



Final Report

Report No.: 16-06408-1

Initial Date of Issue: 23-Mar-2016

Client: Pam Brown Associates

Client Address: Needwood House, Lancaster Park
Newborough Road
Needwood
Staffordshire
DE13 9PD

Contact(s): Melissa Morales

Project: Pickhill Lane, Wrexham

Quotation No.:		Date Received:	17-Mar-2016
Order No.:	1572-16	Date Instructed:	17-Mar-2016
No. of Samples:	2	Target Date:	23-Mar-2016
Turnaround (Wkdays):	5	Results Due:	23-Mar-2016

Date Approved: 23-Mar-2016

Approved By:



Details: Martin Dyer, Laboratory Manager

Project: Pickhill Lane, Wrexham

Client: Pam Brown Associates		Chemtest Job No.:		16-06408	16-06408	
Quotation No.:		Chemtest Sample ID.:		268869	268870	
Order No.: 1572-16		Client Sample Ref.:		BH2a	BH4	
		Sample Type:		WATER	WATER	
		Bottom Depth (m):				
		Date Sampled:		15-Mar-2016	15-Mar-2016	
Determinand	Accred.	SOP	Units	LOD		
pH	U	1010		N/A	7.2	7.3
Sulphate	U	1220	mg/l	1.0	510	120
Cyanide (Total)	U	1300	mg/l	0.050	< 0.050	< 0.050
Sulphide	U	1325	mg/l	0.050	< 0.050	< 0.050
Arsenic (Dissolved)	U	1450	µg/l	1.0	< 1.0	< 1.0
Boron (Dissolved)	U	1450	µg/l	20	58	81
Cadmium (Dissolved)	U	1450	µg/l	0.080	< 0.080	0.26
Chromium (Dissolved)	U	1450	µg/l	1.0	3.1	1.4
Copper (Dissolved)	U	1450	µg/l	1.0	2.4	1.8
Mercury (Dissolved)	U	1450	µg/l	0.50	< 0.50	< 0.50
Nickel (Dissolved)	U	1450	µg/l	1.0	30	38
Lead (Dissolved)	U	1450	µg/l	1.0	< 1.0	< 1.0
Selenium (Dissolved)	U	1450	µg/l	1.0	97	3.3
Zinc (Dissolved)	U	1450	µg/l	1.0	100	34
Chromium (Hexavalent)	U	1490	µg/l	20	< 20	< 20
Total Organic Carbon	U	1610	mg/l	2.0	5.2	7.3
Aliphatic TPH >C5-C6	N	1675	µg/l	0.10	< 0.10	< 0.10
Aliphatic TPH >C6-C8	N	1675	µg/l	0.10	< 0.10	< 0.10
Aliphatic TPH >C8-C10	N	1675	µg/l	0.10	< 0.10	< 0.10
Aliphatic TPH >C10-C12	N	1675	µg/l	0.10	< 0.10	14
Aliphatic TPH >C12-C16	N	1675	µg/l	0.10	< 0.10	5.4
Aliphatic TPH >C16-C21	N	1675	µg/l	0.10	8.3	15
Aliphatic TPH >C21-C35	N	1675	µg/l	0.10	110	8300
Aliphatic TPH >C35-C44	N	1675	µg/l	0.10	< 0.10	50
Total Aliphatic Hydrocarbons	N	1675	µg/l	5.0	120	8400
Aromatic TPH >C5-C7	N	1675	µg/l	0.10	< 0.10	< 0.10
Aromatic TPH >C7-C8	N	1675	µg/l	0.10	< 0.10	< 0.10
Aromatic TPH >C8-C10	N	1675	µg/l	0.10	< 0.10	< 0.10
Aromatic TPH >C10-C12	N	1675	µg/l	0.10	< 0.10	< 0.10
Aromatic TPH >C12-C16	N	1675	µg/l	0.10	< 0.10	3.0
Aromatic TPH >C16-C21	N	1675	µg/l	0.10	5.3	42
Aromatic TPH >C21-C35	N	1675	µg/l	0.10	24	660
Aromatic TPH >C35-C44	N	1675	µg/l	0.10	< 0.10	600
Total Aromatic Hydrocarbons	N	1675	µg/l	5.0	29	1300
Total Petroleum Hydrocarbons	N	1675	µg/l	10	150	9700
Naphthalene	U	1700	µg/l	0.10	< 0.10	< 0.10
Acenaphthylene	U	1700	µg/l	0.10	< 0.10	< 0.10
Acenaphthene	U	1700	µg/l	0.10	< 0.10	< 0.10
Fluorene	U	1700	µg/l	0.10	< 0.10	< 0.10
Phenanthrene	U	1700	µg/l	0.10	< 0.10	< 0.10

Project: Pickhill Lane, Wrexham

Client: Pam Brown Associates	Chemtest Job No.:		16-06408	16-06408		
Quotation No.:	Chemtest Sample ID.:		268869	268870		
Order No.: 1572-16	Client Sample Ref.:		BH2a	BH4		
	Sample Type:		WATER	WATER		
	Bottom Depth (m):					
	Date Sampled:		15-Mar-2016	15-Mar-2016		
Determinand	Accred.	SOP	Units	LOD		
Anthracene	U	1700	µg/l	0.10	< 0.10	< 0.10
Fluoranthene	U	1700	µg/l	0.10	< 0.10	< 0.10
Pyrene	U	1700	µg/l	0.10	< 0.10	< 0.10
Benzo[a]anthracene	U	1700	µg/l	0.10	< 0.10	< 0.10
Chrysene	U	1700	µg/l	0.10	< 0.10	< 0.10
Benzo[b]fluoranthene	U	1700	µg/l	0.10	< 0.10	< 0.10
Benzo[k]fluoranthene	U	1700	µg/l	0.10	< 0.10	< 0.10
Benzo[a]pyrene	U	1700	µg/l	0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	U	1700	µg/l	0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene	U	1700	µg/l	0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	U	1700	µg/l	0.10	< 0.10	< 0.10
Total Of 16 PAH's	U	1700	µg/l	2.0	< 2.0	< 2.0
Total Phenols	U	1920	mg/l	0.030	0.15	0.040

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 our Coventry 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

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.co.uk



Final Report

Report No.: 16-06915-1

Initial Date of Issue: 31-Mar-2016

Client: Pam Brown Associates

Client Address: Needwood House, Lancaster Park
Newborough Road
Needwood
Staffordshire
DE13 9PD

Contact(s): Melissa Morales

Project: Pickhill Lane, Wrexham

Quotation No.:		Date Received:	23-Mar-2016
Order No.:	1572-16	Date Instructed:	23-Mar-2016
No. of Samples:	2	Target Date:	31-Mar-2016
Turnaround (Wkdays):	5	Results Due:	31-Mar-2016

Date Approved: 31-Mar-2016

Approved By:


Details: Glynn Harvey, Laboratory Manager

Project: Pickhill Lane, Wrexham

Client: Pam Brown Associates		Chemtest Job No.:		16-06915	16-06915	
Quotation No.:		Chemtest Sample ID.:		271643	271644	
		Client Sample ID.:		BH2A	BH4	
		Sample Type:		WATER	WATER	
		Bottom Depth (m):				
		Date Sampled:		21-Mar-2016	21-Mar-2016	
Determinand	Accred.	SOP	Units	LOD		
pH	U	1010		N/A	7.4	7.4
Sulphate	U	1220	mg/l	1.0	220	51
Cyanide (Total)	U	1300	mg/l	0.050	< 0.050	< 0.050
Cyanide (Free)	U	1300	mg/l	0.050	< 0.050	< 0.050
Thiocyanate	U	1300	mg/l	0.50	< 0.50	< 0.50
Sulphide	U	1325	mg/l	0.050	< 0.050	< 0.050
Arsenic (Dissolved)	U	1450	µg/l	1.0	< 1.0	< 1.0
Boron (Dissolved)	U	1450	µg/l	20	67	72
Cadmium (Dissolved)	U	1450	µg/l	0.080	0.17	0.29
Copper (Dissolved)	U	1450	µg/l	1.0	2.1	1.8
Mercury (Dissolved)	U	1450	µg/l	0.50	< 0.50	< 0.50
Nickel (Dissolved)	U	1450	µg/l	1.0	25	23
Lead (Dissolved)	U	1450	µg/l	1.0	2.8	< 1.0
Selenium (Dissolved)	U	1450	µg/l	1.0	13	1.9
Zinc (Dissolved)	U	1450	µg/l	1.0	46	24
Chromium (Total)	U	1450	µg/l	1.0	< 1.0	< 1.0
Chromium (Hexavalent)	U	1490	µg/l	20	< 20	< 20
Total Organic Carbon	U	1610	mg/l	2.0	4.7	5.3
Aliphatic TPH >C5-C6	N	1675	µg/l	0.10	< 0.10	< 0.10
Aliphatic TPH >C6-C8	N	1675	µg/l	0.10	< 0.10	< 0.10
Aliphatic TPH >C8-C10	N	1675	µg/l	0.10	< 0.10	< 0.10
Aliphatic TPH >C10-C12	N	1675	µg/l	0.10	< 0.10	< 0.10
Aliphatic TPH >C12-C16	N	1675	µg/l	0.10	< 0.10	< 0.10
Aliphatic TPH >C16-C21	N	1675	µg/l	0.10	< 0.10	< 0.10
Aliphatic TPH >C21-C35	N	1675	µg/l	0.10	< 0.10	< 0.10
Aliphatic TPH >C35-C44	N	1675	µg/l	0.10	< 0.10	< 0.10
Total Aliphatic Hydrocarbons	N	1675	µg/l	5.0	< 5.0	< 5.0
Aromatic TPH >C5-C7	N	1675	µg/l	0.10	< 0.10	< 0.10
Aromatic TPH >C7-C8	N	1675	µg/l	0.10	< 0.10	< 0.10
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Aromatic TPH >C35-C44	N	1675	µg/l	0.10	< 0.10	< 0.10
Total Aromatic Hydrocarbons	N	1675	µg/l	5.0	< 5.0	< 5.0
Total Petroleum Hydrocarbons	N	1675	µg/l	10	< 10	< 10
Naphthalene	U	1700	µg/l	0.10	< 0.10	< 0.10
Acenaphthylene	U	1700	µg/l	0.10	< 0.10	< 0.10
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Project: Pickhill Lane, Wrexham

Client: Pam Brown Associates		Chemtest Job No.:		16-06915	16-06915	
Quotation No.:		Chemtest Sample ID.:		271643	271644	
		Client Sample ID.:		BH2A	BH4	
		Sample Type:		WATER	WATER	
		Bottom Depth (m):				
		Date Sampled:		21-Mar-2016	21-Mar-2016	
Determinand	Accred.	SOP	Units	LOD		
Fluorene	U	1700	µg/l	0.10	< 0.10	< 0.10
Phenanthrene	U	1700	µg/l	0.10	< 0.10	< 0.10
Anthracene	U	1700	µg/l	0.10	< 0.10	< 0.10
Fluoranthene	U	1700	µg/l	0.10	< 0.10	< 0.10
Pyrene	U	1700	µg/l	0.10	< 0.10	< 0.10
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