SP ASSOCIATES Geoenvironmental & Geotechnical Services
1 Market Place, Warwick, CV34 4SA

tel: 07831 389024
email: spassociates@hotmail.co.uk

30th October 2025

Report: S1916-3

FI Construction,
Canal Mill,
Botany Brow,
Chorley,
PR6 9AF

Dear Sirs,

Re: **Remediation Statement – Proposed Industrial Development, Oak Road, Wrexham Industrial Estate**

Background

SP Associates have carried out a Geo-environmental Assessment at FI Construction's proposed industrial development site located off Oak Road, Wrexham Industrial Estate, LL13 9RG. The resulting report (S1916-2) was predicated upon an intrusive ground investigation comprising 5No. window sampler boreholes, 2No. with standpipe instrumentation, and 3No. trial pits the locations of which are shown on Figure 2. In addition, selected soil samples were subject to a chemical testing programme for a range of potential contaminants of concern and the borehole standpipes were monitored for ground gas and depth to groundwater on three occasions. This report details the findings of the investigation and defines a remediation strategy and validation protocol based upon those findings.

SOIL

Ground Conditions

The boreholes and trial pits identified the presence of between 0.70m and 1.5m of superficial Made Ground deposits. The formation is a mixture of cohesive and granular deposits consisting of firm, clay with angular gravel of shale, concrete and brick and, loose sand with gravel of concrete, brick, shale and mudstone. In Borehole 5, a dense layer of sandstone gravel was encountered from 1.0m to 1.5m depth.

Natural deposits of Glacial Till were encountered beneath the superficial Made Ground formation to the termination depths of each of the boreholes and trial pits. The formation predominantly comprised firm, becoming stiff, brown and grey, occasionally gravelly clay.

Borehole and trial pit logs are eclosed within Appendix A.

Soil Chemistry

The Initial CSM and Preliminary Risk Assessment had identified that the site's development and land use history could potentially have resulted in some contaminant impact to soil. Consequently, a soil testing programme predicated upon the following test suite was implemented:

Asbestos, phenols, heavy metals, inorganic chemicals, Speciated Petroleum Hydrocarbons, PAHs, BTEX.

Laboratory test results are enclosed within Appendix B.

Human Health Risk Assessment

In terms of risk to human health, the chemical test data enclosed within Appendix B have been compared to the Tier 1 chemical screening criteria for an industrial/commercial land use on Table 2. Reference to that table shows that none of the analytes within the test suite are present at concentrations that exceed their Tier 1 screening chemical acceptance criteria values for an industrial land use. The risk to human health from contaminants of concern within the near surface site soil can be considered therefore to be low.

Proposed Soil Remedial Work

The risk screening exercise has shown that there is a low risk to human health from potential contaminants of concern within the near surface formation and consequently there are no proposals to implement soil remedial measures at the development stage.

However, groundworkers are likely to come into contact with the near surface formation during the preliminary stages of the development process and it is recommended that they are all furnished with appropriate PPE to mitigate any potential short term risks from any as yet unidentified soil or air borne contaminants. In addition, an unexpected contaminant protocol should be put in place whereby any soils or materials that could be considered to be contaminated through visual or olfactory evidence are brought to the attention of the Engineer for further consideration.

CONTROLLED WATERS

Controlled Waters Risk Assessment

The Conceptual Site Model indicated that there was a potential link between potential contaminants of concern leaching out of the site soils and their impact upon the Principal Aquifer. However, laboratory testing for a range of potential contaminants of concern on samples of the Made Ground formation has failed to identify any significantly elevated concentrations of analytes and although leaching tests have not been carried out it is considered that the low concentrations of potential contaminants of concern measured in the soil will reduce the risk of leachate being generated to acceptably low levels.

In addition, the standpipes installed within Boreholes 1 and 3 have remained dry indicating that the unsaturated zone above the permanent groundwater table, which is likely to lie at depth within the Kinnerton Sandstone, is relatively large. As such, any leachate generated within the Made Ground formation will likely to be reduced in concentration through the natural processes of advection, dispersal and dilution.

Proposed Remedial Work

It is considered based upon the above evidence that the risks to controlled waters from contaminant impact is low and no remedial measures are considered to be necessary.

GROUND GAS

Ground Gas Risk Assessment

Table 1 shows that carbon dioxide was measured within the borehole standpipes at a maximum concentration of 1.6% whilst methane was effectively absent.

The ground gas situation has been assessed using the methodology outlined in CIRIA Publication C665 'Assessing risks posed by hazardous ground gases to buildings'. Under that methodology a gas screening value (GSV) has been calculated carbon dioxide by factoring the maximum measured gas concentration with the maximum measured gas flow rate. The results of that exercise are as follows:

Carbon Dioxide GSV 0.0016l/hr.

Comparing this GSV with screening values in Table 8.5 of C665 a Characteristic Situation of 1 is obtained for the site which classifies it as very low risk whereby no special precautions are required with respect to methane and carbon dioxide. Table 8.5 does state that irrespective of GSV value if methane gas is present at concentrations in excess of 1% then consideration should be given to raising the Characteristic Situation to 2. However, in this particular case no such elevated methane concentrations have been encountered.

The Envirocheck Data report for the site contained within the Phase I study states that part of the site lies in an area where basic radon protection measures are required for new structures.

Proposed Remedial Work

The risk assessment has demonstrated that the site falls into Characteristic Situation 1 with respect to ground gas and consequently there are no proposals to adopt any carbon dioxide or methane related mitigation measures at the site. However, the environmental database has confirmed that part of the site lies in an area where basic radon protection measures are required for new structures.

The installation of basic radon protection measures should be carried out by qualified personnel and subject to a validation process by a qualified person.

ADDITIONAL WORK

The ground investigation on which this document is based was carried out before the site had been fully cleared of vegetation and scrub and consequently there are areas that have not been subject to drilling or trial pitting. It is recommended therefore that when the site has been cleared that these areas are appropriately investigated to complete the site geo-environmental database. Soil testing should include for an explosives suite and PCB testing along with the contaminant suite already adopted. In addition, the potential presence of buried structures and obstructions should be investigated initially by a GPR survey with follow up trial pitting. The additional investigative work should be preceded by the purchase of a detailed UXO report.

The resulting updated chemical and ground gas database should then be used to update and amend this document.

Faithfully

[redacted]

Steven Peters B.Sc., M.Sc., C.Eng.
Director

TABLES

Table 1
Proposed Industrial Development, Oak Road, Wrexham Industrial Estate

Gas and Groundwater Readings

Gas Readings

Date: 20/08/2025 Atmospheric Pressure: 1003mb (Falling)

BH	Gas Flow (l/hr)	Borehole Pressure (mb)	Methane (%vol)		Methane (%LEL)		Carbon Dioxide (%vol)		Oxygen (%vol)		Other Gases (ppm)	
			Peak	Steady	Peak	Steady	Peak	Steady	Peak	Steady	H2s	CO
1	<0.1	1	<0.1	<0.1	<2	<2	1.3	1.3	19.0	19.0	<1	<1
3	<0.1	2	<0.1	<0.1	<2	<2	1.5	1.5	18.7	18.7	<1	<1

Date: 29/08/2025 Atmospheric Pressure: 1008mb (Falling)

BH	Gas Flow (l/hr)	Borehole Pressure (mb)	Methane (%vol)		Methane (%LEL)		Carbon Dioxide (%vol)		Oxygen (%vol)		Other Gases (ppm)	
			Peak	Steady	Peak	Steady	Peak	Steady	Peak	Steady	H2s	CO
1	<0.1	1	<0.1	<0.1	<2	<2	1.4	1.4	18.4	18.4	<1	<1
3	<0.1	2	<0.1	<0.1	<2	<2	1.6	1.6	18.3	18.3	<1	<1

Date: 08/09/2025 Atmospheric Pressure: 1009mb (Rising)

BH	Gas Flow (l/hr)	Borehole Pressure (mb)	Methane (%vol)		Methane (%LEL)		Carbon Dioxide (%vol)		Oxygen (%vol)		Other Gases (ppm)	
			Peak	Steady	Peak	Steady	Peak	Steady	Peak	Steady	H2s	CO
1	<0.1	2	<0.1	<0.1	<2	<2	1.6	1.6	18.4	18.4	<1	<1
3	<0.1	2	<0.1	<0.1	<2	<2	1.5	1.5	18.6	18.6	<1	<1

Groundwater Readings (mbgl)

BH	20/08/2025	29/08/2025	08/09/2025
1	dry	dry	dry
3	dry	dry	dry

Gas and groundwater monitoring undertaken by: P. Cosgrove
Equipment used: GA2000 Plus, Flow pod S/N 419
Steady concentrations are measured for up to 5 minutes.

Table 2
Proposed Industrial Development. Oak Road, Wrexham Industrial Estate

Human Health Screening Values for a Commercial/Industrial Land Use versus Measured Values - Soils

Determinant	Final screening chemical acceptance criteria mg/kg	Derivation Tool	Range of Measured Values	No. of Values > acceptance criteria (location)
Asbestos	Presence		None	0
Phenols	1500	LQM/CIEH:S4UL	<0.1	0
US EPA Priority PAHs				
Acenapthene	97000	LQM/CIEH:S4UL	<0.1 – 1.9	0
Acenapthylene	97000	LQM/CIEH:S4UL	<0.1	0
Anthracene	54000	LQM/CIEH:S4UL	<0.1 – 4.3	0
Benzo(a)Anthracene	170	LQM/CIEH:S4UL	<0.1 – 5.5	0
Benzo (a)pyrene	77	DEFRA:C4SL	<0.1 – 4.2	0
Benzo (b)flouranthene	44	LQM/CIEH:S4UL	<0.1 – 5.2	0
Benzo(k)flouranthene	1200	LQM/CIEH:S4UL	<0.1 – 1.9	0
Benzo(g,h,i) perylene	4000	LQM/CIEH:S4UL	<0.1 – 1.9	0
Chrysene	350	LQM/CIEH:S4UL	<0.1 – 4.7	0
Di-benzo(a,h)anthracene	3.6	LQM/CIEH:S4UL	<0.1- 0.32	0
Indeno)1,2,3-cd)pyrene	510	LQM/CIEH:S4UL	<0.1 – 2.3	0
Flouranthene	23000	LQM/CIEH:S4UL	<0.1 - 16	0
Flourene	68000	LQM/CIEH:S4UL	<0.1 – 1.8	0
Napthalene	400	LQM/CIEH:S4UL	<0.1 – 0.19	0
Phenanthrene	22000	LQM/CIEH:S4UL	<0.1 - 17	0
Pyrene	64000	LQM/CIEH:S4UL	<0.1 - 11	0
Heavy Metals/ Metalloids				
Arsenic	640	DEFRA C4SL	3.2 - 11	0
Cadmium	420	DEFRA C4SL	<0.10– 0.43	0
Chromium	86000	LQM/CIEH:S4UL	19 - 41	0
Copper	68000	LQM/CIEH:S4UL	9.2 - 22	0
Lead	1100	DEFRA C4SL	14 - 37	0
Mercury	1100	LQM/CIEH:S4UL	<0.05	0
Nickel	980	LQM/CIEH:S4UL	16 - 43	0
Selenium	12000	LQM/CIEH:S4UL	<0.25 – 1.1	0
Vanadium	9000	LQM/CIEH:S4UL	15 – 40	0
Zinc	730000	LQM/CIEH:S4UL	`17 - 86	0

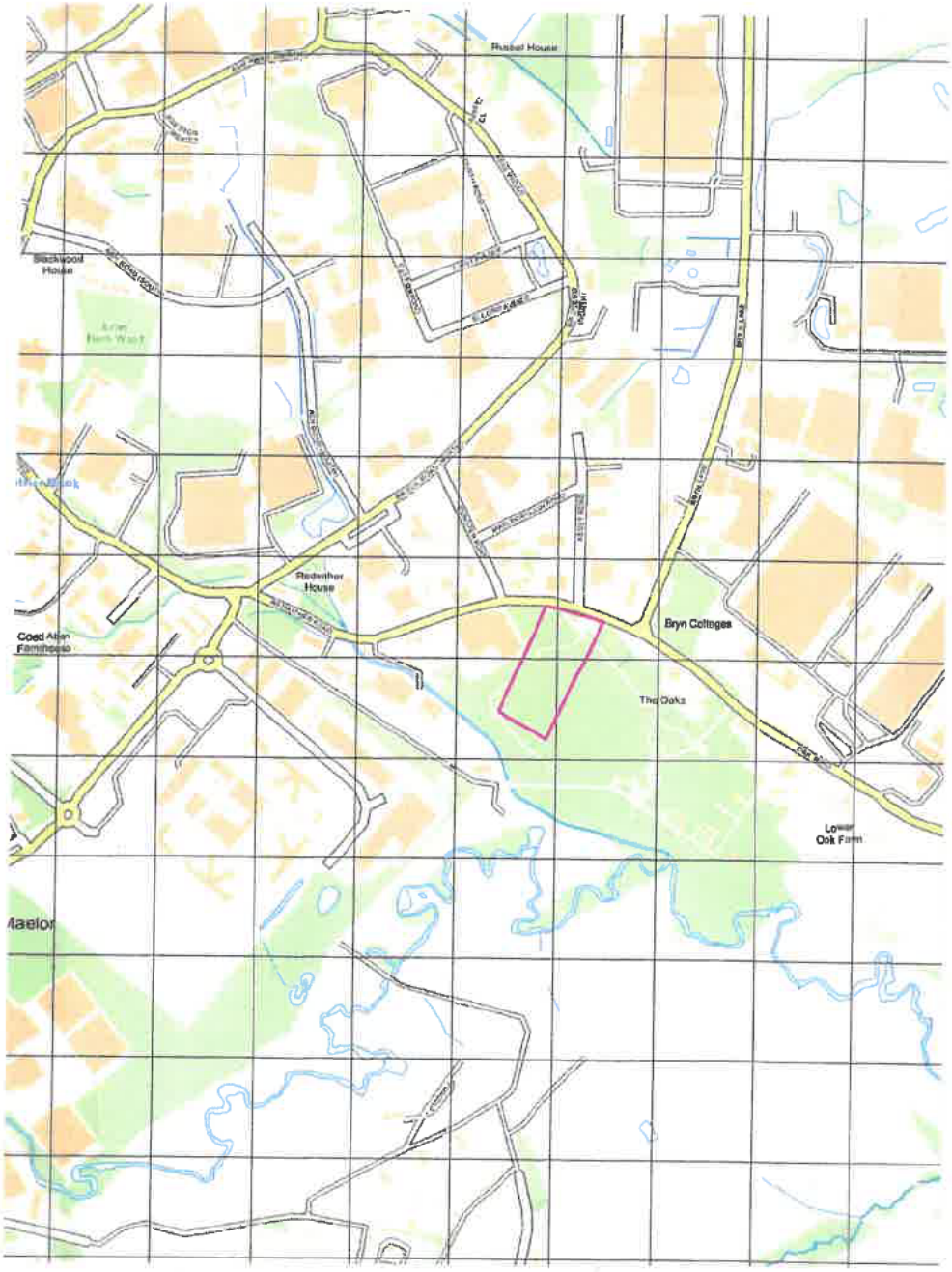
Petroleum Hydrocarbons				
TPH Aliphatic C5-6	5900	LQM/CIEH:S4UL	<0.05	0
C6-8	7800	LQM/CIEH:S4UL	<0.05	0
C8-10	4800	LQM/CIEH:S4UL	<0.05	0
C10-12	23000	LQM/CIEH:S4UL	<2 – 4.5	0
C12-16	82000	LQM/CIEH:S4UL	<1 – 2.5	0
C16-21	1700000	LQM/CIEH:S4UL	<2	0
C21-35	170000	LQM/CIEH:S4UL	<3 - 19	0
C35-44	1700000	LQM/CIEH:S4UL	<10	0
TPH Aromatic C5-7	46000	LQM/CIEH:S4UL	<0.05	0
C7-8	110000	LQM/CIEH:S4UL	<0.05	0
C8-10	8100	LQM/CIEH:S4UL	<0.05	0
C10-12	28000	LQM/CIEH:S4UL	7.3 – 9.1	0
C12-16	37000	LQM/CIEH:S4UL	<1	0
C16-21	28000	LQM/CIEH:S4UL	2.3 – 5.0	0
C21-35	28000	LQM/CIEH:S4UL	5.6 - 27	0
C35-44	28000	LQM/CIEH:S4UL	<1 – 9.5	0
BTEX			*	

1% SOM adopted for SGV calculation

Copyright Land Quality Management Ltd., Publication Number S4U:L 3458

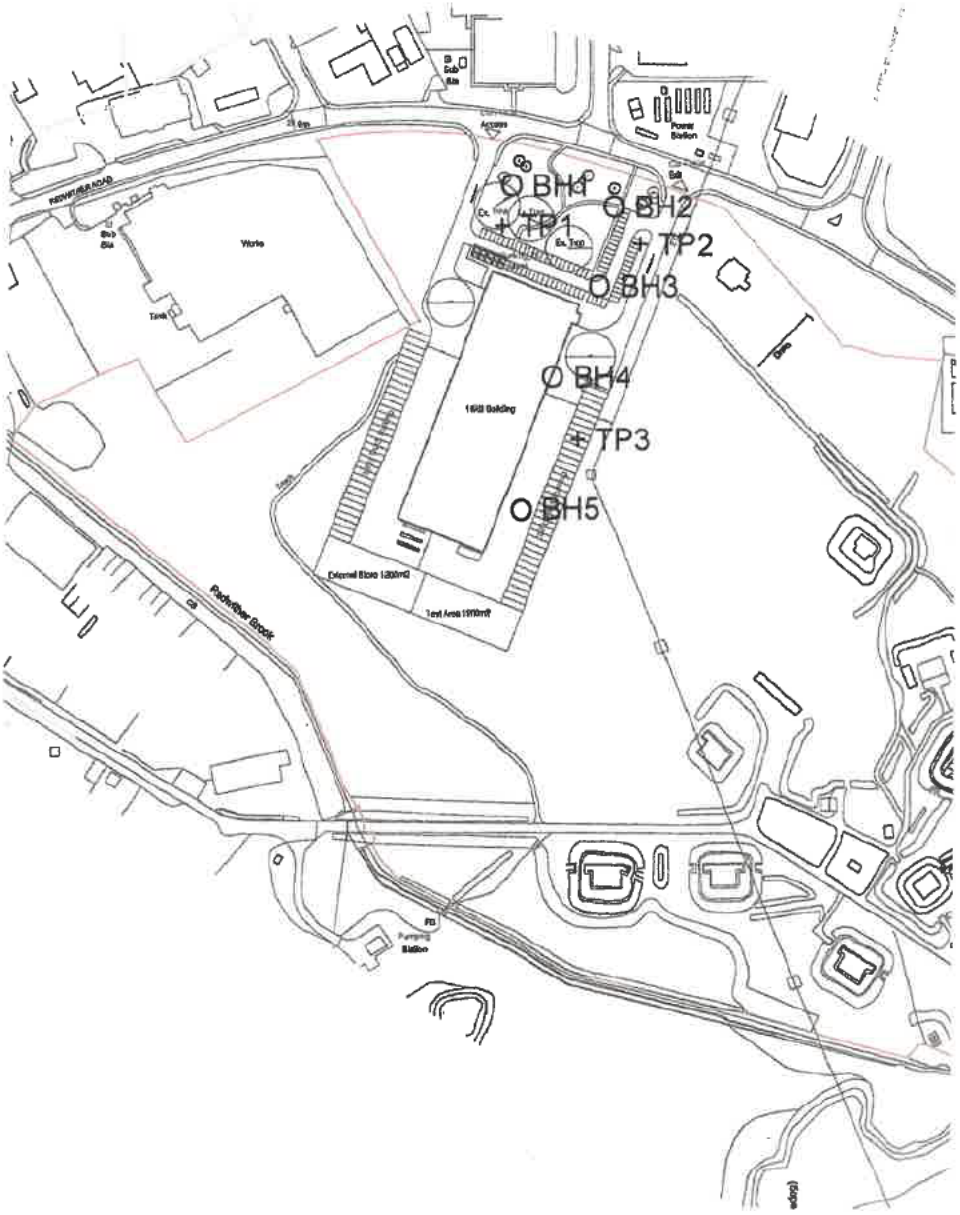
*Below Detection Limit

FIGURES



Site Location Plan

SP ASSOCIATES	Report: **S1916**	Site: **Oak Road, Wrexham Industrial Estate**	Figure: **1**



Borehole and Trial Pit Location Plan

SP ASSOCIATES	Report: S1916-2	Site: Oak Road, Wrexham Industrial Estate	Figure: 2

APPENDIX A

Borehole and Trial Pit Logs

SP ASSOCIATES Geoenvironmental & Geotechnical Servies
1 Market Place, Warwick, CV34 4SA
tel: 01926 494271
email: spassociates@hotmail.co.uk

Site	Number
Oak Road, Wtexham Industrial Estate	BH1

Excavation Method	Dimensions	Ground Level (mOD)	Client	Job Number
Drive-in Windowless Sampler			FI Construction	S1916-1
	Location	**Dates** 13/08/2025	**Engineer**	**Sheet** 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.00-1.00	UD1				0.10	Tarmacadam fragments		
					(0.40)	Firm, brown CLAY with occasional fine, angular gravel of shale (Made Ground)		
					0.50			
					(0.30)	Firm, brown CLAY with occasional fine to medium, angular gravel of concrete (Made Ground)		
					0.80			
1.00-1.45 1.00-2.00	SPT N=8 UD2		3,3/2,1,2,3			Firm to stiff, brown CLAY (Glacial Till)		
					(1.20)			
2.00-2.45 2.00-3.00	SPT N=29 UD3		2,3/6,6,7,10		2.00	Stiff, brown CLAY with occasional pockets of grey clay (Glacial Till)		
					(1.45)			
3.00-3.45	SPT N=35		2,4/6,8,10,11					
					3.45	Complete at 3.45m		

Remarks

Scale (approx)	Logged By
1:50	PVC

Figure No. S1916-1.BH1

Produced by the GEOtechnical DAtabase SYstem (GEODASY) © all rights reserved

SP ASSOCIATES Geoenvironmental & Geotechnical Servies
1 Market Place, Warwick, CV34 4SA
tel: 01926 494271
email: spassociates@hotmail.co.uk

Site	Number
Oak Road, Wtexham Industrial Estate	BH2

Excavation Method	Dimensions	Ground Level (mOD)	Client	Job Number
Drive-in Windowless Sampler			FI Construction	S1916-1
	Location	**Dates** 13/08/2025	**Engineer**	**Sheet** 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.00-1.00	UD1				(0.20) 0.20	Loose, brown, clayey SAND with some fine to medium, angular to sub-rounded gravel and fine roots (Made Ground)		
					(0.30) 0.50	Firm, brown CLAY with some fine, angular gravel of shale and concrete (Made Ground)		
					(0.50) 1.00	Loose, brown SAND with abundant fine to medium, angular gravel of shale and mudstone (Made Groind)		
1.00-1.45 1.00-2.00	SPT N=13 UD2		2,3/3,3,3,4			Firm to stiff, brown CLAY (Glacial Till)		
					(1.00) 2.00			
2.00-2.45 2.00-3.00	SPT N=32 UD3		3,5/6,8,8,10			Stiff brown CLAY with occasional pockets of grey clay (Glacial Till)		
					(1.45) 3.45			
3.00-3.45	SPT N=38		3,6/9,9,9,11			Complete at 3.45m		

Remarks

Scale (approx)	Logged By
1:50	PVC

Figure No. S1916-1.BH2

Produced by the GEOtechnical DAtabase SYstem (GEODASY) © all rights reserved

SP ASSOCIATES Geoenvironmental & Geotechnical Servies
1 Market Place, Warwick, CV34 4SA
tel: 01926 494271
email: spassociates@hotmail.co.uk

Site	Number
Oak Road, Wtexham Industrial Estate	BH3

Excavation Method	Dimensions	Ground Level (mOD)	Client	Job Number
Drive-in Windowless Sampler			FI Construction	S1916-1
	Location	**Dates** 13/08/2025	**Engineer**	**Sheet** 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.00-1.00	UD1				(0.20) 0.20	Loose, dark brown, silty SAND with occasional fine to medium, angular gravel of brick (Made Ground)		
					(0.60)	Firm to stiff, friable, brown, slightly sandy CLAY with some fine to medium, angular gravel of brick and concrete (Made Ground)		
					0.80 (0.20) 1.00	Loose, red brown, fine to coarse, angular GRAVEL of sandstone (Made Ground)		
1.00-1.45	SPT N=11		2,2/2,2,3,4					
1.00-2.00	UD2					Firm to stiff, brown CLAY (Glacial Till)		
					(1.00)			
2.00-2.45	SPT N=31		3,5/5,7,8,11		2.00	Stiff, brown mottled grey CLAY (Glacial Till)		
2.00-3.00	UD3							
					(1.45)			
3.00-3.45	SPT N=37		3,4/7,8,10,12					
					3.45	Complete at 3.45m		

Remarks

Scale (approx)	Logged By
1:50	PVC

Figure No. S1916-1.BH3

Produced by the GEOtechnical DAtabase SYstem (GEODASY) © all rights reserved

SP ASSOCIATES Geoenvironmental & Geotechnical Servies
1 Market Place, Warwick, CV34 4SA
tel: 01926 494271
email: spassociates@hotmail.co.uk

Site	Number
Oak Road, Wtexham Industrial Estate	BH4

Excavation Method	Dimensions	Ground Level (mOD)	Client	Job Number
Drive-in Windowless Sampler			FI Construction	S1916-1
	Location	**Dates** 13/08/2025	**Engineer**	**Sheet** 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.00-1.00	UD1				(0.20) 0.20	Loose, brown clayey SAND with occasional fine to medium, angular to sub-rounded gravel (Made Ground)		
					(0.50)	Firm to stiff, brown, slightly sandy CLAY with occasional fine to medium, angular gravel of shale and concrete (Made Ground)		
					0.70	Firm to stiff, brown CLAY (Glacial Till)		
1.00-1.45 1.00-2.00	SPT N=8 UD2		2,2/2,2,2,2		(1.30)			
2.00-2.45 2.00-3.00	SPT N=21 UD3		2,3/4,5,6,6		2.00	Stiff, brown CLAY with a grey mottle (Glacial Till)		
					(1.00)			
3.00-3.45 3.00-4.00	SPT N=25 UD4		3,3/4,7,7,7		3.00	Stiff, brown CLAY (Glacial Till)		
					(1.45)			
4.00-4.45	SPT N=36		5,6/7,9,10,10		4.45	Complete at 4.45m		

Remarks

Scale (approx)	Logged By
1:50	PVC

Figure No. S1916-1.BH4

Produced by the GEOtechnical DAtabase SYstem (GEODASY) © all rights reserved

SP ASSOCIATES Geoenvironmental & Geotechnical Servies
1 Market Place, Warwick, CV34 4SA
tel: 01926 494271
email: spassociates@hotmail.co.uk

Site	Number
Oak Road, Wtexham Industrial Estate	BH5

Excavation Method	Dimensions	Ground Level (mOD)	Client	Job Number
Drive-in Windowless Sampler			FI Construction	S1916-1
	Location	**Dates** 13/08/2025	**Engineer**	**Sheet** 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.00-1.00	UD1				(0.30) 0.30	Firm to stiff, friable, beige brown CLAY with occasional fine to medium, angular to sub-rounded gravel and roots (Made Ground)		
					(0.70)	Firm to stiff, friable, brown CLAY with occasional fine to coarse, angular to sub-rounded gravel of quartz and brick (Made Ground)		
1.00-1.45 1.00-2.00	SPT N=31 UD2		2,6/6,7,7,11		1.00 (0.50)	Dense, beige, fine to coarse, clayey, angular GRAVEL of sandstone (Made Ground)		
					1.50 (0.50)	Firm, fruable, brown CLAY with some fine to coarse, sub-angulat gravel of sandstone (Glacial Till)		
2.00-2.45 2.00-3.00	SPT N=7 UD3		2,2/1,2,2,2		2.00 (1.00)	Firm, brown, sandy CLAY (Glacial Till)		
3.00-3.45 3.00-4.00	SPT N=14 UD4		2,2/2,3,4,5		3.00 (1.45)	Stiff, brown mottled grey CLAY (Glacial Till)		
4.00-4.45	SPT N=36		2,3/7,9,10,10		4.45	Complete at 4.45m		

Remarks

Scale (approx)	Logged By
1:50	PVC

Figure No. S1916-1.BH5

Produced by the GEOtechnical DAtabase SYstem (GEODASY) © all rights reserved

SP ASSOCIATES Geoenvironmental & Geotechnical Servies
1 Market Place, Warwick, CV34 4SA
tel: 01926 494271
email: spassociates@hotmail.co.uk

Site	Trial Pit Number
Oak Road, Wtexham Industrial Estate	TP1

Excavation Method	Dimensions	Ground Level (mOD)	Client	Job Number
Trial Pit			FI Construction	S1916-1
	Location	**Dates** 20/08/2025	**Engineer**	**Sheet** 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
					(0.60)	Firm, brown CLAY with occasional angular gravel of shale and concrete (Made Ground)		
					0.60	Firm to stiff, brown CLAY with occasional pockets of grey clay (Glacial Till)		
					(1.30)			
					1.90	Complete at 1.90m		

Plan

Remarks

Scale (approx)	Logged By	Figure No.
1:50	SMP	S1916-1.TP1

Produced by the GEOtechnical DAtabase SYstem (GEODASY) © all rights reserved

SP ASSOCIATES Geoenvironmental & Geotechnical Servies
1 Market Place, Warwick, CV34 4SA
tel: 01926 494271
email: spassociates@hotmail.co.uk

Site	Trial Pit Number
Oak Road, Wtexham Industrial Estate	TP2

Excavation Method	Dimensions	Ground Level (mOD)	Client	Job Number
Trial Pit			FI Construction	S1916-1
	Location	**Dates** 20/08/2025	**Engineer**	**Sheet** 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
					(0.80)	Firm to stiff, friable, brown, slightly sandy CLAY with some medium to coarse, angular gravel of brick and concrete (Made Ground)		
					0.80	*Firm to stiff, brown CLAY (Glacial Till)*		
					(1.00)			
					1.80	Complete at 1.80m		

Plan

Remarks

Scale (approx)	Logged By	Figure No.
1:50	SMP	S1916-1.TP2

Produced by the GEOtechnical DAtabase SYstem (GEODASY) © all rights reserved

SP ASSOCIATES Geoenvironmental & Geotechnical Servies
1 Market Place, Warwick, CV34 4SA
tel: 01926 494271
email: spassociates@hotmail.co.uk

Site	Trial Pit Number
Oak Road, Wtexham Industrial Estate	TP3

Excavation Method	Dimensions	Ground Level (mOD)	Client	Job Number
Trial Pit			FI Construction	S1916-1
	Location	**Dates** 20/08/2025	**Engineer**	**Sheet** 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
					(1.00) 1.00	Firm to stiff, friable, brown CLAY with occasional fine to coarse, angular to sub-rounded gravel of quartz and brick (Made Ground)		
					(0.90) 1.90	Firm, brown, sandy CLAY (Glacial Till)		
						Complete at 1.90m		

Plan

Remarks

Scale (approx)	Logged By	Figure No.
1:50	SMP	S1916-1.TP3

Produced by the GEOtechnical DAtabase SYstem (GEODASY) © all rights reserved

APPENDIX B

Laboratory Test Results

eurofins | Chemtest
Eurofins Chemtest Ltd
Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070
Email: cs@etuki.eurofins.com

UKAS TESTING 2183

MCERTS

Final Report

Report No.:	25-28273-1
Initial Date of Issue:	11-Sep-2025
Re-Issue Details:	
Client	*SP Associates Ltd*
Client Address:	*1 Market Place* *Warwick* *Warwickshire* *CV34 4SA*
Contact(s):	*Steven Peters*
Project	*51916 OAK ROAD, WREXHAM IND EST*

Quotation No.:	*Q24-35284*	**Date Received:**	29-Aug-2025
Order No.:	51916-1	**Date Instructed:**	29-Aug-2025
No. of Samples:	*10*		
Turnaround (Wkdays):	10	**Results Due:**	11-Sep-2025
Date Approved:	11-Sep-2025		

Approved By:

[redacted]

Details: David Smith, Technical Director

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

Results - Soil

Project: 51916 OAK ROAD, WREXHAM IND EST

Client: SP Associates Ltd						**Chemtest Job No.:**	25-28273	25-28273	25-28273	25-28273	25-28273	25-28273	25-28273	25-28273	25-28273
Quotation No.: Q24-35284						**Chemtest Sample ID.:**	2021166	2021167	2021168	2021169	2021170	2021171	2021172	2021173	2021174
						Client Reference:	*BH1*	*BH1*	*BH2*	*BH2*	*BH3*	*BH3*	*BH4*	*BH4*	*BH5*
						Sample Type:	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
						Top Depth (m):	*0.10*	*0.50*	*0.00*	*0.20*	*0.00*	*0.20*	*0.00*	*0.20*	*0.00*
						Bottom Depth (m):	*0.50*	*0.80*	*0.20*	*0.50*	*0.20*	*0.80*	*0.20*	*0.70*	*0.30*
						Date Sampled:	*22-Aug-2025*	*22-Aug-2025*	*22-Aug-2025*	*22-Aug-2025*	*22-Aug-2025*	*22-Aug-2025*	*22-Aug-2025*	*22-Aug-2025*	*22-Aug-2025*
						Asbestos Lab:	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	**HWOL Code**	**Accred.**	**SOP**	**Units**	**LOD**										
ACM Type		N	2192		N/A		-	-	-	-	-	-	-	-	-
Asbestos Identification		U	2192		N/A		No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
Moisture		N	2030	%	0.020		14	14	7.1	6.2	5.5	5.9	7.5	9.4	9.2
Soil Colour		N	2030		N/A		Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material		N	2030		N/A		Stones and Roots	Stones	Stones, Roots and Wood	Stones	Stones, Roots and brick	Stones and Roots	Stones and Roots	Roots, Stones and Wood	Stones and Roots
Soil Texture		N	2030		N/A		Loam	Clay	Loam	Clay	Loam	Clay	Loam	Loam	Loam
pH at 20C		M	2010		4.0		8.1	8.6	7.6	8.4	8.1	8.3	7.6	8.0	7.5
Sulphate (2:1 Water Soluble) as SO4		M	2120	g/l	0.010		0.016	0.021	< 0.010	< 0.010	0.034	0.011	0.039	0.023	0.012
Arsenic		M	2455	mg/kg	0.5		11	7.5	4.4	7.8	4.9	7.9	3.2	5.8	6.9
Cadmium		M	2455	mg/kg	0.10		0.43	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chromium		M	2455	mg/kg	0.5		40	32	19	31	19	41	15	24	25
Copper		M	2455	mg/kg	0.50		22	17	14	17	12	22	9.2	14	17
Mercury		M	2455	mg/kg	0.05		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Nickel		M	2455	mg/kg	0.50		41	33	20	35	20	43	16	28	38
Lead		M	2455	mg/kg	0.50		33	21	28	14	15	20	34	23	20
Selenium		M	2455	mg/kg	0.25		1.1	0.69	0.37	0.45	< 0.25	0.50	< 0.25	0.29	0.40
Vanadium		U	2455	mg/kg	0.5		40	34	19	31	19	39	15	23	24
Zinc		M	2455	mg/kg	0.50		86	58	67	53	42	72	53	59	50
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25		< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL #1	M	2690	mg/kg	2.00		< 2.0	< 2.0	3.3	3.4	4.5	2.8	4.1	3.2	4.1
Aliphatic EPH >C12-C16 MC	EH_2D_AL #1	M	2690	mg/kg	1.00		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	2.5	< 1.0	< 1.0
Aliphatic EPH >C16-C21 MC	EH_2D_AL #1	M	2690	mg/kg	2.00		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Aliphatic EPH >C21-C35 MC	EH_2D_AL #1	M	2690	mg/kg	3.00		< 3.0	3.3	7.2	< 3.0	19	5.6	5.6	5.7	9.3
Aliphatic EPH >C35-C40 MC	EH_2D_AL #1	N	2690	mg/kg	10.00		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL #1	M	2690	mg/kg	5.00		< 5.0	< 5.0	11	< 5.0	25	10	13	10	14
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL #1	N	2690	mg/kg	10.00		< 10	< 10	11	< 10	26	11	13	11	15
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25		< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR #1	U	2690	mg/kg	1.00		8.9	8.2	9.1	8.0	8.1	7.3	7.5	7.5	8.1
Aromatic EPH >C12-C16 MC	EH_2D_AR #1	U	2690	mg/kg	1.00		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic EPH >C16-C21 MC	EH_2D_AR #1	U	2690	mg/kg	2.00		5.0	3.9	8.1	2.8	6.4	3.3	4.1	4.0	3.0

Results - Soil

Project: 51916 OAK ROAD, WREXHAM IND EST

Client: SP Associates Ltd			**Chemtest Job No.:**			25-28273	25-28273	25-28273	25-28273	25-28273	25-28273	25-28273	25-28273	25-28273
Quotation No.: Q24-35284			**Chemtest Sample ID.:**			2021166	2021167	2021168	2021169	2021170	2021171	2021172	2021173	2021174
			Client Reference:			*BH1*	*BH1*	*BH2*	*BH2*	*BH3*	*BH3*	*BH4*	*BH4*	*BH5*
			Sample Type:			*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
			Top Depth (m):			*0.10*	*0.50*	*0.00*	*0.20*	*0.00*	*0.20*	*0.00*	*0.20*	*0.00*
			Bottom Depth (m):			*0.50*	*0.80*	*0.20*	*0.50*	*0.20*	*0.80*	*0.20*	*0.70*	*0.30*
			Date Sampled:			*22-Aug-2025*	*22-Aug-2025*	*22-Aug-2025*	*22-Aug-2025*	*22-Aug-2025*	*22-Aug-2025*	*22-Aug-2025*	*22-Aug-2025*	*22-Aug-2025*
			Asbestos Lab:			DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	**HWOL Code**	**Accred.**	**SOP**	**Units**	**LOD**									
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	8.4	10	27	5.6	56	9.3	31	19	33
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	< 1.0	1.5	4.0	< 1.0	9.5	2.2	2.7	1.2	2.8
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	22	22	44	16	71	20	43	31	44
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	23	24	48	17	81	22	46	32	47
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	26	26	55	21	97	30	56	41	59
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	27	28	60	21	110	33	58	43	62
Organic Matter		M	2625	%	0.40	1.8	0.95	7.4	0.55	4.5	0.80	7.0	1.3	3.2
Total Organic Carbon		M	2625	%	0.20	1.1	0.55	4.3	0.32	2.6	0.46	4.0	0.73	1.8
Benzene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
m & p-Xylene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Naphthalene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	0.19	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	1.9	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	1.8	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	0.27	0.66	0.16	17	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Anthracene		M	2800	mg/kg	0.10	0.10	0.19	< 0.10	4.3	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluoranthene		M	2800	mg/kg	0.10	0.51	1.7	0.43	16	< 0.10	0.13	0.14	< 0.10	< 0.10
Pyrene		M	2800	mg/kg	0.10	0.46	1.7	0.37	11	< 0.10	0.16	0.15	< 0.10	< 0.10
Benzo[a]anthracene		M	2800	mg/kg	0.10	0.31	0.87	0.28	5.5	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chrysene		M	2800	mg/kg	0.10	0.30	1.1	0.26	4.7	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	0.35	1.9	0.38	5.2	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	< 0.10	0.53	0.18	1.9	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]pyrene		M	2800	mg/kg	0.10	0.29	1.4	0.26	4.2	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	0.18	0.95	0.23	2.3	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	0.32	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	0.17	0.95	0.20	1.9	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Of 16 PAH's		N	2800	mg/kg	2.0	2.9	12	2.8	78	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Total Phenols		M	2920	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.16

Results - Soil

Project: 51915 OAK ROAD, WREXHAM IND EST

Client: SP Associates Ltd			**Chemtest Job No.:**			25-28273
Quotation No.: Q24-35284			**Chemtest Sample ID.:**			2021175
			Client Reference:			*BH5*
			Sample Type:			*SOIL*
			Top Depth (m):			*0.30*
			Bottom Depth (m):			*1.00*
			Date Sampled:			*22-Aug-2025*
			Asbestos Lab:			DURHAM
Determinand	**HWOL Code**	**Accred.**	**SOP**	**Units**	**LOD**	
ACM Type		N	2192		N/A	-
Asbestos Identification		U	2192		N/A	No Asbestos Detected
Moisture		N	2030	%	0.020	4.9
Soil Colour		N	2030		N/A	Brown
Other Material		N	2030		N/A	Stones
Soil Texture		N	2030		N/A	Loam
pH at 20C		M	2010		4.0	8.2
Sulphate (2:1 Water Soluble) as SO4		M	2120	g/l	0.010	< 0.010
Arsenic		M	2455	mg/kg	0.5	7.8
Cadmium		M	2455	mg/kg	0.10	< 0.10
Chromium		M	2455	mg/kg	0.5	26
Copper		M	2455	mg/kg	0.50	17
Mercury		M	2455	mg/kg	0.05	0.05
Nickel		M	2455	mg/kg	0.50	31
Lead		M	2455	mg/kg	0.50	37
Selenium		M	2455	mg/kg	0.25	0.46
Vanadium		U	2455	mg/kg	0.5	26
Zinc		M	2455	mg/kg	0.50	77
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10	< 0.10
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	< 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	2.5
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	< 1.0
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	< 2.0
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	< 3.0
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	< 10
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	5.5
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	< 10
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	< 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	7.4
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	2.3

Results - Soil

Project: 51916 OAK ROAD, WREXHAM IND EST

Client: SP Associates Ltd			**Chemtest Job No.:**			25-28273
Quotation No.: Q24-35284			**Chemtest Sample ID.:**			2021175
			Client Reference:			*BH5*
			Sample Type:			*SOIL*
			Top Depth (m):			*0.30*
			Bottom Depth (m):			*1.00*
			Date Sampled:			*22-Aug-2025*
			Asbestos Lab:			DURHAM
Determinand	**HWOL Code**	**Accred.**	**SOP**	**Units**	**LOD**	
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	15
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	< 1.0
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	25
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	25
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	< 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	30
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	31
Organic Matter		M	2625	%	0.40	0.97
Total Organic Carbon		M	2625	%	0.20	0.56
Benzene		M	2760	µg/kg	1.0	< 1.0
Toluene		M	2760	µg/kg	1.0	< 1.0
Ethylbenzene		M	2760	µg/kg	1.0	< 1.0
m & p-Xylene		M	2760	µg/kg	1.0	< 1.0
o-Xylene		M	2760	µg/kg	1.0	< 1.0
Naphthalene		M	2800	mg/kg	0.10	< 0.10
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	< 0.10
Fluorene		M	2800	mg/kg	0.10	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	< 0.10
Anthracene		M	2800	mg/kg	0.10	< 0.10
Fluoranthene		M	2800	mg/kg	0.10	0.12
Pyrene		M	2800	mg/kg	0.10	0.17
Benzo[a]anthracene		M	2800	mg/kg	0.10	< 0.10
Chrysene		M	2800	mg/kg	0.10	< 0.10
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	< 0.10
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	< 0.10
Benzo[a]pyrene		M	2800	mg/kg	0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	< 0.10
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	< 0.10
Total Of 16 PAH's		N	2800	mg/kg	2.0	< 2.0
Total Phenols		M	2920	mg/kg	0.10	< 0.10

Test Methods

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

Report Information

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

Text example All items indicated in italic font represent customer-supplied information that may not be independently verified by the laboratory

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

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

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

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

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

All results are expressed on a dry weight basis.

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

For all other tests the samples were dried at ≤ 30°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.

NEW_ASB	Eurofins Chemtest Limited, 11 Depot Road, Newmarket, CB8 0AL
DURHAM	Eurofins Chemtest Limited, Unit A North Wing, Prospect Business Park, Crookhall Lane, Consett, Co Durham, DH8 7PW

Sample Deviation Codes

As a result of any of the below deviations applying, the test results may be unreliable

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 - The required amount of sample for analysis was not received

H - Appropriate cooling measures were not taken for sample transportation

Sample Retention and Disposal

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

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

Charges may apply to extended sample storage.

Report Information

Water Sample Category Key for Accreditation

DW - Drinking Water (Non-Regulatory)
GW - Ground Water
LE - Land Leachate
NA - Not Applicable
PL - Prepared Leachate
PW - Processed Water
RE - Recreational Water
SA - Saline Water
SW - Surface Water
TE - Treated Effluent
TS - Treated Sewage
UL - Unspecified Liquid

Clean Up Codes

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

HWOL Acronym System

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

Asbestos Tests LOD = LOQ

Limit of Detection = Limit of Quantification for asbestos results only

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