Antimony (Dissolved)	U	1455	10:1	µg/l	0.50	< 0.50	2.4
Selenium (Dissolved)	U	1455	10:1	µg/l	0.50	< 0.50	< 0.50
Zinc (Dissolved)	U	1455	10:1	µg/l	2.5	< 2.5	< 2.5
Dissolved Organic Carbon	U	1610	10:1	mg/l	2.0	3.4	2.8
Total Phenols	U	1920	10:1	mg/l	0.030	< 0.030	< 0.030

Results - Soil

Project: 24/3980 Thorney Lane

Client: Concept Engineering Consultants		Chemtest Job No.:		24-24110	24-24110	24-24110	24-24110	24-24110
Quotation No.: Q24-34527		Chemtest Sample ID.:		1842595	1842596	1842597	1842598	1842599
		Sample Location:		BH24-06	BH24-06	BH24-09	BH24-09	BH24-04
		Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):		2.50	3.30	2.50	3.30	0.75
		Date Sampled:		25-Jul-2024	25-Jul-2024	25-Jul-2024	25-Jul-2024	26-Jul-2024
		Asbestos Lab:				NEW-ASB		NEW-ASB
Determinand	HWOL Code	Accred.	SOP	Units	LOD			
ACM Type		U	2192		N/A			-
Asbestos Identification		U	2192		N/A			No Asbestos Detected
Moisture		N	2030	%	0.020	4.1	19	17
Soil Colour		N	2040		N/A	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones	None	None
Soil Texture		N	2040		N/A	Gravel	Clay	Clay
pH at 20C		M	2010		4.0	8.6	8.3	8.2
Boron (Hot Water Soluble)		M	2120	mg/kg	0.40	< 0.40	0.51	0.70
Cyanide (Complex)		M	2300	mg/kg	0.50			
Cyanide (Free)		M	2300	mg/kg	0.50			
Cyanide (Total)		M	2300	mg/kg	0.50	< 0.50	< 0.50	< 0.50
Thiocyanate		M	2300	mg/kg	5.0			
Arsenic		M	2455	mg/kg	0.5	2.7	13	5.7
Beryllium		U	2455	mg/kg	0.5	< 0.5	0.8	< 0.5
Cadmium		M	2455	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Chromium		M	2455	mg/kg	0.5	8.0	40	27
Antimony		N	2455	mg/kg	2.0	< 2.0	< 2.0	< 2.0
Copper		M	2455	mg/kg	0.50	2.5	24	13
Mercury		M	2455	mg/kg	0.05	< 0.05	0.05	< 0.05
Nickel		M	2455	mg/kg	0.50	6.0	46	24
Lead		M	2455	mg/kg	0.50	2.8	19	13
Selenium		M	2455	mg/kg	0.25	< 0.25	0.64	0.40
Vanadium		U	2455	mg/kg	0.5	6.2	42	34
Zinc		M	2455	mg/kg	0.50	8.2	60	37
Chromium (Hexavalent)		N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	< 2.0	< 2.0	< 2.0
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	< 1.0	< 1.0	4.4
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	< 2.0	< 2.0	3.2
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	< 3.0	4.3	6.8
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	< 10	< 10	< 10
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	< 5.0	< 5.0	16

Results - Soil

Project: 24/3980 Thorney Lane

Client: Concept Engineering Consultants		Chemtest Job No.:		24-24110	24-24110	24-24110	24-24110	24-24110		
Quotation No.: Q24-34527		Chemtest Sample ID.:		1842595	1842596	1842597	1842598	1842599		
		Sample Location:		BH24-06	BH24-06	BH24-09	BH24-09	BH24-04		
		Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL		
		Top Depth (m):		2.50	3.30	2.50	3.30	0.75		
		Date Sampled:		25-Jul-2024	25-Jul-2024	25-Jul-2024	25-Jul-2024	26-Jul-2024		
		Asbestos Lab:				NEW-ASB		NEW-ASB		
Determinand	HWOL Code	Accred.	SOP	Units	LOD					
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	< 10	< 10	16	< 10	42
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	< 2.0	2.1	< 2.0	< 2.0	15
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	< 2.0	< 2.0	< 2.0	< 2.0	15
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	< 1.0	1.9	3.1	22	4.4
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	< 5.0	< 5.0	< 5.0	< 5.0	30
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	< 10	< 10	< 10	22	35
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	< 10	< 10	18	< 10	59
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	< 10	< 10	21	22	77
Total Organic Carbon		M	2625	%	0.20	0.31	0.25	0.58	0.53	2.9
Benzene		M	2760	mg/kg	0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
Toluene		M	2760	mg/kg	0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
Ethylbenzene		M	2760	mg/kg	0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
m & p-Xylene		M	2760	mg/kg	0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
o-Xylene		M	2760	mg/kg	0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
Methyl Tert-Butyl Ether		M	2760	mg/kg	0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
Naphthalene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.87
Anthracene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.26
Fluoranthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	1.7
Pyrene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	1.6
Benzo[a]anthracene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.80
Chrysene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.77
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	1.1
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.43
Benzo[a]pyrene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.99
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.66
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.60

Results - Soil

Project: 24/3980 Thorney Lane

Client: Concept Engineering Consultants		Chemtest Job No.:				24-24110	24-24110	24-24110	24-24110	24-24110
Quotation No.: Q24-34527		Chemtest Sample ID.:				1842595	1842596	1842597	1842598	1842599
		Sample Location:				BH24-06	BH24-06	BH24-09	BH24-09	BH24-04
		Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):				2.50	3.30	2.50	3.30	0.75
		Date Sampled:				25-Jul-2024	25-Jul-2024	25-Jul-2024	25-Jul-2024	26-Jul-2024
		Asbestos Lab:						NEW-ASB		NEW-ASB
Determinand	HWOL Code	Accred.	SOP	Units	LOD					
Total Of 16 PAH's		N	2800	mg/kg	2.0	< 2.0	< 2.0	< 2.0	< 2.0	9.8
Total Phenols		M	2920	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
1020	Electrical Conductivity and Total Dissolved Solids (TDS) in Waters	Electrical Conductivity at 25°C and Total Dissolved Solids (TDS) in Waters	Conductivity Meter	
1220	Anions, Alkalinity & Ammonium in Waters	Fluoride; Chloride; Nitrite; Nitrate; Total; Oxidisable Nitrogen (TON); Sulfate; Phosphate; Alkalinity; Ammonium	Automated colorimetric analysis using 'Aquakem 600' Discrete Analyser.	
1455	Metals in Waters by ICP-MS	Metals, including: Antimony; Arsenic; Barium; Beryllium; Boron; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Tin; Vanadium; Zinc	Filtration of samples followed by direct determination by inductively coupled plasma mass spectrometry (ICP-MS).	
1610	Total/Dissolved Organic Carbon in Waters	Organic Carbon	TOC Analyser using Catalytic Oxidation	
1920	Phenols in Waters by HPLC	Phenolic compounds including: Phenol, Cresols, Xylenols, Trimethylphenols Note: Chlorophenols are excluded.	Determination by High Performance Liquid Chromatography (HPLC) using electrochemical detection.	
2010	pH Value of Soils	pH at 20°C	pH Meter	
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <30°C.	
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930	
2120	Water Soluble Boron, Sulphate, Magnesium & Chromium	Boron; Sulphate; Magnesium; Chromium	Aqueous extraction / ICP-OES	
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry	
2300	Cyanides & Thiocyanate in Soils	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Alkaline extraction followed by colorimetric determination using Automated Flow Injection Analyser.	
2455	Acid Soluble Metals in Soils	Metals, including: Arsenic; Barium; Beryllium; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Vanadium; Zinc	Acid digestion followed by determination of metals in extract by ICP-MS.	
2490	Hexavalent Chromium in Soils	Chromium [VI]	Soil extracts are prepared by extracting dried and ground soil samples into boiling water. Chromium [VI] is determined by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazine.	
2625	Total Organic Carbon in Soils	Total organic Carbon (TOC)	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.	
2690	EPH A/A Split	Aliphatics: >C10-C12, >C12-C16, >C16-C21, >C21- C35, >C35- C40 Aromatics: >C10-C12, >C12-C16, >C16-C21, >C21- C35, >C35- C40	Acetone/Heptane extraction / GCxGC FID detection	
2760	Volatile Organic Compounds (VOCs) in Soils by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics.(cf. USEPA Method 8260)*please refer to UKAS schedule	Automated headspace gas chromatographic (GC) analysis of a soil sample, as received, with mass spectrometric (MS) detection of volatile organic compounds.	
2780	VPH A/A Split	Aliphatics: >C5-C6, >C6-C7,>C7-C8,>C8-C10 Aromatics: >C5-C7,>C7-C8,>C8-C10	Water extraction / Headspace GCxGC FID detection	
2800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-MS	Acenaphthene*; Acenaphthylene; Anthracene*; Benzo[a]Anthracene*; Benzo[a]Pyrene*; Benzo[b]Fluoranthene*; Benzo[ghi]Perylene*; Benzo[k]Fluoranthene; Chrysene*; Dibenz[ah]Anthracene; Fluoranthene*; Fluorene*; Indeno[123cd]Pyrene*; Naphthalene*; Phenanthrene*; Pyrene*	Dichloromethane extraction / GC-MS	
2920	Phenols in Soils by HPLC	Phenolic compounds including Resorcinol, Phenol, Methylphenols, Dimethylphenols, 1-Naphthol and TrimethylphenolsNote: chlorophenols are excluded.	60:40 methanol/water mixture extraction, followed by HPLC determination using electrochemical detection.	
640	Characterisation of Waste (Leaching C10)	Waste material including soil, sludges and granular waste	Compliance Test for Leaching of Granular Waste Material and Sludge	

Report Information

Key

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

This report shall not be reproduced except in full, and only with the prior approval of the laboratory.

Any comments or interpretations are outside the scope of UKAS accreditation.

The Laboratory is not accredited for any sampling activities and reported results relate to the samples 'as received' at the laboratory.

Uncertainty of measurement for the determinands tested are available upon request .

None of the results in this report have been recovery corrected.

All results are expressed on a dry weight basis.

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

For all other tests the samples were dried at $\leq 30^{\circ}\text{C}$ prior to analysis.

All Asbestos testing is performed at the indicated laboratory .

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

Sample Deviation Codes

A - Date of sampling not supplied

B - Sample age exceeds stability time (sampling to extraction)

C - Sample not received in appropriate containers

D - Broken Container

E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt.

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

Charges may apply to extended sample storage.

Water Sample Category Key for Accreditation

DW - Drinking Water

GW - Ground Water

LE - Land Leachate

NA - Not Applicable

Report Information

PL - Prepared Leachate
PW - Processed Water
RE - Recreational Water
SA - Saline Water
SW - Surface Water
TE - Treated Effluent
TS - Treated Sewage
UL - Unspecified Liquid

Clean Up Codes

NC - No Clean Up
MC - Mathematical Clean Up
FC - Florisil Clean Up

HWOL Acronym System

HS - Headspace analysis
EH - Extractable hydrocarbons – i.e. everything extracted by the solvent
CU - Clean-up – e.g. by Florisil, silica gel
1D - GC – Single coil gas chromatography
Total - Aliphatics & Aromatics
AL - Aliphatics only
AR - Aromatic only
2D - GC-GC – Double coil gas chromatography
#1 - EH_2D_Total but with humics mathematically subtracted
#2 - EH_2D_Total but with fatty acids mathematically subtracted
+ - Operator to indicate cumulative e.g. EH+EH_Total or EH_CU+HS_Total

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



Final Report

Report No.: 24-24198-1

Initial Date of Issue: 12-Aug-2024

Re-Issue Details:

Client Concept Engineering Consultants

Client Address: 47 -49 Brunel Road
London
W3 7XR

Contact(s): Gabriela Mandache
Kasia Mazerant
Lab

Project 24/3980 Thorney Lane

Quotation No.: Q24-34527 **Date Received:** 30-Jul-2024

Order No.: 103115 (CL6112) 103122 (CL6113) **Date Instructed:** 31-Jul-2024

No. of Samples: 4

Turnaround (Wkdays): 5 **Results Due:** 06-Aug-2024

Date Approved: 12-Aug-2024

Approved By:

Details: David Smith, Technical Director

For details about application of accreditation to specific matrix types, please refer to the Table at the back of this report

Results - Leachate

Project: 24/3980 Thorney Lane

Client: Concept Engineering Consultants	Chemtest Job No.:		24-24198			
Quotation No.: Q24-34527	Chemtest Sample ID.:		1842953			
	Sample Location:		BH24-04			
	Sample Type:		SOIL			
	Top Depth (m):		1.10			
	Date Sampled:		26-Jul-2024			
Determinand	Accred.	SOP	Type	Units	LOD	
Total Dissolved Solids	N	1020	10:1	mg/l	1.0	190
Chloride	U	1220	10:1	mg/l	1.0	< 1.0
Fluoride	U	1220	10:1	mg/l	0.050	0.18
Sulphate	U	1220	10:1	mg/l	1.0	13
Arsenic (Dissolved)	U	1455	10:1	µg/l	0.20	1.7
Barium (Dissolved)	U	1455	10:1	µg/l	5.00	8.6
Cadmium (Dissolved)	U	1455	10:1	µg/l	0.11	< 0.11
Chromium (Dissolved)	U	1455	10:1	µg/l	0.50	6.1
Copper (Dissolved)	U	1455	10:1	µg/l	0.50	4.3
Mercury (Dissolved)	U	1455	10:1	µg/l	0.05	< 0.05
Molybdenum (Dissolved)	U	1455	10:1	µg/l	0.20	1.8
Nickel (Dissolved)	U	1455	10:1	µg/l	0.50	2.6
Lead (Dissolved)	U	1455	10:1	µg/l	0.50	< 0.50
Antimony (Dissolved)	U	1455	10:1	µg/l	0.50	2.4
Selenium (Dissolved)	U	1455	10:1	µg/l	0.50	2.2
Zinc (Dissolved)	U	1455	10:1	µg/l	2.5	< 2.5
Dissolved Organic Carbon	U	1610	10:1	mg/l	2.0	2.6
Total Phenols	U	1920	10:1	mg/l	0.030	< 0.030

Results - Soil

Project: 24/3980 Thorney Lane

Client: Concept Engineering Consultants		Chemtest Job No.:				24-24198	24-24198	24-24198	24-24198
Quotation No.: Q24-34527		Chemtest Sample ID.:				1842949	1842952	1842953	1842954
		Sample Location:				BH24-05	BH24-02	BH24-04	BH24-02
		Sample Type:				SOIL	SOIL	SOIL	SOIL
		Top Depth (m):				2.20	0.30	1.10	1.20
		Date Sampled:				29-Jul-2024	26-Jul-2024	26-Jul-2024	26-Jul-2024
		Asbestos Lab:					DURHAM	DURHAM	
Determinand	HWOL Code	Accred.	SOP	Units	LOD				
ACM Type		U	2192		N/A		-	-	
Asbestos Identification		U	2192		N/A		No Asbestos Detected	No Asbestos Detected	
Moisture		N	2030	%	0.020	6.8	15	8.4	19
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones	Stones	Stones	Stones
Soil Texture		N	2040		N/A	Sand	Clay	Sand	Clay
pH at 20C		M	2010		4.0	9.3	10.4	11.2	8.1
Boron (Hot Water Soluble)		M	2120	mg/kg	0.40	< 0.40	1.8	0.87	1.1
Cyanide (Total)		M	2300	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Arsenic		M	2455	mg/kg	0.5	12	18	7.5	14
Beryllium		U	2455	mg/kg	0.5	1.0	0.7	< 0.5	0.7
Cadmium		M	2455	mg/kg	0.10	0.36	< 0.10	< 0.10	< 0.10
Chromium		M	2455	mg/kg	0.5	42	33	22	27
Antimony		N	2455	mg/kg	2.0	3.1	< 2.0	< 2.0	< 2.0
Copper		M	2455	mg/kg	0.50	88	140	36	20
Mercury		M	2455	mg/kg	0.05	0.13	0.69	0.06	< 0.05
Nickel		M	2455	mg/kg	0.50	60	42	15	45
Lead		M	2455	mg/kg	0.50	140	240	35	16
Selenium		M	2455	mg/kg	0.25	0.47	0.74	< 0.25	2.6
Vanadium		U	2455	mg/kg	0.5	29	46	28	48
Zinc		M	2455	mg/kg	0.50	160	140	110	90
Chromium (Hexavalent)		N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	< 2.0	< 2.0	< 2.0	< 2.0
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	1.2	5.6	20	< 1.0
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	13	28	98	< 2.0
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	13	34	88	< 3.0
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	< 10	13	< 10	< 10
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	28	68	210	< 5.0
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	28	80	210	< 10
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05

Results - Soil

Project: 24/3980 Thorney Lane

Client: Concept Engineering Consultants		Chemtest Job No.:				24-24198	24-24198	24-24198	24-24198
Quotation No.: Q24-34527		Chemtest Sample ID.:				1842949	1842952	1842953	1842954
		Sample Location:				BH24-05	BH24-02	BH24-04	BH24-02
		Sample Type:				SOIL	SOIL	SOIL	SOIL
		Top Depth (m):				2.20	0.30	1.10	1.20
		Date Sampled:				29-Jul-2024	26-Jul-2024	26-Jul-2024	26-Jul-2024
		Asbestos Lab:					DURHAM	DURHAM	
Determinand	HWOL Code	Accred.	SOP	Units	LOD				
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	1.4	6.1	< 1.0
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	9.9	39	42	4.9
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	< 2.0	43	24	< 2.0
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	3.5	14	73	3.0
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	11	84	72	5.3
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	14	98	150	< 10
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	39	150	280	< 10
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	42	180	350	< 10
Total Organic Carbon		M	2625	%	0.20	0.31	2.3	1.5	0.35
Dichlorodifluoromethane		U	2760	µg/kg	1.0			< 1.0	
Chloromethane		M	2760	µg/kg	1.0			< 1.0	
Vinyl Chloride		M	2760	µg/kg	1.0			< 1.0	
Bromomethane		M	2760	µg/kg	20			< 20	
Chloroethane		U	2760	µg/kg	2.0			< 2.0	
Trichlorofluoromethane		M	2760	µg/kg	1.0			< 1.0	
1,1-Dichloroethene		M	2760	µg/kg	1.0			< 1.0	
Dichloromethane		N	2760	µg/kg	50			< 50	
Trans 1,2-Dichloroethene		M	2760	µg/kg	1.0			< 1.0	
1,1-Dichloroethane		M	2760	µg/kg	1.0			< 1.0	
cis 1,2-Dichloroethene		M	2760	µg/kg	1.0			< 1.0	
Bromochloromethane		U	2760	µg/kg	5.0			< 5.0	
Trichloromethane		M	2760	µg/kg	1.0			< 1.0	
1,1,1-Trichloroethane		M	2760	µg/kg	1.0			< 1.0	
Tetrachloromethane		M	2760	µg/kg	1.0			< 1.0	
1,1-Dichloropropene		U	2760	µg/kg	1.0			< 1.0	
Benzene		M	2760	mg/kg	0.0010	< 0.0010	< 0.0010		
Benzene		M	2760	µg/kg	1.0			< 1.0	
1,2-Dichloroethane		M	2760	µg/kg	2.0			< 2.0	
Trichloroethene		N	2760	µg/kg	1.0			< 1.0	
1,2-Dichloropropane		M	2760	µg/kg	1.0			< 1.0	
Dibromomethane		M	2760	µg/kg	1.0			< 1.0	
Bromodichloromethane		M	2760	µg/kg	5.0			< 5.0	
cis-1,3-Dichloropropene		N	2760	µg/kg	10			< 10	
Toluene		M	2760	mg/kg	0.0010	< 0.0010	< 0.0010		

Results - Soil

Project: 24/3980 Thorney Lane

Client: Concept Engineering Consultants		Chemtest Job No.:		24-24198	24-24198	24-24198	24-24198
Quotation No.: Q24-34527		Chemtest Sample ID.:		1842949	1842952	1842953	1842954
		Sample Location:		BH24-05	BH24-02	BH24-04	BH24-02
		Sample Type:		SOIL	SOIL	SOIL	SOIL
		Top Depth (m):		2.20	0.30	1.10	1.20
		Date Sampled:		29-Jul-2024	26-Jul-2024	26-Jul-2024	26-Jul-2024
		Asbestos Lab:			DURHAM	DURHAM	
Determinand	HWOL Code	Accred.	SOP	Units	LOD		
Toluene		M	2760	µg/kg	1.0		< 1.0
Trans-1,3-Dichloropropene		N	2760	µg/kg	10		< 10
1,1,2-Trichloroethane		M	2760	µg/kg	10		< 10
Tetrachloroethene		M	2760	µg/kg	1.0		< 1.0
1,3-Dichloropropane		U	2760	µg/kg	2.0		< 2.0
Dibromochloromethane		U	2760	µg/kg	10		< 10
1,2-Dibromoethane		M	2760	µg/kg	5.0		< 5.0
Chlorobenzene		M	2760	µg/kg	1.0		< 1.0
1,1,1,2-Tetrachloroethane		M	2760	µg/kg	2.0		< 2.0
Ethylbenzene		M	2760	mg/kg	0.0010	< 0.0010	< 0.0010
Ethylbenzene		M	2760	µg/kg	1.0		< 1.0
m & p-Xylene		M	2760	mg/kg	0.0010	< 0.0010	< 0.0010
m & p-Xylene		M	2760	µg/kg	1.0		< 1.0
o-Xylene		M	2760	mg/kg	0.0010	< 0.0010	< 0.0010
o-Xylene		M	2760	µg/kg	1.0		< 1.0
Styrene		M	2760	µg/kg	1.0		< 1.0
Tribromomethane		U	2760	µg/kg	1.0		< 1.0
Isopropylbenzene		M	2760	µg/kg	1.0		< 1.0
Bromobenzene		M	2760	µg/kg	1.0		< 1.0
1,2,3-Trichloropropane		N	2760	µg/kg	50		< 50
N-Propylbenzene		U	2760	µg/kg	1.0		< 1.0
2-Chlorotoluene		M	2760	µg/kg	1.0		< 1.0
1,3,5-Trimethylbenzene		M	2760	µg/kg	1.0		< 1.0
4-Chlorotoluene		U	2760	µg/kg	1.0		< 1.0
Tert-Butylbenzene		U	2760	µg/kg	1.0		< 1.0
1,2,4-Trimethylbenzene		M	2760	µg/kg	1.0		< 1.0
Sec-Butylbenzene		U	2760	µg/kg	1.0		< 1.0
1,3-Dichlorobenzene		M	2760	µg/kg	1.0		< 1.0
4-Isopropyltoluene		U	2760	µg/kg	1.0		< 1.0
1,4-Dichlorobenzene		M	2760	µg/kg	1.0		< 1.0
N-Butylbenzene		U	2760	µg/kg	1.0		< 1.0
1,2-Dichlorobenzene		M	2760	µg/kg	1.0		< 1.0
1,2-Dibromo-3-Chloropropane		U	2760	µg/kg	50		< 50
1,2,4-Trichlorobenzene		M	2760	µg/kg	1.0		< 1.0
Hexachlorobutadiene		N	2760	µg/kg	1.0		< 1.0
1,2,3-Trichlorobenzene		U	2760	µg/kg	2.0		< 2.0
Methyl Tert-Butyl Ether		M	2760	mg/kg	0.0010	< 0.0010	< 0.0010
Methyl Tert-Butyl Ether		M	2760	µg/kg	1.0		< 1.0

Results - Soil

Project: 24/3980 Thorney Lane

Client: Concept Engineering Consultants		Chemtest Job No.:				24-24198	24-24198	24-24198	24-24198
Quotation No.: Q24-34527		Chemtest Sample ID.:				1842949	1842952	1842953	1842954
		Sample Location:				BH24-05	BH24-02	BH24-04	BH24-02
		Sample Type:				SOIL	SOIL	SOIL	SOIL
		Top Depth (m):				2.20	0.30	1.10	1.20
		Date Sampled:				29-Jul-2024	26-Jul-2024	26-Jul-2024	26-Jul-2024
		Asbestos Lab:					DURHAM	DURHAM	
Determinand	HWOL Code	Accred.	SOP	Units	LOD				
N-Nitrosodimethylamine		M	2790	mg/kg	0.50			< 0.50	
Phenol		M	2790	mg/kg	0.50			< 0.50	
2-Chlorophenol		N	2790	mg/kg	0.50			< 0.50	
Bis-(2-Chloroethyl)Ether		M	2790	mg/kg	0.50			< 0.50	
1,3-Dichlorobenzene		M	2790	mg/kg	0.50			< 0.50	
1,4-Dichlorobenzene		N	2790	mg/kg	0.50			< 0.50	
1,2-Dichlorobenzene		M	2790	mg/kg	0.50			< 0.50	
2-Methylphenol		M	2790	mg/kg	0.50			< 0.50	
Bis(2-Chloroisopropyl)Ether		M	2790	mg/kg	0.50			< 0.50	
Hexachloroethane		N	2790	mg/kg	0.50			< 0.50	
N-Nitrosodi-n-propylamine		M	2790	mg/kg	0.50			< 0.50	
4-Methylphenol		M	2790	mg/kg	0.50			< 0.50	
Nitrobenzene		N	2790	mg/kg	0.50			< 0.50	
Isophorone		M	2790	mg/kg	0.50			< 0.50	
2-Nitrophenol		N	2790	mg/kg	0.50			< 0.50	
2,4-Dimethylphenol		N	2790	mg/kg	0.50			< 0.50	
Bis(2-Chloroethoxy)Methane		M	2790	mg/kg	0.50			< 0.50	
2,4-Dichlorophenol		N	2790	mg/kg	0.50			< 0.50	
1,2,4-Trichlorobenzene		M	2790	mg/kg	0.50			< 0.50	
Naphthalene		M	2790	mg/kg	0.50			2.6	
4-Chloroaniline		N	2790	mg/kg	0.50			< 0.50	
Hexachlorobutadiene		M	2790	mg/kg	0.50			< 0.50	
4-Chloro-3-Methylphenol		N	2790	mg/kg	0.50			< 0.50	
2-Methylnaphthalene		M	2790	mg/kg	0.50			3.2	
4-Nitrophenol		N	2790	mg/kg	0.50			< 0.50	
2,4,6-Trichlorophenol		N	2790	mg/kg	0.50			< 0.50	
2,4,5-Trichlorophenol		N	2790	mg/kg	0.50			< 0.50	
2-Chloronaphthalene		M	2790	mg/kg	0.50			< 0.50	
2-Nitroaniline		N	2790	mg/kg	0.50			< 0.50	
Acenaphthylene		M	2790	mg/kg	0.50			7.9	
Dimethylphthalate		M	2790	mg/kg	0.50			< 0.50	
2,6-Dinitrotoluene		N	2790	mg/kg	0.50			< 0.50	
Acenaphthene		M	2790	mg/kg	0.50			< 0.50	
3-Nitroaniline		N	2790	mg/kg	0.50			< 0.50	
Dibenzofuran		M	2790	mg/kg	0.50			7.3	
4-Chlorophenylphenylether		M	2790	mg/kg	0.50			< 0.50	
2,4-Dinitrotoluene		N	2790	mg/kg	0.50			< 0.50	
Fluorene		M	2790	mg/kg	0.50			7.3	

Results - Soil

Project: 24/3980 Thorney Lane

Client: Concept Engineering Consultants		Chemtest Job No.:				24-24198	24-24198	24-24198	24-24198
Quotation No.: Q24-34527		Chemtest Sample ID.:				1842949	1842952	1842953	1842954
		Sample Location:				BH24-05	BH24-02	BH24-04	BH24-02
		Sample Type:				SOIL	SOIL	SOIL	SOIL
		Top Depth (m):				2.20	0.30	1.10	1.20
		Date Sampled:				29-Jul-2024	26-Jul-2024	26-Jul-2024	26-Jul-2024
		Asbestos Lab:					DURHAM	DURHAM	
Determinand	HWOL Code	Accred.	SOP	Units	LOD				
Diethyl Phthalate		M	2790	mg/kg	0.50			< 0.50	
4-Nitroaniline		N	2790	mg/kg	0.50			< 0.50	
Azobenzene		M	2790	mg/kg	0.50			< 0.50	
4-Bromophenylphenyl Ether		M	2790	mg/kg	0.50			< 0.50	
Hexachlorobenzene		M	2790	mg/kg	0.50			< 0.50	
Phenanthrene		M	2790	mg/kg	0.50			62	
Anthracene		M	2790	mg/kg	0.50			15	
Carbazole		M	2790	mg/kg	0.50			3.3	
Di-N-Butyl Phthalate		N	2790	mg/kg	0.50			< 0.50	
Fluoranthene		M	2790	mg/kg	0.50			48	
Pyrene		M	2790	mg/kg	0.50			40	
Butylbenzyl Phthalate		N	2790	mg/kg	0.50			< 0.50	
Benzo[a]anthracene		M	2790	mg/kg	0.50			16	
Chrysene		M	2790	mg/kg	0.50			16	
Bis(2-Ethylhexyl)Phthalate		N	2790	mg/kg	0.50			< 0.50	
Di-N-Octyl Phthalate		N	2790	mg/kg	0.50			< 0.50	
Benzo[b]fluoranthene		M	2790	mg/kg	0.50			15	
Benzo[k]fluoranthene		M	2790	mg/kg	0.50			6.0	
Benzo[a]pyrene		M	2790	mg/kg	0.50			12	
Indeno(1,2,3-c,d)Pyrene		N	2790	mg/kg	0.50			6.2	
Dibenz(a,h)Anthracene		N	2790	mg/kg	0.50			2.6	
Benzo[g,h,i]perylene		M	2790	mg/kg	0.50			7.3	
Naphthalene		M	2800	mg/kg	0.10	< 0.10	0.15		
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	< 0.10		
Acenaphthene		M	2800	mg/kg	0.10	< 0.10	0.19		
Fluorene		M	2800	mg/kg	0.10	< 0.10	0.19		
Phenanthrene		M	2800	mg/kg	0.10	< 0.10	1.8		
Anthracene		M	2800	mg/kg	0.10	< 0.10	0.47		
Fluoranthene		M	2800	mg/kg	0.10	< 0.10	3.0		
Pyrene		M	2800	mg/kg	0.10	< 0.10	2.4		
Benzo[a]anthracene		M	2800	mg/kg	0.10	< 0.10	1.3		
Chrysene		M	2800	mg/kg	0.10	< 0.10	1.3		
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	< 0.10	1.8		
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	< 0.10	0.58		
Benzo[a]pyrene		M	2800	mg/kg	0.10	< 0.10	1.5		
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	< 0.10	1.1		
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	< 0.10		
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	< 0.10	1.3		

Results - Soil

Project: 24/3980 Thorney Lane

Client: Concept Engineering Consultants		Chemtest Job No.:							
		24-24198	24-24198	24-24198	24-24198	24-24198	24-24198		
Quotation No.: Q24-34527		Chemtest Sample ID.:							
		1842949	1842952	1842953	1842954	1842954	1842954		
		Sample Location:							
		BH24-05	BH24-02	BH24-04	BH24-02	BH24-02	BH24-02		
		Sample Type:							
		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL		
		Top Depth (m):							
		2.20	0.30	1.10	1.20	1.20	1.20		
		Date Sampled:							
		29-Jul-2024	26-Jul-2024	26-Jul-2024	26-Jul-2024	26-Jul-2024	26-Jul-2024		
		Asbestos Lab:							
			DURHAM	DURHAM					
Determinand	HWOL Code	Accred.	SOP	Units	LOD				
Total Of 16 PAH's		N	2800	mg/kg	2.0	< 2.0	17		
PCB 81		N	2815	mg/kg	0.010			< 0.010	
PCB 77		U	2815	mg/kg	0.010			< 0.010	
PCB 105		N	2815	mg/kg	0.010			< 0.010	
PCB 114		N	2815	mg/kg	0.010			< 0.010	
PCB 118		N	2815	mg/kg	0.010			< 0.010	
PCB 123		N	2815	mg/kg	0.010			< 0.010	
PCB 126		N	2815	mg/kg	0.010			< 0.010	
PCB 156		N	2815	mg/kg	0.010			< 0.010	
PCB 157		N	2815	mg/kg	0.010			< 0.010	
PCB 167		N	2815	mg/kg	0.010			< 0.010	
PCB 169		N	2815	mg/kg	0.010			< 0.010	
PCB 189		N	2815	mg/kg	0.010			< 0.010	
Total PCBs (12 Congeners)		N	2815	mg/kg	0.12			< 0.12	
Total Phenols		M	2920	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
PFAS Suite Soils		SN		µg/kg	0.0		See Attached		See Attached

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
1020	Electrical Conductivity and Total Dissolved Solids (TDS) in Waters	Electrical Conductivity at 25°C and Total Dissolved Solids (TDS) in Waters	Conductivity Meter	
1220	Anions, Alkalinity & Ammonium in Waters	Fluoride; Chloride; Nitrite; Nitrate; Total; Oxidisable Nitrogen (TON); Sulfate; Phosphate; Alkalinity; Ammonium	Automated colorimetric analysis using 'Aquakem 600' Discrete Analyser.	
1455	Metals in Waters by ICP-MS	Metals, including: Antimony; Arsenic; Barium; Beryllium; Boron; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Tin; Vanadium; Zinc	Filtration of samples followed by direct determination by inductively coupled plasma mass spectrometry (ICP-MS).	
1610	Total/Dissolved Organic Carbon in Waters	Organic Carbon	TOC Analyser using Catalytic Oxidation	
1920	Phenols in Waters by HPLC	Phenolic compounds including: Phenol, Cresols, Xylenols, Trimethylphenols Note: Chlorophenols are excluded.	Determination by High Performance Liquid Chromatography (HPLC) using electrochemical detection.	
2010	pH Value of Soils	pH at 20°C	pH Meter	
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <30°C.	
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930	
2120	Water Soluble Boron, Sulphate, Magnesium & Chromium	Boron; Sulphate; Magnesium; Chromium	Aqueous extraction / ICP-OES	
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry	
2300	Cyanides & Thiocyanate in Soils	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Alkaline extraction followed by colorimetric determination using Automated Flow Injection Analyser.	
2455	Acid Soluble Metals in Soils	Metals, including: Arsenic; Barium; Beryllium; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Vanadium; Zinc	Acid digestion followed by determination of metals in extract by ICP-MS.	
2490	Hexavalent Chromium in Soils	Chromium [VI]	Soil extracts are prepared by extracting dried and ground soil samples into boiling water. Chromium [VI] is determined by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazine.	
2625	Total Organic Carbon in Soils	Total organic Carbon (TOC)	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.	
2690	EPH A/A Split	Aliphatics: >C10-C12, >C12-C16, >C16-C21, >C21- C35, >C35- C40 Aromatics: >C10-C12, >C12-C16, >C16-C21, >C21- C35, >C35- C40	Acetone/Heptane extraction / GCxGC FID detection	
2760	Volatile Organic Compounds (VOCs) in Soils by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics.(cf. USEPA Method 8260)*please refer to UKAS schedule	Automated headspace gas chromatographic (GC) analysis of a soil sample, as received, with mass spectrometric (MS) detection of volatile organic compounds.	
2780	VPH A/A Split	Aliphatics: >C5-C6, >C6-C7,>C7-C8,>C8-C10 Aromatics: >C5-C7,>C7-C8,>C8-C10	Water extraction / Headspace GCxGC FID detection	
2790	Semi-Volatile Organic Compounds (SVOCs) in Soils by GC-MS	Semi-volatile organic compounds(cf. USEPA Method 8270)	Acetone/Hexane extraction / GC-MS	
2800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-MS	Acenaphthene*; Acenaphthylene; Anthracene*; Benzo[a]Anthracene*; Benzo[a]Pyrene*; Benzo[b]Fluoranthene*; Benzo[ghi]Perylene*; Benzo[k]Fluoranthene; Chrysene*; Dibenz[ah]Anthracene; Fluoranthene*; Fluorene*; Indeno[123cd]Pyrene*; Naphthalene*; Phenanthrene*; Pyrene*	Dichloromethane extraction / GC-MS	

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
2810	Polychlorinated Biphenyls (PCB) as Aroclors in Soils by GC-ECD	Polychlorinated Biphenyls expressed as an Aroclor (normally reported as *Aroclor 1242)	Extraction of a soil sample, as received, into hexane/acetone (50:50) followed by gas chromatography (GC) using mass spectrometric (MS) detection for identification of polychlorinated biphenyls and electron capture detection (ECD) for quantitation if present.	
2815	Polychlorinated Biphenyls (PCB) ICES7Congeners in Soils by GC-MS	ICES7 PCB congeners	Acetone/Hexane extraction / GC-MS. Reported PCB 101 results may contain contributions from PCB 90 due to inseparable chromatography.	
2920	Phenols in Soils by HPLC	Phenolic compounds including Resorcinol, Phenol, Methylphenols, Dimethylphenols, 1-Naphthol and Trimethylphenols Note: chlorophenols are excluded.	60:40 methanol/water mixture extraction, followed by HPLC determination using electrochemical detection.	
640	Characterisation of Waste (Leaching C10)	Waste material including soil, sludges and granular waste	Compliance Test for Leaching of Granular Waste Material and Sludge	

Report Information

Key

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

This report shall not be reproduced except in full, and only with the prior approval of the laboratory.

Any comments or interpretations are outside the scope of UKAS accreditation.

The Laboratory is not accredited for any sampling activities and reported results relate to the samples 'as received' at the laboratory.

Uncertainty of measurement for the determinands tested are available upon request .

None of the results in this report have been recovery corrected.

All results are expressed on a dry weight basis.

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

For all other tests the samples were dried at $\leq 30^{\circ}\text{C}$ prior to analysis.

All Asbestos testing is performed at the indicated laboratory .

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

Sample Deviation Codes

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

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt.

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

Charges may apply to extended sample storage.

Water Sample Category Key for Accreditation

- DW - Drinking Water
- GW - Ground Water
- LE - Land Leachate
- NA - Not Applicable

Report Information

PL - Prepared Leachate
PW - Processed Water
RE - Recreational Water
SA - Saline Water
SW - Surface Water
TE - Treated Effluent
TS - Treated Sewage
UL - Unspecified Liquid

Clean Up Codes

NC - No Clean Up
MC - Mathematical Clean Up
FC - Florisil Clean Up

HWOL Acronym System

HS - Headspace analysis
EH - Extractable hydrocarbons – i.e. everything extracted by the solvent
CU - Clean-up – e.g. by Florisil, silica gel
1D - GC – Single coil gas chromatography
Total - Aliphatics & Aromatics
AL - Aliphatics only
AR - Aromatic only
2D - GC-GC – Double coil gas chromatography
#1 - EH_2D_Total but with humics mathematically subtracted
#2 - EH_2D_Total but with fatty acids mathematically subtracted
+ - Operator to indicate cumulative e.g. EH+EH_Total or EH_CU+HS_Total

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

CERTIFICATE

Project code : 1781188
Your Project Description : 24-24198
Client : Eurofins Chemtest Ltd

Your Sample identification
8367837 = 1842952 BH24-02
8367838 = 1842954 BH24-02-1.20

Client sampling date	:	29/07/2024	29/07/2024
Date of receipt	:	02/08/2024	02/08/2024
Startdate	:	02/08/2024	02/08/2024
Reference number	:	8367837	8367838
Your Matrix	:	Soil	Soil

Sample preparation			
S AS3000 (steekmonster)		done	done
S sample preparation		done	done

General analysis - physics			
S dry weight	%	86,0	76,7

- The frontpage and, where applicable, appendices of this document are integral parts of this certificate.
 - Analyses marked with a 'Q' are part of the RvA accreditation certificate L086.
 - Analyses marked with a 'S' are part of the AS 3000 accreditation certificate.
 Verificationcode: MEYY-XUOF-ZLQA-FCPM

CERTIFICATE

Project code : 1781188
Your Project Description : 24-24198
Client : Eurofins Chemtest Ltd

Your Sample identification
8367837 = 1842952 BH24-02
8367838 = 1842954 BH24-02-1.20

Client sampling date	:	29/07/2024	29/07/2024
Date of receipt	:	02/08/2024	02/08/2024
Startdate	:	02/08/2024	02/08/2024
Reference number	:	8367837	8367838
Your Matrix	:	Soil	Soil

Organic compounds - per- and polyfluoroalkylsubstances (PFAS) HPLC-MS/MS
Perfluorinated carboxylic acids:

Q PFBA	µg/kg dw	< 0,1	< 0,1
Q PFPeA	µg/kg dw	< 0,1	< 0,1
Q PFHxA	µg/kg dw	< 0,1	< 0,1
Q PFHpA	µg/kg dw	< 0,1	< 0,1
Q PFOA linear	µg/kg dw	< 0,1	< 0,1
Q PFOA branched	µg/kg dw	< 0,1	< 0,1
Q PFNA	µg/kg dw	< 0,1	< 0,1
Q PFDA	µg/kg dw	< 0,1	< 0,1
Q PFUnDA	µg/kg dw	< 0,1	< 0,1
Q PFDoDA	µg/kg dw	< 0,1	< 0,1
Q PFTTrDA	µg/kg dw	< 0,1	< 0,1
Q PFTeDA	µg/kg dw	< 0,1	< 0,1
Q PFHxDA	µg/kg dw	< 0,1	< 0,1
Q PFODA	µg/kg dw	< 0,1	< 0,1

Perfluorinated sulfonic acids:

Q PFBS	µg/kg dw	< 0,1	< 0,1
Q PFPeS	µg/kg dw	< 0,1	< 0,1
Q PFHxS	µg/kg dw	< 0,1	< 0,1
Q PFHpS	µg/kg dw	< 0,1	< 0,1
Q PFOS linear	µg/kg dw	< 0,1	< 0,1
Q PFOS branched	µg/kg dw	< 0,1	< 0,1
Q PFDS	µg/kg dw	< 0,1	< 0,1

Perfluorinated alkyl substances - precursors:

Q 4:2 FTS	µg/kg dw	< 0,1	< 0,1
Q 6:2 FTS	µg/kg dw	< 0,1	< 0,1
Q 8:2 FTS	µg/kg dw	< 0,1	< 0,1
Q 10:2 FTS	µg/kg dw	< 0,1	< 0,1
Q PFOSA	µg/kg dw	< 0,1	< 0,1

Perfluorinated alkyl substances - remainder:

HPFHpA	µg/kg dw	< 0,4	0,4
4H-PFUnDA	µg/kg dw	< 0,4	< 0,4
8:2 FTUCA	µg/kg dw	< 0,4	< 0,4
Q 9Cl-PF3ONS (F53-B)	µg/kg dw	< 0,1	< 0,1
Q ADONA	µg/kg dw	< 0,1	< 0,1
Q EtFOSA	µg/kg dw	< 0,1	< 0,1
Q EtFOSAA	µg/kg dw	< 0,1	< 0,1
MeFBSA	µg/kg dw	< 0,4	< 0,4
Q MeFOSAA	µg/kg dw	< 0,1	< 0,1
Q P37DMOA	µg/kg dw	< 1	< 1
Q PFBSA	µg/kg dw	< 0,1	< 0,1
Q MeFOSA	µg/kg dw	< 0,1	< 0,1
Q MeFBSAA	µg/kg dw	< 0,1	< 0,1
Q 8:2 DiPAP	µg/kg dw	< 0,1	< 0,1
sum PFOA	µg/kg dw	0,1	0,1
sum PFOS	µg/kg dw	0,1	0,1

- The frontpage and, where applicable, appendices of this document are integral parts of this certificate.

- Analyses marked with a 'Q' are part of the RvA accreditation certificate L086.

- Analyses marked with a 'S' are part of the AS 3000 accreditation certificate.

Verificationcode: MEYY-XUOF-ZLQA-FCPM

Ref.: 1781188_certificaat_v2

C E R T I F I C A T E

Project code : 1781188
Your Project Description : 24-24198
Client : Eurofins Chemtest Ltd

Notes related to analyses

General comments

The following information has been provided by the client if applicable:
Project description, Sample identificaton, Client sampling date, Client Matrix, Sample depth, Pot number (Barcode), Field data, Field observations and sampling data. The client sampling date can affect the validity of the results.

Quantification of branched PFOS/POA is based on DIN 38414-14.

Summation of concentrations for group parameters

Summation is calculated according to AS3000 protocol, paragraph 2.5.2 and appendix 3.

CERTIFICATE

Project code : 1781188
Your Project Description : 24-24198
Client : Eurofins Chemtest Ltd

Appendix Index PFAS

PFAS component	Full name PFAS component
10:2 FTS	10:2 FTS (10:2 Fluorotelomer sulfonic acid)
4:2 FTS	4:2 FTS (4:2 Fluorotelomer sulfonic acid)
4H-PFUnDA	4H-PFUnDA (2H,2H,3H,3H-Perfluoroundecanoic acid)
6:2 FTS	6:2 FTS (6:2 Fluorotelomer sulfonic acid)
8:2 DiPAP	8:2 DiPAP (8:2 Fluorotelomer phosphate diester)
8:2 FTS	8:2 FTS (8:2 Fluorotelomer sulfonic acid)
8:2 FTUCA	8:2 FTUCA (8:2 Fluorotelomer unsaturated carboxylic acid)
9Cl-PF3ONS (F53-B)	9Cl-PF3ONS (F53-B) (9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid)
ADONA	ADONA (ammonium 4,8-dioxa-3H-perfluorononanoate)
EtFOSA	EtFOSA (N-ethyl perfluorooctanesulfonamide)
EtFOSAA	EtFOSAA (perfluorooctanesulfonylamide(N-ethyl)acetate)
HPFHpA	HPFHpA (7H-perfluoroheptanoic acid)
MeFBSA	MeFBSA (N-methylperfluorobutanesulfonylamide)
MeFBSAA	MeFBSAA (perfluorobutanesulfonylamide(N-methyl)acetate)
MeFOSA	MeFOSA (N-methyl perfluorooctanesulfonamide)
MeFOSAA	MeFOSAA (N-methyl perfluorooctanesulfonamidoacetic acid)
P37DMOA	P37DMOA (perfluoro-3,7-dimethyloctanoic acid)
PFBA	PFBA (perfluorobutanoic acid)
PFBS	PFBS (perfluorobutanesulfonic acid)
PFBSA	PFBSA (perfluorobutanesulfonamide)
PFDA	PFDA (perfluorodecanoic acid)
PFDoDA	PFDoDA (perfluorododecanoic acid)
PFDS	PFDS (perfluorodecanesulfonic acid)
PFHpA	PFHpA (perfluoroheptanoic acid)
PFHpS	PFHpS (perfluoroheptanesulfonic acid)
PFHxA	PFHxA (perfluorohexanoic acid)
PFHxDA	PFHxDA (perfluorohexadecanoic acid)
PFHxS	PFHxS (perfluorohexanesulfonic acid)
PFNA	PFNA (perfluorononanoic acid)
PFOA branched	PFOA branched (perfluorooctanoic acid)
PFOA linear	PFOA lineair (perfluorooctanoic acid)
PFODA	PFODA (perfluorooctadecanoic acid)
PFOS branched	PFOS branched (perfluorooctanesulfonic acid)
PFOS linear	PFOS lineair (perfluorooctanesulfonic acid)
PFOSA	PFOSA (perfluorooctanesulfonamide)
PFPeA	PFPeA (perfluoropentanoic acid)
PFPeS	PFPeS (perfluoropentanesulfonic acid)
PFTeDA	PFTeDA (perfluorotetradecanoic acid)
PFTrDA	PFTrDA (perfluorotridecanoic acid)
PFUnDA	PFUnDA (perfluoroundecanoic acid)

C E R T I F I C A T E

Project code : 1781188
Your Project Description : 24-24198
Client : Eurofins Chemtest Ltd

Methodology Soil (AS3000)

AS3000

In dit analysecertificaat zijn de met 'S' gemerkte analyses uitgevoerd volgens de analysemethoden beschreven in het "Accreditatieschema Laboratoriumanalyses voor grond-, waterbodem- en grondwateronderzoek (AS SIKB 3000)". Het laboratoriumonderzoek is uitgevoerd volgens de onderstaande analysemethoden. Deze analyses zijn vastgelegd in het geldende accreditatie-certificaat met bijbehorende verrichtingenlijst L086 van Eurofins Omegam BV.

Samplenate : Conform AS3000 en NEN-EN 16179
 Dry weight : Conform AS3010 prestatieblad 2

In this certificate of analysis, the analysis marked with 'Q' have been carried out according to the analysis methods below. The analysis are registrated in the current accreditation certificate with associated annex to declaration of accreditation (scope of accreditation) L086 of Eurofins Omegam BV.

PFAS : In house method

Final Report

Report No.: 24-24394-1

Initial Date of Issue: 12-Aug-2024

Re-Issue Details:

Client Concept Engineering Consultants

Client Address:
 Unit D
 Herald Way Binley Industrial Estate
 Coventry
 CV3 2RQ

Contact(s):
 Kasia Mazerant
 Lab
 Gabriela Mandache

Project 24/3980 - Thorney Lane

Quotation No.: Q24-34527 **Date Received:** 31-Jul-2024

Order No.: 103134 (CL6117) **Date Instructed:** 01-Aug-2024

No. of Samples: 7

Turnaround (Wkdays): 5 **Results Due:** 07-Aug-2024

Date Approved: 12-Aug-2024

Approved By:



Details: David Smith, Technical Director

For details about application of accreditation to specific matrix types, please refer to the Table at the back of this report

Results - Leachate

Project: 24/3980 - Thorney Lane

Client: Concept Engineering Consultants	Chemtest Job No.: 24-24394					
Quotation No.: Q24-34527	Chemtest Sample ID.: 1843899					
	Client Sample ID.: 29					
	Sample Location: DS24-01					
	Sample Type: SOIL					
	Top Depth (m): 0.9					
	Date Sampled: 30-Jul-2024					
Determinand	Accred.	SOP	Type	Units	LOD	
Total Dissolved Solids	N	1020	10:1	mg/l	1.0	52
Chloride	U	1220	10:1	mg/l	1.0	1.4
Fluoride	U	1220	10:1	mg/l	0.050	0.38
Sulphate	U	1220	10:1	mg/l	1.0	9.9
Arsenic (Dissolved)	U	1455	10:1	µg/l	0.20	8.0
Barium (Dissolved)	U	1455	10:1	µg/l	5.00	11
Cadmium (Dissolved)	U	1455	10:1	µg/l	0.11	< 0.11
Chromium (Dissolved)	U	1455	10:1	µg/l	0.50	0.57
Copper (Dissolved)	U	1455	10:1	µg/l	0.50	12
Mercury (Dissolved)	U	1455	10:1	µg/l	0.05	< 0.05
Molybdenum (Dissolved)	U	1455	10:1	µg/l	0.20	13
Nickel (Dissolved)	U	1455	10:1	µg/l	0.50	2.9
Lead (Dissolved)	U	1455	10:1	µg/l	0.50	4.4
Antimony (Dissolved)	U	1455	10:1	µg/l	0.50	2.3
Selenium (Dissolved)	U	1455	10:1	µg/l	0.50	1.4
Zinc (Dissolved)	U	1455	10:1	µg/l	2.5	4.2
Dissolved Organic Carbon	U	1610	10:1	mg/l	2.0	8.1
Total Phenols	U	1920	10:1	mg/l	0.030	< 0.030

Results - Soil

Project: 24/3980 - Thorney Lane

Client: Concept Engineering Consultants		Chemtest Job No.:		24-24394	24-24394	24-24394	24-24394	24-24394	24-24394	24-24394		
Quotation No.: Q24-34527		Chemtest Sample ID.:		1843892	1843893	1843895	1843896	1843898	1843899	1843900		
		Client Sample ID.:		21	22	24	25	28	29			
		Sample Location:		BH24-04A	BH24-04A	DS24-03	DS24-03	DS24-01	DS24-01	DS24-03		
		Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL		
		Top Depth (m):		0.3	1.2	0.8	1.3	0.3	0.9	3.70		
		Date Sampled:		29-Jul-2024	29-Jul-2024	30-Jul-2024	30-Jul-2024	30-Jul-2024	30-Jul-2024	30-Jul-2024		
		Asbestos Lab:		NEW-ASB	NEW-ASB	NEW-ASB		NEW-ASB	NEW-ASB			
Determinand	HWOL Code	Accred.	SOP	Units	LOD							
ACM Type		U	2192		N/A	-	-	-	-	-		
Asbestos Identification		U	2192		N/A	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected		
Moisture		N	2030	%	0.020	14	13	13	16	11	8.9	15
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones	Stones	Stones	None	Stones	Stones	Stones
Soil Texture		N	2040		N/A	Sand	Sand	Sand	Sand	Sand	Sand	Clay
pH at 20C		U	2010		4.0	8.9	8.8	8.9	8.2	8.4	9.5	8.3
Boron (Hot Water Soluble)		U	2120	mg/kg	0.40	1.3	1.6	1.0	0.76	3.0	0.99	1.7
Cyanide (Complex)		U	2300	mg/kg	0.50						< 0.50	
Cyanide (Free)		U	2300	mg/kg	0.50						< 0.50	
Cyanide (Total)		U	2300	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.70
Thiocyanate		U	2300	mg/kg	5.0						< 5.0	
Arsenic		U	2455	mg/kg	0.5	10	48	9.4	5.0	7.0	16	30
Beryllium		U	2455	mg/kg	0.5	< 0.5	1.9	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Cadmium		U	2455	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chromium		U	2455	mg/kg	0.5	17	37	25	72	11	27	19
Antimony		N	2455	mg/kg	2.0	< 2.0	10	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Copper		U	2455	mg/kg	0.50	45	210	79	11	32	35	63
Mercury		U	2455	mg/kg	0.05	0.22	0.37	0.11	0.05	0.16	0.39	0.06
Nickel		U	2455	mg/kg	0.50	19	46	26	16	9.8	25	18
Lead		U	2455	mg/kg	0.50	360	590	53	18	91	93	110
Selenium		U	2455	mg/kg	0.25	< 0.25	0.77	0.26	< 0.25	< 0.25	0.43	0.38
Vanadium		U	2455	mg/kg	0.5	24	52	36	21	20	37	30
Zinc		U	2455	mg/kg	0.50	52	120	68	33	53	73	140
Chromium (Hexavalent)		N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	0.11	< 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	U	2690	mg/kg	2.00	3.2	2.9	3.7	3.3	4.4	38	3.5
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	U	2690	mg/kg	1.00	1.9	1.8	7.1	1.7	8.7	220	1.5
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	U	2690	mg/kg	2.00	< 2.0	< 2.0	16	< 2.0	21	240	< 2.0
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	U	2690	mg/kg	3.00	< 3.0	< 3.0	58	< 3.0	38	52	< 3.0
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	< 10	< 10	30	< 10	< 10	< 10	< 10

Results - Soil

Project: 24/3980 - Thorney Lane

Client: Concept Engineering Consultants		Chemtest Job No.:		24-24394	24-24394	24-24394	24-24394	24-24394	24-24394	24-24394	24-24394	
Quotation No.: Q24-34527		Chemtest Sample ID.:		1843892	1843893	1843895	1843896	1843898	1843899	1843900		
		Client Sample ID.:		21	22	24	25	28	29			
		Sample Location:		BH24-04A	BH24-04A	DS24-03	DS24-03	DS24-01	DS24-01	DS24-03		
		Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL		
		Top Depth (m):		0.3	1.2	0.8	1.3	0.3	0.9	3.70		
		Date Sampled:		29-Jul-2024	29-Jul-2024	30-Jul-2024	30-Jul-2024	30-Jul-2024	30-Jul-2024	30-Jul-2024		
		Asbestos Lab:		NEW-ASB	NEW-ASB	NEW-ASB		NEW-ASB	NEW-ASB			
Determinand	HWOL Code	Accred.	SOP	Units	LOD							
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	U	2690	mg/kg	5.00	5.9	5.5	85	5.0	73	550	5.3
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	< 10	< 10	110	< 10	73	550	< 10
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	10	< 1.0
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	85	< 1.0
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	4.9	4.6	13	3.2	9.0	94	4.1
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	4.2	< 2.0	16	< 2.0	8.9	< 2.0	< 2.0
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	< 1.0	< 1.0	58	< 1.0	2.0	< 1.0	< 1.0
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	9.1	6.4	30	< 5.0	18	190	< 5.0
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	< 10	< 10	87	< 10	20	190	< 10
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	15	12	110	< 10	91	740	< 10
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	15	12	200	< 10	93	740	< 10
Total Organic Carbon		U	2625	%	0.20	8.4	0.83	1.3	0.31	2.2	2.2	0.57
Dichlorodifluoromethane		U	2760	µg/kg	1.0						< 1.0	
Chloromethane		U	2760	µg/kg	1.0						< 1.0	
Vinyl Chloride		U	2760	µg/kg	1.0						< 1.0	
Bromomethane		U	2760	µg/kg	20						< 20	
Chloroethane		U	2760	µg/kg	2.0						< 2.0	
Trichlorofluoromethane		U	2760	µg/kg	1.0						< 1.0	
1,1-Dichloroethene		U	2760	µg/kg	1.0						< 1.0	
Dichloromethane		N	2760	µg/kg	50						< 50	
Trans 1,2-Dichloroethene		U	2760	µg/kg	1.0						< 1.0	
1,1-Dichloroethane		U	2760	µg/kg	1.0						< 1.0	
cis 1,2-Dichloroethene		U	2760	µg/kg	1.0						< 1.0	
Bromochloromethane		U	2760	µg/kg	5.0						< 5.0	
Trichloromethane		U	2760	µg/kg	1.0						< 1.0	
1,1,1-Trichloroethane		U	2760	µg/kg	1.0						< 1.0	
Tetrachloromethane		U	2760	µg/kg	1.0						< 1.0	
1,1-Dichloropropene		U	2760	µg/kg	1.0						< 1.0	
Benzene		U	2760	mg/kg	0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010		< 0.0010
Benzene		U	2760	µg/kg	1.0						< 1.0	
1,2-Dichloroethane		U	2760	µg/kg	2.0						< 2.0	
Trichloroethene		N	2760	µg/kg	1.0						< 1.0	

Results - Soil

Project: 24/3980 - Thorney Lane

Client: Concept Engineering Consultants		Chemtest Job No.:		24-24394	24-24394	24-24394	24-24394	24-24394	24-24394	24-24394
Quotation No.: Q24-34527		Chemtest Sample ID.:		1843892	1843893	1843895	1843896	1843898	1843899	1843900
		Client Sample ID.:		21	22	24	25	28	29	
		Sample Location:		BH24-04A	BH24-04A	DS24-03	DS24-03	DS24-01	DS24-01	DS24-03
		Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):		0.3	1.2	0.8	1.3	0.3	0.9	3.70
		Date Sampled:		29-Jul-2024	29-Jul-2024	30-Jul-2024	30-Jul-2024	30-Jul-2024	30-Jul-2024	30-Jul-2024
		Asbestos Lab:		NEW-ASB	NEW-ASB	NEW-ASB		NEW-ASB	NEW-ASB	
Determinand	HWOL Code	Accred.	SOP	Units	LOD					
1,2-Dichloropropane		U	2760	µg/kg	1.0					< 1.0
Dibromomethane		U	2760	µg/kg	1.0					< 1.0
Bromodichloromethane		U	2760	µg/kg	5.0					< 5.0
cis-1,3-Dichloropropene		N	2760	µg/kg	10					< 10
Toluene		U	2760	mg/kg	0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
Toluene		U	2760	µg/kg	1.0					< 1.0
Trans-1,3-Dichloropropene		N	2760	µg/kg	10					< 10
1,1,2-Trichloroethane		U	2760	µg/kg	10					< 10
Tetrachloroethene		U	2760	µg/kg	1.0					< 1.0
1,3-Dichloropropane		U	2760	µg/kg	2.0					< 2.0
Dibromochloromethane		U	2760	µg/kg	10					< 10
1,2-Dibromoethane		U	2760	µg/kg	5.0					< 5.0
Chlorobenzene		U	2760	µg/kg	1.0					< 1.0
1,1,1,2-Tetrachloroethane		U	2760	µg/kg	2.0					< 2.0
Ethylbenzene		U	2760	mg/kg	0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
Ethylbenzene		U	2760	µg/kg	1.0					< 1.0
m & p-Xylene		U	2760	mg/kg	0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
m & p-Xylene		U	2760	µg/kg	1.0					< 1.0
o-Xylene		U	2760	mg/kg	0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
o-Xylene		U	2760	µg/kg	1.0					< 1.0
Styrene		U	2760	µg/kg	1.0					< 1.0
Tribromomethane		U	2760	µg/kg	1.0					< 1.0
Isopropylbenzene		U	2760	µg/kg	1.0					< 1.0
Bromobenzene		U	2760	µg/kg	1.0					< 1.0
1,2,3-Trichloropropane		N	2760	µg/kg	50					< 50
N-Propylbenzene		U	2760	µg/kg	1.0					< 1.0
2-Chlorotoluene		U	2760	µg/kg	1.0					< 1.0
1,3,5-Trimethylbenzene		U	2760	µg/kg	1.0					< 1.0
4-Chlorotoluene		U	2760	µg/kg	1.0					< 1.0
Tert-Butylbenzene		U	2760	µg/kg	1.0					< 1.0
1,2,4-Trimethylbenzene		U	2760	µg/kg	1.0					< 1.0
Sec-Butylbenzene		U	2760	µg/kg	1.0					< 1.0
1,3-Dichlorobenzene		U	2760	µg/kg	1.0					< 1.0
4-Isopropyltoluene		U	2760	µg/kg	1.0					< 1.0
1,4-Dichlorobenzene		U	2760	µg/kg	1.0					< 1.0
N-Butylbenzene		U	2760	µg/kg	1.0					< 1.0
1,2-Dichlorobenzene		U	2760	µg/kg	1.0					< 1.0

Results - Soil

Project: 24/3980 - Thorney Lane

Client: Concept Engineering Consultants		Chemtest Job No.:		24-24394	24-24394	24-24394	24-24394	24-24394	24-24394	24-24394
Quotation No.: Q24-34527		Chemtest Sample ID.:		1843892	1843893	1843895	1843896	1843898	1843899	1843900
		Client Sample ID.:		21	22	24	25	28	29	
		Sample Location:		BH24-04A	BH24-04A	DS24-03	DS24-03	DS24-01	DS24-01	DS24-03
		Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):		0.3	1.2	0.8	1.3	0.3	0.9	3.70
		Date Sampled:		29-Jul-2024	29-Jul-2024	30-Jul-2024	30-Jul-2024	30-Jul-2024	30-Jul-2024	30-Jul-2024
		Asbestos Lab:		NEW-ASB	NEW-ASB	NEW-ASB		NEW-ASB	NEW-ASB	
Determinand	HWOL Code	Accred.	SOP	Units	LOD					
1,2-Dibromo-3-Chloropropane		U	2760	µg/kg	50					< 50
1,2,4-Trichlorobenzene		U	2760	µg/kg	1.0					< 1.0
Hexachlorobutadiene		N	2760	µg/kg	1.0					< 1.0
1,2,3-Trichlorobenzene		U	2760	µg/kg	2.0					< 2.0
Methyl Tert-Butyl Ether		U	2760	mg/kg	0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
Methyl Tert-Butyl Ether		U	2760	µg/kg	1.0					< 1.0
N-Nitrosodimethylamine		U	2790	mg/kg	0.50					< 0.50
Phenol		U	2790	mg/kg	0.50					< 0.50
2-Chlorophenol		N	2790	mg/kg	0.50					< 0.50
Bis-(2-Chloroethyl)Ether		U	2790	mg/kg	0.50					< 0.50
1,3-Dichlorobenzene		U	2790	mg/kg	0.50					< 0.50
1,4-Dichlorobenzene		N	2790	mg/kg	0.50					< 0.50
1,2-Dichlorobenzene		U	2790	mg/kg	0.50					< 0.50
2-Methylphenol		U	2790	mg/kg	0.50					< 0.50
Bis(2-Chloroisopropyl)Ether		U	2790	mg/kg	0.50					< 0.50
Hexachloroethane		N	2790	mg/kg	0.50					< 0.50
N-Nitrosodi-n-propylamine		U	2790	mg/kg	0.50					< 0.50
4-Methylphenol		U	2790	mg/kg	0.50					< 0.50
Nitrobenzene		N	2790	mg/kg	0.50					< 0.50
Isophorone		U	2790	mg/kg	0.50					< 0.50
2-Nitrophenol		N	2790	mg/kg	0.50					< 0.50
2,4-Dimethylphenol		N	2790	mg/kg	0.50					< 0.50
Bis(2-Chloroethoxy)Methane		U	2790	mg/kg	0.50					< 0.50
2,4-Dichlorophenol		N	2790	mg/kg	0.50					< 0.50
1,2,4-Trichlorobenzene		U	2790	mg/kg	0.50					< 0.50
Naphthalene		U	2790	mg/kg	0.50					< 0.50
4-Chloroaniline		N	2790	mg/kg	0.50					< 0.50
Hexachlorobutadiene		U	2790	mg/kg	0.50					< 0.50
4-Chloro-3-Methylphenol		N	2790	mg/kg	0.50					< 0.50
2-Methylnaphthalene		U	2790	mg/kg	0.50					< 0.50
4-Nitrophenol		N	2790	mg/kg	0.50					< 0.50
2,4,6-Trichlorophenol		N	2790	mg/kg	0.50					< 0.50
2,4,5-Trichlorophenol		N	2790	mg/kg	0.50					< 0.50
2-Chloronaphthalene		U	2790	mg/kg	0.50					< 0.50
2-Nitroaniline		N	2790	mg/kg	0.50					< 0.50
Acenaphthylene		U	2790	mg/kg	0.50					< 0.50
Dimethylphthalate		U	2790	mg/kg	0.50					< 0.50

Results - Soil

Project: 24/3980 - Thorney Lane

Client: Concept Engineering Consultants		Chemtest Job No.:		24-24394	24-24394	24-24394	24-24394	24-24394	24-24394	24-24394	
Quotation No.: Q24-34527		Chemtest Sample ID.:		1843892	1843893	1843895	1843896	1843898	1843899	1843900	
		Client Sample ID.:		21	22	24	25	28	29		
		Sample Location:		BH24-04A	BH24-04A	DS24-03	DS24-03	DS24-01	DS24-01	DS24-03	
		Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
		Top Depth (m):		0.3	1.2	0.8	1.3	0.3	0.9	3.70	
		Date Sampled:		29-Jul-2024	29-Jul-2024	30-Jul-2024	30-Jul-2024	30-Jul-2024	30-Jul-2024	30-Jul-2024	
		Asbestos Lab:		NEW-ASB	NEW-ASB	NEW-ASB		NEW-ASB	NEW-ASB		
Determinand	HWOL Code	Accred.	SOP	Units	LOD						
2,6-Dinitrotoluene		N	2790	mg/kg	0.50					< 0.50	
Acenaphthene		U	2790	mg/kg	0.50					< 0.50	
3-Nitroaniline		N	2790	mg/kg	0.50					< 0.50	
Dibenzofuran		U	2790	mg/kg	0.50					< 0.50	
4-Chlorophenylphenylether		U	2790	mg/kg	0.50					< 0.50	
2,4-Dinitrotoluene		N	2790	mg/kg	0.50					< 0.50	
Fluorene		U	2790	mg/kg	0.50					< 0.50	
Diethyl Phthalate		U	2790	mg/kg	0.50					< 0.50	
4-Nitroaniline		N	2790	mg/kg	0.50					< 0.50	
Azobenzene		U	2790	mg/kg	0.50					< 0.50	
4-Bromophenylphenyl Ether		U	2790	mg/kg	0.50					< 0.50	
Hexachlorobenzene		U	2790	mg/kg	0.50					< 0.50	
Phenanthrene		U	2790	mg/kg	0.50					0.56	
Anthracene		U	2790	mg/kg	0.50					< 0.50	
Carbazole		U	2790	mg/kg	0.50					< 0.50	
Di-N-Butyl Phthalate		N	2790	mg/kg	0.50					< 0.50	
Fluoranthene		U	2790	mg/kg	0.50					0.91	
Pyrene		U	2790	mg/kg	0.50					0.63	
Butylbenzyl Phthalate		N	2790	mg/kg	0.50					< 0.50	
Benzo[a]anthracene		U	2790	mg/kg	0.50					< 0.50	
Chrysene		U	2790	mg/kg	0.50					< 0.50	
Bis(2-Ethylhexyl)Phthalate		N	2790	mg/kg	0.50					< 0.50	
Di-N-Octyl Phthalate		N	2790	mg/kg	0.50					< 0.50	
Benzo[b]fluoranthene		U	2790	mg/kg	0.50					< 0.50	
Benzo[k]fluoranthene		U	2790	mg/kg	0.50					< 0.50	
Benzo[a]pyrene		U	2790	mg/kg	0.50					< 0.50	
Indeno(1,2,3-c,d)Pyrene		N	2790	mg/kg	0.50					< 0.50	
Dibenz(a,h)Anthracene		N	2790	mg/kg	0.50					< 0.50	
Benzo[g,h,i]perylene		U	2790	mg/kg	0.50					< 0.50	
Naphthalene		U	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.26	< 0.10
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene		U	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.12	< 0.10
Fluorene		U	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.14	< 0.10
Phenanthrene		U	2800	mg/kg	0.10	1.2	0.82	0.70	< 0.10	1.0	< 0.10
Anthracene		U	2800	mg/kg	0.10	0.93	0.45	0.16	< 0.10	0.27	< 0.10
Fluoranthene		U	2800	mg/kg	0.10	3.2	1.7	1.0	< 0.10	1.9	< 0.10
Pyrene		U	2800	mg/kg	0.10	3.1	1.5	1.1	< 0.10	2.1	< 0.10

Results - Soil

Project: 24/3980 - Thorney Lane

Client: Concept Engineering Consultants		Chemtest Job No.:		24-24394	24-24394	24-24394	24-24394	24-24394	24-24394	24-24394	
Quotation No.: Q24-34527		Chemtest Sample ID.:		1843892	1843893	1843895	1843896	1843898	1843899	1843900	
		Client Sample ID.:		21	22	24	25	28	29		
		Sample Location:		BH24-04A	BH24-04A	DS24-03	DS24-03	DS24-01	DS24-01	DS24-03	
		Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
		Top Depth (m):		0.3	1.2	0.8	1.3	0.3	0.9	3.70	
		Date Sampled:		29-Jul-2024	29-Jul-2024	30-Jul-2024	30-Jul-2024	30-Jul-2024	30-Jul-2024	30-Jul-2024	
		Asbestos Lab:		NEW-ASB	NEW-ASB	NEW-ASB		NEW-ASB	NEW-ASB		
Determinand	HWOL Code	Accred.	SOP	Units	LOD						
Benzo[a]anthracene		U	2800	mg/kg	0.10	2.8	1.2	0.47	< 0.10	1.1	< 0.10
Chrysene		U	2800	mg/kg	0.10	2.7	1.2	0.42	< 0.10	1.1	< 0.10
Benzo[b]fluoranthene		U	2800	mg/kg	0.10	3.1	1.3	< 0.10	< 0.10	1.6	< 0.10
Benzo[k]fluoranthene		U	2800	mg/kg	0.10	2.6	1.1	< 0.10	< 0.10	0.57	< 0.10
Benzo[a]pyrene		U	2800	mg/kg	0.10	2.6	1.1	< 0.10	< 0.10	1.3	< 0.10
Indeno(1,2,3-c,d)Pyrene		U	2800	mg/kg	0.10	3.0	1.2	< 0.10	< 0.10	0.90	< 0.10
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	2.0	0.71	< 0.10	< 0.10	0.25	< 0.10
Benzo[g,h,i]perylene		U	2800	mg/kg	0.10	2.7	1.0	< 0.10	< 0.10	1.1	< 0.10
Total Of 16 PAH's		N	2800	mg/kg	2.0	30	13	3.9	< 2.0	14	< 2.0
PCB 81		N	2815	mg/kg	0.010			< 0.010		< 0.010	
PCB 77		U	2815	mg/kg	0.010			< 0.010		< 0.010	
PCB 105		N	2815	mg/kg	0.010			< 0.010		< 0.010	
PCB 114		N	2815	mg/kg	0.010			< 0.010		< 0.010	
PCB 118		N	2815	mg/kg	0.010			< 0.010		< 0.010	
PCB 123		N	2815	mg/kg	0.010			< 0.010		< 0.010	
PCB 126		N	2815	mg/kg	0.010			< 0.010		< 0.010	
PCB 156		N	2815	mg/kg	0.010			< 0.010		< 0.010	
PCB 157		N	2815	mg/kg	0.010			< 0.010		< 0.010	
PCB 167		N	2815	mg/kg	0.010			< 0.010		< 0.010	
PCB 169		N	2815	mg/kg	0.010			< 0.010		< 0.010	
PCB 189		N	2815	mg/kg	0.010			< 0.010		< 0.010	
Total PCBs (12 Congeners)		N	2815	mg/kg	0.12			< 0.12		< 0.12	
Total Phenols		U	2920	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
1020	Electrical Conductivity and Total Dissolved Solids (TDS) in Waters	Electrical Conductivity at 25°C and Total Dissolved Solids (TDS) in Waters	Conductivity Meter	
1220	Anions, Alkalinity & Ammonium in Waters	Fluoride; Chloride; Nitrite; Nitrate; Total; Oxidisable Nitrogen (TON); Sulfate; Phosphate; Alkalinity; Ammonium	Automated colorimetric analysis using 'Aquakem 600' Discrete Analyser.	
1455	Metals in Waters by ICP-MS	Metals, including: Antimony; Arsenic; Barium; Beryllium; Boron; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Tin; Vanadium; Zinc	Filtration of samples followed by direct determination by inductively coupled plasma mass spectrometry (ICP-MS).	
1610	Total/Dissolved Organic Carbon in Waters	Organic Carbon	TOC Analyser using Catalytic Oxidation	
1920	Phenols in Waters by HPLC	Phenolic compounds including: Phenol, Cresols, Xylenols, Trimethylphenols Note: Chlorophenols are excluded.	Determination by High Performance Liquid Chromatography (HPLC) using electrochemical detection.	
2010	pH Value of Soils	pH at 20°C	pH Meter	
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <30°C.	
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930	
2120	Water Soluble Boron, Sulphate, Magnesium & Chromium	Boron; Sulphate; Magnesium; Chromium	Aqueous extraction / ICP-OES	
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry	
2300	Cyanides & Thiocyanate in Soils	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Alkaline extraction followed by colorimetric determination using Automated Flow Injection Analyser.	
2455	Acid Soluble Metals in Soils	Metals, including: Arsenic; Barium; Beryllium; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Vanadium; Zinc	Acid digestion followed by determination of metals in extract by ICP-MS.	
2490	Hexavalent Chromium in Soils	Chromium [VI]	Soil extracts are prepared by extracting dried and ground soil samples into boiling water. Chromium [VI] is determined by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazine.	
2625	Total Organic Carbon in Soils	Total organic Carbon (TOC)	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.	
2690	EPH A/A Split	Aliphatics: >C10-C12, >C12-C16, >C16-C21, >C21- C35, >C35- C40 Aromatics: >C10-C12, >C12-C16, >C16-C21, >C21- C35, >C35- C40	Acetone/Heptane extraction / GCxGC FID detection	
2760	Volatile Organic Compounds (VOCs) in Soils by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics.(cf. USEPA Method 8260)*please refer to UKAS schedule	Automated headspace gas chromatographic (GC) analysis of a soil sample, as received, with mass spectrometric (MS) detection of volatile organic compounds.	
2780	VPH A/A Split	Aliphatics: >C5-C6, >C6-C7,>C7-C8,>C8-C10 Aromatics: >C5-C7,>C7-C8,>C8-C10	Water extraction / Headspace GCxGC FID detection	
2790	Semi-Volatile Organic Compounds (SVOCs) in Soils by GC-MS	Semi-volatile organic compounds(cf. USEPA Method 8270)	Acetone/Hexane extraction / GC-MS	
2800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-MS	Acenaphthene*; Acenaphthylene; Anthracene*; Benzo[a]Anthracene*; Benzo[a]Pyrene*; Benzo[b]Fluoranthene*; Benzo[ghi]Perylene*; Benzo[k]Fluoranthene; Chrysene*; Dibenz[ah]Anthracene; Fluoranthene*; Fluorene*; Indeno[123cd]Pyrene*; Naphthalene*; Phenanthrene*; Pyrene*	Dichloromethane extraction / GC-MS	

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
2810	Polychlorinated Biphenyls (PCB) as Aroclors in Soils by GC-ECD	Polychlorinated Biphenyls expressed as an Aroclor (normally reported as *Aroclor 1242)	Extraction of a soil sample, as received, into hexane/acetone (50:50) followed by gas chromatography (GC) using mass spectrometric (MS) detection for identification of polychlorinated biphenyls and electron capture detection (ECD) for quantitation if present.	
2815	Polychlorinated Biphenyls (PCB) ICES7Congeners in Soils by GC-MS	ICES7 PCB congeners	Acetone/Hexane extraction / GC-MS. Reported PCB 101 results may contain contributions from PCB 90 due to inseparable chromatography.	
2920	Phenols in Soils by HPLC	Phenolic compounds including Resorcinol, Phenol, Methylphenols, Dimethylphenols, 1-Naphthol and Trimethylphenols Note: chlorophenols are excluded.	60:40 methanol/water mixture extraction, followed by HPLC determination using electrochemical detection.	
640	Characterisation of Waste (Leaching C10)	Waste material including soil, sludges and granular waste	Compliance Test for Leaching of Granular Waste Material and Sludge	

Report Information

Key

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

This report shall not be reproduced except in full, and only with the prior approval of the laboratory.

Any comments or interpretations are outside the scope of UKAS accreditation.

The Laboratory is not accredited for any sampling activities and reported results relate to the samples 'as received' at the laboratory.

Uncertainty of measurement for the determinands tested are available upon request .

None of the results in this report have been recovery corrected.

All results are expressed on a dry weight basis.

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

For all other tests the samples were dried at $\leq 30^{\circ}\text{C}$ prior to analysis.

All Asbestos testing is performed at the indicated laboratory .

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

Sample Deviation Codes

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

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt.

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

Charges may apply to extended sample storage.

Water Sample Category Key for Accreditation

- DW - Drinking Water
- GW - Ground Water
- LE - Land Leachate
- NA - Not Applicable

Report Information

PL - Prepared Leachate
PW - Processed Water
RE - Recreational Water
SA - Saline Water
SW - Surface Water
TE - Treated Effluent
TS - Treated Sewage
UL - Unspecified Liquid

Clean Up Codes

NC - No Clean Up
MC - Mathematical Clean Up
FC - Florisil Clean Up

HWOL Acronym System

HS - Headspace analysis
EH - Extractable hydrocarbons – i.e. everything extracted by the solvent
CU - Clean-up – e.g. by Florisil, silica gel
1D - GC – Single coil gas chromatography
Total - Aliphatics & Aromatics
AL - Aliphatics only
AR - Aromatic only
2D - GC-GC – Double coil gas chromatography
#1 - EH_2D_Total but with humics mathematically subtracted
#2 - EH_2D_Total but with fatty acids mathematically subtracted
+ - Operator to indicate cumulative e.g. EH+EH_Total or EH_CU+HS_Total

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

Final Report

Report No.: 24-24582-1

Initial Date of Issue: 13-Aug-2024

Re-Issue Details:

Client Concept Engineering Consultants

Client Address:
 Unit D
 Herald Way Binley Industrial Estate
 Coventry
 CV3 2RQ

Contact(s):
 Kasia Mazerant
 Lab
 Gabriela Mandache

Project 24/3980- Thorney Lane

Quotation No.: Q24-34527 **Date Received:** 01-Aug-2024

Order No.: 103152 (CL6119) **Date Instructed:** 02-Aug-2024

No. of Samples: 3

Turnaround (Wkdays): 5 **Results Due:** 08-Aug-2024

Date Approved: 13-Aug-2024

Approved By:



Details: David Smith, Technical Director

For details about application of accreditation to specific matrix types, please refer to the Table at the back of this report

Results - Leachate

Project: 24/3980- Thorney Lane

Client: Concept Engineering Consultants	Chemtest Job No.: 24-24582					
Quotation No.: Q24-34527	Chemtest Sample ID.: 1844620					
	Client Sample ID.: 32					
	Sample Location: DS24-01					
	Sample Type: SOIL					
	Top Depth (m): 1.6					
	Date Sampled: 31-Jul-2024					
Determinand	Accred.	SOP	Type	Units	LOD	
Total Dissolved Solids	N	1020	10:1	mg/l	1.0	83
Chloride	U	1220	10:1	mg/l	1.0	2.6
Fluoride	U	1220	10:1	mg/l	0.050	0.34
Sulphate	U	1220	10:1	mg/l	1.0	42
Arsenic (Dissolved)	U	1455	10:1	µg/l	0.20	0.79
Barium (Dissolved)	U	1455	10:1	µg/l	5.00	5.2
Cadmium (Dissolved)	U	1455	10:1	µg/l	0.11	< 0.11
Chromium (Dissolved)	U	1455	10:1	µg/l	0.50	< 0.50
Copper (Dissolved)	U	1455	10:1	µg/l	0.50	< 0.50
Mercury (Dissolved)	U	1455	10:1	µg/l	0.05	< 0.05
Molybdenum (Dissolved)	U	1455	10:1	µg/l	0.20	1.7
Nickel (Dissolved)	U	1455	10:1	µg/l	0.50	< 0.50
Lead (Dissolved)	U	1455	10:1	µg/l	0.50	< 0.50
Antimony (Dissolved)	U	1455	10:1	µg/l	0.50	< 0.50
Selenium (Dissolved)	U	1455	10:1	µg/l	0.50	12
Zinc (Dissolved)	U	1455	10:1	µg/l	2.5	7.2
Dissolved Organic Carbon	U	1610	10:1	mg/l	2.0	2.1
Total Phenols	U	1920	10:1	mg/l	0.030	< 0.030

Results - Soil

Project: 24/3980- Thorney Lane

Client: Concept Engineering Consultants		Chemtest Job No.:				24-24582	24-24582	24-24582
Quotation No.: Q24-34527		Chemtest Sample ID.:				1844618	1844619	1844620
		Client Sample ID.:				30	31	32
		Sample Location:				DS24-04	DS24-04	DS24-01
		Sample Type:				SOIL	SOIL	SOIL
		Top Depth (m):				0.3	0.9	1.6
		Date Sampled:				31-Jul-2024	31-Jul-2024	31-Jul-2024
		Asbestos Lab:				DURHAM	DURHAM	
Determinand	HWOL Code	Accred.	SOP	Units	LOD			
ACM Type		U	2192		N/A	-	-	
Asbestos Identification		U	2192		N/A	No Asbestos Detected	No Asbestos Detected	
Moisture		N	2030	%	0.020	11	9.1	20
Soil Colour		N	2040		N/A	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones	Stones	None
Soil Texture		N	2040		N/A	Sand	Sand	Clay
pH at 20C		U	2010		4.0	8.0	8.0	7.9
Boron (Hot Water Soluble)		U	2120	mg/kg	0.40	0.88	0.83	0.54
Cyanide (Complex)		U	2300	mg/kg	0.50	0.90		
Cyanide (Free)		U	2300	mg/kg	0.50	0.70		
Cyanide (Total)		U	2300	mg/kg	0.50	1.6	< 0.50	< 0.50
Thiocyanate		U	2300	mg/kg	5.0	< 5.0		
Arsenic		U	2455	mg/kg	0.5	11	10	7.1
Beryllium		U	2455	mg/kg	0.5	< 0.5	< 0.5	0.7
Cadmium		U	2455	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Chromium		U	2455	mg/kg	0.5	21	17	27
Antimony		N	2455	mg/kg	2.0	< 2.0	< 2.0	< 2.0
Copper		U	2455	mg/kg	0.50	85	14	46
Mercury		U	2455	mg/kg	0.05	0.05	0.06	< 0.05
Nickel		U	2455	mg/kg	0.50	20	13	30
Lead		U	2455	mg/kg	0.50	47	38	11
Selenium		U	2455	mg/kg	0.25	0.56	0.26	1.1
Vanadium		U	2455	mg/kg	0.5	32	20	55
Zinc		U	2455	mg/kg	0.50	72	37	65
Chromium (Hexavalent)		N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	U	2690	mg/kg	2.00	< 2.0	< 2.0	< 2.0
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	U	2690	mg/kg	1.00	11	9.8	< 1.0
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	U	2690	mg/kg	2.00	82	160	< 2.0
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	U	2690	mg/kg	3.00	310	630	< 3.0
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	320	73	< 10

Results - Soil

Project: 24/3980- Thorney Lane

Client: Concept Engineering Consultants		Chemtest Job No.:				24-24582	24-24582	24-24582
Quotation No.: Q24-34527		Chemtest Sample ID.:				1844618	1844619	1844620
		Client Sample ID.:				30	31	32
		Sample Location:				DS24-04	DS24-04	DS24-01
		Sample Type:				SOIL	SOIL	SOIL
		Top Depth (m):				0.3	0.9	1.6
		Date Sampled:				31-Jul-2024	31-Jul-2024	31-Jul-2024
		Asbestos Lab:				DURHAM	DURHAM	
Determinand	HWOL Code	Accred.	SOP	Units	LOD			
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	U	2690	mg/kg	5.00	410	810	< 5.0
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	720	880	< 10
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	< 1.0	< 1.0
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	7.6	4.1	< 1.0
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	46	100	< 2.0
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	68	9.2	< 2.0
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	170	7.9	< 1.0
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	120	110	< 5.0
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	300	120	< 10
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	< 0.50	< 0.50	< 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	530	920	< 10
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	1000	1000	< 10
Total Organic Carbon		U	2625	%	0.20	1.3	0.70	0.39
Dichlorodifluoromethane		U	2760	µg/kg	1.0			< 1.0
Chloromethane		U	2760	µg/kg	1.0			< 1.0
Vinyl Chloride		U	2760	µg/kg	1.0			< 1.0
Bromomethane		U	2760	µg/kg	20			< 20
Chloroethane		U	2760	µg/kg	2.0			< 2.0
Trichlorofluoromethane		U	2760	µg/kg	1.0			< 1.0
1,1-Dichloroethene		U	2760	µg/kg	1.0			< 1.0
Dichloromethane		N	2760	µg/kg	50			< 50
Trans 1,2-Dichloroethene		U	2760	µg/kg	1.0			< 1.0
1,1-Dichloroethane		U	2760	µg/kg	1.0			< 1.0
cis 1,2-Dichloroethene		U	2760	µg/kg	1.0			< 1.0
Bromochloromethane		U	2760	µg/kg	5.0			< 5.0
Trichloromethane		U	2760	µg/kg	1.0			< 1.0
1,1,1-Trichloroethane		U	2760	µg/kg	1.0			< 1.0
Tetrachloromethane		U	2760	µg/kg	1.0			< 1.0
1,1-Dichloropropene		U	2760	µg/kg	1.0			< 1.0
Benzene		U	2760	mg/kg	0.0010	< 0.0010	< 0.0010	
Benzene		U	2760	µg/kg	1.0			< 1.0
1,2-Dichloroethane		U	2760	µg/kg	2.0			< 2.0
Trichloroethene		N	2760	µg/kg	1.0			< 1.0

Results - Soil

Project: 24/3980- Thorney Lane

Client: Concept Engineering Consultants		Chemtest Job No.:		24-24582	24-24582	24-24582
Quotation No.: Q24-34527		Chemtest Sample ID.:		1844618	1844619	1844620
		Client Sample ID.:		30	31	32
		Sample Location:		DS24-04	DS24-04	DS24-01
		Sample Type:		SOIL	SOIL	SOIL
		Top Depth (m):		0.3	0.9	1.6
		Date Sampled:		31-Jul-2024	31-Jul-2024	31-Jul-2024
		Asbestos Lab:		DURHAM	DURHAM	
Determinand	HWOL Code	Accred.	SOP	Units	LOD	
1,2-Dichloropropane		U	2760	µg/kg	1.0	< 1.0
Dibromomethane		U	2760	µg/kg	1.0	< 1.0
Bromodichloromethane		U	2760	µg/kg	5.0	< 5.0
cis-1,3-Dichloropropene		N	2760	µg/kg	10	< 10
Toluene		U	2760	mg/kg	0.0010	< 0.0010 < 0.0010
Toluene		U	2760	µg/kg	1.0	< 1.0
Trans-1,3-Dichloropropene		N	2760	µg/kg	10	< 10
1,1,2-Trichloroethane		U	2760	µg/kg	10	< 10
Tetrachloroethene		U	2760	µg/kg	1.0	< 1.0
1,3-Dichloropropane		U	2760	µg/kg	2.0	< 2.0
Dibromochloromethane		U	2760	µg/kg	10	< 10
1,2-Dibromoethane		U	2760	µg/kg	5.0	< 5.0
Chlorobenzene		U	2760	µg/kg	1.0	< 1.0
1,1,1,2-Tetrachloroethane		U	2760	µg/kg	2.0	< 2.0
Ethylbenzene		U	2760	mg/kg	0.0010	< 0.0010 < 0.0010
Ethylbenzene		U	2760	µg/kg	1.0	< 1.0
m & p-Xylene		U	2760	mg/kg	0.0010	< 0.0010 < 0.0010
m & p-Xylene		U	2760	µg/kg	1.0	< 1.0
o-Xylene		U	2760	mg/kg	0.0010	< 0.0010 < 0.0010
o-Xylene		U	2760	µg/kg	1.0	< 1.0
Styrene		U	2760	µg/kg	1.0	< 1.0
Tribromomethane		U	2760	µg/kg	1.0	< 1.0
Isopropylbenzene		U	2760	µg/kg	1.0	< 1.0
Bromobenzene		U	2760	µg/kg	1.0	< 1.0
1,2,3-Trichloropropane		N	2760	µg/kg	50	< 50
N-Propylbenzene		U	2760	µg/kg	1.0	< 1.0
2-Chlorotoluene		U	2760	µg/kg	1.0	< 1.0
1,3,5-Trimethylbenzene		U	2760	µg/kg	1.0	< 1.0
4-Chlorotoluene		U	2760	µg/kg	1.0	< 1.0
Tert-Butylbenzene		U	2760	µg/kg	1.0	< 1.0
1,2,4-Trimethylbenzene		U	2760	µg/kg	1.0	< 1.0
Sec-Butylbenzene		U	2760	µg/kg	1.0	< 1.0
1,3-Dichlorobenzene		U	2760	µg/kg	1.0	< 1.0
4-Isopropyltoluene		U	2760	µg/kg	1.0	< 1.0
1,4-Dichlorobenzene		U	2760	µg/kg	1.0	< 1.0
N-Butylbenzene		U	2760	µg/kg	1.0	< 1.0
1,2-Dichlorobenzene		U	2760	µg/kg	1.0	< 1.0

Results - Soil

Project: 24/3980- Thorney Lane

Client: Concept Engineering Consultants		Chemtest Job No.:		24-24582	24-24582	24-24582
Quotation No.: Q24-34527		Chemtest Sample ID.:		1844618	1844619	1844620
		Client Sample ID.:		30	31	32
		Sample Location:		DS24-04	DS24-04	DS24-01
		Sample Type:		SOIL	SOIL	SOIL
		Top Depth (m):		0.3	0.9	1.6
		Date Sampled:		31-Jul-2024	31-Jul-2024	31-Jul-2024
		Asbestos Lab:		DURHAM	DURHAM	
Determinand	HWOL Code	Accred.	SOP	Units	LOD	
1,2-Dibromo-3-Chloropropane		U	2760	µg/kg	50	< 50
1,2,4-Trichlorobenzene		U	2760	µg/kg	1.0	< 1.0
Hexachlorobutadiene		N	2760	µg/kg	1.0	< 1.0
1,2,3-Trichlorobenzene		U	2760	µg/kg	2.0	< 2.0
Methyl Tert-Butyl Ether		U	2760	mg/kg	0.0010	< 0.0010
Methyl Tert-Butyl Ether		U	2760	µg/kg	1.0	< 1.0
N-Nitrosodimethylamine		U	2790	mg/kg	0.50	< 0.50
Phenol		U	2790	mg/kg	0.50	< 0.50
2-Chlorophenol		N	2790	mg/kg	0.50	< 0.50
Bis-(2-Chloroethyl)Ether		U	2790	mg/kg	0.50	< 0.50
1,3-Dichlorobenzene		U	2790	mg/kg	0.50	< 0.50
1,4-Dichlorobenzene		N	2790	mg/kg	0.50	< 0.50
1,2-Dichlorobenzene		U	2790	mg/kg	0.50	< 0.50
2-Methylphenol		U	2790	mg/kg	0.50	< 0.50
Bis(2-Chloroisopropyl)Ether		U	2790	mg/kg	0.50	< 0.50
Hexachloroethane		N	2790	mg/kg	0.50	< 0.50
N-Nitrosodi-n-propylamine		U	2790	mg/kg	0.50	< 0.50
4-Methylphenol		U	2790	mg/kg	0.50	< 0.50
Nitrobenzene		N	2790	mg/kg	0.50	< 0.50
Isophorone		U	2790	mg/kg	0.50	< 0.50
2-Nitrophenol		N	2790	mg/kg	0.50	< 0.50
2,4-Dimethylphenol		N	2790	mg/kg	0.50	< 0.50
Bis(2-Chloroethoxy)Methane		U	2790	mg/kg	0.50	< 0.50
2,4-Dichlorophenol		N	2790	mg/kg	0.50	< 0.50
1,2,4-Trichlorobenzene		U	2790	mg/kg	0.50	< 0.50
Naphthalene		U	2790	mg/kg	0.50	< 0.50
4-Chloroaniline		N	2790	mg/kg	0.50	< 0.50
Hexachlorobutadiene		U	2790	mg/kg	0.50	< 0.50
4-Chloro-3-Methylphenol		N	2790	mg/kg	0.50	< 0.50
2-Methylnaphthalene		U	2790	mg/kg	0.50	< 0.50
4-Nitrophenol		N	2790	mg/kg	0.50	< 0.50
2,4,6-Trichlorophenol		N	2790	mg/kg	0.50	< 0.50
2,4,5-Trichlorophenol		N	2790	mg/kg	0.50	< 0.50
2-Chloronaphthalene		U	2790	mg/kg	0.50	< 0.50
2-Nitroaniline		N	2790	mg/kg	0.50	< 0.50
Acenaphthylene		U	2790	mg/kg	0.50	< 0.50
Dimethylphthalate		U	2790	mg/kg	0.50	< 0.50

Results - Soil

Project: 24/3980- Thorney Lane

Client: Concept Engineering Consultants		Chemtest Job No.:		24-24582	24-24582	24-24582
Quotation No.: Q24-34527		Chemtest Sample ID.:		1844618	1844619	1844620
		Client Sample ID.:		30	31	32
		Sample Location:		DS24-04	DS24-04	DS24-01
		Sample Type:		SOIL	SOIL	SOIL
		Top Depth (m):		0.3	0.9	1.6
		Date Sampled:		31-Jul-2024	31-Jul-2024	31-Jul-2024
		Asbestos Lab:		DURHAM	DURHAM	
Determinand	HWOL Code	Accred.	SOP	Units	LOD	
2,6-Dinitrotoluene		N	2790	mg/kg	0.50	< 0.50
Acenaphthene		U	2790	mg/kg	0.50	< 0.50
3-Nitroaniline		N	2790	mg/kg	0.50	< 0.50
Dibenzofuran		U	2790	mg/kg	0.50	< 0.50
4-Chlorophenylphenylether		U	2790	mg/kg	0.50	< 0.50
2,4-Dinitrotoluene		N	2790	mg/kg	0.50	< 0.50
Fluorene		U	2790	mg/kg	0.50	< 0.50
Diethyl Phthalate		U	2790	mg/kg	0.50	< 0.50
4-Nitroaniline		N	2790	mg/kg	0.50	< 0.50
Azobenzene		U	2790	mg/kg	0.50	< 0.50
4-Bromophenylphenyl Ether		U	2790	mg/kg	0.50	< 0.50
Hexachlorobenzene		U	2790	mg/kg	0.50	< 0.50
Phenanthrene		U	2790	mg/kg	0.50	< 0.50
Anthracene		U	2790	mg/kg	0.50	< 0.50
Carbazole		U	2790	mg/kg	0.50	< 0.50
Di-N-Butyl Phthalate		N	2790	mg/kg	0.50	< 0.50
Fluoranthene		U	2790	mg/kg	0.50	< 0.50
Pyrene		U	2790	mg/kg	0.50	< 0.50
Butylbenzyl Phthalate		N	2790	mg/kg	0.50	< 0.50
Benzo[a]anthracene		U	2790	mg/kg	0.50	< 0.50
Chrysene		U	2790	mg/kg	0.50	< 0.50
Bis(2-Ethylhexyl)Phthalate		N	2790	mg/kg	0.50	< 0.50
Di-N-Octyl Phthalate		N	2790	mg/kg	0.50	< 0.50
Benzo[b]fluoranthene		U	2790	mg/kg	0.50	< 0.50
Benzo[k]fluoranthene		U	2790	mg/kg	0.50	< 0.50
Benzo[a]pyrene		U	2790	mg/kg	0.50	< 0.50
Indeno(1,2,3-c,d)Pyrene		N	2790	mg/kg	0.50	< 0.50
Dibenz(a,h)Anthracene		N	2790	mg/kg	0.50	< 0.50
Benzo[g,h,i]perylene		U	2790	mg/kg	0.50	< 0.50
Naphthalene		U	2800	mg/kg	0.10	< 0.10 < 0.10
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10 < 0.10
Acenaphthene		U	2800	mg/kg	0.10	< 0.10 < 0.10
Fluorene		U	2800	mg/kg	0.10	< 0.10 < 0.10
Phenanthrene		U	2800	mg/kg	0.10	0.87 0.29
Anthracene		U	2800	mg/kg	0.10	0.23 < 0.10
Fluoranthene		U	2800	mg/kg	0.10	1.7 0.54
Pyrene		U	2800	mg/kg	0.10	2.0 0.49

Results - Soil

Project: 24/3980- Thorney Lane

Client: Concept Engineering Consultants		Chemtest Job No.:		24-24582	24-24582	24-24582	
Quotation No.: Q24-34527		Chemtest Sample ID.:		1844618	1844619	1844620	
		Client Sample ID.:		30	31	32	
		Sample Location:		DS24-04	DS24-04	DS24-01	
		Sample Type:		SOIL	SOIL	SOIL	
		Top Depth (m):		0.3	0.9	1.6	
		Date Sampled:		31-Jul-2024	31-Jul-2024	31-Jul-2024	
		Asbestos Lab:		DURHAM	DURHAM		
Determinand	HWOL Code	Accred.	SOP	Units	LOD		
Benzo[a]anthracene		U	2800	mg/kg	0.10	0.88	0.30
Chrysene		U	2800	mg/kg	0.10	0.89	0.40
Benzo[b]fluoranthene		U	2800	mg/kg	0.10	1.2	< 0.10
Benzo[k]fluoranthene		U	2800	mg/kg	0.10	0.36	< 0.10
Benzo[a]pyrene		U	2800	mg/kg	0.10	0.90	< 0.10
Indeno(1,2,3-c,d)Pyrene		U	2800	mg/kg	0.10	0.49	< 0.10
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene		U	2800	mg/kg	0.10	0.52	< 0.10
Total Of 16 PAH's		N	2800	mg/kg	2.0	10	2.0
Total Phenols		U	2920	mg/kg	0.10	< 0.10	0.22 < 0.10

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
1020	Electrical Conductivity and Total Dissolved Solids (TDS) in Waters	Electrical Conductivity at 25°C and Total Dissolved Solids (TDS) in Waters	Conductivity Meter	
1220	Anions, Alkalinity & Ammonium in Waters	Fluoride; Chloride; Nitrite; Nitrate; Total; Oxidisable Nitrogen (TON); Sulfate; Phosphate; Alkalinity; Ammonium	Automated colorimetric analysis using 'Aquakem 600' Discrete Analyser.	
1455	Metals in Waters by ICP-MS	Metals, including: Antimony; Arsenic; Barium; Beryllium; Boron; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Tin; Vanadium; Zinc	Filtration of samples followed by direct determination by inductively coupled plasma mass spectrometry (ICP-MS).	
1610	Total/Dissolved Organic Carbon in Waters	Organic Carbon	TOC Analyser using Catalytic Oxidation	
1920	Phenols in Waters by HPLC	Phenolic compounds including: Phenol, Cresols, Xylenols, Trimethylphenols Note: Chlorophenols are excluded.	Determination by High Performance Liquid Chromatography (HPLC) using electrochemical detection.	
2010	pH Value of Soils	pH at 20°C	pH Meter	
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <30°C.	
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930	
2120	Water Soluble Boron, Sulphate, Magnesium & Chromium	Boron; Sulphate; Magnesium; Chromium	Aqueous extraction / ICP-OES	
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry	
2300	Cyanides & Thiocyanate in Soils	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Alkaline extraction followed by colorimetric determination using Automated Flow Injection Analyser.	
2455	Acid Soluble Metals in Soils	Metals, including: Arsenic; Barium; Beryllium; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Vanadium; Zinc	Acid digestion followed by determination of metals in extract by ICP-MS.	
2490	Hexavalent Chromium in Soils	Chromium [VI]	Soil extracts are prepared by extracting dried and ground soil samples into boiling water. Chromium [VI] is determined by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazine.	
2625	Total Organic Carbon in Soils	Total organic Carbon (TOC)	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.	
2690	EPH A/A Split	Aliphatics: >C10-C12, >C12-C16, >C16-C21, >C21- C35, >C35- C40 Aromatics: >C10-C12, >C12-C16, >C16-C21, >C21- C35, >C35- C40	Acetone/Heptane extraction / GCxGC FID detection	
2760	Volatile Organic Compounds (VOCs) in Soils by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics.(cf. USEPA Method 8260)*please refer to UKAS schedule	Automated headspace gas chromatographic (GC) analysis of a soil sample, as received, with mass spectrometric (MS) detection of volatile organic compounds.	
2780	VPH A/A Split	Aliphatics: >C5-C6, >C6-C7,>C7-C8,>C8-C10 Aromatics: >C5-C7,>C7-C8,>C8-C10	Water extraction / Headspace GCxGC FID detection	
2790	Semi-Volatile Organic Compounds (SVOCs) in Soils by GC-MS	Semi-volatile organic compounds(cf. USEPA Method 8270)	Acetone/Hexane extraction / GC-MS	
2800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-MS	Acenaphthene*; Acenaphthylene; Anthracene*; Benzo[a]Anthracene*; Benzo[a]Pyrene*; Benzo[b]Fluoranthene*; Benzo[ghi]Perylene*; Benzo[k]Fluoranthene; Chrysene*; Dibenz[ah]Anthracene; Fluoranthene*; Fluorene*; Indeno[123cd]Pyrene*; Naphthalene*; Phenanthrene*; Pyrene*	Dichloromethane extraction / GC-MS	
2920	Phenols in Soils by HPLC	Phenolic compounds including Resorcinol, Phenol, Methylphenols, Dimethylphenols, 1-Naphthol and TrimethylphenolsNote: chlorophenols are excluded.	60:40 methanol/water mixture extraction, followed by HPLC determination using electrochemical detection.	

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
640	Characterisation of Waste (Leaching C10)	Waste material including soil, sludges and granular waste	Compliance Test for Leaching of Granular Waste Material and Sludge	

Report Information

Key

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

This report shall not be reproduced except in full, and only with the prior approval of the laboratory.

Any comments or interpretations are outside the scope of UKAS accreditation.

The Laboratory is not accredited for any sampling activities and reported results relate to the samples 'as received' at the laboratory.

Uncertainty of measurement for the determinands tested are available upon request .

None of the results in this report have been recovery corrected.

All results are expressed on a dry weight basis.

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

For all other tests the samples were dried at $\leq 30^{\circ}\text{C}$ prior to analysis.

All Asbestos testing is performed at the indicated laboratory .

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

Sample Deviation Codes

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

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt.

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

Charges may apply to extended sample storage.

Water Sample Category Key for Accreditation

- DW - Drinking Water
- GW - Ground Water
- LE - Land Leachate
- NA - Not Applicable

Report Information

PL - Prepared Leachate
PW - Processed Water
RE - Recreational Water
SA - Saline Water
SW - Surface Water
TE - Treated Effluent
TS - Treated Sewage
UL - Unspecified Liquid

Clean Up Codes

NC - No Clean Up
MC - Mathematical Clean Up
FC - Florisil Clean Up

HWOL Acronym System

HS - Headspace analysis
EH - Extractable hydrocarbons – i.e. everything extracted by the solvent
CU - Clean-up – e.g. by Florisil, silica gel
1D - GC – Single coil gas chromatography
Total - Aliphatics & Aromatics
AL - Aliphatics only
AR - Aromatic only
2D - GC-GC – Double coil gas chromatography
#1 - EH_2D_Total but with humics mathematically subtracted
#2 - EH_2D_Total but with fatty acids mathematically subtracted
+ - Operator to indicate cumulative e.g. EH+EH_Total or EH_CU+HS_Total

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



Final Report

Report No.: 24-24795-1

Initial Date of Issue: 23-Aug-2024

Re-Issue Details:

Client Concept Engineering Consultants

Client Address: 47 -49 Brunel Road
London
W3 7XR

Contact(s): Gabriela Mandache
Kasia Mazerant
Lab

Project 24/3980 - Thorney Lane

Quotation No.: Q24-34527

Date Received: 02-Aug-2024

Order No.: 103176 (CL6127) 103198 (CL6133)

Date Instructed: 05-Aug-2024

No. of Samples: 15

Turnaround (Wkdays): 7

Results Due: 13-Aug-2024

Date Approved: 23-Aug-2024

Approved By:

Details: David Smith, Technical Director

For details about application of accreditation to specific matrix types, please refer to the Table at the back of this report

Results - Leachate

Project: 24/3980 - Thorney Lane

Client: Concept Engineering Consultants		Chemtest Job No.:		24-24795	24-24795	24-24795		
Quotation No.: Q24-34527		Chemtest Sample ID.:		1845374	1845377	1845379		
		Client Sample ID.:		42	45	47		
		Sample Location:		DS24-08	DS24-07	DS24-07		
		Sample Type:		SOIL	SOIL	SOIL		
		Top Depth (m):		1.10	0.30	1.10		
		Date Sampled:		01-Aug-2024	01-Aug-2024	01-Aug-2024		
Determinand	Accred.	SOP	Type	Units	LOD			
Total Dissolved Solids	N	1020	10:1	mg/l	1.0	56	64	33
Chloride	U	1220	10:1	mg/l	1.0	1.1	3.7	1.2
Fluoride	U	1220	10:1	mg/l	0.050	0.40	1.4	0.68
Sulphate	U	1220	10:1	mg/l	1.0	17	< 1.0	2.9
Arsenic (Dissolved)	U	1455	10:1	µg/l	0.20	< 0.20	< 0.20	< 0.20
Barium (Dissolved)	U	1455	10:1	µg/l	5.00	6.2	5.8	24
Cadmium (Dissolved)	U	1455	10:1	µg/l	0.11	< 0.11	< 0.11	< 0.11
Chromium (Dissolved)	U	1455	10:1	µg/l	0.50	< 0.50	< 0.50	< 0.50
Copper (Dissolved)	U	1455	10:1	µg/l	0.50	1.6	2.2	9.9
Mercury (Dissolved)	U	1455	10:1	µg/l	0.05	< 0.05	< 0.05	< 0.05
Molybdenum (Dissolved)	U	1455	10:1	µg/l	0.20	3.6	2.0	14
Nickel (Dissolved)	U	1455	10:1	µg/l	0.50	< 0.50	4.5	4.4
Lead (Dissolved)	U	1455	10:1	µg/l	0.50	< 0.50	0.97	9.8
Antimony (Dissolved)	U	1455	10:1	µg/l	0.50	0.70	< 0.50	6.2
Selenium (Dissolved)	U	1455	10:1	µg/l	0.50	< 0.50	< 0.50	< 0.50
Zinc (Dissolved)	U	1455	10:1	µg/l	2.5	3.8	17	13
Dissolved Organic Carbon	U	1610	10:1	mg/l	2.0	< 2.0	8.6	3.7
Total Phenols	U	1920	10:1	mg/l	0.030	< 0.030	< 0.030	< 0.030

Results - Soil

Project: 24/3980 - Thorney Lane

Client: Concept Engineering Consultants		Chemtest Job No.:											
Quotation No.: Q24-34527		Chemtest Sample ID.:											
		Client Sample ID.:											
		Sample Location:											
		Sample Type:											
		Top Depth (m):											
		Date Sampled:											
		Asbestos Lab:											
Determinand	HWOL Code	Accred.	SOP	Units	LOD	24-24795	24-24795	24-24795	24-24795	24-24795	24-24795	24-24795	24-24795
ACM Type		U	2192		N/A	-							
Asbestos Identification		U	2192		N/A	No Asbestos Detected						No Asbestos Detected	No Asbestos Detected
Moisture		N	2030	%	0.020	13	9.4	6.2	7.4	20	4.1	7.5	1.9
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones	Stones	Stones	Stones	None	Stones	Stones	Stones
Soil Texture		N	2040		N/A	Sand	Clay	Sand	Sand	Clay	Sand	Sand	Sand
pH at 20C		M	2010		4.0	10.7	9.3	8.5	8.7	8.8	8.1	9.0	8.2
Boron (Hot Water Soluble)		M	2120	mg/kg	0.40	1.1	0.50	0.51	< 0.40	0.65	0.48	1.3	0.46
Cyanide (Complex)		M	2300	mg/kg	0.50							< 0.50	
Cyanide (Free)		M	2300	mg/kg	0.50							< 0.50	
Cyanide (Total)		M	2300	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Thiocyanate		M	2300	mg/kg	5.0							< 5.0	
Arsenic		M	2455	mg/kg	0.5	3.7	11	13	4.7	11	15	9.3	20
Beryllium		U	2455	mg/kg	0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.6	0.6	< 0.5	1.0
Cadmium		M	2455	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chromium		M	2455	mg/kg	0.5	8.0	19	23	16	36	24	16	26
Antimony		N	2455	mg/kg	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Copper		M	2455	mg/kg	0.50	53	13	10	12	25	17	25	14
Mercury		M	2455	mg/kg	0.05	0.05	< 0.05	< 0.05	< 0.05	< 0.05	0.06	0.09	< 0.05
Nickel		M	2455	mg/kg	0.50	10	18	20	13	35	25	16	27
Lead		M	2455	mg/kg	0.50	22	7.6	13	39	15	33	81	9.6
Selenium		M	2455	mg/kg	0.25	< 0.25	0.58	0.50	< 0.25	1.5	0.51	0.32	0.89
Vanadium		U	2455	mg/kg	0.5	15	30	30	14	50	33	22	43
Zinc		M	2455	mg/kg	0.50	46	32	32	28	71	42	46	40
Chromium (Hexavalent)		N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	5.2	< 1.0	< 1.0	10	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	12	< 2.0	< 2.0	30	< 2.0	< 2.0	< 2.0	< 2.0
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	18	< 3.0	5.0	6.7	< 3.0	8.3	< 3.0	< 3.0
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	35	< 5.0	5.0	47	< 5.0	8.3	< 5.0	< 5.0
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	35	< 10	< 10	47	< 10	< 10	< 10	< 10
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05

Results - Soil

Project: 24/3980 - Thorney Lane

Client: Concept Engineering Consultants		Chemtest Job No.:											
Quotation No.: Q24-34527		Chemtest Sample ID.:											
		Client Sample ID.:											
		Sample Location:											
		Sample Type:											
		Top Depth (m):											
		Date Sampled:											
		Asbestos Lab:											
Determinand	HWOL Code	Accred.	SOP	Units	LOD	24-24795	24-24795	24-24795	24-24795	24-24795	24-24795	24-24795	24-24795
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	< 1.0	< 1.0	2.9	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	8.5	5.9	6.2	17	5.7	9.0	5.5	5.2
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	8.3	< 2.0	< 2.0	2.1	< 2.0	5.6	< 2.0	< 2.0
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	29	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	17	6.2	7.6	22	5.9	15	5.8	5.4
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	46	< 10	< 10	22	< 10	15	< 10	< 10
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	52	< 10	13	69	< 10	23	< 10	< 10
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	81	< 10	13	69	< 10	23	< 10	< 10
Total Organic Carbon		M	2625	%	0.20	2.3	< 0.20	0.25	0.30	0.50	< 0.20	0.40	< 0.20
Dichlorodifluoromethane		U	2760	µg/kg	1.0							< 1.0	
Chloromethane		M	2760	µg/kg	1.0							< 1.0	
Vinyl Chloride		M	2760	µg/kg	1.0							< 1.0	
Bromomethane		M	2760	µg/kg	20							< 20	
Chloroethane		U	2760	µg/kg	2.0							< 2.0	
Trichlorofluoromethane		M	2760	µg/kg	1.0							< 1.0	
1,1-Dichloroethene		M	2760	µg/kg	1.0							< 1.0	
Dichloromethane		N	2760	µg/kg	50							< 50	
Trans 1,2-Dichloroethene		M	2760	µg/kg	1.0							< 1.0	
1,1-Dichloroethane		M	2760	µg/kg	1.0							< 1.0	
cis 1,2-Dichloroethene		M	2760	µg/kg	1.0							< 1.0	
Bromochloromethane		U	2760	µg/kg	5.0							< 5.0	
Trichloromethane		M	2760	µg/kg	1.0							< 1.0	
1,1,1-Trichloroethane		M	2760	µg/kg	1.0							< 1.0	
Tetrachloromethane		M	2760	µg/kg	1.0							< 1.0	
1,1-Dichloropropene		U	2760	µg/kg	1.0							< 1.0	
Benzene		M	2760	mg/kg	0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010		< 0.0010
Benzene		M	2760	µg/kg	1.0							< 1.0	
1,2-Dichloroethane		M	2760	µg/kg	2.0							< 2.0	
Trichloroethene		N	2760	µg/kg	1.0							< 1.0	
1,2-Dichloropropane		M	2760	µg/kg	1.0							< 1.0	
Dibromomethane		M	2760	µg/kg	1.0							< 1.0	
Bromodichloromethane		M	2760	µg/kg	5.0							< 5.0	
cis-1,3-Dichloropropene		N	2760	µg/kg	10							< 10	
Toluene		M	2760	mg/kg	0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010		< 0.0010
Toluene		M	2760	µg/kg	1.0							< 1.0	
Trans-1,3-Dichloropropene		N	2760	µg/kg	10							< 10	
1,1,2-Trichloroethane		M	2760	µg/kg	10							< 10	

Results - Soil

Project: 24/3980 - Thorney Lane

Client: Concept Engineering Consultants		Chemtest Job No.:		24-24795	24-24795	24-24795	24-24795	24-24795	24-24795	24-24795	24-24795	24-24795
Quotation No.: Q24-34527		Chemtest Sample ID.:		1845367	1845368	1845369	1845371	1845372	1845373	1845374	1845375	1845375
		Client Sample ID.:		35	36	37	39	40	41	42	43	
		Sample Location:		BH24-01	BH24-01	DS24-04	DS24-05	DS24-05	DS24-08	DS24-08	DS24-02	
		Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
		Top Depth (m):		0.40	1.20	1.20	1.30	3.20	0.30	1.10	0.30	
		Date Sampled:		31-Jul-2024	31-Jul-2024	31-Jul-2024	01-Aug-2024	01-Aug-2024	01-Aug-2024	01-Aug-2024	01-Aug-2024	
		Asbestos Lab:		NEW-ASB					NEW-ASB	NEW-ASB	NEW-ASB	
Determinand	HWOL Code	Accred.	SOP	Units	LOD							
Tetrachloroethene		M	2760	µg/kg	1.0						< 1.0	
1,3-Dichloropropane		U	2760	µg/kg	2.0						< 2.0	
Dibromochloromethane		U	2760	µg/kg	10						< 10	
1,2-Dibromoethane		M	2760	µg/kg	5.0						< 5.0	
Chlorobenzene		M	2760	µg/kg	1.0						< 1.0	
1,1,1,2-Tetrachloroethane		M	2760	µg/kg	2.0						< 2.0	
Ethylbenzene		M	2760	mg/kg	0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
Ethylbenzene		M	2760	µg/kg	1.0						< 1.0	
m & p-Xylene		M	2760	mg/kg	0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
m & p-Xylene		M	2760	µg/kg	1.0						< 1.0	
o-Xylene		M	2760	mg/kg	0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
o-Xylene		M	2760	µg/kg	1.0						< 1.0	
Styrene		M	2760	µg/kg	1.0						< 1.0	
Tribromomethane		U	2760	µg/kg	1.0						< 1.0	
Isopropylbenzene		M	2760	µg/kg	1.0						< 1.0	
Bromobenzene		M	2760	µg/kg	1.0						< 1.0	
1,2,3-Trichloropropane		N	2760	µg/kg	50						< 50	
N-Propylbenzene		U	2760	µg/kg	1.0						< 1.0	
2-Chlorotoluene		M	2760	µg/kg	1.0						< 1.0	
1,3,5-Trimethylbenzene		M	2760	µg/kg	1.0						< 1.0	
4-Chlorotoluene		U	2760	µg/kg	1.0						< 1.0	
Tert-Butylbenzene		U	2760	µg/kg	1.0						< 1.0	
1,2,4-Trimethylbenzene		M	2760	µg/kg	1.0						< 1.0	
Sec-Butylbenzene		U	2760	µg/kg	1.0						< 1.0	
1,3-Dichlorobenzene		M	2760	µg/kg	1.0						< 1.0	
4-Isopropyltoluene		U	2760	µg/kg	1.0						< 1.0	
1,4-Dichlorobenzene		M	2760	µg/kg	1.0						< 1.0	
N-Butylbenzene		U	2760	µg/kg	1.0						< 1.0	
1,2-Dichlorobenzene		M	2760	µg/kg	1.0						< 1.0	
1,2-Dibromo-3-Chloropropane		U	2760	µg/kg	50						< 50	
1,2,4-Trichlorobenzene		M	2760	µg/kg	1.0						< 1.0	
Hexachlorobutadiene		N	2760	µg/kg	1.0						< 1.0	
1,2,3-Trichlorobenzene		U	2760	µg/kg	2.0						< 2.0	
Methyl Tert-Butyl Ether		M	2760	mg/kg	0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
Methyl Tert-Butyl Ether		M	2760	µg/kg	1.0						< 1.0	
N-Nitrosodimethylamine		M	2790	mg/kg	0.50						< 0.50	
Phenol		M	2790	mg/kg	0.50						< 0.50	
2-Chlorophenol		N	2790	mg/kg	0.50						< 0.50	
Bis-(2-Chloroethyl)Ether		M	2790	mg/kg	0.50						< 0.50	
1,3-Dichlorobenzene		M	2790	mg/kg	0.50						< 0.50	
1,4-Dichlorobenzene		N	2790	mg/kg	0.50						< 0.50	

Results - Soil

Project: 24/3980 - Thorney Lane

Client: Concept Engineering Consultants		Chemtest Job No.:											
Quotation No.: Q24-34527		Chemtest Sample ID.:			24-24795	24-24795	24-24795	24-24795	24-24795	24-24795	24-24795	24-24795	24-24795
		Client Sample ID.:			1845367	1845368	1845369	1845371	1845372	1845373	1845374	1845375	
		Sample Location:			35	36	37	39	40	41	42	43	
		Sample Type:			BH24-01	BH24-01	DS24-04	DS24-05	DS24-05	DS24-08	DS24-08	DS24-02	
		Top Depth (m):			SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
		Date Sampled:			0.40	1.20	1.20	1.30	3.20	0.30	1.10	0.30	
		Asbestos Lab:			31-Jul-2024	31-Jul-2024	31-Jul-2024	01-Aug-2024	01-Aug-2024	01-Aug-2024	01-Aug-2024	01-Aug-2024	
Determinand	HWOL Code	Accred.	SOP	Units	LOD								
1,2-Dichlorobenzene		M	2790	mg/kg	0.50							< 0.50	
2-Methylphenol		M	2790	mg/kg	0.50							< 0.50	
Bis(2-Chloroisopropyl)Ether		M	2790	mg/kg	0.50							< 0.50	
Hexachloroethane		N	2790	mg/kg	0.50							< 0.50	
N-Nitrosodi-n-propylamine		M	2790	mg/kg	0.50							< 0.50	
4-Methylphenol		M	2790	mg/kg	0.50							< 0.50	
Nitrobenzene		N	2790	mg/kg	0.50							< 0.50	
Isophorone		M	2790	mg/kg	0.50							< 0.50	
2-Nitrophenol		N	2790	mg/kg	0.50							< 0.50	
2,4-Dimethylphenol		N	2790	mg/kg	0.50							< 0.50	
Bis(2-Chloroethoxy)Methane		M	2790	mg/kg	0.50							< 0.50	
2,4-Dichlorophenol		N	2790	mg/kg	0.50							< 0.50	
1,2,4-Trichlorobenzene		M	2790	mg/kg	0.50							< 0.50	
Naphthalene		M	2790	mg/kg	0.50							< 0.50	
4-Chloroaniline		N	2790	mg/kg	0.50							< 0.50	
Hexachlorobutadiene		M	2790	mg/kg	0.50							< 0.50	
4-Chloro-3-Methylphenol		N	2790	mg/kg	0.50							< 0.50	
2-Methylnaphthalene		M	2790	mg/kg	0.50							< 0.50	
4-Nitrophenol		N	2790	mg/kg	0.50							< 0.50	
2,4,6-Trichlorophenol		N	2790	mg/kg	0.50							< 0.50	
2,4,5-Trichlorophenol		N	2790	mg/kg	0.50							< 0.50	
2-Chloronaphthalene		M	2790	mg/kg	0.50							< 0.50	
2-Nitroaniline		N	2790	mg/kg	0.50							< 0.50	
Acenaphthylene		M	2790	mg/kg	0.50							< 0.50	
Dimethylphthalate		M	2790	mg/kg	0.50							< 0.50	
2,6-Dinitrotoluene		N	2790	mg/kg	0.50							< 0.50	
Acenaphthene		M	2790	mg/kg	0.50							< 0.50	
3-Nitroaniline		N	2790	mg/kg	0.50							< 0.50	
Dibenzofuran		M	2790	mg/kg	0.50							< 0.50	
4-Chlorophenylphenylether		M	2790	mg/kg	0.50							< 0.50	
2,4-Dinitrotoluene		N	2790	mg/kg	0.50							< 0.50	
Fluorene		M	2790	mg/kg	0.50							< 0.50	
Diethyl Phthalate		M	2790	mg/kg	0.50							< 0.50	
4-Nitroaniline		N	2790	mg/kg	0.50							< 0.50	
Azobenzene		M	2790	mg/kg	0.50							< 0.50	
4-Bromophenylphenyl Ether		M	2790	mg/kg	0.50							< 0.50	
Hexachlorobenzene		M	2790	mg/kg	0.50							< 0.50	
Phenanthrene		M	2790	mg/kg	0.50							< 0.50	
Anthracene		M	2790	mg/kg	0.50							< 0.50	
Carbazole		M	2790	mg/kg	0.50							< 0.50	
Di-N-Butyl Phthalate		N	2790	mg/kg	0.50							< 0.50	

Results - Soil

Project: 24/3980 - Thorney Lane

Client: Concept Engineering Consultants		Chemtest Job No.:										
Quotation No.: Q24-34527		Chemtest Sample ID.:		1845367	1845368	1845369	1845371	1845372	1845373	1845374	1845375	
		Client Sample ID.:		35	36	37	39	40	41	42	43	
		Sample Location:		BH24-01	BH24-01	DS24-04	DS24-05	DS24-05	DS24-08	DS24-08	DS24-02	
		Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
		Top Depth (m):		0.40	1.20	1.20	1.30	3.20	0.30	1.10	0.30	
		Date Sampled:		31-Jul-2024	31-Jul-2024	31-Jul-2024	01-Aug-2024	01-Aug-2024	01-Aug-2024	01-Aug-2024	01-Aug-2024	
		Asbestos Lab:		NEW-ASB					NEW-ASB	NEW-ASB	NEW-ASB	
Determinand	HWOL Code	Accred.	SOP	Units	LOD							
Fluoranthene		M	2790	mg/kg	0.50						< 0.50	
Pyrene		M	2790	mg/kg	0.50						< 0.50	
Butylbenzyl Phthalate		N	2790	mg/kg	0.50						< 0.50	
Benzo[a]anthracene		M	2790	mg/kg	0.50						< 0.50	
Chrysene		M	2790	mg/kg	0.50						< 0.50	
Bis(2-Ethylhexyl)Phthalate		N	2790	mg/kg	0.50						< 0.50	
Di-N-Octyl Phthalate		N	2790	mg/kg	0.50						< 0.50	
Benzo[b]fluoranthene		M	2790	mg/kg	0.50						< 0.50	
Benzo[k]fluoranthene		M	2790	mg/kg	0.50						< 0.50	
Benzo[a]pyrene		M	2790	mg/kg	0.50						< 0.50	
Indeno(1,2,3-c,d)Pyrene		N	2790	mg/kg	0.50						< 0.50	
Dibenz(a,h)Anthracene		N	2790	mg/kg	0.50						< 0.50	
Benzo[g,h,i]perylene		M	2790	mg/kg	0.50						< 0.50	
Naphthalene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10		< 0.10
Acenaphthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10		< 0.10
Fluorene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10		< 0.10
Phenanthrene		M	2800	mg/kg	0.10	0.30	< 0.10	< 0.10	< 0.10	< 0.10		< 0.10
Anthracene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10		< 0.10
Fluoranthene		M	2800	mg/kg	0.10	0.83	< 0.10	< 0.10	< 0.10	< 0.10	0.12	< 0.10
Pyrene		M	2800	mg/kg	0.10	1.3	< 0.10	< 0.10	< 0.10	< 0.10	0.12	< 0.10
Benzo[a]anthracene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10		< 0.10
Chrysene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10		< 0.10
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10		< 0.10
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10		< 0.10
Benzo[a]pyrene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10		< 0.10
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10		< 0.10
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10		< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10		< 0.10
Total Of 16 PAH's		N	2800	mg/kg	2.0	2.4	< 2.0	< 2.0	< 2.0	< 2.0		< 2.0
PCB 81		N	2815	mg/kg	0.010							< 0.010
PCB 77		U	2815	mg/kg	0.010							< 0.010
PCB 105		N	2815	mg/kg	0.010							< 0.010
PCB 114		N	2815	mg/kg	0.010							< 0.010
PCB 118		N	2815	mg/kg	0.010							< 0.010
PCB 123		N	2815	mg/kg	0.010							< 0.010
PCB 126		N	2815	mg/kg	0.010							< 0.010
PCB 156		N	2815	mg/kg	0.010							< 0.010
PCB 157		N	2815	mg/kg	0.010							< 0.010
PCB 167		N	2815	mg/kg	0.010							< 0.010
PCB 169		N	2815	mg/kg	0.010							< 0.010

Results - Soil

Project: 24/3980 - Thorney Lane

Client: Concept Engineering Consultants		Chemtest Job No.:						24-24795	24-24795	24-24795	24-24795	24-24795	24-24795	24-24795	
Quotation No.: Q24-34527		Chemtest Sample ID.:						1845367	1845368	1845369	1845371	1845372	1845373	1845374	1845375
		Client Sample ID.:						35	36	37	39	40	41	42	43
		Sample Location:						BH24-01	BH24-01	DS24-04	DS24-05	DS24-05	DS24-08	DS24-08	DS24-02
		Sample Type:						SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):						0.40	1.20	1.20	1.30	3.20	0.30	1.10	0.30
		Date Sampled:						31-Jul-2024	31-Jul-2024	31-Jul-2024	01-Aug-2024	01-Aug-2024	01-Aug-2024	01-Aug-2024	01-Aug-2024
		Asbestos Lab:						NEW-ASB					NEW-ASB	NEW-ASB	NEW-ASB
Determinand	HWOL Code	Accred.	SOP	Units	LOD										
PCB 189		N	2815	mg/kg	0.010								< 0.010		
Total PCBs (12 Congeners)		N	2815	mg/kg	0.12								< 0.12		
Total Phenols		M	2920	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	
PFAS Suite Soils		SN		µg/kg	0.0							See Attached	See Attached	See Attached	

Results - Soil

Project: 24/3980 - Thorney Lane

Client: Concept Engineering Consultants		Chemtest Job No.:										
Quotation No.: Q24-34527		Chemtest Sample ID.:										
		Client Sample ID.:										
		Sample Location:										
		Sample Type:										
		Top Depth (m):										
		Date Sampled:										
		Asbestos Lab:										
Determinand	HWOL Code	Accred.	SOP	Units	LOD	24-24795	24-24795	24-24795	24-24795	24-24795	24-24795	24-24795
ACM Type		U	2192		N/A	-	-	-				-
Asbestos Identification		U	2192		N/A	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected				No Asbestos Detected
Moisture		N	2030	%	0.020	1.8	15	5.3	13	18	7.1	12
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones	Stones	Stones	Stones	None	Stones	Stones
Soil Texture		N	2040		N/A	Sand	Clay	Sand	Clay	Clay	Sand	Sand
pH at 20C		M	2010		4.0	9.1	8.1	8.2	8.6	8.6	8.3	8.9
Boron (Hot Water Soluble)		M	2120	mg/kg	0.40	< 0.40	1.1	< 0.40	0.99	1.4	0.48	0.75
Cyanide (Complex)		M	2300	mg/kg	0.50		< 0.50				< 0.50	
Cyanide (Free)		M	2300	mg/kg	0.50		< 0.50				< 0.50	
Cyanide (Total)		M	2300	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Thiocyanate		M	2300	mg/kg	5.0		< 5.0				< 5.0	
Arsenic		M	2455	mg/kg	0.5	110	15	9.6	12	13	2.6	9.7
Beryllium		U	2455	mg/kg	0.5	0.8	0.9	< 0.5	0.5	0.5	< 0.5	< 0.5
Cadmium		M	2455	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chromium		M	2455	mg/kg	0.5	22	30	22	20	23	19	21
Antimony		N	2455	mg/kg	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Copper		M	2455	mg/kg	0.50	11	44	12	24	32	34	29
Mercury		M	2455	mg/kg	0.05	< 0.05	0.27	0.09	0.08	< 0.05	< 0.05	0.19
Nickel		M	2455	mg/kg	0.50	26	32	16	24	43	7.4	19
Lead		M	2455	mg/kg	0.50	11	95	25	33	20	28	74
Selenium		M	2455	mg/kg	0.25	0.53	0.94	0.38	0.84	2.0	< 0.25	< 0.25
Vanadium		U	2455	mg/kg	0.5	42	46	24	43	47	14	32
Zinc		M	2455	mg/kg	0.50	34	82	34	59	84	120	72
Chromium (Hexavalent)		N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	0.20	0.44		< 0.05	< 0.05	< 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	< 0.25	< 0.25	0.44		< 0.25	< 0.25	< 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	< 2.0	160	7.4		2.6	< 2.0	< 2.0
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	< 1.0	270	20		4.6	37	18
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	< 2.0	160	15		3.7	100	56
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	< 3.0	390	4.6		3.9	150	13
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	< 10	74	< 10		< 10	40	< 10
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	< 5.0	970	47		15	290	89
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	< 10	1000	47		15	330	89
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05		< 0.05	< 0.05	< 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05		< 0.05	< 0.05	< 0.05

Results - Soil

Project: 24/3980 - Thorney Lane

Client: Concept Engineering Consultants		Chemtest Job No.:										
Quotation No.: Q24-34527		Chemtest Sample ID.:										
		Client Sample ID.:										
		Sample Location:										
		Sample Type:										
		Top Depth (m):										
		Date Sampled:										
		Asbestos Lab:										
Determinand	HWOL Code	Accred.	SOP	Units	LOD	24-24795	24-24795	24-24795	24-24795	24-24795	24-24795	24-24795
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05		< 0.05	< 0.05	< 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25		< 0.25	< 0.25	< 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	59	< 1.0		< 1.0	< 1.0	< 1.0
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	130	6.5		< 1.0	11	3.5
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	4.8	140	12		6.3	15	13
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	< 2.0	16	< 2.0		< 2.0	4.8	6.8
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	< 1.0	12	< 1.0		1.3	1.3	2.4
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	5.1	340	19		6.8	30	24
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	< 10	350	19		< 10	32	26
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	< 10	1300	67		21	320	110
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	< 10	1400	67		23	360	110
Total Organic Carbon		M	2625	%	0.20	< 0.20	0.74	< 0.20	< 0.20	0.44	0.48	0.62
Dichlorodifluoromethane		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0		< 1.0		
Chloromethane		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0		< 1.0		
Vinyl Chloride		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0		< 1.0		
Bromomethane		M	2760	µg/kg	20	< 20	< 20	< 20		< 20		
Chloroethane		U	2760	µg/kg	2.0	< 2.0	< 2.0	< 2.0		< 2.0		
Trichlorofluoromethane		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0		< 1.0		
1,1-Dichloroethene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0		< 1.0		
Dichloromethane		N	2760	µg/kg	50	< 50	< 50	< 50		< 50		
Trans 1,2-Dichloroethene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0		< 1.0		
1,1-Dichloroethane		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0		< 1.0		
cis 1,2-Dichloroethene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0		< 1.0		
Bromochloromethane		U	2760	µg/kg	5.0	< 5.0	< 5.0	< 5.0		< 5.0		
Trichloromethane		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0		< 1.0		
1,1,1-Trichloroethane		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0		< 1.0		
Tetrachloromethane		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0		< 1.0		
1,1-Dichloropropene		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0		< 1.0		
Benzene		M	2760	mg/kg	0.0010				< 0.0010		< 0.0010	< 0.0010
Benzene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0		< 1.0		
1,2-Dichloroethane		M	2760	µg/kg	2.0	< 2.0	< 2.0	< 2.0		< 2.0		
Trichloroethene		N	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0		< 1.0		
1,2-Dichloropropane		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0		< 1.0		
Dibromomethane		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0		< 1.0		
Bromodichloromethane		M	2760	µg/kg	5.0	< 5.0	< 5.0	< 5.0		< 5.0		
cis-1,3-Dichloropropene		N	2760	µg/kg	10	< 10	< 10	< 10		< 10		
Toluene		M	2760	mg/kg	0.0010				< 0.0010		< 0.0010	< 0.0010
Toluene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0		< 1.0		
Trans-1,3-Dichloropropene		N	2760	µg/kg	10	< 10	< 10	< 10		< 10		
1,1,2-Trichloroethane		M	2760	µg/kg	10	< 10	< 10	< 10		< 10		

Results - Soil

Project: 24/3980 - Thorney Lane

Client: Concept Engineering Consultants		Chemtest Job No.:		24-24795	24-24795	24-24795	24-24795	24-24795	24-24795	24-24795
Quotation No.: Q24-34527		Chemtest Sample ID.:		1845376	1845377	1845378	1845379	1845380	1845382	1845384
		Client Sample ID.:		44	45	46	47	48		
		Sample Location:		DS24-02	DS24-07	DS24-07	DS24-07	DS24-07	BH24-07	DS24-05
		Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):		1.10	0.30	0.70	1.10	2.40	0.40	0.90
		Date Sampled:		01-Aug-2024	01-Aug-2024	01-Aug-2024	01-Aug-2024	01-Aug-2024	31-Jul-2024	31-Jul-2024
		Asbestos Lab:		NEW-ASB	NEW-ASB	NEW-ASB				NEW-ASB
Determinand	HWOL Code	Accred.	SOP	Units	LOD					
Tetrachloroethene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	
1,3-Dichloropropane		U	2760	µg/kg	2.0	< 2.0	< 2.0	< 2.0	< 2.0	
Dibromochloromethane		U	2760	µg/kg	10	< 10	< 10	< 10	< 10	
1,2-Dibromoethane		M	2760	µg/kg	5.0	< 5.0	< 5.0	< 5.0	< 5.0	
Chlorobenzene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	
1,1,1,2-Tetrachloroethane		M	2760	µg/kg	2.0	< 2.0	< 2.0	< 2.0	< 2.0	
Ethylbenzene		M	2760	mg/kg	0.0010			< 0.0010	< 0.0010	< 0.0010
Ethylbenzene		M	2760	µg/kg	1.0	< 1.0	2.8	< 1.0	< 1.0	
m & p-Xylene		M	2760	mg/kg	0.0010			< 0.0010	< 0.0010	< 0.0010
m & p-Xylene		M	2760	µg/kg	1.0	< 1.0	5.3	< 1.0	< 1.0	
o-Xylene		M	2760	mg/kg	0.0010			< 0.0010	< 0.0010	< 0.0010
o-Xylene		M	2760	µg/kg	1.0	< 1.0	6.8	< 1.0	< 1.0	
Styrene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Tribromomethane		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Isopropylbenzene		M	2760	µg/kg	1.0	< 1.0	8.2	< 1.0	< 1.0	
Bromobenzene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	
1,2,3-Trichloropropane		N	2760	µg/kg	50	< 50	< 50	< 50	< 50	
N-Propylbenzene		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	
2-Chlorotoluene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	
1,3,5-Trimethylbenzene		M	2760	µg/kg	1.0	< 1.0	6.4	< 1.0	< 1.0	
4-Chlorotoluene		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Tert-Butylbenzene		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	
1,2,4-Trimethylbenzene		M	2760	µg/kg	1.0	< 1.0	59	< 1.0	< 1.0	
Sec-Butylbenzene		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	
1,3-Dichlorobenzene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	
4-Isopropyltoluene		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	
1,4-Dichlorobenzene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	
N-Butylbenzene		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	
1,2-Dichlorobenzene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	
1,2-Dibromo-3-Chloropropane		U	2760	µg/kg	50	< 50	< 50	< 50	< 50	
1,2,4-Trichlorobenzene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Hexachlorobutadiene		N	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	
1,2,3-Trichlorobenzene		U	2760	µg/kg	2.0	< 2.0	< 2.0	< 2.0	< 2.0	
Methyl Tert-Butyl Ether		M	2760	mg/kg	0.0010			< 0.0010	< 0.0010	< 0.0010
Methyl Tert-Butyl Ether		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	
N-Nitrosodimethylamine		M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	
Phenol		M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	
2-Chlorophenol		N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	
Bis-(2-Chloroethyl)Ether		M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	
1,3-Dichlorobenzene		M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	
1,4-Dichlorobenzene		N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	

Results - Soil

Project: 24/3980 - Thorney Lane

Client: Concept Engineering Consultants		Chemtest Job No.:		24-24795	24-24795	24-24795	24-24795	24-24795	24-24795	24-24795
Quotation No.: Q24-34527		Chemtest Sample ID.:		1845376	1845377	1845378	1845379	1845380	1845382	1845384
		Client Sample ID.:		44	45	46	47	48		
		Sample Location:		DS24-02	DS24-07	DS24-07	DS24-07	DS24-07	BH24-07	DS24-05
		Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):		1.10	0.30	0.70	1.10	2.40	0.40	0.90
		Date Sampled:		01-Aug-2024	01-Aug-2024	01-Aug-2024	01-Aug-2024	01-Aug-2024	31-Jul-2024	31-Jul-2024
		Asbestos Lab:		NEW-ASB	NEW-ASB	NEW-ASB				NEW-ASB
Determinand	HWOL Code	Accred.	SOP	Units	LOD					
1,2-Dichlorobenzene		M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	
2-Methylphenol		M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	
Bis(2-Chloroisopropyl)Ether		M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	
Hexachloroethane		N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	
N-Nitrosodi-n-propylamine		M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	
4-Methylphenol		M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	
Nitrobenzene		N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	
Isophorone		M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	
2-Nitrophenol		N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	
2,4-Dimethylphenol		N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	
Bis(2-Chloroethoxy)Methane		M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	
2,4-Dichlorophenol		N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	
1,2,4-Trichlorobenzene		M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	
Naphthalene		M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	
4-Chloroaniline		N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	
Hexachlorobutadiene		M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	
4-Chloro-3-Methylphenol		N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	
2-Methylnaphthalene		M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	
4-Nitrophenol		N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	
2,4,6-Trichlorophenol		N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	
2,4,5-Trichlorophenol		N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	
2-Chloronaphthalene		M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	
2-Nitroaniline		N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	
Acenaphthylene		M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	
Dimethylphthalate		M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	
2,6-Dinitrotoluene		N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	
Acenaphthene		M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	
3-Nitroaniline		N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	
Dibenzofuran		M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	
4-Chlorophenylphenylether		M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	
2,4-Dinitrotoluene		N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	
Fluorene		M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	
Diethyl Phthalate		M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	
4-Nitroaniline		N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	
Azobenzene		M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	
4-Bromophenylphenyl Ether		M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	
Hexachlorobenzene		M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	
Phenanthrene		M	2790	mg/kg	0.50	< 0.50	0.90	< 0.50	< 0.50	
Anthracene		M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	
Carbazole		M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	
Di-N-Butyl Phthalate		N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	

Results - Soil

Project: 24/3980 - Thorney Lane

Client: Concept Engineering Consultants		Chemtest Job No.:		24-24795	24-24795	24-24795	24-24795	24-24795	24-24795	24-24795	24-24795
Quotation No.: Q24-34527		Chemtest Sample ID.:		1845376	1845377	1845378	1845379	1845380	1845382	1845384	
		Client Sample ID.:		44	45	46	47	48			
		Sample Location:		DS24-02	DS24-07	DS24-07	DS24-07	DS24-07	BH24-07	DS24-05	
		Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
		Top Depth (m):		1.10	0.30	0.70	1.10	2.40	0.40	0.90	
		Date Sampled:		01-Aug-2024	01-Aug-2024	01-Aug-2024	01-Aug-2024	01-Aug-2024	31-Jul-2024	31-Jul-2024	
		Asbestos Lab:		NEW-ASB	NEW-ASB	NEW-ASB					NEW-ASB
Determinand	HWOL Code	Accred.	SOP	Units	LOD						
Fluoranthene		M	2790	mg/kg	0.50	< 0.50	1.2	< 0.50		< 0.50	
Pyrene		M	2790	mg/kg	0.50	< 0.50	1.2	< 0.50		< 0.50	
Butylbenzyl Phthalate		N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50		< 0.50	
Benzo[a]anthracene		M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50		< 0.50	
Chrysene		M	2790	mg/kg	0.50	< 0.50	0.61	< 0.50		< 0.50	
Bis(2-Ethylhexyl)Phthalate		N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50		< 0.50	
Di-N-Octyl Phthalate		N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50		< 0.50	
Benzo[b]fluoranthene		M	2790	mg/kg	0.50	< 0.50	0.85	< 0.50		< 0.50	
Benzo[k]fluoranthene		M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50		< 0.50	
Benzo[a]pyrene		M	2790	mg/kg	0.50	< 0.50	0.70	< 0.50		< 0.50	
Indeno(1,2,3-c,d)Pyrene		N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50		< 0.50	
Dibenz(a,h)Anthracene		N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50		< 0.50	
Benzo[g,h,i]perylene		M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50		< 0.50	
Naphthalene		M	2800	mg/kg	0.10			< 0.10		< 0.10	< 0.10
Acenaphthylene		N	2800	mg/kg	0.10			< 0.10		< 0.10	< 0.10
Acenaphthene		M	2800	mg/kg	0.10			< 0.10		< 0.10	< 0.10
Fluorene		M	2800	mg/kg	0.10			< 0.10		< 0.10	< 0.10
Phenanthrene		M	2800	mg/kg	0.10			< 0.10		0.33	0.93
Anthracene		M	2800	mg/kg	0.10			< 0.10		< 0.10	0.23
Fluoranthene		M	2800	mg/kg	0.10			< 0.10		0.73	1.4
Pyrene		M	2800	mg/kg	0.10			< 0.10		0.67	1.1
Benzo[a]anthracene		M	2800	mg/kg	0.10			< 0.10		< 0.10	< 0.10
Chrysene		M	2800	mg/kg	0.10			< 0.10		< 0.10	< 0.10
Benzo[b]fluoranthene		M	2800	mg/kg	0.10			< 0.10		< 0.10	< 0.10
Benzo[k]fluoranthene		M	2800	mg/kg	0.10			< 0.10		< 0.10	< 0.10
Benzo[a]pyrene		M	2800	mg/kg	0.10			< 0.10		< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10			< 0.10		< 0.10	< 0.10
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10			< 0.10		< 0.10	< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10			< 0.10		< 0.10	< 0.10
Total Of 16 PAH's		N	2800	mg/kg	2.0			< 2.0		< 2.0	3.7
PCB 81		N	2815	mg/kg	0.010		< 0.010			< 0.010	
PCB 77		U	2815	mg/kg	0.010		< 0.010			< 0.010	
PCB 105		N	2815	mg/kg	0.010		< 0.010			< 0.010	
PCB 114		N	2815	mg/kg	0.010		< 0.010			< 0.010	
PCB 118		N	2815	mg/kg	0.010		< 0.010			< 0.010	
PCB 123		N	2815	mg/kg	0.010		< 0.010			< 0.010	
PCB 126		N	2815	mg/kg	0.010		< 0.010			< 0.010	
PCB 156		N	2815	mg/kg	0.010		< 0.010			< 0.010	
PCB 157		N	2815	mg/kg	0.010		< 0.010			< 0.010	
PCB 167		N	2815	mg/kg	0.010		< 0.010			< 0.010	
PCB 169		N	2815	mg/kg	0.010		< 0.010			< 0.010	

Results - Soil

Project: 24/3980 - Thorney Lane

Client: Concept Engineering Consultants		Chemtest Job No.:		24-24795	24-24795	24-24795	24-24795	24-24795	24-24795	24-24795	24-24795
Quotation No.: Q24-34527		Chemtest Sample ID.:		1845376	1845377	1845378	1845379	1845380	1845382	1845384	
		Client Sample ID.:		44	45	46	47	48			
		Sample Location:		DS24-02	DS24-07	DS24-07	DS24-07	DS24-07	BH24-07	DS24-05	
		Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
		Top Depth (m):		1.10	0.30	0.70	1.10	2.40	0.40	0.90	
		Date Sampled:		01-Aug-2024	01-Aug-2024	01-Aug-2024	01-Aug-2024	01-Aug-2024	31-Jul-2024	31-Jul-2024	
		Asbestos Lab:		NEW-ASB	NEW-ASB	NEW-ASB				NEW-ASB	
Determinand	HWOL Code	Accred.	SOP	Units	LOD						
PCB 189		N	2815	mg/kg	0.010		< 0.010			< 0.010	
Total PCBs (12 Congeners)		N	2815	mg/kg	0.12		< 0.12			< 0.12	
Total Phenols		M	2920	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
PFAS Suite Soils		SN		µg/kg	0.0	See Attached	See Attached	See Attached	See Attached	See Attached	

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
1020	Electrical Conductivity and Total Dissolved Solids (TDS) in Waters	Electrical Conductivity at 25°C and Total Dissolved Solids (TDS) in Waters	Conductivity Meter	
1220	Anions, Alkalinity & Ammonium in Waters	Fluoride; Chloride; Nitrite; Nitrate; Total; Oxidisable Nitrogen (TON); Sulfate; Phosphate; Alkalinity; Ammonium	Automated colorimetric analysis using 'Aquakem 600' Discrete Analyser.	
1455	Metals in Waters by ICP-MS	Metals, including: Antimony; Arsenic; Barium; Beryllium; Boron; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Tin; Vanadium; Zinc	Filtration of samples followed by direct determination by inductively coupled plasma mass spectrometry (ICP-MS).	
1610	Total/Dissolved Organic Carbon in Waters	Organic Carbon	TOC Analyser using Catalytic Oxidation	
1920	Phenols in Waters by HPLC	Phenolic compounds including: Phenol, Cresols, Xylenols, Trimethylphenols Note: Chlorophenols are excluded.	Determination by High Performance Liquid Chromatography (HPLC) using electrochemical detection.	
2010	pH Value of Soils	pH at 20°C	pH Meter	
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <30°C.	
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930	
2120	Water Soluble Boron, Sulphate, Magnesium & Chromium	Boron; Sulphate; Magnesium; Chromium	Aqueous extraction / ICP-OES	
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry	
2300	Cyanides & Thiocyanate in Soils	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Alkaline extraction followed by colorimetric determination using Automated Flow Injection Analyser.	
2455	Acid Soluble Metals in Soils	Metals, including: Arsenic; Barium; Beryllium; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Vanadium; Zinc	Acid digestion followed by determination of metals in extract by ICP-MS.	
2490	Hexavalent Chromium in Soils	Chromium [VI]	Soil extracts are prepared by extracting dried and ground soil samples into boiling water. Chromium [VI] is determined by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazine.	
2625	Total Organic Carbon in Soils	Total organic Carbon (TOC)	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.	
2690	EPH A/A Split	Aliphatics: >C10–C12, >C12–C16, >C16–C21, >C21– C35, >C35– C40 Aromatics: >C10–C12, >C12–C16, >C16–C21, >C21– C35, >C35– C40	Acetone/Heptane extraction / GCxGC FID detection	
2760	Volatile Organic Compounds (VOCs) in Soils by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics.(cf. USEPA Method 8260)*please refer to UKAS schedule	Automated headspace gas chromatographic (GC) analysis of a soil sample, as received, with mass spectrometric (MS) detection of volatile organic compounds.	
2780	VPH A/A Split	Aliphatics: >C5–C6, >C6–C7,>C7–C8,>C8–C10 Aromatics: >C5–C7,>C7–C8,>C8–C10	Water extraction / Headspace GCxGC FID detection	
2790	Semi-Volatile Organic Compounds (SVOCs) in Soils by GC-MS	Semi-volatile organic compounds(cf. USEPA Method 8270)	Acetone/Hexane extraction / GC-MS	
2800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-MS	Acenaphthene*; Acenaphthylene; Anthracene*; Benzo[a]Anthracene*; Benzo[a]Pyrene*; Benzo[b]Fluoranthene*; Benzo[ghi]Perylene*; Benzo[k]Fluoranthene; Chrysene*; Dibenz[ah]Anthracene; Fluoranthene*; Fluorene*; Indeno[123cd]Pyrene*; Naphthalene*; Phenanthrene*; Pyrene*	Dichloromethane extraction / GC-MS	
2810	Polychlorinated Biphenyls (PCB) as Aroclors in Soils by GC-ECD	Polychlorinated Biphenyls expressed as an Aroclor (normally reported as *Aroclor 1242)	Extraction of a soil sample, as received, into hexane/acetone (50:50) followed by gas chromatography (GC) using mass spectrometric (MS) detection for identification of polychlorinated biphenyls and electron capture detection (ECD) for quantitation if present.	
2815	Polychlorinated Biphenyls (PCB) ICES7Congeners in Soils by GC-MS	ICES7 PCB congeners	Acetone/Hexane extraction / GC-MS. Reported PCB 101 results may contain contributions from PCB 90 due to inseparable chromatography.	

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
2920	Phenols in Soils by HPLC	Phenolic compounds including Resorcinol, Phenol, Methylphenols, Dimethylphenols, 1-Naphthol and Trimethylphenols Note: chlorophenols are excluded.	60:40 methanol/water mixture extraction, followed by HPLC determination using electrochemical detection.	
640	Characterisation of Waste (Leaching C10)	Waste material including soil, sludges and granular waste	Compliance Test for Leaching of Granular Waste Material and Sludge	

Report Information

Key

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

This report shall not be reproduced except in full, and only with the prior approval of the laboratory.

Any comments or interpretations are outside the scope of UKAS accreditation.

The Laboratory is not accredited for any sampling activities and reported results relate to the samples 'as received' at the laboratory.

Uncertainty of measurement for the determinands tested are available upon request .

None of the results in this report have been recovery corrected.

All results are expressed on a dry weight basis.

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

For all other tests the samples were dried at $\leq 30^{\circ}\text{C}$ prior to analysis.

All Asbestos testing is performed at the indicated laboratory .

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

Sample Deviation Codes

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

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt.

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

Charges may apply to extended sample storage.

Water Sample Category Key for Accreditation

- DW - Drinking Water
- GW - Ground Water
- LE - Land Leachate

Report Information

NA - Not Applicable
PL - Prepared Leachate
PW - Processed Water
RE - Recreational Water
SA - Saline Water
SW - Surface Water
TE - Treated Effluent
TS - Treated Sewage
UL - Unspecified Liquid

Clean Up Codes

NC - No Clean Up
MC - Mathematical Clean Up
FC - Florisil Clean Up

HWOL Acronym System

HS - Headspace analysis
EH - Extractable hydrocarbons – i.e. everything extracted by the solvent
CU - Clean-up – e.g. by Florisil, silica gel
1D - GC – Single coil gas chromatography
Total - Aliphatics & Aromatics
AL - Aliphatics only
AR - Aromatic only
2D - GC-GC – Double coil gas chromatography
#1 - EH_2D_Total but with humics mathematically subtracted
#2 - EH_2D_Total but with fatty acids mathematically subtracted
+ - Operator to indicate cumulative e.g. EH+EH_Total or EH_CU+HS_Total

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

CERTIFICATE

Project code : 1782970
Your Project Description : 24-24795
Client : Eurofins Chemtest Ltd

Your Sample identification

8372294 = 1845373 DS24-08 0.30

8372295 = 1845374 DS24-08 1.10

8372296 = 1845375 DS24-02 0.30

Client sampling date	:	31/07/2024	31/07/2024	31/07/2024
Date of receipt	:	07/08/2024	07/08/2024	07/08/2024
Startdate	:	07/08/2024	07/08/2024	07/08/2024
Reference number	:	8372294	8372295	8372296
Your Matrix	:	Soil	Soil	Soil

Sample preparation

S AS3000 (steekmonster)		done	done	done
cryogenic grinding		grinded	grinded	
S sample preparation		done	done	done

General analysis - physics

S dry weight	%	90,5	93,7	97,0
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- The frontpage and, where applicable, appendices of this document are integral parts of this certificate.

- Analyses marked with a 'Q' are part of the RvA accreditation certificate L086.

- Analyses marked with a 'S' are part of the AS 3000 accreditation certificate.

Verificationcode: LSOH-QJSE-MLHP-LNIZ

CERTIFICATE

Project code : 1782970
Your Project Description : 24-24795
Client : Eurofins Chemtest Ltd

Your Sample identification

8372294 = 1845373 DS24-08 0.30
8372295 = 1845374 DS24-08 1.10
8372296 = 1845375 DS24-02 0.30

Client sampling date	:	31/07/2024	31/07/2024	31/07/2024
Date of receipt	:	07/08/2024	07/08/2024	07/08/2024
Startdate	:	07/08/2024	07/08/2024	07/08/2024
Reference number	:	8372294	8372295	8372296
Your Matrix	:	Soil	Soil	Soil

Organic compounds - per- and polyfluoroalkylsubstances (PFAS) HPLC-MS/MS
Perfluorinated carboxylic acids:

Q PFBA	µg/kg dw	< 0,1	< 0,1	< 0,1
Q PFPeA	µg/kg dw	< 0,1	< 0,1	< 0,1
Q PFHxA	µg/kg dw	< 0,1	< 0,1	< 0,1
Q PFHpA	µg/kg dw	< 0,1	< 0,1	< 0,1
Q PFOA linear	µg/kg dw	< 0,1	< 0,1	< 0,1
Q PFOA branched	µg/kg dw	< 0,1	< 0,1	< 0,1
Q PFNA	µg/kg dw	< 0,1	< 0,1	< 0,1
Q PFDA	µg/kg dw	< 0,1	< 0,1	< 0,1
Q PFUnDA	µg/kg dw	< 0,1	< 0,1	< 0,1
Q PFDoDA	µg/kg dw	< 0,1	< 0,1	< 0,1
Q PFTTrDA	µg/kg dw	< 0,1	< 0,1	< 0,1
Q PFTeDA	µg/kg dw	< 0,1	< 0,1	< 0,1
Q PFHxDA	µg/kg dw	< 0,1	< 0,1	< 0,1
Q PFODA	µg/kg dw	< 0,1	< 0,1	< 0,1

Perfluorinated sulfonic acids:

Q PFBS	µg/kg dw	< 0,1	< 0,1	< 0,1
Q PFPeS	µg/kg dw	< 0,1	< 0,1	< 0,1
Q PFHxS	µg/kg dw	< 0,1	< 0,1	< 0,1
Q PFHpS	µg/kg dw	< 0,1	< 0,1	< 0,1
Q PFOS linear	µg/kg dw	< 0,1	< 0,1	< 0,1
Q PFOS branched	µg/kg dw	< 0,1	< 0,1	< 0,1
Q PFDS	µg/kg dw	< 0,1	< 0,1	< 0,1

Perfluorinated alkyl substances - precursors:

Q 4:2 FTS	µg/kg dw	< 0,1	< 0,1	< 0,1
Q 6:2 FTS	µg/kg dw	< 0,1	< 0,1	< 0,1
Q 8:2 FTS	µg/kg dw	< 0,1	< 0,1	< 0,1
Q 10:2 FTS	µg/kg dw	< 0,1	< 0,1	< 0,1
Q PFOSA	µg/kg dw	< 0,1	< 0,1	< 0,1

Perfluorinated alkyl substances - remainder:

HPFHpA	µg/kg dw	< 0,4	< 0,4	< 0,4
4H-PFUnDA	µg/kg dw	< 0,4	< 0,4	< 0,4
8:2 FTUCA	µg/kg dw	< 0,4	< 0,4	< 0,4
Q 9Cl-PF3ONS (F53-B)	µg/kg dw	< 0,1	< 0,1	< 0,1
Q ADONA	µg/kg dw	< 0,1	< 0,1	< 0,1
Q EtFOSA	µg/kg dw	< 0,1	< 0,1	< 0,1
Q EtFOSAA	µg/kg dw	< 0,1	< 0,1	< 0,1
MeFBSA	µg/kg dw	< 0,4	< 0,4	< 0,4
Q MeFOSAA	µg/kg dw	< 0,1	< 0,1	< 0,1
Q P37DMOA	µg/kg dw	< 1	< 1	< 1
Q PFBSA	µg/kg dw	< 0,1	< 0,1	< 0,1
Q MeFOSA	µg/kg dw	< 0,1	< 0,1	< 0,1
Q MeFBSAA	µg/kg dw	< 0,1	< 0,1	< 0,1
Q 8:2 DiPAP	µg/kg dw	< 0,1	< 0,1	< 0,1
sum PFOA	µg/kg dw	0,1	0,1	0,1
sum PFOS	µg/kg dw	0,1	0,1	0,1

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- Analyses marked with a 'Q' are part of the RvA accreditation certificate L086.

- Analyses marked with a 'S' are part of the AS 3000 accreditation certificate.

Verificationcode: LSOH-QJSE-MLHP-LNIZ

Ref.: 1782970_certificaat_v1

CERTIFICATE

Project code : 1782970
 Your Project Description : 24-24795
 Client : Eurofins Chemtest Ltd

Your Sample identification
 8372297 = 1845376 DS24-02 1.10
 8380714 = 1845377 DS24-07 0.30
 8380715 = 1845378 DS24-07 0.70

Client sampling date	:	31/07/2024	31/07/2024	31/07/2024
Date of receipt	:	07/08/2024	07/08/2024	07/08/2024
Startdate	:	07/08/2024	14/08/2024	14/08/2024
Reference number	:	8372297	8380714	8380715
Your Matrix	:	Soil	Soil	Soil

Sample preparation				
S AS3000 (steekmonster)		done	done	done
cryogenic grinding		grinded	grinded	grinded
S sample preparation		done	done	done

General analysis - physics				
S dry weight	%	97,6	85,7	93,7

- The frontpage and, where applicable, appendices of this document are integral parts of this certificate.
 - Analyses marked with a 'Q' are part of the RvA accreditation certificate L086.
 - Analyses marked with a 'S' are part of the AS 3000 accreditation certificate.
 Verificationcode: LSOH-QJSE-MLHP-LNIZ

CERTIFICATE

Project code : 1782970
Your Project Description : 24-24795
Client : Eurofins Chemtest Ltd

Your Sample identification

8372297 = 1845376 DS24-02 1.10
8380714 = 1845377 DS24-07 0.30
8380715 = 1845378 DS24-07 0.70

Client sampling date	:	31/07/2024	31/07/2024	31/07/2024
Date of receipt	:	07/08/2024	07/08/2024	07/08/2024
Startdate	:	07/08/2024	14/08/2024	14/08/2024
Reference number	:	8372297	8380714	8380715
Your Matrix	:	Soil	Soil	Soil

Organic compounds - per- and polyfluoroalkylsubstances (PFAS) HPLC-MS/MS
Perfluorinated carboxylic acids:

Q PFBA	µg/kg dw	< 0,1	< 0,1	< 0,1
Q PFPeA	µg/kg dw	< 0,1	< 0,1	< 0,1
Q PFHxA	µg/kg dw	< 0,1	< 0,1	< 0,1
Q PFHpA	µg/kg dw	< 0,1	< 0,1	< 0,1
Q PFOA linear	µg/kg dw	< 0,1	< 0,1	< 0,1
Q PFOA branched	µg/kg dw	< 0,1	< 0,1	< 0,1
Q PFNA	µg/kg dw	< 0,1	< 0,1	< 0,1
Q PFDA	µg/kg dw	< 0,1	< 0,1	< 0,1
Q PFUnDA	µg/kg dw	< 0,1	< 0,1	< 0,1
Q PFDoDA	µg/kg dw	< 0,1	< 0,1	< 0,1
Q PFTTrDA	µg/kg dw	< 0,1	< 0,1	< 0,1
Q PFTeDA	µg/kg dw	< 0,1	< 0,1	< 0,1
Q PFHxDA	µg/kg dw	< 0,1	< 0,1	< 0,1
Q PFODA	µg/kg dw	< 0,1	< 0,1	< 0,1

Perfluorinated sulfonic acids:

Q PFBS	µg/kg dw	< 0,1	< 0,1	< 0,1
Q PFPeS	µg/kg dw	< 0,1	< 0,1	< 0,1
Q PFHxS	µg/kg dw	< 0,1	< 0,1	< 0,1
Q PFHpS	µg/kg dw	< 0,1	< 0,1	< 0,1
Q PFOS linear	µg/kg dw	< 0,1	< 0,1	< 0,1
Q PFOS branched	µg/kg dw	< 0,1	< 0,1	< 0,1
Q PFDS	µg/kg dw	< 0,1	< 0,1	< 0,1

Perfluorinated alkyl substances - precursors:

Q 4:2 FTS	µg/kg dw	< 0,1	< 0,1	< 0,1
Q 6:2 FTS	µg/kg dw	< 0,1	< 0,1	< 0,1
Q 8:2 FTS	µg/kg dw	< 0,1	< 0,1	< 0,1
Q 10:2 FTS	µg/kg dw	< 0,1	< 0,1	< 0,1
Q PFOSA	µg/kg dw	< 0,1	< 0,1	< 0,1

Perfluorinated alkyl substances - remainder:

HPFHpA	µg/kg dw	< 0,4	< 0,4	< 0,4
4H-PFUnDA	µg/kg dw	< 0,4	< 0,4	< 0,4
8:2 FTUCA	µg/kg dw	< 0,4	< 0,4	< 0,4
Q 9Cl-PF3ONS (F53-B)	µg/kg dw	< 0,1	< 0,1	< 0,1
Q ADONA	µg/kg dw	< 0,1	< 0,1	< 0,1
Q EtFOSA	µg/kg dw	< 0,1	< 0,1	< 0,1
Q EtFOSAA	µg/kg dw	< 0,1	< 0,1	< 0,1
MeFBSA	µg/kg dw	< 0,4	< 0,4	< 0,4
Q MeFOSAA	µg/kg dw	< 0,1	< 0,1	< 0,1
Q P37DMOA	µg/kg dw	< 1	< 1	< 1
Q PFBSA	µg/kg dw	< 0,1	< 0,1	< 0,1
Q MeFOSA	µg/kg dw	< 0,1	< 0,1	< 0,1
Q MeFBSAA	µg/kg dw	< 0,1	< 0,1	< 0,1
Q 8:2 DiPAP	µg/kg dw	< 0,1	< 0,1	< 0,1
sum PFOA	µg/kg dw	0,1	0,1	0,1
sum PFOS	µg/kg dw	0,1	0,1	0,1

- The frontpage and, where applicable, appendices of this document are integral parts of this certificate.

- Analyses marked with a 'Q' are part of the RvA accreditation certificate L086.

- Analyses marked with a 'S' are part of the AS 3000 accreditation certificate.

Verificationcode: LSOH-QJSE-MLHP-LNIZ

Ref.: 1782970_certificaat_v1

CERTIFICATE

Project code : 1782970
 Your Project Description : 24-24795
 Client : Eurofins Chemtest Ltd

Your Sample identification
 8380716 = 1845379 DS24-07 1.10
 8380717 = 1845380 DS24-07 2.40

Client sampling date	:	31/07/2024	31/07/2024
Date of receipt	:	07/08/2024	07/08/2024
Startdate	:	14/08/2024	14/08/2024
Reference number	:	8380716	8380717
Your Matrix	:	Soil	Soil

Sample preparation			
S AS3000 (steekmonster)		done	done
cryogenic grinding			
S sample preparation		done	done

General analysis - physics			
S dry weight	%	79,8	77,2

CERTIFICATE

Project code : 1782970
Your Project Description : 24-24795
Client : Eurofins Chemtest Ltd

Your Sample identification

8380716 = 1845379 DS24-07 1.10
8380717 = 1845380 DS24-07 2.40

Client sampling date	:	31/07/2024	31/07/2024
Date of receipt	:	07/08/2024	07/08/2024
Startdate	:	14/08/2024	14/08/2024
Reference number	:	8380716	8380717
Your Matrix	:	Soil	Soil

Organic compounds - per- and polyfluoroalkylsubstances (PFAS) HPLC-MS/MS
Perfluorinated carboxylic acids:

Q PFBA	µg/kg dw	< 0,1	< 0,1
Q PFPeA	µg/kg dw	< 0,1	< 0,1
Q PFHxA	µg/kg dw	< 0,1	< 0,1
Q PFHpA	µg/kg dw	< 0,1	< 0,1
Q PFOA linear	µg/kg dw	< 0,1	< 0,1
Q PFOA branched	µg/kg dw	< 0,1	< 0,1
Q PFNA	µg/kg dw	< 0,1	< 0,1
Q PFDA	µg/kg dw	< 0,1	< 0,1
Q PFUnDA	µg/kg dw	< 0,1	< 0,1
Q PFDoDA	µg/kg dw	< 0,1	< 0,1
Q PFTTrDA	µg/kg dw	< 0,1	< 0,1
Q PFTeDA	µg/kg dw	< 0,1	< 0,1
Q PFHxDA	µg/kg dw	< 0,1	< 0,1
Q PFODA	µg/kg dw	< 0,1	< 0,1

Perfluorinated sulfonic acids:

Q PFBS	µg/kg dw	< 0,1	< 0,1
Q PFPeS	µg/kg dw	< 0,1	< 0,1
Q PFHxS	µg/kg dw	< 0,1	< 0,1
Q PFHpS	µg/kg dw	< 0,1	< 0,1
Q PFOS linear	µg/kg dw	< 0,1	< 0,1
Q PFOS branched	µg/kg dw	< 0,1	< 0,1
Q PFDS	µg/kg dw	< 0,1	< 0,1

Perfluorinated alkyl substances - precursors:

Q 4:2 FTS	µg/kg dw	< 0,1	< 0,1
Q 6:2 FTS	µg/kg dw	< 0,1	< 0,1
Q 8:2 FTS	µg/kg dw	< 0,1	< 0,1
Q 10:2 FTS	µg/kg dw	< 0,1	< 0,1
Q PFOSA	µg/kg dw	< 0,1	< 0,1

Perfluorinated alkyl substances - remainder:

HPFHpA	µg/kg dw	< 0,4	< 0,4
4H-PFUnDA	µg/kg dw	< 0,4	< 0,4
8:2 FTUCA	µg/kg dw	< 0,4	< 0,4
Q 9Cl-PF3ONS (F53-B)	µg/kg dw	< 0,1	< 0,1
Q ADONA	µg/kg dw	< 0,1	< 0,1
Q EtFOSA	µg/kg dw	< 0,1	< 0,1
Q EtFOSAA	µg/kg dw	< 0,1	< 0,1
MeFBSA	µg/kg dw	< 0,4	< 0,4
Q MeFOSAA	µg/kg dw	< 0,1	< 0,1
Q P37DMOA	µg/kg dw	< 1	< 1
Q PFBSA	µg/kg dw	< 0,1	< 0,1
Q MeFOSA	µg/kg dw	< 0,1	< 0,1
Q MeFBSAA	µg/kg dw	< 0,1	< 0,1
Q 8:2 DiPAP	µg/kg dw	< 0,1	< 0,1
sum PFOA	µg/kg dw	0,1	0,1
sum PFOS	µg/kg dw	0,1	0,1

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- Analyses marked with a 'S' are part of the AS 3000 accreditation certificate.

Verificationcode: LSOH-QJSE-MLHP-LNIZ

Ref.: 1782970_certificaat_v1

C E R T I F I C A T E

Project code : 1782970
Your Project Description : 24-24795
Client : Eurofins Chemtest Ltd

Notes related to analyses

General comments

The following information has been provided by the client if applicable:
Project description, Sample identificaton, Client sampling date, Client Matrix, Sample depth, Pot number (Barcode), Field data, Field observations and sampling data. The client sampling date can affect the validity of the results.

Quantification of branched PFOS/POA is based on DIN 38414-14.

Summation of concentrations for group parameters

Summation is calculated according to AS3000 protocol, paragraph 2.5.2 and appendix 3.

CERTIFICATE

Project code : 1782970
Your Project Description : 24-24795
Client : Eurofins Chemtest Ltd

Appendix Index PFAS

PFAS component	Full name PFAS component
10:2 FTS	10:2 FTS (10:2 Fluorotelomer sulfonic acid)
4:2 FTS	4:2 FTS (4:2 Fluorotelomer sulfonic acid)
4H-PFUnDA	4H-PFUnDA (2H,2H,3H,3H-Perfluoroundecanoic acid)
6:2 FTS	6:2 FTS (6:2 Fluorotelomer sulfonic acid)
8:2 DiPAP	8:2 DiPAP (8:2 Fluorotelomer phosphate diester)
8:2 FTS	8:2 FTS (8:2 Fluorotelomer sulfonic acid)
8:2 FTUCA	8:2 FTUCA (8:2 Fluorotelomer unsaturated carboxylic acid)
9Cl-PF3ONS (F53-B)	9Cl-PF3ONS (F53-B) (9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid)
ADONA	ADONA (ammonium 4,8-dioxa-3H-perfluorononanoate)
EtFOSA	EtFOSA (N-ethyl perfluorooctanesulfonamide)
EtFOSAA	EtFOSAA (perfluorooctanesulfonylamide(N-ethyl)acetate)
HPFHpA	HPFHpA (7H-perfluoroheptanoic acid)
MeFBSA	MeFBSA (N-methylperfluorobutanesulfonylamide)
MeFBSAA	MeFBSAA (perfluorobutanesulfonylamide(N-methyl)acetate)
MeFOSA	MeFOSA (N-methyl perfluorooctanesulfonamide)
MeFOSAA	MeFOSAA (N-methyl perfluorooctanesulfonamidoacetic acid)
P37DMOA	P37DMOA (perfluoro-3,7-dimethyloctanoic acid)
PFBA	PFBA (perfluorobutanoic acid)
PFBS	PFBS (perfluorobutanesulfonic acid)
PFBSA	PFBSA (perfluorobutanesulfonamide)
PFDA	PFDA (perfluorodecanoic acid)
PFDoDA	PFDoDA (perfluorododecanoic acid)
PFDS	PFDS (perfluorodecanesulfonic acid)
PFHpA	PFHpA (perfluoroheptanoic acid)
PFHpS	PFHpS (perfluoroheptanesulfonic acid)
PFHxA	PFHxA (perfluorohexanoic acid)
PFHxDA	PFHxDA (perfluorohexadecanoic acid)
PFHxS	PFHxS (perfluorohexanesulfonic acid)
PFNA	PFNA (perfluorononanoic acid)
PFOA branched	PFOA branched (perfluorooctanoic acid)
PFOA linear	PFOA lineair (perfluorooctanoic acid)
PFODA	PFODA (perfluorooctadecanoic acid)
PFOS branched	PFOS branched (perfluorooctanesulfonic acid)
PFOS linear	PFOS lineair (perfluorooctanesulfonic acid)
PFOSA	PFOSA (perfluorooctanesulfonamide)
PFPeA	PFPeA (perfluoropentanoic acid)
PFPeS	PFPeS (perfluoropentanesulfonic acid)
PFTeDA	PFTeDA (perfluorotetradecanoic acid)
PFTrDA	PFTrDA (perfluorotridecanoic acid)
PFUnDA	PFUnDA (perfluoroundecanoic acid)

C E R T I F I C A T E

Project code : 1782970
Your Project Description : 24-24795
Client : Eurofins Chemtest Ltd

Methodology Soil (AS3000)

AS3000

In dit analysecertificaat zijn de met 'S' gemerkte analyses uitgevoerd volgens de analysemethoden beschreven in het "Accreditatieschema Laboratoriumanalyses voor grond-, waterbodem- en grondwateronderzoek (AS SIKB 3000)". Het laboratoriumonderzoek is uitgevoerd volgens de onderstaande analysemethoden. Deze analyses zijn vastgelegd in het geldende accreditatie-certificaat met bijbehorende verrichtingenlijst L086 van Eurofins Omegam BV.

Samplenate : Conform AS3000 en NEN-EN 16179
 Dry weight : Conform AS3010 prestatieblad 2

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In this certificate of analysis, the analysis marked with 'Q' have been carried out according to the analysis methods below. The analysis are registrated in the current accreditation certificate with associated annex to declaration of accreditation (scope of accreditation) L086 of Eurofins Omegam BV.

PFAS : In house method

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- The frontpage and, where applicable, appendices of this document are integral parts of this certificate.



Final Report

Report No.: 24-25103-1

Initial Date of Issue: 15-Aug-2024

Re-Issue Details:

Client Concept Engineering Consultants

Client Address: 47 -49 Brunel Road
London
W3 7XR

Contact(s): Gabriela Mandache
Kasia Mazerant
Lab

Project 24/3980 - Thorney Lane

Quotation No.: Q24-34527 **Date Received:** 06-Aug-2024

Order No.: 103187 (CL6128) **Date Instructed:** 15-Aug-2024

No. of Samples: 5

Turnaround (Wkdays): 5 **Results Due:** 12-Aug-2024

Date Approved: 14-Aug-2024 **Subcon Results Due:** 28-Aug-2024

Approved By:

Details: David Smith, Technical Director

For details about application of accreditation to specific matrix types, please refer to the Table at the back of this report

Results - Soil

Project: 24/3980 - Thorney Lane

Client: Concept Engineering Consultants		Chemtest Job No.:				24-25103	24-25103	24-25103	24-25103	24-25103
Quotation No.: Q24-34527		Chemtest Sample ID.:				1846698	1846699	1846700	1846701	1846702
		Client Sample ID.:				49	50	51	52	53
		Sample Location:				DS24-08	DS24-08	BH24-08	BH24-08	BH24-08
		Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):				1.50	2.30	0.50	0.80	1.20
		Date Sampled:				02-Aug-2024	02-Aug-2024	02-Aug-2024	02-Aug-2024	02-Aug-2024
		Asbestos Lab:						NEW-ASB	NEW-ASB	NEW-ASB
Determinand	HWOL Code	Accred.	SOP	Units	LOD					
ACM Type		U	2192		N/A			-	-	-
Asbestos Identification		U	2192		N/A			No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
Moisture		N	2030	%	0.020	7.1	18	17	8.2	8.3
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones	Stones	Stones	Stones	Stones
Soil Texture		N	2040		N/A	Sand	Clay	Sand	Sand	Sand
pH at 20C		M	2010		4.0	7.7	7.6	7.3	7.9	8.0
Boron (Hot Water Soluble)		M	2120	mg/kg	0.40	< 0.40	0.67	1.1	1.2	1.3
Cyanide (Complex)		M	2300	mg/kg	0.50			< 0.50		
Cyanide (Free)		M	2300	mg/kg	0.50			< 0.50		
Cyanide (Total)		M	2300	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Thiocyanate		M	2300	mg/kg	5.0			< 5.0		
Arsenic		M	2455	mg/kg	0.5	23	10	6.6	8.6	9.5
Beryllium		U	2455	mg/kg	0.5	0.8	0.6	< 0.5	0.5	0.6
Cadmium		M	2455	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chromium		M	2455	mg/kg	0.5	33	23	17	15	26
Antimony		N	2455	mg/kg	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Copper		M	2455	mg/kg	0.50	15	16	200	51	37
Mercury		M	2455	mg/kg	0.05	< 0.05	< 0.05	0.06	0.13	0.17
Nickel		M	2455	mg/kg	0.50	30	23	21	14	17
Lead		M	2455	mg/kg	0.50	12	12	39	54	65
Selenium		M	2455	mg/kg	0.25	0.63	0.76	< 0.25	0.26	0.45
Vanadium		U	2455	mg/kg	0.5	45	38	27	20	34
Zinc		M	2455	mg/kg	0.50	43	50	380	59	74
Chromium (Hexavalent)		N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	0.14	< 0.05	< 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	< 1.0	< 1.0	< 1.0	3.2	< 1.0
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	< 2.0	< 2.0	5.7	28	5.8
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	< 3.0	31	55	70	5.6
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	< 10	< 10	25	19	< 10

Results - Soil

Project: 24/3980 - Thorney Lane

Client: Concept Engineering Consultants		Chemtest Job No.:				24-25103	24-25103	24-25103	24-25103	24-25103
Quotation No.: Q24-34527		Chemtest Sample ID.:				1846698	1846699	1846700	1846701	1846702
		Client Sample ID.:				49	50	51	52	53
		Sample Location:				DS24-08	DS24-08	BH24-08	BH24-08	BH24-08
		Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):				1.50	2.30	0.50	0.80	1.20
		Date Sampled:				02-Aug-2024	02-Aug-2024	02-Aug-2024	02-Aug-2024	02-Aug-2024
		Asbestos Lab:						NEW-ASB	NEW-ASB	NEW-ASB
Determinand	HWOL Code	Accred.	SOP	Units	LOD					
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	< 5.0	31	61	100	11
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	< 10	31	87	120	11
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	< 2.0	< 2.0	6.2	8.6	7.8
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	< 2.0	< 2.0	16	18	8.1
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	16	1.2	14	3.2	< 1.0
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	< 5.0	< 5.0	22	27	16
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	16	< 10	36	30	16
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	< 10	33	83	130	27
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	16	34	120	150	27
Total Organic Carbon		M	2625	%	0.20	< 0.20	< 0.20	0.73	0.99	1.1
Benzene		M	2760	mg/kg	0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
Toluene		M	2760	mg/kg	0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
Ethylbenzene		M	2760	mg/kg	0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
m & p-Xylene		M	2760	mg/kg	0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
o-Xylene		M	2760	mg/kg	0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
Methyl Tert-Butyl Ether		M	2760	mg/kg	0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
Naphthalene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	< 0.10	< 0.10	1.0	1.2	0.26
Anthracene		M	2800	mg/kg	0.10	< 0.10	< 0.10	0.27	0.28	< 0.10
Fluoranthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	1.9	2.0	0.43
Pyrene		M	2800	mg/kg	0.10	< 0.10	< 0.10	2.3	1.9	0.35
Benzo[a]anthracene		M	2800	mg/kg	0.10	< 0.10	< 0.10	1.1	0.90	0.18
Chrysene		M	2800	mg/kg	0.10	< 0.10	< 0.10	0.92	0.68	0.14
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	1.3	1.2	0.30
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	0.48	0.39	< 0.10
Benzo[a]pyrene		M	2800	mg/kg	0.10	< 0.10	< 0.10	0.86	0.83	0.19
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	< 0.10	< 0.10	0.60	0.58	< 0.10

Results - Soil

Project: 24/3980 - Thorney Lane

Client: Concept Engineering Consultants		Chemtest Job No.:		24-25103	24-25103	24-25103	24-25103	24-25103		
Quotation No.: Q24-34527		Chemtest Sample ID.:		1846698	1846699	1846700	1846701	1846702		
		Client Sample ID.:		49	50	51	52	53		
		Sample Location:		DS24-08	DS24-08	BH24-08	BH24-08	BH24-08		
		Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL		
		Top Depth (m):		1.50	2.30	0.50	0.80	1.20		
		Date Sampled:		02-Aug-2024	02-Aug-2024	02-Aug-2024	02-Aug-2024	02-Aug-2024		
		Asbestos Lab:				NEW-ASB	NEW-ASB	NEW-ASB		
Determinand	HWOL Code	Accred.	SOP	Units	LOD					
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	< 0.10	0.13	0.13	< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	< 0.10	< 0.10	0.67	0.59	< 0.10
Total Of 16 PAH's		N	2800	mg/kg	2.0	< 2.0	< 2.0	12	11	< 2.0
Total Phenols		M	2920	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.22
PFAS Suite Soils		SN		µg/kg	0.0		See Attached	See Attached		See Attached

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
2010	pH Value of Soils	pH at 20°C	pH Meter	
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <30°C.	
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930	
2120	Water Soluble Boron, Sulphate, Magnesium & Chromium	Boron; Sulphate; Magnesium; Chromium	Aqueous extraction / ICP-OES	
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry	
2300	Cyanides & Thiocyanate in Soils	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Alkaline extraction followed by colorimetric determination using Automated Flow Injection Analyser.	
2455	Acid Soluble Metals in Soils	Metals, including: Arsenic; Barium; Beryllium; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Vanadium; Zinc	Acid digestion followed by determination of metals in extract by ICP-MS.	
2490	Hexavalent Chromium in Soils	Chromium [VI]	Soil extracts are prepared by extracting dried and ground soil samples into boiling water. Chromium [VI] is determined by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazine.	
2625	Total Organic Carbon in Soils	Total organic Carbon (TOC)	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.	
2690	EPH A/A Split	Aliphatics: >C10–C12, >C12–C16, >C16–C21, >C21– C35, >C35– C40 Aromatics: >C10–C12, >C12–C16, >C16–C21, >C21– C35, >C35– C40	Acetone/Heptane extraction / GCxGC FID detection	
2760	Volatile Organic Compounds (VOCs) in Soils by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics.(cf. USEPA Method 8260)*please refer to UKAS schedule	Automated headspace gas chromatographic (GC) analysis of a soil sample, as received, with mass spectrometric (MS) detection of volatile organic compounds.	
2780	VPH A/A Split	Aliphatics: >C5–C6, >C6–C7,>C7–C8,>C8-C10 Aromatics: >C5–C7,>C7-C8,>C8–C10	Water extraction / Headspace GCxGC FID detection	
2800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-MS	Acenaphthene*; Acenaphthylene; Anthracene*; Benzo[a]Anthracene*; Benzo[a]Pyrene*; Benzo[b]Fluoranthene*; Benzo[ghi]Perylene*; Benzo[k]Fluoranthene; Chrysene*; Dibenz[ah]Anthracene; Fluoranthene*; Fluorene*; Indeno[123cd]Pyrene*; Naphthalene*; Phenanthrene*; Pyrene*	Dichloromethane extraction / GC-MS	
2920	Phenols in Soils by HPLC	Phenolic compounds including Resorcinol, Phenol, Methylphenols, Dimethylphenols, 1-Naphthol and TrimethylphenolsNote: chlorophenols are excluded.	60:40 methanol/water mixture extraction, followed by HPLC determination using electrochemical detection.	

Report Information

Key

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

This report shall not be reproduced except in full, and only with the prior approval of the laboratory.

Any comments or interpretations are outside the scope of UKAS accreditation.

The Laboratory is not accredited for any sampling activities and reported results relate to the samples 'as received' at the laboratory.

Uncertainty of measurement for the determinands tested are available upon request .

None of the results in this report have been recovery corrected.

All results are expressed on a dry weight basis.

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

For all other tests the samples were dried at $\leq 30^{\circ}\text{C}$ prior to analysis.

All Asbestos testing is performed at the indicated laboratory .

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

Sample Deviation Codes

A - Date of sampling not supplied

B - Sample age exceeds stability time (sampling to extraction)

C - Sample not received in appropriate containers

D - Broken Container

E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt.

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

Charges may apply to extended sample storage.

Water Sample Category Key for Accreditation

DW - Drinking Water

GW - Ground Water

LE - Land Leachate

NA - Not Applicable

Report Information

PL - Prepared Leachate
PW - Processed Water
RE - Recreational Water
SA - Saline Water
SW - Surface Water
TE - Treated Effluent
TS - Treated Sewage
UL - Unspecified Liquid

Clean Up Codes

NC - No Clean Up
MC - Mathematical Clean Up
FC - Florisil Clean Up

HWOL Acronym System

HS - Headspace analysis
EH - Extractable hydrocarbons – i.e. everything extracted by the solvent
CU - Clean-up – e.g. by Florisil, silica gel
1D - GC – Single coil gas chromatography
Total - Aliphatics & Aromatics
AL - Aliphatics only
AR - Aromatic only
2D - GC-GC – Double coil gas chromatography
#1 - EH_2D_Total but with humics mathematically subtracted
#2 - EH_2D_Total but with fatty acids mathematically subtracted
+ - Operator to indicate cumulative e.g. EH+EH_Total or EH_CU+HS_Total

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

CERTIFICATE

Project code : 1783449
 Your Project Description : 24-25103
 Client : Eurofins Chemtest Ltd

Your Sample identification
 8373660 = 1846699 DS24-08 at 2.30m
 8373661 = 1846700 BH24-08 at 0.50m
 8373662 = 1846702 BH24-08 at 1.20m

Client sampling date	:	02/08/2024	02/08/2024	02/08/2024
Date of receipt	:	08/08/2024	08/08/2024	08/08/2024
Startdate	:	08/08/2024	08/08/2024	08/08/2024
Reference number	:	8373660	8373661	8373662
Your Matrix	:	Soil	Soil	Soil

Sample preparation				
S AS3000 (steekmonster)		done	done	done
S sample preparation		done	done	done

General analysis - physics				
S dry weight	%	75,9	76,1	83,0

- The frontpage and, where applicable, appendices of this document are integral parts of this certificate.
 - Analyses marked with a 'Q' are part of the RvA accreditation certificate L086.
 - Analyses marked with a 'S' are part of the AS 3000 accreditation certificate.
 Verificationcode: GXYP-MAGJ-QAVL-MXOV

CERTIFICATE

Project code : 1783449
Your Project Description : 24-25103
Client : Eurofins Chemtest Ltd

Your Sample identification

8373660 = 1846699 DS24-08 at 2.30m
8373661 = 1846700 BH24-08 at 0.50m
8373662 = 1846702 BH24-08 at 1.20m

Client sampling date	:	02/08/2024	02/08/2024	02/08/2024
Date of receipt	:	08/08/2024	08/08/2024	08/08/2024
Startdate	:	08/08/2024	08/08/2024	08/08/2024
Reference number	:	8373660	8373661	8373662
Your Matrix	:	Soil	Soil	Soil

Organic compounds - per- and polyfluoroalkylsubstances (PFAS) HPLC-MS/MS
Perfluorinated carboxylic acids:

Q PFBA	µg/kg dw	< 0,1	< 0,1	< 0,1
Q PFPeA	µg/kg dw	< 0,1	< 0,1	< 0,1
Q PFHxA	µg/kg dw	< 0,1	< 0,1	< 0,1
Q PFHpA	µg/kg dw	< 0,1	< 0,1	< 0,1
Q PFOA linear	µg/kg dw	< 0,1	0,1	< 0,1
Q PFOA branched	µg/kg dw	< 0,1	< 0,1	< 0,1
Q PFNA	µg/kg dw	< 0,1	< 0,1	< 0,1
Q PFDA	µg/kg dw	< 0,1	< 0,1	< 0,1
Q PFUnDA	µg/kg dw	< 0,1	< 0,1	< 0,1
Q PFDoDA	µg/kg dw	< 0,1	< 0,1	< 0,1
Q PFTTrDA	µg/kg dw	< 0,1	< 0,1	< 0,1
Q PFTeDA	µg/kg dw	< 0,1	< 0,1	< 0,1
Q PFHxDA	µg/kg dw	< 0,1	< 0,1	< 0,1
Q PFODA	µg/kg dw	< 0,1	< 0,1	< 0,1

Perfluorinated sulfonic acids:

Q PFBS	µg/kg dw	< 0,1	< 0,1	< 0,1
Q PFPeS	µg/kg dw	< 0,1	< 0,1	< 0,1
Q PFHxS	µg/kg dw	< 0,1	< 0,1	< 0,1
Q PFHpS	µg/kg dw	< 0,1	< 0,1	< 0,1
Q PFOS linear	µg/kg dw	< 0,1	< 0,1	< 0,1
Q PFOS branched	µg/kg dw	< 0,1	< 0,1	< 0,1
Q PFDS	µg/kg dw	< 0,1	< 0,1	< 0,1

Perfluorinated alkyl substances - precursors:

Q 4:2 FTS	µg/kg dw	< 0,1	< 0,1	< 0,1
Q 6:2 FTS	µg/kg dw	< 0,1	< 0,1	< 0,1
Q 8:2 FTS	µg/kg dw	< 0,1	< 0,1	< 0,1
Q 10:2 FTS	µg/kg dw	< 0,1	< 0,1	< 0,1
Q PFOSA	µg/kg dw	< 0,1	< 0,1	< 0,1

Perfluorinated alkyl substances - remainder:

HPFHpA	µg/kg dw	< 0,4	< 0,4	< 0,4
4H-PFUnDA	µg/kg dw	< 0,4	< 0,4	< 0,4
8:2 FTUCA	µg/kg dw	< 0,4	< 0,4	< 0,4
Q 9Cl-PF3ONS (F53-B)	µg/kg dw	< 0,1	< 0,1	< 0,1
Q ADONA	µg/kg dw	< 0,1	< 0,1	< 0,1
Q EtFOSA	µg/kg dw	< 0,1	< 0,1	< 0,1
Q EtFOSAA	µg/kg dw	< 0,1	0,8	< 0,1
MeFBSA	µg/kg dw	< 0,4	< 0,4	< 0,4
Q MeFOSAA	µg/kg dw	< 0,1	0,9	< 0,1
Q P37DMOA	µg/kg dw	< 1	< 1	< 1
Q PFBSA	µg/kg dw	< 0,1	< 0,1	< 0,1
Q MeFOSA	µg/kg dw	< 0,1	< 0,1	< 0,1
Q MeFBSAA	µg/kg dw	< 0,1	< 0,1	< 0,1
Q 8:2 DiPAP	µg/kg dw	< 0,1	< 0,1	< 0,1
sum PFOA	µg/kg dw	0,1	0,2	0,1
sum PFOS	µg/kg dw	0,1	0,1	0,1

- The frontpage and, where applicable, appendices of this document are integral parts of this certificate.

- Analyses marked with a 'Q' are part of the RvA accreditation certificate L086.

- Analyses marked with a 'S' are part of the AS 3000 accreditation certificate.

Verificationcode: GXYP-MAGJ-QAVL-MXOV

Ref.: 1783449_certificaat_v3

C E R T I F I C A T E

Project code : 1783449
Your Project Description : 24-25103
Client : Eurofins Chemtest Ltd

Notes related to analyses

General comments

The following information has been provided by the client if applicable:
 Project description, Sample identificaton, Client sampling date, Client Matrix, Sample depth, Pot number (Barcode), Field data, Field observations and sampling data. The client sampling date can affect the validity of the results.

Quantification of branched PFOS/POA is based on DIN 38414-14.

Summation of concentrations for group parameters

Summation is calculated according to AS3000 protocol, paragraph 2.5.2 and appendix 3.

C E R T I F I C A T E

Project code : 1783449
Your Project Description : 24-25103
Client : Eurofins Chemtest Ltd

Appendix Index PFAS

PFAS component	Full name PFAS component
10:2 FTS	10:2 FTS (10:2 Fluorotelomer sulfonic acid)
4:2 FTS	4:2 FTS (4:2 Fluorotelomer sulfonic acid)
4H-PFUnDA	4H-PFUnDA (2H,2H,3H,3H-Perfluoroundecanoic acid)
6:2 FTS	6:2 FTS (6:2 Fluorotelomer sulfonic acid)
8:2 DiPAP	8:2 DiPAP (8:2 Fluorotelomer phosphate diester)
8:2 FTS	8:2 FTS (8:2 Fluorotelomer sulfonic acid)
8:2 FTUCA	8:2 FTUCA (8:2 Fluorotelomer unsaturated carboxylic acid)
9Cl-PF3ONS (F53-B)	9Cl-PF3ONS (F53-B) (9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid)
ADONA	ADONA (ammonium 4,8-dioxa-3H-perfluorononanoate)
EtFOSA	EtFOSA (N-ethyl perfluorooctanesulfonamide)
EtFOSAA	EtFOSAA (perfluorooctanesulfonylamide(N-ethyl)acetate)
HPFHpA	HPFHpA (7H-perfluoroheptanoic acid)
MeFBSA	MeFBSA (N-methylperfluorobutanesulfonylamide)
MeFBSAA	MeFBSAA (perfluorobutanesulfonylamide(N-methyl)acetate)
MeFOSA	MeFOSA (N-methyl perfluorooctanesulfonamide)
MeFOSAA	MeFOSAA (N-methyl perfluorooctanesulfonamidoacetic acid)
P37DMOA	P37DMOA (perfluoro-3,7-dimethyloctanoic acid)
PFBA	PFBA (perfluorobutanoic acid)
PFBS	PFBS (perfluorobutanesulfonic acid)
PFBSA	PFBSA (perfluorobutanesulfonamide)
PFDA	PFDA (perfluorodecanoic acid)
PFDoDA	PFDoDA (perfluorododecanoic acid)
PFDS	PFDS (perfluorodecanesulfonic acid)
PFHpA	PFHpA (perfluoroheptanoic acid)
PFHpS	PFHpS (perfluoroheptanesulfonic acid)
PFHxA	PFHxA (perfluorohexanoic acid)
PFHxDA	PFHxDA (perfluorohexadecanoic acid)
PFHxS	PFHxS (perfluorohexanesulfonic acid)
PFNA	PFNA (perfluorononanoic acid)
PFOA branched	PFOA branched (perfluorooctanoic acid)
PFOA linear	PFOA lineair (perfluorooctanoic acid)
PFODA	PFODA (perfluorooctadecanoic acid)
PFOS branched	PFOS branched (perfluorooctanesulfonic acid)
PFOS linear	PFOS lineair (perfluorooctanesulfonic acid)
PFOSA	PFOSA (perfluorooctanesulfonamide)
PFPeA	PFPeA (perfluoropentanoic acid)
PFPeS	PFPeS (perfluoropentanesulfonic acid)
PFTeDA	PFTeDA (perfluorotetradecanoic acid)
PFTTrDA	PFTTrDA (perfluorotridecanoic acid)
PFUnDA	PFUnDA (perfluoroundecanoic acid)

C E R T I F I C A T E

Project code : 1783449
Your Project Description : 24-25103
Client : Eurofins Chemtest Ltd

Methodology Soil (AS3000)

AS3000

In dit analysecertificaat zijn de met 'S' gemerkte analyses uitgevoerd volgens de analysemethoden beschreven in het "Accreditatieschema Laboratoriumanalyses voor grond-, waterbodem- en grondwateronderzoek (AS SIKB 3000)". Het laboratoriumonderzoek is uitgevoerd volgens de onderstaande analysemethoden. Deze analyses zijn vastgelegd in het geldende accreditatie-certificaat met bijbehorende verrichtingenlijst L086 van Eurofins Omegam BV.

Samplerate : Conform AS3000 en NEN-EN 16179
 Dry weight : Conform AS3010 prestatieblad 2

In this certificate of analysis, the analysis marked with 'Q' have been carried out according to the analysis methods below. The analysis are registered in the current accreditation certificate with associated annex to declaration of accreditation (scope of accreditation) L086 of Eurofins Omegam BV.

PFAS : In house method



Final Report

Report No.: 24-25249-1

Initial Date of Issue: 14-Aug-2024

Re-Issue Details:

Client Concept Engineering Consultants

Client Address:
Unit D
Herald Way Binley Industrial Estate
Coventry
CV3 2RQ

Contact(s):
Kasia Mazerant
Lab
Gabriela Mandache

Project 24/3980 Thorney Lane

Quotation No.: Q24-34527 **Date Received:** 07-Aug-2024

Order No.: 103199 (CL6134) **Date Instructed:** 07-Aug-2024

No. of Samples: 4

Turnaround (Wkdays): 5 **Results Due:** 13-Aug-2024

Date Approved: 14-Aug-2024

Approved By:

Details: David Smith, Technical Director

For details about application of accreditation to specific matrix types, please refer to the Table at the back of this report

Results - Leachate

Project: 24/3980 Thorney Lane

Client: Concept Engineering Consultants	Chemtest Job No.: 24-25249					
Quotation No.: Q24-34527	Chemtest Sample ID.: 1847496					
	Sample Location: BH24-07					
	Sample Type: SOIL					
	Top Depth (m): 2.20					
	Date Sampled: 05-Aug-2024					
Determinand	Accred.	SOP	Type	Units	LOD	
Total Dissolved Solids	N	1020	10:1	mg/l	1.0	61
Chloride	U	1220	10:1	mg/l	1.0	1.1
Fluoride	U	1220	10:1	mg/l	0.050	0.38
Sulphate	U	1220	10:1	mg/l	1.0	18
Arsenic (Dissolved)	U	1455	10:1	µg/l	0.20	3.4
Barium (Dissolved)	U	1455	10:1	µg/l	5.00	19
Cadmium (Dissolved)	U	1455	10:1	µg/l	0.11	< 0.11
Chromium (Dissolved)	U	1455	10:1	µg/l	0.50	0.97
Copper (Dissolved)	U	1455	10:1	µg/l	0.50	3.7
Mercury (Dissolved)	U	1455	10:1	µg/l	0.05	< 0.05
Molybdenum (Dissolved)	U	1455	10:1	µg/l	0.20	2.7
Nickel (Dissolved)	U	1455	10:1	µg/l	0.50	1.9
Lead (Dissolved)	U	1455	10:1	µg/l	0.50	2.3
Antimony (Dissolved)	U	1455	10:1	µg/l	0.50	< 0.50
Selenium (Dissolved)	U	1455	10:1	µg/l	0.50	0.55
Zinc (Dissolved)	U	1455	10:1	µg/l	2.5	2.9
Dissolved Organic Carbon	U	1610	10:1	mg/l	2.0	6.5
Total Phenols	U	1920	10:1	mg/l	0.030	< 0.030

Results - Soil

Project: 24/3980 Thorney Lane

Client: Concept Engineering Consultants		Chemtest Job No.:				24-25249	24-25249	24-25249	24-25249
Quotation No.: Q24-34527		Chemtest Sample ID.:				1847496	1847497	1847498	1847500
		Sample Location:				BH24-07	BH24-07	BH24-08	BH24-08
		Sample Type:				SOIL	SOIL	SOIL	SOIL
		Top Depth (m):				2.20	3.50	1.80	3.00
		Date Sampled:				05-Aug-2024	05-Aug-2024	05-Aug-2024	05-Aug-2024
Determinand	HWOL Code	Accred.	SOP	Units	LOD				
Moisture		N	2030	%	0.020	19	18	9.1	16
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones	Stones	Stones	Stones
Soil Texture		N	2040		N/A	Clay	Clay	Sand	Clay
pH at 20C		M	2010		4.0	8.0	8.0	8.4	8.3
Boron (Hot Water Soluble)		M	2120	mg/kg	0.40	0.99	0.97	< 0.40	0.80
Cyanide (Total)		M	2300	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Arsenic		M	2455	mg/kg	0.5	4.7	2.1	13	4.8
Beryllium		U	2455	mg/kg	0.5	< 0.5	< 0.5	< 0.5	< 0.5
Cadmium		M	2455	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chromium		M	2455	mg/kg	0.5	29	27	18	22
Antimony		N	2455	mg/kg	2.0	< 2.0	< 2.0	< 2.0	< 2.0
Copper		M	2455	mg/kg	0.50	17	13	4.2	15
Mercury		M	2455	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05
Nickel		M	2455	mg/kg	0.50	27	27	19	28
Lead		M	2455	mg/kg	0.50	11	7.2	2.0	9.7
Selenium		M	2455	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25
Vanadium		U	2455	mg/kg	0.5	39	31	27	35
Zinc		M	2455	mg/kg	0.50	57	45	26	53
Chromium (Hexavalent)		N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	< 2.0	< 2.0	< 2.0	< 2.0
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	< 1.0	< 1.0	1.6	< 1.0
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	< 2.0	< 2.0	< 2.0	< 2.0
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	< 3.0	< 3.0	< 3.0	< 3.0
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	< 10	< 10	< 10	< 10
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	< 5.0	< 5.0	< 5.0	< 5.0
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	< 10	< 10	< 10	< 10
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	< 1.0	< 1.0	< 1.0

Results - Soil

Project: 24/3980 Thorney Lane

Client: Concept Engineering Consultants		Chemtest Job No.:				24-25249	24-25249	24-25249	24-25249
Quotation No.: Q24-34527		Chemtest Sample ID.:				1847496	1847497	1847498	1847500
		Sample Location:				BH24-07	BH24-07	BH24-08	BH24-08
		Sample Type:				SOIL	SOIL	SOIL	SOIL
		Top Depth (m):				2.20	3.50	1.80	3.00
		Date Sampled:				05-Aug-2024	05-Aug-2024	05-Aug-2024	05-Aug-2024
Determinand	HWOL Code	Accred.	SOP	Units	LOD				
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	4.0	2.5	2.5	3.9
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	< 2.0	< 2.0	< 2.0	< 2.0
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	< 1.0	< 1.0	< 1.0	< 1.0
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	5.2	< 5.0	< 5.0	5.3
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	< 10	< 10	< 10	< 10
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	< 10	< 10	< 10	< 10
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	< 10	< 10	< 10	< 10
Total Organic Carbon		M	2625	%	0.20	< 0.20	0.48	< 0.20	0.55
Benzene		M	2760	mg/kg	0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
Toluene		M	2760	mg/kg	0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
Ethylbenzene		M	2760	mg/kg	0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
m & p-Xylene		M	2760	mg/kg	0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
o-Xylene		M	2760	mg/kg	0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
Methyl Tert-Butyl Ether		M	2760	mg/kg	0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
Naphthalene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	0.14	< 0.10	< 0.10	< 0.10
Anthracene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluoranthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Pyrene		M	2800	mg/kg	0.10	0.13	< 0.10	< 0.10	< 0.10
Benzo[a]anthracene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chrysene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]pyrene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Of 16 PAH's		N	2800	mg/kg	2.0	< 2.0	< 2.0	< 2.0	< 2.0
PCB 81		N	2815	mg/kg	0.010			< 0.010	
PCB 77		U	2815	mg/kg	0.010			< 0.010	
PCB 105		N	2815	mg/kg	0.010			< 0.010	
PCB 114		N	2815	mg/kg	0.010			< 0.010	
PCB 118		N	2815	mg/kg	0.010			< 0.010	
PCB 123		N	2815	mg/kg	0.010			< 0.010	
PCB 126		N	2815	mg/kg	0.010			< 0.010	

Results - Soil

Project: 24/3980 Thorney Lane

Client: Concept Engineering Consultants		Chemtest Job No.:		24-25249	24-25249	24-25249	24-25249
Quotation No.: Q24-34527		Chemtest Sample ID.:		1847496	1847497	1847498	1847500
		Sample Location:		BH24-07	BH24-07	BH24-08	BH24-08
		Sample Type:		SOIL	SOIL	SOIL	SOIL
		Top Depth (m):		2.20	3.50	1.80	3.00
		Date Sampled:		05-Aug-2024	05-Aug-2024	05-Aug-2024	05-Aug-2024
Determinand	HWOL Code	Accred.	SOP	Units	LOD		
PCB 156		N	2815	mg/kg	0.010		< 0.010
PCB 157		N	2815	mg/kg	0.010		< 0.010
PCB 167		N	2815	mg/kg	0.010		< 0.010
PCB 169		N	2815	mg/kg	0.010		< 0.010
PCB 189		N	2815	mg/kg	0.010		< 0.010
Total PCBs (12 Congeners)		N	2815	mg/kg	0.12		< 0.12
Total Phenols		M	2920	mg/kg	0.10	< 0.10	< 0.10

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
1020	Electrical Conductivity and Total Dissolved Solids (TDS) in Waters	Electrical Conductivity at 25°C and Total Dissolved Solids (TDS) in Waters	Conductivity Meter	
1220	Anions, Alkalinity & Ammonium in Waters	Fluoride; Chloride; Nitrite; Nitrate; Total; Oxidisable Nitrogen (TON); Sulfate; Phosphate; Alkalinity; Ammonium	Automated colorimetric analysis using 'Aquakem 600' Discrete Analyser.	
1455	Metals in Waters by ICP-MS	Metals, including: Antimony; Arsenic; Barium; Beryllium; Boron; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Tin; Vanadium; Zinc	Filtration of samples followed by direct determination by inductively coupled plasma mass spectrometry (ICP-MS).	
1610	Total/Dissolved Organic Carbon in Waters	Organic Carbon	TOC Analyser using Catalytic Oxidation	
1920	Phenols in Waters by HPLC	Phenolic compounds including: Phenol, Cresols, Xylenols, Trimethylphenols Note: Chlorophenols are excluded.	Determination by High Performance Liquid Chromatography (HPLC) using electrochemical detection.	
2010	pH Value of Soils	pH at 20°C	pH Meter	
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <30°C.	
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930	
2120	Water Soluble Boron, Sulphate, Magnesium & Chromium	Boron; Sulphate; Magnesium; Chromium	Aqueous extraction / ICP-OES	
2300	Cyanides & Thiocyanate in Soils	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Alkaline extraction followed by colorimetric determination using Automated Flow Injection Analyser.	
2455	Acid Soluble Metals in Soils	Metals, including: Arsenic; Barium; Beryllium; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Vanadium; Zinc	Acid digestion followed by determination of metals in extract by ICP-MS.	
2490	Hexavalent Chromium in Soils	Chromium [VI]	Soil extracts are prepared by extracting dried and ground soil samples into boiling water. Chromium [VI] is determined by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazine.	
2625	Total Organic Carbon in Soils	Total organic Carbon (TOC)	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.	
2690	EPH A/A Split	Aliphatics: >C10-C12, >C12-C16, >C16-C21, >C21- C35, >C35- C40 Aromatics: >C10-C12, >C12-C16, >C16-C21, >C21- C35, >C35- C40	Acetone/Heptane extraction / GCxGC FID detection	
2760	Volatile Organic Compounds (VOCs) in Soils by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics.(cf. USEPA Method 8260)*please refer to UKAS schedule	Automated headspace gas chromatographic (GC) analysis of a soil sample, as received, with mass spectrometric (MS) detection of volatile organic compounds.	
2780	VPH A/A Split	Aliphatics: >C5-C6, >C6-C7,>C7-C8,>C8-C10 Aromatics: >C5-C7,>C7-C8,>C8-C10	Water extraction / Headspace GCxGC FID detection	
2800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-MS	Acenaphthene*; Acenaphthylene; Anthracene*; Benzo[a]Anthracene*; Benzo[a]Pyrene*; Benzo[b]Fluoranthene*; Benzo[ghi]Perylene*; Benzo[k]Fluoranthene; Chrysene*; Dibenz[ah]Anthracene; Fluoranthene*; Fluorene*; Indeno[123cd]Pyrene*; Naphthalene*; Phenanthrene*; Pyrene*	Dichloromethane extraction / GC-MS	
2810	Polychlorinated Biphenyls (PCB) as Aroclors in Soils by GC-ECD	Polychlorinated Biphenyls expressed as an Aroclor (normally reported as *Aroclor 1242)	Extraction of a soil sample, as received, into hexane/acetone (50:50) followed by gas chromatography (GC) using mass spectrometric (MS) detection for identification of polychlorinated biphenyls and electron capture detection (ECD) for quantitation if present.	

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
2815	Polychlorinated Biphenyls (PCB) ICES7 Congeners in Soils by GC-MS	ICES7 PCB congeners	Acetone/Hexane extraction / GC-MS. Reported PCB 101 results may contain contributions from PCB 90 due to inseparable chromatography.	
2920	Phenols in Soils by HPLC	Phenolic compounds including Resorcinol, Phenol, Methylphenols, Dimethylphenols, 1-Naphthol and Trimethylphenols Note: chlorophenols are excluded.	60:40 methanol/water mixture extraction, followed by HPLC determination using electrochemical detection.	
640	Characterisation of Waste (Leaching C10)	Waste material including soil, sludges and granular waste	Compliance Test for Leaching of Granular Waste Material and Sludge	

Report Information

Key

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

This report shall not be reproduced except in full, and only with the prior approval of the laboratory.

Any comments or interpretations are outside the scope of UKAS accreditation.

The Laboratory is not accredited for any sampling activities and reported results relate to the samples 'as received' at the laboratory.

Uncertainty of measurement for the determinands tested are available upon request .

None of the results in this report have been recovery corrected.

All results are expressed on a dry weight basis.

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

For all other tests the samples were dried at $\leq 30^{\circ}\text{C}$ prior to analysis.

All Asbestos testing is performed at the indicated laboratory .

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

Sample Deviation Codes

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

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt.

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

Charges may apply to extended sample storage.

Water Sample Category Key for Accreditation

- DW - Drinking Water
- GW - Ground Water
- LE - Land Leachate
- NA - Not Applicable

Report Information

PL - Prepared Leachate
PW - Processed Water
RE - Recreational Water
SA - Saline Water
SW - Surface Water
TE - Treated Effluent
TS - Treated Sewage
UL - Unspecified Liquid

Clean Up Codes

NC - No Clean Up
MC - Mathematical Clean Up
FC - Florisil Clean Up

HWOL Acronym System

HS - Headspace analysis
EH - Extractable hydrocarbons – i.e. everything extracted by the solvent
CU - Clean-up – e.g. by Florisil, silica gel
1D - GC – Single coil gas chromatography
Total - Aliphatics & Aromatics
AL - Aliphatics only
AR - Aromatic only
2D - GC-GC – Double coil gas chromatography
#1 - EH_2D_Total but with humics mathematically subtracted
#2 - EH_2D_Total but with fatty acids mathematically subtracted
+ - Operator to indicate cumulative e.g. EH+EH_Total or EH_CU+HS_Total

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



Final Report

Report No.: 24-25893-1

Initial Date of Issue: 27-Aug-2024

Re-Issue Details:

Client Concept Engineering Consultants

Client Address: 47 -49 Brunel Road
London
W3 7XR

Contact(s): Gabriela Mandache
Kasia Mazerant
Lab

Project 24/3980 - Thorney Lane

Quotation No.: Q24-34527 **Date Received:** 13-Aug-2024

Order No.: 103268 (CL6153) **Date Instructed:** 15-Aug-2024

No. of Samples: 2

Turnaround (Wkdays): 5 **Results Due:** 21-Aug-2024

Date Approved: 27-Aug-2024 **Subcon Results Due:** 06-Sep-2024

Approved By:

Details: David Smith, Technical Director

For details about application of accreditation to specific matrix types, please refer to the Table at the back of this report

Results - Soil

Project: 24/3980 - Thorney Lane

Client: Concept Engineering Consultants		Chemtest Job No.:		24-25893	24-25893	
Quotation No.: Q24-34527		Chemtest Sample ID.:		1850251	1850253	
Order No.: 103268 (CL6153)		Client Sample Ref.:		63	65	
		Sample Location:		BH24-03	BH24-03	
		Sample Type:		SOIL	SOIL	
		Top Depth (m):		0.20	1.70	
		Date Sampled:		09-Aug-2024	09-Aug-2024	
		Asbestos Lab:		DURHAM		
Determinand	HWOL Code	Accred.	SOP	Units	LOD	
ACM Type		U	2192		N/A	-
Asbestos Identification		U	2192		N/A	No Asbestos Detected
Moisture		N	2030	%	0.020	7.3 17
Soil Colour		N	2040		N/A	Brown Brown
Other Material		N	2040		N/A	Stones None
Soil Texture		N	2040		N/A	Clay Clay
pH at 20C		M	2010		4.0	8.8 8.7
Boron (Hot Water Soluble)		M	2120	mg/kg	0.40	0.91 1.2
Cyanide (Total)		M	2300	mg/kg	0.50	< 0.50 < 0.50
Arsenic		M	2455	mg/kg	0.5	12 20
Beryllium		U	2455	mg/kg	0.5	0.6 1.2
Cadmium		M	2455	mg/kg	0.10	< 0.10 < 0.10
Chromium		M	2455	mg/kg	0.5	21 56
Antimony		N	2455	mg/kg	2.0	< 2.0 < 2.0
Copper		M	2455	mg/kg	0.50	19 41
Mercury		M	2455	mg/kg	0.05	0.45 0.06
Nickel		M	2455	mg/kg	0.50	20 60
Lead		M	2455	mg/kg	0.50	88 22
Selenium		M	2455	mg/kg	0.25	0.53 2.5
Vanadium		U	2455	mg/kg	0.5	31 83
Zinc		M	2455	mg/kg	0.50	55 100
Chromium (Hexavalent)		N	2490	mg/kg	0.50	< 0.50 < 0.50
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05 < 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05 < 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05 < 0.05
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10	< 0.10 < 0.10
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05 < 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	< 0.25 < 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	< 2.0 < 2.0
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	< 1.0 < 1.0
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	< 2.0 < 2.0
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	< 3.0 < 3.0
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	< 10 < 10
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	< 5.0 < 5.0
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	< 10 < 10
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05 < 0.05

Results - Soil

Project: 24/3980 - Thorney Lane

Client: Concept Engineering Consultants		Chemtest Job No.:		24-25893	24-25893		
Quotation No.: Q24-34527		Chemtest Sample ID.:		1850251	1850253		
Order No.: 103268 (CL6153)		Client Sample Ref.:		63	65		
		Sample Location:		BH24-03	BH24-03		
		Sample Type:		SOIL	SOIL		
		Top Depth (m):		0.20	1.70		
		Date Sampled:		09-Aug-2024	09-Aug-2024		
		Asbestos Lab:		DURHAM			
Determinand	HWOL Code	Accred.	SOP	Units	LOD		
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	< 0.25	< 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	< 1.0
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	< 1.0
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	5.3	3.6
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	< 2.0	< 2.0
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	< 1.0	< 1.0
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	6.4	5.0
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	< 10	< 10
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	< 0.50	< 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	< 10	< 10
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	< 10	< 10
Total Organic Carbon		M	2625	%	0.20	0.71	0.39
Benzene		M	2760	mg/kg	0.0010	< 0.0010	< 0.0010
Toluene		M	2760	mg/kg	0.0010	< 0.0010	< 0.0010
Ethylbenzene		M	2760	mg/kg	0.0010	< 0.0010	< 0.0010
m & p-Xylene		M	2760	mg/kg	0.0010	< 0.0010	< 0.0010
o-Xylene		M	2760	mg/kg	0.0010	< 0.0010	< 0.0010
Methyl Tert-Butyl Ether		M	2760	mg/kg	0.0010	< 0.0010	< 0.0010
Naphthalene		M	2800	mg/kg	0.10	< 0.10	< 0.10
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	< 0.10	< 0.10
Fluorene		M	2800	mg/kg	0.10	< 0.10	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	0.47	< 0.10
Anthracene		M	2800	mg/kg	0.10	0.21	< 0.10
Fluoranthene		M	2800	mg/kg	0.10	1.0	< 0.10
Pyrene		M	2800	mg/kg	0.10	0.94	< 0.10
Benzo[a]anthracene		M	2800	mg/kg	0.10	< 0.10	< 0.10
Chrysene		M	2800	mg/kg	0.10	< 0.10	< 0.10
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	< 0.10	< 0.10
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	< 0.10	< 0.10
Benzo[a]pyrene		M	2800	mg/kg	0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	< 0.10	< 0.10
Total Of 16 PAH's		N	2800	mg/kg	2.0	2.6	< 2.0

Results - Soil

Project: 24/3980 - Thorney Lane

Client: Concept Engineering Consultants		Chemtest Job No.:				24-25893	24-25893
Quotation No.: Q24-34527		Chemtest Sample ID.:				1850251	1850253
Order No.: 103268 (CL6153)		Client Sample Ref.:				63	65
		Sample Location:				BH24-03	BH24-03
		Sample Type:				SOIL	SOIL
		Top Depth (m):				0.20	1.70
		Date Sampled:				09-Aug-2024	09-Aug-2024
		Asbestos Lab:				DURHAM	
Determinand	HWOL Code	Accred.	SOP	Units	LOD		
Total Phenols		M	2920	mg/kg	0.10	< 0.10	< 0.10
PFAS Suite Soils		SN		µg/kg	0.0	See Attached	See Attached

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
2010	pH Value of Soils	pH at 20°C	pH Meter	
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <30°C.	
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930	
2120	Water Soluble Boron, Sulphate, Magnesium & Chromium	Boron; Sulphate; Magnesium; Chromium	Aqueous extraction / ICP-OES	
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry	
2300	Cyanides & Thiocyanate in Soils	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Alkaline extraction followed by colorimetric determination using Automated Flow Injection Analyser.	
2455	Acid Soluble Metals in Soils	Metals, including: Arsenic; Barium; Beryllium; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Vanadium; Zinc	Acid digestion followed by determination of metals in extract by ICP-MS.	
2490	Hexavalent Chromium in Soils	Chromium [VI]	Soil extracts are prepared by extracting dried and ground soil samples into boiling water. Chromium [VI] is determined by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazine.	
2625	Total Organic Carbon in Soils	Total organic Carbon (TOC)	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.	
2690	EPH A/A Split	Aliphatics: >C10–C12, >C12–C16, >C16–C21, >C21– C35, >C35– C40 Aromatics: >C10–C12, >C12–C16, >C16–C21, >C21– C35, >C35– C40	Acetone/Heptane extraction / GCxGC FID detection	
2760	Volatile Organic Compounds (VOCs) in Soils by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics.(cf. USEPA Method 8260)*please refer to UKAS schedule	Automated headspace gas chromatographic (GC) analysis of a soil sample, as received, with mass spectrometric (MS) detection of volatile organic compounds.	
2780	VPH A/A Split	Aliphatics: >C5–C6, >C6–C7,>C7–C8,>C8-C10 Aromatics: >C5–C7,>C7-C8,>C8–C10	Water extraction / Headspace GCxGC FID detection	
2800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-MS	Acenaphthene*; Acenaphthylene; Anthracene*; Benzo[a]Anthracene*; Benzo[a]Pyrene*; Benzo[b]Fluoranthene*; Benzo[ghi]Perylene*; Benzo[k]Fluoranthene; Chrysene*; Dibenz[ah]Anthracene; Fluoranthene*; Fluorene*; Indeno[123cd]Pyrene*; Naphthalene*; Phenanthrene*; Pyrene*	Dichloromethane extraction / GC-MS	
2920	Phenols in Soils by HPLC	Phenolic compounds including Resorcinol, Phenol, Methylphenols, Dimethylphenols, 1-Naphthol and TrimethylphenolsNote: chlorophenols are excluded.	60:40 methanol/water mixture extraction, followed by HPLC determination using electrochemical detection.	

Report Information

Key

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

This report shall not be reproduced except in full, and only with the prior approval of the laboratory.

Any comments or interpretations are outside the scope of UKAS accreditation.

The Laboratory is not accredited for any sampling activities and reported results relate to the samples 'as received' at the laboratory.

Uncertainty of measurement for the determinands tested are available upon request .

None of the results in this report have been recovery corrected.

All results are expressed on a dry weight basis.

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

For all other tests the samples were dried at $\leq 30^{\circ}\text{C}$ prior to analysis.

All Asbestos testing is performed at the indicated laboratory .

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

Sample Deviation Codes

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

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt.

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

Charges may apply to extended sample storage.

Water Sample Category Key for Accreditation

- DW - Drinking Water
- GW - Ground Water
- LE - Land Leachate
- NA - Not Applicable

Report Information

PL - Prepared Leachate
PW - Processed Water
RE - Recreational Water
SA - Saline Water
SW - Surface Water
TE - Treated Effluent
TS - Treated Sewage
UL - Unspecified Liquid

Clean Up Codes

NC - No Clean Up
MC - Mathematical Clean Up
FC - Florisil Clean Up

HWOL Acronym System

HS - Headspace analysis
EH - Extractable hydrocarbons – i.e. everything extracted by the solvent
CU - Clean-up – e.g. by Florisil, silica gel
1D - GC – Single coil gas chromatography
Total - Aliphatics & Aromatics
AL - Aliphatics only
AR - Aromatic only
2D - GC-GC – Double coil gas chromatography
#1 - EH_2D_Total but with humics mathematically subtracted
#2 - EH_2D_Total but with fatty acids mathematically subtracted
+ - Operator to indicate cumulative e.g. EH+EH_Total or EH_CU+HS_Total

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

CERTIFICATE

Project code : 1787703
 Your Project Description : 24-25893
 Client : Eurofins Chemtest Ltd

Your Sample identification
 8384932 = 1850251 BH24-03-0.20
 8384956 = 1850253 BH24-03-1.70

Client sampling date	:	09/08/2024	09/08/2024
Date of receipt	:	19/08/2024	19/08/2024
Startdate	:	19/08/2024	19/08/2024
Reference number	:	8384932	8384956
Your Matrix	:	Soil	Soil

Sample preparation			
S AS3000 (steekmonster)		done	done
cryogenic grinding		grinded	
S sample preparation		done	done

General analysis - physics			
S dry weight	%	86,6	75,4

CERTIFICATE

Project code : 1787703
Your Project Description : 24-25893
Client : Eurofins Chemtest Ltd

Your Sample identification

8384932 = 1850251 BH24-03-0.20
8384956 = 1850253 BH24-03-1.70

Client sampling date	:	09/08/2024	09/08/2024
Date of receipt	:	19/08/2024	19/08/2024
Startdate	:	19/08/2024	19/08/2024
Reference number	:	8384932	8384956
Your Matrix	:	Soil	Soil

Organic compounds - per- and polyfluoroalkylsubstances (PFAS) HPLC-MS/MS
Perfluorinated carboxylic acids:

Q PFBA	µg/kg dw	< 0,1	0,4
Q PFPeA	µg/kg dw	< 0,1	1,0
Q PFHxA	µg/kg dw	< 0,1	0,9
Q PFHpA	µg/kg dw	< 0,1	0,4
Q PFOA linear	µg/kg dw	< 0,1	4,9
Q PFOA branched	µg/kg dw	< 0,1	< 0,1
Q PFNA	µg/kg dw	< 0,1	1,4
Q PFDA	µg/kg dw	< 0,1	2,0
Q PFUnDA	µg/kg dw	< 0,1	0,2
Q PFDoDA	µg/kg dw	< 0,1	0,5
Q PFTTrDA	µg/kg dw	< 0,1	< 0,1
Q PFTeDA	µg/kg dw	< 0,1	0,1
Q PFHxDA	µg/kg dw	< 0,1	< 0,1
Q PFODA	µg/kg dw	< 0,1	< 0,1

Perfluorinated sulfonic acids:

Q PFBS	µg/kg dw	< 0,1	< 0,1
Q PFPeS	µg/kg dw	< 0,1	< 0,1
Q PFHxS	µg/kg dw	< 0,1	0,1
Q PFHpS	µg/kg dw	< 0,1	< 0,1
Q PFOS linear	µg/kg dw	< 0,1	1,7
Q PFOS branched	µg/kg dw	< 0,1	1,2
Q PFDS	µg/kg dw	< 0,1	< 0,1

Perfluorinated alkyl substances - precursors:

Q 4:2 FTS	µg/kg dw	< 0,1	< 0,1
Q 6:2 FTS	µg/kg dw	< 0,1	0,3
Q 8:2 FTS	µg/kg dw	< 0,1	0,3
Q 10:2 FTS	µg/kg dw	< 0,1	< 0,1
Q PFOSA	µg/kg dw	< 0,1	< 0,1

Perfluorinated alkyl substances - remainder:

HPFHpA	µg/kg dw	< 0,4	< 0,4
4H-PFUnDA	µg/kg dw	< 0,4	< 0,4
8:2 FTUCA	µg/kg dw	< 0,4	< 0,4
Q 9Cl-PF3ONS (F53-B)	µg/kg dw	< 0,1	< 0,1
Q ADONA	µg/kg dw	< 0,1	< 0,1
Q EtFOSA	µg/kg dw	< 0,1	< 0,1
Q EtFOSAA	µg/kg dw	< 0,1	< 0,1
MeFBSA	µg/kg dw	< 0,4	< 0,4
Q MeFOSAA	µg/kg dw	< 0,1	< 0,1
Q P37DMOA	µg/kg dw	< 1	< 1
Q PFBSA	µg/kg dw	< 0,1	< 0,1
Q MeFOSA	µg/kg dw	< 0,1	< 0,1
Q MeFBSAA	µg/kg dw	< 0,1	< 0,1
Q 8:2 DiPAP	µg/kg dw	< 0,1	< 0,1
sum PFOA	µg/kg dw	0,1	5,0
sum PFOS	µg/kg dw	0,1	2,9

- The frontpage and, where applicable, appendices of this document are integral parts of this certificate.

- Analyses marked with a 'Q' are part of the RvA accreditation certificate L086.

- Analyses marked with a 'S' are part of the AS 3000 accreditation certificate.

Verificationcode: PUYO-HTWZ-RNLP-BQON

Ref.: 1787703_certificaat_v1

C E R T I F I C A T E

Project code : 1787703
Your Project Description : 24-25893
Client : Eurofins Chemtest Ltd

Notes related to analyses

General comments

The following information has been provided by the client if applicable:
Project description, Sample identificaton, Client sampling date, Client Matrix, Sample depth, Pot number (Barcode), Field data, Field observations and sampling data. The client sampling date can affect the validity of the results.

Quantification of branched PFOS/POA is based on DIN 38414-14.

Summation of concentrations for group parameters

Summation is calculated according to AS3000 protocol, paragraph 2.5.2 and appendix 3.

CERTIFICATE

Project code : 1787703
Your Project Description : 24-25893
Client : Eurofins Chemtest Ltd

Appendix Index PFAS

PFAS component	Full name PFAS component
10:2 FTS	10:2 FTS (10:2 Fluorotelomer sulfonic acid)
4:2 FTS	4:2 FTS (4:2 Fluorotelomer sulfonic acid)
4H-PFUnDA	4H-PFUnDA (2H,2H,3H,3H-Perfluoroundecanoic acid)
6:2 FTS	6:2 FTS (6:2 Fluorotelomer sulfonic acid)
8:2 DiPAP	8:2 DiPAP (8:2 Fluorotelomer phosphate diester)
8:2 FTS	8:2 FTS (8:2 Fluorotelomer sulfonic acid)
8:2 FTUCA	8:2 FTUCA (8:2 Fluorotelomer unsaturated carboxylic acid)
9Cl-PF3ONS (F53-B)	9Cl-PF3ONS (F53-B) (9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid)
ADONA	ADONA (ammonium 4,8-dioxa-3H-perfluorononanoate)
EtFOSA	EtFOSA (N-ethyl perfluorooctanesulfonamide)
EtFOSAA	EtFOSAA (perfluorooctanesulfonylamide(N-ethyl)acetate)
HPFHpA	HPFHpA (7H-perfluoroheptanoic acid)
MeFBSA	MeFBSA (N-methylperfluorobutanesulfonylamide)
MeFBSAA	MeFBSAA (perfluorobutanesulfonylamide(N-methyl)acetate)
MeFOSA	MeFOSA (N-methyl perfluorooctanesulfonamide)
MeFOSAA	MeFOSAA (N-methyl perfluorooctanesulfonamidoacetic acid)
P37DMOA	P37DMOA (perfluoro-3,7-dimethyloctanoic acid)
PFBA	PFBA (perfluorobutanoic acid)
PFBS	PFBS (perfluorobutanesulfonic acid)
PFBSA	PFBSA (perfluorobutanesulfonamide)
PFDA	PFDA (perfluorodecanoic acid)
PFDoDA	PFDoDA (perfluorododecanoic acid)
PFDS	PFDS (perfluorodecanesulfonic acid)
PFHpA	PFHpA (perfluoroheptanoic acid)
PFHpS	PFHpS (perfluoroheptanesulfonic acid)
PFHxA	PFHxA (perfluorohexanoic acid)
PFHxDA	PFHxDA (perfluorohexadecanoic acid)
PFHxS	PFHxS (perfluorohexanesulfonic acid)
PFNA	PFNA (perfluorononanoic acid)
PFOA branched	PFOA branched (perfluorooctanoic acid)
PFOA linear	PFOA lineair (perfluorooctanoic acid)
PFODA	PFODA (perfluorooctadecanoic acid)
PFOS branched	PFOS branched (perfluorooctanesulfonic acid)
PFOS linear	PFOS lineair (perfluorooctanesulfonic acid)
PFOSA	PFOSA (perfluorooctanesulfonamide)
PFPeA	PFPeA (perfluoropentanoic acid)
PFPeS	PFPeS (perfluoropentanesulfonic acid)
PFTeDA	PFTeDA (perfluorotetradecanoic acid)
PFTrDA	PFTrDA (perfluorotridecanoic acid)
PFUnDA	PFUnDA (perfluoroundecanoic acid)

C E R T I F I C A T E

Project code : 1787703
Your Project Description : 24-25893
Client : Eurofins Chemtest Ltd

Methodology Soil (AS3000)

AS3000

In dit analysecertificaat zijn de met 'S' gemerkte analyses uitgevoerd volgens de analysemethoden beschreven in het "Accreditatieschema Laboratoriumanalyses voor grond-, waterbodem- en grondwateronderzoek (AS SIKB 3000)". Het laboratoriumonderzoek is uitgevoerd volgens de onderstaande analysemethoden. Deze analyses zijn vastgelegd in het geldende accreditatie-certificaat met bijbehorende verrichtingenlijst L086 van Eurofins Omegam BV.

Samplenate : Conform AS3000 en NEN-EN 16179
 Dry weight : Conform AS3010 prestatieblad 2

In this certificate of analysis, the analysis marked with 'Q' have been carried out according to the analysis methods below. The analysis are registrated in the current accreditation certificate with associated annex to declaration of accreditation (scope of accreditation) L086 of Eurofins Omegam BV.

PFAS : In house method



Final Report

Report No.: 24-26070-1

Initial Date of Issue: 27-Aug-2024

Re-Issue Details:

Client Concept Engineering Consultants

Client Address: 47 -49 Brunel Road
London
W3 7XR

Contact(s): Gabriela Mandache
Kasia Mazerant
Lab

Project 24/3980 - Thorney Lane

Quotation No.: Q24-34527 **Date Received:** 14-Aug-2024

Order No.: 103269 (CL6154) **Date Instructed:** 15-Aug-2024

No. of Samples: 4

Turnaround (Wkdays): 5 **Results Due:** 21-Aug-2024

Date Approved: 27-Aug-2024 **Subcon Results Due:** 06-Sep-2024

Approved By:

Details: David Smith, Technical Director

For details about application of accreditation to specific matrix types, please refer to the Table at the back of this report

Results - Leachate

Project: 24/3980 - Thorney Lane

Client: Concept Engineering Consultants	Chemtest Job No.: 24-26070					
Quotation No.: Q24-34527	Chemtest Sample ID.: 1851270					
Order No.: 103269 (CL6154)	Client Sample Ref.: 66					
	Sample Location: BH24-10					
	Sample Type: SOIL					
	Top Depth (m): 0.30					
	Date Sampled: 12-Aug-2024					
Determinand	Accred.	SOP	Type	Units	LOD	
Total Dissolved Solids	N	1020	10:1	mg/l	1.0	73
Chloride	U	1220	10:1	mg/l	1.0	2.2
Fluoride	U	1220	10:1	mg/l	0.050	0.37
Sulphate	U	1220	10:1	mg/l	1.0	11
Arsenic (Dissolved)	U	1455	10:1	µg/l	0.20	2.9
Barium (Dissolved)	U	1455	10:1	µg/l	5.00	16
Cadmium (Dissolved)	U	1455	10:1	µg/l	0.11	< 0.11
Chromium (Dissolved)	U	1455	10:1	µg/l	0.50	< 0.50
Copper (Dissolved)	U	1455	10:1	µg/l	0.50	6.7
Mercury (Dissolved)	U	1455	10:1	µg/l	0.05	< 0.05
Molybdenum (Dissolved)	U	1455	10:1	µg/l	0.20	3.5
Nickel (Dissolved)	U	1455	10:1	µg/l	0.50	4.4
Lead (Dissolved)	U	1455	10:1	µg/l	0.50	2.6
Antimony (Dissolved)	U	1455	10:1	µg/l	0.50	1.7
Selenium (Dissolved)	U	1455	10:1	µg/l	0.50	< 0.50
Zinc (Dissolved)	U	1455	10:1	µg/l	2.5	3.3
Dissolved Organic Carbon	U	1610	10:1	mg/l	2.0	5.7
Total Phenols	U	1920	10:1	mg/l	0.030	< 0.030

Results - Soil

Project: 24/3980 - Thorney Lane

Client: Concept Engineering Consultants		Chemtest Job No.:				24-26070	24-26070	24-26070	24-26070
Quotation No.: Q24-34527		Chemtest Sample ID.:				1851270	1851271	1851272	1851274
Order No.: 103269 (CL6154)		Client Sample Ref.:				66	67	68	70
		Sample Location:				BH24-10	BH24-10	BH24-10	BH24-10
		Sample Type:				SOIL	SOIL	SOIL	SOIL
		Top Depth (m):				0.30	0.90	1.80	4.50
		Date Sampled:				12-Aug-2024	12-Aug-2024	12-Aug-2024	13-Aug-2024
		Asbestos Lab:				DURHAM	DURHAM		
Determinand	HWOL Code	Accred.	SOP	Units	LOD				
ACM Type		U	2192		N/A	-	-		
Asbestos Identification		U	2192		N/A	No Asbestos Detected	No Asbestos Detected		
Moisture		N	2030	%	0.020	14	9.5	9.4	16
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones	Stones	None	Stones
Soil Texture		N	2040		N/A	Clay	Clay	Gravel	Clay
pH at 20C		M	2010		4.0	8.6	8.7	8.8	8.6
Boron (Hot Water Soluble)		M	2120	mg/kg	0.40	0.70	0.61	< 0.40	1.2
Cyanide (Total)		M	2300	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Arsenic		M	2455	mg/kg	0.5	13	21	8.4	9.1
Beryllium		U	2455	mg/kg	0.5	0.7	0.7	< 0.5	1.3
Cadmium		M	2455	mg/kg	0.10	< 0.10	0.21	< 0.10	< 0.10
Chromium		M	2455	mg/kg	0.5	31	22	13	32
Antimony		N	2455	mg/kg	2.0	< 2.0	< 2.0	< 2.0	< 2.0
Copper		M	2455	mg/kg	0.50	30	27	4.7	23
Mercury		M	2455	mg/kg	0.05	0.12	0.09	< 0.05	< 0.05
Nickel		M	2455	mg/kg	0.50	29	28	14	37
Lead		M	2455	mg/kg	0.50	46	140	4.0	16
Selenium		M	2455	mg/kg	0.25	0.62	0.66	< 0.25	1.4
Vanadium		U	2455	mg/kg	0.5	39	33	16	47
Zinc		M	2455	mg/kg	0.50	56	120	14	65
Chromium (Hexavalent)		N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	1.1	< 0.05	< 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	< 0.25	1.1	< 0.25	< 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	< 2.0	180	< 2.0	< 2.0
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	< 1.0	1200	< 1.0	< 1.0
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	< 2.0	1400	3.7	< 2.0
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	10	360	< 3.0	5.5
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	< 10	< 10	< 10	< 10
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	11	3200	< 5.0	5.5
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	11	3200	< 10	< 10
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05

Results - Soil

Project: 24/3980 - Thorney Lane

Client: Concept Engineering Consultants		Chemtest Job No.:				24-26070	24-26070	24-26070	24-26070
Quotation No.: Q24-34527		Chemtest Sample ID.:				1851270	1851271	1851272	1851274
Order No.: 103269 (CL6154)		Client Sample Ref.:				66	67	68	70
		Sample Location:				BH24-10	BH24-10	BH24-10	BH24-10
		Sample Type:				SOIL	SOIL	SOIL	SOIL
		Top Depth (m):				0.30	0.90	1.80	4.50
		Date Sampled:				12-Aug-2024	12-Aug-2024	12-Aug-2024	13-Aug-2024
		Asbestos Lab:				DURHAM	DURHAM		
Determinand	HWOL Code	Accred.	SOP	Units	LOD				
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	44	< 1.0	< 1.0
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	320	< 1.0	< 1.0
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	22	330	3.8	4.0
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	69	5.0	< 2.0	< 2.0
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	12	1.6	< 1.0	< 1.0
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	91	690	5.1	5.3
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	100	700	< 10	< 10
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	< 0.50	1.1	< 0.50	< 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	100	3900	< 10	11
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	110	3900	< 10	11
Total Organic Carbon		M	2625	%	0.20	0.31	0.29	< 0.20	0.67
Dichlorodifluoromethane		U	2760	µg/kg	1.0	< 1.0			
Chloromethane		M	2760	µg/kg	1.0	< 1.0			
Vinyl Chloride		M	2760	µg/kg	1.0	< 1.0			
Bromomethane		M	2760	µg/kg	20	< 20			
Chloroethane		U	2760	µg/kg	2.0	< 2.0			
Trichlorofluoromethane		M	2760	µg/kg	1.0	< 1.0			
1,1-Dichloroethene		M	2760	µg/kg	1.0	< 1.0			
Dichloromethane		N	2760	µg/kg	50	< 50			
Trans 1,2-Dichloroethene		M	2760	µg/kg	1.0	< 1.0			
1,1-Dichloroethane		M	2760	µg/kg	1.0	< 1.0			
cis 1,2-Dichloroethene		M	2760	µg/kg	1.0	< 1.0			
Bromochloromethane		U	2760	µg/kg	5.0	< 5.0			
Trichloromethane		M	2760	µg/kg	1.0	< 1.0			
1,1,1-Trichloroethane		M	2760	µg/kg	1.0	< 1.0			
Tetrachloromethane		M	2760	µg/kg	1.0	< 1.0			
1,1-Dichloropropene		U	2760	µg/kg	1.0	< 1.0			
Benzene		M	2760	mg/kg	0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
Benzene		M	2760	µg/kg	1.0	< 1.0			
1,2-Dichloroethane		M	2760	µg/kg	2.0	< 2.0			
Trichloroethene		N	2760	µg/kg	1.0	< 1.0			
1,2-Dichloropropane		M	2760	µg/kg	1.0	< 1.0			
Dibromomethane		M	2760	µg/kg	1.0	< 1.0			
Bromodichloromethane		M	2760	µg/kg	5.0	< 5.0			

Results - Soil

Project: 24/3980 - Thorney Lane

Client: Concept Engineering Consultants		Chemtest Job No.:				24-26070	24-26070	24-26070	24-26070
Quotation No.: Q24-34527		Chemtest Sample ID.:				1851270	1851271	1851272	1851274
Order No.: 103269 (CL6154)		Client Sample Ref.:				66	67	68	70
		Sample Location:				BH24-10	BH24-10	BH24-10	BH24-10
		Sample Type:				SOIL	SOIL	SOIL	SOIL
		Top Depth (m):				0.30	0.90	1.80	4.50
		Date Sampled:				12-Aug-2024	12-Aug-2024	12-Aug-2024	13-Aug-2024
		Asbestos Lab:				DURHAM	DURHAM		
Determinand	HWOL Code	Accred.	SOP	Units	LOD				
cis-1,3-Dichloropropene		N	2760	µg/kg	10	< 10			
Toluene		M	2760	mg/kg	0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
Toluene		M	2760	µg/kg	1.0	< 1.0			
Trans-1,3-Dichloropropene		N	2760	µg/kg	10	< 10			
1,1,2-Trichloroethane		M	2760	µg/kg	10	< 10			
Tetrachloroethene		M	2760	µg/kg	1.0	< 1.0			
1,3-Dichloropropane		U	2760	µg/kg	2.0	< 2.0			
Dibromochloromethane		U	2760	µg/kg	10	< 10			
1,2-Dibromoethane		M	2760	µg/kg	5.0	< 5.0			
Chlorobenzene		M	2760	µg/kg	1.0	< 1.0			
1,1,1,2-Tetrachloroethane		M	2760	µg/kg	2.0	< 2.0			
Ethylbenzene		M	2760	mg/kg	0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
Ethylbenzene		M	2760	µg/kg	1.0	< 1.0			
m & p-Xylene		M	2760	mg/kg	0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
m & p-Xylene		M	2760	µg/kg	1.0	< 1.0			
o-Xylene		M	2760	mg/kg	0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
o-Xylene		M	2760	µg/kg	1.0	< 1.0			
Styrene		M	2760	µg/kg	1.0	< 1.0			
Tribromomethane		U	2760	µg/kg	1.0	< 1.0			
Isopropylbenzene		M	2760	µg/kg	1.0	< 1.0			
Bromobenzene		M	2760	µg/kg	1.0	< 1.0			
1,2,3-Trichloropropane		N	2760	µg/kg	50	< 50			
N-Propylbenzene		U	2760	µg/kg	1.0	< 1.0			
2-Chlorotoluene		M	2760	µg/kg	1.0	< 1.0			
1,3,5-Trimethylbenzene		M	2760	µg/kg	1.0	< 1.0			
4-Chlorotoluene		U	2760	µg/kg	1.0	< 1.0			
Tert-Butylbenzene		U	2760	µg/kg	1.0	< 1.0			
1,2,4-Trimethylbenzene		M	2760	µg/kg	1.0	< 1.0			
Sec-Butylbenzene		U	2760	µg/kg	1.0	< 1.0			
1,3-Dichlorobenzene		M	2760	µg/kg	1.0	< 1.0			
4-Isopropyltoluene		U	2760	µg/kg	1.0	< 1.0			
1,4-Dichlorobenzene		M	2760	µg/kg	1.0	< 1.0			
N-Butylbenzene		U	2760	µg/kg	1.0	< 1.0			
1,2-Dichlorobenzene		M	2760	µg/kg	1.0	< 1.0			
1,2-Dibromo-3-Chloropropane		U	2760	µg/kg	50	< 50			
1,2,4-Trichlorobenzene		M	2760	µg/kg	1.0	< 1.0			
Hexachlorobutadiene		N	2760	µg/kg	1.0	< 1.0			

Results - Soil

Project: 24/3980 - Thorney Lane

Client: Concept Engineering Consultants		Chemtest Job No.:				24-26070	24-26070	24-26070	24-26070
Quotation No.: Q24-34527		Chemtest Sample ID.:				1851270	1851271	1851272	1851274
Order No.: 103269 (CL6154)		Client Sample Ref.:				66	67	68	70
		Sample Location:				BH24-10	BH24-10	BH24-10	BH24-10
		Sample Type:				SOIL	SOIL	SOIL	SOIL
		Top Depth (m):				0.30	0.90	1.80	4.50
		Date Sampled:				12-Aug-2024	12-Aug-2024	12-Aug-2024	13-Aug-2024
		Asbestos Lab:				DURHAM	DURHAM		
Determinand	HWOL Code	Accred.	SOP	Units	LOD				
1,2,3-Trichlorobenzene		U	2760	µg/kg	2.0	< 2.0			
Methyl Tert-Butyl Ether		M	2760	mg/kg	0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
Methyl Tert-Butyl Ether		M	2760	µg/kg	1.0	< 1.0			
N-Nitrosodimethylamine		M	2790	mg/kg	0.50	< 0.50			
Phenol		M	2790	mg/kg	0.50	< 0.50			
2-Chlorophenol		N	2790	mg/kg	0.50	< 0.50			
Bis-(2-Chloroethyl)Ether		M	2790	mg/kg	0.50	< 0.50			
1,3-Dichlorobenzene		M	2790	mg/kg	0.50	< 0.50			
1,4-Dichlorobenzene		N	2790	mg/kg	0.50	< 0.50			
1,2-Dichlorobenzene		M	2790	mg/kg	0.50	< 0.50			
2-Methylphenol		M	2790	mg/kg	0.50	< 0.50			
Bis(2-Chloroisopropyl)Ether		M	2790	mg/kg	0.50	< 0.50			
Hexachloroethane		N	2790	mg/kg	0.50	< 0.50			
N-Nitrosodi-n-propylamine		M	2790	mg/kg	0.50	< 0.50			
4-Methylphenol		M	2790	mg/kg	0.50	< 0.50			
Nitrobenzene		N	2790	mg/kg	0.50	< 0.50			
Isophorone		M	2790	mg/kg	0.50	< 0.50			
2-Nitrophenol		N	2790	mg/kg	0.50	< 0.50			
2,4-Dimethylphenol		N	2790	mg/kg	0.50	< 0.50			
Bis(2-Chloroethoxy)Methane		M	2790	mg/kg	0.50	< 0.50			
2,4-Dichlorophenol		N	2790	mg/kg	0.50	< 0.50			
1,2,4-Trichlorobenzene		M	2790	mg/kg	0.50	< 0.50			
Naphthalene		M	2790	mg/kg	0.50	< 0.50			
4-Chloroaniline		N	2790	mg/kg	0.50	< 0.50			
Hexachlorobutadiene		M	2790	mg/kg	0.50	< 0.50			
4-Chloro-3-Methylphenol		N	2790	mg/kg	0.50	< 0.50			
2-Methylnaphthalene		M	2790	mg/kg	0.50	< 0.50			
4-Nitrophenol		N	2790	mg/kg	0.50	< 0.50			
2,4,6-Trichlorophenol		N	2790	mg/kg	0.50	< 0.50			
2,4,5-Trichlorophenol		N	2790	mg/kg	0.50	< 0.50			
2-Chloronaphthalene		M	2790	mg/kg	0.50	< 0.50			
2-Nitroaniline		N	2790	mg/kg	0.50	< 0.50			
Acenaphthylene		M	2790	mg/kg	0.50	< 0.50			
Dimethylphthalate		M	2790	mg/kg	0.50	< 0.50			
2,6-Dinitrotoluene		N	2790	mg/kg	0.50	< 0.50			
Acenaphthene		M	2790	mg/kg	0.50	< 0.50			
3-Nitroaniline		N	2790	mg/kg	0.50	< 0.50			

Results - Soil

Project: 24/3980 - Thorney Lane

Client: Concept Engineering Consultants		Chemtest Job No.:				24-26070	24-26070	24-26070	24-26070
Quotation No.: Q24-34527		Chemtest Sample ID.:				1851270	1851271	1851272	1851274
Order No.: 103269 (CL6154)		Client Sample Ref.:				66	67	68	70
		Sample Location:				BH24-10	BH24-10	BH24-10	BH24-10
		Sample Type:				SOIL	SOIL	SOIL	SOIL
		Top Depth (m):				0.30	0.90	1.80	4.50
		Date Sampled:				12-Aug-2024	12-Aug-2024	12-Aug-2024	13-Aug-2024
		Asbestos Lab:				DURHAM	DURHAM		
Determinand	HWOL Code	Accred.	SOP	Units	LOD				
Dibenzofuran		M	2790	mg/kg	0.50	< 0.50			
4-Chlorophenylphenylether		M	2790	mg/kg	0.50	< 0.50			
2,4-Dinitrotoluene		N	2790	mg/kg	0.50	< 0.50			
Fluorene		M	2790	mg/kg	0.50	< 0.50			
Diethyl Phthalate		M	2790	mg/kg	0.50	< 0.50			
4-Nitroaniline		N	2790	mg/kg	0.50	< 0.50			
Azobenzene		M	2790	mg/kg	0.50	< 0.50			
4-Bromophenylphenyl Ether		M	2790	mg/kg	0.50	< 0.50			
Hexachlorobenzene		M	2790	mg/kg	0.50	< 0.50			
Phenanthrene		M	2790	mg/kg	0.50	2.4			
Anthracene		M	2790	mg/kg	0.50	< 0.50			
Carbazole		M	2790	mg/kg	0.50	< 0.50			
Di-N-Butyl Phthalate		N	2790	mg/kg	0.50	< 0.50			
Fluoranthene		M	2790	mg/kg	0.50	6.2			
Pyrene		M	2790	mg/kg	0.50	5.7			
Butylbenzyl Phthalate		N	2790	mg/kg	0.50	< 0.50			
Benzo[a]anthracene		M	2790	mg/kg	0.50	3.3			
Chrysene		M	2790	mg/kg	0.50	3.4			
Bis(2-Ethylhexyl)Phthalate		N	2790	mg/kg	0.50	< 0.50			
Di-N-Octyl Phthalate		N	2790	mg/kg	0.50	< 0.50			
Benzo[b]fluoranthene		M	2790	mg/kg	0.50	4.4			
Benzo[k]fluoranthene		M	2790	mg/kg	0.50	1.5			
Benzo[a]pyrene		M	2790	mg/kg	0.50	3.5			
Indeno(1,2,3-c,d)Pyrene		N	2790	mg/kg	0.50	1.4			
Dibenz(a,h)Anthracene		N	2790	mg/kg	0.50	< 0.50			
Benzo[g,h,i]perylene		M	2790	mg/kg	0.50	2.3			
Naphthalene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Anthracene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluoranthene		M	2800	mg/kg	0.10	0.44	< 0.10	< 0.10	< 0.10
Pyrene		M	2800	mg/kg	0.10	0.51	< 0.10	< 0.10	< 0.10
Benzo[a]anthracene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chrysene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10

Results - Soil

Project: 24/3980 - Thorney Lane

Client: Concept Engineering Consultants		Chemtest Job No.:		24-26070	24-26070	24-26070	24-26070		
Quotation No.: Q24-34527		Chemtest Sample ID.:		1851270	1851271	1851272	1851274		
Order No.: 103269 (CL6154)		Client Sample Ref.:		66	67	68	70		
		Sample Location:		BH24-10	BH24-10	BH24-10	BH24-10		
		Sample Type:		SOIL	SOIL	SOIL	SOIL		
		Top Depth (m):		0.30	0.90	1.80	4.50		
		Date Sampled:		12-Aug-2024	12-Aug-2024	12-Aug-2024	13-Aug-2024		
		Asbestos Lab:		DURHAM	DURHAM				
Determinand	HWOL Code	Accred.	SOP	Units	LOD				
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]pyrene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Of 16 PAH's		N	2800	mg/kg	2.0	< 2.0	< 2.0	< 2.0	< 2.0
PCB 81		N	2815	mg/kg	0.010	< 0.010	< 0.010		
PCB 77		U	2815	mg/kg	0.010	< 0.010	< 0.010		
PCB 105		N	2815	mg/kg	0.010	< 0.010	< 0.010		
PCB 114		N	2815	mg/kg	0.010	< 0.010	< 0.010		
PCB 118		N	2815	mg/kg	0.010	< 0.010	< 0.010		
PCB 123		N	2815	mg/kg	0.010	< 0.010	< 0.010		
PCB 126		N	2815	mg/kg	0.010	< 0.010	< 0.010		
PCB 156		N	2815	mg/kg	0.010	< 0.010	< 0.010		
PCB 157		N	2815	mg/kg	0.010	< 0.010	< 0.010		
PCB 167		N	2815	mg/kg	0.010	< 0.010	< 0.010		
PCB 169		N	2815	mg/kg	0.010	< 0.010	< 0.010		
PCB 189		N	2815	mg/kg	0.010	< 0.010	< 0.010		
Total PCBs (12 Congeners)		N	2815	mg/kg	0.12	< 0.12	< 0.12		
Total Phenols		M	2920	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
PFAS Suite Soils		SN		µg/kg	0.0	See Attached		See Attached	See Attached

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
1020	Electrical Conductivity and Total Dissolved Solids (TDS) in Waters	Electrical Conductivity at 25°C and Total Dissolved Solids (TDS) in Waters	Conductivity Meter	
1220	Anions, Alkalinity & Ammonium in Waters	Fluoride; Chloride; Nitrite; Nitrate; Total; Oxidisable Nitrogen (TON); Sulfate; Phosphate; Alkalinity; Ammonium	Automated colorimetric analysis using 'Aquakem 600' Discrete Analyser.	
1455	Metals in Waters by ICP-MS	Metals, including: Antimony; Arsenic; Barium; Beryllium; Boron; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Tin; Vanadium; Zinc	Filtration of samples followed by direct determination by inductively coupled plasma mass spectrometry (ICP-MS).	
1610	Total/Dissolved Organic Carbon in Waters	Organic Carbon	TOC Analyser using Catalytic Oxidation	
1920	Phenols in Waters by HPLC	Phenolic compounds including: Phenol, Cresols, Xylenols, Trimethylphenols Note: Chlorophenols are excluded.	Determination by High Performance Liquid Chromatography (HPLC) using electrochemical detection.	
2010	pH Value of Soils	pH at 20°C	pH Meter	
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <30°C.	
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930	
2120	Water Soluble Boron, Sulphate, Magnesium & Chromium	Boron; Sulphate; Magnesium; Chromium	Aqueous extraction / ICP-OES	
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry	
2300	Cyanides & Thiocyanate in Soils	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Alkaline extraction followed by colorimetric determination using Automated Flow Injection Analyser.	
2455	Acid Soluble Metals in Soils	Metals, including: Arsenic; Barium; Beryllium; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Vanadium; Zinc	Acid digestion followed by determination of metals in extract by ICP-MS.	
2490	Hexavalent Chromium in Soils	Chromium [VI]	Soil extracts are prepared by extracting dried and ground soil samples into boiling water. Chromium [VI] is determined by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazine.	
2625	Total Organic Carbon in Soils	Total organic Carbon (TOC)	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.	
2690	EPH A/A Split	Aliphatics: >C10-C12, >C12-C16, >C16-C21, >C21- C35, >C35- C40 Aromatics: >C10-C12, >C12-C16, >C16-C21, >C21- C35, >C35- C40	Acetone/Heptane extraction / GCxGC FID detection	
2760	Volatile Organic Compounds (VOCs) in Soils by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics.(cf. USEPA Method 8260)*please refer to UKAS schedule	Automated headspace gas chromatographic (GC) analysis of a soil sample, as received, with mass spectrometric (MS) detection of volatile organic compounds.	
2780	VPH A/A Split	Aliphatics: >C5-C6, >C6-C7,>C7-C8,>C8-C10 Aromatics: >C5-C7,>C7-C8,>C8-C10	Water extraction / Headspace GCxGC FID detection	
2790	Semi-Volatile Organic Compounds (SVOCs) in Soils by GC-MS	Semi-volatile organic compounds(cf. USEPA Method 8270)	Acetone/Hexane extraction / GC-MS	
2800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-MS	Acenaphthene*; Acenaphthylene; Anthracene*; Benzo[a]Anthracene*; Benzo[a]Pyrene*; Benzo[b]Fluoranthene*; Benzo[ghi]Perylene*; Benzo[k]Fluoranthene; Chrysene*; Dibenz[ah]Anthracene; Fluoranthene*; Fluorene*; Indeno[123cd]Pyrene*; Naphthalene*; Phenanthrene*; Pyrene*	Dichloromethane extraction / GC-MS	

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
2810	Polychlorinated Biphenyls (PCB) as Aroclors in Soils by GC-ECD	Polychlorinated Biphenyls expressed as an Aroclor (normally reported as *Aroclor 1242)	Extraction of a soil sample, as received, into hexane/acetone (50:50) followed by gas chromatography (GC) using mass spectrometric (MS) detection for identification of polychlorinated biphenyls and electron capture detection (ECD) for quantitation if present.	
2815	Polychlorinated Biphenyls (PCB) ICES7Congeners in Soils by GC-MS	ICES7 PCB congeners	Acetone/Hexane extraction / GC-MS. Reported PCB 101 results may contain contributions from PCB 90 due to inseparable chromatography.	
2920	Phenols in Soils by HPLC	Phenolic compounds including Resorcinol, Phenol, Methylphenols, Dimethylphenols, 1-Naphthol and Trimethylphenols Note: chlorophenols are excluded.	60:40 methanol/water mixture extraction, followed by HPLC determination using electrochemical detection.	
640	Characterisation of Waste (Leaching C10)	Waste material including soil, sludges and granular waste	Compliance Test for Leaching of Granular Waste Material and Sludge	

Report Information

Key

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

This report shall not be reproduced except in full, and only with the prior approval of the laboratory.

Any comments or interpretations are outside the scope of UKAS accreditation.

The Laboratory is not accredited for any sampling activities and reported results relate to the samples 'as received' at the laboratory.

Uncertainty of measurement for the determinands tested are available upon request .

None of the results in this report have been recovery corrected.

All results are expressed on a dry weight basis.

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

For all other tests the samples were dried at $\leq 30^{\circ}\text{C}$ prior to analysis.

All Asbestos testing is performed at the indicated laboratory .

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

Sample Deviation Codes

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

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt.

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

Charges may apply to extended sample storage.

Water Sample Category Key for Accreditation

- DW - Drinking Water
- GW - Ground Water
- LE - Land Leachate
- NA - Not Applicable

Report Information

PL - Prepared Leachate
PW - Processed Water
RE - Recreational Water
SA - Saline Water
SW - Surface Water
TE - Treated Effluent
TS - Treated Sewage
UL - Unspecified Liquid

Clean Up Codes

NC - No Clean Up
MC - Mathematical Clean Up
FC - Florisil Clean Up

HWOL Acronym System

HS - Headspace analysis
EH - Extractable hydrocarbons – i.e. everything extracted by the solvent
CU - Clean-up – e.g. by Florisil, silica gel
1D - GC – Single coil gas chromatography
Total - Aliphatics & Aromatics
AL - Aliphatics only
AR - Aromatic only
2D - GC-GC – Double coil gas chromatography
#1 - EH_2D_Total but with humics mathematically subtracted
#2 - EH_2D_Total but with fatty acids mathematically subtracted
+ - Operator to indicate cumulative e.g. EH+EH_Total or EH_CU+HS_Total

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

CERTIFICATE

Project code : 1787753
Your Project Description : 24-26070
Client : Eurofins Chemtest Ltd

Your Sample identification
8385011 = 1851270 BH24-10-0.30
8385012 = 1851272 BH24-10-1.80
8385013 = 1851274 BH24-10-4.50

Client sampling date	:	12/08/2024	12/08/2024	13/08/2024
Date of receipt	:	19/08/2024	19/08/2024	19/08/2024
Startdate	:	19/08/2024	19/08/2024	19/08/2024
Reference number	:	8385011	8385012	8385013
Your Matrix	:	Soil	Soil	Soil

Sample preparation				
S AS3000 (steekmonster)		done	done	done
cryogenic grinding			grinded	
S sample preparation		done	done	done

General analysis - physics				
S dry weight	%	83,1	95,2	80,8

- The frontpage and, where applicable, appendices of this document are integral parts of this certificate.
 - Analyses marked with a 'Q' are part of the RvA accreditation certificate L086.
 - Analyses marked with a 'S' are part of the AS 3000 accreditation certificate.
 Verificationcode: ZPVO-PVCX-KSXN-CGFY

CERTIFICATE

Project code : 1787753
Your Project Description : 24-26070
Client : Eurofins Chemtest Ltd

Your Sample identification

8385011 = 1851270 BH24-10-0.30
8385012 = 1851272 BH24-10-1.80
8385013 = 1851274 BH24-10-4.50

Client sampling date	:	12/08/2024	12/08/2024	13/08/2024
Date of receipt	:	19/08/2024	19/08/2024	19/08/2024
Startdate	:	19/08/2024	19/08/2024	19/08/2024
Reference number	:	8385011	8385012	8385013
Your Matrix	:	Soil	Soil	Soil

Organic compounds - per- and polyfluoroalkylsubstances (PFAS) HPLC-MS/MS
Perfluorinated carboxylic acids:

Q PFBA	µg/kg dw	< 0,1	< 0,1	< 0,1
Q PFPeA	µg/kg dw	< 0,1	< 0,1	< 0,1
Q PFHxA	µg/kg dw	< 0,1	< 0,1	< 0,1
Q PFHpA	µg/kg dw	< 0,1	< 0,1	< 0,1
Q PFOA linear	µg/kg dw	0,3	< 0,1	0,3
Q PFOA branched	µg/kg dw	< 0,1	< 0,1	< 0,1
Q PFNA	µg/kg dw	< 0,1	< 0,1	< 0,1
Q PFDA	µg/kg dw	0,1	< 0,1	< 0,1
Q PFUnDA	µg/kg dw	< 0,1	< 0,1	< 0,1
Q PFDoDA	µg/kg dw	< 0,1	< 0,1	< 0,1
Q PFTTrDA	µg/kg dw	< 0,1	< 0,1	< 0,1
Q PFTeDA	µg/kg dw	< 0,1	< 0,1	< 0,1
Q PFHxDA	µg/kg dw	< 0,1	< 0,1	< 0,1
Q PFODA	µg/kg dw	< 0,1	< 0,1	< 0,1

Perfluorinated sulfonic acids:

Q PFBS	µg/kg dw	< 0,1	< 0,1	< 0,1
Q PFPeS	µg/kg dw	< 0,1	< 0,1	< 0,1
Q PFHxS	µg/kg dw	< 0,1	< 0,1	0,3
Q PFHpS	µg/kg dw	< 0,1	< 0,1	< 0,1
Q PFOS linear	µg/kg dw	0,5	< 0,1	2,0
Q PFOS branched	µg/kg dw	< 0,1	< 0,1	0,3
Q PFDS	µg/kg dw	< 0,1	< 0,1	< 0,1

Perfluorinated alkyl substances - precursors:

Q 4:2 FTS	µg/kg dw	< 0,1	< 0,1	< 0,1
Q 6:2 FTS	µg/kg dw	< 0,1	< 0,1	< 0,1
Q 8:2 FTS	µg/kg dw	< 0,1	< 0,1	< 0,1
Q 10:2 FTS	µg/kg dw	< 0,1	< 0,1	< 0,1
Q PFOSA	µg/kg dw	< 0,1	< 0,1	< 0,1

Perfluorinated alkyl substances - remainder:

HPFHpA	µg/kg dw	< 0,4	< 0,4	< 0,4
4H-PFUnDA	µg/kg dw	< 0,4	< 0,4	< 0,4
8:2 FTUCA	µg/kg dw	< 0,4	< 0,4	< 0,4
Q 9Cl-PF3ONS (F53-B)	µg/kg dw	< 0,1	< 0,1	< 0,1
Q ADONA	µg/kg dw	< 0,1	< 0,1	< 0,1
Q EtFOSA	µg/kg dw	< 0,1	< 0,1	< 0,1
Q EtFOSAA	µg/kg dw	< 0,1	< 0,1	< 0,1
MeFBSA	µg/kg dw	< 0,4	< 0,4	< 0,4
Q MeFOSAA	µg/kg dw	< 0,1	< 0,1	< 0,1
Q P37DMOA	µg/kg dw	< 1	< 1	< 1
Q PFBSA	µg/kg dw	< 0,1	< 0,1	< 0,1
Q MeFOSA	µg/kg dw	< 0,1	< 0,1	< 0,1
Q MeFBSAA	µg/kg dw	< 0,1	< 0,1	< 0,1
Q 8:2 DiPAP	µg/kg dw	< 0,1	< 0,1	< 0,1
sum PFOA	µg/kg dw	0,4	0,1	0,4
sum PFOS	µg/kg dw	0,6	0,1	2,3

- The frontpage and, where applicable, appendices of this document are integral parts of this certificate.

- Analyses marked with a 'Q' are part of the RvA accreditation certificate L086.

- Analyses marked with a 'S' are part of the AS 3000 accreditation certificate.

Verificationcode: ZPVO-PVCX-KSXN-CGFY

Ref.: 1787753_certificaat_v1

C E R T I F I C A T E

Project code : 1787753
Your Project Description : 24-26070
Client : Eurofins Chemtest Ltd

Notes related to analyses

General comments

The following information has been provided by the client if applicable:
 Project description, Sample identificaton, Client sampling date, Client Matrix, Sample depth, Pot number (Barcode), Field data, Field observations and sampling data. The client sampling date can affect the validity of the results.

Quantification of branched PFOS/POA is based on DIN 38414-14.

Summation of concentrations for group parameters

Summation is calculated according to AS3000 protocol, paragraph 2.5.2 and appendix 3.

CERTIFICATE

Project code : 1787753
Your Project Description : 24-26070
Client : Eurofins Chemtest Ltd

Appendix Index PFAS

PFAS component	Full name PFAS component
10:2 FTS	10:2 FTS (10:2 Fluorotelomer sulfonic acid)
4:2 FTS	4:2 FTS (4:2 Fluorotelomer sulfonic acid)
4H-PFUnDA	4H-PFUnDA (2H,2H,3H,3H-Perfluoroundecanoic acid)
6:2 FTS	6:2 FTS (6:2 Fluorotelomer sulfonic acid)
8:2 DiPAP	8:2 DiPAP (8:2 Fluorotelomer phosphate diester)
8:2 FTS	8:2 FTS (8:2 Fluorotelomer sulfonic acid)
8:2 FTUCA	8:2 FTUCA (8:2 Fluorotelomer unsaturated carboxylic acid)
9Cl-PF3ONS (F53-B)	9Cl-PF3ONS (F53-B) (9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid)
ADONA	ADONA (ammonium 4,8-dioxa-3H-perfluorononanoate)
EtFOSA	EtFOSA (N-ethyl perfluorooctanesulfonamide)
EtFOSAA	EtFOSAA (perfluorooctanesulfonylamide(N-ethyl)acetate)
HPFHpA	HPFHpA (7H-perfluoroheptanoic acid)
MeFBSA	MeFBSA (N-methylperfluorobutanesulfonylamide)
MeFBSAA	MeFBSAA (perfluorobutanesulfonylamide(N-methyl)acetate)
MeFOSA	MeFOSA (N-methyl perfluorooctanesulfonamide)
MeFOSAA	MeFOSAA (N-methyl perfluorooctanesulfonamidoacetic acid)
P37DMOA	P37DMOA (perfluoro-3,7-dimethyloctanoic acid)
PFBA	PFBA (perfluorobutanoic acid)
PFBS	PFBS (perfluorobutanesulfonic acid)
PFBSA	PFBSA (perfluorobutanesulfonamide)
PFDA	PFDA (perfluorodecanoic acid)
PFDoDA	PFDoDA (perfluorododecanoic acid)
PFDS	PFDS (perfluorodecanesulfonic acid)
PFHpA	PFHpA (perfluoroheptanoic acid)
PFHpS	PFHpS (perfluoroheptanesulfonic acid)
PFHxA	PFHxA (perfluorohexanoic acid)
PFHxDA	PFHxDA (perfluorohexadecanoic acid)
PFHxS	PFHxS (perfluorohexanesulfonic acid)
PFNA	PFNA (perfluorononanoic acid)
PFOA branched	PFOA branched (perfluorooctanoic acid)
PFOA linear	PFOA lineair (perfluorooctanoic acid)
PFODA	PFODA (perfluorooctadecanoic acid)
PFOS branched	PFOS branched (perfluorooctanesulfonic acid)
PFOS linear	PFOS lineair (perfluorooctanesulfonic acid)
PFOSA	PFOSA (perfluorooctanesulfonamide)
PFPeA	PFPeA (perfluoropentanoic acid)
PFPeS	PFPeS (perfluoropentanesulfonic acid)
PFTeDA	PFTeDA (perfluorotetradecanoic acid)
PFTrDA	PFTrDA (perfluorotridecanoic acid)
PFUnDA	PFUnDA (perfluoroundecanoic acid)

C E R T I F I C A T E

Project code : 1787753
Your Project Description : 24-26070
Client : Eurofins Chemtest Ltd

Methodology Soil (AS3000)

AS3000

In dit analysecertificaat zijn de met 'S' gemerkte analyses uitgevoerd volgens de analysemethoden beschreven in het "Accreditatieschema Laboratoriumanalyses voor grond-, waterbodem- en grondwateronderzoek (AS SIKB 3000)". Het laboratoriumonderzoek is uitgevoerd volgens de onderstaande analysemethoden. Deze analyses zijn vastgelegd in het geldende accreditatie-certificaat met bijbehorende verrichtingenlijst L086 van Eurofins Omegam BV.

Samplemate : Conform AS3000 en NEN-EN 16179
Dry weight : Conform AS3010 prestatieblad 2

In this certificate of analysis, the analysis marked with 'Q' have been carried out according to the analysis methods below. The analysis are registrated in the current accreditation certificate with associated annex to declaration of accreditation (scope of accreditation) L086 of Eurofins Omegam BV.

PFAS : In house method

- The frontpage and, where applicable, appendices of this document are integral parts of this certificate.



Final Report

Report No.: 24-27750-1

Initial Date of Issue: 04-Sep-2024

Re-Issue Details:

Client Concept Engineering Consultants

Client Address: 47 - 49 Brunel Road
London
W3 7XR

Contact(s): Gabriela Mandache
Kasia Mazerant
Lab

Project 24/3980 Thorney Lane

Quotation No.: Q24-34527 **Date Received:** 29-Aug-2024

Order No.: 103398 (CL6191) **Date Instructed:** 29-Aug-2024

No. of Samples: 6

Turnaround (Wkdays): 5 **Results Due:** 04-Sep-2024

Date Approved: 04-Sep-2024

Approved By:

Details: David Smith, Technical Director

For details about application of accreditation to specific matrix types, please refer to the Table at the back of this report

Results - Water

Project: 24/3980 Thorney Lane

Client: Concept Engineering Consultants		Chemtest Job No.:						24-27750	24-27750	24-27750	24-27750	24-27750	24-27750
Quotation No.: Q24-34527		Chemtest Sample ID.:						1858229	1858230	1858231	1858232	1858233	1858234
		Sample Location:						DS24-03	BH24-06	BH24-05	DS24-01	DS107(3)	BH24-10
		Sample Type:						WATER	WATER	WATER	WATER	WATER	WATER
		Sample Sub Type:											
		Date Sampled:						27-Aug-2024	27-Aug-2024	27-Aug-2024	27-Aug-2024	27-Aug-2024	27-Aug-2024
Determinand	HWOL Code	Accred.	SOP	Units	LOD								
pH at 20C		U	1010		4.0	7.6	8.2	10.1	7.9	7.7	8.1		
Chloride		U	1220	mg/l	1.0	81	87	38	270	59	160		
Ammonia (Free)		N	1220	mg/l	0.050	< 0.050	0.21	1.8	< 0.050	< 0.050	< 0.050		
Ammoniacal Nitrogen		U	1220	mg/l	0.050	0.93	2.7	2.1	0.17	0.086	0.078		
Cyanide (Total)		U	1300	mg/l	0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050		
Calcium (Dissolved)		U	1455	mg/l	2.00	150	89	44	100	490	87		
Total Hardness as CaCO3		U	1270	mg/l	15	450	270	110	370	1500	240		
Arsenic (Dissolved)		U	1455	µg/l	0.20	0.26	6.7	13	2.1	1.1	< 0.20		
Beryllium (Dissolved)		U	1455	µg/l	1.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		
Cadmium (Dissolved)		U	1455	µg/l	0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	0.16		
Chromium (Dissolved)		U	1455	µg/l	0.50	3.1	2.4	0.86	4.2	2.2	1.0		
Copper (Dissolved)		U	1455	µg/l	0.50	2.8	1.6	7.9	5.3	< 0.50	0.99		
Mercury (Dissolved)		U	1455	µg/l	0.05	< 0.05	< 0.05	0.29	< 0.05	< 0.05	< 0.05		
Manganese (Dissolved)		U	1455	µg/l	0.50	4900	1900	7.4	37	1200	960		
Nickel (Dissolved)		U	1455	µg/l	0.50	11	8.7	14	5.7	17	67		
Lead (Dissolved)		U	1455	µg/l	0.50	< 0.50	< 0.50	0.61	< 0.50	< 0.50	< 0.50		
Antimony (Dissolved)		U	1455	µg/l	0.50	< 0.50	< 0.50	1.9	1.5	< 0.50	< 0.50		
Selenium (Dissolved)		U	1455	µg/l	0.50	3.2	1.6	5.0	110	3.1	3.0		
Vanadium (Dissolved)		U	1455	µg/l	0.50	< 0.50	< 0.50	59	< 0.50	< 0.50	< 0.50		
Zinc (Dissolved)		U	1455	µg/l	2.5	3.8	2.5	2.9	3.1	6.9	4.9		
Chromium (Hexavalent)		U	1490	µg/l	20	< 20	< 20	< 20	< 20	< 20	< 20		
Dissolved Organic Carbon		U	1610	mg/l	2.0	11	12	19	7.1	6.4	6.5		
Aliphatic TPH >C5-C6	EH_2D_AL_#1	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10		
Aliphatic TPH >C6-C8	EH_2D_AL_#1	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10		
Aliphatic TPH >C8-C10	EH_2D_AL_#1	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10		
Aliphatic TPH >C10-C12	EH_2D_AL_#1	N	1675	µg/l	0.10	< 0.10	< 0.10	60	< 0.10	< 0.10	100		
Aliphatic TPH >C12-C16	EH_2D_AL_#1	N	1675	µg/l	0.10	< 0.10	< 0.10	23	< 0.10	< 0.10	550		
Aliphatic TPH >C16-C21	EH_2D_AL_#1	N	1675	µg/l	0.10	< 0.10	< 0.10	120	< 0.10	< 0.10	540		
Aliphatic TPH >C21-C35	EH_2D_AL_#1	N	1675	µg/l	0.10	< 0.10	< 0.10	130	< 0.10	< 0.10	97		
Aliphatic TPH >C35-C44	EH_2D_AL_#1	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10		
Total Aliphatic Hydrocarbons	EH_2D_AL_#1	N	1675	µg/l	5.0	< 5.0	< 5.0	330	< 5.0	< 5.0	1300		
Aromatic TPH >C5-C7	EH_2D_AR_#1	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10		
Aromatic TPH >C7-C8	EH_2D_AR_#1	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10		
Aromatic TPH >C8-C10	EH_2D_AR_#1	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10		
Aromatic TPH >C10-C12	EH_2D_AR_#1	N	1675	µg/l	0.10	< 0.10	< 0.10	14	< 0.10	< 0.10	43		
Aromatic TPH >C12-C16	EH_2D_AR_#1	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	260		
Aromatic TPH >C16-C21	EH_2D_AR_#1	N	1675	µg/l	0.10	< 0.10	< 0.10	28	< 0.10	< 0.10	300		
Aromatic TPH >C21-C35	EH_2D_AR_#1	N	1675	µg/l	0.10	< 0.10	< 0.10	16	< 0.10	< 0.10	18		
Aromatic TPH >C35-C44	EH_2D_AR_#1	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10		

Results - Water

Project: 24/3980 Thorney Lane

Client: Concept Engineering Consultants		Chemtest Job No.:						24-27750	24-27750	24-27750	24-27750	24-27750	24-27750
Quotation No.: Q24-34527		Chemtest Sample ID.:						1858229	1858230	1858231	1858232	1858233	1858234
		Sample Location:						DS24-03	BH24-06	BH24-05	DS24-01	DS107(3)	BH24-10
		Sample Type:						WATER	WATER	WATER	WATER	WATER	WATER
		Sample Sub Type:											
		Date Sampled:						27-Aug-2024	27-Aug-2024	27-Aug-2024	27-Aug-2024	27-Aug-2024	27-Aug-2024
Determinand	HWOL Code	Accred.	SOP	Units	LOD								
Total Aromatic Hydrocarbons	EH_2D_AR_#1	N	1675	µg/l	5.0	< 5.0	< 5.0	58	< 5.0	< 5.0	620		
Total Petroleum Hydrocarbons	EH_2D_Total_#1	N	1675	µg/l	10	< 10	< 10	390	< 10	< 10	1900		
Dichlorodifluoromethane		U	1760	µg/l	1.0					< 1.0			
Chloromethane		U	1760	µg/l	1.0					< 1.0			
Vinyl Chloride		N	1760	µg/l	1.0					< 1.0			
Bromomethane		U	1760	µg/l	5					< 5			
Chloroethane		U	1760	µg/l	2.0					< 2.0			
Trichlorofluoromethane		U	1760	µg/l	1.0					< 1.0			
1,1-Dichloroethene		U	1760	µg/l	1.0					< 1.0			
Trans 1,2-Dichloroethene		U	1760	µg/l	1.0					< 1.0			
1,1-Dichloroethane		U	1760	µg/l	1.0					< 1.0			
cis 1,2-Dichloroethene		U	1760	µg/l	1.0					< 1.0			
Bromochloromethane		U	1760	µg/l	5					< 5			
Trichloromethane		U	1760	µg/l	1.0					< 1.0			
1,1,1-Trichloroethane		U	1760	µg/l	1.0					< 1.0			
Tetrachloromethane		U	1760	µg/l	1.0					< 1.0			
1,1-Dichloropropene		U	1760	µg/l	1.0					< 1.0			
Benzene		U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
1,2-Dichloroethane		U	1760	µg/l	2.0					< 2.0			
Trichloroethene		N	1760	µg/l	1.0					< 1.0			
1,2-Dichloropropane		U	1760	µg/l	1.0					< 1.0			
Dibromomethane		U	1760	µg/l	10					< 10			
Bromodichloromethane		U	1760	µg/l	5					< 5			
cis-1,3-Dichloropropene		N	1760	µg/l	10					< 10			
Toluene		U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Trans-1,3-Dichloropropene		N	1760	µg/l	10					< 10			
1,1,2-Trichloroethane		U	1760	µg/l	10					< 10			
Tetrachloroethene		U	1760	µg/l	1.0					< 1.0			
1,3-Dichloropropane		U	1760	µg/l	2.0					< 2.0			
Dibromochloromethane		U	1760	µg/l	10					< 10			
1,2-Dibromoethane		U	1760	µg/l	5					< 5			
Chlorobenzene		N	1760	µg/l	1.0					< 1.0			
1,1,1,2-Tetrachloroethane		U	1760	µg/l	2.0					< 2.0			
Ethylbenzene		U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
m & p-Xylene		U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
o-Xylene		U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Styrene		U	1760	µg/l	1.0					< 1.0			
Tribromomethane		U	1760	µg/l	1.0					< 1.0			
Isopropylbenzene		U	1760	µg/l	1.0					< 1.0			

Results - Water

Project: 24/3980 Thorney Lane

Client: Concept Engineering Consultants		Chemtest Job No.:				24-27750	24-27750	24-27750	24-27750	24-27750	24-27750
Quotation No.: Q24-34527		Chemtest Sample ID.:				1858229	1858230	1858231	1858232	1858233	1858234
		Sample Location:				DS24-03	BH24-06	BH24-05	DS24-01	DS107(3)	BH24-10
		Sample Type:				WATER	WATER	WATER	WATER	WATER	WATER
		Sample Sub Type:									
		Date Sampled:				27-Aug-2024	27-Aug-2024	27-Aug-2024	27-Aug-2024	27-Aug-2024	27-Aug-2024
Determinand	HWOL Code	Accred.	SOP	Units	LOD						
Bromobenzene		U	1760	µg/l	1.0					< 1.0	
1,2,3-Trichloropropane		N	1760	µg/l	50					< 50	
N-Propylbenzene		U	1760	µg/l	1.0					< 1.0	
2-Chlorotoluene		U	1760	µg/l	1.0					< 1.0	
1,3,5-Trimethylbenzene		U	1760	µg/l	1.0					< 1.0	
4-Chlorotoluene		U	1760	µg/l	1.0					< 1.0	
Tert-Butylbenzene		U	1760	µg/l	1.0					< 1.0	
1,2,4-Trimethylbenzene		U	1760	µg/l	1.0					< 1.0	
Sec-Butylbenzene		U	1760	µg/l	1.0					< 1.0	
1,3-Dichlorobenzene		N	1760	µg/l	1.0					< 1.0	
4-Isopropyltoluene		U	1760	µg/l	1.0					< 1.0	
1,4-Dichlorobenzene		U	1760	µg/l	1.0					< 1.0	
N-Butylbenzene		U	1760	µg/l	1.0					< 1.0	
1,2-Dichlorobenzene		U	1760	µg/l	1.0					< 1.0	
1,2-Dibromo-3-Chloropropane		U	1760	µg/l	50					< 50	
1,2,4-Trichlorobenzene		U	1760	µg/l	1.0					< 1.0	
Hexachlorobutadiene		U	1760	µg/l	1.0					< 1.0	
1,2,3-Trichlorobenzene		U	1760	µg/l	2.0					< 2.0	
Methyl Tert-Butyl Ether		N	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
N-Nitrosodimethylamine		N	1790	µg/l	0.50					< 0.50	
Phenol		N	1790	µg/l	0.50					< 0.50	
2-Chlorophenol		N	1790	µg/l	0.50					< 0.50	
Bis-(2-Chloroethyl)Ether		N	1790	µg/l	0.50					< 0.50	
1,3-Dichlorobenzene		N	1790	µg/l	0.50					< 0.50	
1,4-Dichlorobenzene		N	1790	µg/l	0.50					< 0.50	
1,2-Dichlorobenzene		N	1790	µg/l	0.50					< 0.50	
2-Methylphenol (o-Cresol)		N	1790	µg/l	0.50					< 0.50	
Bis(2-Chloroisopropyl)Ether		N	1790	µg/l	0.50					< 0.50	
Hexachloroethane		N	1790	µg/l	0.50					< 0.50	
N-Nitrosodi-n-propylamine		N	1790	µg/l	0.50					< 0.50	
4-Methylphenol		N	1790	µg/l	0.50					< 0.50	
Nitrobenzene		N	1790	µg/l	0.50					< 0.50	
Isophorone		N	1790	µg/l	0.50					< 0.50	
2-Nitrophenol		N	1790	µg/l	0.50					< 0.50	
2,4-Dimethylphenol		N	1790	µg/l	0.50					< 0.50	
Bis(2-Chloroethoxy)Methane		N	1790	µg/l	0.50					< 0.50	
2,4-Dichlorophenol		N	1790	µg/l	0.50					< 0.50	
1,2,4-Trichlorobenzene		N	1790	µg/l	0.50					< 0.50	
Naphthalene		N	1790	µg/l	0.50					< 0.50	

Results - Water

Project: 24/3980 Thorney Lane

Client: Concept Engineering Consultants		Chemtest Job No.:				24-27750	24-27750	24-27750	24-27750	24-27750	24-27750
Quotation No.: Q24-34527		Chemtest Sample ID.:				1858229	1858230	1858231	1858232	1858233	1858234
		Sample Location:				DS24-03	BH24-06	BH24-05	DS24-01	DS107(3)	BH24-10
		Sample Type:				WATER	WATER	WATER	WATER	WATER	WATER
		Sample Sub Type:									
		Date Sampled:				27-Aug-2024	27-Aug-2024	27-Aug-2024	27-Aug-2024	27-Aug-2024	27-Aug-2024
Determinand	HWOL Code	Accred.	SOP	Units	LOD						
4-Chloroaniline		N	1790	µg/l	0.50					< 0.50	
Hexachlorobutadiene		N	1790	µg/l	0.50					< 0.50	
4-Chloro-3-Methylphenol		N	1790	µg/l	0.50					< 0.50	
2-Methylnaphthalene		N	1790	µg/l	0.50					< 0.50	
2,4,6-Trichlorophenol		N	1790	µg/l	0.50					< 0.50	
2,4,5-Trichlorophenol		N	1790	µg/l	0.50					< 0.50	
2-Chloronaphthalene		N	1790	µg/l	0.50					< 0.50	
2-Nitroaniline		N	1790	µg/l	0.50					< 0.50	
Acenaphthylene		N	1790	µg/l	0.50					< 0.50	
Dimethylphthalate		N	1790	µg/l	0.50					< 0.50	
2,6-Dinitrotoluene		N	1790	µg/l	0.50					< 0.50	
Acenaphthene		N	1790	µg/l	0.50					< 0.50	
3-Nitroaniline		N	1790	µg/l	0.50					< 0.50	
Dibenzofuran		N	1790	µg/l	0.50					< 0.50	
4-Chlorophenylphenylether		N	1790	µg/l	0.50					< 0.50	
2,4-Dinitrotoluene		N	1790	µg/l	0.50					< 0.50	
Fluorene		N	1790	µg/l	0.50					< 0.50	
Diethyl Phthalate		N	1790	µg/l	0.50					< 0.50	
4-Nitroaniline		N	1790	µg/l	0.50					< 0.50	
2-Methyl-4,6-Dinitrophenol		N	1790	µg/l	0.50					< 0.50	
Azobenzene		N	1790	µg/l	0.50					< 0.50	
4-Bromophenylphenyl Ether		N	1790	µg/l	0.50					< 0.50	
Hexachlorobenzene		N	1790	µg/l	0.50					< 0.50	
Phenanthrene		N	1790	µg/l	0.50					< 0.50	
Anthracene		N	1790	µg/l	0.50					< 0.50	
Carbazole		N	1790	µg/l	0.50					< 0.50	
Di-N-Butyl Phthalate		N	1790	µg/l	0.50					< 0.50	
Fluoranthene		N	1790	µg/l	0.50					< 0.50	
Pyrene		N	1790	µg/l	0.50					< 0.50	
Butylbenzyl Phthalate		N	1790	µg/l	0.50					< 0.50	
Benzo[a]anthracene		N	1790	µg/l	0.50					< 0.50	
Chrysene		N	1790	µg/l	0.50					< 0.50	
Bis(2-Ethylhexyl)Phthalate		N	1790	µg/l	0.50					< 0.50	
Di-N-Octyl Phthalate		N	1790	µg/l	0.50					< 0.50	
Benzo[b]fluoranthene		N	1790	µg/l	0.50					< 0.50	
Benzo[k]fluoranthene		N	1790	µg/l	0.50					< 0.50	
Benzo[a]pyrene		N	1790	µg/l	0.50					< 0.50	
Indeno(1,2,3-c,d)Pyrene		N	1790	µg/l	0.50					< 0.50	
Dibenz(a,h)Anthracene		N	1790	µg/l	0.50					< 0.50	

Results - Water

Project: 24/3980 Thorney Lane

Client: Concept Engineering Consultants		Chemtest Job No.:						24-27750	24-27750	24-27750	24-27750	24-27750	24-27750
Quotation No.: Q24-34527		Chemtest Sample ID.:						1858229	1858230	1858231	1858232	1858233	1858234
		Sample Location:						DS24-03	BH24-06	BH24-05	DS24-01	DS107(3)	BH24-10
		Sample Type:						WATER	WATER	WATER	WATER	WATER	WATER
		Sample Sub Type:											
		Date Sampled:						27-Aug-2024	27-Aug-2024	27-Aug-2024	27-Aug-2024	27-Aug-2024	27-Aug-2024
Determinand	HWOL Code	Accred.	SOP	Units	LOD								
Benzo[g,h,i]perylene		N	1790	µg/l	0.50						< 0.50		
4-Nitrophenol		N	1790	µg/l	0.50						< 0.50		
Naphthalene		U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	
Acenaphthylene		U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	
Acenaphthene		U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	
Fluorene		U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	
Phenanthrene		U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	
Anthracene		U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	
Fluoranthene		U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	
Pyrene		U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	
Benzo[a]anthracene		U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	
Chrysene		U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	
Benzo[b]fluoranthene		U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	
Benzo[k]fluoranthene		U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	
Benzo[a]pyrene		U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	
Indeno(1,2,3-c,d)Pyrene		U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	
Dibenz(a,h)Anthracene		U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	
Benzo[g,h,i]perylene		U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	
Total Of 16 PAH's		U	1800	µg/l	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	
Total Phenols		U	1920	mg/l	0.030	< 0.030	< 0.030	< 0.030	< 0.030	< 0.030	< 0.030	< 0.030	

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
1010	pH Value of Waters	pH at 20°C	pH Meter	RE PW TE TS PL DW GW
1220	Anions, Alkalinity & Ammonium in Waters	Fluoride; Chloride; Nitrite; Nitrate; Total; Oxidisable Nitrogen (TON); Sulfate; Phosphate; Alkalinity; Ammonium	Automated colorimetric analysis using 'Aquakem 600' Discrete Analyser.	RE PW TE TS PL LE DW GW
1270	Total Hardness of Waters	Total hardness	Calculation applied to calcium and magnesium results, expressed as mg l-1 CaCO3 equivalent.	RE PW PL SW DW GW
1300	Cyanides & Thiocyanate in Waters	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Continuous Flow Analysis.	GW
1455	Metals in Waters by ICP-MS	Metals, including: Antimony; Arsenic; Barium; Beryllium; Boron; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Tin; Vanadium; Zinc	Filtration of samples followed by direct determination by inductively coupled plasma mass spectrometry (ICP-MS).	RE PW PL SW DW GW
1490	Hexavalent Chromium in Waters	Chromium [VI]	Automated colorimetric analysis by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazine.	PL GW
1610	Total/Dissolved Organic Carbon in Waters	Organic Carbon	TOC Analyser using Catalytic Oxidation	PL SW GW
1675	TPH Aliphatic/Aromatic split in Waters by GC-FID(cf. Texas Method 1006 / TPH CWG)	Aliphatics: >C5-C6, >C6-C8, >C8- C10, >C10-C12, >C12-C16, >C16-C21, >C21-C35, >C35- C44 Aromatics: >C5-C7, >C7-C8, >C8- C10, >C10-C12, >C12-C16, >C16- C21, >C21- C35, >C35- C44	Pentane extraction / GCxGC FID detection	
1760	Volatile Organic Compounds (VOCs) in Waters by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics. (cf. USEPA Method 8260)	Automated headspace gas chromatographic (GC) analysis of water samples with mass spectrometric (MS) detection of volatile organic compounds.	PL GW
1790	Semi-Volatile Organic Compounds (SVOCs) in Waters by GC-MS	Semi-volatile organic compounds	Solvent extraction / GCMS detection	
1800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Waters by GC-MS	Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenz[ah]Anthracene; Fluoranthene; Fluorene; Indeno[123cd]Pyrene; Naphthalene; Phenanthrene; Pyrene	Pentane extraction / GCMS detection	PL GW
1920	Phenols in Waters by HPLC	Phenolic compounds including: Phenol, Cresols, Xylenols, Trimethylphenols Note: Chlorophenols are excluded.	Determination by High Performance Liquid Chromatography (HPLC) using electrochemical detection.	PL GW

Report Information

Key

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

This report shall not be reproduced except in full, and only with the prior approval of the laboratory.

Any comments or interpretations are outside the scope of UKAS accreditation.

The Laboratory is not accredited for any sampling activities and reported results relate to the samples 'as received' at the laboratory.

Uncertainty of measurement for the determinands tested are available upon request .

None of the results in this report have been recovery corrected.

All results are expressed on a dry weight basis.

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

For all other tests the samples were dried at $\leq 30^{\circ}\text{C}$ prior to analysis.

All Asbestos testing is performed at the indicated laboratory .

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

Sample Deviation Codes

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

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt.

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

Charges may apply to extended sample storage.

Water Sample Category Key for Accreditation

- DW - Drinking Water
- GW - Ground Water
- LE - Land Leachate
- NA - Not Applicable

Report Information

PL - Prepared Leachate
PW - Processed Water
RE - Recreational Water
SA - Saline Water
SW - Surface Water
TE - Treated Effluent
TS - Treated Sewage
UL - Unspecified Liquid

Clean Up Codes

NC - No Clean Up
MC - Mathematical Clean Up
FC - Florisil Clean Up

HWOL Acronym System

HS - Headspace analysis
EH - Extractable hydrocarbons – i.e. everything extracted by the solvent
CU - Clean-up – e.g. by Florisil, silica gel
1D - GC – Single coil gas chromatography
Total - Aliphatics & Aromatics
AL - Aliphatics only
AR - Aromatic only
2D - GC-GC – Double coil gas chromatography
#1 - EH_2D_Total but with humics mathematically subtracted
#2 - EH_2D_Total but with fatty acids mathematically subtracted
+ - Operator to indicate cumulative e.g. EH+EH_Total or EH_CU+HS_Total

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



Final Report

Report No.: 24-28746-1

Initial Date of Issue: 11-Sep-2024

Re-Issue Details:

Client Concept Engineering Consultants

Client Address: 47 - 49 Brunel Road
London
W3 7XR

Contact(s): Gabriela Mandache
Kasia Mazerant
Lab

Project 24/3980 Thorney Lane

Quotation No.: Q24-34527 **Date Received:** 06-Sep-2024

Order No.: 103471 (CL6219) **Date Instructed:** 06-Sep-2024

No. of Samples: 4

Turnaround (Wkdays): 5 **Results Due:** 12-Sep-2024

Date Approved: 11-Sep-2024

Approved By:

Details: David Smith, Technical Director

For details about application of accreditation to specific matrix types, please refer to the Table at the back of this report

Results - Water

Project: 24/3980 Thorney Lane

Client: Concept Engineering Consultants		Chemtest Job No.:							
		24-28746		24-28746		24-28746		24-28746	
Quotation No.: Q24-34527		Chemtest Sample ID.:							
		1862776		1862777		1862778		1862779	
Order No.: 103471 (CL6219)		Client Sample Ref.:							
		1A		1A		1A		2A	
		Sample Location:							
		DS24-05		DS105		DS122		DS24-03	
		Sample Type:							
		WATER		WATER		WATER		WATER	
		Sample Sub Type:							
		Date Sampled:							
		04-Sep-2024		04-Sep-2024		04-Sep-2024		04-Sep-2024	
Determinand	HWOL Code	Accred.	SOP	Units	LOD				
pH at 20C		U	1010		4.0	8.2	8.5	8.1	8.0
Chloride		U	1220	mg/l	1.0	52	150	140	76
Ammonia (Free)		N	1220	mg/l	0.050	< 0.050	1.0	0.068	< 0.050
Ammoniacal Nitrogen		U	1220	mg/l	0.050	0.10	7.5	1.0	0.39
Cyanide (Total)		U	1300	mg/l	0.050	< 0.050	< 0.050	< 0.050	< 0.050
Calcium (Dissolved)		U	1455	mg/l	2.00	140	19	110	160
Total Hardness as CaCO3		U	1270	mg/l	15	390	67	300	470
Arsenic (Dissolved)		U	1455	µg/l	0.20	< 0.20	10	< 0.20	< 0.20
Beryllium (Dissolved)		U	1455	µg/l	1.00	< 1.0	< 1.0	< 1.0	< 1.0
Cadmium (Dissolved)		U	1455	µg/l	0.11	0.13	< 0.11	0.34	0.14
Chromium (Dissolved)		U	1455	µg/l	0.50	2.5	0.93	1.9	2.9
Copper (Dissolved)		U	1455	µg/l	0.50	6.7	1.5	3.3	3.4
Mercury (Dissolved)		U	1455	µg/l	0.05	< 0.05	0.09	< 0.05	< 0.05
Manganese (Dissolved)		U	1455	µg/l	0.50	520	11	3700	5200
Nickel (Dissolved)		U	1455	µg/l	0.50	20	22	34	15
Lead (Dissolved)		U	1455	µg/l	0.50	4.3	< 0.50	< 0.50	< 0.50
Antimony (Dissolved)		U	1455	µg/l	0.50	0.98	2.5	< 0.50	< 0.50
Selenium (Dissolved)		U	1455	µg/l	0.50	1.4	1.5	2.0	1.6
Vanadium (Dissolved)		U	1455	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Zinc (Dissolved)		U	1455	µg/l	2.5	21	5.7	5.8	9.4
Chromium (Hexavalent)		U	1490	µg/l	20	< 20	< 20	< 20	< 20
Dissolved Organic Carbon		U	1610	mg/l	2.0	11	30	5.5	9.8
Aliphatic TPH >C5-C6	EH_2D_AL_#1	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C6-C8	EH_2D_AL_#1	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C8-C10	EH_2D_AL_#1	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C10-C12	EH_2D_AL_#1	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C12-C16	EH_2D_AL_#1	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C16-C21	EH_2D_AL_#1	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C21-C35	EH_2D_AL_#1	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C35-C44	EH_2D_AL_#1	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Aliphatic Hydrocarbons	EH_2D_AL_#1	N	1675	µg/l	5.0	< 5.0	< 5.0	< 5.0	< 5.0
Aromatic TPH >C5-C7	EH_2D_AR_#1	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aromatic TPH >C7-C8	EH_2D_AR_#1	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aromatic TPH >C8-C10	EH_2D_AR_#1	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aromatic TPH >C10-C12	EH_2D_AR_#1	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aromatic TPH >C12-C16	EH_2D_AR_#1	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aromatic TPH >C16-C21	EH_2D_AR_#1	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aromatic TPH >C21-C35	EH_2D_AR_#1	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10

Results - Water

Project: 24/3980 Thorney Lane

Client: Concept Engineering Consultants		Chemtest Job No.:							
		24-28746		24-28746		24-28746		24-28746	
Quotation No.: Q24-34527		Chemtest Sample ID.:							
		1862776		1862777		1862778		1862779	
Order No.: 103471 (CL6219)		Client Sample Ref.:							
		1A		1A		1A		2A	
		Sample Location:							
		DS24-05		DS105		DS122		DS24-03	
		Sample Type:							
		WATER		WATER		WATER		WATER	
		Sample Sub Type:							
		Date Sampled:							
		04-Sep-2024		04-Sep-2024		04-Sep-2024		04-Sep-2024	
Determinand	HWOL Code	Accred.	SOP	Units	LOD				
Aromatic TPH >C35-C44	EH_2D_AR_#1	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Aromatic Hydrocarbons	EH_2D_AR_#1	N	1675	µg/l	5.0	< 5.0	< 5.0	< 5.0	< 5.0
Total Petroleum Hydrocarbons	EH_2D_Total_#1	N	1675	µg/l	10	< 10	< 10	< 10	< 10
Benzene		U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene		U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene		U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0
m & p-Xylene		U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene		U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Methyl Tert-Butyl Ether		N	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Naphthalene		U	1800	µg/l	0.10	< 0.10	3.8	< 0.10	< 0.10
Acenaphthylene		U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene		U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene		U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene		U	1800	µg/l	0.10	< 0.10	1.1	< 0.10	< 0.10
Anthracene		U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluoranthene		U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Pyrene		U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]anthracene		U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chrysene		U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[b]fluoranthene		U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene		U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]pyrene		U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene		U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene		U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene		U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Of 16 PAH's		U	1800	µg/l	2.0	< 2.0	4.9	< 2.0	< 2.0
Total Phenols		U	1920	mg/l	0.030	< 0.030	< 0.030	< 0.030	< 0.030

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
1010	pH Value of Waters	pH at 20°C	pH Meter	RE PW TE TS PL DW GW
1220	Anions, Alkalinity & Ammonium in Waters	Fluoride; Chloride; Nitrite; Nitrate; Total; Oxidisable Nitrogen (TON); Sulfate; Phosphate; Alkalinity; Ammonium	Automated colorimetric analysis using 'Aquakem 600' Discrete Analyser.	RE PW TE TS PL LE DW GW
1270	Total Hardness of Waters	Total hardness	Calculation applied to calcium and magnesium results, expressed as mg l-1 CaCO3 equivalent.	RE PW PL SW DW GW
1300	Cyanides & Thiocyanate in Waters	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Continuous Flow Analysis.	GW
1455	Metals in Waters by ICP-MS	Metals, including: Antimony; Arsenic; Barium; Beryllium; Boron; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Tin; Vanadium; Zinc	Filtration of samples followed by direct determination by inductively coupled plasma mass spectrometry (ICP-MS).	RE PW PL SW DW GW
1490	Hexavalent Chromium in Waters	Chromium [VI]	Automated colorimetric analysis by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazine.	PL GW
1610	Total/Dissolved Organic Carbon in Waters	Organic Carbon	TOC Analyser using Catalytic Oxidation	PL SW GW
1675	TPH Aliphatic/Aromatic split in Waters by GC-FID(cf. Texas Method 1006 / TPH CWG)	Aliphatics: >C5-C6, >C6-C8, >C8-C10, >C10-C12, >C12-C16, >C16-C21, >C21-C35, >C35-C44 Aromatics: >C5-C7, >C7-C8, >C8-C10, >C10-C12, >C12-C16, >C16-C21, >C21-C35, >C35-C44	Pentane extraction / GCxGC FID detection	
1760	Volatile Organic Compounds (VOCs) in Waters by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics. (cf. USEPA Method 8260)	Automated headspace gas chromatographic (GC) analysis of water samples with mass spectrometric (MS) detection of volatile organic compounds.	PL GW
1800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Waters by GC-MS	Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenz[ah]Anthracene; Fluoranthene; Fluorene; Indeno[123cd]Pyrene; Naphthalene; Phenanthrene; Pyrene	Pentane extraction / GCMS detection	PL GW
1920	Phenols in Waters by HPLC	Phenolic compounds including: Phenol, Cresols, Xylenols, Trimethylphenols Note: Chlorophenols are excluded.	Determination by High Performance Liquid Chromatography (HPLC) using electrochemical detection.	PL GW

Report Information

Key

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

This report shall not be reproduced except in full, and only with the prior approval of the laboratory.

Any comments or interpretations are outside the scope of UKAS accreditation.

The Laboratory is not accredited for any sampling activities and reported results relate to the samples 'as received' at the laboratory.

Uncertainty of measurement for the determinands tested are available upon request .

None of the results in this report have been recovery corrected.

All results are expressed on a dry weight basis.

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

For all other tests the samples were dried at $\leq 30^{\circ}\text{C}$ prior to analysis.

All Asbestos testing is performed at the indicated laboratory .

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

Sample Deviation Codes

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

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt.

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

Charges may apply to extended sample storage.

Water Sample Category Key for Accreditation

- DW - Drinking Water
- GW - Ground Water
- LE - Land Leachate
- NA - Not Applicable

Report Information

PL - Prepared Leachate
PW - Processed Water
RE - Recreational Water
SA - Saline Water
SW - Surface Water
TE - Treated Effluent
TS - Treated Sewage
UL - Unspecified Liquid

Clean Up Codes

NC - No Clean Up
MC - Mathematical Clean Up
FC - Florisil Clean Up

HWOL Acronym System

HS - Headspace analysis
EH - Extractable hydrocarbons – i.e. everything extracted by the solvent
CU - Clean-up – e.g. by Florisil, silica gel
1D - GC – Single coil gas chromatography
Total - Aliphatics & Aromatics
AL - Aliphatics only
AR - Aromatic only
2D - GC-GC – Double coil gas chromatography
#1 - EH_2D_Total but with humics mathematically subtracted
#2 - EH_2D_Total but with fatty acids mathematically subtracted
+ - Operator to indicate cumulative e.g. EH+EH_Total or EH_CU+HS_Total

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



Final Report

Report No.: 24-29152-1

Initial Date of Issue: 13-Sep-2024

Re-Issue Details:

Client Concept Engineering Consultants

Client Address: 47 - 49 Brunel Road
London
W3 7XR

Contact(s): Kasia Mazerant
Lab
Gabriela Mandache

Project 24/3980 Thorney Lane

Quotation No.: Q24-34527 **Date Received:** 06-Sep-2024

Order No.: 103507 (CL6236) **Date Instructed:** 11-Sep-2024

No. of Samples: 4

Turnaround (Wkdays): 5 **Results Due:** 17-Sep-2024

Date Approved: 13-Sep-2024 **Subcon Results Due:** 02-Oct-2024

Approved By:

Details: David Smith, Technical Director

For details about application of accreditation to specific matrix types, please refer to the Table at the back of this report

Results - Water

Project: 24/3980 Thorney Lane

Client: Concept Engineering Consultants		Chemtest Job No.:		24-29152	24-29152	24-29152	24-29152		
Quotation No.: Q24-34527		Chemtest Sample ID.:		1864566	1864567	1864568	1864569		
Order No.: 103507 (CL6236)		Client Sample Ref.:		1A	1A	1A	1A		
		Sample Location:		BH24-04A	BH24-07	BH24-09	DS24-04		
		Sample Type:		WATER	WATER	WATER	WATER		
		Sample Sub Type:							
		Date Sampled:		09-Sep-2024	09-Sep-2024	09-Sep-2024	09-Sep-2024		
Determinand	HWOL Code	Accred.	SOP	Units	LOD				
pH at 20C		U	1010		4.0	8.6	8.0	8.4	8.1
Chloride		U	1220	mg/l	1.0	51	93	110	37
Ammonia (Free)		N	1220	mg/l	0.050	0.26	0.063	0.15	< 0.050
Ammoniacal Nitrogen		U	1220	mg/l	0.050	1.5	1.2	1.2	0.33
Cyanide (Total)		U	1300	mg/l	0.050	< 0.050	< 0.050	< 0.050	< 0.050
Calcium (Dissolved)		U	1455	mg/l	2.00	24	120	100	120
Total Hardness as CaCO3		U	1270	mg/l	15	68	330	300	350
Arsenic (Dissolved)		U	1455	µg/l	0.20	12	3.0	0.42	0.83
Beryllium (Dissolved)		U	1455	µg/l	1.00	< 1.0	< 1.0	< 1.0	< 1.0
Cadmium (Dissolved)		U	1455	µg/l	0.11	< 0.11	< 0.11	< 0.11	< 0.11
Chromium (Dissolved)		U	1455	µg/l	0.50	0.61	2.6	1.7	< 0.50
Copper (Dissolved)		U	1455	µg/l	0.50	4.5	0.70	1.2	1.3
Mercury (Dissolved)		U	1455	µg/l	0.05	< 0.05	< 0.05	< 0.05	< 0.05
Manganese (Dissolved)		U	1455	µg/l	0.50	7.7	1700	500	480
Nickel (Dissolved)		U	1455	µg/l	0.50	7.3	34	10	11
Lead (Dissolved)		U	1455	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Antimony (Dissolved)		U	1455	µg/l	0.50	1.1	< 0.50	< 0.50	< 0.50
Selenium (Dissolved)		U	1455	µg/l	0.50	1.7	1.1	0.87	0.69
Vanadium (Dissolved)		U	1455	µg/l	0.50	2.5	< 0.50	< 0.50	0.76
Zinc (Dissolved)		U	1455	µg/l	2.5	4.3	5.3	5.2	3.9
Chromium (Hexavalent)		U	1490	µg/l	20	< 20	< 20	< 20	< 20
Dissolved Organic Carbon		U	1610	mg/l	2.0	9.1	5.7	9.8	3.3
Aliphatic TPH >C5-C6	EH_2D_AL_#1	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C6-C8	EH_2D_AL_#1	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C8-C10	EH_2D_AL_#1	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C10-C12	EH_2D_AL_#1	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C12-C16	EH_2D_AL_#1	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C16-C21	EH_2D_AL_#1	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C21-C35	EH_2D_AL_#1	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C35-C44	EH_2D_AL_#1	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Aliphatic Hydrocarbons	EH_2D_AL_#1	N	1675	µg/l	5.0	< 5.0	< 5.0	< 5.0	< 5.0
Aromatic TPH >C5-C7	EH_2D_AR_#1	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aromatic TPH >C7-C8	EH_2D_AR_#1	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aromatic TPH >C8-C10	EH_2D_AR_#1	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aromatic TPH >C10-C12	EH_2D_AR_#1	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aromatic TPH >C12-C16	EH_2D_AR_#1	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aromatic TPH >C16-C21	EH_2D_AR_#1	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aromatic TPH >C21-C35	EH_2D_AR_#1	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10

Results - Water

Project: 24/3980 Thorney Lane

Client: Concept Engineering Consultants		Chemtest Job No.:							
		24-29152	24-29152	24-29152	24-29152	24-29152	24-29152		
Quotation No.: Q24-34527		Chemtest Sample ID.:							
		1864566	1864567	1864568	1864569	1864566	1864569		
Order No.: 103507 (CL6236)		Client Sample Ref.:							
		1A	1A	1A	1A	1A	1A		
		Sample Location:							
		BH24-04A	BH24-07	BH24-09	DS24-04	BH24-04A	DS24-04		
		Sample Type:							
		WATER	WATER	WATER	WATER	WATER	WATER		
		Sample Sub Type:							
		Date Sampled:							
		09-Sep-2024	09-Sep-2024	09-Sep-2024	09-Sep-2024	09-Sep-2024	09-Sep-2024		
Determinand	HWOL Code	Accred.	SOP	Units	LOD				
Aromatic TPH >C35-C44	EH_2D_AR_#1	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Aromatic Hydrocarbons	EH_2D_AR_#1	N	1675	µg/l	5.0	< 5.0	< 5.0	< 5.0	< 5.0
Total Petroleum Hydrocarbons	EH_2D_Total_#1	N	1675	µg/l	10	< 10	< 10	< 10	< 10
Dichlorodifluoromethane		U	1760	µg/l	1.0		< 1.0		
Chloromethane		U	1760	µg/l	1.0		< 1.0		
Vinyl Chloride		N	1760	µg/l	1.0		< 1.0		
Bromomethane		U	1760	µg/l	5		< 5		
Chloroethane		U	1760	µg/l	2.0		< 2.0		
Trichlorofluoromethane		U	1760	µg/l	1.0		< 1.0		
1,1-Dichloroethene		U	1760	µg/l	1.0		< 1.0		
Trans 1,2-Dichloroethene		U	1760	µg/l	1.0		< 1.0		
1,1-Dichloroethane		U	1760	µg/l	1.0		< 1.0		
cis 1,2-Dichloroethene		U	1760	µg/l	1.0		< 1.0		
Bromochloromethane		U	1760	µg/l	5		< 5		
Trichloromethane		U	1760	µg/l	1.0		< 1.0		
1,1,1-Trichloroethane		U	1760	µg/l	1.0		< 1.0		
Tetrachloromethane		U	1760	µg/l	1.0		< 1.0		
1,1-Dichloropropene		U	1760	µg/l	1.0		< 1.0		
Benzene		U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane		U	1760	µg/l	2.0		< 2.0		
Trichloroethene		N	1760	µg/l	1.0		< 1.0		
1,2-Dichloropropane		U	1760	µg/l	1.0		< 1.0		
Dibromomethane		U	1760	µg/l	10		< 10		
Bromodichloromethane		U	1760	µg/l	5		< 5		
cis-1,3-Dichloropropene		N	1760	µg/l	10		< 10		
Toluene		U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trans-1,3-Dichloropropene		N	1760	µg/l	10		< 10		
1,1,2-Trichloroethane		U	1760	µg/l	10		< 10		
Tetrachloroethene		U	1760	µg/l	1.0		< 1.0		
1,3-Dichloropropane		U	1760	µg/l	2.0		< 2.0		
Dibromochloromethane		U	1760	µg/l	10		< 10		
1,2-Dibromoethane		U	1760	µg/l	5		< 5		
Chlorobenzene		N	1760	µg/l	1.0		< 1.0		
1,1,1,2-Tetrachloroethane		U	1760	µg/l	2.0		< 2.0		
Ethylbenzene		U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0
m & p-Xylene		U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene		U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Styrene		U	1760	µg/l	1.0		< 1.0		

Results - Water

Project: 24/3980 Thorney Lane

Client: Concept Engineering Consultants		Chemtest Job No.:					24-29152	24-29152	24-29152	24-29152
Quotation No.: Q24-34527		Chemtest Sample ID.:					1864566	1864567	1864568	1864569
Order No.: 103507 (CL6236)		Client Sample Ref.:					1A	1A	1A	1A
		Sample Location:					BH24-04A	BH24-07	BH24-09	DS24-04
		Sample Type:					WATER	WATER	WATER	WATER
		Sample Sub Type:								
		Date Sampled:					09-Sep-2024	09-Sep-2024	09-Sep-2024	09-Sep-2024
Determinand	HWOL Code	Accred.	SOP	Units	LOD					
Tribromomethane		U	1760	µg/l	1.0		< 1.0			
Isopropylbenzene		U	1760	µg/l	1.0		< 1.0			
Bromobenzene		U	1760	µg/l	1.0		< 1.0			
1,2,3-Trichloropropane		N	1760	µg/l	50		< 50			
N-Propylbenzene		U	1760	µg/l	1.0		< 1.0			
2-Chlorotoluene		U	1760	µg/l	1.0		< 1.0			
1,3,5-Trimethylbenzene		U	1760	µg/l	1.0		< 1.0			
4-Chlorotoluene		U	1760	µg/l	1.0		< 1.0			
Tert-Butylbenzene		U	1760	µg/l	1.0		< 1.0			
1,2,4-Trimethylbenzene		U	1760	µg/l	1.0		< 1.0			
Sec-Butylbenzene		U	1760	µg/l	1.0		< 1.0			
1,3-Dichlorobenzene		N	1760	µg/l	1.0		< 1.0			
4-Isopropyltoluene		U	1760	µg/l	1.0		< 1.0			
1,4-Dichlorobenzene		U	1760	µg/l	1.0		< 1.0			
N-Butylbenzene		U	1760	µg/l	1.0		< 1.0			
1,2-Dichlorobenzene		U	1760	µg/l	1.0		< 1.0			
1,2-Dibromo-3-Chloropropane		U	1760	µg/l	50		< 50			
1,2,4-Trichlorobenzene		U	1760	µg/l	1.0		< 1.0			
Hexachlorobutadiene		U	1760	µg/l	1.0		< 1.0			
1,2,3-Trichlorobenzene		U	1760	µg/l	2.0		< 2.0			
Methyl Tert-Butyl Ether		N	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	
N-Nitrosodimethylamine		N	1790	µg/l	0.50		< 0.50			
Phenol		N	1790	µg/l	0.50		< 0.50			
2-Chlorophenol		N	1790	µg/l	0.50		< 0.50			
Bis-(2-Chloroethyl)Ether		N	1790	µg/l	0.50		< 0.50			
1,3-Dichlorobenzene		N	1790	µg/l	0.50		< 0.50			
1,4-Dichlorobenzene		N	1790	µg/l	0.50		< 0.50			
1,2-Dichlorobenzene		N	1790	µg/l	0.50		< 0.50			
2-Methylphenol (o-Cresol)		N	1790	µg/l	0.50		< 0.50			
Bis(2-Chloroisopropyl)Ether		N	1790	µg/l	0.50		< 0.50			
Hexachloroethane		N	1790	µg/l	0.50		< 0.50			
N-Nitrosodi-n-propylamine		N	1790	µg/l	0.50		< 0.50			
4-Methylphenol		N	1790	µg/l	0.50		< 0.50			
Nitrobenzene		N	1790	µg/l	0.50		< 0.50			
Isophorone		N	1790	µg/l	0.50		< 0.50			
2-Nitrophenol		N	1790	µg/l	0.50		< 0.50			
2,4-Dimethylphenol		N	1790	µg/l	0.50		< 0.50			
Bis(2-Chloroethoxy)Methane		N	1790	µg/l	0.50		< 0.50			

Results - Water

Project: 24/3980 Thorney Lane

Client: Concept Engineering Consultants		Chemtest Job No.:				24-29152	24-29152	24-29152	24-29152
Quotation No.: Q24-34527		Chemtest Sample ID.:				1864566	1864567	1864568	1864569
Order No.: 103507 (CL6236)		Client Sample Ref.:				1A	1A	1A	1A
		Sample Location:				BH24-04A	BH24-07	BH24-09	DS24-04
		Sample Type:				WATER	WATER	WATER	WATER
		Sample Sub Type:							
		Date Sampled:				09-Sep-2024	09-Sep-2024	09-Sep-2024	09-Sep-2024
Determinand	HWOL Code	Accred.	SOP	Units	LOD				
2,4-Dichlorophenol		N	1790	µg/l	0.50		< 0.50		
1,2,4-Trichlorobenzene		N	1790	µg/l	0.50		< 0.50		
Naphthalene		N	1790	µg/l	0.50		< 0.50		
4-Chloroaniline		N	1790	µg/l	0.50		< 0.50		
Hexachlorobutadiene		N	1790	µg/l	0.50		< 0.50		
4-Chloro-3-Methylphenol		N	1790	µg/l	0.50		< 0.50		
2-Methylnaphthalene		N	1790	µg/l	0.50		< 0.50		
2,4,6-Trichlorophenol		N	1790	µg/l	0.50		< 0.50		
2,4,5-Trichlorophenol		N	1790	µg/l	0.50		< 0.50		
2-Chloronaphthalene		N	1790	µg/l	0.50		< 0.50		
2-Nitroaniline		N	1790	µg/l	0.50		< 0.50		
Acenaphthylene		N	1790	µg/l	0.50		< 0.50		
Dimethylphthalate		N	1790	µg/l	0.50		< 0.50		
2,6-Dinitrotoluene		N	1790	µg/l	0.50		< 0.50		
Acenaphthene		N	1790	µg/l	0.50		< 0.50		
3-Nitroaniline		N	1790	µg/l	0.50		< 0.50		
Dibenzofuran		N	1790	µg/l	0.50		< 0.50		
4-Chlorophenylphenylether		N	1790	µg/l	0.50		< 0.50		
2,4-Dinitrotoluene		N	1790	µg/l	0.50		< 0.50		
Fluorene		N	1790	µg/l	0.50		< 0.50		
Diethyl Phthalate		N	1790	µg/l	0.50		< 0.50		
4-Nitroaniline		N	1790	µg/l	0.50		< 0.50		
2-Methyl-4,6-Dinitrophenol		N	1790	µg/l	0.50		< 0.50		
Azobenzene		N	1790	µg/l	0.50		< 0.50		
4-Bromophenylphenyl Ether		N	1790	µg/l	0.50		< 0.50		
Hexachlorobenzene		N	1790	µg/l	0.50		< 0.50		
Phenanthrene		N	1790	µg/l	0.50		< 0.50		
Anthracene		N	1790	µg/l	0.50		< 0.50		
Carbazole		N	1790	µg/l	0.50		< 0.50		
Di-N-Butyl Phthalate		N	1790	µg/l	0.50		< 0.50		
Fluoranthene		N	1790	µg/l	0.50		< 0.50		
Pyrene		N	1790	µg/l	0.50		< 0.50		
Butylbenzyl Phthalate		N	1790	µg/l	0.50		< 0.50		
Benzo[a]anthracene		N	1790	µg/l	0.50		< 0.50		
Chrysene		N	1790	µg/l	0.50		< 0.50		
Bis(2-Ethylhexyl)Phthalate		N	1790	µg/l	0.50		< 0.50		
Di-N-Octyl Phthalate		N	1790	µg/l	0.50		< 0.50		
Benzo[b]fluoranthene		N	1790	µg/l	0.50		< 0.50		

Results - Water

Project: 24/3980 Thorney Lane

Client: Concept Engineering Consultants		Chemtest Job No.:							
		24-29152	24-29152	24-29152	24-29152	24-29152	24-29152		
Quotation No.: Q24-34527		Chemtest Sample ID.:							
		1864566	1864567	1864568	1864569				
Order No.: 103507 (CL6236)		Client Sample Ref.:							
		1A	1A	1A	1A				
		Sample Location:							
		BH24-04A	BH24-07	BH24-09	DS24-04				
		Sample Type:							
		WATER	WATER	WATER	WATER				
		Sample Sub Type:							
		Date Sampled:							
		09-Sep-2024	09-Sep-2024	09-Sep-2024	09-Sep-2024				
Determinand	HWOL Code	Accred.	SOP	Units	LOD				
Benzo[k]fluoranthene		N	1790	µg/l	0.50		< 0.50		
Benzo[a]pyrene		N	1790	µg/l	0.50		< 0.50		
Indeno(1,2,3-c,d)Pyrene		N	1790	µg/l	0.50		< 0.50		
Dibenz(a,h)Anthracene		N	1790	µg/l	0.50		< 0.50		
Benzo[g,h,i]perylene		N	1790	µg/l	0.50		< 0.50		
4-Nitrophenol		N	1790	µg/l	0.50		< 0.50		
Naphthalene		U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene		U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene		U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene		U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene		U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Anthracene		U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluoranthene		U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Pyrene		U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]anthracene		U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chrysene		U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[b]fluoranthene		U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene		U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]pyrene		U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene		U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene		U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene		U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Of 16 PAH's		U	1800	µg/l	2.0	< 2.0	< 2.0	< 2.0	< 2.0
Total Phenols		U	1920	mg/l	0.030	< 0.030	< 0.030	< 0.030	< 0.030

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
1010	pH Value of Waters	pH at 20°C	pH Meter	RE PW TE TS PL DW GW
1220	Anions, Alkalinity & Ammonium in Waters	Fluoride; Chloride; Nitrite; Nitrate; Total; Oxidisable Nitrogen (TON); Sulfate; Phosphate; Alkalinity; Ammonium	Automated colorimetric analysis using 'Aquakem 600' Discrete Analyser.	RE PW TE TS PL LE DW GW
1270	Total Hardness of Waters	Total hardness	Calculation applied to calcium and magnesium results, expressed as mg l-1 CaCO3 equivalent.	RE PW PL SW DW GW
1300	Cyanides & Thiocyanate in Waters	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Continuous Flow Analysis.	GW
1455	Metals in Waters by ICP-MS	Metals, including: Antimony; Arsenic; Barium; Beryllium; Boron; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Tin; Vanadium; Zinc	Filtration of samples followed by direct determination by inductively coupled plasma mass spectrometry (ICP-MS).	RE PW PL SW DW GW
1490	Hexavalent Chromium in Waters	Chromium [VI]	Automated colorimetric analysis by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazine.	PL GW
1610	Total/Dissolved Organic Carbon in Waters	Organic Carbon	TOC Analyser using Catalytic Oxidation	PL SW GW
1675	TPH Aliphatic/Aromatic split in Waters by GC-FID(cf. Texas Method 1006 / TPH CWG)	Aliphatics: >C5-C6, >C6-C8, >C8-C10, >C10-C12, >C12-C16, >C16-C21, >C21-C35, >C35-C44 Aromatics: >C5-C7, >C7-C8, >C8-C10, >C10-C12, >C12-C16, >C16-C21, >C21-C35, >C35-C44	Pentane extraction / GCxGC FID detection	
1760	Volatile Organic Compounds (VOCs) in Waters by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics. (cf. USEPA Method 8260)	Automated headspace gas chromatographic (GC) analysis of water samples with mass spectrometric (MS) detection of volatile organic compounds.	PL GW
1790	Semi-Volatile Organic Compounds (SVOCs) in Waters by GC-MS	Semi-volatile organic compounds	Solvent extraction / GCMS detection	
1800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Waters by GC-MS	Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenz[ah]Anthracene; Fluoranthene; Fluorene; Indeno[123cd]Pyrene; Naphthalene; Phenanthrene; Pyrene	Pentane extraction / GCMS detection	PL GW
1920	Phenols in Waters by HPLC	Phenolic compounds including: Phenol, Cresols, Xylenols, Trimethylphenols Note: Chlorophenols are excluded.	Determination by High Performance Liquid Chromatography (HPLC) using electrochemical detection.	PL GW

Report Information

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U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"
SOP	Standard operating procedure
LOD	Limit of detection

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Uncertainty of measurement for the determinands tested are available upon request .

None of the results in this report have been recovery corrected.

All results are expressed on a dry weight basis.

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

For all other tests the samples were dried at $\leq 30^{\circ}\text{C}$ prior to analysis.

All Asbestos testing is performed at the indicated laboratory .

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Sample Deviation Codes

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

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt.

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

Charges may apply to extended sample storage.

Water Sample Category Key for Accreditation

- DW - Drinking Water
- GW - Ground Water
- LE - Land Leachate
- NA - Not Applicable

Report Information

PL - Prepared Leachate
PW - Processed Water
RE - Recreational Water
SA - Saline Water
SW - Surface Water
TE - Treated Effluent
TS - Treated Sewage
UL - Unspecified Liquid

Clean Up Codes

NC - No Clean Up
MC - Mathematical Clean Up
FC - Florisil Clean Up

HWOL Acronym System

HS - Headspace analysis
EH - Extractable hydrocarbons – i.e. everything extracted by the solvent
CU - Clean-up – e.g. by Florisil, silica gel
1D - GC – Single coil gas chromatography
Total - Aliphatics & Aromatics
AL - Aliphatics only
AR - Aromatic only
2D - GC-GC – Double coil gas chromatography
#1 - EH_2D_Total but with humics mathematically subtracted
#2 - EH_2D_Total but with fatty acids mathematically subtracted
+ - Operator to indicate cumulative e.g. EH+EH_Total or EH_CU+HS_Total

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



Final Report

Report No.: 24-29273-1

Initial Date of Issue: 27-Sep-2024

Re-Issue Details:

Client Concept Engineering Consultants

Client Address: 47 - 49 Brunel Road
London
W3 7XR

Contact(s): Gabriela Mandache
Kasia Mazerant
Lab

Project 24/3980 Thorney Lane

Quotation No.: Q24-34527

Date Received: 12-Sep-2024

Order No.: 103519 (CL6242)

Date Instructed: 12-Sep-2024

No. of Samples: 3

Turnaround (Wkdays): 12

Results Due: 27-Sep-2024

Date Approved: 27-Sep-2024

Subcon Results Due: 03-Oct-2024

Approved By:

Details: David Smith, Technical Director

For details about application of accreditation to specific matrix types, please refer to the Table at the back of this report

Results - Water

Project: 24/3980 Thorney Lane

Client: Concept Engineering Consultants		Chemtest Job No.:		24-29273	24-29273	24-29273		
Quotation No.: Q24-34527		Chemtest Sample ID.:		1865096	1865097	1865098		
Order No.: 103519 (CL6242)		Client Sample Ref.:		1A	1A	1A		
		Sample Location:		CP105	DS112	BH24-02		
		Sample Type:		WATER	WATER	WATER		
		Sample Sub Type:						
		Date Sampled:		10-Sep-2024	10-Sep-2024	10-Sep-2024		
Determinand	HWOL Code	Accred.	SOP	Units	LOD			
PFAS in Waters (Subcon)		SN			0.0200000	See attached	See attached	See attached
pH at 20C		U	1010		4.0	11.4	8.8	11.9
Chloride		U	1220	mg/l	1.0	410	130	54
Ammonia (Free)		N	1220	mg/l	0.050	0.51	0.38	3.8
Ammoniacal Nitrogen		U	1220	mg/l	0.050	0.51	1.4	3.8
Sulphate		U	1220	mg/l	1.0	250	29	21
Cyanide (Total)		U	1300	mg/l	0.050	< 0.050	< 0.050	< 0.050
Calcium (Dissolved)		U	1455	mg/l	2.00	140	69	60
Total Hardness as CaCO3		U	1270	mg/l	15	340	190	180
Arsenic (Dissolved)		U	1455	µg/l	0.20	10	5.3	6.0
Beryllium (Dissolved)		U	1455	µg/l	1.00	< 1.0	< 1.0	< 1.0
Cadmium (Dissolved)		U	1455	µg/l	0.11	< 0.11	< 0.11	0.13
Chromium (Dissolved)		U	1455	µg/l	0.50	0.85	< 0.50	0.58
Copper (Dissolved)		U	1455	µg/l	0.50	4.3	< 0.50	6.6
Mercury (Dissolved)		U	1455	µg/l	0.05	0.11	< 0.05	< 0.05
Manganese (Dissolved)		U	1455	µg/l	0.50	0.65	3700	820
Nickel (Dissolved)		U	1455	µg/l	0.50	3.4	11	11
Lead (Dissolved)		U	1455	µg/l	0.50	< 0.50	< 0.50	0.79
Antimony (Dissolved)		U	1455	µg/l	0.50	0.52	< 0.50	< 0.50
Selenium (Dissolved)		U	1455	µg/l	0.50	170	0.57	< 0.50
Vanadium (Dissolved)		U	1455	µg/l	0.50	290	< 0.50	< 0.50
Zinc (Dissolved)		U	1455	µg/l	2.5	6.3	6.1	17
Chromium (Hexavalent)		U	1490	µg/l	20	< 20	< 20	< 20
Dissolved Organic Carbon		U	1610	mg/l	2.0	9.6	4.1	7.9
Aliphatic TPH >C5-C6	EH_2D_AL_#1	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C6-C8	EH_2D_AL_#1	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C8-C10	EH_2D_AL_#1	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C10-C12	EH_2D_AL_#1	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C12-C16	EH_2D_AL_#1	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C16-C21	EH_2D_AL_#1	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C21-C35	EH_2D_AL_#1	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C35-C44	EH_2D_AL_#1	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10
Total Aliphatic Hydrocarbons	EH_2D_AL_#1	N	1675	µg/l	5.0	< 5.0	< 5.0	< 5.0
Aromatic TPH >C5-C7	EH_2D_AR_#1	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10
Aromatic TPH >C7-C8	EH_2D_AR_#1	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10
Aromatic TPH >C8-C10	EH_2D_AR_#1	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10
Aromatic TPH >C10-C12	EH_2D_AR_#1	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10
Aromatic TPH >C12-C16	EH_2D_AR_#1	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10
Aromatic TPH >C16-C21	EH_2D_AR_#1	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10
Aromatic TPH >C21-C35	EH_2D_AR_#1	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10
Aromatic TPH >C35-C44	EH_2D_AR_#1	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10
Total Aromatic Hydrocarbons	EH_2D_AR_#1	N	1675	µg/l	5.0	< 5.0	< 5.0	< 5.0

Results - Water

Project: 24/3980 Thorney Lane

Client: Concept Engineering Consultants		Chemtest Job No.:					
Quotation No.: Q24-34527		24-29273		24-29273		24-29273	
Order No.: 103519 (CL6242)		Chemtest Sample ID.:					
		1865096		1865097		1865098	
		Client Sample Ref.:					
		1A		1A		1A	
		Sample Location:					
		CP105		DS112		BH24-02	
		Sample Type:					
		WATER		WATER		WATER	
		Sample Sub Type:					
		Date Sampled:					
		10-Sep-2024		10-Sep-2024		10-Sep-2024	
Determinand	HWOL Code	Accred.	SOP	Units	LOD		
Total Petroleum Hydrocarbons	EH_2D_Total_#1	N	1675	µg/l	10	< 10	< 10
Benzene		U	1760	µg/l	1.0	< 1.0	< 1.0
Toluene		U	1760	µg/l	1.0	< 1.0	< 1.0
Ethylbenzene		U	1760	µg/l	1.0	< 1.0	< 1.0
m & p-Xylene		U	1760	µg/l	1.0	< 1.0	< 1.0
o-Xylene		U	1760	µg/l	1.0	< 1.0	< 1.0
Methyl Tert-Butyl Ether		N	1760	µg/l	1.0	< 1.0	< 1.0
Naphthalene		U	1800	µg/l	0.10	< 0.10	< 0.10
Acenaphthylene		U	1800	µg/l	0.10	< 0.10	< 0.10
Acenaphthene		U	1800	µg/l	0.10	< 0.10	< 0.10
Fluorene		U	1800	µg/l	0.10	< 0.10	< 0.10
Phenanthrene		U	1800	µg/l	0.10	< 0.10	< 0.10
Anthracene		U	1800	µg/l	0.10	< 0.10	< 0.10
Fluoranthene		U	1800	µg/l	0.10	< 0.10	< 0.10
Pyrene		U	1800	µg/l	0.10	< 0.10	< 0.10
Benzo[a]anthracene		U	1800	µg/l	0.10	< 0.10	< 0.10
Chrysene		U	1800	µg/l	0.10	< 0.10	< 0.10
Benzo[b]fluoranthene		U	1800	µg/l	0.10	< 0.10	< 0.10
Benzo[k]fluoranthene		U	1800	µg/l	0.10	< 0.10	< 0.10
Benzo[a]pyrene		U	1800	µg/l	0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene		U	1800	µg/l	0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene		U	1800	µg/l	0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene		U	1800	µg/l	0.10	< 0.10	< 0.10
Total Of 16 PAH's		U	1800	µg/l	2.0	< 2.0	< 2.0
Total Phenols		U	1920	mg/l	0.030	< 0.030	< 0.030

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
1010	pH Value of Waters	pH at 20°C	pH Meter	RE PW TE TS PL DW GW
1220	Anions, Alkalinity & Ammonium in Waters	Fluoride; Chloride; Nitrite; Nitrate; Total; Oxidisable Nitrogen (TON); Sulfate; Phosphate; Alkalinity; Ammonium	Automated colorimetric analysis using 'Aquakem 600' Discrete Analyser.	RE PW PL LE DW GW
1270	Total Hardness of Waters	Total hardness	Calculation applied to calcium and magnesium results, expressed as mg l-1 CaCO3 equivalent.	RE PW PL SW DW GW
1300	Cyanides & Thiocyanate in Waters	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Continuous Flow Analysis.	GW
1455	Metals in Waters by ICP-MS	Metals, including: Antimony; Arsenic; Barium; Beryllium; Boron; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Tin; Vanadium; Zinc	Filtration of samples followed by direct determination by inductively coupled plasma mass spectrometry (ICP-MS).	RE PW PL SW DW GW
1490	Hexavalent Chromium in Waters	Chromium [VI]	Automated colorimetric analysis by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazine.	PL GW
1610	Total/Dissolved Organic Carbon in Waters	Organic Carbon	TOC Analyser using Catalytic Oxidation	PL SW GW
1675	TPH Aliphatic/Aromatic split in Waters by GC-FID(cf. Texas Method 1006 / TPH CWG)	Aliphatics: >C5-C6, >C6-C8, >C8- C10, >C10-C12, >C12-C16, >C16-C21, >C21-C35, >C35- C44 Aromatics: >C5-C7, >C7-C8, >C8- C10, >C10-C12, >C12-C16, >C16- C21, >C21- C35, >C35- C44	Pentane extraction / GCxGC FID detection	
1760	Volatile Organic Compounds (VOCs) in Waters by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics. (cf. USEPA Method 8260)	Automated headspace gas chromatographic (GC) analysis of water samples with mass spectrometric (MS) detection of volatile organic compounds.	PL GW
1800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Waters by GC-MS	Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenz[ah]Anthracene; Fluoranthene; Fluorene; Indeno[123cd]Pyrene; Naphthalene; Phenanthrene; Pyrene	Pentane extraction / GCMS detection	PL GW
1920	Phenols in Waters by HPLC	Phenolic compounds including: Phenol, Cresols, Xylenols, Trimethylphenols Note: Chlorophenols are excluded.	Determination by High Performance Liquid Chromatography (HPLC) using electrochemical detection.	PL GW

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EH - Extractable hydrocarbons – i.e. everything extracted by the solvent
CU - Clean-up – e.g. by Florisil, silica gel
1D - GC – Single coil gas chromatography
Total - Aliphatics & Aromatics
AL - Aliphatics only
AR - Aromatic only
2D - GC-GC – Double coil gas chromatography
#1 - EH_2D_Total but with humics mathematically subtracted
#2 - EH_2D_Total but with fatty acids mathematically subtracted
+ - Operator to indicate cumulative e.g. EH+EH_Total or EH_CU+HS_Total

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

CERTIFICATE

Project code : 1802736
Your Project Description : 24-29273
Client : Eurofins Chemtest Ltd

Your Sample identification

8424343 = 1865096 - CP105 1A

8424345 = 1865097 - DS112 1A

8424346 = 1865098 - BH24-02

Client sampling date	:	10/09/2024	10/09/2024	10/09/2024
Date of receipt	:	16/09/2024	16/09/2024	16/09/2024
Startdate	:	16/09/2024	16/09/2024	16/09/2024
Reference number	:	8424343	8424345	8424346
Your Matrix	:	Water	Water	Water

Organic compounds - per- and polyfluoroalkylsubstances (PFAS) HPLC-MS/MS
Perfluorinated carboxylic acids:

PFBA	µg/l	0,06	0,02	0,02
PFPeA	µg/l	0,09	< 0,02	< 0,02
PFHxA	µg/l	0,11	0,03	0,04
PFHpA	µg/l	0,05	< 0,02	< 0,02
PFOA linear	µg/l	0,10	< 0,02	< 0,02
PFOA branched	µg/l	0,02	< 0,02	< 0,02
PFNA	µg/l	< 0,02	< 0,02	< 0,02
PFDA	µg/l	< 0,02	< 0,02	< 0,02
PFUnDA	µg/l	< 0,02	< 0,02	< 0,02
PFDoDA	µg/l	< 0,02	< 0,02	< 0,02
PFTTrDA	µg/l	< 0,02	< 0,02	< 0,02
PFTeDA	µg/l	< 0,02	< 0,02	< 0,02
PFHxDA	µg/l	< 0,02	< 0,02	< 0,02
PFODA	µg/l	< 0,02	< 0,02	< 0,02

Perfluorinated sulfonic acids:

PFBS	µg/l	< 0,02	< 0,02	< 0,02
PFPeS	µg/l	< 0,02	< 0,02	< 0,02
PFHxS	µg/l	0,02	< 0,02	< 0,02
PFHpS	µg/l	< 0,02	< 0,02	< 0,02
PFOS linear	µg/l	< 0,02	< 0,02	< 0,02
PFOS branched	µg/l	< 0,02	< 0,02	< 0,02
PFDS	µg/l	< 0,02	< 0,02	< 0,02

Perfluorinated alkyl substances - precursors:

4:2 FTS	µg/l	< 0,05	< 0,05	< 0,05
6:2 FTS	µg/l	0,07	< 0,05	0,12
8:2 FTS	µg/l	< 0,1	< 0,1	< 0,1
10:2 FTS	µg/l	< 0,05	< 0,05	< 0,05
PFOSA	µg/l	< 0,02	< 0,02	< 0,02

Perfluorinated alkyl substances - remainder:

HPFHpA	µg/l	< 0,5	< 0,5	< 0,5
4H-PFUnDA	µg/l	< 0,05	< 0,05	< 0,05
8:2 FTUCA	µg/l	< 0,05	< 0,05	< 0,05
9Cl-PF3ONS (F53-B)	µg/l	< 0,02	< 0,02	< 0,02
ADONA	µg/l	< 0,02	< 0,02	< 0,02
EtFOSA	µg/l	< 0,05	< 0,05	< 0,05
EtFOSAA	µg/l	< 0,03	< 0,02	< 0,02
MeFBSA	µg/l	< 0,02	< 0,02	< 0,02
MeFOSAA	µg/l	< 0,1	< 0,1	< 0,1
P37DMOA	µg/l	< 0,5	< 0,5	< 0,5
PFBSA	µg/l	< 0,02	< 0,02	< 0,02
MeFOSA	µg/l	< 0,05	< 0,05	< 0,05
MeFBSAA	µg/l	< 0,02	< 0,02	< 0,02
8:2 DiPAP	µg/l	< 0,1	< 0,1	< 0,1
sum PFOA	µg/l	0,12	0,03	0,03
sum PFOS	µg/l	0,03	0,03	0,03

CERTIFICATE

Project code : 1802736
Your Project Description : 24-29273
Client : Eurofins Chemtest Ltd

Notes related to analyses

General comments

The following information has been provided by the client if applicable:
 Project description, Sample identificaton, Client sampling date, Client Matrix, Sample depth, Pot number (Barcode), Field data, Field observations and sampling data. The client sampling date can affect the validity of the results.

Quantification of branched PFOS/POA is based on DIN 38414-14.

Summation of concentrations for group parameters

Summation is calculated according to AS3000 protocol, paragraph 2.5.2 and appendix 3.

Sample identification : 1865096 - CP105 1A
Reference number : 8424343

Results Note(s):

perfluorooctanesulfonylamide(N- ethyl)acetate: Raised reporting limit because of interference by the matrix.

CERTIFICATE

Project code	: 1802736
Your Project Description	: 24-29273
Client	: Eurofins Chemtest Ltd

Appendix Index PFAS

PFAS component	Full name PFAS component
10:2 FTS	10:2 FTS (10:2 Fluorotelomer sulfonic acid)
4:2 FTS	4:2 FTS (4:2 Fluorotelomer sulfonic acid)
4H-PFUnDA	4H-PFUnDA (2H,2H,3H,3H-Perfluoroundecanoic acid)
6:2 FTS	6:2 FTS (6:2 Fluorotelomer sulfonic acid)
8:2 DiPAP	8:2 DiPAP (8:2 Fluorotelomer phosphate diester)
8:2 FTS	8:2 FTS (8:2 Fluorotelomer sulfonic acid)
8:2 FTUCA	8:2 FTUCA (8:2 Fluorotelomer unsaturated carboxylic acid)
9Cl-PF3ONS (F53-B)	9Cl-PF3ONS (F53-B) (9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid)
ADONA	ADONA (ammonium 4,8-dioxa-3H-perfluorononanoate)
EtFOSA	EtFOSA (N-ethyl perfluorooctanesulfonamide)
EtFOSAA	EtFOSAA (perfluorooctanesulfonylamide(N-ethyl)acetate)
HPFHpA	HPFHpA (7H-perfluoroheptanoic acid)
MeFBSA	MeFBSA (N-methylperfluorobutanesulfonylamide)
MeFBSAA	MeFBSAA (perfluorobutanesulfonylamide(N-methyl)acetate)
MeFOSA	MeFOSA (N-methyl perfluorooctanesulfonamide)
MeFOSAA	MeFOSAA (N-methyl perfluorooctanesulfonamidoacetic acid)
P37DMOA	P37DMOA (perfluoro-3,7-dimethyloctanoic acid)
PFBA	PFBA (perfluorobutanoic acid)
PFBS	PFBS (perfluorobutanesulfonic acid)
PFBSA	PFBSA (perfluorobutanesulfonamide)
PFDA	PFDA (perfluorodecanoic acid)
PFDoDA	PFDoDA (perfluorododecanoic acid)
PFDS	PFDS (perfluorodecanesulfonic acid)
PFHpA	PFHpA (perfluoroheptanoic acid)
PFHpS	PFHpS (perfluoroheptanesulfonic acid)
PFHxA	PFHxA (perfluorohexanoic acid)
PFHxDA	PFHxDA (perfluorohexadecanoic acid)
PFHxS	PFHxS (perfluorohexanesulfonic acid)
PFNA	PFNA (perfluorononanoic acid)
PFOA branched	PFOA branched (perfluorooctanoic acid)
PFOA linear	PFOA linear (perfluorooctanoic acid)
PFODA	PFODA (perfluorooctadecanoic acid)
PFOS branched	PFOS branched (perfluorooctanesulfonic acid)
PFOS linear	PFOS linear (perfluorooctanesulfonic acid)
PFOSA	PFOSA (perfluorooctanesulfonamide)
PFPeA	PFPeA (perfluoropentanoic acid)
PFPeS	PFPeS (perfluoropentanesulfonic acid)
PFTeDA	PFTeDA (perfluorotetradecanoic acid)
PFTrDA	PFTrDA (perfluorotridecanoic acid)
PFUnDA	PFUnDA (perfluoroundecanoic acid)

Final Report

Report No.: 24-28724-1

Initial Date of Issue: 19-Sep-2024

Re-Issue Details:

Client Concept Engineering Consultants

Client Address: 47 - 49 Brunel Road
 London
 W3 7XR

Contact(s): Kasia Mazerant
 Lab
 Gabriela Mandache

Project 24/3980 Thorney Lane

Quotation No.: Q24-34527 **Date Received:** 06-Sep-2024

Order No.: 103472 (CL6220) **Date Instructed:** 06-Sep-2024

No. of Samples: 2

Turnaround (Wkdays): 10 **Results Due:** 19-Sep-2024

Date Approved: 19-Sep-2024 **Subcon Results Due:** 27-Sep-2024

Approved By:



Details: David Smith, Technical Director

For details about application of accreditation to specific matrix types, please refer to the Table at the back of this report

Results - Gas

Project: 24/3980 Thorney Lane

Client: Concept Engineering Consultants	Chemtest Job No.:		24-28724	24-28724		
Quotation No.: Q24-34527	Chemtest Sample ID.:		1862746	1862747		
	Sample Location:		DS24-03	BH24-03		
	Sample Type:		GAS	GAS		
	Date Sampled:		04-Sep-2024	04-Sep-2024		
Determinand	Accred.	SOP	Units	LOD		
Nitrogen (Subcon)	S		% v/v	0.50	80	87
Methane	S		% v/v	0.50	< 0.50	< 0.50
Carbon Monoxide	SN		% v/v	0.50	< 0.50	< 0.50
Carbon Dioxide	S		% v/v	0.50	2.9	1.3
Hydrogen	S		ppmv	50	< 50	< 50
Hydrogen Sulphide	S		% v/v	2.0	< 2.0	< 2.0
Oxygen	S		% v/v	0.50	15	10

Report Information

Key

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T	This analysis has been subcontracted to an unaccredited laboratory
I/S	Insufficient Sample
U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"
SOP	Standard operating procedure
LOD	Limit of detection

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Uncertainty of measurement for the determinands tested are available upon request .

None of the results in this report have been recovery corrected.

All results are expressed on a dry weight basis.

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

For all other tests the samples were dried at $\leq 30^{\circ}\text{C}$ prior to analysis.

All Asbestos testing is performed at the indicated laboratory .

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

Sample Deviation Codes

A - Date of sampling not supplied

B - Sample age exceeds stability time (sampling to extraction)

C - Sample not received in appropriate containers

D - Broken Container

E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt.

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

Charges may apply to extended sample storage.

Water Sample Category Key for Accreditation

DW - Drinking Water

GW - Ground Water

LE - Land Leachate

NA - Not Applicable

Report Information

PL - Prepared Leachate
PW - Processed Water
RE - Recreational Water
SA - Saline Water
SW - Surface Water
TE - Treated Effluent
TS - Treated Sewage
UL - Unspecified Liquid

Clean Up Codes

NC - No Clean Up
MC - Mathematical Clean Up
FC - Florisil Clean Up

HWOL Acronym System

HS - Headspace analysis
EH - Extractable hydrocarbons – i.e. everything extracted by the solvent
CU - Clean-up – e.g. by Florisil, silica gel
1D - GC – Single coil gas chromatography
Total - Aliphatics & Aromatics
AL - Aliphatics only
AR - Aromatic only
2D - GC-GC – Double coil gas chromatography
#1 - EH_2D_Total but with humics mathematically subtracted
#2 - EH_2D_Total but with fatty acids mathematically subtracted
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If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.com



1015

TEST REPORT

The results relate only to the items tested, calibrated or sampled



GAS ANALYSIS

Customer: Chemtest Limited, Depot Road, Newmarket, CB8 0AL

Date Received: 10 September 2024 Date Sampled: 04 September 2024

Report N° GA15698 Rev 1

Date Analysed: 17 September 2024 Site: 24-28724

SAMPLE REFERENCE	Analysis % V/V						
	Carbon Dioxide (CO ₂)	Oxygen (O ₂)	Carbon Monoxide (CO)	Hydrogen (H ₂)	Nitrogen (N ₂)	Methane (CH ₄)	Hydrogen Sulphide (H ₂ S)†
Method of Analysis	6	4	6	4	4	3	5
1862746 (DS24-03)	2.94	14.9	0.0022	<0.0005	80.1	0.15	<0.0001
1862747 (BH24-03)	1.34	10.1	0.0021	<0.0005	86.8	0.14	<0.0001

Method of 3 G.C. with F.I.D. - ENV/GAS03 6 G.C. with F.I.D. - ENV/GAS09
 Analysis:- 4 G.C. with T.C.D. - ENV/GAS09
 5 G.C. with F.P.D. (Not UKAS Accredited)
 † Not UKAS Accredited

Customer Analytical Requirements CO ₂ , O ₂ , CO, H ₂ , N ₂ , CH ₄ , H ₂ S	Authorised by Daniel Bignell
Comment Box	

Authorised by:

Analyst: Stephen Bass

Issue Date: 02 October 2024

SOCOTEC accepts no responsibility for the collection of any of the samples referred to in this report.

Daniel Bignell, Quality Manager -SLA
Direct Dial: 01 283 554461

Final Report

Report No.: 24-29165-1
Initial Date of Issue: 26-Sep-2024

Re-Issue Details:

Client Concept Engineering Consultants

Client Address: 47 - 49 Brunel Road
 London
 W3 7XR

Contact(s): Kasia Mazerant
 Lab
 Gabriela Mandache

Project 24/3980 Thorney Lane

Quotation No.: Q24-34527 **Date Received:** 06-Sep-2024

Order No.: 103508 (CL6237) **Date Instructed:** 11-Sep-2024

No. of Samples: 1

Turnaround (Wkdays): 12 **Results Due:** 26-Sep-2024

Date Approved: 26-Sep-2024 **Subcon Results Due:** 02-Oct-2024

Approved By:



Details: David Smith, Technical Director

For details about application of accreditation to specific matrix types, please refer to the Table at the back of this report

Results - Gas

Project: 24/3980 Thorney Lane

Client: Concept Engineering Consultants	Chemtest Job No.:	24-29165			
Quotation No.: Q24-34527	Chemtest Sample ID.:	1864518			
	Sample Location:	BH24-10			
	Sample Type:	GAS			
	Date Sampled:	09-Sep-2024			
Determinand	Accred.	SOP	Units	LOD	
Nitrogen (Subcon)	S		% v/v	0.50	84
Methane	S		% v/v	0.50	6.6
Carbon Monoxide	SN		% v/v	0.50	< 0.50
Carbon Dioxide	S		% v/v	0.50	1.3
Hydrogen	S		ppmv	50	< 50
Hydrogen Sulphide	S		% v/v	2.0	< 2.0
Oxygen	S		% v/v	0.50	5.3

Report Information

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>	"greater than"
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All Asbestos testing is performed at the indicated laboratory .

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

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt.

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

Charges may apply to extended sample storage.

Water Sample Category Key for Accreditation

- DW - Drinking Water
- GW - Ground Water
- LE - Land Leachate

Report Information

NA - Not Applicable
PL - Prepared Leachate
PW - Processed Water
RE - Recreational Water
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SW - Surface Water
TE - Treated Effluent
TS - Treated Sewage
UL - Unspecified Liquid

Clean Up Codes

NC - No Clean Up
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FC - Florisil Clean Up

HWOL Acronym System

HS - Headspace analysis
EH - Extractable hydrocarbons – i.e. everything extracted by the solvent
CU - Clean-up – e.g. by Florisil, silica gel
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Total - Aliphatics & Aromatics
AL - Aliphatics only
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2D - GC-GC – Double coil gas chromatography
#1 - EH_2D_Total but with humics mathematically subtracted
#2 - EH_2D_Total but with fatty acids mathematically subtracted
+ - Operator to indicate cumulative e.g. EH+EH_Total or EH_CU+HS_Total

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



1015

TEST REPORT

The results relate only to the items tested, calibrated or sampled



GAS ANALYSIS

Customer: Chemtest Limited, Depot Road, Newmarket, CB8 0AL

Date Received: 16 September 2024 Date Sampled: 09 September 2024

Report N° GA15712 Rev 1

Date Analysed: 26 September 2024 Site: 24-29165

SAMPLE REFERENCE	Analysis % V/V						
	Carbon Dioxide (CO ₂)	Oxygen (O ₂)	Carbon Monoxide (CO)	Hydrogen (H ₂)	Nitrogen (N ₂)	Methane (CH ₄)	Hydrogen Sulphide (H ₂ S)†
Method of Analysis	6	4	6	4	4	3	5
1864518 (BH24-10)	1.26	5.3	<0.0005	<0.0005	84	6.58	<0.0001

Method of 3 G.C. with F.I.D. - ENV/GAS03 6 G.C. with F.I.D. - ENV/GAS09
 Analysis:- 4 G.C. with T.C.D. - ENV/GAS09
 5 G.C. with F.P.D. (Not UKAS Accredited)
 † Not UKAS Accredited

Customer Analytical Requirements CO ₂ , O ₂ , CO, H ₂ , N ₂ , CH ₄ , H ₂ S	Authorised by Daniel Bignell
Comment Box	

Authorised by:

Analyst: Stephen Bass

Issue Date: 17 October 2024

SOCOTEC accepts no responsibility for the collection of any of the samples referred to in this report.

Daniel Bignell, Quality Manager -SLA
Direct Dial: 01 283 554461



RESULTS OF BULK SAMPLING AND ASBESTOS IDENTIFICATION AT THORNEY LANE, THORNEY BUSINESS PARK, IVOR SL0 9EE.

CLIENT REFERENCE: N/A

Report Number 4RS-JP-240126-R753601

Prepared for:

Ana Devila,
Geologist - Project Co-ordinator,
Concept Consultants,
218 Northfields Ave,
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Prepared by:

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Delivery & Office Manager

Certified by:

Adam Healey
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Issue Date:

5th August 2024

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Registered in England and Wales No. 3256863



1931

RESULTS OF BULK SAMPLING AND ASBESTOS IDENTIFICATION AT THORNEY LANE, THORNEY BUSINESS PARK, IVOR SL0 9EE.

REPORT REVISION	ISSUE DATE	REVISION DETAILS
INITIAL ISSUE	5 TH AUGUST 2024	-

CONDITIONS OF ISSUE OF REPORTS.

THIS REPORT IS ISSUED IN CONFIDENCE AND SHALL NOT BE REPRODUCED, EXCEPT IN FULL, WITHOUT WRITTEN APPROVAL FROM 4-RAIL SERVICES.

FURTHER INFORMATION.

REQUESTS FOR ADDITIONAL INFORMATION ON THE SUBJECT OF THIS REPORT OR OTHER QUERIES SHOULD BE ADDRESSED TO THE AUTHOR.

RESULTS OF BULK SAMPLING AND ASBESTOS IDENTIFICATION AT THORNEY LANE, THORNEY BUSINESS PARK, IVOR SL0 9EE.

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- 3.0 TEST METHOD 4
- 4.0 RESULTS..... 4
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RESULTS OF BULK SAMPLING AND ASBESTOS IDENTIFICATION AT THORNEY LANE, THORNEY BUSINESS PARK, IVOR SL0 9EE.

1.0 INTRODUCTION

4-RAIL Services Limited were requested by Ana Devila, Geologist - Project Co-ordinator, Concept Consultants to attend site to undertake sampling of materials suspected to contain asbestos from Thorney Lane, Thorney Business Park, Ivor SL0 9EE.

The contact on site was Ethen Pacquette.

2.0 SAMPLING STRATEGY

Samples were taken in accordance with the procedures described in the HSE Document HSG 264: Asbestos: The Survey Guide and In-House Inspection Procedure 4R-E200.

3.0 TEST METHOD

Samples were examined in accordance with the methods described in the HSE document HSG 248 Asbestos: The Analysts' Guide and In-House Test Procedure 4R-E220.

The results relate only to the samples submitted for testing. Where samples have been taken by others, 4-RAIL Services Limited do not accept any responsibility for the sampling.

Samples examined will be retained by 4-RAIL Services Limited for a period of 6 months, unless otherwise specified by the Client.

4.0 RESULTS

Eleven samples were taken during traffic hours on 1st August 2024 by Ming Kwan Shek of 4-RAIL Services Limited and received by the laboratory on 2nd August 2024.

Analysis of the samples was undertaken by Petar Koychev of 4-RAIL Services Limited on 2nd August 2024.

None of the samples were found to contain asbestos.

See Table 1 for a description of each sample and the sample analysis results.

See Figures 1 – 11 for photographs showing all materials sampled.

See Appendix 1 for plans detailing exact sampling locations. Where asbestos has been identified in a sample this is marked in **red**. Where no asbestos has been detected in a sample this is marked in **black**.

RESULTS OF BULK SAMPLING AND ASBESTOS IDENTIFICATION AT THORNEY LANE, THORNEY BUSINESS PARK, IVOR SL0 9EE.

Table 1: Results of Analysis of Bulk Samples taken at Thorney Lane, Thorney Business Park, Ivor SL0 9EE

4RS SAMPLE NUMBER	LOCATION	TYPE OF MATERIAL SAMPLED*	SAMPLE TYPE	AMOUNT	ASBESTOS TYPE(S) DETECTED	FIGURE
240126/010824/01	National Grid: 502810, 180060	Debris/ dust to ground	Debris	25m ²	None Detected	Fig 1
240126/010824/02	National Grid: 502810, 180000	Debris/ dust to ground	Debris	25m ²	None Detected	Fig 2
240126/010824/03	National Grid: 502840, 179910	Debris/ dust to ground	Debris	10m ²	None Detected	Fig 3
240126/010824/04	National Grid: 502910, 179910	Debris/ dust to ground	Debris	20m ²	None Detected	Fig 4
240126/010824/05	National Grid: 503030, 179900	Debris/ dust to ground	Debris	10m ²	None Detected	Fig 5
240126/010824/06	National Grid: 503070, 179970	Soil to ground	Debris	200m ²	None Detected	Fig 6
240126/010824/07	National Grid: 503010, 180110	Debris/ dust to ground	Debris	20m ²	None Detected	Fig 7
240126/010824/08	National Grid: 503050, 180170	Debris/ dust to ground	Debris	20m ²	None Detected	Fig 8
240126/010824/09	National Grid: 502980, 180070	Debris/ dust to ground	Debris	25m ²	None Detected	Fig 9
240126/010824/10	National Grid: 502980, 180140	Debris/ dust to ground	Debris	30m ²	None Detected	Fig 10
240126/010824/11	National Grid: 502900, 180050	Debris/ dust to ground	Debris	25m ²	None Detected	Fig 11

* Type of Material Sampled is outside the scope of the UKAS accreditation

RESULTS OF BULK SAMPLING AND ASBESTOS IDENTIFICATION AT THORNEY LANE, THORNEY BUSINESS PARK, IVOR SL0 9EE.

Figure 1: SAMPLE REFERENCE 240126/010824/01. This Sample Did Not Contain Asbestos



RESULTS OF BULK SAMPLING AND ASBESTOS IDENTIFICATION AT THORNEY LANE, THORNEY BUSINESS PARK, IVOR SL0 9EE.

Figure 2: SAMPLE REFERENCE 240126/010824/02. This Sample Did Not Contain Asbestos



RESULTS OF BULK SAMPLING AND ASBESTOS IDENTIFICATION AT THORNEY LANE, THORNEY BUSINESS PARK, IVOR SL0 9EE.

Figure 3: SAMPLE REFERENCE 240126/010824/03. This Sample Did Not Contain Asbestos



RESULTS OF BULK SAMPLING AND ASBESTOS IDENTIFICATION AT THORNEY LANE, THORNEY BUSINESS PARK, IVOR SL0 9EE.

Figure 4: SAMPLE REFERENCE 240126/010824/04 This Sample Did Not Contain Asbestos



RESULTS OF BULK SAMPLING AND ASBESTOS IDENTIFICATION AT THORNEY LANE, THORNEY BUSINESS PARK, IVOR SL0 9EE.

Figure 5: SAMPLE REFERENCE 240126/010824/05 This Sample Did Not Contain Asbestos



RESULTS OF BULK SAMPLING AND ASBESTOS IDENTIFICATION AT THORNEY LANE, THORNEY BUSINESS PARK, IVOR SL0 9EE.

Figure 6: SAMPLE REFERENCE 240126/010824/06. This Sample Did Not Contain Asbestos



RESULTS OF BULK SAMPLING AND ASBESTOS IDENTIFICATION AT THORNEY LANE, THORNEY BUSINESS PARK, IVOR SL0 9EE.

Figure 7: SAMPLE REFERENCE 240126/010824/07. This Sample Did Not Contain Asbestos



RESULTS OF BULK SAMPLING AND ASBESTOS IDENTIFICATION AT THORNEY LANE, THORNEY BUSINESS PARK, IVOR SL0 9EE.

Figure 8: SAMPLE REFERENCE 240126/010824/08. This Sample Did Not Contain Asbestos



RESULTS OF BULK SAMPLING AND ASBESTOS IDENTIFICATION AT THORNEY LANE, THORNEY BUSINESS PARK, IVOR SL0 9EE.

Figure 9: SAMPLE REFERENCE 240126/010824/09., This Sample Did Not Contain Asbestos



RESULTS OF BULK SAMPLING AND ASBESTOS IDENTIFICATION AT THORNEY LANE, THORNEY BUSINESS PARK, IVOR SL0 9EE.

Figure 10: SAMPLE REFERENCE 240126/010824/10. This Sample Did Not Contain Asbestos

