

## **Report Information**

### Report No.: 21-32949, issue number 1

Key

ney	
U	hold UKAS accreditation
Μ	hold MCERTS and UKAS accreditation
Ν	do not currently hold UKAS accreditation
۸	MCERTS accreditation not applicable for sample matrix
*	UKAS accreditation not applicable for sample matrix
S	Subcontracted to approved laboratory UKAS Accredited for the test
SM	Subcontracted to approved laboratory MCERTS/UKAS Accredited for the test
NS	Subcontracted to approved laboratory. UKAS accreditation is not applicable.
I/S	Insufficient Sample
U/S	Unsuitable sample
n/t	Not tested
<	means "less than"
>	means "greater than"
LOD	LOD refers to limit of detection, except in the case of pH soils and pH waters where it means limit of discrimination.
	Soil sample results are expressed on an air dried basis (dried at < 30°C), and are uncorrected for inert material removed.
	ELAB are unable to provide an interpretation or opinion on the content of this report.
	The results relate only to the sample received.
	PCB congener results may include any coeluting PCBs
	Uncertainty of measurement for the determinands tested are available upon request
	Unless otherwise stated, sample information has been provided by the client. This may
	affect the validity of the results.
Deviation	Codes
а	No date of sampling supplied
b	No time of sampling supplied (Waters Only)
С	Sample not received in appropriate containers

- d Sample not received in cooled condition
- e The container has been incorrectly filled
- f Sample age exceeds stability time (sampling to receipt)
- g Sample age exceeds stability time (sampling to analysis)

Where a sample has a deviation code, the applicable test result may be invalid.

### Sample Retention and Disposal

All soil samples will be retained for a period of one month All water samples will be retained for 7 days following the date of the test report Charges may apply to extended sample storage



Unit A2 Windmill Road Ponswood Industrial Estate St Leonards on Sea East Sussex TN38 9BY Telephone: (01424) 718618

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### THE ENVIRONMENTAL LABORATORY LTD

Analytical Report Number:	21-32955
Issue:	1
Date of Issue:	06/04/2021
Contact:	Sam Parry
Customer Details:	CC Geotechnical Ltd Unit 1 & 2 Deltic Place Deltic Way Liverpool MersevsideL33 7BA
Quotation No:	Q17-00806
Order No:	Not Supplied
Customer Reference:	CCG-C-21-12093
Date Received:	31/03/2021
Date Approved:	06/04/2021
Details:	Cottam Parkway Station
Approved by:	e Va

Mike Varley, Technical Manager

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## Sample Summary

Report No.: 21-32955, issue number 1

Elab No.	Client's Ref.	<b>Date Sampled</b>	Date Scheduled	Description	Deviations
232154	WS01 1.50	25/03/2021	31/03/2021	Clayey loam	



Report No.: 21-32955, issue number 1

	232154							
	Reference							
	Sample ID							
		Sa	mple Type	SOIL				
		Sampl	e Location	WS01				
	5	Sample	Depth (m)	1.50				
		Sam	pling Date	25/03/2021				
Determinand	Codes	Units	LOD					
Soil sample preparation parameter	ers							
Material removed	N	%	0.1	< 0.1				
Description of Inert material removed	N		0	None				
Anions								
Water Soluble Sulphate	М	g/l	0.02	0.02				
Inorganics								
Acid Soluble Sulphate (SO4)	U	%	0.02	< 0.02				

1



Method Summary Report No.: 21-32955, issue number 1

Parameter		Analysis Undertaken On	Date Tested	Method Number	Technique
Soil					
Acid Soluble Sulphate	U	Air dried sample	06/04/2021	115	Ion Chromatography
Water soluble anions	М	Air dried sample	01/04/2021	172	Ion Chromatography



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### THE ENVIRONMENTAL LABORATORY LTD

Analytical Report Number:	21-32950
Issue:	1
Date of Issue:	07/04/2021
Contact:	Sam Parry
Customer Details:	CC Geotechnical Ltd Unit 1 & 2 Deltic Place Deltic Way Liverpool MersevsideL33 7BA
Quotation No:	Q17-00806
Order No:	Not Supplied
Customer Reference:	CCG-C-21-12093
Date Received:	31/03/2021
Date Approved:	07/04/2021
Details:	Cottam Parkway Substation
Approved by:	e Na

Mike Varley, Technical Manager

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## Sample Summary

Report No.: 21-32950, issue number 1

Elab No.	Client's Ref.	<b>Date Sampled</b>	Date Scheduled	Description	Deviations
232149	WS02 0.65	26/03/2021	31/03/2021	Silty clayey loam	



Report No.: 21-32950, issue number 1

ELAB Reference							
			Sample ID				
		Sa	, mple Type	SOIL			
		Sampl	e Location	WS02			
		Sample	Depth (m)	0.65			
		Sam	pling Date	26/03/2021			
Determinand	Codes	Units		20/00/2021			
Soil sample preparation paramet	ers	onito	LOD				
Material removed		%	0.1	< 0.1			
Description of Inert material removed	N	70	0.1	None			
			Ū	None			
		//	4	10.0			
Arsenic	M	mg/kg	1	12.2			
Cadmium	M	mg/kg	0.5	< 0.5			
Chromium	M	mg/kg	5	43.9			
Copper	M	mg/kg	5	18.4			
Lead	M	mg/kg	5	14.5			
Mercury	M	mg/kg	0.5	< 0.5			
Nickel	M	mg/kg	5	42.9			
Selenium	M	mg/kg	1	< 1.0			
Zinc	M	mg/kg	5	51.3			
Inorganics							
Total Sulphide	N	mg/kg	2	< 2			
Acid Soluble Sulphate (SO4)	U	%	0.02	< 0.02			
Water Soluble Boron	N	mg/kg	0.5	< 0.5			
Miscellaneous							
Fraction of Organic Carbon	N		0.0001	0.0041			
pH	М	pH units	0.1	7.1			
Polyaromatic hydrocarbons							
Naphthalene	М	mg/kg	0.1	< 0.1			
Acenaphthylene	М	mg/kg	0.1	< 0.1			
Acenaphthene	М	mg/kg	0.1	< 0.1			
Fluorene	М	mg/kg	0.1	< 0.1			
Phenanthrene	М	mg/kg	0.1	< 0.1			
Anthracene	М	mg/kg	0.1	< 0.1			
Fluoranthene	М	mg/kg	0.1	< 0.1			
Pyrene	М	mg/kg	0.1	< 0.1			
Benzo(a)anthracene	М	mg/kg	0.1	< 0.1			
Chrysene	М	mg/kg	0.1	< 0.1			
Benzo(b)fluoranthene	М	mg/kg	0.1	< 0.1			
Benzo(k)fluoranthene	М	mg/kg	0.1	< 0.1			
Benzo(a)pyrene	М	mg/kg	0.1	< 0.1			
Indeno(1,2,3-cd)pyrene	М	mg/kg	0.1	< 0.1			
Dibenzo(a,h)anthracene	М	mg/kg	0.1	< 0.1			
Benzo[g,h,i]perylene	М	mg/kg	0.1	< 0.1			
Total PAH(16)	М	mg/kg	0.4	< 0.4			



### Report No.: 21-32950, issue number 1

	232149						
	Customer Reference						
	Sample ID						
		50		5011			
		Ja	inple Type	SUL			
		Sampl	e Location	WS02			
		Sample	Depth (m)	0.65			
		Sam	pling Date	26/03/2021			
Determinand	Codes	Units	LOD				
TPH CWG							
>C5-C6 Aliphatic	N	mg/kg	0.01	< 0.01			
>C6-C8 Aliphatic	N	mg/kg	0.01	< 0.01			
>C8-C10 Aliphatic	N	mg/kg	1	< 1.0			
>C10-C12 Aliphatic	N	mg/kg	1	< 1.0			
>C12-C16 Aliphatic	N	mg/kg	1	< 1.0			
>C16-C21 Aliphatic	N	mg/kg	1	< 1.0			
>C21-C35 Aliphatic	N	mg/kg	1	< 1.0			
>C35-C40 Aliphatic	N	mg/kg	1	< 1.0			
>C5-C7 Aromatic	N	mg/kg	0.01	< 0.01			
>C7-C8 Aromatic	N	mg/kg	0.01	< 0.01			
>C8-C10 Aromatic	N	mg/kg	1	< 1.0			
>C10-C12 Aromatic	N	mg/kg	1	< 1.0			
>C12-C16 Aromatic	N	mg/kg	1	< 1.0			
>C16-C21 Aromatic	N	mg/kg	1	< 1.0			
>C21-C35 Aromatic	N	mg/kg	1	< 1.0			
>C35-C40 Aromatic	N	mg/kg	1	< 1.0			
Total (>C5-C40) Ali/Aro	N	mg/kg	1	< 1.0			
Total Petroleum Hydrocarbons							
PAH Fingerprint	N	n/a	0	n/a			
TPH Fingerprint	N	n/a	0	n/a			



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## **Results Summary**

Report No.: 21-32950, issue number 1

### **Asbestos Results**

Analytical result only applies to the sample as submitted by the client. Any comments, opinions or interpretations (marked #) in this report are outside UKAS accreditation (Accreditation No2683). They are subjective comments only which must be verified by the client.

Elab No	Depth (m)	Clients Reference	Description of Sample Matrix #	Asbestos Identification	Gravimetric	Gravimetric	Free Fibre	Total
					Analysis Total	Analysis by ACM	Analysis	Asbestos
					(%)	Type (%)	(%)	(%)
232149	0.65	WS02	Brown soil, stones	No asbestos detected	n/t	n/t	n/t	n/t



Method Summary Report No.: 21-32950, issue number 1

Baramatar	Codeo	Analysis Undertaken	Date	Method	Teebrique
	Coues	On	Tested	Number	rechnique
Soil					
Sulphide	N	As submitted sample	01/04/2021	109	Colorimetry
рН	М	Air dried sample	06/04/2021	113	Electromeric
Acid Soluble Sulphate	U	Air dried sample	06/04/2021	115	Ion Chromatography
PAH (GC-FID)	М	As submitted sample	01/04/2021	133	GC-FID
Low range Aliphatic hydrocarbons soil	N	As submitted sample	01/04/2021	181	GC-MS
Low range Aromatic hydrocarbons soil	N	As submitted sample	01/04/2021	181	GC-MS
Water soluble boron	N	Air dried sample	01/04/2021	202	Colorimetry
Total organic carbon/Total sulphur	N	Air dried sample	06/04/2021	210	IR
Aliphatic hydrocarbons in soil	N	As submitted sample	01/04/2021	214	GC-FID
Aliphatic/Aromatic hydrocarbons in soil	N	As submitted sample	06/04/2021	214	GC-FID
Aromatic hydrocarbons in soil	N	As submitted sample	01/04/2021	214	GC-FID
Asbestos identification	U	Air dried sample	07/04/2021	280	Microscopy
Aqua regia extractable metals	M	Air dried sample	01/04/2021	300	ICPMS

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Contact:	Sam Parry
Customer Details:	CC Geotechnical Ltd Unit 1 & 2 Deltic Place Deltic Way Liverpool MersevsideL33 7BA
Quotation No:	Q17-00806
Order No:	Not Supplied
Customer Reference:	CCG-C-21-12093
Date Received:	31/03/2021
Date Approved:	07/04/2021

Analytical Report Number: 21-32951

Details:

Cottam Parkway Station

Approved by:

Mike Varley, Technical Manager

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## Sample Summary

Report No.: 21-32951, issue number 1

Elab No.	Client's Ref.	<b>Date Sampled</b>	Date Scheduled	Description	Deviations
232150	WS03 0.10	26/03/2021	31/03/2021	Silty loam	



Report No.: 21-32951, issue number 1

	Reference	232150				
	Customer Reference					
		Ś	Sample ID			
		Sar	nple Type	SOIL		
		Sample	e Location	WS03		
		Sample	Depth (m)	0.10		
		Sam	nling Date	26/03/2021		
Determinand	Codee	Unito		20/03/2021		
Soil sample preparation paramet	LOD					
	N	0/2	0.1	< 0.1		
Description of Inert material removed	N	70	0.1	None		
			0			
	<b>N</b> 4		4	10.0		
Arsenic		mg/kg	0.5	10.8		
Caumium		mg/kg	0.5	< 0.5		
Corpor		mg/kg	5	35.8		
Copper		mg/kg	5	24.4		
Lead		mg/kg	5	38.0		
Niekel		mg/kg	0.5	< 0.5		
		mg/kg	C d	25.0		
		mg/kg	1	< 1.0		
	IVI	тд/кд	5	69.0		
Inorganics						
Total Sulphide	N	mg/kg	2	< 2		
Acid Soluble Sulphate (SO4)	U	%	0.02	0.03		
Water Soluble Boron	N	mg/kg	0.5	< 0.5		
Miscellaneous						
Fraction of Organic Carbon	N		0.0001	0.0200		
рН	М	pH units	0.1	6.4		
Polyaromatic hydrocarbons						
Naphthalene	М	mg/kg	0.1	< 0.1		
Acenaphthylene	М	mg/kg	0.1	< 0.1		
Acenaphthene	М	mg/kg	0.1	< 0.1		
Fluorene	М	mg/kg	0.1	< 0.1		
Phenanthrene	М	mg/kg	0.1	0.7		
Anthracene	М	mg/kg	0.1	0.2		
Fluoranthene	М	mg/kg	0.1	1.1		
Pyrene	М	mg/kg	0.1	1.0		
Benzo(a)anthracene	М	mg/kg	0.1	0.6		
Chrysene	М	mg/kg	0.1	0.6		
Benzo(b)fluoranthene	М	mg/kg	0.1	0.5		
Benzo(k)fluoranthene	M	mg/kg	0.1	0.7		
Benzo(a)pyrene	M	mg/kg	0.1	0.5		
Indeno(1,2,3-cd)pyrene	M	mg/kg	0.1	0.4		
Dibenzo(a,h)anthracene	M	mg/kg	0.1	0.1		
Benzo[g,h,i]perylene	М	mg/kg	0.1	0.3		
Total PAH(16)	М	mg/kg	0.4	6.9		



### Report No.: 21-32951, issue number 1

ELAB Reference							
Customer Reference							
Sample I							
	Sa	mple Type	SOIL				
	Sampl	e Location	WS03				
	Sampla	Dopth (m)	0.10				
	Sample		0.10				
	Sam	pling Date	26/03/2021				
Codes	Units	LOD					
N	mg/kg	0.01	< 0.01				
N	mg/kg	0.01	< 0.01				
N	mg/kg	1	< 1.0				
N	mg/kg	1	< 1.0				
N	mg/kg	1	< 1.0				
N	mg/kg	1	< 1.0				
N	mg/kg	1	< 1.0				
N	mg/kg	1	< 1.0				
N	mg/kg	0.01	< 0.01				
N	mg/kg	0.01	< 0.01				
N	mg/kg	1	< 1.0				
N	mg/kg	1	< 1.0				
N	mg/kg	1	< 1.0				
N	mg/kg	1	< 1.0				
N	mg/kg	1	< 1.0				
N	mg/kg	1	< 1.0				
N	mg/kg	1	< 1.0				
N	n/a	0	probable pyrogenic source				
N	n/a	0	n/a				
	Codes N N N N N N N N N N N N N N N N N N N	ELAB Customer Sa Sample Sample Sample Sample Sample Namg/kg N mg/kg N mg/kg	ELAB Reference       Customer Reference       Sample ID       Sample Type       Sample Location       Sample Location       Sample Location       Sample Depth (m)       Sampling Date       Codes     Units       N     mg/kg       N     mg/kg <				



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## **Results Summary**

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Elab No	Depth (m)	Clients Reference	Description of Sample Matrix #	Asbestos Identification	Gravimetric	Gravimetric	Free Fibre	Total
					Analysis Total	Analysis by ACM	Analysis	Asbestos
					(%)	Type (%)	(%)	(%)
232150	0.10	WS03	Brown soil, stones, clinker	No asbestos detected	n/t	n/t	n/t	n/t



Method Summary Report No.: 21-32951, issue number 1

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	Coues	On	Tested	Number	rechnique
Soil					
Sulphide	N	As submitted sample	01/04/2021	109	Colorimetry
рН	М	Air dried sample	06/04/2021	113	Electromeric
Acid Soluble Sulphate	U	Air dried sample	06/04/2021	115	Ion Chromatography
PAH (GC-FID)	М	As submitted sample	01/04/2021	133	GC-FID
Low range Aliphatic hydrocarbons soil	N	As submitted sample	01/04/2021	181	GC-MS
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Total organic carbon/Total sulphur	N	Air dried sample	06/04/2021	210	IR
Aliphatic hydrocarbons in soil	N	As submitted sample	01/04/2021	214	GC-FID
Aliphatic/Aromatic hydrocarbons in soil	N	As submitted sample	06/04/2021	214	GC-FID
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Deviation	anect the value of the results.
Deviation	
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## Sample Summary

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Elab No.	Client's Ref.	Date Sampled	Date Scheduled	Description	Deviations
232156	WS04 1.00	25/03/2021	31/03/2021	Silty clayey loam	



Report No.: 21-32957, issue number 1

	232156				
	Reference				
			Sample ID		
		Sa	mple Type	SOIL	
		Sampl	e Location	WS04	
	5	Sample	Depth (m)	1.00	
		Sam	pling Date	25/03/2021	
Determinand	Codes	Units	LOD		
Soil sample preparation parameters					
Material removed	N	%	0.1	< 0.1	
Description of Inert material removed	N		0	None	
Anions					
Water Soluble Sulphate	М	g/l	0.02	< 0.02	
Inorganics					
Acid Soluble Sulphate (SO4)	U	%	0.02	< 0.02	

1



Method Summary Report No.: 21-32957, issue number 1

Parameter	Codes	Analysis Undertaken On	Date Tested	Method Number	Technique
Soil					
Acid Soluble Sulphate	U	Air dried sample	06/04/2021	115	Ion Chromatography
Water soluble anions	М	Air dried sample	01/04/2021	172	Ion Chromatography



## **Report Information**

### Report No.: 21-32957, issue number 1

Key

ney	
U	hold UKAS accreditation
М	hold MCERTS and UKAS accreditation
Ν	do not currently hold UKAS accreditation
۸	MCERTS accreditation not applicable for sample matrix
*	UKAS accreditation not applicable for sample matrix
S	Subcontracted to approved laboratory UKAS Accredited for the test
SM	Subcontracted to approved laboratory MCERTS/UKAS Accredited for the test
NS	Subcontracted to approved laboratory. UKAS accreditation is not applicable.
I/S	Insufficient Sample
U/S	Unsuitable sample
n/t	Not tested
<	means "less than"
>	means "greater than"
LOD	LOD refers to limit of detection, except in the case of pH soils and pH waters where it means limit of discrimination.
	Soil sample results are expressed on an air dried basis (dried at < 30°C), and are uncorrected for inert material removed.
	ELAB are unable to provide an interpretation or opinion on the content of this report.
	The results relate only to the sample received.
	PCB congener results may include any coeluting PCBs
	Uncertainty of measurement for the determinands tested are available upon request
	Unless otherwise stated, sample information has been provided by the client. This may
	affect the validity of the results.
Deviation	Codes
а	No date of sampling supplied
b	No time of sampling supplied (Waters Only)
С	Sample not received in appropriate containers

- d Sample not received in cooled condition
- e The container has been incorrectly filled
- f Sample age exceeds stability time (sampling to receipt)
- g Sample age exceeds stability time (sampling to analysis)

Where a sample has a deviation code, the applicable test result may be invalid.

### Sample Retention and Disposal

All soil samples will be retained for a period of one month All water samples will be retained for 7 days following the date of the test report Charges may apply to extended sample storage



Unit A2 Windmill Road Ponswood Industrial Estate St Leonards on Sea East Sussex TN38 9BY Telephone: (01424) 718618

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### THE ENVIRONMENTAL LABORATORY LTD

Analytical Report Number:	21-33092
Issue:	1
Date of Issue:	15/04/2021
Contact:	Sam Parry
Customer Details:	CC Geotechnical Ltd Unit 1 & 2 Deltic Place Deltic Way Liverpool MersevsideL33 7BA
Quotation No:	Q17-00806
Order No:	Not Supplied
Customer Reference:	CCG-C-21-12093
Date Received:	08/04/2021
Date Approved:	15/04/2021
Details:	Cottam Parkway Station
Approved by:	L)Vn

Mike Varley, Technical Manager

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## Sample Summary

Report No.: 21-33092, issue number 1

Elab No.	Client's Ref.	<b>Date Sampled</b>	Date Scheduled	Description	Deviations
232869	WS04 0.70	26/03/2021	08/04/2021	Silty clayey loam	



Report No.: 21-33092, issue number 1

	232869							
	Sample ID							
		Sa	mple Type	SOIL				
		Sampl	e Location	WS04				
	5	Sample	Depth (m)	0.70				
		Sam	pling Date	26/03/2021				
Determinand	Codes	Units	LOD					
Soil sample preparation paramet	ers							
Material removed	N	%	0.1	< 0.1				
Description of Inert material removed	N		0	None				
Anions								
Water Soluble Sulphate	М	g/l	0.02	< 0.02				
Inorganics								
Acid Soluble Sulphate (SO4)	U	%	0.02	< 0.02				

1



Method Summary Report No.: 21-33092, issue number 1

Parameter		Analysis Undertaken On	Date Tested	Method Number	Technique
Soil					
Acid Soluble Sulphate	U	Air dried sample	15/04/2021	115	Ion Chromatography
Water soluble anions	М	Air dried sample	13/04/2021	172	Ion Chromatography



## **Report Information**

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### THE ENVIRONMENTAL LABORATORY LTD

Analytical Report Number:	21-32952		
Issue:	1		
Date of Issue:	06/04/2021		
Contact:	Sam Parry		
Customer Details:	CC Geotechnical Ltd Unit 1 & 2 Deltic Place Deltic Way Liverpool MersevsideL33 7BA		
Quotation No:	Q17-00806		
Order No:	Not Supplied		
Customer Reference:	CCG-C-21-12093		
Date Received:	26/03/2021		
Date Approved:	06/04/2021		
Details:	Cottam Parkway Station		
Approved by:	L)Vn		

Mike Varley, Technical Manager

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## Sample Summary

Report No.: 21-32952, issue number 1

Elab No.	Client's Ref.	Date Sampled	Date Scheduled	Description	Deviations
232151	WS04 0.70	26/03/2021	26/03/2021	Clayey loam	



Report No.: 21-32952, issue number 1

ELAB Reference								
	mple Type	SOIL						
Sample Location								
		Sample	Depth (m)	0.70				
		Sam	pling Date	26/03/2021				
Determinand	Codes	Units	LOD					
Soil sample preparation parameters								
Material removed	N	%	0.1	< 0.1				
Description of Inert material removed	N		0	None				
Metals								
Arsenic	М	ma/ka	1	16.3				
Cadmium	M	ma/ka	0.5	< 0.5				
Chromium	M	ma/ka	5	19.1				
Copper	M	ma/ka	5	9.5				
Lead	M	ma/ka	5	12.3				
Mercury	M	ma/ka	0.5	< 0.5				
Nickel	М	ma/ka	5	20.6				
Selenium	М	mg/kg	1	1.9				
Zinc	М	mg/kg	5	51.3				
Inorganics								
Total Sulphide	N	ma/ka	2	< 2				
Acid Soluble Sulphate (SO4)	U	%	0.02	< 0.02				
Water Soluble Boron	N	mg/kg	0.5	< 0.5				
Miscellaneous								
Fraction of Organic Carbon	N		0.0001	0.0066				
pH	М	pH units	0.1	8.3				
Polyaromatic hydrocarbons								
Naphthalene	М	mg/kg	0.1	< 0.1				
Acenaphthylene	М	mg/kg	0.1	< 0.1				
Acenaphthene	М	mg/kg	0.1	< 0.1				
Fluorene	М	mg/kg	0.1	< 0.1				
Phenanthrene	М	mg/kg	0.1	< 0.1				
Anthracene	М	mg/kg	0.1	< 0.1				
Fluoranthene	М	mg/kg	0.1	< 0.1				
Pyrene	M	mg/kg	0.1	< 0.1				
Benzo(a)anthracene	M	mg/kg	0.1	< 0.1				
Chrysene	M	mg/kg	0.1	< 0.1				
Benzo(b)fluoranthene	M	mg/kg	0.1	< 0.1				
Benzo(k)fluoranthene	M	mg/kg	0.1	< 0.1				
Benzo(a)pyrene	M	mg/kg	0.1	< 0.1				
Indeno(1,2,3-cd)pyrene	M	mg/kg	0.1	< 0.1				
Dibenzo(a,h)anthracene	M	mg/kg	0.1	< 0.1				
Benzo[g,h,i]perylene	M	mg/kg	0.1	< 0.1				
Total PAH(16)	М	mg/kg	0.4	< 0.4				



Report No.: 21-32952, issue number 1

ELAB Reference							
	Sample Type						
		Sampl	e Location	WS04			
		Sample	Depth (m)	0.70			
		Sam	pling Date	26/03/2021			
	<b>a</b> .			20/03/2021			
Determinand	Codes	Units	LOD				
TPH CWG							
>C5-C6 Aliphatic	N	mg/kg	0.01	< 0.01			
>C6-C8 Aliphatic	N	mg/kg	0.01	< 0.01			
>C8-C10 Aliphatic	N	mg/kg	1	< 1.0			
>C10-C12 Aliphatic	N	mg/kg	1	< 1.0			
>C12-C16 Aliphatic	N	mg/kg	1	< 1.0			
>C16-C21 Aliphatic	N	mg/kg	1	< 1.0			
>C21-C35 Aliphatic	N	mg/kg	1	< 1.0			
>C35-C40 Aliphatic	N	mg/kg	1	< 1.0			
>C5-C7 Aromatic	N	mg/kg	0.01	< 0.01			
>C7-C8 Aromatic	N	mg/kg	0.01	< 0.01			
>C8-C10 Aromatic	N	mg/kg	1	< 1.0			
>C10-C12 Aromatic	N	mg/kg	1	< 1.0			
>C12-C16 Aromatic	N	mg/kg	1	< 1.0			
>C16-C21 Aromatic	N	mg/kg	1	< 1.0			
>C21-C35 Aromatic	N	mg/kg	1	< 1.0			
>C35-C40 Aromatic	N	mg/kg	1	< 1.0			
Total (>C5-C40) Ali/Aro	N	mg/kg	1	< 1.0			
Total Petroleum Hydrocarbons							
PAH Fingerprint	N	n/a	0	n/a			
TPH Fingerprint	N	n/a	0	n/a			

-



Unit A2, Windmill Road, Ponswood Industrial Estate, St Leonards on Sea, East Sussex, TN38 9BY Tel: +44 (0)1424 718618, Email: info@elab-uk.co.uk, Web: www.elab-uk.co.uk

### **Results Summary**

Report No.: 21-32952, issue number 1

### Asbestos Results

Analytical result only applies to the sample as submitted by the client. Any comments, opinions or interpretations (marked #)

in this report are outside UKAS accreditation (Accreditation No2683). They are subjective comments only which must be verified by the client

Elab No Depth (m)	<b>Clients Reference</b>	Description of Sample Matrix #	Asbestos	Gravimetric Analysis Total	Gravimetric Analysis by ACM Type	Free Fibre Analysis	Total Asbestos
232151 0.70	WS04	Brown soil	No asbestos detected	n/t	n/t	n/t	n/t


Method Summary Report No.: 21-32952, issue number 1

Paramotor	Codes	Analysis Undertaken	Date	Method	Tochniquo
	Coues	On	Tested	Number	rechnique
Soil					
Sulphide	N	As submitted sample	01/04/2021	109	Colorimetry
рН	М	Air dried sample	06/04/2021	113	Electromeric
Acid Soluble Sulphate	U	Air dried sample	06/04/2021	115	Ion Chromatography
PAH (GC-FID)	M	As submitted sample	01/04/2021	133	GC-FID
Low range Aliphatic hydrocarbons soil	N	As submitted sample	01/04/2021	181	GC-MS
Low range Aromatic hydrocarbons soil	N	As submitted sample	01/04/2021	181	GC-MS
Water soluble boron	N	Air dried sample	01/04/2021	202	Colorimetry
Total organic carbon/Total sulphur	N	Air dried sample	06/04/2021	210	IR
Aliphatic hydrocarbons in soil	N	As submitted sample	01/04/2021	214	GC-FID
Aliphatic/Aromatic hydrocarbons in soil	N	As submitted sample	06/04/2021	214	GC-FID
Aromatic hydrocarbons in soil	N	As submitted sample	01/04/2021	214	GC-FID
Asbestos identification	U	Air dried sample	01/04/2021	280	Microscopy
Aqua regia extractable metals	M	Air dried sample	01/04/2021	300	ICPMS

Tests marked N are not UKAS accredited



## **Report Information**

#### Report No.: 21-32952, issue number 1

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n/t	Not tested
<	means "less than"
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Deviation	Codes
a	No date of sampling supplied
b	No time of sampling supplied (Waters Only)
c	Sample not received in appropriate containers

- d Sample not received in cooled condition
- e The container has been incorrectly filled
- f Sample age exceeds stability time (sampling to receipt)
- g Sample age exceeds stability time (sampling to analysis)

Where a sample has a deviation code, the applicable test result may be invalid.

#### Sample Retention and Disposal

All soil samples will be retained for a period of one month All water samples will be retained for 7 days following the date of the test report Charges may apply to extended sample storage



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### THE ENVIRONMENTAL LABORATORY LTD

Analytical Report Number:	21-32953
Issue:	1
Date of Issue:	08/04/2021
Contact:	Sam Parry
Customer Details:	CC Geotechnical Ltd Unit 1 & 2 Deltic Place Deltic Way Liverpool MersevsideL33 7BA
Quotation No:	Q17-00806
Order No:	Not Supplied
Customer Reference:	CCG-C-21-12093
Date Received:	31/03/2021
Date Approved:	08/04/2021
Details:	Cottam Parkway Station
Approved by:	e Va

Mike Varley, Technical Manager

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# Sample Summary

Report No.: 21-32953, issue number 1

Elab No.	Client's Ref.	<b>Date Sampled</b>	Date Scheduled	Description	Deviations
232152	WS05 0.20	26/03/2021	31/03/2021	Silty loam	



Report No.: 21-32953, issue number 1

ELAB Reference						
	Reference					
		:	Sample ID			
		Sa	, mple Type	SOIL		
		Sampl	e Location	WS05		
		Sample	Depth (m)	0.20		
		Sam	pling Date	26/03/2021		
Determinand	Codes	Units		20/00/2021		
Soil sample preparation parameters						
Material removed	N	%	0.1	< 0.1		
Description of Inert material removed	N	,,,	0	None		
Metals						
Argonia	N/	ma/ka	1	10.1		
Codmium		mg/kg	0.5	10.1		
Caulillum		mg/kg	0.5	< 0.5		
Controllium		mg/kg	5	27.0		
Copper		mg/kg	5	53.2		
Lead	IVI N4	mg/kg	5	57.4		
Marcury		mg/kg	0.5	< 0.5		
Nickel	M	mg/kg	5	21.4		
Selenium	M	mg/kg	1	< 1.0		
	M	mg/kg	5	108		
Inorganics						
Total Sulphide	N	mg/kg	2	< 2		
Acid Soluble Sulphate (SO4)	U	%	0.02	0.03		
Water Soluble Boron	N	mg/kg	0.5	0.7		
Miscellaneous						
Fraction of Organic Carbon	N		0.0001	0.0412		
рН	М	pH units	0.1	5.8		
Polyaromatic hydrocarbons						
Naphthalene	М	mg/kg	0.1	< 0.1		
Acenaphthylene	М	mg/kg	0.1	< 0.1		
Acenaphthene	М	mg/kg	0.1	< 0.1		
Fluorene	М	mg/kg	0.1	< 0.1		
Phenanthrene	М	mg/kg	0.1	< 0.1		
Anthracene	М	mg/kg	0.1	< 0.1		
Fluoranthene	М	mg/kg	0.1	0.1		
Pyrene	М	mg/kg	0.1	0.1		
Benzo(a)anthracene	М	mg/kg	0.1	< 0.1		
Chrysene	М	mg/kg	0.1	< 0.1		
Benzo(b)fluoranthene	М	mg/kg	0.1	< 0.1		
Benzo(k)fluoranthene	М	mg/kg	0.1	< 0.1		
Benzo(a)pyrene	М	mg/kg	0.1	< 0.1		
Indeno(1,2,3-cd)pyrene	М	mg/kg	0.1	< 0.1		
Dibenzo(a,h)anthracene	М	mg/kg	0.1	< 0.1		
Benzo[g,h,i]perylene	М	mg/kg	0.1	< 0.1		
Total PAH(16)	М	mg/kg	0.4	< 0.4		



Report No.: 21-32953, issue number 1

		ELAB	Reference	232152		
	C	Customer	Reference			
			Sample ID			
	Sampla Tura					
		04	inple Type	- SOIL		
		Sampl	e Location	WS05		
		Sample	Depth (m)	0.20		
		Sam	pling Date	26/03/2021		
Determinand	Codes	Units	LOD			
TPH CWG						
>C5-C6 Aliphatic	N	mg/kg	0.01	< 0.01		
>C6-C8 Aliphatic	N	mg/kg	0.01	< 0.01		
>C8-C10 Aliphatic	N	mg/kg	1	< 1.0		
>C10-C12 Aliphatic	N	mg/kg	1	< 1.0		
>C12-C16 Aliphatic	N	mg/kg	1	< 1.0		
>C16-C21 Aliphatic	N	mg/kg	1	< 1.0		
>C21-C35 Aliphatic	N	mg/kg	1	< 1.0		
>C35-C40 Aliphatic	N	mg/kg	1	< 1.0		
>C5-C7 Aromatic	N	mg/kg	0.01	< 0.01		
>C7-C8 Aromatic	N	mg/kg	0.01	< 0.01		
>C8-C10 Aromatic	N	mg/kg	1	< 1.0		
>C10-C12 Aromatic	N	mg/kg	1	< 1.0		
>C12-C16 Aromatic	N	mg/kg	1	< 1.0		
>C16-C21 Aromatic	N	mg/kg	1	< 1.0		
>C21-C35 Aromatic	N	mg/kg	1	< 1.0		
>C35-C40 Aromatic	N	mg/kg	1	< 1.0		
Total (>C5-C40) Ali/Aro	N	mg/kg	1	< 1.0		
Total Petroleum Hydrocarbons						
PAH Fingerprint	N	n/a	0	n/a		
TPH Fingerprint	N	n/a	0	n/a		



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#### **Results Summary**

Report No.: 21-32953, issue number 1

#### Asbestos Results

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Elab No Depth (m)	<b>Clients Reference</b>	Description of Sample Matrix #	Asbestos	Gravimetric Analysis Total	Gravimetric Analysis by ACM Type	Free Fibre Analysis	Total Asbestos
232152 0.20	WS05	Brown soil	No asbestos detected	n/t	n/t	n/t	n/t



Method Summary Report No.: 21-32953, issue number 1

Baramatar	Codeo	Analysis Undertaken	Date	Method	Teebnique
	Coues	On	Tested	Number	rechnique
Soil					
Sulphide	N	As submitted sample	01/04/2021	109	Colorimetry
рН	М	Air dried sample	06/04/2021	113	Electromeric
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PAH (GC-FID)	М	As submitted sample	01/04/2021	133	GC-FID
Low range Aliphatic hydrocarbons soil	N	As submitted sample	01/04/2021	181	GC-MS
Low range Aromatic hydrocarbons soil	N	As submitted sample	01/04/2021	181	GC-MS
Water soluble boron	N	Air dried sample	01/04/2021	202	Colorimetry
Total organic carbon/Total sulphur	N	Air dried sample	06/04/2021	210	IR
Aliphatic hydrocarbons in soil	N	As submitted sample	01/04/2021	214	GC-FID
Aliphatic/Aromatic hydrocarbons in soil	N	As submitted sample	06/04/2021	214	GC-FID
Aromatic hydrocarbons in soil	N	As submitted sample	01/04/2021	214	GC-FID
Asbestos identification	U	Air dried sample	07/04/2021	280	Microscopy
Aqua regia extractable metals	M	Air dried sample	01/04/2021	300	ICPMS

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## **Report Information**

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### THE ENVIRONMENTAL LABORATORY LTD

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Issue:	1
Date of Issue:	06/04/2021
Contact:	Sam Parry
Customer Details:	CC Geotechnical Ltd Unit 1 & 2 Deltic Place Deltic Way Liverpool MersevsideL33 7BA
Quotation No:	Q17-00806
Order No:	Not Supplied
Customer Reference:	CCG-C-21-12093
Date Received:	31/03/2021
Date Approved:	06/04/2021
Details:	Cottam Parkway Station
Approved by:	e Va

Mike Varley, Technical Manager

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# Sample Summary

Report No.: 21-32958, issue number 1

Elab No.	Client's Ref.	<b>Date Sampled</b>	Date Scheduled	Description	Deviations
232157	WS06 1.00	25/03/2021	31/03/2021	Clayey loam	



Report No.: 21-32958, issue number 1

	Reference	232157			
			Sample ID		
		Sa	mple Type	SOIL	
		Sampl	e Location	WS06	
	S	Sample	Depth (m)	1.00	
		Sam	pling Date	25/03/2021	
Determinand	Codes	Units	LOD		
Soil sample preparation paramet	ers				
Material removed	N	%	0.1	< 0.1	
Description of Inert material removed	cription of Inert material removed N 0				
Anions					
Water Soluble Sulphate	М	g/l	0.02	0.04	
Inorganics					
Acid Soluble Sulphate (SO4)	U	%	0.02	0.02	

1



Method Summary Report No.: 21-32958, issue number 1

Parameter	neter Codes Ar		Date Tested	Method Number	Technique
Soil					
Acid Soluble Sulphate	U	Air dried sample	06/04/2021	115	Ion Chromatography
Water soluble anions	М	Air dried sample	01/04/2021	172	Ion Chromatography



## **Report Information**

#### Report No.: 21-32958, issue number 1

Key

ney	
U	hold UKAS accreditation
Μ	hold MCERTS and UKAS accreditation
Ν	do not currently hold UKAS accreditation
۸	MCERTS accreditation not applicable for sample matrix
*	UKAS accreditation not applicable for sample matrix
S	Subcontracted to approved laboratory UKAS Accredited for the test
SM	Subcontracted to approved laboratory MCERTS/UKAS Accredited for the test
NS	Subcontracted to approved laboratory. UKAS accreditation is not applicable.
I/S	Insufficient Sample
U/S	Unsuitable sample
n/t	Not tested
<	means "less than"
>	means "greater than"
LOD	LOD refers to limit of detection, except in the case of pH soils and pH waters where it means limit of discrimination.
	Soil sample results are expressed on an air dried basis (dried at < 30°C), and are uncorrected for inert material removed.
	ELAB are unable to provide an interpretation or opinion on the content of this report.
	The results relate only to the sample received.
	PCB congener results may include any coeluting PCBs
	Uncertainty of measurement for the determinands tested are available upon request
	Unless otherwise stated, sample information has been provided by the client. This may
	affect the validity of the results.
Deviation	Codes
а	No date of sampling supplied
b	No time of sampling supplied (Waters Only)
С	Sample not received in appropriate containers

- d Sample not received in cooled condition
- e The container has been incorrectly filled
- f Sample age exceeds stability time (sampling to receipt)
- g Sample age exceeds stability time (sampling to analysis)

Where a sample has a deviation code, the applicable test result may be invalid.

#### Sample Retention and Disposal

All soil samples will be retained for a period of one month All water samples will be retained for 7 days following the date of the test report Charges may apply to extended sample storage



Unit A2 Windmill Road Ponswood Industrial Estate St Leonards on Sea East Sussex TN38 9BY Telephone: (01424) 718618

> cs@elab-uk.co.uk info@elab-uk.co.uk

### THE ENVIRONMENTAL LABORATORY LTD

Analytical Report Number:	21-32954
Issue:	1
Date of Issue:	07/04/2021
Contact:	Sam Parry
Customer Details:	CC Geotechnical Ltd Unit 1 & 2 Deltic Place Deltic Way Liverpool MersevsideL33 7BA
Quotation No:	Q17-00806
Order No:	Not Supplied
Customer Reference:	CCG-C-21-12093
Date Received:	31/03/2021
Date Approved:	07/04/2021
Details:	Cottam Parkway Station
Approved by:	e Va

Mike Varley, Technical Manager

Any comments, opinions or interpretations expressed herein are outside the scope of UKAS accreditation (Accreditation Number 2683

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## Sample Summary

Report No.: 21-32954, issue number 1

Elab No.	Client's Ref.	<b>Date Sampled</b>	Date Scheduled	Description	Deviations
232153	WS06 1.00	31/03/2021	31/03/2021	Clayey loam	



Report No.: 21-32954, issue number 1

ELAB Reference					
	Reference				
			Sample ID		
		Sa	mple Type	SOIL	
		Sampl	e Location	WS06	
		Sample	Depth (m)	1.00	
		' Sam	nling Date	31/03/2021	
Determinand	Codes	Units		01/00/2021	
Soil sample preparation parameters					
		0/2	0.1	< 0.1	
Description of Inert material removed	N	70	0.1	None	
Motolo			0	None	
wetais					
Arsenic	M	mg/kg	1	13.8	
Cadmium	M	mg/kg	0.5	< 0.5	
Chromium	M	mg/kg	5	30.6	
Copper	M	mg/kg	5	19.5	
Lead	M	mg/kg	5	13.7	
Mercury	M	mg/kg	0.5	< 0.5	
Nickel	М	mg/kg	5	34.6	
Selenium	М	mg/kg	1	< 1.0	
Zinc	М	mg/kg	5	54.6	
Inorganics					
Total Sulphide	N	mg/kg	2	< 2	
Acid Soluble Sulphate (SO4)	U	%	0.02	< 0.02	
Water Soluble Boron	N	mg/kg	0.5	< 0.5	
Miscellaneous					
Fraction of Organic Carbon	N		0.0001	0.0032	
pH	М	pH units	0.1	8.0	
Polyaromatic hydrocarbons					
Naphthalene	М	mg/kg	0.1	< 0.1	
Acenaphthylene	М	mg/kg	0.1	< 0.1	
Acenaphthene	М	mg/kg	0.1	< 0.1	
Fluorene	М	mg/kg	0.1	< 0.1	
Phenanthrene	М	mg/kg	0.1	< 0.1	
Anthracene	М	mg/kg	0.1	< 0.1	
Fluoranthene	М	mg/kg	0.1	< 0.1	
Pyrene	М	mg/kg	0.1	< 0.1	
Benzo(a)anthracene	М	mg/kg	0.1	< 0.1	
Chrysene	М	mg/kg	0.1	< 0.1	
Benzo(b)fluoranthene	М	mg/kg	0.1	< 0.1	
Benzo(k)fluoranthene	М	mg/kg	0.1	< 0.1	
Benzo(a)pyrene	М	mg/kg	0.1	< 0.1	
Indeno(1,2,3-cd)pyrene	М	mg/kg	0.1	< 0.1	
Dibenzo(a,h)anthracene	М	mg/kg	0.1	< 0.1	
Benzo[g,h,i]perylene	М	mg/kg	0.1	< 0.1	
Total PAH(16)	М	mg/kg	0.4	< 0.4	



Report No.: 21-32954, issue number 1

ELAB Reference					
	C	Sustomer	Reference		
			Sample ID		
Sample Type					
		Sampl	e Location	WS06	
		Sample	Depth (m)	1 00	
		Sam	nling Date	31/03/2021	
Determinand	Codes	Unite		01/00/2021	
	Coues	Units	LOD		
IPHCWG					
>C5-C6 Aliphatic	N	mg/kg	0.01	< 0.01	
>C6-C8 Aliphatic	N	mg/kg	0.01	< 0.01	
>C8-C10 Aliphatic	N	mg/kg	1	< 1.0	
>C10-C12 Aliphatic	N	mg/kg	1	< 1.0	
>C12-C16 Aliphatic	N	mg/kg	1	< 1.0	
>C16-C21 Aliphatic	N	mg/kg	1	< 1.0	
>C21-C35 Aliphatic	N	mg/kg	1	< 1.0	
>C35-C40 Aliphatic	N	mg/kg	1	< 1.0	
>C5-C7 Aromatic	N	mg/kg	0.01	< 0.01	
>C7-C8 Aromatic	N	mg/kg	0.01	< 0.01	
>C8-C10 Aromatic	N	mg/kg	1	< 1.0	
>C10-C12 Aromatic	N	mg/kg	1	< 1.0	
>C12-C16 Aromatic	N	mg/kg	1	< 1.0	
>C16-C21 Aromatic	N	mg/kg	1	< 1.0	
>C21-C35 Aromatic	N	mg/kg	1	< 1.0	
>C35-C40 Aromatic	N	mg/kg	1	< 1.0	
Total (>C5-C40) Ali/Aro	N	mg/kg	1	4.6	
Total Petroleum Hydrocarbons					
PAH Fingerprint	N	n/a	0	n/a	
TPH Fingerprint	N	n/a	0	n/a	

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Unit A2, Windmill Road, Ponswood Industrial Estate, St Leonards on Sea, East Sussex, TN38 9BY Tel: +44 (0)1424 718618, Email: info@elab-uk.co.uk, Web: www.elab-uk.co.uk

## **Results Summary**

Report No.: 21-32954, issue number 1

#### **Asbestos Results**

Analytical result only applies to the sample as submitted by the client. Any comments, opinions or interpretations (marked #) in this report are outside UKAS accreditation (Accreditation No2683). They are subjective comments only which must be verified by the client.

Elab No	Depth (m)	Clients Reference	Description of Sample Matrix #	Asbestos Identification	Gravimetric	Gravimetric	Free Fibre	Total
					Analysis Total	Analysis by ACM	Analysis	Asbestos
					(%)	Type (%)	(%)	(%)
232153	1.00	WS06	Brown soil, stones	No asbestos detected	n/t	n/t	n/t	n/t



Method Summary Report No.: 21-32954, issue number 1

Baramatar	Codeo	Analysis Undertaken	Date	Method	Teebnique
	Coues	On	Tested	Number	rechnique
Soil					
Sulphide	N	As submitted sample	01/04/2021	109	Colorimetry
рН	М	Air dried sample	06/04/2021	113	Electromeric
Acid Soluble Sulphate	U	Air dried sample	06/04/2021	115	Ion Chromatography
PAH (GC-FID)	М	As submitted sample	01/04/2021	133	GC-FID
Low range Aliphatic hydrocarbons soil	N	As submitted sample	01/04/2021	181	GC-MS
Low range Aromatic hydrocarbons soil	N	As submitted sample	01/04/2021	181	GC-MS
Water soluble boron	N	Air dried sample	01/04/2021	202	Colorimetry
Total organic carbon/Total sulphur	N	Air dried sample	06/04/2021	210	IR
Aliphatic hydrocarbons in soil	N	As submitted sample	01/04/2021	214	GC-FID
Aliphatic/Aromatic hydrocarbons in soil	N	As submitted sample	06/04/2021	214	GC-FID
Aromatic hydrocarbons in soil	N	As submitted sample	01/04/2021	214	GC-FID
Asbestos identification	U	Air dried sample	07/04/2021	280	Microscopy
Aqua regia extractable metals	M	Air dried sample	01/04/2021	300	ICPMS

Tests marked N are not UKAS accredited



## **Report Information**

#### Report No.: 21-32954, issue number 1

Key

ney	
U	hold UKAS accreditation
Μ	hold MCERTS and UKAS accreditation
Ν	do not currently hold UKAS accreditation
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I/S	Insufficient Sample
U/S	Unsuitable sample
n/t	Not tested
<	means "less than"
>	means "greater than"
LOD	LOD refers to limit of detection, except in the case of pH soils and pH waters where it means limit of discrimination.
	Soil sample results are expressed on an air dried basis (dried at < 30°C), and are uncorrected for inert material removed.
	ELAB are unable to provide an interpretation or opinion on the content of this report.
	The results relate only to the sample received.
	PCB congener results may include any coeluting PCBs
	Uncertainty of measurement for the determinands tested are available upon request
	Unless otherwise stated, sample information has been provided by the client. This may
	affect the validity of the results.
Deviation	Codes
а	No date of sampling supplied
b	No time of sampling supplied (Waters Only)
С	Sample not received in appropriate containers

- d Sample not received in cooled condition
- e The container has been incorrectly filled
- f Sample age exceeds stability time (sampling to receipt)
- g Sample age exceeds stability time (sampling to analysis)

Where a sample has a deviation code, the applicable test result may be invalid.

#### Sample Retention and Disposal

All soil samples will be retained for a period of one month All water samples will be retained for 7 days following the date of the test report Charges may apply to extended sample storage



Unit A2 Windmill Road Ponswood Industrial Estate St Leonards on Sea East Sussex TN38 9BY Telephone: (01424) 718618

> cs@elab-uk.co.uk info@elab-uk.co.uk

### THE ENVIRONMENTAL LABORATORY LTD

Analytical Report Number:	21-32899
Issue:	1
Date of Issue:	07/04/2021
Contact:	Sam Parry
Customer Details:	CC Geotechnical Ltd Unit 1 & 2 Deltic Place Deltic Way Liverpool MersevsideL33 7BA
Quotation No:	Q17-00806
Order No:	Not Supplied
Customer Reference:	CCG-C-21-12093
Date Received:	29/03/2021
Date Approved:	07/04/2021
Details:	Cottam Parkway Station
Approved by:	e Vr

Mike Varley, Technical Manager

Any comments, opinions or interpretations expressed herein are outside the scope of UKAS accreditation (Accreditation Number 2683

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## Sample Summary

Report No.: 21-32899, issue number 1

Elab No.	Client's Ref.	<b>Date Sampled</b>	Date Scheduled	Description	Deviations
231911	WS07 Natural 0.20	24/03/2021	29/03/2021	Silty loam	



Report No.: 21-32899, issue number 1

ELAB Reference					
	Customer Reference				
		:	Sample ID		
		Sa	mple Type	SOIL	
		Sampl	e Location	WS07	
		Sample	Depth (m)	0.20	
		Sam	pling Date	24/03/2021	
Determinand	Codes	Units		2.000,202.1	
Soil sample preparation parameters					
Material removed	N	%	0.1	< 0.1	
Description of Inert material removed	N	70	0.1	None	
Motale					
		//		0.1	
Arsenic	M	mg/kg	1	8.4	
Cadmium	M	mg/kg	0.5	< 0.5	
Chromium	M	mg/kg	5	29.8	
Copper	M	mg/kg	5	16.8	
Lead	M	mg/kg	5	31.3	
Mercury	M	mg/kg	0.5	< 0.5	
Nickel	M	mg/kg	5	26.3	
Selenium	M	mg/kg	1	< 1.0	
Zinc	М	mg/kg	5	47.9	
Inorganics					
Total Sulphide	N	mg/kg	2	< 2	
Acid Soluble Sulphate (SO4)	U	%	0.02	0.02	
Water Soluble Boron	N	mg/kg	0.5	< 0.5	
Miscellaneous					
Fraction of Organic Carbon	N		0.0001	0.0114	
pH	М	pH units	0.1	6.6	
Polyaromatic hydrocarbons					
Naphthalene	М	mg/kg	0.1	< 0.1	
Acenaphthylene	М	mg/kg	0.1	< 0.1	
Acenaphthene	М	mg/kg	0.1	< 0.1	
Fluorene	М	mg/kg	0.1	< 0.1	
Phenanthrene	М	mg/kg	0.1	< 0.1	
Anthracene	М	mg/kg	0.1	< 0.1	
Fluoranthene	М	mg/kg	0.1	< 0.1	
Pyrene	М	mg/kg	0.1	< 0.1	
Benzo(a)anthracene	М	mg/kg	0.1	< 0.1	
Chrysene	М	mg/kg	0.1	< 0.1	
Benzo(b)fluoranthene	М	mg/kg	0.1	< 0.1	
Benzo(k)fluoranthene	М	mg/kg	0.1	< 0.1	
Benzo(a)pyrene	М	mg/kg	0.1	< 0.1	
Indeno(1,2,3-cd)pyrene	М	mg/kg	0.1	< 0.1	
Dibenzo(a,h)anthracene	М	mg/kg	0.1	< 0.1	
Benzo[g,h,i]perylene	М	mg/kg	0.1	< 0.1	
Total PAH(16)	М	mg/kg	0.4	< 0.4	



## Report No.: 21-32899, issue number 1

ELAB Reference					
Customer Reference					
Sample ID					
		Sa	mple Type	SOIL	
		Sampl	e Location	WS07	
		Campi		0.00	
		Sample	Depth (m)	0.20	
		Sam	pling Date	24/03/2021	
Determinand	Codes	Units	LOD		
TPH CWG					
>C5-C6 Aliphatic	N	mg/kg	0.01	< 0.01	
>C6-C8 Aliphatic	N	mg/kg	0.01	< 0.01	
>C8-C10 Aliphatic	N	mg/kg	1	< 1.0	
>C10-C12 Aliphatic	N	mg/kg	1	< 1.0	
>C12-C16 Aliphatic	N	mg/kg	1	< 1.0	
>C16-C21 Aliphatic	N	mg/kg	1	< 1.0	
>C21-C35 Aliphatic	N	mg/kg	1	< 1.0	
>C35-C40 Aliphatic	N	mg/kg	1	< 1.0	
>C5-C7 Aromatic	N	mg/kg	0.01	< 0.01	
>C7-C8 Aromatic	N	mg/kg	0.01	< 0.01	
>C8-C10 Aromatic	N	mg/kg	1	< 1.0	
>C10-C12 Aromatic	N	mg/kg	1	< 1.0	
>C12-C16 Aromatic	N	mg/kg	1	< 1.0	
>C16-C21 Aromatic	N	mg/kg	1	< 1.0	
>C21-C35 Aromatic	N	mg/kg	1	< 1.0	
>C35-C40 Aromatic	N	mg/kg	1	< 1.0	
Total (>C5-C40) Ali/Aro	N	mg/kg	1	< 1.0	
Total Petroleum Hydrocarbons					
PAH Fingerprint	N	n/a	0	n/a	
TPH Fingerprint	N	n/a	0	n/a	



Unit A2, Windmill Road, Ponswood Industrial Estate, St Leonards on Sea, East Sussex, TN38 9BY Tel: +44 (0)1424 718618, Email: info@elab-uk.co.uk, Web: www.elab-uk.co.uk

## **Results Summary**

Report No.: 21-32899, issue number 1

#### **Asbestos Results**

Analytical result only applies to the sample as submitted by the client. Any comments, opinions or interpretations (marked #) in this report are outside UKAS accreditation (Accreditation No2683). They are subjective comments only which must be verified by the client.

Elab No	Depth (m)	Clients Reference	Description of Sample Matrix #	Asbestos Identification	Gravimetric	Gravimetric	Free Fibre	Total
					Analysis Total	Analysis by ACM	Analysis	Asbestos
					(%)	Type (%)	(%)	(%)
231911	0.20	WS07 Natural	Brown soil, stones	No asbestos detected	n/t	n/t	n/t	n/t



Method Summary Report No.: 21-32899, issue number 1

Paramotor	Codes	Analysis Undertaken	Date	Method	Tochniquo
	Coues	On	Tested	Number	rechnique
Soil					
Sulphide	N	As submitted sample	30/03/2021	109	Colorimetry
рН	М	Air dried sample	01/04/2021	113	Electromeric
Acid Soluble Sulphate	U	Air dried sample	31/03/2021	115	Ion Chromatography
PAH (GC-FID)	M	As submitted sample	30/03/2021	133	GC-FID
Low range Aliphatic hydrocarbons soil	N	As submitted sample	31/03/2021	181	GC-MS
Low range Aromatic hydrocarbons soil	N	As submitted sample	31/03/2021	181	GC-MS
Water soluble boron	N	Air dried sample	30/03/2021	202	Colorimetry
Total organic carbon/Total sulphur	N	Air dried sample	31/03/2021	210	IR
Aliphatic hydrocarbons in soil	N	As submitted sample	30/03/2021	214	GC-FID
Aliphatic/Aromatic hydrocarbons in soil	N	As submitted sample	31/03/2021	214	GC-FID
Aromatic hydrocarbons in soil	N	As submitted sample	30/03/2021	214	GC-FID
Asbestos identification	U	Air dried sample	01/04/2021	280	Microscopy
Aqua regia extractable metals	M	Air dried sample	30/03/2021	300	ICPMS

Tests marked N are not UKAS accredited



## **Report Information**

#### Report No.: 21-32899, issue number 1

Key

ney	
U	hold UKAS accreditation
Μ	hold MCERTS and UKAS accreditation
Ν	do not currently hold UKAS accreditation
٨	MCERTS accreditation not applicable for sample matrix
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SM	Subcontracted to approved laboratory MCERTS/UKAS Accredited for the test
NS	Subcontracted to approved laboratory. UKAS accreditation is not applicable.
I/S	Insufficient Sample
U/S	Unsuitable sample
n/t	Not tested
<	means "less than"
>	means "greater than"
LOD	LOD refers to limit of detection, except in the case of pH soils and pH waters where it means limit of discrimination.
	Soil sample results are expressed on an air dried basis (dried at < 30°C), and are uncorrected for inert material removed.
	ELAB are unable to provide an interpretation or opinion on the content of this report.
	The results relate only to the sample received.
	PCB congener results may include any coeluting PCBs
	Uncertainty of measurement for the determinands tested are available upon request
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Deviation	Codes
а	No date of sampling supplied
b	No time of sampling supplied (Waters Only)
С	Sample not received in appropriate containers

- d Sample not received in cooled condition
- e The container has been incorrectly filled
- f Sample age exceeds stability time (sampling to receipt)
- g Sample age exceeds stability time (sampling to analysis)

Where a sample has a deviation code, the applicable test result may be invalid.

#### Sample Retention and Disposal

All soil samples will be retained for a period of one month All water samples will be retained for 7 days following the date of the test report Charges may apply to extended sample storage



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> cs@elab-uk.co.uk info@elab-uk.co.uk

### THE ENVIRONMENTAL LABORATORY LTD

Analytical Report Number:	21-32900
Issue:	1
Date of Issue:	06/04/2021
Contact:	Sam Parry
Customer Details:	CC Geotechnical Ltd Unit 1 & 2 Deltic Place Deltic Way Liverpool MersevsideL33 7BA
Quotation No:	Q17-00806
Order No:	Not Supplied
Customer Reference:	CCG-C-21-12093
Date Received:	29/03/2021
Date Approved:	06/04/2021
Details:	Cottam Parkway Station
Approved by:	e Naze.

Mike Varley, Technical Manager

Any comments, opinions or interpretations expressed herein are outside the scope of UKAS accreditation (Accreditation Number 2683

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# Sample Summary

Report No.: 21-32900, issue number 1

Elab No.	Client's Ref.	Date Sampled	Date Scheduled	Description	Deviations
231912	WS08 Natural 0.10	24/03/2021	29/03/2021	Silty loam	



Report No.: 21-32900, issue number 1

ELAB Reference						
Customer Reference						
Sample IE						
		Sa	mple Type	SOIL		
		Sampl	e Location	WS08		
		Sample	Depth (m)	0.10		
		Sam	pling Date	24/03/2021		
Determinand	Codes	Units	LOD			
Soil sample preparation paramet	ers					
Material removed	N	%	0.1	< 0.1		
Description of Inert material removed	N	,,,	0	None		
Metals						
Arsonic	N/	ma/ka	1	11.2		
Codmium	M	mg/kg	0.5	< 0.5		
Caulilium	IVI	mg/kg	0.5 E	<ul> <li>&lt; 0.5</li> <li>20.5</li> </ul>		
Conner		mg/kg	5	20.2		
Copper		mg/kg	5	37.0		
Lead		mg/kg	5	33.9		
Niercury		mg/kg	0.5	< 0.5		
	IVI N4	mg/kg	5	24.7		
Selenium	M	mg/kg	1	< 1.0		
Zinc	M	mg/kg	5	58.5		
Inorganics						
Total Sulphide	N	mg/kg	2	< 2		
Acid Soluble Sulphate (SO4)	U	%	0.02	0.02		
Water Soluble Boron	N	mg/kg	0.5	< 0.5		
Miscellaneous						
Fraction of Organic Carbon	N		0.0001	0.0137		
pH	М	pH units	0.1	6.5		
Polyaromatic hydrocarbons						
Naphthalene	М	mg/kg	0.1	< 0.1		
Acenaphthylene	М	mg/kg	0.1	< 0.1		
Acenaphthene	М	mg/kg	0.1	< 0.1		
Fluorene	М	mg/kg	0.1	< 0.1		
Phenanthrene	М	mg/kg	0.1	< 0.1		
Anthracene	М	mg/kg	0.1	< 0.1		
Fluoranthene	М	mg/kg	0.1	0.1		
Pyrene	М	mg/kg	0.1	0.1		
Benzo(a)anthracene	М	mg/kg	0.1	< 0.1		
Chrysene	М	mg/kg	0.1	< 0.1		
Benzo(b)fluoranthene	М	mg/kg	0.1	< 0.1		
Benzo(k)fluoranthene	М	mg/kg	0.1	< 0.1		
Benzo(a)pyrene	М	mg/kg	0.1	< 0.1		
Indeno(1,2,3-cd)pyrene	М	mg/kg	0.1	< 0.1		
Dibenzo(a,h)anthracene	М	mg/kg	0.1	< 0.1		
Benzo[g,h,i]perylene	М	mg/kg	0.1	< 0.1		
Total PAH(16)	М	mg/kg	0.4	0.5		



## Report No.: 21-32900, issue number 1

ELAB Reference						
Customer Reference						
Sample ID						
		Sa	mple Type	SOIL		
		Sampl	e Location	WS08		
		Campi		0.10		
		Sample	Depth (m)	0.10		
		Sam	pling Date	24/03/2021		
Determinand	Codes	Units	LOD			
TPH CWG						
>C5-C6 Aliphatic	N	mg/kg	0.01	< 0.01		
>C6-C8 Aliphatic	N	mg/kg	0.01	< 0.01		
>C8-C10 Aliphatic	N	mg/kg	1	< 1.0		
>C10-C12 Aliphatic	N	mg/kg	1	< 1.0		
>C12-C16 Aliphatic	N	mg/kg	1	< 1.0		
>C16-C21 Aliphatic	N	mg/kg	1	< 1.0		
>C21-C35 Aliphatic	N	mg/kg	1	< 1.0		
>C35-C40 Aliphatic	N	mg/kg	1	< 1.0		
>C5-C7 Aromatic	N	mg/kg	0.01	< 0.01		
>C7-C8 Aromatic	N	mg/kg	0.01	< 0.01		
>C8-C10 Aromatic	N	mg/kg	1	< 1.0		
>C10-C12 Aromatic	N	mg/kg	1	< 1.0		
>C12-C16 Aromatic	N	mg/kg	1	< 1.0		
>C16-C21 Aromatic	N	mg/kg	1	< 1.0		
>C21-C35 Aromatic	N	mg/kg	1	< 1.0		
>C35-C40 Aromatic	N	mg/kg	1	< 1.0		
Total (>C5-C40) Ali/Aro	N	mg/kg	1	< 1.0		
Total Petroleum Hydrocarbons						
PAH Fingerprint	N	n/a	0	n/a		
TPH Fingerprint	N	n/a	0	n/a		



Unit A2, Windmill Road, Ponswood Industrial Estate, St Leonards on Sea, East Sussex, TN38 9BY Tel: +44 (0)1424 718618, Email: info@elab-uk.co.uk, Web: www.elab-uk.co.uk

#### **Results Summary**

Report No.: 21-32900, issue number 1

#### Asbestos Results

Analytical result only applies to the sample as submitted by the client. Any comments, opinions or interpretations (marked #)

in this report are outside UKAS accreditation (Accreditation No2683). They are subjective comments only which must be verified by the client

Elab No Depth (m)	Clients Reference	Description of Sample Matrix #	Asbestos	Gravimetric Analysis Total	Gravimetric Analysis by ACM Type	Free Fibre Analysis	Total Asbestos
231912 0.10	WS08 Natural	Brown soil, stones	No asbestos detected	n/t	n/t	n/t	n/t



Method Summary Report No.: 21-32900, issue number 1

Baramatar	Codeo	Analysis Undertaken	Date	Method	Teebnique
	Coues	On	Tested	Number	rechnique
Soil					
Sulphide	N	As submitted sample	30/03/2021	109	Colorimetry
рН	М	Air dried sample	01/04/2021	113	Electromeric
Acid Soluble Sulphate	U	Air dried sample	31/03/2021	115	Ion Chromatography
PAH (GC-FID)	М	As submitted sample	30/03/2021	133	GC-FID
Low range Aliphatic hydrocarbons soil	N	As submitted sample	31/03/2021	181	GC-MS
Low range Aromatic hydrocarbons soil	N	As submitted sample	31/03/2021	181	GC-MS
Water soluble boron	N	Air dried sample	30/03/2021	202	Colorimetry
Total organic carbon/Total sulphur	N	Air dried sample	31/03/2021	210	IR
Aliphatic hydrocarbons in soil	N	As submitted sample	30/03/2021	214	GC-FID
Aliphatic/Aromatic hydrocarbons in soil	N	As submitted sample	31/03/2021	214	GC-FID
Aromatic hydrocarbons in soil	N	As submitted sample	30/03/2021	214	GC-FID
Asbestos identification	U	Air dried sample	01/04/2021	280	Microscopy
Aqua regia extractable metals	M	Air dried sample	30/03/2021	300	ICPMS

Tests marked N are not UKAS accredited



## **Report Information**

#### Report No.: 21-32900, issue number 1

Key

Rey	
U	hold UKAS accreditation
М	hold MCERTS and UKAS accreditation
Ν	do not currently hold UKAS accreditation
٨	MCERTS accreditation not applicable for sample matrix
*	UKAS accreditation not applicable for sample matrix
S	Subcontracted to approved laboratory UKAS Accredited for the test
SM	Subcontracted to approved laboratory MCERTS/UKAS Accredited for the test
NS	Subcontracted to approved laboratory. UKAS accreditation is not applicable.
I/S	Insufficient Sample
U/S	Unsuitable sample
n/t	Not tested
<	means "less than"
>	means "greater than"
LOD	LOD refers to limit of detection, except in the case of pH soils and pH waters where it means limit of discrimination.
	Soil sample results are expressed on an air dried basis (dried at < 30°C), and are uncorrected for inert material removed.
	ELAB are unable to provide an interpretation or opinion on the content of this report.
	The results relate only to the sample received.
	PCB congener results may include any coeluting PCBs
	Uncertainty of measurement for the determinands tested are available upon request Unless otherwise stated, sample information has been provided by the client. This may affect the validity of the results
Deviation	Codes
а	No date of sampling supplied
b	No time of sampling supplied (Waters Only)
С	Sample not received in appropriate containers

- d Sample not received in cooled condition
- e The container has been incorrectly filled
- f Sample age exceeds stability time (sampling to receipt)
- g Sample age exceeds stability time (sampling to analysis)

Where a sample has a deviation code, the applicable test result may be invalid.

#### Sample Retention and Disposal

All soil samples will be retained for a period of one month All water samples will be retained for 7 days following the date of the test report Charges may apply to extended sample storage



Unit A2 Windmill Road Ponswood Industrial Estate St Leonards on Sea East Sussex TN38 9BY Telephone: (01424) 718618

> cs@elab-uk.co.uk info@elab-uk.co.uk

### THE ENVIRONMENTAL LABORATORY LTD

Analytical Report Number:	21-32904
Issue:	1
Date of Issue:	06/04/2021
Contact:	Sam Parry
Customer Details:	CC Geotechnical Ltd Unit 1 & 2 Deltic Place Deltic Way Liverpool MersevsideL33 7BA
Quotation No:	Q17-00806
Order No:	Not Supplied
Customer Reference:	CCG-C-21-12093
Date Received:	29/03/2021
Date Approved:	06/04/2021
Details:	Cottam Parkway Station
Approved by:	e Na

Mike Varley, Technical Manager

Any comments, opinions or interpretations expressed herein are outside the scope of UKAS accreditation (Accreditation Number 2683

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# Sample Summary

Report No.: 21-32904, issue number 1

Elab No.	Client's Ref.	<b>Date Sampled</b>	Date Scheduled	Description	Deviations
231959	WS12 Natural 0.20	23/03/2021	29/03/2021	Silty loam	



Report No.: 21-32904, issue number 1

ELAB Reference							
	Customer Reference						
		:	Sample ID				
Sample Type							
Sample Location							
		Sample	Depth (m)	0.20			
		Sam	pling Date	23/03/2021			
Determinand	Codes	Units	LOD				
Soil sample preparation parameter	ers						
Material removed	N	%	0.1	< 0.1			
Description of Inert material removed	N	70	0.1	None			
Motale							
Ivietais	NA	and as /l.c.as	1	42.0			
Arsenic		mg/kg	0.5	13.0			
		mg/kg	0.5	< 0.5			
Chromium	IVI N4	mg/kg	5	31.8			
Copper	IVI N	mg/kg	5	35.8			
Lead	M	mg/kg	5	54.4			
Mercury	M	mg/kg	0.5	< 0.5			
Nickel	M	mg/kg	5	26.9			
Selenium	M	mg/kg	1	< 1.0			
Zinc	M	mg/kg	5	57.0			
Inorganics							
Total Sulphide	N	mg/kg	2	< 2			
Acid Soluble Sulphate (SO4)	U	%	0.02	0.02			
Water Soluble Boron	N	mg/kg	0.5	0.6			
Miscellaneous							
Fraction of Organic Carbon	N		0.0001	0.0149			
pH	М	pH units	0.1	6.8			
Polyaromatic hydrocarbons							
Naphthalene	М	mg/kg	0.1	< 0.1			
Acenaphthylene	М	mg/kg	0.1	< 0.1			
Acenaphthene	М	mg/kg	0.1	< 0.1			
Fluorene	М	mg/kg	0.1	< 0.1			
Phenanthrene	М	mg/kg	0.1	0.1			
Anthracene	М	mg/kg	0.1	< 0.1			
Fluoranthene	М	mg/kg	0.1	0.2			
Pyrene	М	mg/kg	0.1	0.2			
Benzo(a)anthracene	М	mg/kg	0.1	< 0.1			
Chrysene	М	mg/kg	0.1	0.1			
Benzo(b)fluoranthene	М	mg/kg	0.1	< 0.1			
Benzo(k)fluoranthene	М	mg/kg	0.1	< 0.1			
Benzo(a)pyrene	М	mg/kg	0.1	< 0.1			
Indeno(1,2,3-cd)pyrene	М	mg/kg	0.1	< 0.1			
Dibenzo(a,h)anthracene	М	mg/kg	0.1	< 0.1			
Benzo[g,h,i]perylene	М	mg/kg	0.1	< 0.1			
Total PAH(16)	М	mg/kg	0.4	0.7			



## Report No.: 21-32904, issue number 1

ELAB Reference							
Customer Reference							
Sample ID							
		Sa	mple Type	SOIL			
		Sampl		WS12			
		Oampi		0.00			
		Sample	Depth (m)	0.20			
		Sam	pling Date	23/03/2021			
Determinand	Codes	Units	LOD				
TPH CWG							
>C5-C6 Aliphatic	N	mg/kg	0.01	< 0.01			
>C6-C8 Aliphatic	N	mg/kg	0.01	< 0.01			
>C8-C10 Aliphatic	N	mg/kg	1	< 1.0			
>C10-C12 Aliphatic	N	mg/kg	1	< 1.0			
>C12-C16 Aliphatic	N	mg/kg	1	< 1.0			
>C16-C21 Aliphatic	N	mg/kg	1	< 1.0			
>C21-C35 Aliphatic	N	mg/kg	1	< 1.0			
>C35-C40 Aliphatic	N	mg/kg	1	< 1.0			
>C5-C7 Aromatic	N	mg/kg	0.01	< 0.01			
>C7-C8 Aromatic	N	mg/kg	0.01	< 0.01			
>C8-C10 Aromatic	N	mg/kg	1	< 1.0			
>C10-C12 Aromatic	N	mg/kg	1	< 1.0			
>C12-C16 Aromatic	N	mg/kg	1	< 1.0			
>C16-C21 Aromatic	N	mg/kg	1	< 1.0			
>C21-C35 Aromatic	N	mg/kg	1	< 1.0			
>C35-C40 Aromatic	N	mg/kg	1	< 1.0			
Total (>C5-C40) Ali/Aro	N	mg/kg	1	< 1.0			
Total Petroleum Hydrocarbons							
PAH Fingerprint	N	n/a	0	n/a			
TPH Fingerprint	N	n/a	0	n/a			



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#### **Results Summary**

Report No.: 21-32904, issue number 1

#### Asbestos Results

Analytical result only applies to the sample as submitted by the client. Any comments, opinions or interpretations (marked #)

in this report are outside UKAS accreditation (Accreditation No2683). They are subjective comments only which must be verified by the client

Elab No Depth (m)	<b>Clients Reference</b>	Description of Sample Matrix #	Asbestos	Gravimetric Analysis Total	Gravimetric Analysis by ACM Type	Free Fibre Analysis	Total Asbestos
231959 0.20	WS12 Natural	Brown soil, stones	No asbestos detected	n/t	n/t	n/t	n/t



Method Summary Report No.: 21-32904, issue number 1

Baramatar	Codeo	Analysis Undertaken	Date	Method	Teebnique
	Coues	On	Tested	Number	rechnique
Soil					
Sulphide	N	As submitted sample	30/03/2021	109	Colorimetry
рН	М	Air dried sample	01/04/2021	113	Electromeric
Acid Soluble Sulphate	U	Air dried sample	31/03/2021	115	Ion Chromatography
PAH (GC-FID)	М	As submitted sample	30/03/2021	133	GC-FID
Low range Aliphatic hydrocarbons soil	N	As submitted sample	31/03/2021	181	GC-MS
Low range Aromatic hydrocarbons soil	N	As submitted sample	31/03/2021	181	GC-MS
Water soluble boron	N	Air dried sample	30/03/2021	202	Colorimetry
Total organic carbon/Total sulphur	N	Air dried sample	31/03/2021	210	IR
Aliphatic hydrocarbons in soil	N	As submitted sample	30/03/2021	214	GC-FID
Aliphatic/Aromatic hydrocarbons in soil	N	As submitted sample	31/03/2021	214	GC-FID
Aromatic hydrocarbons in soil	N	As submitted sample	30/03/2021	214	GC-FID
Asbestos identification	U	Air dried sample	01/04/2021	280	Microscopy
Aqua regia extractable metals	M	Air dried sample	30/03/2021	300	ICPMS

Tests marked N are not UKAS accredited



## **Report Information**

#### Report No.: 21-32904, issue number 1

#### Key

U	hold UKAS accreditation
Μ	hold MCERTS and UKAS accreditation
Ν	do not currently hold UKAS accreditation
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I/S	Insufficient Sample
U/S	Unsuitable sample
n/t	Not tested
<	means "less than"
>	means "greater than"
LOD	LOD refers to limit of detection, except in the case of pH soils and pH waters where it means limit of discrimination.
	Soil sample results are expressed on an air dried basis (dried at < 30°C), and are uncorrected for inert material removed.
	ELAB are unable to provide an interpretation or opinion on the content of this report.
	The results relate only to the sample received.
	PCB congener results may include any coeluting PCBs
	Uncertainty of measurement for the determinands tested are available upon request Unless otherwise stated, sample information has been provided by the client. This may
	affect the validity of the results.
eviation	Codes

## De

- No date of sampling supplied а
- b No time of sampling supplied (Waters Only)
- С Sample not received in appropriate containers
- d Sample not received in cooled condition
- е The container has been incorrectly filled
- f Sample age exceeds stability time (sampling to receipt)
- Sample age exceeds stability time (sampling to analysis) g

Where a sample has a deviation code, the applicable test result may be invalid.

#### Sample Retention and Disposal

All soil samples will be retained for a period of one month All water samples will be retained for 7 days following the date of the test report Charges may apply to extended sample storage



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### THE ENVIRONMENTAL LABORATORY LTD

Analytical Report Number:	21-32905
Issue:	1
Date of Issue:	06/04/2021
Contact:	Sam Parry
Customer Details:	CC Geotechnical Ltd Unit 1 & 2 Deltic Place Deltic Way Liverpool MersevsideL33 7BA
Quotation No:	Q17-00806
Order No:	Not Supplied
Customer Reference:	CCG-C-21-12093
Date Received:	29/03/2021
Date Approved:	06/04/2021
Details:	Cottam Parkway Station
Approved by:	e Vr

Mike Varley, Technical Manager

Any comments, opinions or interpretations expressed herein are outside the scope of UKAS accreditation (Accreditation Number 2683

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# Sample Summary

Report No.: 21-32905, issue number 1

Elab No.	Client's Ref.	<b>Date Sampled</b>	Date Scheduled	Description	Deviations
231960	WS13 Natural 0.10	23/03/2021	29/03/2021	Silty loam	



Report No.: 21-32905, issue number 1

ELAB Reference							
	Natural						
Sample ID							
		Sa	mple Type	SOIL			
		Sampl	e Location	WS13			
		Sample	Depth (m)	0.10			
		Sam	pling Date	23/03/2021			
Determinand	Codes	Units	LOD				
Soil sample preparation parameter	ers						
Material removed	N	%	0.1	< 0.1			
Description of Inert material removed	N	70	0.1	None			
Motals							
	N4	ma/ka	1	12.0			
Aisenic		mg/kg	0.5	13.0			
Cadmium		mg/kg	0.5	< 0.5			
Chromium		mg/kg	5	25.0			
Copper	IVI N4	mg/kg	5	49.6			
Lead	M	mg/kg	5	68.0			
Mercury	M	mg/kg	0.5	< 0.5			
Nickel	M	mg/kg	5	22.0			
Selenium	M	mg/kg	1	< 1.0			
Zinc	M	mg/kg	5	90.0			
Inorganics							
Total Sulphide	N	mg/kg	2	< 2			
Acid Soluble Sulphate (SO4)	U	%	0.02	0.05			
Water Soluble Boron	N	mg/kg	0.5	0.9			
Miscellaneous							
Fraction of Organic Carbon	N		0.0001	0.0585			
pH	М	pH units	0.1	5.9			
Polyaromatic hydrocarbons							
Naphthalene	М	mg/kg	0.1	< 0.1			
Acenaphthylene	М	mg/kg	0.1	< 0.1			
Acenaphthene	М	mg/kg	0.1	< 0.1			
Fluorene	М	mg/kg	0.1	< 0.1			
Phenanthrene	М	mg/kg	0.1	< 0.1			
Anthracene	М	mg/kg	0.1	< 0.1			
Fluoranthene	М	mg/kg	0.1	< 0.1			
Pyrene	М	mg/kg	0.1	< 0.1			
Benzo(a)anthracene	М	mg/kg	0.1	< 0.1			
Chrysene	М	mg/kg	0.1	< 0.1			
Benzo(b)fluoranthene	М	mg/kg	0.1	< 0.1			
Benzo(k)fluoranthene	М	mg/kg	0.1	< 0.1			
Benzo(a)pyrene	М	mg/kg	0.1	< 0.1			
Indeno(1,2,3-cd)pyrene	М	mg/kg	0.1	< 0.1			
Dibenzo(a,h)anthracene	М	mg/kg	0.1	< 0.1			
Benzo[g,h,i]perylene	М	mg/kg	0.1	< 0.1			
Total PAH(16)	М	mg/kg	0.4	< 0.4			



## Report No.: 21-32905, issue number 1

ELAB Reference							
Customer Reference							
Sample ID							
		Sa	mple Type	SOIL			
		Sampl	e Location	WS13			
		Commis		0.10			
		Sample	Depth (m)	0.10			
		Sam	pling Date	23/03/2021			
Determinand	Codes	Units	LOD				
TPH CWG							
>C5-C6 Aliphatic	N	mg/kg	0.01	< 0.01			
>C6-C8 Aliphatic	N	mg/kg	0.01	< 0.01			
>C8-C10 Aliphatic	N	mg/kg	1	< 1.0			
>C10-C12 Aliphatic	N	mg/kg	1	< 1.0			
>C12-C16 Aliphatic	N	mg/kg	1	< 1.0			
>C16-C21 Aliphatic	N	mg/kg	1	< 1.0			
>C21-C35 Aliphatic	N	mg/kg	1	< 1.0			
>C35-C40 Aliphatic	N	mg/kg	1	< 1.0			
>C5-C7 Aromatic	N	mg/kg	0.01	< 0.01			
>C7-C8 Aromatic	N	mg/kg	0.01	< 0.01			
>C8-C10 Aromatic	N	mg/kg	1	< 1.0			
>C10-C12 Aromatic	N	mg/kg	1	< 1.0			
>C12-C16 Aromatic	N	mg/kg	1	< 1.0			
>C16-C21 Aromatic	N	mg/kg	1	< 1.0			
>C21-C35 Aromatic	N	mg/kg	1	< 1.0			
>C35-C40 Aromatic	N	mg/kg	1	< 1.0			
Total (>C5-C40) Ali/Aro	N	mg/kg	1	< 1.0			
Total Petroleum Hydrocarbons							
PAH Fingerprint	N	n/a	0	n/a			
TPH Fingerprint	N	n/a	0	n/a			



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#### **Results Summary**

Report No.: 21-32905, issue number 1

#### Asbestos Results

Analytical result only applies to the sample as submitted by the client. Any comments, opinions or interpretations (marked #)

in this report are outside UKAS accreditation (Accreditation No2683). They are subjective comments only which must be verified by the client

Elab No Depth (m)	<b>Clients Reference</b>	Description of Sample Matrix #	Asbestos	Gravimetric Analysis Total	Gravimetric Analysis by ACM Type	Free Fibre Analysis	Total Asbestos
231960 0.10	WS13 Natural	Brown Soil,Root	No asbestos detected	n/t	n/t	n/t	n/t



Method Summary Report No.: 21-32905, issue number 1

Baramatar	Codeo	Analysis Undertaken	Date	Method	Teebnique
	Coues	On	Tested	Number	rechnique
Soil					
Sulphide	N	As submitted sample	30/03/2021	109	Colorimetry
рН	М	Air dried sample	01/04/2021	113	Electromeric
Acid Soluble Sulphate	U	Air dried sample	31/03/2021	115	Ion Chromatography
PAH (GC-FID)	М	As submitted sample	30/03/2021	133	GC-FID
Low range Aliphatic hydrocarbons soil	N	As submitted sample	31/03/2021	181	GC-MS
Low range Aromatic hydrocarbons soil	N	As submitted sample	31/03/2021	181	GC-MS
Water soluble boron	N	Air dried sample	30/03/2021	202	Colorimetry
Total organic carbon/Total sulphur	N	Air dried sample	31/03/2021	210	IR
Aliphatic hydrocarbons in soil	N	As submitted sample	30/03/2021	214	GC-FID
Aliphatic/Aromatic hydrocarbons in soil	N	As submitted sample	31/03/2021	214	GC-FID
Aromatic hydrocarbons in soil	N	As submitted sample	30/03/2021	214	GC-FID
Asbestos identification	U	Air dried sample	06/04/2021	280	Microscopy
Aqua regia extractable metals	M	Air dried sample	30/03/2021	300	ICPMS

Tests marked N are not UKAS accredited



## **Report Information**

### Report No.: 21-32905, issue number 1

Key

Rey	
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SM	Subcontracted to approved laboratory MCERTS/UKAS Accredited for the test
NS	Subcontracted to approved laboratory. UKAS accreditation is not applicable.
I/S	Insufficient Sample
U/S	Unsuitable sample
n/t	Not tested
<	means "less than"
>	means "greater than"
LOD	LOD refers to limit of detection, except in the case of pH soils and pH waters where it means limit of discrimination.
	Soil sample results are expressed on an air dried basis (dried at < 30°C), and are uncorrected for inert material removed.
	ELAB are unable to provide an interpretation or opinion on the content of this report.
	The results relate only to the sample received.
	PCB congener results may include any coeluting PCBs
	Uncertainty of measurement for the determinands tested are available upon request Unless otherwise stated, sample information has been provided by the client. This may affect the validity of the results
Deviation	Codes
а	No date of sampling supplied
b	No time of sampling supplied (Waters Only)
C	Sample not received in appropriate containers

- d Sample not received in cooled condition
- e The container has been incorrectly filled
- f Sample age exceeds stability time (sampling to receipt)
- g Sample age exceeds stability time (sampling to analysis)

Where a sample has a deviation code, the applicable test result may be invalid.

#### Sample Retention and Disposal

All soil samples will be retained for a period of one month All water samples will be retained for 7 days following the date of the test report Charges may apply to extended sample storage



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> cs@elab-uk.co.uk info@elab-uk.co.uk

### THE ENVIRONMENTAL LABORATORY LTD

Analytical Report Number:	21-32907
Issue:	1
Date of Issue:	06/04/2021
Contact:	Sam Parry
Customer Details:	CC Geotechnical Ltd Unit 1 & 2 Deltic Place Deltic Way Liverpool MersevsideL33 7BA
Quotation No:	Q17-00806
Order No:	Not Supplied
Customer Reference:	CCG-C-21-12093
Date Received:	29/03/2021
Date Approved:	06/04/2021
Details:	Cottam Parkway Station
Approved by:	e Na

Mike Varley, Technical Manager

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# Sample Summary

Report No.: 21-32907, issue number 1

Elab No.	Client's Ref.	<b>Date Sampled</b>	Date Scheduled	Description	Deviations
231976	WS16 Natural 0.60	23/03/2021	29/03/2021	Silty clayey loam	



Report No.: 21-32907, issue number 1

	231976						
	C	Natural					
	Sample ID						
	Sample Type						
Sample Location							
		Sample	Depth (m)	0.60			
		Sam	pling Date	23/03/2021			
Determinand	Codes	Units	LOD				
Soil sample preparation parameter	ers						
Material removed	N	%	0.1	< 0.1			
Description of Inert material removed	N		0	None			
Metals							
Arsenic	М	ma/ka	1	11.9			
Cadmium	М	mg/kg	0.5	< 0.5			
Chromium	М	mg/kg	5	40.6			
Copper	М	mg/kg	5	23.0			
Lead	М	mg/kg	5	15.5			
Mercury	М	mg/kg	0.5	< 0.5			
Nickel	М	mg/kg	5	45.3			
Selenium	М	mg/kg	1	< 1.0			
Zinc	М	mg/kg	5	54.5			
Inorganics							
Total Sulphide	N	mg/kg	2	< 2			
Acid Soluble Sulphate (SO4)	U	%	0.02	< 0.02			
Water Soluble Boron	N	mg/kg	0.5	< 0.5			
Miscellaneous							
Fraction of Organic Carbon	N		0.0001	0.0026			
pH	М	pH units	0.1	6.9			
Polvaromatic hydrocarbons							
Naphthalene	М	mg/kg	0.1	< 0.1			
Acenaphthylene	М	mg/kg	0.1	< 0.1			
Acenaphthene	М	mg/kg	0.1	< 0.1			
Fluorene	М	mg/kg	0.1	< 0.1			
Phenanthrene	М	mg/kg	0.1	< 0.1			
Anthracene	М	mg/kg	0.1	< 0.1			
Fluoranthene	М	mg/kg	0.1	< 0.1			
Pyrene	М	mg/kg	0.1	< 0.1			
Benzo(a)anthracene	М	mg/kg	0.1	< 0.1			
Chrysene	М	mg/kg	0.1	< 0.1			
Benzo(b)fluoranthene	M	mg/kg	0.1	< 0.1			
Benzo(k)fluoranthene	M	mg/kg	0.1	< 0.1			
Benzo(a)pyrene	М	mg/kg	0.1	< 0.1			
Indeno(1,2,3-cd)pyrene	M	mg/kg	0.1	< 0.1			
Dibenzo(a,h)anthracene	M	mg/kg	0.1	< 0.1			
Benzo[g,h,i]perylene	М	mg/kg	0.1	< 0.1			
Total PAH(16)	М	mg/kg	0.4	< 0.4			



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ELAB Reference					
	Natural				
	Sample ID				
		Sa	mple Type	SOIL	
		Sampl	e Location	WS16	
		Sample	Denth (m)	0.60	
		Som	pling Data	23/03/2021	
				23/03/2021	
	Codes	Units	LOD		
TPH CWG					
>C5-C6 Aliphatic	N	mg/kg	0.01	< 0.01	
>C6-C8 Aliphatic	N	mg/kg	0.01	< 0.01	
>C8-C10 Aliphatic	N	mg/kg	1	< 1.0	
>C10-C12 Aliphatic	N	mg/kg	1	< 1.0	
>C12-C16 Aliphatic	N	mg/kg	1	< 1.0	
>C16-C21 Aliphatic	N	mg/kg	1	< 1.0	
>C21-C35 Aliphatic	N	mg/kg	1	< 1.0	
>C35-C40 Aliphatic	N	mg/kg	1	< 1.0	
>C5-C7 Aromatic	N	mg/kg	0.01	< 0.01	
>C7-C8 Aromatic	N	mg/kg	0.01	< 0.01	
>C8-C10 Aromatic	N	mg/kg	1	< 1.0	
>C10-C12 Aromatic	N	mg/kg	1	< 1.0	
>C12-C16 Aromatic	N	mg/kg	1	1.1	
>C16-C21 Aromatic	N	mg/kg	1	1.0	
>C21-C35 Aromatic	N	mg/kg	1	< 1.0	
>C35-C40 Aromatic	N	mg/kg	1	< 1.0	
Total (>C5-C40) Ali/Aro	N	mg/kg	1	2.1	
Total Petroleum Hydrocarbons					
PAH Fingerprint	N	n/a	0	n/a	
TPH Fingerprint	N	n/a	0	n/a	



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#### **Results Summary**

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#### Asbestos Results

Analytical result only applies to the sample as submitted by the client. Any comments, opinions or interpretations (marked #)

in this report are outside UKAS accreditation (Accreditation No2683). They are subjective comments only which must be verified by the client

Elab No Depth (m)	<b>Clients Reference</b>	Description of Sample Matrix #	Asbestos	Gravimetric Analysis Total	Gravimetric Analysis by ACM Type	Free Fibre Analysis	Total Asbestos
231976 0.60	WS16 Natural	Brown Soil	No asbestos detected	n/t	n/t	n/t	n/t