

SUMMARY OF LABORATORY SOIL TEST RESULTS

BH / TP / WS Number	Sample Type	Depth From (m)	Depth To (m)	Moisture Content (%)	Bulk Density (Mg/m ³)	Dry Density (Mg/m ³)	Shear Strength (kN/m ²)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Passing 0.425mm (%)	Soil Classification	UKAS accredited test (Y/N)	Description / Test Method Samples described in accordance with BS EN ISO 14688-2 2004
WS04	D	2.50	2.50	15	-	-	-	31	16	15	91	CL	Y	Brown slightly sandy slightly gravelly silty CLAY. Gravel is fine to medium subrounded sandstone. (BS1377Pt2:3.2,4.4,5)

SITE: COTTAM PARKWAY STATION (CCG-C-21-12093)
CLIENT: LANCASHIRE COUNTY COUNCIL

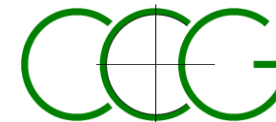
DATE: 28.04.21

Key:- BD = Bulk Disturbed; SD = Small Disturbed; U100 = Undisturbed 100mm; WS = Window Sample

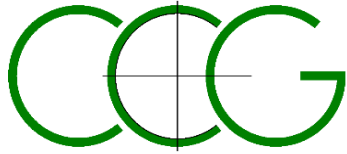
CL = Low Plasticity; CI = Intermediate; CH = High; CV = Very high; CE = Extremely high; NP = Non-plastic

(* Denotes Hand Shear Vane test result)

Sample description not accredited by UKAS



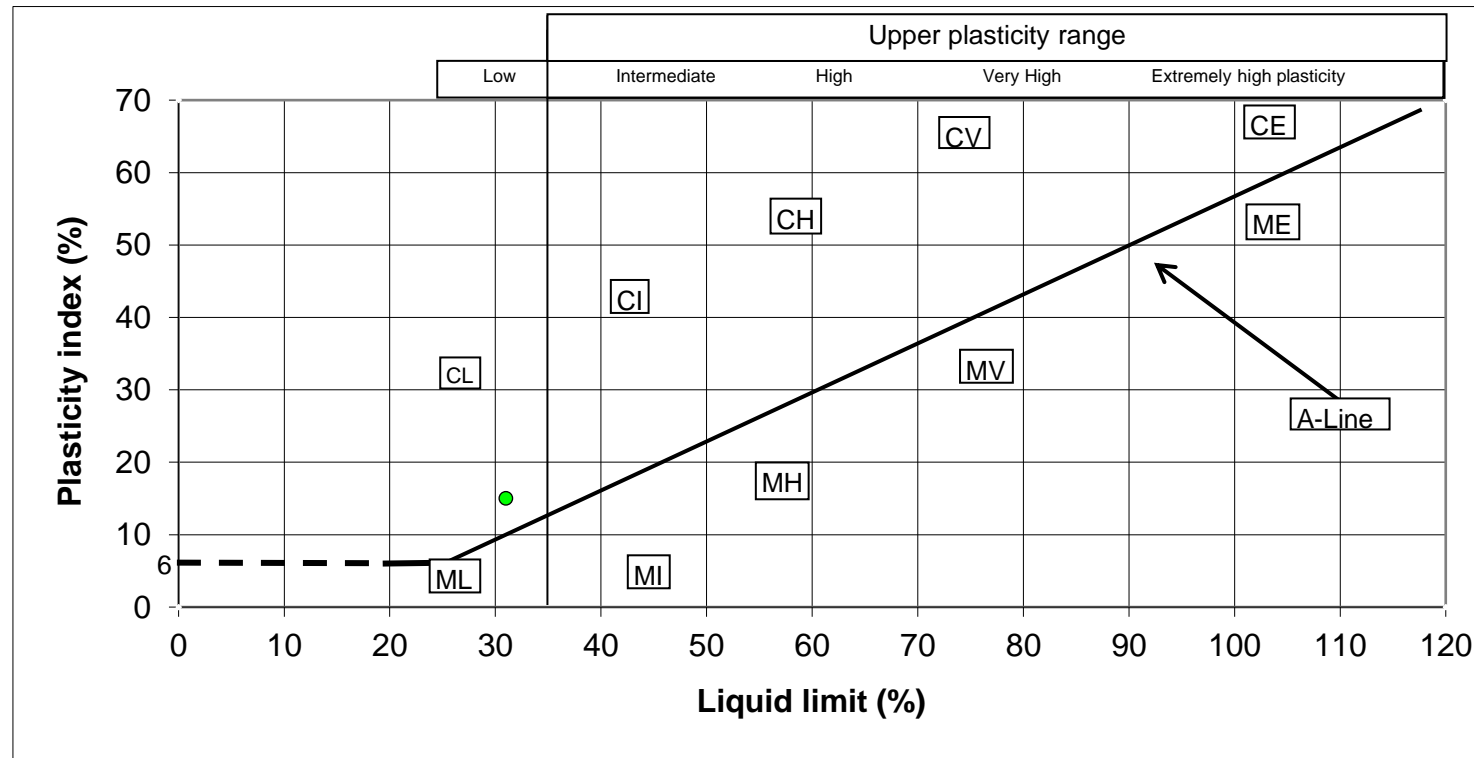
12093 WS04 RES .xls



ATTERBERG TEST RESULT SHEET

BS 1377:Part 2:1990:cl 4.4,5

SILT (M-SOIL), M plots below A-Line , CLAY,C, plots above A-Line, M and C may be combined as FINE SOIL, F.



BH	Sample Depth	Liquid limit	Plasticity index
WS04	2.50	31.0	15.0



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CLIENT: LANCASHIRE COUNTY COUNCIL

SITE: COTTAM PARKWAY STATION (CCG-C-21-12093)

CCG-CMS-FO-204 Issue 2

SUMMARY OF LABORATORY SOIL TEST RESULTS

BH / TP / WS Number	Sample Type	Depth From (m)	Depth To (m)	Moisture Content (%)	Bulk Density (Mg/m ³)	Dry Density (Mg/m ³)	Shear Strength (kN/m ²)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Passing 0.425mm (%)	Soil Classification	UKAS accredited test (Y/N)	Description / Test Method Samples described in accordance with BS EN ISO 14688-2 2004
WS05	B	1.20	1.20	15	-	-	-	-	-	-	-	-	Y	Brown very silty clayey slightly gravelly SAND. Gravel is fine to medium subrounded sandstone. (BS1377Pt2:3.2,9.2,9.5)
WS05	D	2.00	2.00	17	-	-	-	33	16	17	95	CL	Y	Brown slightly sandy slightly gravelly silty CLAY. Gravel is fine to coarse subrounded sandstone. (BS1377Pt2:3.2,4.4,5)

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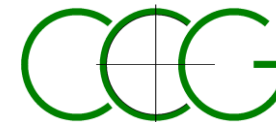
DATE: 29.04.21

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(* Denotes Hand Shear Vane test result)

Sample description not accredited by UKAS



12093 WS05 RES .xls



CC Geotechnical Ltd
Tel: 0151 545 2750
e: lab@ccgeotechnical.com

PARTICLE SIZE DISTRIBUTION

Job Ref

CCG-C-21-12093

Borehole/Pit No.

WS05

Site Name

COTTAM PARKWAY STATION

Sample No.

1

Specimen
Description

Brown very silty clayey slightly gravelly SAND

Depth, m

1.20

Specimen
Reference

Specimen
Depth

m

Sample Type

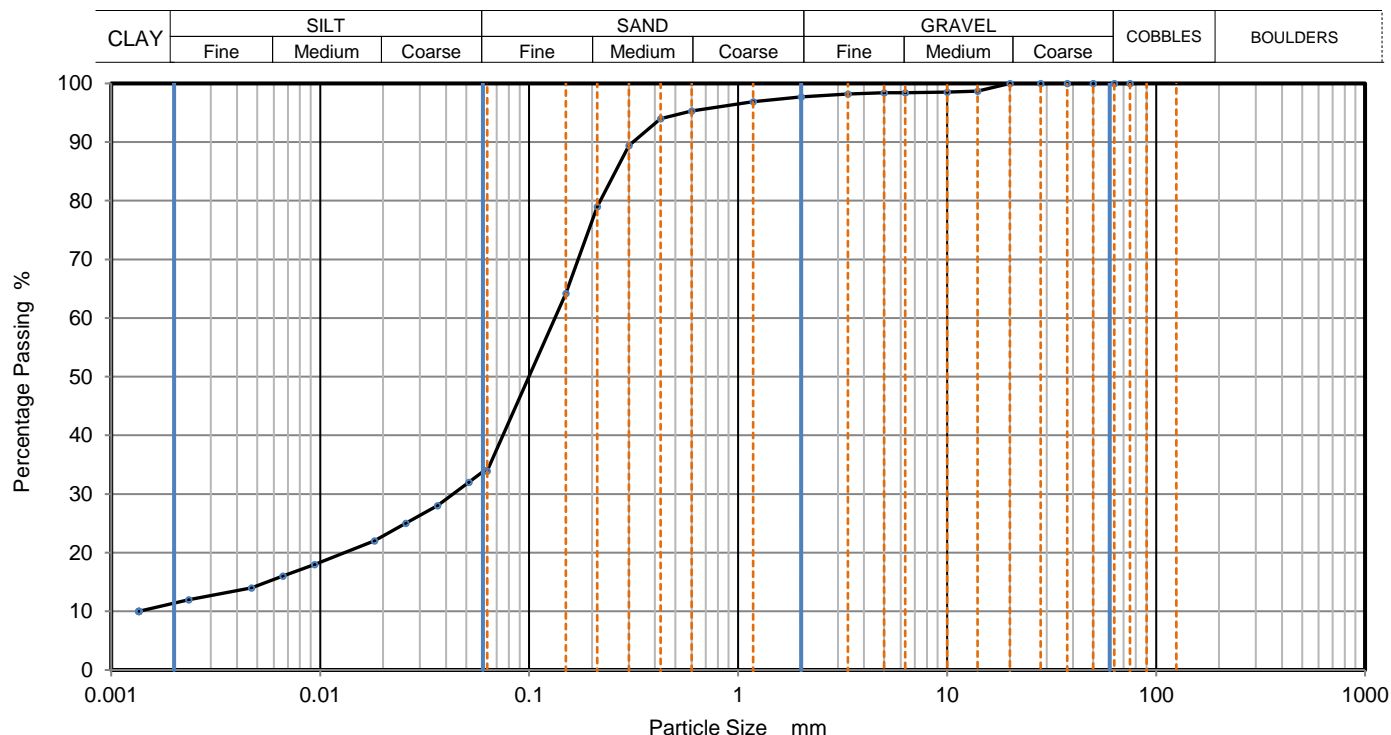
B

Test Method

BS1377:Part 2:1990, clauses 9.2 and 9.5

KeyLAB ID

CCGL202104290



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0612	34
		0.0514	32
75	100	0.0364	28
63	100	0.0257	25
50	100	0.0182	22
37.5	100	0.0094	18
28	100	0.0066	16
20	100	0.0047	14
14	99	0.0023	12
10	99	0.0014	10
6.3	98		
5	98		
3.35	98		
2	98		
1.18	97		
0.6	95	Particle density (assumed) 2.65 Mg/m3	
0.425	94		
0.3	89		
0.212	79		
0.15	64		
0.063	34		

Dry Mass of sample, g

Sample Proportions	% dry mass
Very coarse	0
Gravel	2
Sand	64
Silt	22
Clay	12

Grading Analysis	
D100	mm
D60	mm
D30	mm
D10	mm
Uniformity Coefficient	
Curvature Coefficient	

Remarks

Preparation and testing in accordance with BS1377 unless noted below

Operator

Checked

Approved

Sheet printed

Fig 1

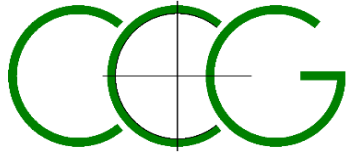
29/04/2021 12:26

Sheet

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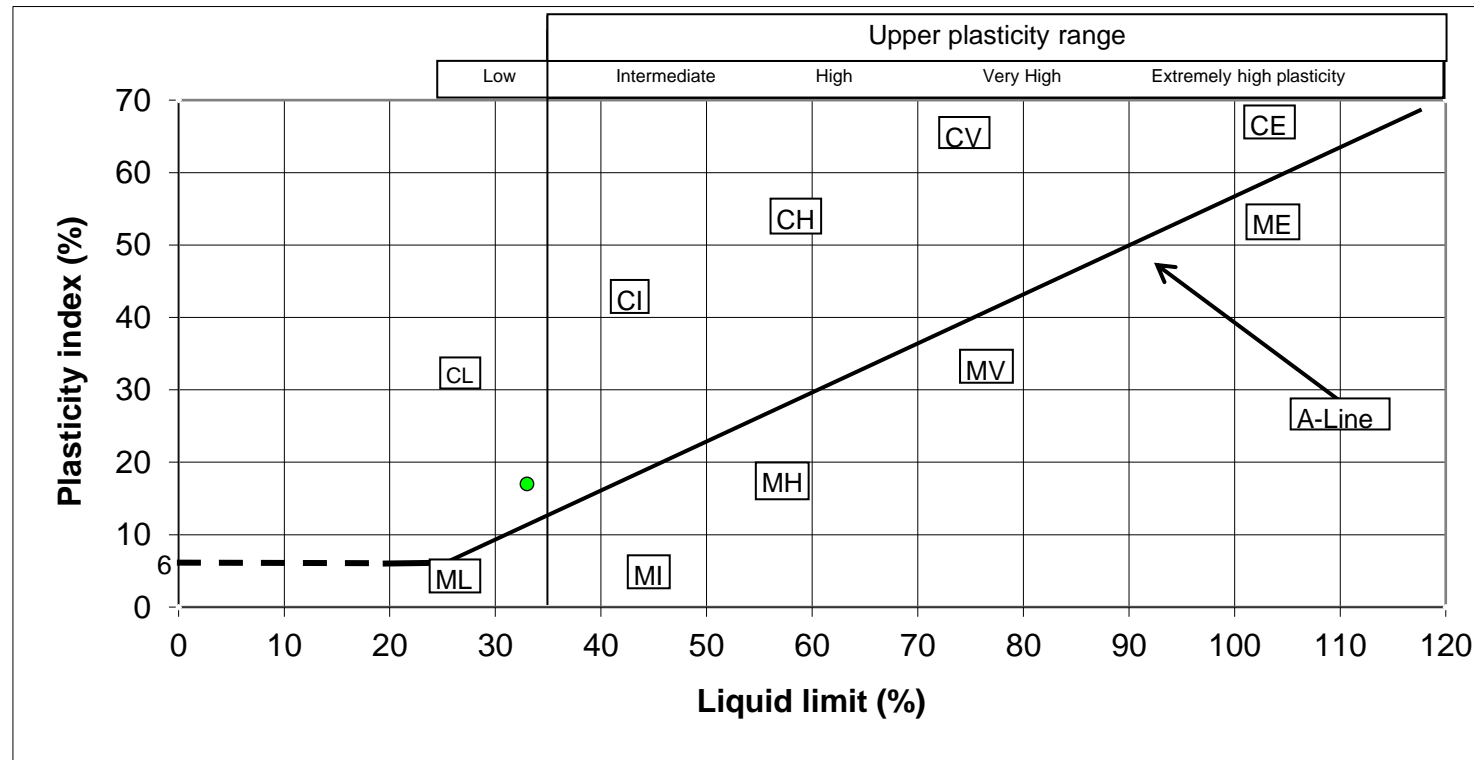
DK



ATTERBERG TEST RESULT SHEET

BS 1377:Part 2:1990:cl 4.4,5

SILT (M-SOIL), M plots below A-Line , CLAY,C, plots above A-Line, M and C may be combined as FINE SOIL, F.



BH	Sample Depth	Liquid limit	Plasticity index
WS05	2.00	33.0	17.0



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CLIENT: LANCASHIRE COUNTY COUNCIL	SITE: COTTAM PARKWAY STATION (CCG-C-21-12093)
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SUMMARY OF LABORATORY SOIL TEST RESULTS

BH / TP / WS Number	Sample Type	Depth From (m)	Depth To (m)	Moisture Content (%)	Bulk Density (Mg/m ³)	Dry Density (Mg/m ³)	Shear Strength (kN/m ²)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Passing 0.425mm (%)	Soil Classification	UKAS accredited test (Y/N)	Description / Test Method Samples described in accordance with BS EN ISO 14688-2 2004
WS06	D	1.50	1.50	14	-	-	-	31	16	15	89	CL	Y	Brown slightly sandy slightly gravelly silty CLAY. Gravel is fine to coarse subrounded sandstone. (BS1377Pt2:3.2,4.4,5)
WS06	D	3.50	3.50	15	-	-	-	33	16	17	93	CL	Y	Brown slightly sandy slightly gravelly silty CLAY. Gravel is fine to coarse subrounded sandstone. (BS1377Pt2:3.2,4.4,5)

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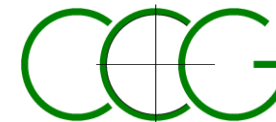
DATE: 29.04.21

Key:- BD = Bulk Disturbed; SD = Small Disturbed; U100 = Undisturbed 100mm; WS = Window Sample

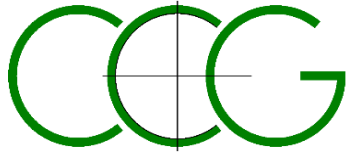
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(* Denotes Hand Shear Vane test result)

Sample description not accredited by UKAS



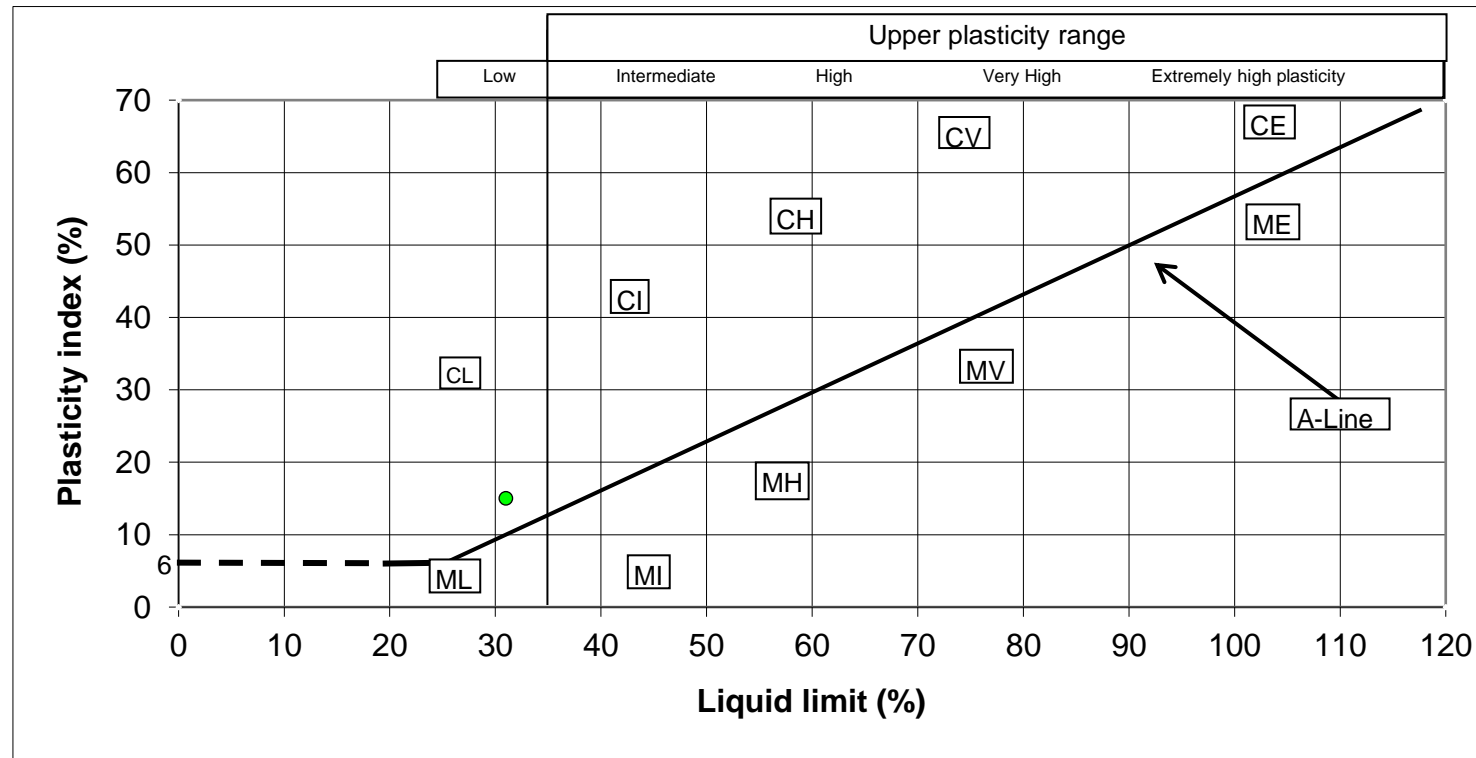
12093 WS06 RES .xls



ATTERBERG TEST RESULT SHEET

BS 1377:Part 2:1990:cl 4.4,5

SILT (M-SOIL), M plots below A-Line, CLAY, C, plots above A-Line, M and C may be combined as FINE SOIL, F.



BH	Sample Depth	Liquid limit	Plasticity index
WS06	1.50	31.0	15.0

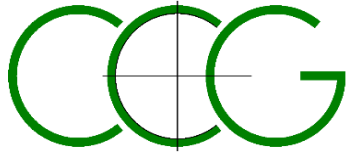


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CLIENT: LANCASHIRE COUNTY COUNCIL	SITE: COTTAM PARKWAY STATION (CCG-C-21-12093)
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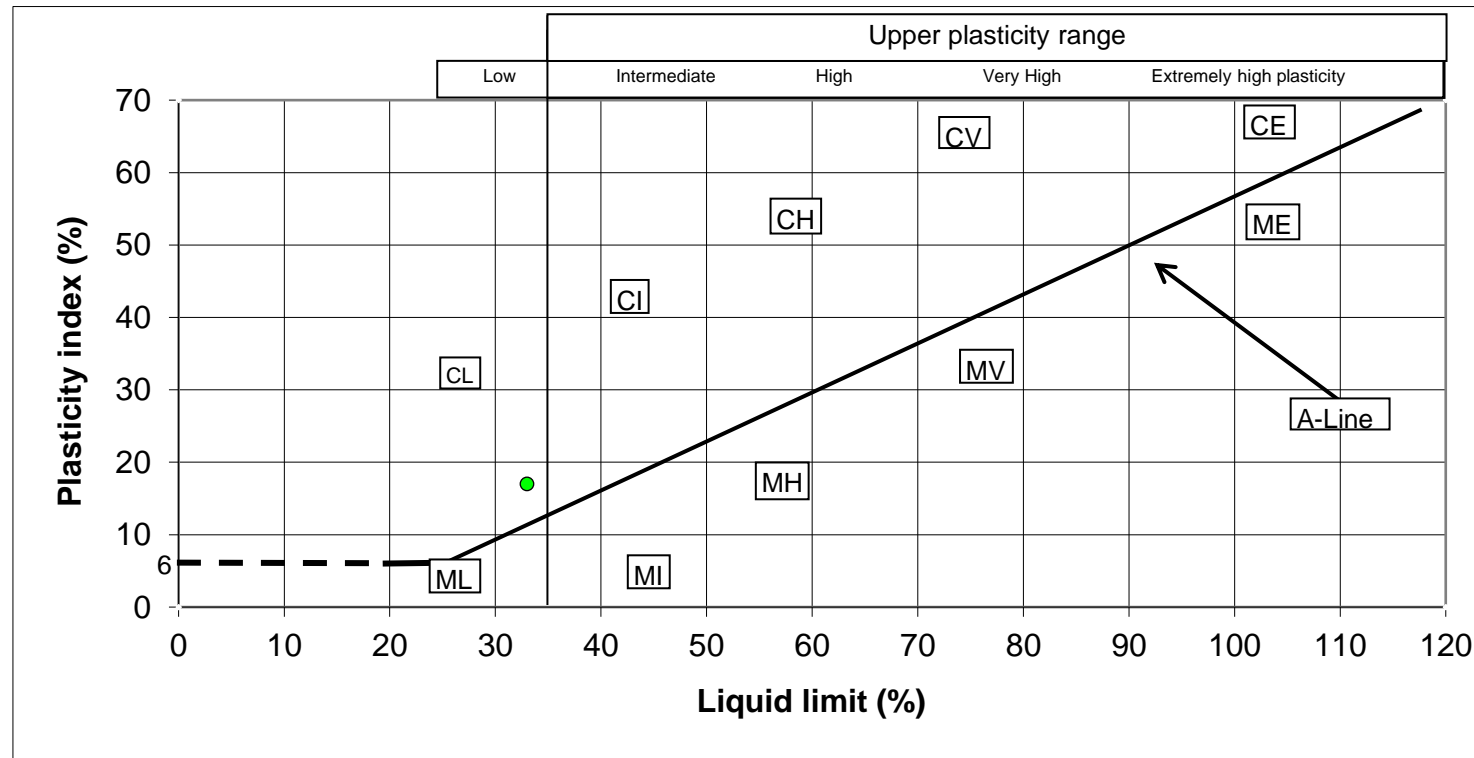
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ATTERBERG TEST RESULT SHEET

BS 1377:Part 2:1990:cl 4.4,5

SILT (M-SOIL), M plots below A-Line , CLAY,C, plots above A-Line, M and C may be combined as FINE SOIL, F.



BH	Sample Depth	Liquid limit	Plasticity index
WS06	3.50	33.0	17.0

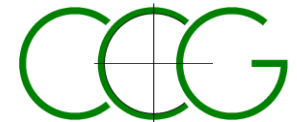


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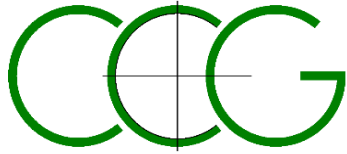
CLIENT: LANCASHIRE COUNTY COUNCIL	SITE: COTTAM PARKWAY STATION (CCG-C-21-12093)
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SITE: COTTAM PARKWAY STATION (CCG-C-21-12093)
CLIENT: LANCASHIRE COUNTY COUNCIL



Sample description not accredited by UKAS

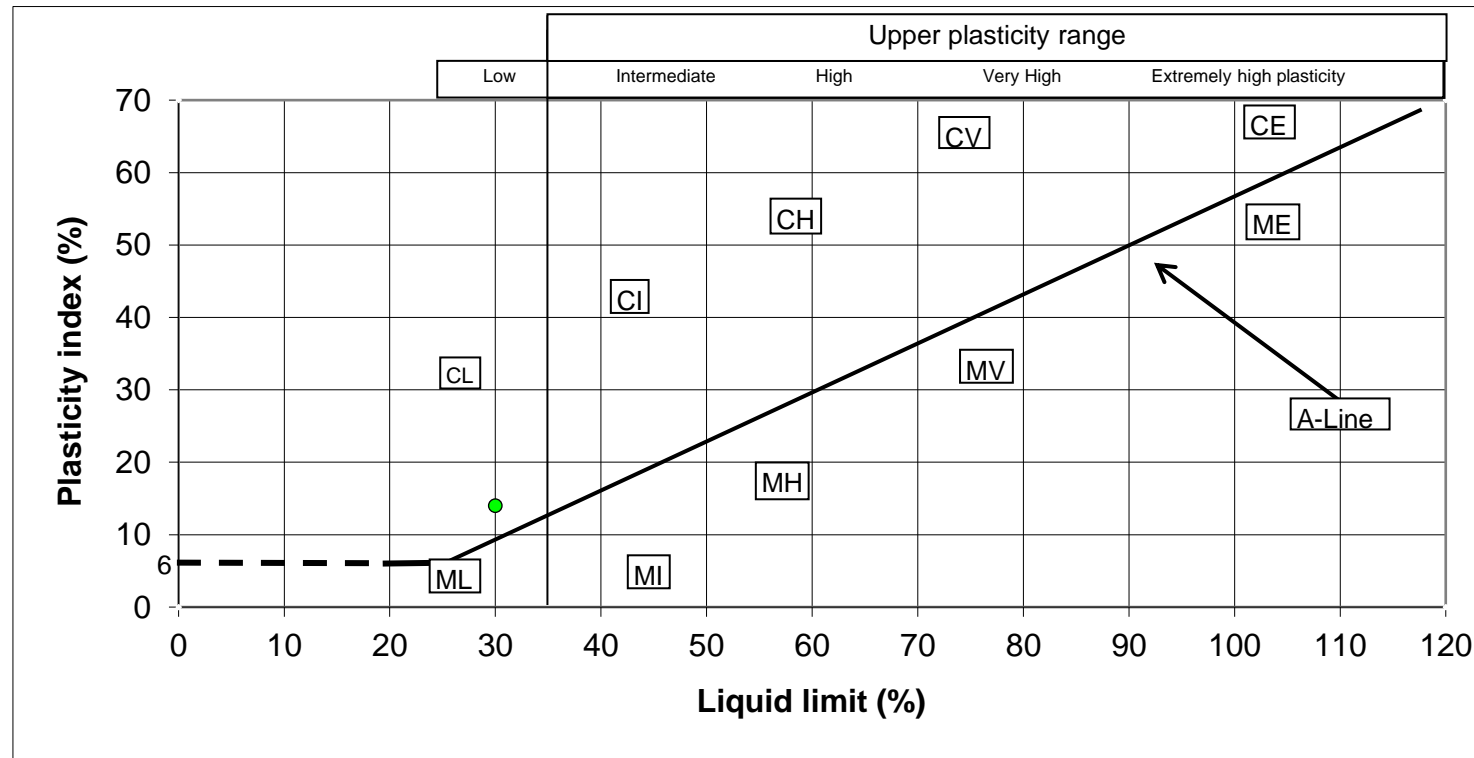
12093 WS07 RES .xls



ATTERBERG TEST RESULT SHEET

BS 1377:Part 2:1990:cl 4.4,5

SILT (M-SOIL), M plots below A-Line , CLAY,C, plots above A-Line, M and C may be combined as FINE SOIL, F.



BH	Sample Depth	Liquid limit	Plasticity index
WS07	1.50	30.0	14.0



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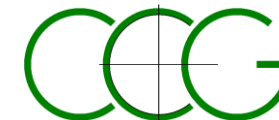
CLIENT: LANCASHIRE COUNTY COUNCIL	SITE: COTTAM PARKWAY STATION (CCG-C-21-12093)
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WS08	D	1.50	1.50	15	-	-	-	-	-	-	-	-	Y	Brown slightly sandy slightly gravelly silty CLAY. Gravel is fine to coarse subrounded sandstone. (BS1377Pt2:3.2)
WS08	D	2.50	2.50	15	-	-	-	30	15	15	93	CL	Y	Brown slightly sandy slightly gravelly silty CLAY. Gravel is fine to coarse subrounded sandstone. (BS1377Pt2:3.2,4.4,5)

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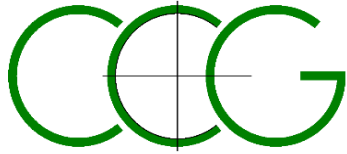
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Sample description not accredited by UKAS

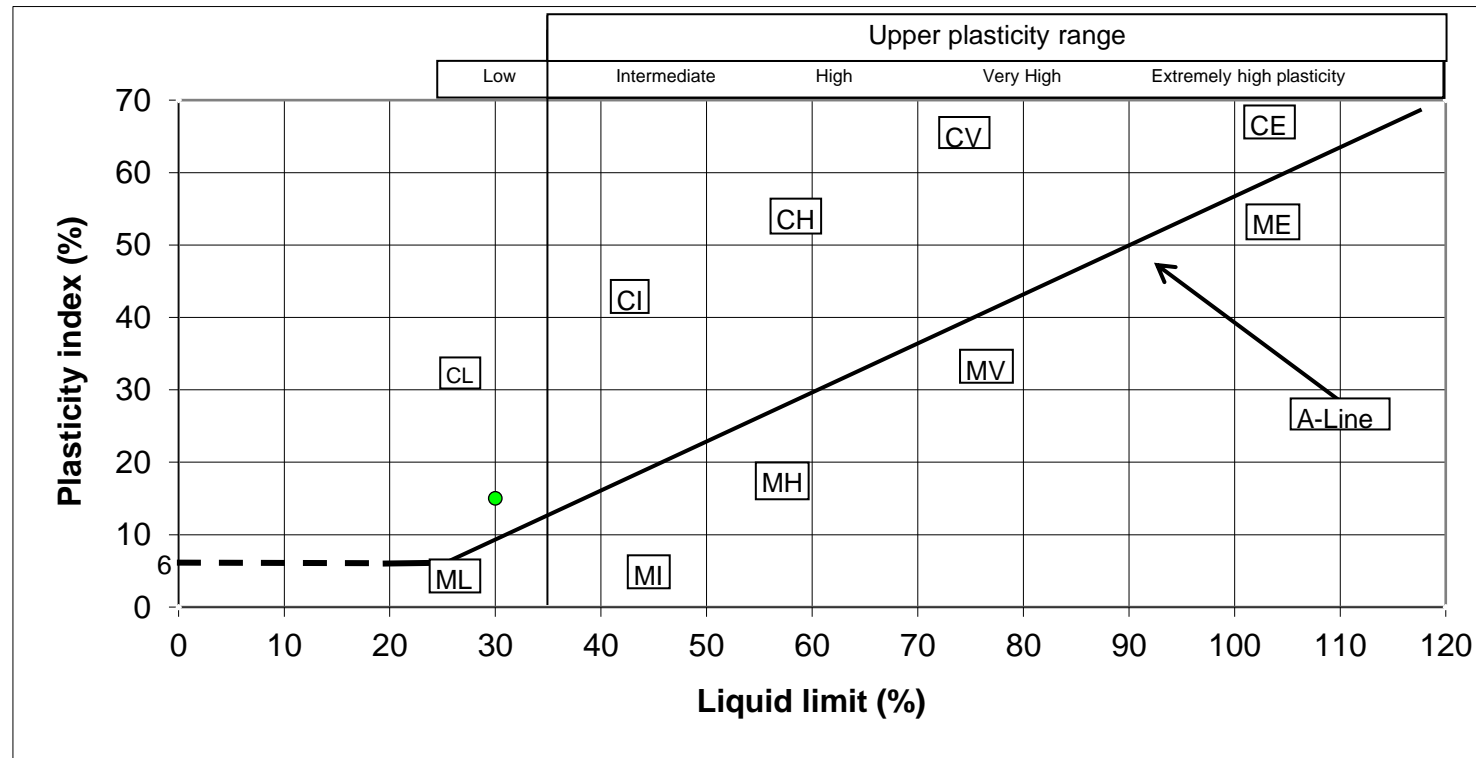
12093 WS08 RES .xls



ATTERBERG TEST RESULT SHEET

BS 1377:Part 2:1990:cl 4.4,5

SILT (M-SOIL), M plots below A-Line , CLAY,C, plots above A-Line, M and C may be combined as FINE SOIL, F.



BH	Sample Depth	Liquid limit	Plasticity index
WS08	2.50	30.0	15.0



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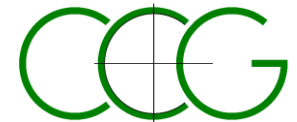
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SITE: COTTAM PARKWAY STATION (CCG-C-21-12093)

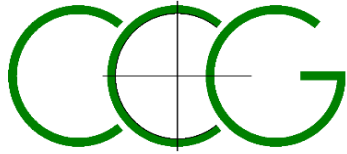
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Sample description not accredited by UKAS

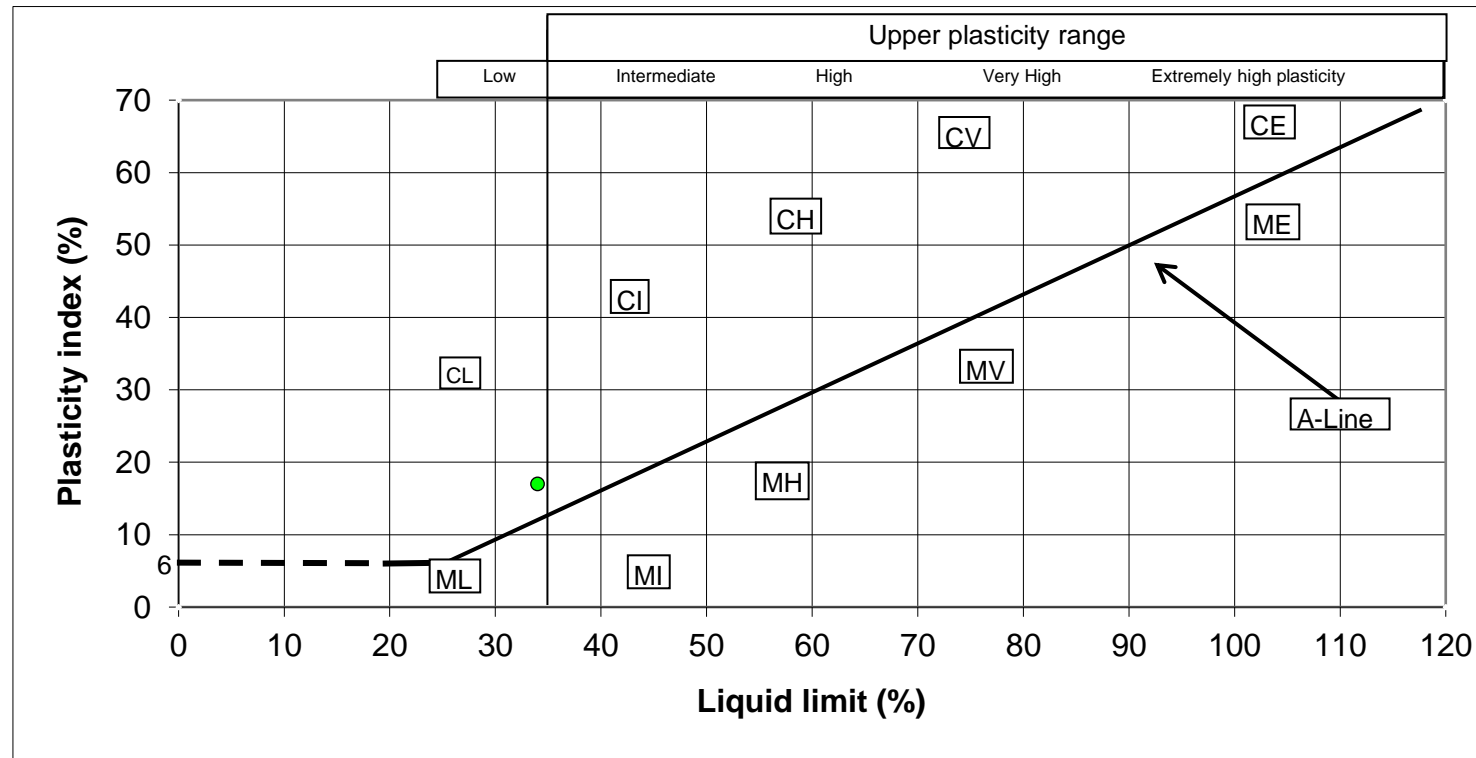
12093 WS09 RES .xls



ATTERBERG TEST RESULT SHEET

BS 1377:Part 2:1990:cl 4.4,5

SILT (M-SOIL), M plots below A-Line, CLAY, C, plots above A-Line, M and C may be combined as FINE SOIL, F.



BH	Sample Depth	Liquid limit	Plasticity index
WS09	3.50	34.0	17.0



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CLIENT: LANCASHIRE COUNTY COUNCIL

SITE: COTTAM PARKWAY STATION (CCG-C-21-12093)

CCG-CMS-FO-204 Issue 2

SUMMARY OF LABORATORY SOIL TEST RESULTS

BH / TP / WS Number	Sample Type	Depth From (m)	Depth To (m)	Moisture Content (%)	Bulk Density (Mg/m ³)	Dry Density (Mg/m ³)	Shear Strength (kN/m ²)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Passing 0.425mm (%)	Soil Classification	UKAS accredited test (Y/N)	Description / Test Method Samples described in accordance with BS EN ISO 14688-2 2004
WS10	D	1.50	1.50	17	-	-	-	34	16	18	96	CL	Y	Brown slightly sandy slightly gravelly silty CLAY. Gravel is fine to medium subrounded sandstone. (BS1377Pt2:3.2,4.4,5)
WS10	D	2.50	2.50	17	-	-	-	-	-	-	-	-	Y	Brown slightly sandy slightly gravelly silty CLAY. Gravel is fine to medium subrounded sandstone. (BS1377Pt2:3.2)

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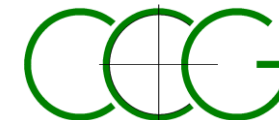
DATE: 29.04.21

Key:- BD = Bulk Disturbed; SD = Small Disturbed; U100 = Undisturbed 100mm; WS = Window Sample

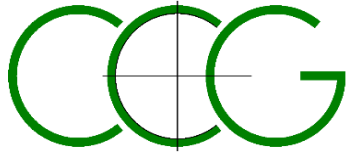
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Sample description not accredited by UKAS



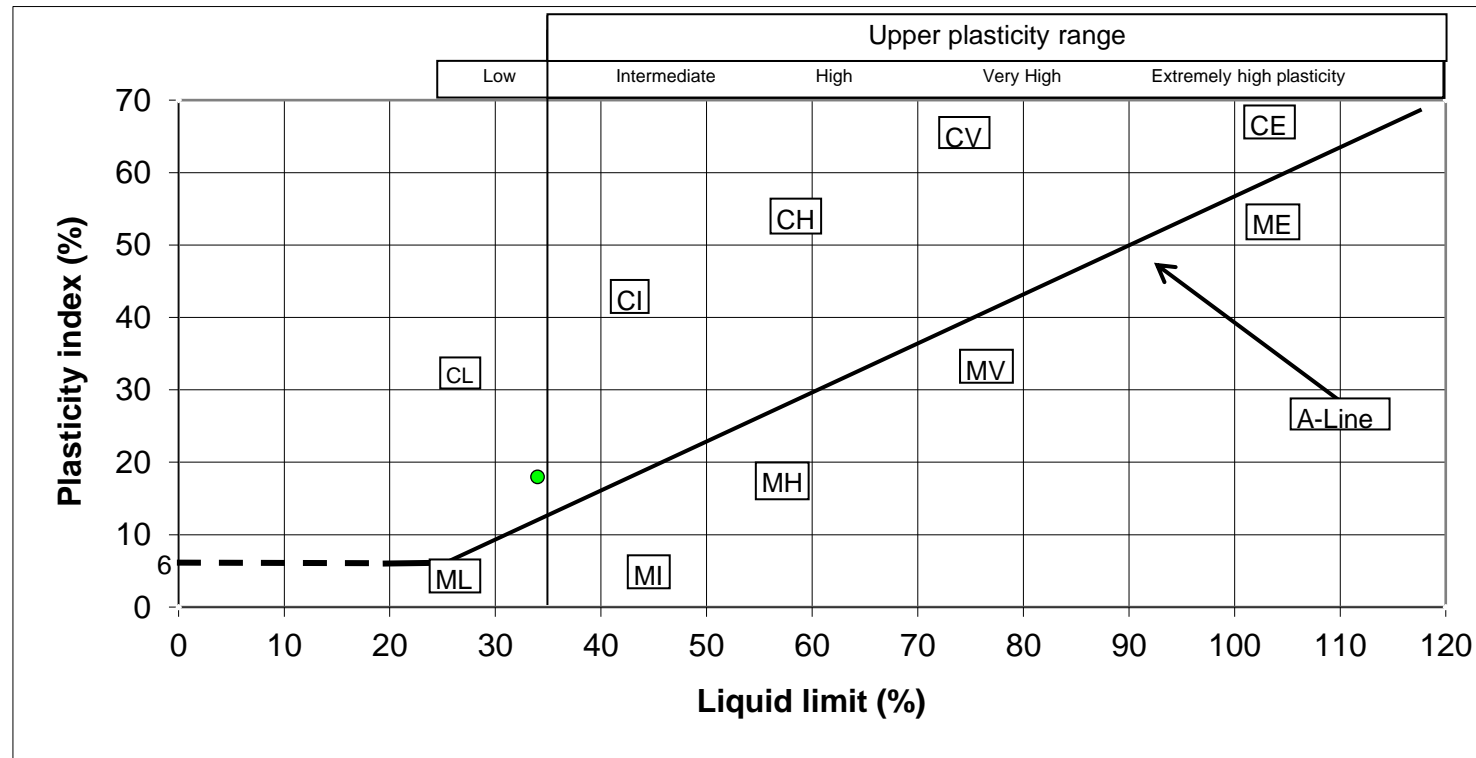
12093 WS10 RES .xls



ATTERBERG TEST RESULT SHEET

BS 1377:Part 2:1990:cl 4.4,5

SILT (M-SOIL), M plots below A-Line, CLAY, C, plots above A-Line, M and C may be combined as FINE SOIL, F.



BH	Sample Depth	Liquid limit	Plasticity index
WS10	1.50	34.0	18.0



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CCG-CMS-FO-204 Issue 2

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WS11	D	1.50	1.50	14	-	-	-	34	17	17	94	CL	Y	Brown slightly sandy slightly gravelly silty CLAY. Gravel is fine to coarse subrounded sandstone. (BS1377Pt2:3.2,4.4,5)
WS11	D	2.50	2.50	16	-	-	-	-	-	-	-	-	Y	Brown slightly sandy slightly gravelly silty CLAY. Gravel is fine to medium subrounded sandstone. (BS1377Pt2:3.2)
WS11	D	3.50	3.50	24	-	-	-	-	-	-	-	-	Y	Brown slightly sandy silty CLAY. (BS1377Pt2:3.2)
WS11	D	4.50	4.50	30	-	-	-	45	20	25	100	CI	Y	Brown slightly sandy silty CLAY. (BS1377Pt2:3.2,4.4,5)

SITE: COTTAM PARKWAY STATION (CCG-C-21-12093)
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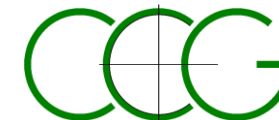
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Key:- BD = Bulk Disturbed; SD = Small Disturbed; U100 = Undisturbed 100mm; WS = Window Sample

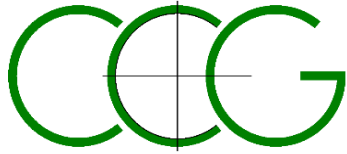
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(* Denotes Hand Shear Vane test result)

Sample description not accredited by UKAS



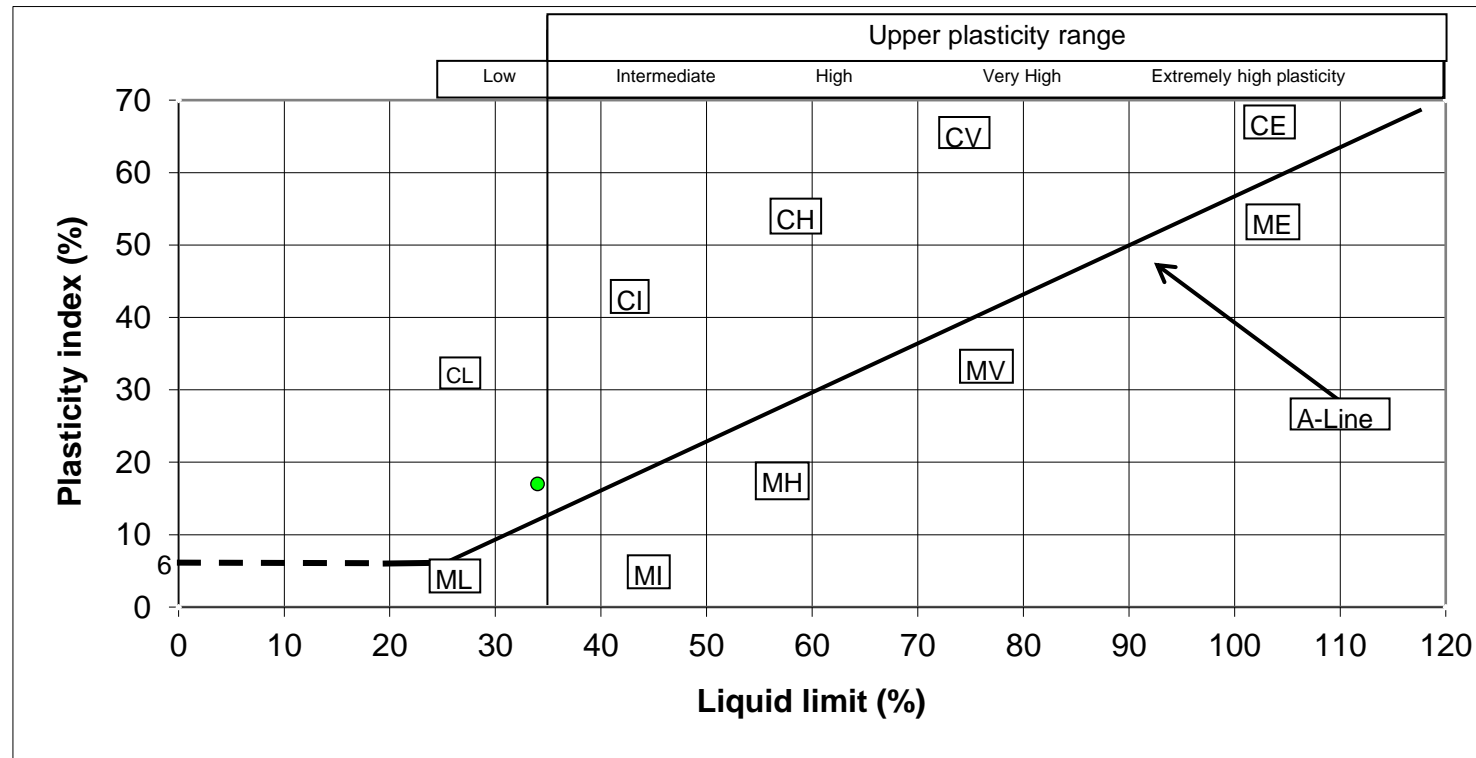
12093 WS11 RES .xls



ATTERBERG TEST RESULT SHEET

BS 1377:Part 2:1990:cl 4.4,5

SILT (M-SOIL), M plots below A-Line, CLAY, C, plots above A-Line, M and C may be combined as FINE SOIL, F.



BH	Sample Depth	Liquid limit	Plasticity index
WS11	1.50	34.0	17.0



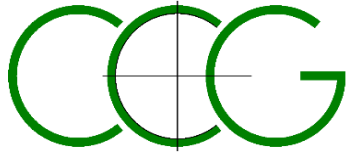
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CLIENT: LANCASHIRE COUNTY COUNCIL

SITE: COTTAM PARKWAY STATION (CCG-C-21-12093)

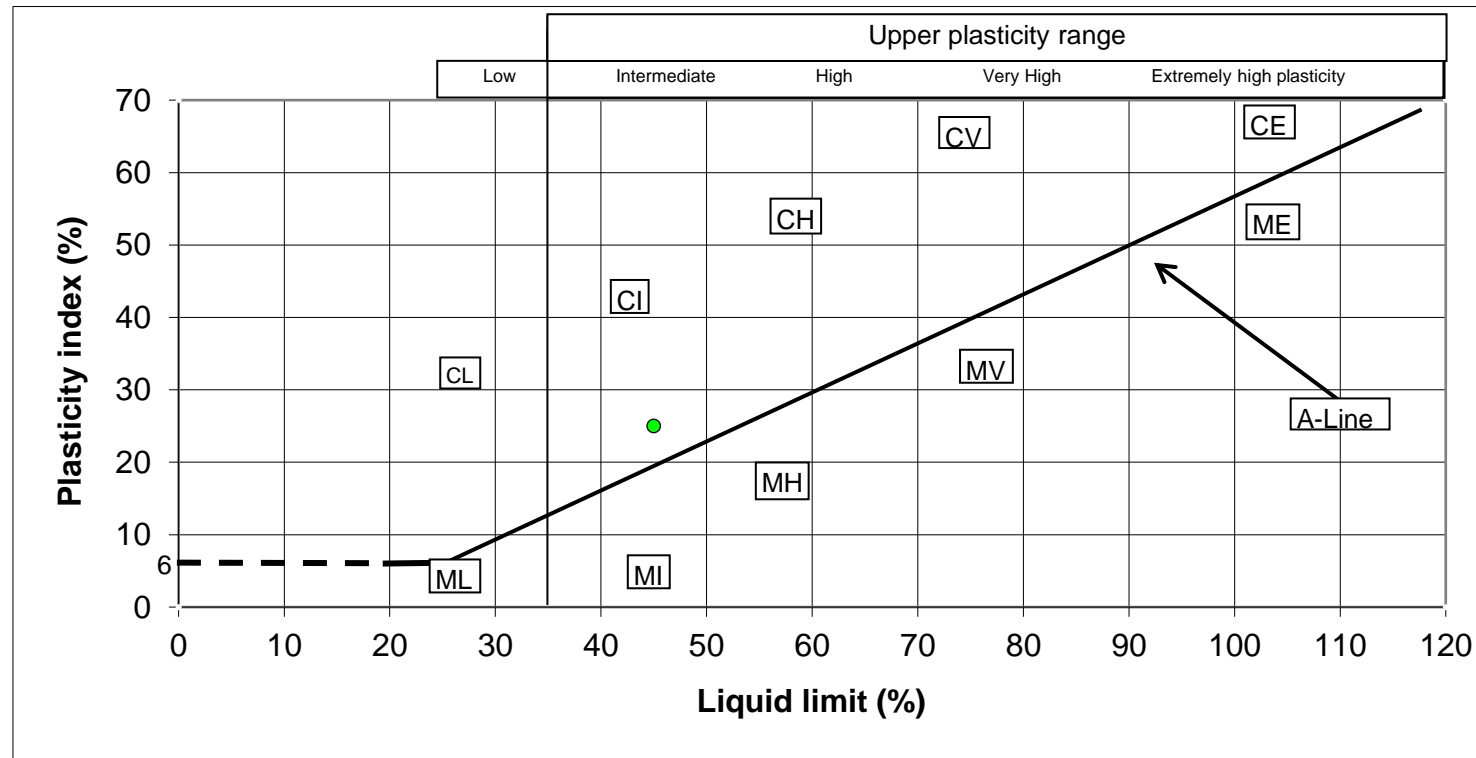
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ATTERBERG TEST RESULT SHEET

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BH	Sample Depth	Liquid limit	Plasticity index
WS11	4.50	45.0	25.0



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WS12	D	1.50	1.50	16	-	-	-	-	-	-	-	-	Y	Brown slightly sandy slightly gravelly silty CLAY. Gravel is fine to coarse subrounded sandstone. (BS1377Pt2:3.2)
WS12	D	3.00	3.00	18	-	-	-	36	17	19	97	CI	Y	Brown slightly sandy slightly gravelly silty CLAY. Gravel is fine to medium subrounded sandstone. (BS1377Pt2:3.2,4.4,5)
WS12	D	4.50	4.50	16	-	-	-	-	-	-	-	-	Y	Brown slightly sandy slightly gravelly silty CLAY. Gravel is fine to medium subrounded sandstone. (BS1377Pt2:3.2)
WS12	D	5.50	5.50	31	-	-	-	49	21	28	100	CI	Y	Brown slightly sandy silty CLAY. (BS1377Pt2:3.2,4.4,5)

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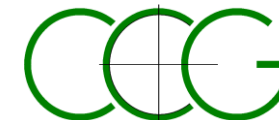
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Key:- BD = Bulk Disturbed; SD = Small Disturbed; U100 = Undisturbed 100mm; WS = Window Sample

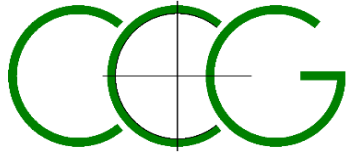
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Sample description not accredited by UKAS



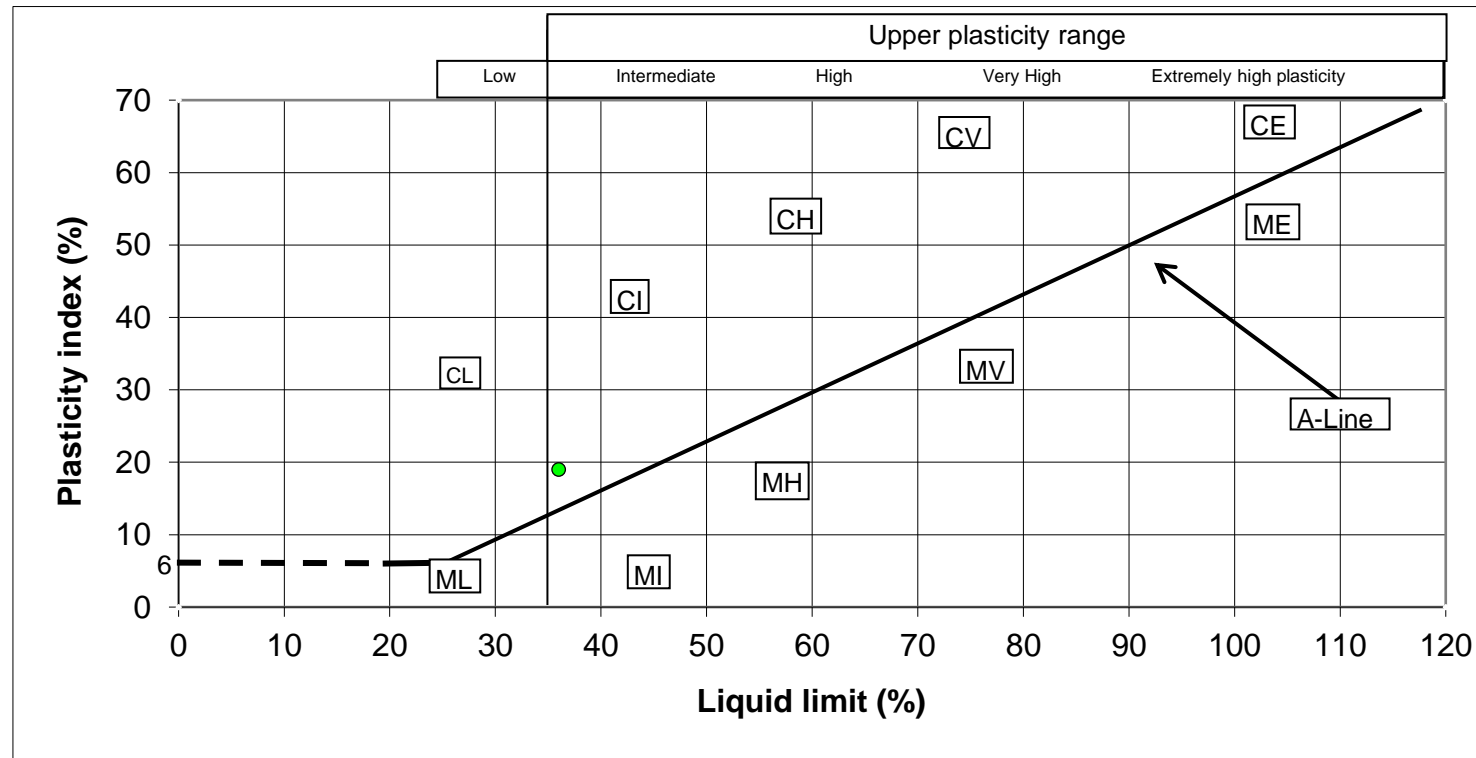
12093 WS12 RES .xls



ATTERBERG TEST RESULT SHEET

BS 1377:Part 2:1990:cl 4.4,5

SILT (M-SOIL), M plots below A-Line, CLAY, C, plots above A-Line, M and C may be combined as FINE SOIL, F.



BH	Sample Depth	Liquid limit	Plasticity index
WS12	3.00	36.0	19.0

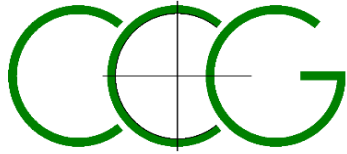


4514

APPROVED BY	DK
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CLIENT: LANCASHIRE COUNTY COUNCIL	SITE: COTTAM PARKWAY STATION (CCG-C-21-12093)
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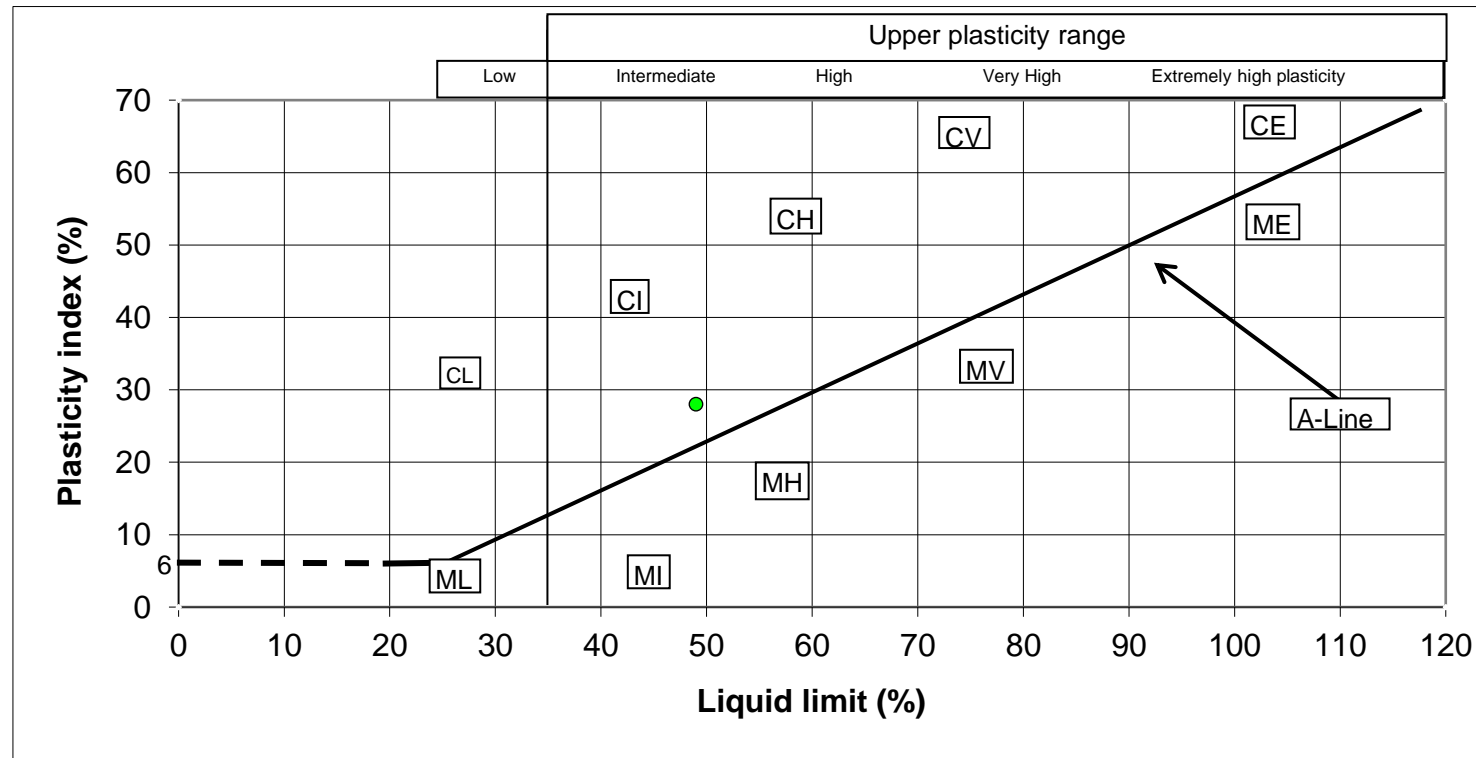
CCG-CMS-FO-204 Issue 2



ATTERBERG TEST RESULT SHEET

BS 1377:Part 2:1990:cl 4.4,5

SILT (M-SOIL), M plots below A-Line , CLAY,C, plots above A-Line, M and C may be combined as FINE SOIL, F.



BH	Sample Depth	Liquid limit	Plasticity index
WS12	5.50	49.0	28.0



4514

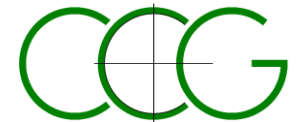
APPROVED BY	DK
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CLIENT: LANCASHIRE COUNTY COUNCIL

SITE: COTTAM PARKWAY STATION (CCG-C-21-12093)

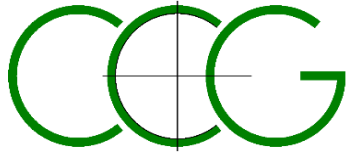
CCG-CMS-FO-204 Issue 2

SITE: COTTAM PARKWAY STATION (CCG-C-21-12093)
CLIENT: LANCASHIRE COUNTY COUNCIL



Sample description not accredited by UKAS

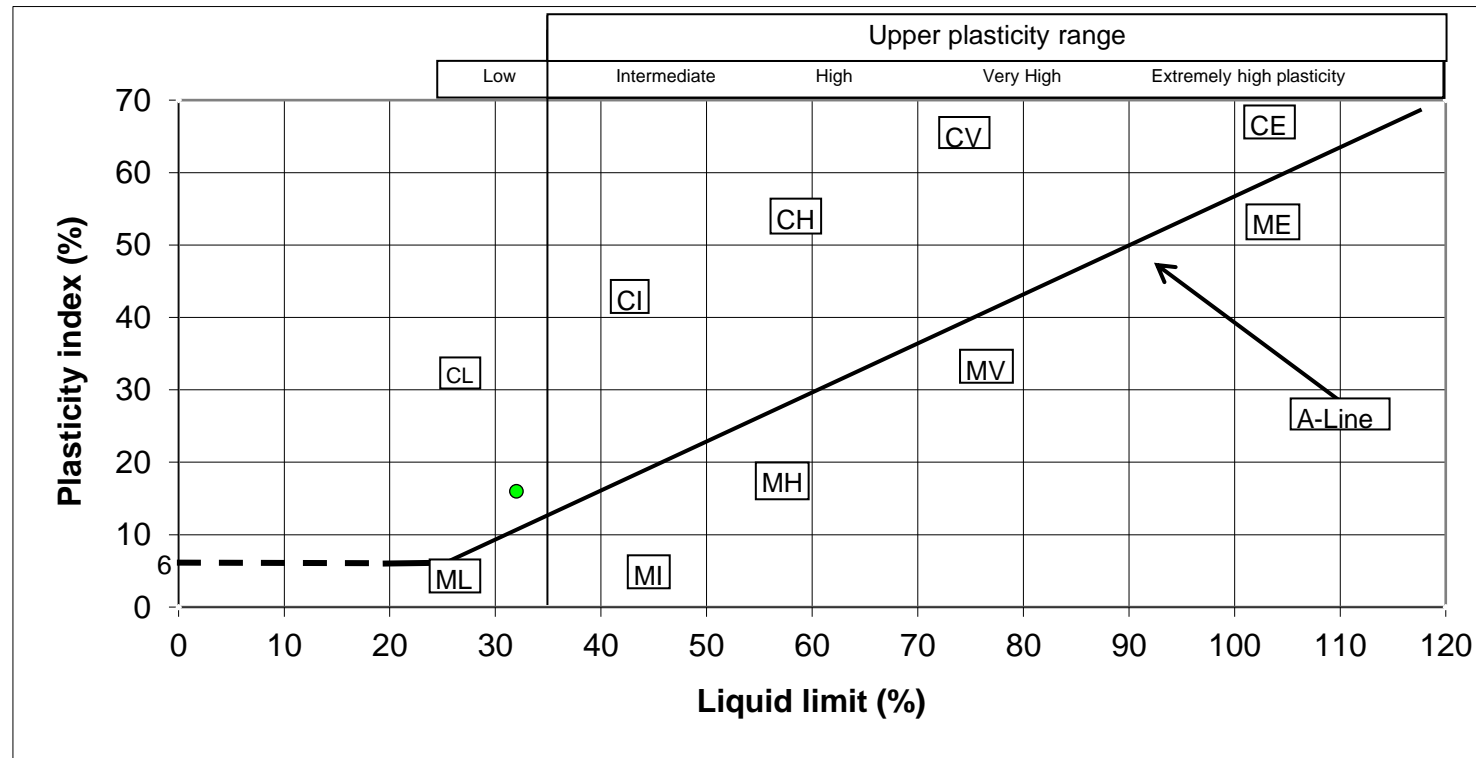
12093 WS13 RES .xls



ATTERBERG TEST RESULT SHEET

BS 1377:Part 2:1990:cl 4.4,5

SILT (M-SOIL), M plots below A-Line, CLAY,C, plots above A-Line, M and C may be combined as FINE SOIL, F.



BH	Sample Depth	Liquid limit	Plasticity index
WS13	1.50	32.0	16.0



4514

APPROVED BY	DK
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CLIENT: LANCASHIRE COUNTY COUNCIL	SITE: COTTAM PARKWAY STATION (CCG-C-21-12093)
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CCG-CMS-FO-204 Issue 2

SUMMARY OF LABORATORY SOIL TEST RESULTS

BH / TP / WS Number	Sample Type	Depth From (m)	Depth To (m)	Moisture Content (%)	Bulk Density (Mg/m ³)	Dry Density (Mg/m ³)	Shear Strength (kN/m ²)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Passing 0.425mm (%)	Soil Classification	UKAS accredited test (Y/N)	Description / Test Method Samples described in accordance with BS EN ISO 14688-2 2004
WS14	D	1.50	1.50	16	-	-	-	-	-	-	-	-	Y	Brown slightly sandy slightly gravelly silty CLAY. Gravel is fine to coarse subrounded sandstone. (BS1377Pt2:3.2)
WS14	D	2.50	2.50	16	-	-	-	33	15	17	92	CL	Y	Brown slightly sandy slightly gravelly silty CLAY. Gravel is fine to coarse subrounded sandstone. (BS1377Pt2:3.2,4.4,5)
WS14	D	4.50	4.50	32	-	-	-	47	20	27	100	CI	Y	Brown slightly sandy silty CLAY. (BS1377Pt2:3.2,4.4,5)
WS14	D	5.50	5.50	30	-	-	-	-	-	-	-	-	Y	Brown slightly sandy silty CLAY. (BS1377Pt2:3.2)

SITE: COTTAM PARKWAY STATION (CCG-C-21-12093)
CLIENT: LANCASHIRE COUNTY COUNCIL

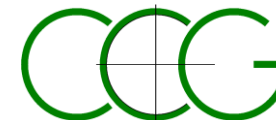
DATE: 29.04.21

Key:- BD = Bulk Disturbed; SD = Small Disturbed; U100 = Undisturbed 100mm; WS = Window Sample

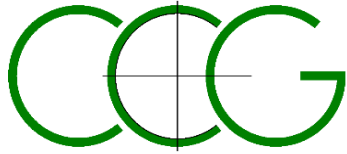
CL = Low Plasticity; CI = Intermediate; CH = High; CV = Very high; CE = Extremely high; NP = Non-plastic

(* Denotes Hand Shear Vane test result)

Sample description not accredited by UKAS



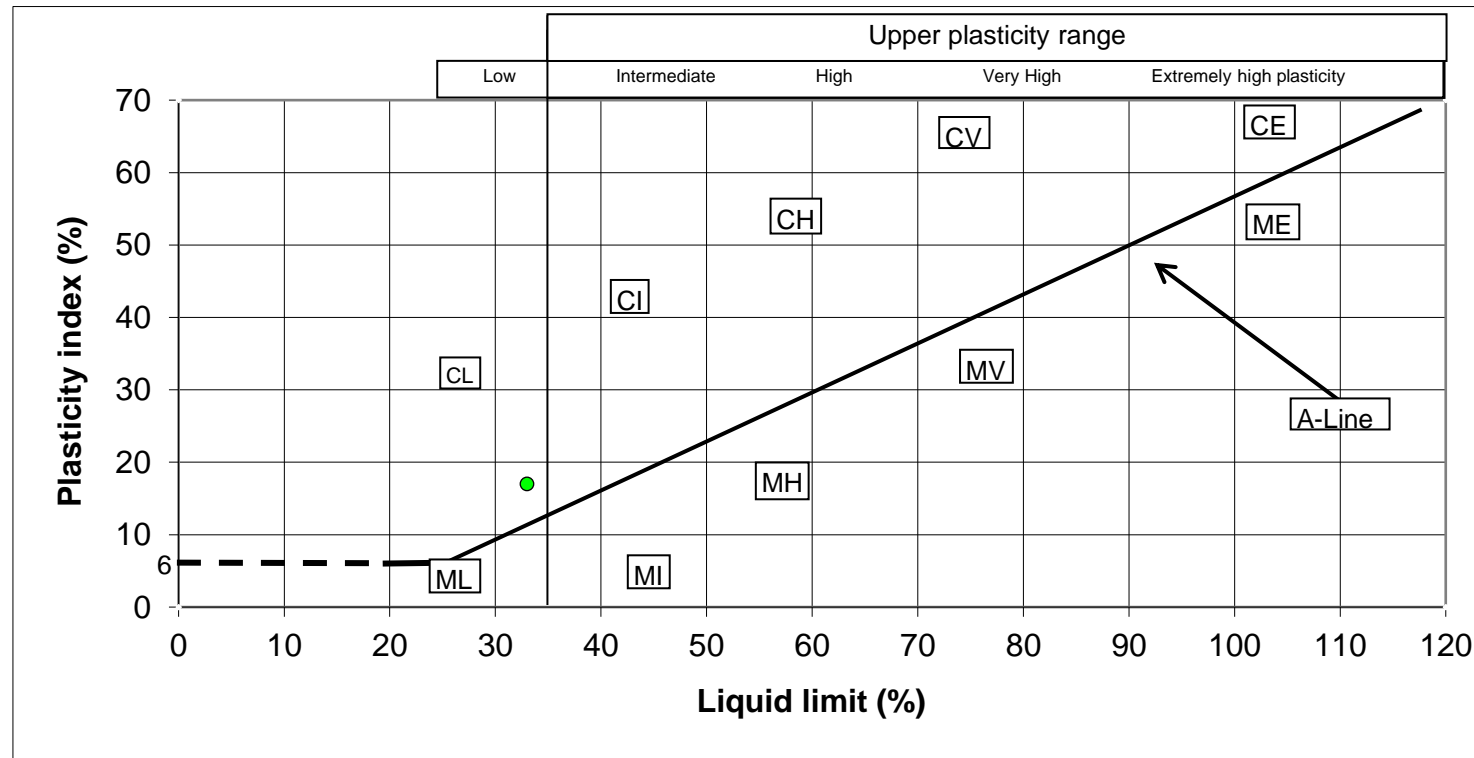
12093 WS14 RES .xls



ATTERBERG TEST RESULT SHEET

BS 1377:Part 2:1990:cl 4.4,5

SILT (M-SOIL), M plots below A-Line , CLAY,C, plots above A-Line, M and C may be combined as FINE SOIL, F.



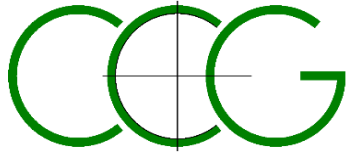
BH	Sample Depth	Liquid limit	Plasticity index
WS14	2.50	33.0	17.0



4514

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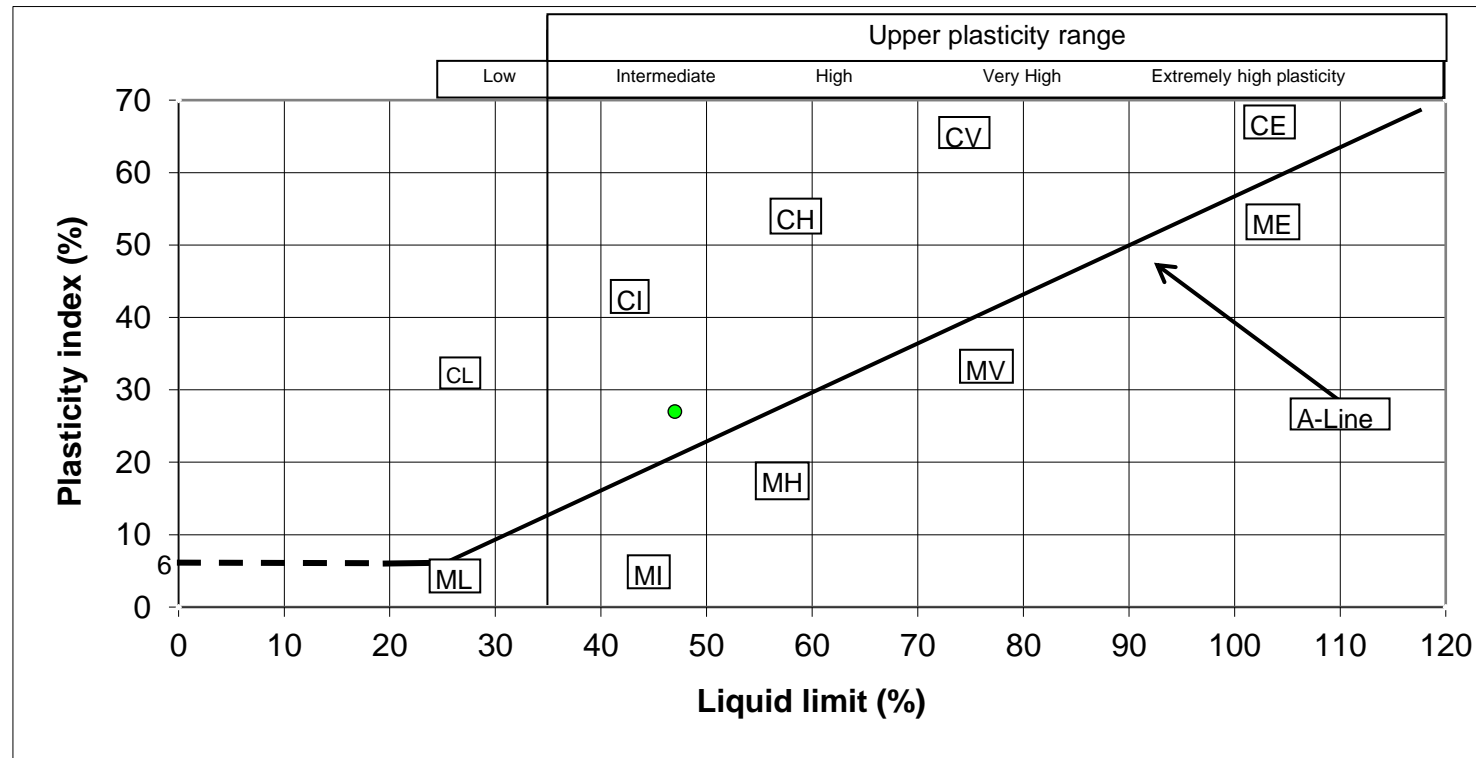
CLIENT: LANCASHIRE COUNTY COUNCIL	SITE: COTTAM PARKWAY STATION (CCG-C-21-12093)
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ATTERBERG TEST RESULT SHEET

BS 1377:Part 2:1990:cl 4.4,5

SILT (M-SOIL), M plots below A-Line, CLAY, C, plots above A-Line, M and C may be combined as FINE SOIL, F.



BH	Sample Depth	Liquid limit	Plasticity index
WS14	4.50	47.0	27.0



4514

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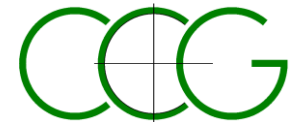
CLIENT: LANCASHIRE COUNTY COUNCIL

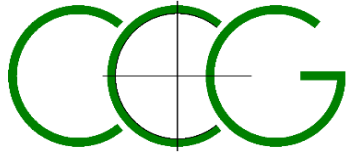
SITE: COTTAM PARKWAY STATION (CCG-C-21-12093)

CCG-CMS-FO-204 Issue 2

SITE: COTTAM PARKWAY STATION (CCG-C-21-12093)
CLIENT: LANCASHIRE COUNTY COUNCIL

Key:- BD = Bulk Disturbed; SD = Small Disturbed; U100 = Undisturbed 100mm; WS = Window Sample
CL = Low Plasticity; CI = Intermediate; CH = High; CV = Very high; CE = Extremely high; NP = Non-plastic
(* Denotes Hand Shear Vane test result)
Sample description not accredited by UKAS

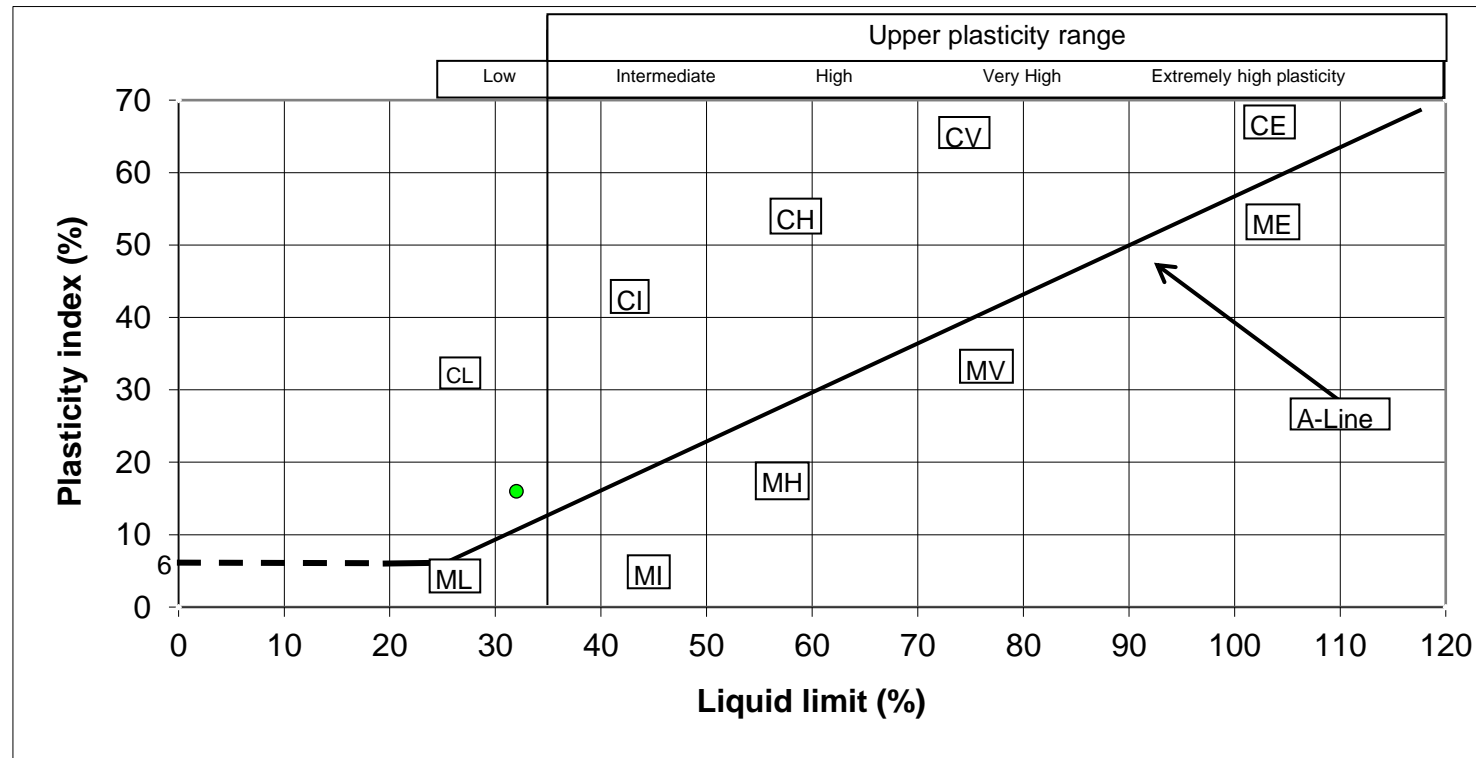




ATTERBERG TEST RESULT SHEET

BS 1377:Part 2:1990:cl 4.4,5

SILT (M-SOIL), M plots below A-Line, CLAY, C, plots above A-Line, M and C may be combined as FINE SOIL, F.



BH	Sample Depth	Liquid limit	Plasticity index
WS15	1.50	32.0	16.0



4514

APPROVED BY	DK
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CLIENT: LANCASHIRE COUNTY COUNCIL	SITE: COTTAM PARKWAY STATION (CCG-C-21-12093)
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CCG-CMS-FO-204 Issue 2

SUMMARY OF LABORATORY SOIL TEST RESULTS

BH / TP / WS Number	Sample Type	Depth From (m)	Depth To (m)	Moisture Content (%)	Bulk Density (Mg/m ³)	Dry Density (Mg/m ³)	Shear Strength (kN/m ²)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Passing 0.425mm (%)	Soil Classification	UKAS accredited test (Y/N)	Description / Test Method Samples described in accordance with BS EN ISO 14688-2 2004
WS16	D	1.50	1.50	16	-	-	-	-	-	-	-	-	Y	Brown slightly sandy slightly gravelly silty CLAY. Gravel is fine to coarse subrounded sandstone. (BS1377Pt2:3.2)
WS16	D	2.50	2.50	15	-	-	-	31	15	16	93	CL	Y	Brown slightly sandy slightly gravelly silty CLAY. Gravel is fine to coarse subrounded sandstone. (BS1377Pt2:3.2,4.4,5)

SITE: COTTAM PARKWAY STATION (CCG-C-21-12093)
CLIENT: LANCASHIRE COUNTY COUNCIL

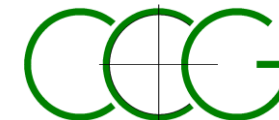
DATE: 29.04.21

Key:- BD = Bulk Disturbed; SD = Small Disturbed; U100 = Undisturbed 100mm; WS = Window Sample

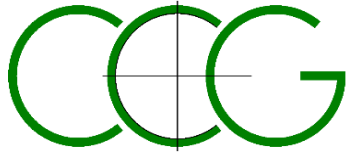
CL = Low Plasticity; CI = Intermediate; CH = High; CV = Very high; CE = Extremely high; NP = Non-plastic

(* Denotes Hand Shear Vane test result)

Sample description not accredited by UKAS



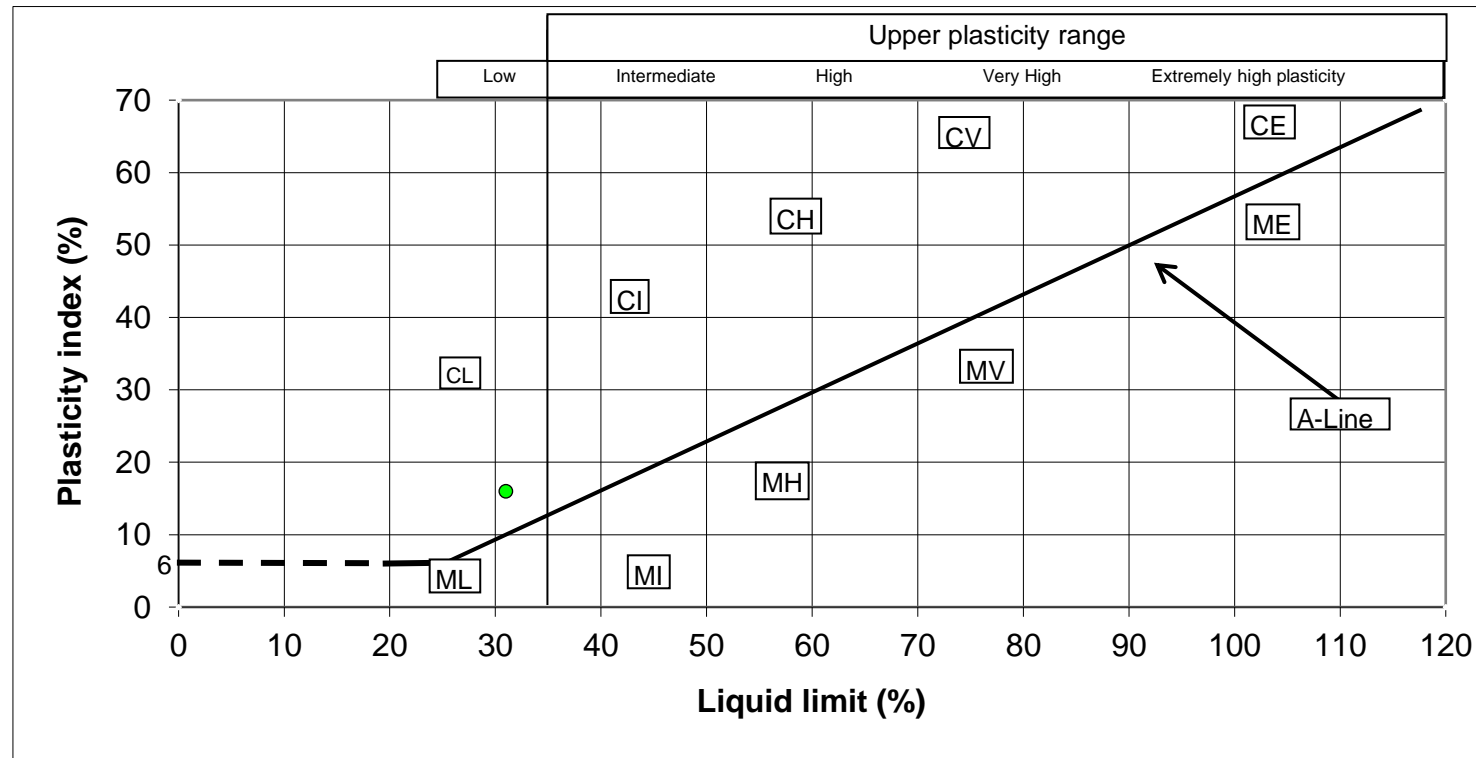
12093 WS16 RES .xls



ATTERBERG TEST RESULT SHEET

BS 1377:Part 2:1990:cl 4.4,5

SILT (M-SOIL), M plots below A-Line , CLAY,C, plots above A-Line, M and C may be combined as FINE SOIL, F.



BH	Sample Depth	Liquid limit	Plasticity index
WS16	2.50	31.0	16.0



4514

APPROVED BY	DK
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CLIENT: LANCASHIRE COUNTY COUNCIL

SITE: COTTAM PARKWAY STATION (CCG-C-21-12093)

CCG-CMS-FO-204 Issue 2

SUMMARY OF LABORATORY SOIL TEST RESULTS

BH / TP / WS Number	Sample Type	Depth From (m)	Depth To (m)	Moisture Content (%)	Bulk Density (Mg/m ³)	Dry Density (Mg/m ³)	Shear Strength (kN/m ²)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Passing 0.425mm (%)	Soil Classification	UKAS accredited test (Y/N)	Description / Test Method Samples described in accordance with BS EN ISO 14688-2 2004
WS17	D	1.50	1.50	15	-	-	-	30	15	15	91	CL	Y	Brown slightly sandy slightly gravelly silty CLAY. Gravel is fine to coarse subrounded sandstone. (BS1377Pt2:3.2,4.4,5)
WS17	D	2.50	2.50	16	-	-	-	-	-	-	-	-	Y	Brown slightly sandy slightly gravelly silty CLAY. Gravel is fine to medium subrounded sandstone. (BS1377Pt2:3.2)

SITE: COTTAM PARKWAY STATION (CCG-C-21-12093)
CLIENT: LANCASHIRE COUNTY COUNCIL

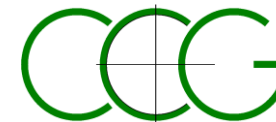
DATE: 29.04.21

Key:- BD = Bulk Disturbed; SD = Small Disturbed; U100 = Undisturbed 100mm; WS = Window Sample

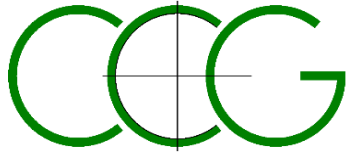
CL = Low Plasticity; CI = Intermediate; CH = High; CV = Very high; CE = Extremely high; NP = Non-plastic

(* Denotes Hand Shear Vane test result)

Sample description not accredited by UKAS



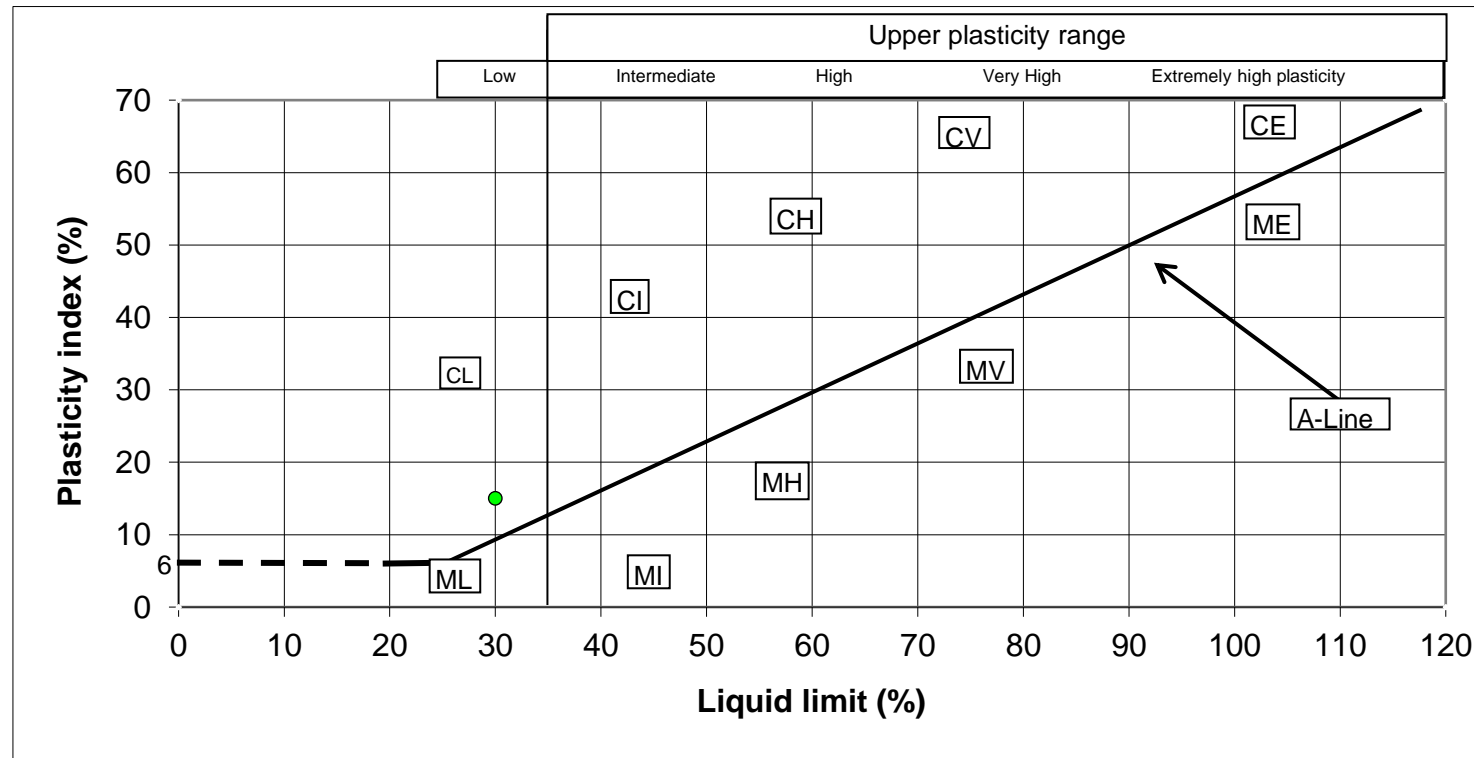
12093 WS17 RES .xls



ATTERBERG TEST RESULT SHEET

BS 1377:Part 2:1990:cl 4.4,5

SILT (M-SOIL), M plots below A-Line , CLAY,C, plots above A-Line, M and C may be combined as FINE SOIL, F.



BH	Sample Depth	Liquid limit	Plasticity index
WS17	1.50	30.0	15.0



4514

APPROVED BY	DK
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CLIENT: LANCASHIRE COUNTY COUNCIL	SITE: COTTAM PARKWAY STATION (CCG-C-21-12093)
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SUMMARY OF LABORATORY SOIL TEST RESULTS

BH / TP / WS Number	Sample Type	Depth From (m)	Depth To (m)	Moisture Content (%)	Bulk Density (Mg/m ³)	Dry Density (Mg/m ³)	Shear Strength (kN/m ²)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Passing 0.425mm (%)	Soil Classification	UKAS accredited test (Y/N)	Description / Test Method Samples described in accordance with BS EN ISO 14688-2 2004
WS18	D	1.50	1.50	15	-	-	-	-	-	-	-	-	Y	Brown slightly sandy slightly gravelly silty CLAY. Gravel is fine to coarse subrounded sandstone. (BS1377Pt2:3.2)
WS18	D	2.50	2.50	15	-	-	-	29	14	15	90	CL	Y	Brown slightly sandy slightly gravelly silty CLAY. Gravel is fine to coarse subrounded sandstone. (BS1377Pt2:3.2,4.4,5)

SITE: COTTAM PARKWAY STATION (CCG-C-21-12093)
 CLIENT: LANCASHIRE COUNTY COUNCIL

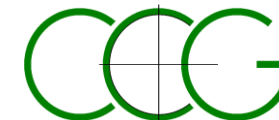
DATE: 29.04.21

Key:- BD = Bulk Disturbed; SD = Small Disturbed; U100 = Undisturbed 100mm; WS = Window Sample

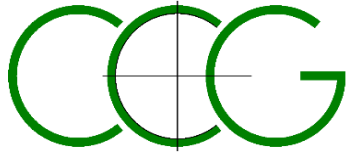
CL = Low Plasticity; CI = Intermediate; CH = High; CV = Very high; CE = Extremely high; NP = Non-plastic

(* Denotes Hand Shear Vane test result)

Sample description not accredited by UKAS



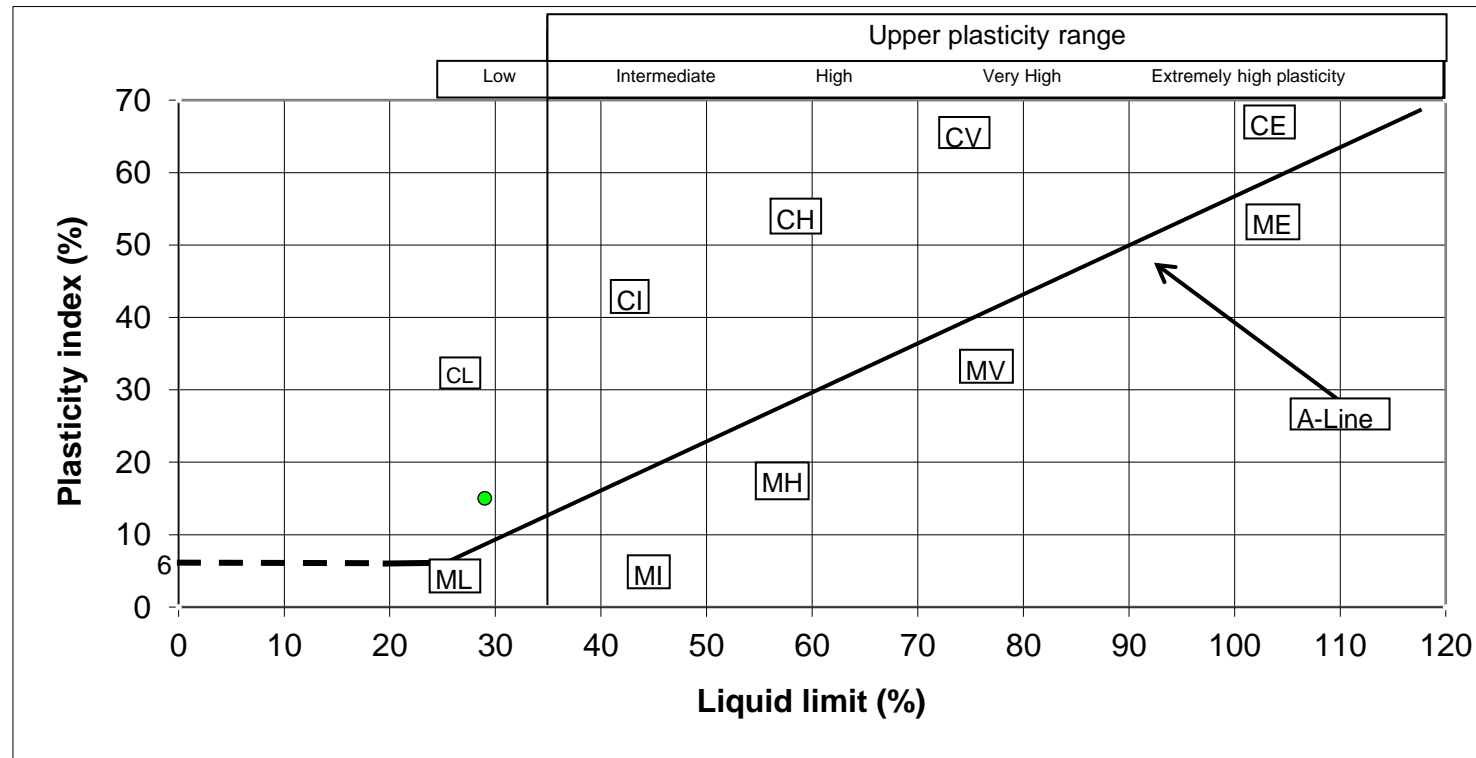
12093 WS18 RES .xls



ATTERBERG TEST RESULT SHEET

BS 1377:Part 2:1990:cl 4.4,5

SILT (M-SOIL), M plots below A-Line, CLAY, C, plots above A-Line, M and C may be combined as FINE SOIL, F.



BH	Sample Depth	Liquid limit	Plasticity index
WS18	2.50	29.0	15.0



4514

APPROVED BY	DK
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CLIENT: LANCASHIRE COUNTY COUNCIL	SITE: COTTAM PARKWAY STATION (CCG-C-21-12093)
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CCG-CMS-FO-204 Issue 2



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: 21-33082

Issue: 1

Date of Issue: 15/04/2021

Contact: Sam Parry

Customer Details: CC Geotechnical Ltd
Unit 1 & 2 Deltic Place
Deltic Way
Liverpool
Merseyside L33 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: 

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.: 21-33082, issue number 1

Elab No.	Client's Ref.	Date Sampled	Date Scheduled	Description	Deviations
232849	TP01 0.40	23/03/2021	08/04/2021	Silty loam	



Results Summary

2683

Report No.: 21-33082, issue number 1

ELAB Reference	232849
Customer Reference	
Sample ID	
Sample Type	BULK
Sample Location	TP01
Sample Depth (m)	0.40
Sampling Date	23/03/2021

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	M	g/l	0.02	< 0.02
Inorganics				
Acid Soluble Sulphate (SO ₄)	U	%	0.02	0.02



Method Summary

Report No.: 21-33082, issue number 1

Parameter	Codes	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	M	Air dried sample	13/04/2021	172	Ion Chromatography

Report Information

Report No.: 21-33082, issue number 1

Key

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

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



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: 21-32885

Issue: 1

Date of Issue: 06/04/2021

Contact: Sam Parry

Customer Details: CC Geotechnical Ltd
Unit 1 & 2 Deltic Place
Deltic Way
Liverpool
Merseyside L33 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: 

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.: 21-32885, issue number 1

Elab No.	Client's Ref.	Date Sampled	Date Scheduled	Description	Deviations
231869	TP01 0.50	23/03/2021	29/03/2021	Silty clayey loam	

Results Summary

2683

Report No.: 21-32885, issue number 1

ELAB Reference	231869
Customer Reference	
Sample ID	
Sample Type	SOIL
Sample Location	TP01
Sample Depth (m)	0.50
Sampling Date	23/03/2021

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	M	mg/kg	1	8.3
Cadmium	M	mg/kg	0.5	< 0.5
Chromium	M	mg/kg	5	40.2
Copper	M	mg/kg	5	15.7
Lead	M	mg/kg	5	15.0
Mercury	M	mg/kg	0.5	< 0.5
Nickel	M	mg/kg	5	39.6
Selenium	M	mg/kg	1	< 1.0
Zinc	M	mg/kg	5	43.6
Inorganics				
Total Sulphide	N	mg/kg	2	< 2
Acid Soluble Sulphate (SO ₄)	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	M	pH units	0.1	8.2
Polyaromatic hydrocarbons				
Naphthalene	M	mg/kg	0.1	< 0.1
Acenaphthylene	M	mg/kg	0.1	< 0.1
Acenaphthene	M	mg/kg	0.1	< 0.1
Fluorene	M	mg/kg	0.1	< 0.1
Phenanthrene	M	mg/kg	0.1	< 0.1
Anthracene	M	mg/kg	0.1	< 0.1
Fluoranthene	M	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)	M	mg/kg	0.4	< 0.4



Results Summary

2683

Report No.: 21-32885, issue number 1

ELAB Reference	231869
Customer Reference	
Sample ID	
Sample Type	SOIL
Sample Location	TP01
Sample Depth (m)	0.50
Sampling 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



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.: 21-32885, 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
231869	0.50	TP01	Brown soil, stones	No asbestos detected	n/t	n/t	n/t	n/t

Method Summary

Report No.: 21-32885, issue number 1

Parameter	Codes	Analysis Undertaken On	Date Tested	Method Number	Technique
Soil					
Sulphide	N	As submitted sample	30/03/2021	109	Colorimetry
pH	M	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	31/03/2021	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.: 21-32885, issue number 1

Key

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

Deviation Codes

- | | |
|---|--|
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| 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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Windmill Road
Ponswood Industrial Estate
St Leonards on Sea
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cs@elab-uk.co.uk
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THE ENVIRONMENTAL LABORATORY LTD

Analytical Report Number: 21-33084

Issue: 1

Date of Issue: 15/04/2021

Contact: Sam Parry

Customer Details: CC Geotechnical Ltd
Unit 1 & 2 Deltic Place
Deltic Way
Liverpool
Merseyside L33 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:

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.: 21-33084, issue number 1

Elab No.	Client's Ref.	Date Sampled	Date Scheduled	Description	Deviations
232850	TP02 1.00	23/03/2021	08/04/2021	Silty loam	



Results Summary

2683

Report No.: 21-33084, issue number 1

ELAB Reference	232850
Customer Reference	
Sample ID	
Sample Type	BULK
Sample Location	TP02
Sample Depth (m)	1.00
Sampling Date	23/03/2021

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	M	g/l	0.02	< 0.02
Inorganics				
Acid Soluble Sulphate (SO ₄)	U	%	0.02	< 0.02



Method Summary

Report No.: 21-33084, issue number 1

Parameter	Codes	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	M	Air dried sample	13/04/2021	172	Ion Chromatography

Report Information

Report No.: 21-33084, issue number 1

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THE ENVIRONMENTAL LABORATORY LTD

Analytical Report Number: 21-32886

Issue: 1

Date of Issue: 06/04/2021

Contact: Sam Parry

Customer Details: CC Geotechnical Ltd
Unit 1 & 2 Deltic Place
Deltic Way
Liverpool
Merseyside L33 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: 

Mike Varley, Technical Manager

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Sample Summary

Report No.: 21-32886, issue number 1

Elab No.	Client's Ref.	Date Sampled	Date Scheduled	Description	Deviations
231870	TP02 1.50	23/03/2021	29/03/2021	Sandy silty loam	

Results Summary

2683

Report No.: 21-32886, issue number 1

ELAB Reference	231870
Customer Reference	
Sample ID	
Sample Type	SOIL
Sample Location	TP02
Sample Depth (m)	1.50
Sampling Date	23/03/2021

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	M	mg/kg	1	10.9
Cadmium	M	mg/kg	0.5	< 0.5
Chromium	M	mg/kg	5	37.0
Copper	M	mg/kg	5	21.2
Lead	M	mg/kg	5	12.8
Mercury	M	mg/kg	0.5	< 0.5
Nickel	M	mg/kg	5	40.4
Selenium	M	mg/kg	1	< 1.0
Zinc	M	mg/kg	5	52.1
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	0.0017
pH	M	pH units	0.1	8.1
Polyaromatic hydrocarbons				
Naphthalene	M	mg/kg	0.1	< 0.1
Acenaphthylene	M	mg/kg	0.1	< 0.1
Acenaphthene	M	mg/kg	0.1	< 0.1
Fluorene	M	mg/kg	0.1	< 0.1
Phenanthrene	M	mg/kg	0.1	< 0.1
Anthracene	M	mg/kg	0.1	< 0.1
Fluoranthene	M	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)	M	mg/kg	0.4	< 0.4



Results Summary

2683

Report No.: 21-32886, issue number 1

ELAB Reference	231870
Customer Reference	
Sample ID	
Sample Type	SOIL
Sample Location	TP02
Sample Depth (m)	1.50
Sampling 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.: 21-32886, issue number 1

Asbestos Results

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Elab No	Depth (m)	Clients Reference	Description of Sample Matrix #	Asbestos	Gravimetric Analysis Total	Gravimetric Analysis by ACM Type	Free Fibre Analysis	Total Asbestos
231870	1.50	TP02	Brown soil	No asbestos detected	n/t	n/t	n/t	n/t

Method Summary

Report No.: 21-32886, issue number 1

Parameter	Codes	Analysis Undertaken On	Date Tested	Method Number	Technique
Soil					
Sulphide	N	As submitted sample	30/03/2021	109	Colorimetry
pH	M	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.: 21-32886, issue number 1

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Sample Retention and Disposal

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THE ENVIRONMENTAL LABORATORY LTD

Analytical Report Number: 21-32895

Issue: 1

Date of Issue: 06/04/2021

Contact: Sam Parry

Customer Details: CC Geotechnical Ltd
Unit 1 & 2 Deltic Place
Deltic Way
Liverpool
Merseyside L33 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:

Mike Varley, Technical Manager

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Sample Summary

Report No.: 21-32895, issue number 1

Elab No.	Client's Ref.	Date Sampled	Date Scheduled	Description	Deviations
231893	TP03 Natural 0.40	23/03/2021	29/03/2021	Silty loam	

Results Summary

Report No.: 21-32895, issue number 1

ELAB Reference	231893
Customer Reference	Natural
Sample ID	
Sample Type	SOIL
Sample Location	TP03
Sample Depth (m)	0.40
Sampling Date	23/03/2021

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	M	mg/kg	1	10.7
Cadmium	M	mg/kg	0.5	< 0.5
Chromium	M	mg/kg	5	42.1
Copper	M	mg/kg	5	17.1
Lead	M	mg/kg	5	14.6
Mercury	M	mg/kg	0.5	< 0.5
Nickel	M	mg/kg	5	35.4
Selenium	M	mg/kg	1	< 1.0
Zinc	M	mg/kg	5	52.8
Inorganics				
Total Sulphide	N	mg/kg	2	< 2
Acid Soluble Sulphate (SO ₄)	U	%	0.02	0.02
Water Soluble Boron	N	mg/kg	0.5	< 0.5
Miscellaneous				
Fraction of Organic Carbon	N		0.0001	0.0023
pH	M	pH units	0.1	7.7
Polyaromatic hydrocarbons				
Naphthalene	M	mg/kg	0.1	< 0.1
Acenaphthylene	M	mg/kg	0.1	< 0.1
Acenaphthene	M	mg/kg	0.1	< 0.1
Fluorene	M	mg/kg	0.1	< 0.1
Phenanthrene	M	mg/kg	0.1	< 0.1
Anthracene	M	mg/kg	0.1	< 0.1
Fluoranthene	M	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)	M	mg/kg	0.4	< 0.4



Results Summary

2683

Report No.: 21-32895, issue number 1

ELAB Reference	231893
Customer Reference	Natural
Sample ID	
Sample Type	SOIL
Sample Location	TP03
Sample Depth (m)	0.40
Sampling 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
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>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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Elab No	Depth (m)	Clients Reference	Description of Sample Matrix #	Asbestos	Gravimetric Analysis Total	Gravimetric Analysis by ACM Type	Free Fibre Analysis	Total Asbestos
231893	0.40	TP03 Natural	Brown Soil	No asbestos detected	n/t	n/t	n/t	n/t

Method Summary

Report No.: 21-32895, issue number 1

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Sulphide	N	As submitted sample	30/03/2021	109	Colorimetry
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Low range Aliphatic hydrocarbons soil	N	As submitted sample	31/03/2021	181	GC-MS
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Aqua regia extractable metals	M	Air dried sample	30/03/2021	300	ICPMS

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

THE ENVIRONMENTAL LABORATORY LTD

Analytical Report Number: 21-33086

Issue: 1

Date of Issue: 15/04/2021

Contact: Sam Parry

Customer Details: CC Geotechnical Ltd
Unit 1 & 2 Deltic Place
Deltic Way
Liverpool
Merseyside L33 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:

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.: 21-33086, issue number 1

Elab No.	Client's Ref.	Date Sampled	Date Scheduled	Description	Deviations
232855	TP04 0.60	23/03/2021	08/04/2021	Silty loam	



Results Summary

2683

Report No.: 21-33086, issue number 1

ELAB Reference	232855
Customer Reference	
Sample ID	
Sample Type	BULK
Sample Location	TP04
Sample Depth (m)	0.60
Sampling Date	23/03/2021

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	M	g/l	0.02	< 0.02
Inorganics				
Acid Soluble Sulphate (SO ₄)	U	%	0.02	< 0.02



Method Summary

Report No.: 21-33086, issue number 1

Parameter	Codes	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	M	Air dried sample	13/04/2021	172	Ion Chromatography

Report Information

Report No.: 21-33086, issue number 1

Key

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

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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Quotation No: Q17-00806

Order No: Not Supplied

Customer Reference: CCG-C-21-12093

Date Received: 08/04/2021

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Approved by:

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Sample Summary

Report No.: 21-33087, issue number 1

Elab No.	Client's Ref.	Date Sampled	Date Scheduled	Description	Deviations
232856	TP05 0.50	24/03/2021	08/04/2021	Silty loam	



Results Summary

2683

Report No.: 21-33087, issue number 1

ELAB Reference	232856
Customer Reference	
Sample ID	
Sample Type	BULK
Sample Location	TP05
Sample Depth (m)	0.50
Sampling Date	24/03/2021

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	M	g/l	0.02	< 0.02
Inorganics				
Acid Soluble Sulphate (SO ₄)	U	%	0.02	0.02



Method Summary

Report No.: 21-33087, issue number 1

Parameter	Codes	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	M	Air dried sample	13/04/2021	172	Ion Chromatography

Report Information

Report No.: 21-33087, issue number 1

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THE ENVIRONMENTAL LABORATORY LTD

Analytical Report Number: 21-33088

Issue: 1

Date of Issue: 15/04/2021

Contact: Sam Parry

Customer Details: CC Geotechnical Ltd
Unit 1 & 2 Deltic Place
Deltic Way
Liverpool
Merseyside L33 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:

Mike Varley, Technical Manager

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Sample Summary

Report No.: 21-33088, issue number 1

Elab No.	Client's Ref.	Date Sampled	Date Scheduled	Description	Deviations
232857	TP06 1.00	24/03/2021	08/04/2021	Silty loam	



Results Summary

2683

Report No.: 21-33088, issue number 1

ELAB Reference	232857
Customer Reference	
Sample ID	
Sample Type	DISTURBED
Sample Location	TP06
Sample Depth (m)	1.00
Sampling Date	24/03/2021

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	M	g/l	0.02	< 0.02
Inorganics				
Acid Soluble Sulphate (SO ₄)	U	%	0.02	< 0.02



Method Summary

Report No.: 21-33088, issue number 1

Parameter	Codes	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	M	Air dried sample	13/04/2021	172	Ion Chromatography

Report Information

Report No.: 21-33088, issue number 1

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Windmill Road
Ponswood Industrial Estate
St Leonards on Sea
East Sussex
TN38 9BY
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cs@elab-uk.co.uk
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THE ENVIRONMENTAL LABORATORY LTD

Analytical Report Number: 21-32897

Issue: 1

Date of Issue: 06/04/2021

Contact: Sam Parry

Customer Details: CC Geotechnical Ltd
Unit 1 & 2 Deltic Place
Deltic Way
Liverpool
Merseyside L33 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:

Mike Varley, Technical Manager

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Sample Summary

Report No.: 21-32897, issue number 1

Elab No.	Client's Ref.	Date Sampled	Date Scheduled	Description	Deviations
231900	TP06 Natural 0.25	23/03/2021	29/03/2021	Silty loam	

Results Summary

2683

Report No.: 21-32897, issue number 1

ELAB Reference	231900
Customer Reference	Natural
Sample ID	
Sample Type	SOIL
Sample Location	TP06
Sample Depth (m)	0.25
Sampling Date	23/03/2021

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	M	mg/kg	1	12.1
Cadmium	M	mg/kg	0.5	< 0.5
Chromium	M	mg/kg	5	27.8
Copper	M	mg/kg	5	28.9
Lead	M	mg/kg	5	41.6
Mercury	M	mg/kg	0.5	< 0.5
Nickel	M	mg/kg	5	21.1
Selenium	M	mg/kg	1	< 1.0
Zinc	M	mg/kg	5	72.6
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	0.0271
pH	M	pH units	0.1	6.3
Polyaromatic hydrocarbons				
Naphthalene	M	mg/kg	0.1	< 0.1
Acenaphthylene	M	mg/kg	0.1	< 0.1
Acenaphthene	M	mg/kg	0.1	< 0.1
Fluorene	M	mg/kg	0.1	< 0.1
Phenanthrene	M	mg/kg	0.1	< 0.1
Anthracene	M	mg/kg	0.1	< 0.1
Fluoranthene	M	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)	M	mg/kg	0.4	0.5



Results Summary

2683

Report No.: 21-32897, issue number 1

ELAB Reference	231900
Customer Reference	Natural
Sample ID	
Sample Type	SOIL
Sample Location	TP06
Sample Depth (m)	0.25
Sampling 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



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.: 21-32897, 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
231900	0.25	TP06 Natural	Brown Soil,Root	No asbestos detected	n/t	n/t	n/t	n/t

Method Summary

Report No.: 21-32897, issue number 1

Parameter	Codes	Analysis Undertaken On	Date Tested	Method Number	Technique
Soil					
Sulphide	N	As submitted sample	30/03/2021	109	Colorimetry
pH	M	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

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THE ENVIRONMENTAL LABORATORY LTD

Analytical Report Number: 21-32957

Issue: 1

Date of Issue: 06/04/2021

Contact: Sam Parry

Customer Details: CC Geotechnical Ltd
Unit 1 & 2 Deltic Place
Deltic Way
Liverpool
Merseyside L33 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:

Mike Varley, Technical Manager

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Sample Summary

Report No.: 21-32957, issue number 1

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



Results Summary

2683

Report No.: 21-32957, issue number 1

ELAB Reference	232156
Customer Reference	
Sample ID	
Sample Type	SOIL
Sample Location	WS04
Sample Depth (m)	1.00
Sampling 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	M	g/l	0.02	< 0.02
Inorganics				
Acid Soluble Sulphate (SO4)	U	%	0.02	< 0.02



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	M	Air dried sample	01/04/2021	172	Ion Chromatography

Report Information

Report No.: 21-32957, issue number 1

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Analytical Report Number: 21-33092

Issue: 1

Date of Issue: 15/04/2021

Contact: Sam Parry

Customer Details: CC Geotechnical Ltd
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Quotation No: Q17-00806

Order No: Not Supplied

Customer Reference: CCG-C-21-12093

Date Received: 08/04/2021

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Details: Cottam Parkway Station

Approved by: 

Mike Varley, Technical Manager

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Sample Summary

Report No.: 21-33092, issue number 1

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



Results Summary

2683

Report No.: 21-33092, issue number 1

ELAB Reference	232869
Customer Reference	
Sample ID	
Sample Type	SOIL
Sample Location	WS04
Sample Depth (m)	0.70
Sampling 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
Anions				
Water Soluble Sulphate	M	g/l	0.02	< 0.02
Inorganics				
Acid Soluble Sulphate (SO4)	U	%	0.02	< 0.02



Method Summary

Report No.: 21-33092, issue number 1

Parameter	Codes	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	M	Air dried sample	13/04/2021	172	Ion Chromatography

Report Information

Report No.: 21-33092, issue number 1

Key

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

Deviation Codes

-
- | | |
|---|--|
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| 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



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: 21-32952

Issue: 1

Date of Issue: 06/04/2021

Contact: Sam Parry

Customer Details: CC Geotechnical Ltd
Unit 1 & 2 Deltic Place
Deltic Way
Liverpool
Merseyside L33 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: 

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.: 21-32952, 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	

Results Summary

2683

Report No.: 21-32952, issue number 1

ELAB Reference	232151
Customer Reference	
Sample ID	
Sample Type	SOIL
Sample Location	WS04
Sample Depth (m)	0.70
Sampling 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	M	mg/kg	1	16.3
Cadmium	M	mg/kg	0.5	< 0.5
Chromium	M	mg/kg	5	19.1
Copper	M	mg/kg	5	9.5
Lead	M	mg/kg	5	12.3
Mercury	M	mg/kg	0.5	< 0.5
Nickel	M	mg/kg	5	20.6
Selenium	M	mg/kg	1	1.9
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	0.0066
pH	M	pH units	0.1	8.3
Polyaromatic hydrocarbons				
Naphthalene	M	mg/kg	0.1	< 0.1
Acenaphthylene	M	mg/kg	0.1	< 0.1
Acenaphthene	M	mg/kg	0.1	< 0.1
Fluorene	M	mg/kg	0.1	< 0.1
Phenanthrene	M	mg/kg	0.1	< 0.1
Anthracene	M	mg/kg	0.1	< 0.1
Fluoranthene	M	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)	M	mg/kg	0.4	< 0.4



Results Summary

2683

Report No.: 21-32952, issue number 1

ELAB Reference	232151
Customer Reference	
Sample ID	
Sample Type	SOIL
Sample Location	WS04
Sample Depth (m)	0.70
Sampling 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



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)	Clients Reference	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

Parameter	Codes	Analysis Undertaken On	Date Tested	Method Number	Technique
Soil					
Sulphide	N	As submitted sample	01/04/2021	109	Colorimetry
pH	M	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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LOD	<p>LOD refers to limit of detection, except in the case of pH soils and pH waters where it means limit of discrimination.</p> <p>Soil sample results are expressed on an air dried basis (dried at < 30°C), and are uncorrected for inert material removed.</p> <p>ELAB are unable to provide an interpretation or opinion on the content of this report.</p> <p>The results relate only to the sample received.</p> <p>PCB congener results may include any coeluting PCBs</p> <p>Uncertainty of measurement for the determinands tested are available upon request</p> <p>Unless otherwise stated, sample information has been provided by the client. This may affect the validity of the results.</p>

Deviation Codes

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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

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Charges may apply to extended sample storage



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cs@elab-uk.co.uk
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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
Merseyside L33 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:

Mike Varley, Technical Manager

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Sample Summary

Report No.: 21-32953, issue number 1

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



Results Summary

2683

Report No.: 21-32953, issue number 1

ELAB Reference	232152
Customer Reference	
Sample ID	
Sample Type	SOIL
Sample Location	WS05
Sample Depth (m)	0.20
Sampling 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	M	mg/kg	1	10.1
Cadmium	M	mg/kg	0.5	< 0.5
Chromium	M	mg/kg	5	27.8
Copper	M	mg/kg	5	53.2
Lead	M	mg/kg	5	57.4
Mercury	M	mg/kg	0.5	< 0.5
Nickel	M	mg/kg	5	21.4
Selenium	M	mg/kg	1	< 1.0
Zinc	M	mg/kg	5	108
Inorganics				
Total Sulphide	N	mg/kg	2	< 2
Acid Soluble Sulphate (SO ₄)	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
pH	M	pH units	0.1	5.8
Polyaromatic hydrocarbons				
Naphthalene	M	mg/kg	0.1	< 0.1
Acenaphthylene	M	mg/kg	0.1	< 0.1
Acenaphthene	M	mg/kg	0.1	< 0.1
Fluorene	M	mg/kg	0.1	< 0.1
Phenanthrene	M	mg/kg	0.1	< 0.1
Anthracene	M	mg/kg	0.1	< 0.1
Fluoranthene	M	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)	M	mg/kg	0.4	< 0.4



2683



Results Summary

Report No.: 21-32953, issue number 1

ELAB Reference	232152
Customer Reference	
Sample ID	
Sample Type	SOIL
Sample Location	WS05
Sample Depth (m)	0.20
Sampling 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



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.: 21-32953, 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
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

Parameter	Codes	Analysis Undertaken On	Date Tested	Method Number	Technique
Soil					
Sulphide	N	As submitted sample	01/04/2021	109	Colorimetry
pH	M	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	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.: 21-32953, issue number 1

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Sample Retention and Disposal

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Windmill Road
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St Leonards on Sea
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cs@elab-uk.co.uk
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THE ENVIRONMENTAL LABORATORY LTD

Analytical Report Number: 21-32958

Issue: 1

Date of Issue: 06/04/2021

Contact: Sam Parry

Customer Details: CC Geotechnical Ltd
Unit 1 & 2 Deltic Place
Deltic Way
Liverpool
Merseyside L33 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: 

Mike Varley, Technical Manager

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Sample Summary

Report No.: 21-32958, issue number 1

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



Results Summary

2683

Report No.: 21-32958, issue number 1

ELAB Reference	232157
Customer Reference	
Sample ID	
Sample Type	SOIL
Sample Location	WS06
Sample Depth (m)	1.00
Sampling 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	M	g/l	0.02	0.04
Inorganics				
Acid Soluble Sulphate (SO ₄)	U	%	0.02	0.02



Method Summary

Report No.: 21-32958, 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	M	Air dried sample	01/04/2021	172	Ion Chromatography

Report Information

Report No.: 21-32958, issue number 1

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I/S	Insufficient Sample
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<	means "less than"
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Sample Retention and Disposal

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2683



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cs@elab-uk.co.uk
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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
Merseyside L33 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:

Mike Varley, Technical Manager

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Sample Summary

Report No.: 21-32954, issue number 1

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



Results Summary

2683

Report No.: 21-32954, issue number 1

ELAB Reference	232153
Customer Reference	
Sample ID	
Sample Type	SOIL
Sample Location	WS06
Sample Depth (m)	1.00
Sampling Date	31/03/2021

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	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	M	mg/kg	5	34.6
Selenium	M	mg/kg	1	< 1.0
Zinc	M	mg/kg	5	54.6
Inorganics				
Total Sulphide	N	mg/kg	2	< 2
Acid Soluble Sulphate (SO ₄)	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	M	pH units	0.1	8.0
Polyaromatic hydrocarbons				
Naphthalene	M	mg/kg	0.1	< 0.1
Acenaphthylene	M	mg/kg	0.1	< 0.1
Acenaphthene	M	mg/kg	0.1	< 0.1
Fluorene	M	mg/kg	0.1	< 0.1
Phenanthrene	M	mg/kg	0.1	< 0.1
Anthracene	M	mg/kg	0.1	< 0.1
Fluoranthene	M	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)	M	mg/kg	0.4	< 0.4



Results Summary

2683

Report No.: 21-32954, issue number 1

ELAB Reference	232153
Customer Reference	
Sample ID	
Sample Type	SOIL
Sample Location	WS06
Sample Depth (m)	1.00
Sampling Date	31/03/2021

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	4.6
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.: 21-32954, 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 Analysis Total (%)	Gravimetric Analysis by ACM Type (%)	Free Fibre Analysis (%)	Total Asbestos (%)
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

Parameter	Codes	Analysis Undertaken On	Date Tested	Method Number	Technique
Soil					
Sulphide	N	As submitted sample	01/04/2021	109	Colorimetry
pH	M	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	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

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

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



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
Merseyside L33 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: 

Mike Varley, Technical Manager

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

This report may only be reproduced in full



Sample Summary

Report No.: 21-32899, issue number 1

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

Results Summary

2683

Report No.: 21-32899, issue number 1

ELAB Reference	231911
Customer Reference	Natural
Sample ID	
Sample Type	SOIL
Sample Location	WS07
Sample Depth (m)	0.20
Sampling Date	24/03/2021

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	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	M	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	M	pH units	0.1	6.6
Polyaromatic hydrocarbons				
Naphthalene	M	mg/kg	0.1	< 0.1
Acenaphthylene	M	mg/kg	0.1	< 0.1
Acenaphthene	M	mg/kg	0.1	< 0.1
Fluorene	M	mg/kg	0.1	< 0.1
Phenanthrene	M	mg/kg	0.1	< 0.1
Anthracene	M	mg/kg	0.1	< 0.1
Fluoranthene	M	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)	M	mg/kg	0.4	< 0.4



2683



Results Summary

Report No.: 21-32899, issue number 1

ELAB Reference	231911
Customer Reference	Natural
Sample ID	
Sample Type	SOIL
Sample Location	WS07
Sample Depth (m)	0.20
Sampling 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 Analysis Total (%)	Gravimetric Analysis by ACM Type (%)	Free Fibre Analysis (%)	Total Asbestos (%)
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

Parameter	Codes	Analysis Undertaken On	Date Tested	Method Number	Technique
Soil					
Sulphide	N	As submitted sample	30/03/2021	109	Colorimetry
pH	M	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

U	hold UKAS accreditation
M	hold MCERTS and UKAS accreditation
N	do not currently hold UKAS accreditation
^	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

-
- | | |
|---|--|
| 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



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: 21-32900

Issue: 1

Date of Issue: 06/04/2021

Contact: Sam Parry

Customer Details: CC Geotechnical Ltd
Unit 1 & 2 Deltic Place
Deltic Way
Liverpool
Merseyside L33 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: 

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	



Results Summary

2683

Report No.: 21-32900, issue number 1

ELAB Reference	231912
Customer Reference	Natural
Sample ID	
Sample Type	SOIL
Sample Location	WS08
Sample Depth (m)	0.10
Sampling Date	24/03/2021

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	M	mg/kg	1	11.2
Cadmium	M	mg/kg	0.5	< 0.5
Chromium	M	mg/kg	5	28.2
Copper	M	mg/kg	5	37.0
Lead	M	mg/kg	5	33.9
Mercury	M	mg/kg	0.5	< 0.5
Nickel	M	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 (SO ₄)	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	M	pH units	0.1	6.5
Polyaromatic hydrocarbons				
Naphthalene	M	mg/kg	0.1	< 0.1
Acenaphthylene	M	mg/kg	0.1	< 0.1
Acenaphthene	M	mg/kg	0.1	< 0.1
Fluorene	M	mg/kg	0.1	< 0.1
Phenanthrene	M	mg/kg	0.1	< 0.1
Anthracene	M	mg/kg	0.1	< 0.1
Fluoranthene	M	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)	M	mg/kg	0.4	0.5



Results Summary

2683

Report No.: 21-32900, issue number 1

ELAB Reference	231912
Customer Reference	Natural
Sample ID	
Sample Type	SOIL
Sample Location	WS08
Sample Depth (m)	0.10
Sampling 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

Parameter	Codes	Analysis Undertaken On	Date Tested	Method Number	Technique
Soil					
Sulphide	N	As submitted sample	30/03/2021	109	Colorimetry
pH	M	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.: 21-32900, issue number 1

Key

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M	hold MCERTS and UKAS accreditation
N	do not currently hold UKAS accreditation
^	MCERTS accreditation not applicable for sample matrix
*	UKAS 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	<p>LOD refers to limit of detection, except in the case of pH soils and pH waters where it means limit of discrimination.</p> <p>Soil sample results are expressed on an air dried basis (dried at < 30°C), and are uncorrected for inert material removed.</p> <p>ELAB are unable to provide an interpretation or opinion on the content of this report.</p> <p>The results relate only to the sample received.</p> <p>PCB congener results may include any coeluting PCBs</p> <p>Uncertainty of measurement for the determinands tested are available upon request</p> <p>Unless otherwise stated, sample information has been provided by the client. This may affect the validity of the results.</p>

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



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
Merseyside L33 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:

Mike Varley, Technical Manager

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Sample Summary

Report No.: 21-32904, issue number 1

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

Results Summary

2683

Report No.: 21-32904, issue number 1

ELAB Reference	231959
Customer Reference	Natural
Sample ID	
Sample Type	SOIL
Sample Location	WS12
Sample Depth (m)	0.20
Sampling Date	23/03/2021

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	M	mg/kg	1	13.0
Cadmium	M	mg/kg	0.5	< 0.5
Chromium	M	mg/kg	5	31.8
Copper	M	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	M	pH units	0.1	6.8
Polyaromatic hydrocarbons				
Naphthalene	M	mg/kg	0.1	< 0.1
Acenaphthylene	M	mg/kg	0.1	< 0.1
Acenaphthene	M	mg/kg	0.1	< 0.1
Fluorene	M	mg/kg	0.1	< 0.1
Phenanthrene	M	mg/kg	0.1	0.1
Anthracene	M	mg/kg	0.1	< 0.1
Fluoranthene	M	mg/kg	0.1	0.2
Pyrene	M	mg/kg	0.1	0.2
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)	M	mg/kg	0.4	0.7



Results Summary

2683

Report No.: 21-32904, issue number 1

ELAB Reference	231959
Customer Reference	Natural
Sample ID	
Sample Type	SOIL
Sample Location	WS12
Sample Depth (m)	0.20
Sampling 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



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.: 21-32904, 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)	Clients Reference	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

Parameter	Codes	Analysis Undertaken On	Date Tested	Method Number	Technique
Soil					
Sulphide	N	As submitted sample	30/03/2021	109	Colorimetry
pH	M	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.: 21-32904, issue number 1

Key

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

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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Ponswood Industrial Estate
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cs@elab-uk.co.uk
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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
Merseyside L33 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: 

Mike Varley, Technical Manager

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Sample Summary

Report No.: 21-32905, issue number 1

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



Results Summary

2683

Report No.: 21-32905, issue number 1

ELAB Reference	231960
Customer Reference	Natural
Sample ID	
Sample Type	SOIL
Sample Location	WS13
Sample Depth (m)	0.10
Sampling Date	23/03/2021

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	M	mg/kg	1	13.8
Cadmium	M	mg/kg	0.5	< 0.5
Chromium	M	mg/kg	5	25.0
Copper	M	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 (SO ₄)	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	M	pH units	0.1	5.9
Polyaromatic hydrocarbons				
Naphthalene	M	mg/kg	0.1	< 0.1
Acenaphthylene	M	mg/kg	0.1	< 0.1
Acenaphthene	M	mg/kg	0.1	< 0.1
Fluorene	M	mg/kg	0.1	< 0.1
Phenanthrene	M	mg/kg	0.1	< 0.1
Anthracene	M	mg/kg	0.1	< 0.1
Fluoranthene	M	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)	M	mg/kg	0.4	< 0.4



Results Summary

2683

Report No.: 21-32905, issue number 1

ELAB Reference	231960
Customer Reference	Natural
Sample ID	
Sample Type	SOIL
Sample Location	WS13
Sample Depth (m)	0.10
Sampling 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



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.: 21-32905, issue number 1

Asbestos Results

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Elab No	Depth (m)	Clients Reference	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

Parameter	Codes	Analysis Undertaken On	Date Tested	Method Number	Technique
Soil					
Sulphide	N	As submitted sample	30/03/2021	109	Colorimetry
pH	M	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	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

U	hold UKAS accreditation
M	hold MCERTS and UKAS accreditation
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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	<p>LOD refers to limit of detection, except in the case of pH soils and pH waters where it means limit of discrimination.</p> <p>Soil sample results are expressed on an air dried basis (dried at < 30°C), and are uncorrected for inert material removed.</p> <p>ELAB are unable to provide an interpretation or opinion on the content of this report.</p> <p>The results relate only to the sample received.</p> <p>PCB congener results may include any coeluting PCBs</p> <p>Uncertainty of measurement for the determinands tested are available upon request</p> <p>Unless otherwise stated, sample information has been provided by the client. This may affect the validity of the results.</p>

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

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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: 21-32907

Issue: 1

Date of Issue: 06/04/2021

Contact: Sam Parry

Customer Details: CC Geotechnical Ltd
Unit 1 & 2 Deltic Place
Deltic Way
Liverpool
Merseyside L33 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:

Mike Varley, Technical Manager

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Sample Summary

Report No.: 21-32907, issue number 1

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



Results Summary

2683

Report No.: 21-32907, issue number 1

ELAB Reference	231976
Customer Reference	Natural
Sample ID	
Sample Type	SOIL
Sample Location	WS16
Sample Depth (m)	0.60
Sampling Date	23/03/2021

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	M	mg/kg	1	11.9
Cadmium	M	mg/kg	0.5	< 0.5
Chromium	M	mg/kg	5	40.6
Copper	M	mg/kg	5	23.0
Lead	M	mg/kg	5	15.5
Mercury	M	mg/kg	0.5	< 0.5
Nickel	M	mg/kg	5	45.3
Selenium	M	mg/kg	1	< 1.0
Zinc	M	mg/kg	5	54.5
Inorganics				
Total Sulphide	N	mg/kg	2	< 2
Acid Soluble Sulphate (SO ₄)	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	M	pH units	0.1	6.9
Polyaromatic hydrocarbons				
Naphthalene	M	mg/kg	0.1	< 0.1
Acenaphthylene	M	mg/kg	0.1	< 0.1
Acenaphthene	M	mg/kg	0.1	< 0.1
Fluorene	M	mg/kg	0.1	< 0.1
Phenanthrene	M	mg/kg	0.1	< 0.1
Anthracene	M	mg/kg	0.1	< 0.1
Fluoranthene	M	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)	M	mg/kg	0.4	< 0.4



Results Summary

2683

Report No.: 21-32907, issue number 1

ELAB Reference	231976
Customer Reference	Natural
Sample ID	
Sample Type	SOIL
Sample Location	WS16
Sample Depth (m)	0.60
Sampling 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	1.1
>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

Report No.: 21-32907, issue number 1

Asbestos Results

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Elab No	Depth (m)	Clients Reference	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

Method Summary

Report No.: 21-32907, issue number 1

Parameter	Codes	Analysis Undertaken On	Date Tested	Method Number	Technique
Soil					
Sulphide	N	As submitted sample	30/03/2021	109	Colorimetry
pH	M	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	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.: 21-32907, issue number 1

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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	<p>LOD refers to limit of detection, except in the case of pH soils and pH waters where it means limit of discrimination.</p> <p>Soil sample results are expressed on an air dried basis (dried at < 30°C), and are uncorrected for inert material removed.</p> <p>ELAB are unable to provide an interpretation or opinion on the content of this report.</p> <p>The results relate only to the sample received.</p> <p>PCB congener results may include any coeluting PCBs</p> <p>Uncertainty of measurement for the determinands tested are available upon request</p> <p>Unless otherwise stated, sample information has been provided by the client. This may affect the validity of the results.</p>

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



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: 21-32909

Issue: 1

Date of Issue: 06/04/2021

Contact: Sam Parry

Customer Details: CC Geotechnical Ltd
Unit 1 & 2 Deltic Place
Deltic Way
Liverpool
Merseyside L33 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:

Mike Varley, Technical Manager

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

This report may only be reproduced in full



Sample Summary

Report No.: 21-32909, issue number 1

Elab No.	Client's Ref.	Date Sampled	Date Scheduled	Description	Deviations
231981	WS18 Natural 0.20	23/03/2021	29/03/2021	Silty loam	

Results Summary

Report No.: 21-32909, issue number 1

ELAB Reference	231981
Customer Reference	Natural
Sample ID	
Sample Type	SOIL
Sample Location	WS18
Sample Depth (m)	0.20
Sampling Date	23/03/2021

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	M	mg/kg	1	8.8
Cadmium	M	mg/kg	0.5	< 0.5
Chromium	M	mg/kg	5	27.4
Copper	M	mg/kg	5	20.9
Lead	M	mg/kg	5	27.5
Mercury	M	mg/kg	0.5	< 0.5
Nickel	M	mg/kg	5	23.0
Selenium	M	mg/kg	1	< 1.0
Zinc	M	mg/kg	5	40.3
Inorganics				
Total Sulphide	N	mg/kg	2	< 2
Acid Soluble Sulphate (SO ₄)	U	%	0.02	0.03
Water Soluble Boron	N	mg/kg	0.5	< 0.5
Miscellaneous				
Fraction of Organic Carbon	N		0.0001	0.0117
pH	M	pH units	0.1	6.5
Polyaromatic hydrocarbons				
Naphthalene	M	mg/kg	0.1	< 0.1
Acenaphthylene	M	mg/kg	0.1	< 0.1
Acenaphthene	M	mg/kg	0.1	< 0.1
Fluorene	M	mg/kg	0.1	< 0.1
Phenanthrene	M	mg/kg	0.1	< 0.1
Anthracene	M	mg/kg	0.1	< 0.1
Fluoranthene	M	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)	M	mg/kg	0.4	< 0.4



Results Summary

2683

Report No.: 21-32909, issue number 1

ELAB Reference	231981
Customer Reference	Natural
Sample ID	
Sample Type	SOIL
Sample Location	WS18
Sample Depth (m)	0.20
Sampling 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	1.3
>C12-C16 Aliphatic	N	mg/kg	1	2.1
>C16-C21 Aliphatic	N	mg/kg	1	1.4
>C21-C35 Aliphatic	N	mg/kg	1	3.1
>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	7.9
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.: 21-32909, 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
231981	0.20	WS18 Natural	Brown Soil,Stones	No asbestos detected	n/t	n/t	n/t	n/t

Method Summary

Report No.: 21-32909, issue number 1

Parameter	Codes	Analysis Undertaken On	Date Tested	Method Number	Technique
Soil					
Sulphide	N	As submitted sample	30/03/2021	109	Colorimetry
pH	M	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	01/04/2021	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.: 21-32909, issue number 1

Key

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

Deviation Codes

-
- | | |
|---|--|
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| 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

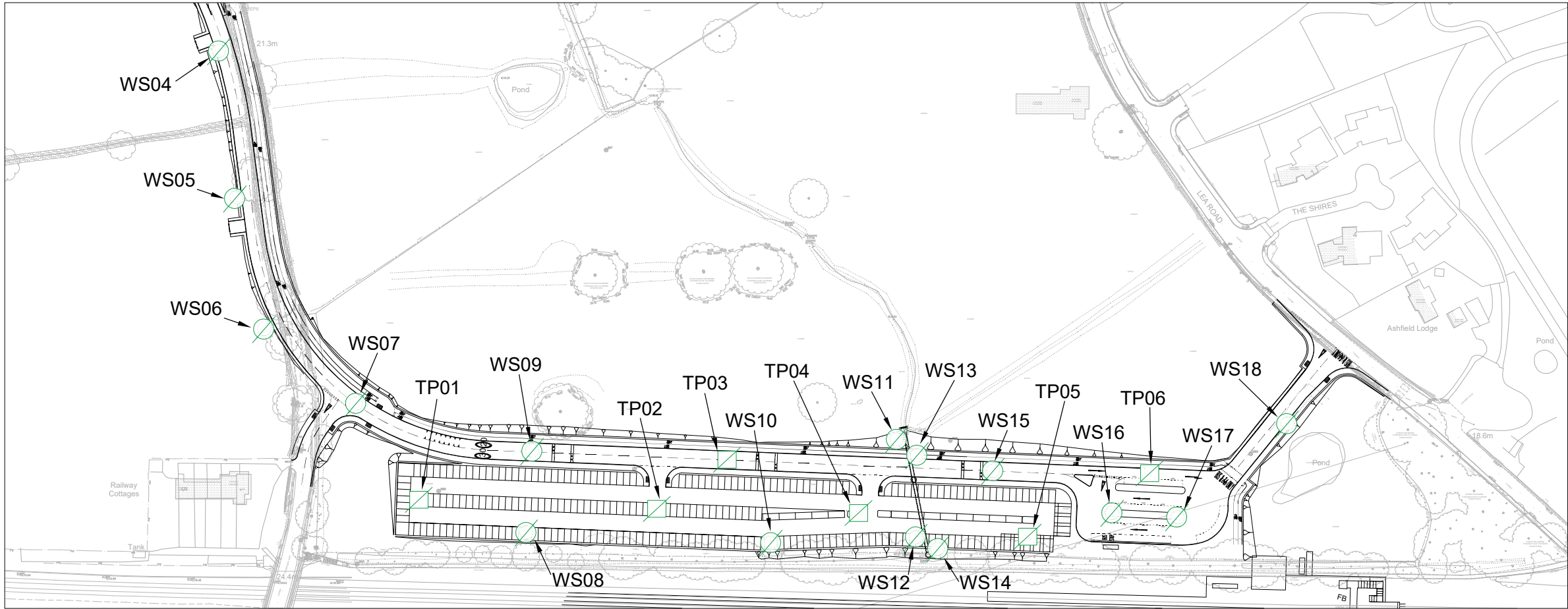
All soil samples will be retained for a period of one month

All water samples will be retained for 7 days following the date of the test report

Charges may apply to extended sample storage

Based upon the Ordnance Survey mapping with the permission of the Controller of Her Majesty's Stationary Office Crown Copyright. Unauthorised reproduction infringes Crown Copyright and may lead to prosecution or civil proceedings.

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Notes:

Only selected boreholes shown on cross section for clarity. For full details see: Ground Investigation Report (GIR) Cottam Parkway: Access Road and Car Park. Geotechnical Report No. CLM07b-LCC-RP-600-0001.

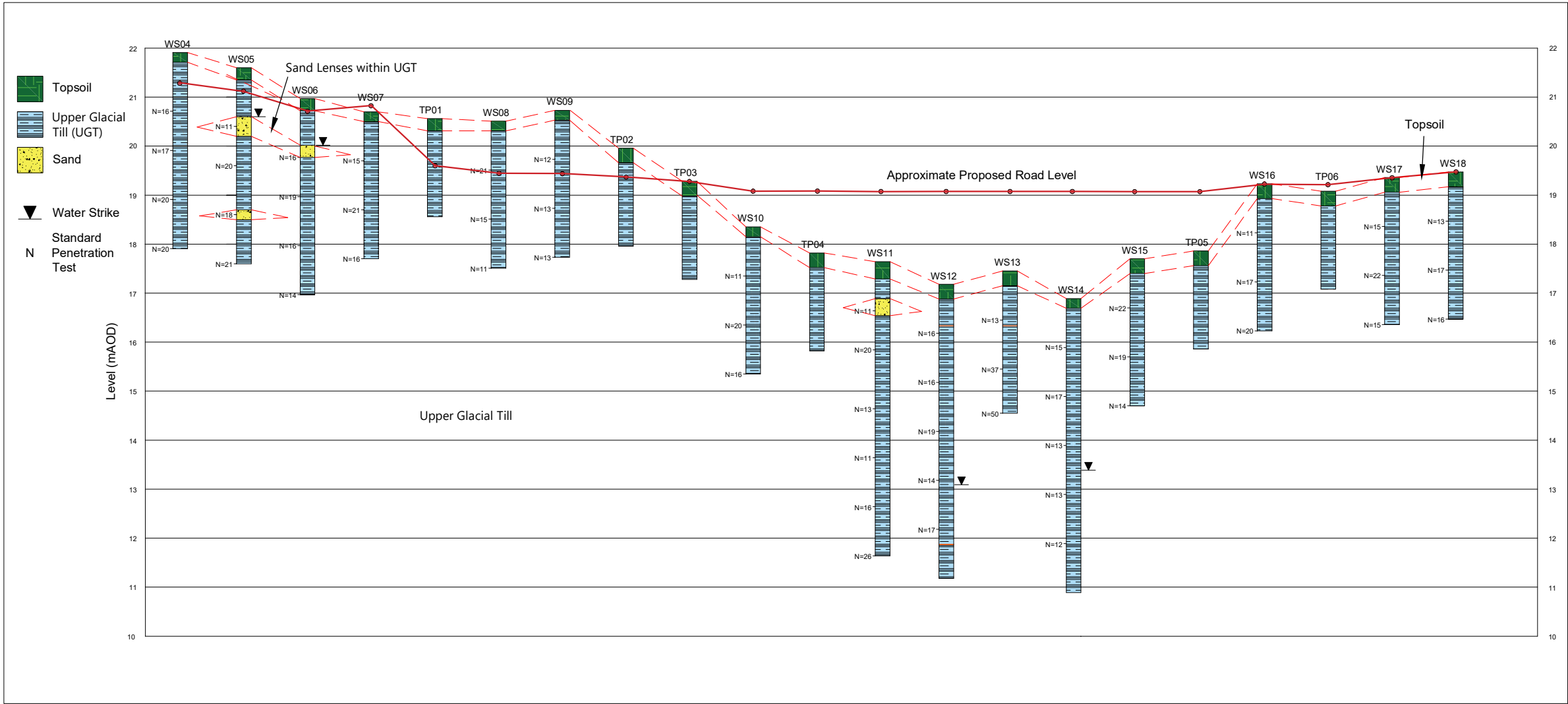
All levels and chainages are in metres unless noted otherwise.

Highway alignment taken from drawing CLM07-LCC-DR-0100-1006 GENERAL ARRANGEMENT REV B.

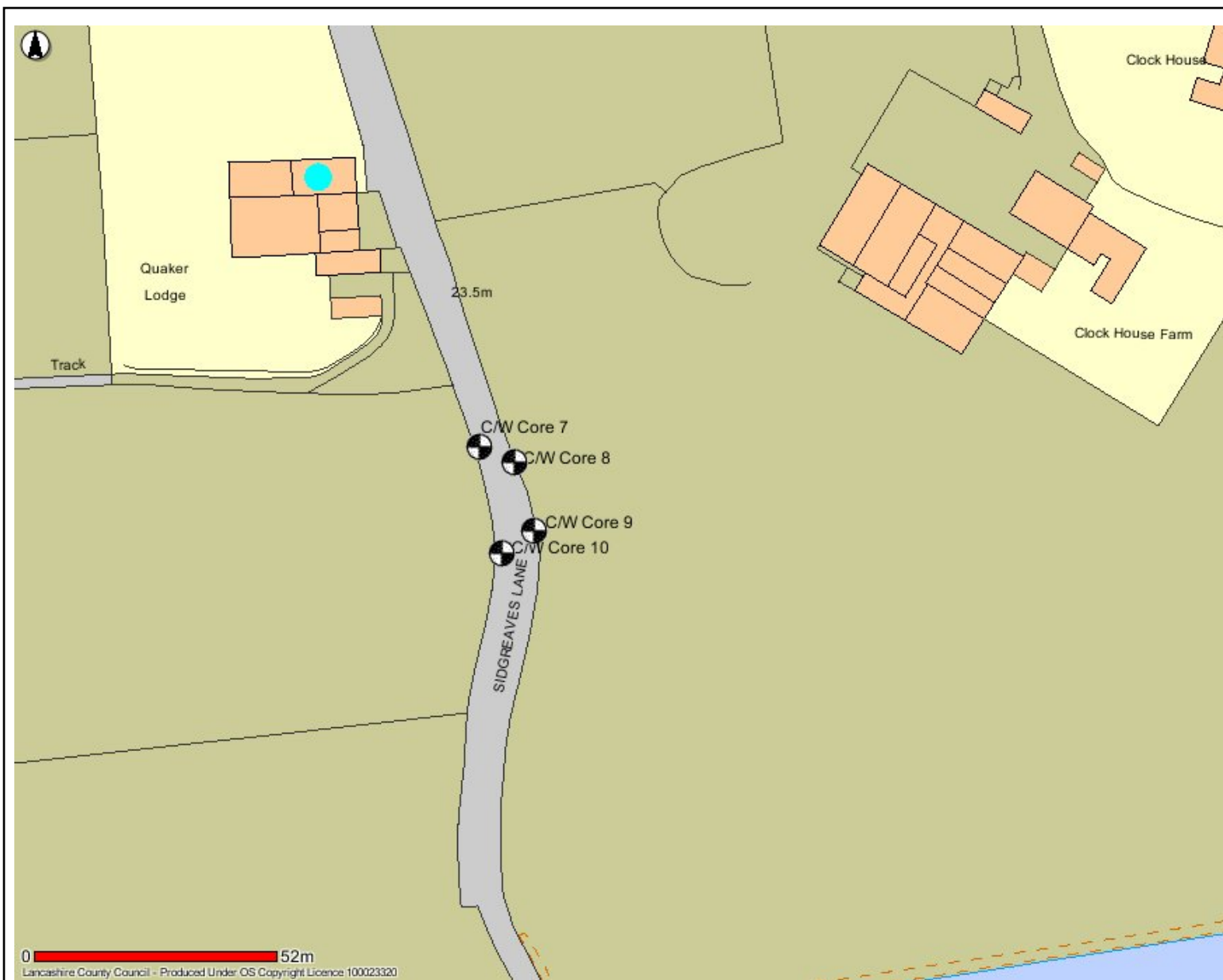
Existing topography based upon CLM07-LCC-XR-0000-0004 - TOPO.

Borehole plan scale - 1:850 @A1.

Cross section scale - H 1:900, V 1:50 @A1. Horizontal scale varies with distances between boreholes



No.	DATE	AMENDMENT DETAILS	CHECKED BY	DRAWN BY
REVISIONS				
<div>Lancashire County Council</div> <div></div>		Design and Construction		
PROJECT TITLE		Cottam Parkway Station		
DRAWING TITLE		Cottam Parkway Station Road and Car Park Ground Model		
DRAWN BY		PROJECT No.		
LT		CLM07		
CHECKED BY		DRAWING No.		
JS		CLM07-LCC-DR-600-0002		
DATE		SHEET No.		
22/12/21		1 of 1		REVISION
SCALE @ A1				A1
AS SHOWN				
CLIENT No.				
33822R1				



- Selected Features**
- Selected Features
- Districts**
- Other District/Unitary Authority
 - Lancashire Districts

Sidgreaves Lane C/W Cores pt2



Sidgreaves Lane/Lea Road core locations (E:348995, N:431940)

Carriageway Investigation and Recommendation Form				Road Name		Sidgreaves Lane	
				Core No	X3	Carriageway Construction	
General Information				Depth (mm)			
Scheme ID No:		PWD Extra Cores		Date:		18/02/2019	
Recommended By:				No of Cores:		2	
Road Name:		Sidgreaves Lane		Road No:			
Location From:				Location To:			
Direction(s):		Quaker Lodge & opp. The Beeches		40		TBC	
		Preston					
Recommendation							
Type of Work:		Course	Overlay				
<input type="checkbox"/> Surface Dressing	<input type="checkbox"/> Micro Asphalt	Surface		Total		40 mm	
<input type="checkbox"/> Retexturing	<input type="checkbox"/> Inlay			Core No		X5	
<input type="checkbox"/> Anti Skid	<input type="checkbox"/> 2 Layer Inlay	Binder		Depth (mm)		Carriageway Construction	
<input type="checkbox"/> Traffic Calming	<input type="checkbox"/> Retread						
<input type="checkbox"/> Machine Patching	<input type="checkbox"/> Overlay	Base		35		ACCSC with s/d 10 (H) g.a.	
<input type="checkbox"/> Hand Lay Patching	<input type="checkbox"/> 2 Layer Overlay			50		ACCSC with s/d 14 (L) appears slightly voided g.a.	
<input type="checkbox"/> Slurry Sealing	<input type="checkbox"/> Reconstruction	Total		25		ACCSC with s/d 14 (L) (potentially tar bound) g.a.	
<input type="checkbox"/> Mesh Track				25		ACCSC with s/d 10 (H) (potentially tar bound) g.a.	
Surface Course Material:				75		ACBC 32 (L) (potentially tar bound) p.a.	
Cemex:		Bardon:		Tarmac:		Hanson:	
<input type="checkbox"/> AC 6 dense surf	<input type="checkbox"/> Cl. 942 10	<input type="checkbox"/> Cl. 942 10	<input type="checkbox"/> Cl. 942 10	<input type="checkbox"/> Cl. 942 10			
<input type="checkbox"/> AC 10 close surf	<input type="checkbox"/> Cl. 942 14	<input type="checkbox"/> Cl. 942 14	<input type="checkbox"/> Cl. 942 14	<input type="checkbox"/> Cl. 942 14			
<input type="checkbox"/> AC 14 close surf	<input type="checkbox"/> Cl. 942 PMB 10	<input type="checkbox"/> Cl. 942 PMB 10	<input type="checkbox"/> Cl. 942 PMB 10	<input type="checkbox"/> Cl. 942 PMB 10			
<input type="checkbox"/> SMA 6 surf	<input type="checkbox"/> Cl. 942 PMB 14	<input type="checkbox"/> Cl. 942 PMB 14	<input type="checkbox"/> Cl. 942 PMB 14	<input type="checkbox"/> Cl. 942 PMB 14			
<input type="checkbox"/> SMA 10 surf		<input type="checkbox"/> Superflex 10	<input type="checkbox"/> Masterlayer 10	<input type="checkbox"/> Duraflex County 10			
<input type="checkbox"/> SMA 14 surf		<input type="checkbox"/> Superflex 14	<input type="checkbox"/> Masterlayer 14	<input type="checkbox"/> Duraflex County 14			
<input type="checkbox"/> SMA 20 surf		<input type="checkbox"/> Superflex 20	<input type="checkbox"/> Masterlayer 20	<input type="checkbox"/> Duraflex County 20			
<input type="checkbox"/> SMA Fuel Resistant 10		<input type="checkbox"/> Hixex 14					
<input type="checkbox"/> SMA Fuel Resistant 14							
<input type="checkbox"/> HRA 35/14F Surf 40/60							
<input type="checkbox"/> HRA 30/14F Surf 40/60							
<input type="checkbox"/> HRA 55/10F Surf 40/60 des							
<input type="checkbox"/> HRA 0/2 Surf 100/150 (Bridge Deck)							
Binder Course Material:				Base Course Material:			
<input type="checkbox"/> SMA 10 bin	<input type="checkbox"/> AC 14 dense bin	<input type="checkbox"/> AC 20 HDM bin	<input type="checkbox"/> AC 32 Dense Base				
<input type="checkbox"/> SMA 14 bin	<input type="checkbox"/> AC 20 dense bin	<input type="checkbox"/> AC 32 HDM bin	<input type="checkbox"/> AC 32 HDM Base				
<input type="checkbox"/> SMA 20 bin	<input type="checkbox"/> AC 32 dense bin						
Comments:				Total			
Date Cored: 18/02/2019				Core No			
Core Reference X3 Sidgreaves Lane (Quaker Lodge) (LIMS No. 18016414)				Depth (mm)		Carriageway Construction	
Core Reference X5 Sidgreaves Lane (opp. The Beeches) (LIMS No. 18016416)							
Signed: Ian Coulter				Total			
Date: 11/03/2019							



Waste Classification Report

HazWasteOnline™ classifies waste as either **hazardous** or **non-hazardous** based on its chemical composition, related legislation and the rules and data defined in the current UK or EU technical guidance (Appendix C) (note that HP 9 Infectious is not assessed). It is the responsibility of the classifier named below to:

- understand the origin of the waste
- select the correct List of Waste code(s)
- confirm that the list of determinands, results and sampling plan are fit for purpose
- select and justify the chosen metal species (Appendix B)
- correctly apply moisture correction and other available corrections
- add the meta data for their user-defined substances (Appendix A)
- check that the classification engine is suitable with respect to the national destination of the waste (Appendix C)



UDR6D-YWGDH-XGWEG

To aid the reviewer, the laboratory results, assumptions and justifications managed by the classifier are highlighted in **pale yellow**.

Job name

Cottam Parkway and car park

Description/Comments

Project

Site

Classified by

Name:
Jean Walmsley
Date:
12 Jul 2021 10:14 GMT
Telephone:
01772 583 564??

Company:
Lancashire Highways Services
Cuerden Way, Bamber Bridge, Preston, PR5
6BS

HazWasteOnline™ provides a two day, hazardous waste classification course that covers the use of the software and both basic and advanced waste classification techniques. Certification has to be renewed every 3 years.

HazWasteOnline™ Certification:

CERTIFIED

Course
Hazardous Waste Classification

Date
11 Mar 2020

Next 3 year Refresher due by Mar 2023

Job summary

#	Sample name	Depth [m]	Classification Result	Hazard properties	Page
1	TP01	0.5	Non Hazardous		2
2	TP02	1.5	Non Hazardous		4
3	TP03	0.4	Non Hazardous		6
4	TP06	0.25	Non Hazardous		8
5	WS04	0.7	Non Hazardous		10
6	WS05	0.2	Non Hazardous		12
7	WS06	1	Non Hazardous		14
8	WS07	0.2	Non Hazardous		16
9	WS08	0.1	Non Hazardous		18
10	WS12	0.2	Non Hazardous		20
11	WS13	0.1	Non Hazardous		22
12	WS16	0.6	Non Hazardous		24
13	WS18	0.2	Non Hazardous		26

Related documents

#	Name	Description
1	Standard Totals and HCs	waste stream template used to create this Job

Report

Created by: Jean Walmsley

Created date: 12 Jul 2021 10:14 GMT

Appendices	Page
Appendix A: Classifier defined and non CLP determinands	28
Appendix B: Rationale for selection of metal species	29
Appendix C: Version	29



Classification of sample: TP01

✔ **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:	LoW Code:
TP01	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.5 m	

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number					
1	arsenic { arsenic trioxide }							
	033-003-00-0	215-481-4	1327-53-3		8.3 mg/kg	1.32	10.959 mg/kg	0.0011 %
2	boron { boron tribromide/trichloride/trifluoride (combined) }							
			10294-33-4, 10294-34-5, 7637-07-2		<0.5 mg/kg	13.43	<6.715 mg/kg	<0.000672 %
3	cadmium { cadmium sulfide }							
	048-010-00-4	215-147-8	1306-23-6	1	<0.5 mg/kg	1.285	<0.643 mg/kg	<0.00005 %
4	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }							
		215-160-9	1308-38-9		40.2 mg/kg	1.462	58.755 mg/kg	0.00588 %
5	copper { dicopper oxide; copper (I) oxide }							
	029-002-00-X	215-270-7	1317-39-1		5 mg/kg	1.126	5.629 mg/kg	0.000563 %
6	lead { lead chromate }							
	082-004-00-2	231-846-0	7758-97-6	1	5 mg/kg	1.56	7.799 mg/kg	0.0005 %
7	mercury { mercury dichloride }							
	080-010-00-X	231-299-8	7487-94-7		0.5 mg/kg	1.353	0.677 mg/kg	0.0000677 %
8	nickel { nickel dihydroxide }							
	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]		5 mg/kg	1.579	7.897 mg/kg	0.00079 %
9	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }							
	034-002-00-8				5 mg/kg	1.405	7.025 mg/kg	0.000703 %
10	zinc { zinc chromate }							
	024-007-00-3	236-878-9	13530-65-9		1 mg/kg	2.774	2.774 mg/kg	0.000277 %
11	pH							
			PH		8.36 pH		8.36 pH	8.36 pH
12	TPH (C6 to C40) petroleum group							
			TPH		<1 mg/kg		<1 mg/kg	<0.0001 %
13	acenaphthene							
		201-469-6	83-32-9		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %
14	acenaphthylene							
		205-917-1	208-96-8		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %
15	anthracene							
		204-371-1	120-12-7		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %



#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
16	benzo[a]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-033-00-9	200-280-6	56-55-3							
17	benzo[a]pyrene; benzo[def]chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-032-00-3	200-028-5	50-32-8							
18	benzo[b]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-034-00-4	205-911-9	205-99-2							
19	benzo[ghi]perylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-883-8	191-24-2							
20	benzo[k]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-036-00-5	205-916-6	207-08-9							
21	chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-048-00-0	205-923-4	218-01-9							
22	dibenz[a,h]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
23	fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-912-4	206-44-0							
24	fluorene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-695-5	86-73-7							
25	indeno[123-cd]pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-893-2	193-39-5							
26	naphthalene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
27	phenanthrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-581-5	85-01-8							
28	pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		204-927-3	129-00-0							
Total:								0.0109 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
•	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification



Classification of sample: TP02

✔ **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:	LoW Code:
TP02	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
1.5 m	

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number					
1	arsenic { arsenic trioxide }							
	033-003-00-0	215-481-4	1327-53-3		10.9 mg/kg	1.32	14.392 mg/kg	0.00144 %
2	boron { boron tribromide/trichloride/trifluoride (combined) }							
			10294-33-4, 10294-34-5, 7637-07-2		<0.5 mg/kg	13.43	<6.715 mg/kg	<0.000672 %
3	cadmium { cadmium sulfide }							
	048-010-00-4	215-147-8	1306-23-6	1	<0.5 mg/kg	1.285	<0.643 mg/kg	<0.00005 %
4	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }							
		215-160-9	1308-38-9		37 mg/kg	1.462	54.078 mg/kg	0.00541 %
5	copper { dicopper oxide; copper (I) oxide }							
	029-002-00-X	215-270-7	1317-39-1		21.2 mg/kg	1.126	23.869 mg/kg	0.00239 %
6	lead { lead chromate }							
	082-004-00-2	231-846-0	7758-97-6	1	12.8 mg/kg	1.56	19.966 mg/kg	0.00128 %
7	mercury { mercury dichloride }							
	080-010-00-X	231-299-8	7487-94-7		<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %
8	nickel { nickel dihydroxide }							
	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]		40.4 mg/kg	1.579	63.812 mg/kg	0.00638 %
9	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }							
	034-002-00-8				<1 mg/kg	1.405	<1.405 mg/kg	<0.000141 %
10	zinc { zinc chromate }							
	024-007-00-3	236-878-9	13530-65-9		52.1 mg/kg	2.774	144.533 mg/kg	0.0145 %
11	pH							
			PH		8.1 pH		8.1 pH	8.1 pH
12	TPH (C6 to C40) petroleum group							
			TPH		<1 mg/kg		<1 mg/kg	<0.0001 %
13	acenaphthene							
		201-469-6	83-32-9		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %
14	acenaphthylene							
		205-917-1	208-96-8		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %
15	anthracene							
		204-371-1	120-12-7		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %



#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
16	benzo[a]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-033-00-9	200-280-6	56-55-3							
17	benzo[a]pyrene; benzo[def]chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-032-00-3	200-028-5	50-32-8							
18	benzo[b]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-034-00-4	205-911-9	205-99-2							
19	benzo[ghi]perylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-883-8	191-24-2							
20	benzo[k]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-036-00-5	205-916-6	207-08-9							
21	chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-048-00-0	205-923-4	218-01-9							
22	dibenz[a,h]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
23	fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-912-4	206-44-0							
24	fluorene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-695-5	86-73-7							
25	indeno[123-cd]pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-893-2	193-39-5							
26	naphthalene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
27	phenanthrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-581-5	85-01-8							
28	pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		204-927-3	129-00-0							
Total:								0.0325 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
•	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification



Classification of sample: TP03

✔ **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:	LoW Code:
TP03	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.4 m	

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3	10.7 mg/kg	1.32	14.127 mg/kg	0.00141 %			
2	boron { boron tribromide/trichloride/trifluoride (combined) }		10294-33-4, 10294-34-5, 7637-07-2		<0.5 mg/kg	13.43	<6.715 mg/kg	<0.000672 %			<LOD
3	cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	<0.5 mg/kg	1.285	<0.643 mg/kg	<0.00005 %			<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }	215-160-9	1308-38-9		42.1 mg/kg	1.462	61.531 mg/kg	0.00615 %			
5	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1	17.1 mg/kg	1.126	19.253 mg/kg	0.00193 %			
6	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	14.6 mg/kg	1.56	22.773 mg/kg	0.00146 %			
7	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7	<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %			<LOD
8	nickel { nickel dihydroxide }	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]	35.4 mg/kg	1.579	55.914 mg/kg	0.00559 %			
9	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8			<1 mg/kg	1.405	<1.405 mg/kg	<0.000141 %			<LOD
10	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9	52.8 mg/kg	2.774	146.475 mg/kg	0.0146 %			
11	pH		PH		7.7 pH		7.7 pH	7.7 pH			
12	TPH (C6 to C40) petroleum group		TPH		<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
13	acenaphthene	201-469-6	83-32-9		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
14	acenaphthylene	205-917-1	208-96-8		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
15	anthracene	204-371-1	120-12-7		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD



#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
16	benzo[a]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-033-00-9	200-280-6	56-55-3							
17	benzo[a]pyrene; benzo[def]chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-032-00-3	200-028-5	50-32-8							
18	benzo[b]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-034-00-4	205-911-9	205-99-2							
19	benzo[ghi]perylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-883-8	191-24-2							
20	benzo[k]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-036-00-5	205-916-6	207-08-9							
21	chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-048-00-0	205-923-4	218-01-9							
22	dibenz[a,h]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
23	fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-912-4	206-44-0							
24	fluorene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-695-5	86-73-7							
25	indeno[123-cd]pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-893-2	193-39-5							
26	naphthalene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
27	phenanthrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-581-5	85-01-8							
28	pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		204-927-3	129-00-0							
Total:								0.0324 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
•	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification



Classification of sample: TP06

✔ **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:	LoW Code:
TP06	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.25 m	

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3	12.1 mg/kg	1.32	15.976 mg/kg	0.0016 %			
2	boron { boron tribromide/trichloride/trifluoride (combined) }		10294-33-4, 10294-34-5, 7637-07-2		<0.5 mg/kg	13.43	<6.715 mg/kg	<0.000672 %			<LOD
3	cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	<0.5 mg/kg	1.285	<0.643 mg/kg	<0.00005 %			<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }	215-160-9	1308-38-9		27.8 mg/kg	1.462	40.631 mg/kg	0.00406 %			
5	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1	28.9 mg/kg	1.126	32.538 mg/kg	0.00325 %			
6	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	41.6 mg/kg	1.56	64.888 mg/kg	0.00416 %			
7	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7	<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %			<LOD
8	nickel { nickel dihydroxide }	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]	21.1 mg/kg	1.579	33.327 mg/kg	0.00333 %			
9	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8			<1 mg/kg	1.405	<1.405 mg/kg	<0.000141 %			<LOD
10	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9	72.6 mg/kg	2.774	201.403 mg/kg	0.0201 %			
11	pH		PH		6.3 pH		6.3 pH	6.3 pH			
12	TPH (C6 to C40) petroleum group		TPH		<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
13	acenaphthene	201-469-6	83-32-9		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
14	acenaphthylene	205-917-1	208-96-8		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
15	anthracene	204-371-1	120-12-7		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD



#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
16	benzo[a]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
	601-033-00-9	200-280-6	56-55-3								
17	benzo[a]pyrene; benzo[def]chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
	601-032-00-3	200-028-5	50-32-8								
18	benzo[b]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
	601-034-00-4	205-911-9	205-99-2								
19	benzo[ghi]perylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
		205-883-8	191-24-2								
20	benzo[k]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
	601-036-00-5	205-916-6	207-08-9								
21	chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
	601-048-00-0	205-923-4	218-01-9								
22	dibenz[a,h]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
	601-041-00-2	200-181-8	53-70-3								
23	fluoranthene				0.1 mg/kg		0.1 mg/kg	0.00001 %			
		205-912-4	206-44-0								
24	fluorene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
		201-695-5	86-73-7								
25	indeno[123-cd]pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
		205-893-2	193-39-5								
26	naphthalene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
	601-052-00-2	202-049-5	91-20-3								
27	phenanthrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
		201-581-5	85-01-8								
28	pyrene				0.1 mg/kg		0.1 mg/kg	0.00001 %			
		204-927-3	129-00-0								
Total:									0.0377 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
•	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification



Classification of sample: WS04

✔ **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:	LoW Code:
WS04	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.7 m	

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3	16.3	mg/kg	1.32	21.521	mg/kg	0.00215 %		
2	boron { boron tribromide/trichloride/trifluoride (combined) }		10294-33-4, 10294-34-5, 7637-07-2		<0.5	mg/kg	13.43	<6.715	mg/kg	<0.000672 %		<LOD
3	cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	<0.5	mg/kg	1.285	<0.643	mg/kg	<0.00005 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }	215-160-9	1308-38-9		19.1	mg/kg	1.462	27.916	mg/kg	0.00279 %		
5	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1	9.5	mg/kg	1.126	10.696	mg/kg	0.00107 %		
6	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	12.3	mg/kg	1.56	19.186	mg/kg	0.00123 %		
7	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7	<0.5	mg/kg	1.353	<0.677	mg/kg	<0.0000677 %		<LOD
8	nickel { nickel dihydroxide }	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]	20.6	mg/kg	1.579	32.538	mg/kg	0.00325 %		
9	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8			1.9	mg/kg	1.405	2.669	mg/kg	0.000267 %		
10	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9	51.3	mg/kg	2.774	142.314	mg/kg	0.0142 %		
11	pH		PH		8.3	pH		8.3	pH	8.3 pH		
12	TPH (C6 to C40) petroleum group		TPH		<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
13	acenaphthene	201-469-6	83-32-9		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
14	acenaphthylene	205-917-1	208-96-8		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
15	anthracene	204-371-1	120-12-7		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD



#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
16	benzo[a]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-033-00-9	200-280-6	56-55-3							
17	benzo[a]pyrene; benzo[def]chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-032-00-3	200-028-5	50-32-8							
18	benzo[b]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-034-00-4	205-911-9	205-99-2							
19	benzo[ghi]perylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-883-8	191-24-2							
20	benzo[k]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-036-00-5	205-916-6	207-08-9							
21	chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-048-00-0	205-923-4	218-01-9							
22	dibenz[a,h]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
23	fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-912-4	206-44-0							
24	fluorene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-695-5	86-73-7							
25	indeno[123-cd]pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-893-2	193-39-5							
26	naphthalene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
27	phenanthrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-581-5	85-01-8							
28	pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		204-927-3	129-00-0							
Total:								0.026 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
•	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification



Classification of sample: WS05

✔ **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:	LoW Code:
WS05	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.2 m	

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3	10.1	mg/kg	1.32	13.335	mg/kg	0.00133 %		
2	boron { boron tribromide/trichloride/trifluoride (combined) }		10294-33-4, 10294-34-5, 7637-07-2		0.7	mg/kg	13.43	9.401	mg/kg	0.00094 %		
3	cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	<0.5	mg/kg	1.285	<0.643	mg/kg	<0.00005 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }	215-160-9	1308-38-9		27.8	mg/kg	1.462	40.631	mg/kg	0.00406 %		
5	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1	53.2	mg/kg	1.126	59.897	mg/kg	0.00599 %		
6	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	57.4	mg/kg	1.56	89.533	mg/kg	0.00574 %		
7	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7	<0.5	mg/kg	1.353	<0.677	mg/kg	<0.0000677 %		<LOD
8	nickel { nickel dihydroxide }	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]	21.4	mg/kg	1.579	33.801	mg/kg	0.00338 %		
9	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8			<1	mg/kg	1.405	<1.405	mg/kg	<0.000141 %		<LOD
10	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9	108	mg/kg	2.774	299.608	mg/kg	0.03 %		
11	pH		PH		5.8	pH		5.8	pH	5.8 pH		
12	TPH (C6 to C40) petroleum group		TPH		<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
13	acenaphthene	201-469-6	83-32-9		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
14	acenaphthylene	205-917-1	208-96-8		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
15	anthracene	204-371-1	120-12-7		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD



#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
16	benzo[a]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
	601-033-00-9	200-280-6	56-55-3								
17	benzo[a]pyrene; benzo[def]chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
	601-032-00-3	200-028-5	50-32-8								
18	benzo[b]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
	601-034-00-4	205-911-9	205-99-2								
19	benzo[ghi]perylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
		205-883-8	191-24-2								
20	benzo[k]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
	601-036-00-5	205-916-6	207-08-9								
21	chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
	601-048-00-0	205-923-4	218-01-9								
22	dibenz[a,h]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
	601-041-00-2	200-181-8	53-70-3								
23	fluoranthene				0.1 mg/kg		0.1 mg/kg	0.00001 %			
		205-912-4	206-44-0								
24	fluorene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
		201-695-5	86-73-7								
25	indeno[123-cd]pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
		205-893-2	193-39-5								
26	naphthalene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
	601-052-00-2	202-049-5	91-20-3								
27	phenanthrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
		201-581-5	85-01-8								
28	pyrene				0.1 mg/kg		0.1 mg/kg	0.00001 %			
		204-927-3	129-00-0								
Total:									0.0519 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
•	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification



Classification of sample: WS06

✔ **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:	LoW Code:
WS06	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
1 m	

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
1	arsenic { arsenic trioxide }				13.8 mg/kg	1.32	18.22 mg/kg	0.00182 %			
	033-003-00-0	215-481-4	1327-53-3								
2	boron { boron tribromide/trichloride/trifluoride (combined) }				<0.5 mg/kg	13.43	<6.715 mg/kg	<0.000672 %			<LOD
			10294-33-4, 10294-34-5, 7637-07-2								
3	cadmium { cadmium sulfide }			1	<0.5 mg/kg	1.285	<0.643 mg/kg	<0.00005 %			<LOD
	048-010-00-4	215-147-8	1306-23-6								
4	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				30.6 mg/kg	1.462	44.724 mg/kg	0.00447 %			
		215-160-9	1308-38-9								
5	copper { dicopper oxide; copper (I) oxide }				19.5 mg/kg	1.126	21.955 mg/kg	0.0022 %			
	029-002-00-X	215-270-7	1317-39-1								
6	lead { lead chromate }			1	13.7 mg/kg	1.56	21.369 mg/kg	0.00137 %			
	082-004-00-2	231-846-0	7758-97-6								
7	mercury { mercury dichloride }				<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %			<LOD
	080-010-00-X	231-299-8	7487-94-7								
8	nickel { nickel dihydroxide }				34.6 mg/kg	1.579	54.651 mg/kg	0.00547 %			
	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]								
9	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1 mg/kg	1.405	<1.405 mg/kg	<0.000141 %			<LOD
	034-002-00-8										
10	zinc { zinc chromate }				54.6 mg/kg	2.774	151.468 mg/kg	0.0151 %			
	024-007-00-3	236-878-9	13530-65-9								
11	pH		PH		8 pH		8 pH	8pH			
12	TPH (C6 to C40) petroleum group		TPH		4.6 mg/kg		4.6 mg/kg	0.00046 %			
13	acenaphthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
		201-469-6	83-32-9								
14	acenaphthylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
		205-917-1	208-96-8								
15	anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
		204-371-1	120-12-7								



#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
16	benzo[a]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-033-00-9	200-280-6	56-55-3							
17	benzo[a]pyrene; benzo[def]chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-032-00-3	200-028-5	50-32-8							
18	benzo[b]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-034-00-4	205-911-9	205-99-2							
19	benzo[ghi]perylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-883-8	191-24-2							
20	benzo[k]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-036-00-5	205-916-6	207-08-9							
21	chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-048-00-0	205-923-4	218-01-9							
22	dibenz[a,h]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
23	fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-912-4	206-44-0							
24	fluorene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-695-5	86-73-7							
25	indeno[123-cd]pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-893-2	193-39-5							
26	naphthalene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
27	phenanthrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-581-5	85-01-8							
28	pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		204-927-3	129-00-0							
Total:								0.032 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
•	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because No liquid phase product was observed in the sample

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00046%)



Classification of sample: WS07

✔ **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:	LoW Code:
WS07	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.2 m	

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3	8.4 mg/kg	1.32	11.091 mg/kg	0.00111 %			
2	boron { boron tribromide/trichloride/trifluoride (combined) }		10294-33-4, 10294-34-5, 7637-07-2		<0.5 mg/kg	13.43	<6.715 mg/kg	<0.000672 %			<LOD
3	cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	<0.5 mg/kg	1.285	<0.643 mg/kg	<0.00005 %			<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }	215-160-9	1308-38-9		29.8 mg/kg	1.462	43.554 mg/kg	0.00436 %			
5	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1	16.8 mg/kg	1.126	18.915 mg/kg	0.00189 %			
6	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	31.3 mg/kg	1.56	48.822 mg/kg	0.00313 %			
7	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7	<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %			<LOD
8	nickel { nickel dihydroxide }	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]	26.3 mg/kg	1.579	41.541 mg/kg	0.00415 %			
9	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8			<1 mg/kg	1.405	<1.405 mg/kg	<0.000141 %			<LOD
10	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9	47.9 mg/kg	2.774	132.882 mg/kg	0.0133 %			
11	pH		PH		6.6 pH		6.6 pH	6.6 pH			
12	TPH (C6 to C40) petroleum group		TPH		<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
13	acenaphthene	201-469-6	83-32-9		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
14	acenaphthylene	205-917-1	208-96-8		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
15	anthracene	204-371-1	120-12-7		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD



#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
16	benzo[a]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-033-00-9	200-280-6	56-55-3							
17	benzo[a]pyrene; benzo[def]chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-032-00-3	200-028-5	50-32-8							
18	benzo[b]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-034-00-4	205-911-9	205-99-2							
19	benzo[ghi]perylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-883-8	191-24-2							
20	benzo[k]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-036-00-5	205-916-6	207-08-9							
21	chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-048-00-0	205-923-4	218-01-9							
22	dibenz[a,h]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
23	fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-912-4	206-44-0							
24	fluorene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-695-5	86-73-7							
25	indeno[123-cd]pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-893-2	193-39-5							
26	naphthalene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
27	phenanthrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-581-5	85-01-8							
28	pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		204-927-3	129-00-0							
Total:								0.0291 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
•	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification



Classification of sample: WS08

✔ **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:	LoW Code:
WS08	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.1 m	

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3	11.2 mg/kg	1.32	14.788 mg/kg	0.00148 %			
2	boron { boron tribromide/trichloride/trifluoride (combined) }		10294-33-4, 10294-34-5, 7637-07-2		<0.5 mg/kg	13.43	<6.715 mg/kg	<0.000672 %			<LOD
3	cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	<0.5 mg/kg	1.285	<0.643 mg/kg	<0.00005 %			<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }	215-160-9	1308-38-9		28.2 mg/kg	1.462	41.216 mg/kg	0.00412 %			
5	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1	37 mg/kg	1.126	41.658 mg/kg	0.00417 %			
6	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	33.9 mg/kg	1.56	52.878 mg/kg	0.00339 %			
7	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7	<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %			<LOD
8	nickel { nickel dihydroxide }	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]	24.7 mg/kg	1.579	39.014 mg/kg	0.0039 %			
9	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8			<1 mg/kg	1.405	<1.405 mg/kg	<0.000141 %			<LOD
10	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9	58.5 mg/kg	2.774	162.288 mg/kg	0.0162 %			
11	pH		PH		6.5 pH		6.5 pH	6.5 pH			
12	TPH (C6 to C40) petroleum group		TPH		<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
13	acenaphthene	201-469-6	83-32-9		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
14	acenaphthylene	205-917-1	208-96-8		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
15	anthracene	204-371-1	120-12-7		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD



#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
16	benzo[a]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
	601-033-00-9	200-280-6	56-55-3								
17	benzo[a]pyrene; benzo[def]chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
	601-032-00-3	200-028-5	50-32-8								
18	benzo[b]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
	601-034-00-4	205-911-9	205-99-2								
19	benzo[ghi]perylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
		205-883-8	191-24-2								
20	benzo[k]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
	601-036-00-5	205-916-6	207-08-9								
21	chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
	601-048-00-0	205-923-4	218-01-9								
22	dibenz[a,h]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
	601-041-00-2	200-181-8	53-70-3								
23	fluoranthene				0.1 mg/kg		0.1 mg/kg	0.00001 %			
		205-912-4	206-44-0								
24	fluorene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
		201-695-5	86-73-7								
25	indeno[123-cd]pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
		205-893-2	193-39-5								
26	naphthalene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
	601-052-00-2	202-049-5	91-20-3								
27	phenanthrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
		201-581-5	85-01-8								
28	pyrene				0.1 mg/kg		0.1 mg/kg	0.00001 %			
		204-927-3	129-00-0								
Total:									0.0345 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
•	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification



Classification of sample: WS12

✔ **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:	LoW Code:
WS12	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.2 m	

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3	13 mg/kg	1.32	17.164 mg/kg	0.00172 %			
2	boron { boron tribromide/trichloride/trifluoride (combined) }		10294-33-4, 10294-34-5, 7637-07-2		0.6 mg/kg	13.43	8.058 mg/kg	0.000806 %			
3	cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	<0.5 mg/kg	1.285	<0.643 mg/kg	<0.00005 %			<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }	215-160-9	1308-38-9		31.8 mg/kg	1.462	46.477 mg/kg	0.00465 %			
5	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1	35.8 mg/kg	1.126	40.307 mg/kg	0.00403 %			
6	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	54.4 mg/kg	1.56	84.854 mg/kg	0.00544 %			
7	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7	<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %			<LOD
8	nickel { nickel dihydroxide }	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]	26.9 mg/kg	1.579	42.489 mg/kg	0.00425 %			
9	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8			<1 mg/kg	1.405	<1.405 mg/kg	<0.000141 %			<LOD
10	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9	57 mg/kg	2.774	158.126 mg/kg	0.0158 %			
11	pH		PH		6.8 pH		6.8 pH	6.8 pH			
12	TPH (C6 to C40) petroleum group		TPH		<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
13	acenaphthene	201-469-6	83-32-9		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
14	acenaphthylene	205-917-1	208-96-8		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
15	anthracene	204-371-1	120-12-7		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD



#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
16	benzo[a]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
	601-033-00-9	200-280-6	56-55-3								
17	benzo[a]pyrene; benzo[def]chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
	601-032-00-3	200-028-5	50-32-8								
18	benzo[b]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
	601-034-00-4	205-911-9	205-99-2								
19	benzo[ghi]perylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
		205-883-8	191-24-2								
20	benzo[k]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
	601-036-00-5	205-916-6	207-08-9								
21	chrysene				0.1 mg/kg		0.1 mg/kg	0.00001 %			
	601-048-00-0	205-923-4	218-01-9								
22	dibenz[a,h]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
	601-041-00-2	200-181-8	53-70-3								
23	fluoranthene				0.2 mg/kg		0.2 mg/kg	0.00002 %			
		205-912-4	206-44-0								
24	fluorene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
		201-695-5	86-73-7								
25	indeno[123-cd]pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
		205-893-2	193-39-5								
26	naphthalene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
	601-052-00-2	202-049-5	91-20-3								
27	phenanthrene				0.1 mg/kg		0.1 mg/kg	0.00001 %			
		201-581-5	85-01-8								
28	pyrene				0.2 mg/kg		0.2 mg/kg	0.00002 %			
		204-927-3	129-00-0								
Total:									0.0372 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
•	Determinand defined or amended by HazWasteOnline (see Appendix A)
•	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification



Classification of sample: WS13

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:	LoW Code:
WS13	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.1 m	

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3	13.8 mg/kg	1.32	18.22 mg/kg	0.00182 %			
2	boron { boron tribromide/trichloride/trifluoride (combined) }		10294-33-4, 10294-34-5, 7637-07-2		0.9 mg/kg	13.43	12.087 mg/kg	0.00121 %			
3	cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	<0.5 mg/kg	1.285	<0.643 mg/kg	<0.00005 %			<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }	215-160-9	1308-38-9		25 mg/kg	1.462	36.539 mg/kg	0.00365 %			
5	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1	49.6 mg/kg	1.126	55.844 mg/kg	0.00558 %			
6	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	68 mg/kg	1.56	106.067 mg/kg	0.0068 %			
7	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7	<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %			<LOD
8	nickel { nickel dihydroxide }	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]	22 mg/kg	1.579	34.749 mg/kg	0.00347 %			
9	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8			<1 mg/kg	1.405	<1.405 mg/kg	<0.000141 %			<LOD
10	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9	90 mg/kg	2.774	249.673 mg/kg	0.025 %			
11	pH		PH		5.9 pH		5.9 pH	5.9 pH			
12	TPH (C6 to C40) petroleum group		TPH		<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
13	acenaphthene	201-469-6	83-32-9		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
14	acenaphthylene	205-917-1	208-96-8		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
15	anthracene	204-371-1	120-12-7		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD



#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
16	benzo[a]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-033-00-9	200-280-6	56-55-3							
17	benzo[a]pyrene; benzo[def]chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-032-00-3	200-028-5	50-32-8							
18	benzo[b]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-034-00-4	205-911-9	205-99-2							
19	benzo[ghi]perylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-883-8	191-24-2							
20	benzo[k]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-036-00-5	205-916-6	207-08-9							
21	chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-048-00-0	205-923-4	218-01-9							
22	dibenz[a,h]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
23	fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-912-4	206-44-0							
24	fluorene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-695-5	86-73-7							
25	indeno[123-cd]pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-893-2	193-39-5							
26	naphthalene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
27	phenanthrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-581-5	85-01-8							
28	pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		204-927-3	129-00-0							
Total:								0.048 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
•	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification



Classification of sample: WS16

✔ **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:	LoW Code:
WS16	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.6 m	

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3	11.9 mg/kg	1.32	15.712 mg/kg	0.00157 %			
2	boron { boron tribromide/trichloride/trifluoride (combined) }		10294-33-4, 10294-34-5, 7637-07-2		<0.5 mg/kg	13.43	<6.715 mg/kg	<0.000672 %			<LOD
3	cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	<0.5 mg/kg	1.285	<0.643 mg/kg	<0.00005 %			<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }	215-160-9	1308-38-9		40.6 mg/kg	1.462	59.339 mg/kg	0.00593 %			
5	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1	23 mg/kg	1.126	25.895 mg/kg	0.00259 %			
6	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	15.5 mg/kg	1.56	24.177 mg/kg	0.00155 %			
7	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7	<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %			<LOD
8	nickel { nickel dihydroxide }	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]	45.3 mg/kg	1.579	71.551 mg/kg	0.00716 %			
9	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8			<1 mg/kg	1.405	<1.405 mg/kg	<0.000141 %			<LOD
10	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9	54.5 mg/kg	2.774	151.191 mg/kg	0.0151 %			
11	pH		PH		6.9 pH		6.9 pH	6.9 pH			
12	TPH (C6 to C40) petroleum group		TPH		2.1 mg/kg		2.1 mg/kg	0.00021 %			
13	acenaphthene	201-469-6	83-32-9		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
14	acenaphthylene	205-917-1	208-96-8		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
15	anthracene	204-371-1	120-12-7		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD



#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
16	benzo[a]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-033-00-9	200-280-6	56-55-3							
17	benzo[a]pyrene; benzo[def]chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-032-00-3	200-028-5	50-32-8							
18	benzo[b]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-034-00-4	205-911-9	205-99-2							
19	benzo[ghi]perylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-883-8	191-24-2							
20	benzo[k]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-036-00-5	205-916-6	207-08-9							
21	chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-048-00-0	205-923-4	218-01-9							
22	dibenz[a,h]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
23	fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-912-4	206-44-0							
24	fluorene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-695-5	86-73-7							
25	indeno[123-cd]pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-893-2	193-39-5							
26	naphthalene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
27	phenanthrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-581-5	85-01-8							
28	pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		204-927-3	129-00-0							
Total:								0.0352 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
•	Determinand defined or amended by HazWasteOnline (see Appendix A)
•	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because No liquid phase product was observed in the sample

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00021%)



Classification of sample: WS18

✔ **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details
















Sample name: **WS18** LoW Code: Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth: **0.2 m** Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value		MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number										
1		arsenic { arsenic trioxide }			1	8.8	mg/kg	1.32	11.619	mg/kg	0.00116 %			
		033-003-00-0	215-481-4	1327-53-3										
2		boron { boron tribromide/trichloride/trifluoride (combined) }				<0.5	mg/kg	13.43	<6.715	mg/kg	<0.000672 %		<LOD	
				10294-33-4, 10294-34-5, 7637-07-2										
3		cadmium { cadmium sulfide }			1	<0.5	mg/kg	1.285	<0.643	mg/kg	<0.00005 %		<LOD	
		048-010-00-4	215-147-8	1306-23-6										
4		chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				27.4	mg/kg	1.462	40.047	mg/kg	0.004 %			
			215-160-9	1308-38-9										
5		copper { dicopper oxide; copper (I) oxide }				20.9	mg/kg	1.126	23.531	mg/kg	0.00235 %			
		029-002-00-X	215-270-7	1317-39-1										
6		lead { lead chromate }			1	27.5	mg/kg	1.56	42.895	mg/kg	0.00275 %			
		082-004-00-2	231-846-0	7758-97-6										
7		mercury { mercury dichloride }				<0.5	mg/kg	1.353	<0.677	mg/kg	<0.0000677 %		<LOD	
		080-010-00-X	231-299-8	7487-94-7										
8		nickel { nickel dihydroxide }				23	mg/kg	1.579	36.328	mg/kg	0.00363 %			
		028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]										
9		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1	mg/kg	1.405	<1.405	mg/kg	<0.000141 %		<LOD	
		034-002-00-8												
10		zinc { zinc chromate }				40.3	mg/kg	2.774	111.798	mg/kg	0.0112 %			
		024-007-00-3	236-878-9	13530-65-9										
11		pH				6.5	pH		6.5	pH	6.5 pH			
				PH										
12		TPH (C6 to C40) petroleum group				7.9	mg/kg		7.9	mg/kg	0.00079 %			
				TPH										
13		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD	
			201-469-6	83-32-9										
14		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD	
			205-917-1	208-96-8										
15		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD	
			204-371-1	120-12-7										



#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
16	benzo[a]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-033-00-9	200-280-6	56-55-3							
17	benzo[a]pyrene; benzo[def]chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-032-00-3	200-028-5	50-32-8							
18	benzo[b]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-034-00-4	205-911-9	205-99-2							
19	benzo[ghi]perylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-883-8	191-24-2							
20	benzo[k]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-036-00-5	205-916-6	207-08-9							
21	chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-048-00-0	205-923-4	218-01-9							
22	dibenz[a,h]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
23	fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-912-4	206-44-0							
24	fluorene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-695-5	86-73-7							
25	indeno[123-cd]pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-893-2	193-39-5							
26	naphthalene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
27	phenanthrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-581-5	85-01-8							
28	pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		204-927-3	129-00-0							
Total:								0.027 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
•	Determinand defined or amended by HazWasteOnline (see Appendix A)
•	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and ≤ 75°C"

Force this Hazardous property to non hazardous because No liquid phase product was observed in the sample

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00079%)

Appendix A: Classifier defined and non CLP determinands

■ boron tribromide/trichloride/trifluoride (combined) (CAS Number: 10294-33-4, 10294-34-5, 7637-07-2)

Description/Comments: Combines the hazard statements and the average of the conversion factors for boron tribromide, boron trichloride and boron trifluoride

Data source: N/A

Data source date: 06 Aug 2015

Hazard Statements: EUH014 , Acute Tox. 2 H330 , Acute Tox. 2 H300 , Skin Corr. 1A H314 , Skin Corr. 1B H314

■ chromium(III) oxide (worst case) (EC Number: 215-160-9, CAS Number: 1308-38-9)

Description/Comments: Data from C&L Inventory Database

Data source: <https://echa.europa.eu/information-on-chemicals/cl-inventory-database/-/discli/details/33806>

Data source date: 17 Jul 2015

Hazard Statements: Acute Tox. 4 H332 , Acute Tox. 4 H302 , Eye Irrit. 2 H319 , STOT SE 3 H335 , Skin Irrit. 2 H315 , Resp. Sens. 1 H334 , Skin Sens. 1 H317 , Repr. 1B H360FD , Aquatic Acute 1 H400 , Aquatic Chronic 1 H410

■ pH (CAS Number: PH)

Description/Comments: Appendix C4

Data source: WM3 1st Edition 2015

Data source date: 25 May 2015

Hazard Statements: None.

■ TPH (C6 to C40) petroleum group (CAS Number: TPH)

Description/Comments: Hazard statements taken from WM3 1st Edition 2015; Risk phrases: WM2 3rd Edition 2013

Data source: WM3 1st Edition 2015

Data source date: 25 May 2015

Hazard Statements: Flam. Liq. 3 H226 , Asp. Tox. 1 H304 , STOT RE 2 H373 , Muta. 1B H340 , Carc. 1B H350 , Repr. 2 H361d , Aquatic Chronic 2 H411

■ acenaphthene (EC Number: 201-469-6, CAS Number: 83-32-9)

Description/Comments: Data from C&L Inventory Database

Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 17 Jul 2015

Hazard Statements: Eye Irrit. 2 H319 , STOT SE 3 H335 , Skin Irrit. 2 H315 , Aquatic Acute 1 H400 , Aquatic Chronic 1 H410 , Aquatic Chronic 2 H411

■ acenaphthylene (EC Number: 205-917-1, CAS Number: 208-96-8)

Description/Comments: Data from C&L Inventory Database

Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 17 Jul 2015

Hazard Statements: Acute Tox. 4 H302 , Acute Tox. 1 H330 , Acute Tox. 1 H310 , Eye Irrit. 2 H319 , STOT SE 3 H335 , Skin Irrit. 2 H315

■ anthracene (EC Number: 204-371-1, CAS Number: 120-12-7)

Description/Comments: Data from C&L Inventory Database

Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 17 Jul 2015

Hazard Statements: Eye Irrit. 2 H319 , STOT SE 3 H335 , Skin Irrit. 2 H315 , Skin Sens. 1 H317 , Aquatic Acute 1 H400 , Aquatic Chronic 1 H410

■ benzo[ghi]perylene (EC Number: 205-883-8, CAS Number: 191-24-2)

Description/Comments: Data from C&L Inventory Database; SDS Sigma Aldrich 28/02/2015

Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 23 Jul 2015

Hazard Statements: Aquatic Acute 1 H400 , Aquatic Chronic 1 H410

■ fluoranthene (EC Number: 205-912-4, CAS Number: 206-44-0)

Description/Comments: Data from C&L Inventory Database

Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 21 Aug 2015

Hazard Statements: Acute Tox. 4 H302 , Aquatic Acute 1 H400 , Aquatic Chronic 1 H410

■ fluorene (EC Number: 201-695-5, CAS Number: 86-73-7)

Description/Comments: Data from C&L Inventory Database

Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 06 Aug 2015

Hazard Statements: Aquatic Acute 1 H400 , Aquatic Chronic 1 H410

▪ **indeno[123-cd]pyrene** (EC Number: 205-893-2, CAS Number: 193-39-5)

Description/Comments: Data from C&L Inventory Database

Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 06 Aug 2015

Hazard Statements: Carc. 2 H351

▪ **phenanthrene** (EC Number: 201-581-5, CAS Number: 85-01-8)

Description/Comments: Data from C&L Inventory Database

Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 06 Aug 2015

Hazard Statements: Acute Tox. 4 H302 , Eye Irrit. 2 H319 , STOT SE 3 H335 , Carc. 2 H351 , Skin Sens. 1 H317 , Aquatic Acute 1 H400 , Aquatic Chronic 1 H410 , Skin Irrit. 2 H315

▪ **pyrene** (EC Number: 204-927-3, CAS Number: 129-00-0)

Description/Comments: Data from C&L Inventory Database; SDS Sigma Aldrich 2014

Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 21 Aug 2015

Hazard Statements: Skin Irrit. 2 H315 , Eye Irrit. 2 H319 , STOT SE 3 H335 , Aquatic Acute 1 H400 , Aquatic Chronic 1 H410

Appendix B: Rationale for selection of metal species

arsenic {arsenic trioxide}

Worst case species based on hazard statements

boron {boron tribromide/trichloride/trifluoride (combined)}

Worst case species based on hazard statements

cadmium {cadmium sulfide}

Worst case species based on hazard statements

chromium in chromium(III) compounds {chromium(III) oxide (worst case)}

Worst case species based on hazard statements

copper {dicopper oxide; copper (I) oxide}

Most likely common species

lead {lead chromate}

Worst case species based on hazard statements

mercury {mercury dichloride}

Worst case species based on hazard statements

nickel {nickel dihydroxide}

Worst case species based on hazard statements

selenium {selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex}

Worst case species based on hazard statements

zinc {zinc chromate}

Worst case species based on hazard statements

Appendix C: Version

HazWasteOnline Classification Engine: WM3 1st Edition v1.1, May 2018

HazWasteOnline Classification Engine Version: 2021.187.4816.9162 (06 Jul 2021)

HazWasteOnline Database: 2021.187.4816.9162 (06 Jul 2021)

This classification utilises the following guidance and legislation:

WM3 v1.1 - Waste Classification - 1st Edition v1.1 - May 2018

CLP Regulation - Regulation 1272/2008/EC of 16 December 2008

1st ATP - Regulation 790/2009/EC of 10 August 2009

2nd ATP - Regulation 286/2011/EC of 10 March 2011

3rd ATP - Regulation 618/2012/EU of 10 July 2012

4th ATP - Regulation 487/2013/EU of 8 May 2013

Correction to 1st ATP - Regulation 758/2013/EU of 7 August 2013

5th ATP - Regulation 944/2013/EU of 2 October 2013

6th ATP - Regulation 605/2014/EU of 5 June 2014

WFD Annex III replacement - Regulation 1357/2014/EU of 18 December 2014

Revised List of Waste 2014 - Decision 2014/955/EU of 18 December 2014

7th ATP - Regulation 2015/1221/EU of 24 July 2015

8th ATP - Regulation (EU) 2016/918 of 19 May 2016

9th ATP - Regulation (EU) 2016/1179 of 19 July 2016

10th ATP - Regulation (EU) 2017/776 of 4 May 2017

HP14 amendment - Regulation (EU) 2017/997 of 8 June 2017

13th ATP - Regulation (EU) 2018/1480 of 4 October 2018

14th ATP - Regulation (EU) 2020/217 of 4 October 2019

15th ATP - Regulation (EU) 2020/1182 of 19 May 2020

The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use)(Amendment etc.) (EU Exit)

Regulations 2019 - UK: 2019 No. 720 of 27th March 2019

The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use)(Amendment etc.) (EU Exit)

Regulations 2020 - UK: 2020 No. 1567 of 16th December 2020

The Waste and Environmental Permitting etc. (Legislative Functions and Amendment etc.) (EU Exit) Regulations 2020 - UK:

2020 No. 1540 of 16th December 2020

POPs Regulation 2019 - Regulation (EU) 2019/1021 of 20 June 2019