



2183



Final Report

Report No.:	19-07270-1		
Initial Date of Issue:	15-Mar-2019		
Client	Earth Science Partnership		
Client Address:	33 Cardiff Road Taffs Well Cardiff CF15 7RB		
Contact(s):	Mat Elcock		
Project	7061b Cosmeston Farm		
Quotation No.:		Date Received:	27-Feb-2019
Order No.:	7829	Date Instructed:	27-Feb-2019
No. of Samples:	17		
Turnaround (Wkdays):	12	Results Due:	14-Mar-2019
Date Approved:	15-Mar-2019		

Details: Martin Dyer, Laboratory Manager

Results - Soil

Project: 7061b Cosmeston Farm

Client: Earth Science Partnership	Chemtest Job No.:				19-07270	19-07270	19-07270	19-07270	19-07270	19-07270	19-07270	19-07270	19-07270
Quotation No.:	Chemtest Sample ID.:				783788	783789	783790	783791	783792	783793	783794	783795	783796
	Client Sample ID.:				ETP1	ETP3	EBH12	ETP10	ETP11	ETP12	ETP13	ETP15	ETP15
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):				0.10	0.20	0.20	0.20	0.20	0.20	0.10	0.10	0.20
	Asbestos Lab:				DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	
Determinand	Accred.	SOP	Units	LOD									
ACM Type	U	2192		N/A	-	-	-	-	-	-	-	-	
Asbestos Identification	U	2192	%	0.001	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	
ACM Detection Stage	U	2192		N/A	-	-	-	-	-	-	-	-	
Moisture	N	2030	%	0.020	29	24	23	23	20	24	21	27	21
Soil Colour	N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown,	Brown	Brown,	
Other Material	N	2040		N/A	Stones,	Stones	Stones	Stones	Stones,	NONE	NONE,	NONE,	
Soil Texture	N	2040		N/A	Sand	Clay	Clay	Sand	Sand	Sand,	Sand	Clay,	
pH	M	2010		N/A	[A] 7.5	[A] 8.0	[A] 8.0	[A] 8.0	[A] 9.0	[A] 7.6	[A] 7.4	[A] 7.7	[A] 8.5
Boron (Hot Water Soluble)	M	2120	mg/kg	0.40	1.1	< 0.40	< 0.40	< 0.40	1.8	1.7	1.9	1.1	
Sulphate (2:1 Water Soluble) as SO4	M	2120	g/l	0.010									< 0.010
Total Sulphur	M	2175	%	0.010									[A] 0.036
Cyanide (Total)	M	2300	mg/kg	0.50	[A] < 0.50	[A] < 0.50	[A] < 0.50	[A] < 0.50	[A] < 0.50	[A] < 0.50	[A] < 0.50	[A] < 0.50	
Sulphate (Acid Soluble)	M	2430	%	0.010									[A] 0.054
Arsenic	M	2450	mg/kg	1.0	17	16	13	18	21	17	15	16	
Barium	M	2450	mg/kg	10	170	150	200	130	150	180	130	110	
Beryllium	U	2450	mg/kg	1.0	1.1	1.1	< 1.0	1.0	< 1.0	1.4	1.0	1.1	
Cadmium	M	2450	mg/kg	0.10	1.0	1.4	1.9	0.71	0.79	0.97	0.82	0.62	
Chromium	M	2450	mg/kg	1.0	30	29	26	30	29	36	29	34	
Copper	M	2450	mg/kg	0.50	53	52	50	48	40	49	44	44	
Mercury	M	2450	mg/kg	0.10	< 0.10	< 0.10	< 0.10	0.11	0.27	0.22	< 0.10	0.10	
Nickel	M	2450	mg/kg	0.50	45	76	69	43	41	45	42	40	
Lead	M	2450	mg/kg	0.50	58	38	46	47	43	54	54	47	
Selenium	M	2450	mg/kg	0.20	0.74	0.72	0.73	0.75	0.23	0.73	0.59	0.56	
Vanadium	U	2450	mg/kg	5.0	43	34	39	40	39	45	41	44	
Zinc	M	2450	mg/kg	0.50	130	100	130	97	79	140	110	100	
Chromium (Hexavalent)	N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
Organic Matter	M	2625	%	0.40	[A] 9.3	[A] 2.9	[A] 5.3	[A] 9.3	[A] 9.5	[A] 7.8	[A] 5.7	[A] 8.3	
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0	[A] < 1.0	[A] < 1.0		[A] < 1.0			[A] < 1.0		
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0	[A] < 1.0	[A] < 1.0		[A] < 1.0			[A] < 1.0		
Aliphatic TPH >C8-C10	M	2680	mg/kg	1.0	[A] < 1.0	[A] < 1.0		[A] < 1.0			[A] 2.8		
Aliphatic TPH >C10-C12	M	2680	mg/kg	1.0	[A] < 1.0	[A] < 1.0		[A] < 1.0			[A] 50		
Aliphatic TPH >C12-C16	M	2680	mg/kg	1.0	[A] < 1.0	[A] < 1.0		[A] < 1.0			[A] 270		
Aliphatic TPH >C16-C21	M	2680	mg/kg	1.0	[A] < 1.0	[A] < 1.0		[A] < 1.0			[A] 260		
Aliphatic TPH >C21-C35	M	2680	mg/kg	1.0	[A] < 1.0	[A] < 1.0		[A] < 1.0			[A] 430		
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0	[A] < 1.0	[A] < 1.0		[A] < 1.0			[A] 7.6		
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0	[A] < 5.0	[A] < 5.0		[A] < 5.0			[A] 1000		
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0	[A] < 1.0	[A] < 1.0		[A] < 1.0			[A] < 1.0		
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0	[A] < 1.0	[A] < 1.0		[A] < 1.0			[A] < 1.0		
Aromatic TPH >C8-C10	M	2680	mg/kg	1.0	[A] < 1.0	[A] < 1.0		[A] < 1.0			[A] 28		

Results - Soil

Project: 7061b Cosmeston Farm

Client: Earth Science Partnership	Chemtest Job No.:		19-07270	19-07270	19-07270	19-07270	19-07270	19-07270	19-07270	19-07270	19-07270
Quotation No.:	Chemtest Sample ID.:		783788	783789	783790	783791	783792	783793	783794	783795	783796
	Client Sample ID.:		ETP1	ETP3	EBH12	ETP10	ETP11	ETP12	ETP13	ETP15	ETP15
	Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):		0.10	0.20	0.20	0.20	0.20	0.20	0.10	0.10	0.20
	Asbestos Lab:		DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	
Determinand	Accred.	SOP	Units	LOD							
Aromatic TPH >C10-C12	M	2680	mg/kg	1.0	[A] < 1.0	[A] < 1.0		[A] < 1.0		[A] 77	
Aromatic TPH >C12-C16	M	2680	mg/kg	1.0	[A] < 1.0	[A] < 1.0		[A] < 1.0		[A] 480	
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0	[A] < 1.0	[A] < 1.0		[A] < 1.0		[A] 530	
Aromatic TPH >C21-C35	M	2680	mg/kg	1.0	[A] < 1.0	[A] < 1.0		[A] < 1.0		[A] 770	
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0	[A] < 1.0	[A] < 1.0		[A] < 1.0		[A] 28	
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0	[A] < 5.0	[A] < 5.0		[A] < 5.0		[A] 1900	
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0	[A] < 10	[A] < 10		[A] < 10		[A] 2900	
Naphthalene	M	2700	mg/kg	0.10	[A] 4.6	[A] < 0.10	[A] < 0.10	[A] < 0.10	[A] < 0.10	[A] < 0.10	[A] < 0.10
Acenaphthylene	M	2700	mg/kg	0.10	[A] 1.6	[A] < 0.10	[A] < 0.10	[A] < 0.10	[A] < 0.10	[A] < 0.10	[A] < 0.10
Acenaphthene	M	2700	mg/kg	0.10	[A] 3.1	[A] < 0.10	[A] < 0.10	[A] < 0.10	[A] < 0.10	[A] < 0.10	[A] < 0.10
Fluorene	M	2700	mg/kg	0.10	[A] 1.9	[A] < 0.10	[A] < 0.10	[A] < 0.10	[A] < 0.10	[A] < 0.10	[A] < 0.10
Phenanthrene	M	2700	mg/kg	0.10	[A] 2.5	[A] < 0.10	[A] < 0.10	[A] 0.18	[A] < 0.10	[A] < 0.10	[A] < 0.10
Anthracene	M	2700	mg/kg	0.10	[A] 0.45	[A] < 0.10	[A] < 0.10	[A] < 0.10	[A] < 0.10	[A] < 0.10	[A] < 0.10
Fluoranthene	M	2700	mg/kg	0.10	[A] 1.1	[A] < 0.10	[A] < 0.10	[A] 0.16	[A] 0.25	[A] < 0.10	[A] 0.33
Pyrene	M	2700	mg/kg	0.10	[A] 1.2	[A] < 0.10	[A] < 0.10	[A] 0.45	[A] 0.25	[A] < 0.10	[A] 0.34
Benzo[a]anthracene	M	2700	mg/kg	0.10	[A] < 0.10	[A] < 0.10	[A] < 0.10	[A] < 0.10	[A] < 0.10	[A] < 0.10	[A] < 0.10
Chrysene	M	2700	mg/kg	0.10	[A] < 0.10	[A] < 0.10	[A] < 0.10	[A] < 0.10	[A] < 0.10	[A] < 0.10	[A] < 0.10
Benzo[b]fluoranthene	M	2700	mg/kg	0.10	[A] < 0.10	[A] < 0.10	[A] < 0.10	[A] < 0.10	[A] < 0.10	[A] < 0.10	[A] < 0.10
Benzo[k]fluoranthene	M	2700	mg/kg	0.10	[A] < 0.10	[A] < 0.10	[A] < 0.10	[A] < 0.10	[A] < 0.10	[A] < 0.10	[A] < 0.10
Benzo[a]pyrene	M	2700	mg/kg	0.10	[A] < 0.10	[A] < 0.10	[A] < 0.10	[A] < 0.10	[A] < 0.10	[A] < 0.10	[A] < 0.10
Indeno(1,2,3-c,d)Pyrene	M	2700	mg/kg	0.10	[A] < 0.10	[A] < 0.10	[A] < 0.10	[A] < 0.10	[A] < 0.10	[A] < 0.10	[A] < 0.10
Dibenz(a,h)Anthracene	M	2700	mg/kg	0.10	[A] < 0.10	[A] < 0.10	[A] < 0.10	[A] < 0.10	[A] < 0.10	[A] < 0.10	[A] < 0.10
Benzo[g,h,i]perylene	M	2700	mg/kg	0.10	[A] < 0.10	[A] < 0.10	[A] < 0.10	[A] < 0.10	[A] < 0.10	[A] < 0.10	[A] < 0.10
Total Of 16 PAH's	M	2700	mg/kg	2.0	[A] 17	[A] < 2.0	[A] < 2.0	[A] < 2.0	[A] < 2.0	[A] < 2.0	[A] < 2.0
Total Phenols	M	2920	mg/kg	0.30	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30

Results - Soil

Project: 7061b Cosmeston Farm

Client: Earth Science Partnership	Chemtest Job No.:				19-07270	19-07270	19-07270	19-07270	19-07270	19-07270	19-07270	19-07270
Quotation No.:	Chemtest Sample ID.:				783797	783798	783799	783802	783803	783805	783806	783807
	Client Sample ID.:				ETP22	ETP24	ETP2	ETP2	ETP10	ETP13	ETP22	ETP24
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):				0.20	0.20	0.10	0.80	0.40	0.30	0.40	0.50
	Asbestos Lab:				DURHAM	DURHAM	DURHAM					
Determinand	Accred.	SOP	Units	LOD								
ACM Type	U	2192		N/A	-	-	-					
Asbestos Identification	U	2192	%	0.001	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected					
ACM Detection Stage	U	2192		N/A	-	-	-					
Moisture	N	2030	%	0.020	26	25	24	15	17	18	18	15
Soil Colour	N	2040		N/A	Brown,	Brown	Brown,					
Other Material	N	2040		N/A	NONE,	NONE	Stones,					
Soil Texture	N	2040		N/A	Clay,	Clay	Sand					
pH	M	2010		N/A	[A] 7.5	[A] 7.5	[A] 7.3	[A] 8.7	[A] 8.5	[A] 8.3	[A] 8.6	[A] 8.4
Boron (Hot Water Soluble)	M	2120	mg/kg	0.40	1.9	2.1	1.6					
Sulphate (2:1 Water Soluble) as SO4	M	2120	g/l	0.010				< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Total Sulphur	M	2175	%	0.010				[A] 0.034	[A] 0.52	[A] 0.14	[A] 0.031	[A] 0.031
Cyanide (Total)	M	2300	mg/kg	0.50	[A] < 0.50	[A] < 0.50	[A] < 0.50					
Sulphate (Acid Soluble)	M	2430	%	0.010				[A] 0.050	[A] 0.074	[A] 0.038	[A] 0.026	[A] 0.058
Arsenic	M	2450	mg/kg	1.0	14	13	16					
Barium	M	2450	mg/kg	10	140	130	140					
Beryllium	U	2450	mg/kg	1.0	1.5	1.0	1.2					
Cadmium	M	2450	mg/kg	0.10	1.1	0.80	0.99					
Chromium	M	2450	mg/kg	1.0	37	33	32					
Copper	M	2450	mg/kg	0.50	35	33	45					
Mercury	M	2450	mg/kg	0.10	0.33	0.11	< 0.10					
Nickel	M	2450	mg/kg	0.50	31	34	43					
Lead	M	2450	mg/kg	0.50	53	44	57					
Selenium	M	2450	mg/kg	0.20	0.91	0.62	0.71					
Vanadium	U	2450	mg/kg	5.0	45	44	44					
Zinc	M	2450	mg/kg	0.50	130	120	120					
Chromium (Hexavalent)	N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50					
Organic Matter	M	2625	%	0.40	[A] < 0.40	[A] 8.3	[A] 8.1					
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0								
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0								
Aliphatic TPH >C8-C10	M	2680	mg/kg	1.0								
Aliphatic TPH >C10-C12	M	2680	mg/kg	1.0								
Aliphatic TPH >C12-C16	M	2680	mg/kg	1.0								
Aliphatic TPH >C16-C21	M	2680	mg/kg	1.0								
Aliphatic TPH >C21-C35	M	2680	mg/kg	1.0								
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0								
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0								
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0								
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0								
Aromatic TPH >C8-C10	M	2680	mg/kg	1.0								

Results - Soil

Project: 7061b Cosmeston Farm

Client: Earth Science Partnership	Chemtest Job No.:				19-07270	19-07270	19-07270	19-07270	19-07270	19-07270	19-07270	19-07270
Quotation No.:	Chemtest Sample ID.:				783797	783798	783799	783802	783803	783805	783806	783807
	Client Sample ID.:				ETP22	ETP24	ETP2	ETP2	ETP10	ETP13	ETP22	ETP24
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):				0.20	0.20	0.10	0.80	0.40	0.30	0.40	0.50
	Asbestos Lab:				DURHAM	DURHAM	DURHAM					
Determinand	Accred.	SOP	Units	LOD								
Aromatic TPH >C10-C12	M	2680	mg/kg	1.0								
Aromatic TPH >C12-C16	M	2680	mg/kg	1.0								
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0								
Aromatic TPH >C21-C35	M	2680	mg/kg	1.0								
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0								
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0								
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0								
Naphthalene	M	2700	mg/kg	0.10	[A] < 0.10	[A] < 0.10	[A] < 0.10					
Acenaphthylene	M	2700	mg/kg	0.10	[A] < 0.10	[A] < 0.10	[A] < 0.10					
Acenaphthene	M	2700	mg/kg	0.10	[A] < 0.10	[A] < 0.10	[A] < 0.10					
Fluorene	M	2700	mg/kg	0.10	[A] < 0.10	[A] < 0.10	[A] < 0.10					
Phenanthrene	M	2700	mg/kg	0.10	[A] < 0.10	[A] < 0.10	[A] < 0.10					
Anthracene	M	2700	mg/kg	0.10	[A] < 0.10	[A] < 0.10	[A] < 0.10					
Fluoranthene	M	2700	mg/kg	0.10	[A] < 0.10	[A] < 0.10	[A] 0.36					
Pyrene	M	2700	mg/kg	0.10	[A] < 0.10	[A] < 0.10	[A] 0.34					
Benzo[a]anthracene	M	2700	mg/kg	0.10	[A] < 0.10	[A] < 0.10	[A] < 0.10					
Chrysene	M	2700	mg/kg	0.10	[A] < 0.10	[A] < 0.10	[A] < 0.10					
Benzo[b]fluoranthene	M	2700	mg/kg	0.10	[A] < 0.10	[A] < 0.10	[A] < 0.10					
Benzo[k]fluoranthene	M	2700	mg/kg	0.10	[A] < 0.10	[A] < 0.10	[A] < 0.10					
Benzo[a]pyrene	M	2700	mg/kg	0.10	[A] < 0.10	[A] < 0.10	[A] < 0.10					
Indeno(1,2,3-c,d)Pyrene	M	2700	mg/kg	0.10	[A] < 0.10	[A] < 0.10	[A] < 0.10					
Dibenz(a,h)Anthracene	M	2700	mg/kg	0.10	[A] < 0.10	[A] < 0.10	[A] < 0.10					
Benzo[g,h,i]perylene	M	2700	mg/kg	0.10	[A] < 0.10	[A] < 0.10	[A] < 0.10					
Total Of 16 PAH's	M	2700	mg/kg	2.0	[A] < 2.0	[A] < 2.0	[A] < 2.0					
Total Phenols	M	2920	mg/kg	0.30	< 0.30	< 0.30	< 0.30					

Deviations

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

Sample:	Sample Ref:	Sample ID:	Sample Location:	Sampled Date:	Deviation Code(s):	Containers Received:
783788		ETP1			A	Amber Glass 250ml
783788		ETP1			A	Plastic Tub 500g
783789		ETP3			A	Amber Glass 250ml
783789		ETP3			A	Plastic Tub 500g
783790		EBH12			A	Amber Glass 250ml
783790		EBH12			A	Plastic Tub 500g
783791		ETP10			A	Amber Glass 250ml
783791		ETP10			A	Plastic Tub 500g
783792		ETP11			A	Amber Glass 250ml
783792		ETP11			A	Plastic Tub 500g
783793		ETP12			A	Amber Glass 250ml
783793		ETP12			A	Plastic Tub 500g
783794		ETP13			A	Amber Glass 250ml
783794		ETP13			A	Plastic Tub 500g
783795		ETP15			A	Amber Glass 250ml
783795		ETP15			A	Plastic Tub 500g
783796		ETP15			A	Amber Glass 250ml
783796		ETP15			A	Plastic Tub 500g
783797		ETP22			A	Amber Glass 250ml
783797		ETP22			A	Plastic Bag
783798		ETP24			A	Amber Glass 250ml
783798		ETP24			A	Plastic Bag
783799		ETP2			A	Amber Glass 250ml

Deviations

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

Sample:	Sample Ref:	Sample ID:	Sample Location:	Sampled Date:	Deviation Code(s):	Containers Received:
783799		ETP2			A	Plastic Tub 500g
783802		ETP2			A	Plastic Tub 500g
783803		ETP10			A	Amber Glass 250ml
783803		ETP10			A	Plastic Bag
783805		ETP13			A	Amber Glass 250ml
783805		ETP13			A	Plastic Tub 500g
783806		ETP22			A	Amber Glass 250ml
783806		ETP22			A	Plastic Bag
783807		ETP24			A	Amber Glass 250ml
783807		ETP24			A	Plastic Bag

SOP	Title	Parameters included	Method summary
2010	pH Value of Soils	pH	pH Meter
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <37°C.
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930
2120	Water Soluble Boron, Sulphate, Magnesium & Chromium	Boron; Sulphate; Magnesium; Chromium	Aqueous extraction / ICP-OES
2175	Total Sulphur in Soils	Total Sulphur	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry
2300	Cyanides & Thiocyanate in Soils	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Alkaline extraction followed by colorimetric determination using Automated Flow Injection Analyser.
2430	Total Sulphate in soils	Total Sulphate	Acid digestion followed by determination of sulphate in extract by ICP-OES.
2450	Acid Soluble Metals in Soils	Metals, including: Arsenic; Barium; Beryllium; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Vanadium; Zinc	Acid digestion followed by determination of metals in extract by ICP-MS.
2490	Hexavalent Chromium in Soils	Chromium [VI]	Soil extracts are prepared by extracting dried and ground soil samples into boiling water. Chromium [VI] is determined by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazide.
2625	Total Organic Carbon in Soils	Total organic Carbon (TOC)	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.
2680	TPH A/A Split	Aliphatics: >C5–C6, >C6–C8,>C8–C10, >C10–C12, >C12–C16, >C16–C21, >C21–C35, >C35– C44Aromatics: >C5–C7, >C7–C8, >C8– C10, >C10–C12, >C12–C16, >C16– C21, >C21– C35, >C35– C44	Dichloromethane extraction / GCxGC FID detection
2700	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-FID	Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenzo[ah]Anthracene; Fluoranthene; Fluorene; Indeno[123cd]Pyrene; Naphthalene; Phenanthrene; Pyrene	Dichloromethane extraction / GC-FID (GC-FID detection is non-selective and can be subject to interference from co-eluting compounds)
2920	Phenols in Soils by HPLC	Phenolic compounds including Resorcinol, Phenol, Methylphenols, Dimethylphenols, 1-Naphthol and TrimethylphenolsNote: chlorophenols are excluded.	60:40 methanol/water mixture extraction, followed by HPLC determination using electrochemical detection.

Report Information

Key

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

Comments or interpretations are beyond the scope of UKAS accreditation

The results relate only to the items tested

Uncertainty of measurement for the determinands tested are available upon request

None of the results in this report have been recovery corrected

All results are expressed on a dry weight basis

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

For all other tests the samples were dried at < 37°C prior to analysis

All Asbestos testing is performed at the indicated laboratory

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

Sample Deviation Codes

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

Sample Retention and Disposal

All soil samples will be retained for a period of 45 days from the date of receipt

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

Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:

customerservices@chemtest.com