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## Interpretive Ground Assessment & Infiltration Testing

At

Ysgol Thomas Ellis,  
Holyhead

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Client: Isle of Anglesey County Council

Reference: 31494-SUT-ZZ-00-RP-G-705-0001

Date: June 2021

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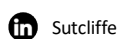
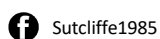
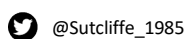
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# SUTCLIFFE INVESTIGATIONS

## Interpretive Ground Assessment & Infiltration Testing

### Document Control Sheet

Report Reference: 31494-SUT-ZZ-00-RP-G-705-0001




Issue: P01      Date: June 2021

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# 1 Introduction

## 1.1 Terms of Reference

Sutcliffe Investigations were instructed by Isle of Anglesey County Council (the “client”) to undertake investigations at Ysgol Thomas Ellis, Holyhead, Ynys Môn (NGR: 224520, 381710). Investigations included:

- 3No. soakaway tests complaint with *Soakaway Design Digest BRE365*
- 6No. Trial Holes
- Contamination Sampling

This report presents our soakaway test results, exploratory trial pit logs and contamination testing analysis.

With regards to the soakaway testing, this report is not an engineering design and the figures and calculations contained in the report should only be used by the Engineer.

Additionally, this report shall not be relied upon or transferred to any other parties without the express written authorisation of Sutcliffe Investigations. If an unauthorised third party comes into possession of this report, they rely on it at their peril and the authors owe them no duty of care and skill.

## 1.2 Site Location

The site is located at Ysgol Thomas Ellis, Holyhead, Ynys Môn. The site is approximately 1.2km south of Holyhead Town Centre. The National Grid Reference (NGR) for the centre of the site is 224520, 381710.

## 1.3 Scope of Works

In accordance with the Client’s instructions, the following was included in our brief for works:

- 3No. soakaway tests (*SA TP103, SA TP104 & SA TP106*) carried out on site using the BRE 365 methodology. The location was identified by the appointed Civil Engineer. The fieldwork was carried out on the 8<sup>th</sup> March 2021, the weather was dry during the site works.
- 6No. Trial Pits (TP101 – 106) carried out on the 8<sup>th</sup> March 2021, for the purpose of further identifying the underlying ground conditions.
- 5No. Samples taken for contamination testing purposes. Samples were taken to Envirolab Laboratory for analysis.

## 2 Fieldwork

### 2.1 General Site Description

The site is currently undeveloped following the demolition of the former on-site school. It is understood that the proposed development is for the construction of houses.

### 2.2 Geology

The British Geological Survey Sheet No 93 (Anglesey) indicates that the site geology consists of Devensian Till for the superficial deposits and South Stack Formation for the solid geology.

### 2.3 Ground Model

The ground conditions comprised of made ground over brown / grey, clayey, gravelly, fine-medium SAND with occasional clay pockets, large cobbles and boulders. Gravel was noted to be angular, fine-coarse natural stone.

TP101 and TP102 were terminated at a depth of 2.50m bgl, TP103 and TP106 at 1.30m bgl and TP104 at 1.20m bgl all on boulders and bedrock.

TP105 was terminated at a depth of 1.00m bgl on a possible former concrete foundation.

The trial pit logs for *TP101 – TP106* are presented in Appendix A.

A plan detailing the Trial Pit and Soakaway locations is presented in Appendix B.

### 3 Infiltration Test Methodology

#### 3.1 Soakaway Design Digest – BRE365

The BRE365 Digest on soakaway design allows for the design of trench soakaways as well as traditional square and circular soakaways.

The test to measure the soil infiltration rate is carried out in pits which are excavated to the full depth of the proposed soakaway. The trial pits are filled and allowed to drain to empty or near empty, three times, on the same day or on consecutive days.

The pit is considered full when the water level is the same as the proposed inlet invert. The time for the water level to fall from  $\frac{3}{4}$  full to  $\frac{1}{4}$  full is obtained and the soil infiltration rate is obtained from the following formula:

$$f = \frac{V_{p75-25}}{ap_{50} \times tp_{75-25}}$$

Where:  $f$  = soil infiltration rate (in this case expressed in  $1/m^2/minute$ )

$V_{p75-25}$  = the effective storage volume of water in the trial pit between 75% and 25% effective depth

$ap_{50}$  = the internal surface area of the trial pit up to 50% effective depth and excluding the base area;

$tp_{75-25}$  = the time for the water level to fall from 75% to 25% effective depth.

The infiltration rates detailed within this report is expressed as  $1/m^2/minute$ , which is a convenient rate to use. The BRE use a unit of  $m/sec$ , which is the value in  $1/m^2/minute$  divided by 60,000.

#### 3.2 Infiltration Test Results

Three infiltration tests were carried out on site at locations indicated by the Sutcliffe Engineer. Due to the inefficient infiltration characteristics of the ground at the excavation depths, the soakaway test comprised a single fill.

The full results of the infiltration tests are presented in *Appendix C*. Photographic logs of the excavations are presented in *Appendix D*.

However, the infiltration rates are summarised below:

Plate 1 - BRE 365 Infiltration Test Results – SA TP103

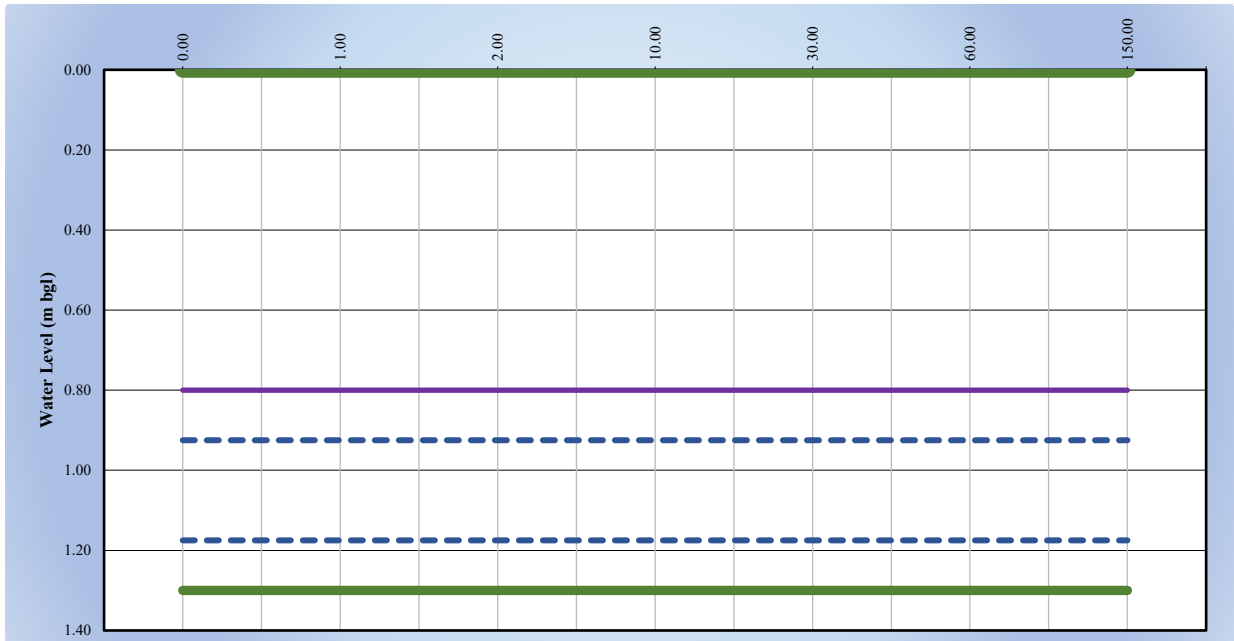


Plate 2 - BRE 365 Infiltration Test Results – SA TP104

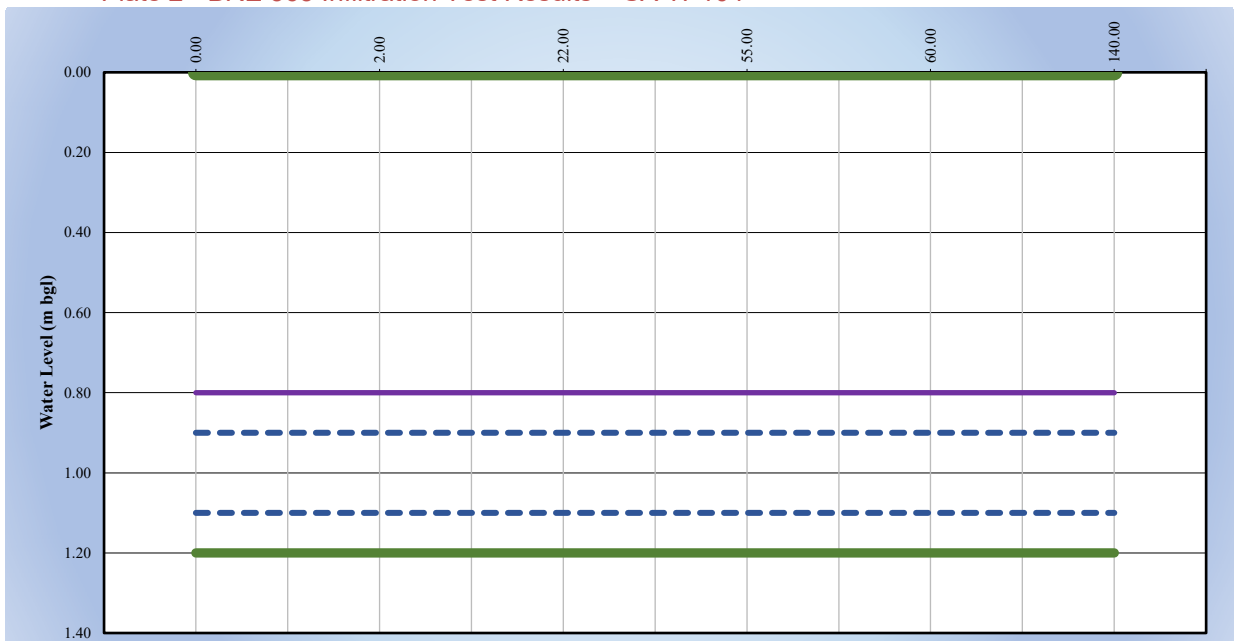
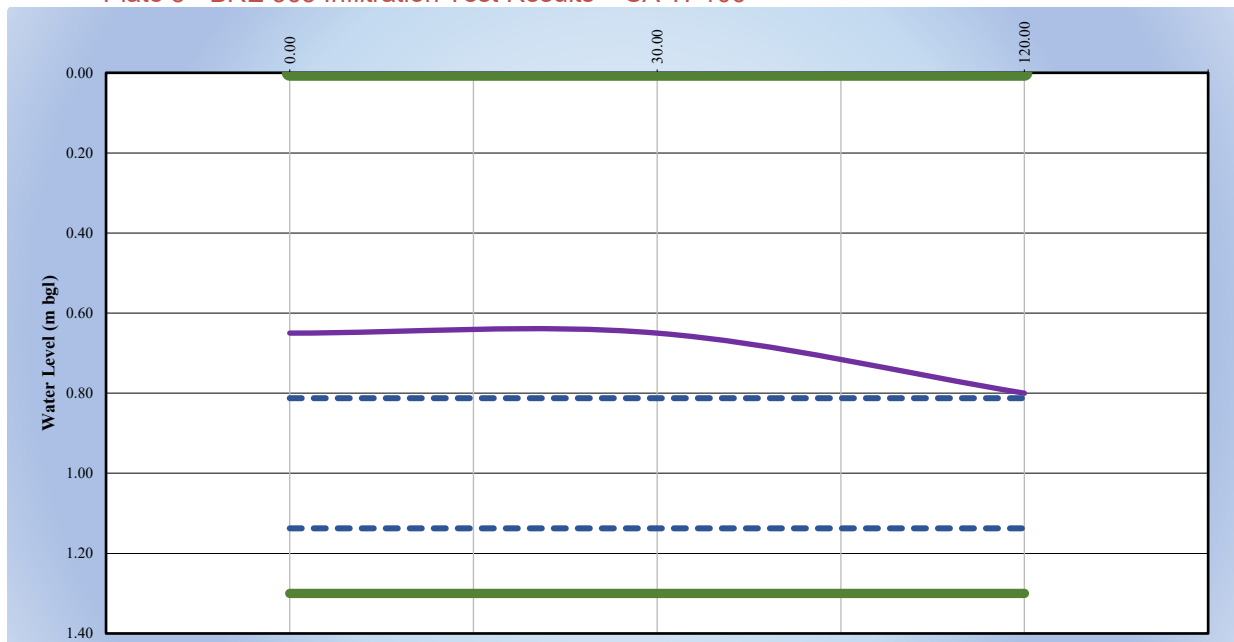


Plate 3 - BRE 365 Infiltration Test Results – SA TP106



### 3.3 Summary

No groundwater was encountered during the site investigation.

The SA TP103, SA TP104 & SA TP106 test results did not provide an infiltration rate due to the inefficiencies of the ground to infiltrate.

As all three soakaway tests failed, it is advised that alternative methods of sustainable drainage are explored.



## 4 Soils – Long Term Human Health Risk Assessment

### 4.1 Methodology

Based on the Preliminary Risk Assessment and Ground Model for this site, a Generic Quantitative Risk Assessment for human health has been undertaken in accordance with CLR and SR (SC050021 series) (DEFRA) guidance as well as CL:AIRE guidance on Comparing Soil Contamination Data with a Critical Concentration, May 2008 and comprises the following:

- *Selection of appropriate generic screening values for human health assessment.*
- *Creation of relevant datasets from which to undertake the assessment.*
- *Assessment of contamination distribution and comparison of site data to screening values using relevant statistical tests (in accordance with CIEH guidance).*
- *Assessment of risks to receptors.*

*Determination of requirements for further investigation or remediation*

### 4.2 Selection of Soil Screening Values

Soil screening values appropriate for a residential with plant uptake end use were selected.

### 4.3 Creation of Relevant Datasets

The sampling strategy targeted the made ground encountered on site.

### 4.4 Assessment

The soil analytical data has been assessed following CL:AIRE/CIEH guidance and NHBC R&D Publication 66 2008 “*Guidance for the Safe Development of Housing on Land Affected by Contamination*”.

The purpose of human health risk assessment for planning is to decide whether the land is suitable for the proposed end use and does not pose a risk to human health. Therefore, the key question to answer is, “*Is there sufficient evidence that the true mean concentration is less than the critical concentration*”?

Statistics are used to assist in answering the key question raised above and to help decide whether to support a particular hypothesis. The null hypothesis is the starting point because it is believed to be true but needs to be proved.

In terms of planning, the hypotheses are as follows:

- *Null Hypothesis (H0) - the true mean is equal to, or greater than the critical concentration.*
- *Alternative Hypothesis (H1) - the true mean is less than the critical concentration.*

The null hypothesis needs to be rejected in order to confirm that the land does not pose a human health risk and is suitable for use under the planning regime.

#### **4.5 Identification of Contaminants of Concern**

The results of the soil analysis from the investigation are shown in *Appendix G*. These results were then compared against the relevant GACs for 5% soil organic matter (SOM). The average percentage SOM was 4.6% for 5 samples.

A single slightly elevated level of Lead was identified in TP104 at 0.00 – 0.60m bgl, when assessed against the 5% SOM residential with plant uptake end use values, therefore statistical analysis was only undertaken for Lead.

It should be noted that the screening values for Aliphatics EC12-16, Aliphatics EC16-35 and Aliphatics EC35-44 are based upon the theoretical lower saturation limit for the compounds in question. The lower saturation limit has been used for these contaminants as the CLEA calculated SGV/GAC is greater than the lower saturation limit and vapour inhalation is an important contributor to exposure (SR4).

Soil analytical results and screening tables are shown in *Appendix E*.

#### **4.6 Asbestos**

An Asbestos screen was undertaken on all samples. No Asbestos was detected in any of the samples.

#### **4.7 Discussion**

Despite the slightly elevated level, Lead was noted to pass the mean value test, therefore, the statistical analysis indicates that the null hypothesis can be rejected for all the contaminants and the alternative hypothesis can be accepted.


The statistical analysis for Lead is presented in Appendix F.

#### **4.8 Conclusion**

The site does not pose a risk to human health, and no remediation works will be required as part of the development to ensure that the site is suitable for occupation and no longer poses a risk to human health.

## Appendix A – Trial Pit Logs

<b>Excavation Method</b> Machine Excavation	<b>Dimensions</b> 2.5x2.5x0.6m	<b>Ground Level (mOD)</b>	<b>Client</b> Anglesey Council	<b>Job Number</b> 31494_LG
	<b>Location</b>	<b>Dates</b> 08/03/2021	<b>Engineer</b> Michael Wiggins	<b>Sheet</b> 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.00-0.40	ES				(0.40) 0.40  (0.90)  1.30  (1.20)  2.50	Madeground, Grey, sandy, fine-coarse GRAVEL with abundant, angular, large cobbles. Gravel is angular, fine-coarse natural stone.  Brownish grey, clayey, slightly gravelly, fine-medium SAND with occasional clay pockets. Gravel is angular, fine-coarse natural stone.  Grey, slightly clayey, very gravelly, fine-medium SAND with occasional large cobbles. Gravel is angular, fine-coarse natural stone.  Terminated at 2.50m		



**Remarks**

CAT scanned  
Terminated on boulders/bedrock

<b>Scale (approx)</b> 1:50	<b>Logged By</b> Michael Wiggins	<b>Figure No.</b> 31494_LG.TP101
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<b>Excavation Method</b> Machine Excavation	<b>Dimensions</b> 2.5x2.5x0.6m	<b>Ground Level (mOD)</b>	<b>Client</b> Anglesey Council	<b>Job Number</b> 31494_LG
	<b>Location</b>	<b>Dates</b> 08/03/2021	<b>Engineer</b> Michael Wiggins	<b>Sheet</b> 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.00-0.40	ES				(0.40)	Madeground (similar to topsoil), dark brown, slightly silty, fine-medium SAND with occasional rootlets.		
					(0.30)	Brown, clayey, slightly gravelly, fine-medium SAND with occasional clay pockets. Gravel is angular, fine-coarse natural stone.		
					(1.80)	Grey, slightly clayey, very gravelly, fine-medium SAND with occasional large cobbles. Gravel is angular, fine-coarse natural stone. Occasional small-medium boulders from 1.9m.		
					2.50	Terminated at 2.50m		



**Remarks**

CAT scanned  
 Terminated on boulders/bedrock

<b>Scale (approx)</b> 1:50	<b>Logged By</b> Michael Wiggins	<b>Figure No.</b> 31494_LG.TP102
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**Site**  
Anglesey Development of Affordable Housing

**Trial Pit Number**  
**TP103**

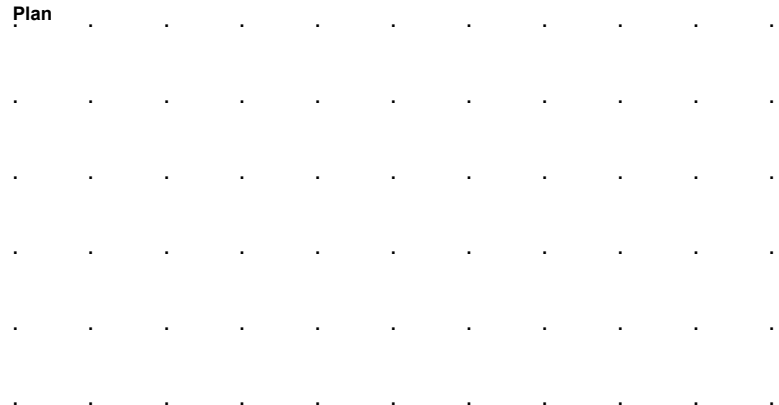
<b>Excavation Method</b> Machine Excavation	<b>Dimensions</b> 2.8x1.3x0.6m	<b>Ground Level (mOD)</b>	<b>Client</b> Anglesey Council	<b>Job Number</b> 31494_LG
	<b>Location</b>	<b>Dates</b> 08/03/2021	<b>Engineer</b> Michael Wiggins	<b>Sheet</b> 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.00-0.10	ES				0.10	Madeground, Brownish grey, very sandy, angular, fine-coarse GRAVEL.		
					(1.20)	Brown mottled grey, clayey, very gravelly, fine-medium SAND with occasional boulders. Gravel is ang, fine-coarse, natural stone		
					1.30	Terminated at 1.30m		

<b>Plan</b> .	<b>Remarks</b> Terminated on boulders/bedrock		
	<table border="1"> <tr> <td><b>Scale (approx)</b> 1:50</td> <td><b>Logged By</b> Michael Wiggins</td> <td><b>Figure No.</b> 31494_LG.TP103</td> </tr> </table>	<b>Scale (approx)</b> 1:50	<b>Logged By</b> Michael Wiggins
<b>Scale (approx)</b> 1:50	<b>Logged By</b> Michael Wiggins	<b>Figure No.</b> 31494_LG.TP103	

<b>Excavation Method</b> Machine Excavation	<b>Dimensions</b> 2.1x1.2x0.6m	<b>Ground Level (mOD)</b>	<b>Client</b> Anglesey Council	<b>Job Number</b> 31494_LG
	<b>Location</b>	<b>Dates</b> 08/03/2021	<b>Engineer</b> Michael Wiggins	<b>Sheet</b> 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water			
0.00-0.60	ES				(0.60)	Madeground (similar to topsoil), dark brown, slightly silty, fine-medium SAND.					
					0.60				Grey, slightly clayey, very gravelly, fine-medium SAND with occasional large cobbles. Gravel is angular, fine-coarse natural stone.		
					(0.60)				Terminated at 1.20m		

<b>Plan</b> 	<b>Remarks</b> CAT scanned Terminated on boulders/bedrock.		
	<b>Scale (approx)</b> 1:50	<b>Logged By</b> Michael Wiggins	<b>Figure No.</b> 31494_LG.TP104

<b>Excavation Method</b> Machine excavation	<b>Dimensions</b> 2.2x1x0.6m	<b>Ground Level (mOD)</b>	<b>Client</b> Anglesey Council	<b>Job Number</b> 31494_LG
	<b>Location</b>	<b>Dates</b> 08/03/2021	<b>Engineer</b> Michael Wiggins	<b>Sheet</b> 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
					(0.90)	MADEGROUND, brown, very cobbly fine-medium SAND. Cobbles are angular of brick and concrete..		
					0.90	Terminated at 1.00m		



**Remarks**

CAT scanned  
 Terminated on possible former concrete foundations.

<b>Scale (approx)</b> 1:50	<b>Logged By</b> Michael Wiggins	<b>Figure No.</b> 31494_LG.TP105
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<b>Excavation Method</b> Machine Excavation	<b>Dimensions</b> 2.5x1.3x0.6m	<b>Ground Level (mOD)</b>	<b>Client</b> Anglesey Council	<b>Job Number</b> 31494_LG
	<b>Location</b>	<b>Dates</b> 08/03/2021	<b>Engineer</b> Michael Wiggins	<b>Sheet</b> 1/1

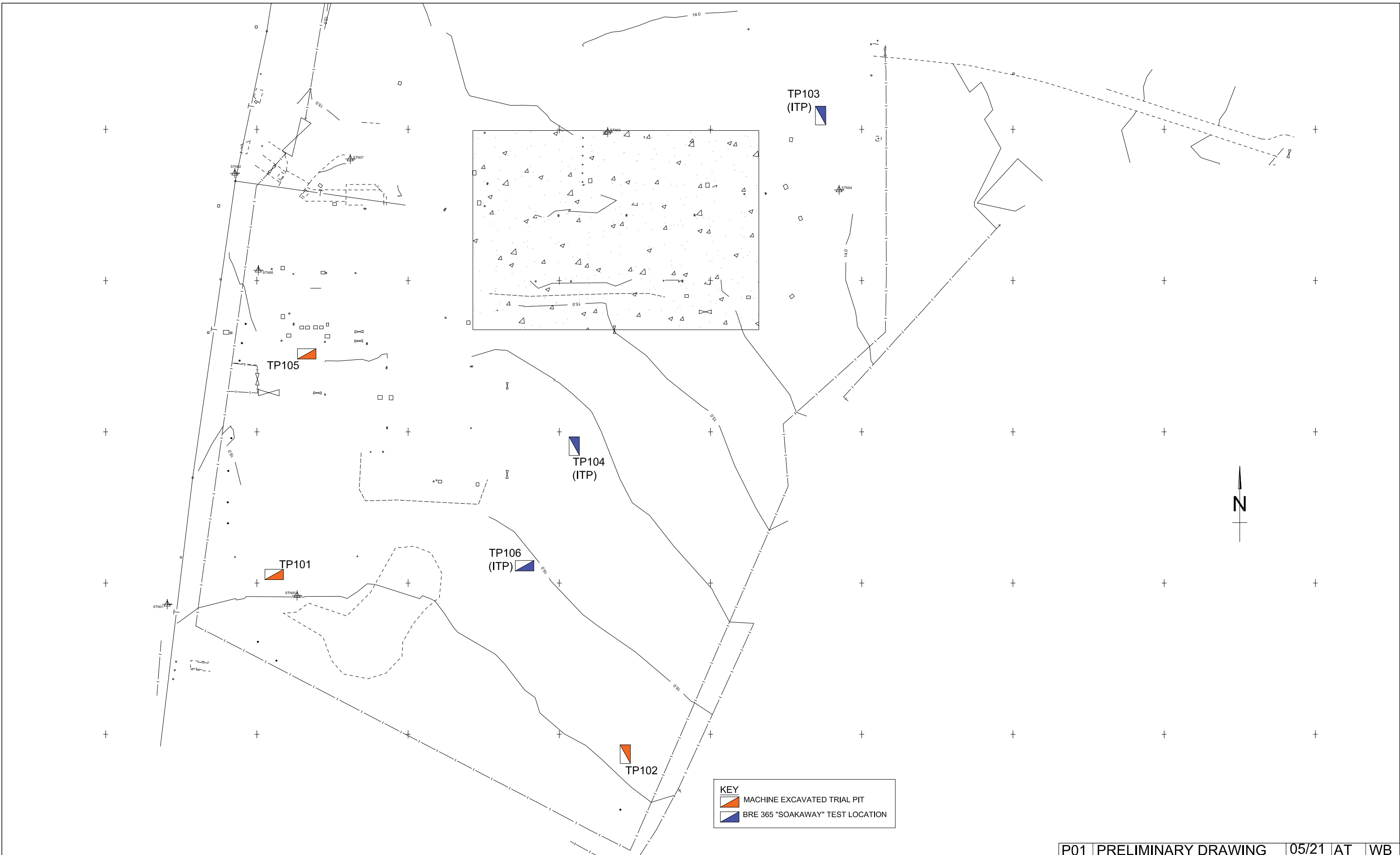
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water		
0.00-0.60	ES				(0.40)	MADEGROUND (similar to topsoil), dark brown, slightly silty SAND.				
					0.40					
					(0.80)	Grey, slightly clayey, very gravelly, fine-medium SAND with occasional large cobbles. Gravel is angular, fine-coarse natural stone.				
					1.20	Terminated at 1.30m				



**Remarks**  
Terminated on boulders/bedrock

<b>Scale (approx)</b> 1:50	<b>Logged By</b> Michael Wiggins	<b>Figure No.</b> 31494_LG.TP106
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## Appendix B – Site Investigation Location Plan



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Client  
**ANGLESEY COUNCIL**

Project  
**ANGLESEY DEVELOPMENT OF AFFORDABLE HOUSING**

Drawing Title  
**SITE INVESTIGATION LOCATIONS ON EXISTING PLAN**

P01 PRELIMINARY DRAWING		05/21	AT	WB
Rev	Description	Date	By	Chkd
Date	Drawn By	Checked By		
MAY 2021	A TOSH	WGB		
Scale at A3 NTS		Project Number 31494LG		
Sheet Number			Revision	
31494-SUT-ZZ-00-DR-G-720-0001			P01	

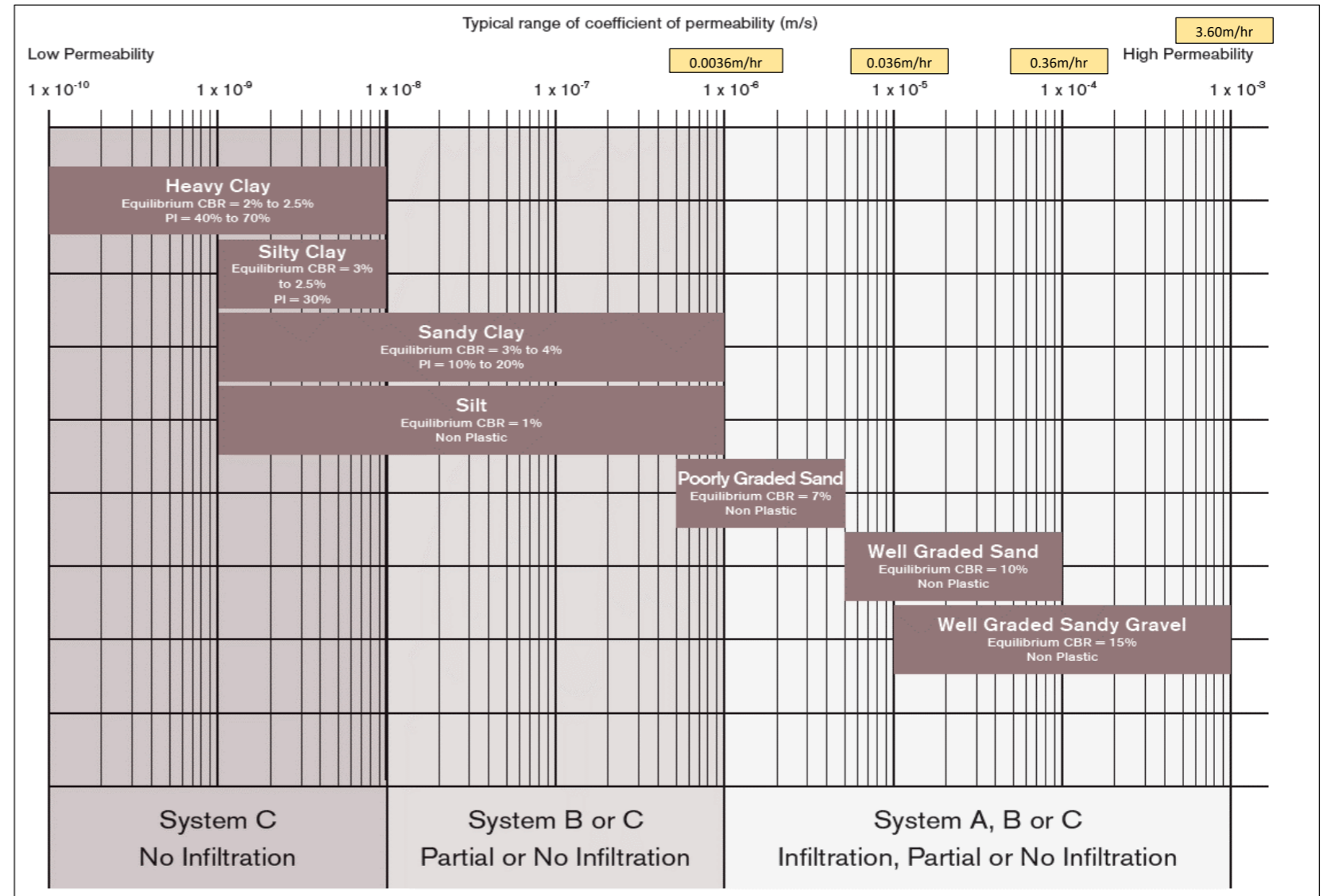
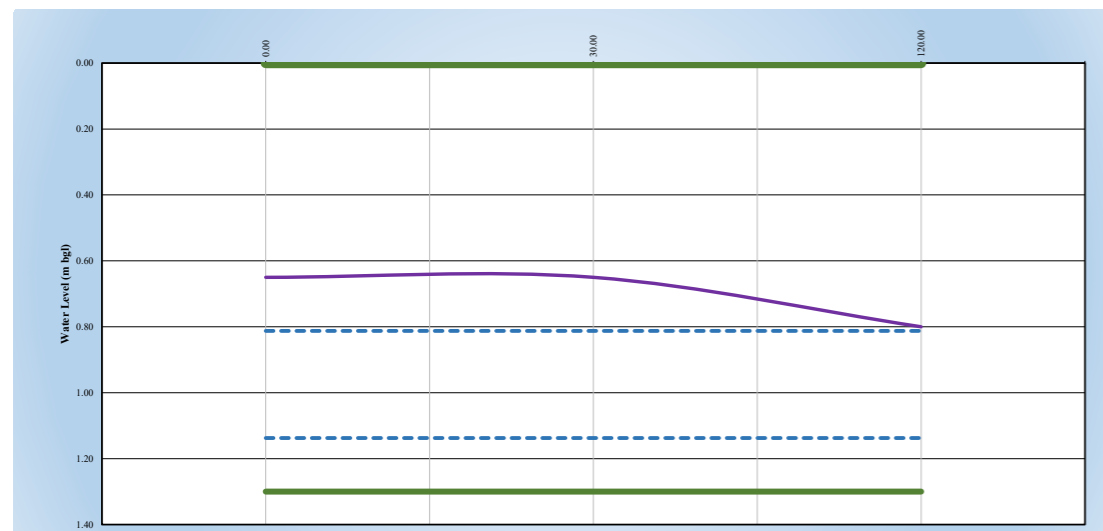
## Appendix C – BRE 365 Infiltration Test Results & Calculations – SA TP103, 104 & 106





Trial Pit Dimensions (m)	Length	Width	Depth	Depth for Analysis
	2.50	0.60	1.30	0.65

Time (mins)	Depth of water (m bgl)		
0.0	0.65	$V_{(p75-25)}$ = Effective storage volume in trial pit between effective depths 25% to 75%. = <b>0.488</b> m <sup>3</sup>	
30.0	0.65		
120.0	0.80		
Time entry		$a_{(p50)}$ = Initial surface area of trial pit up to 50% effective depth and including the base area. = <b>3.515</b> m <sup>2</sup>	
$t_{p75}$	<input type="text"/> mins		
$t_{p25}$	<input type="text"/> mins	$t_{(p75-25)}$ = Time for the water level to fall from 75% to 25% effective depth. = <b>0.0</b> min	
		Soil infiltration rate = $\frac{V_{(p75-25)}}{t_{(p75-25)} \times a_{(p50)} \times 60}$	
		Depth (25%) = <b>1.138</b> Depth (75%) = <b>0.813</b> m	
		Soil infiltration rate =	<b>N/A</b> m/sec
			<b>#VALUE!</b> m/hr



Test	Fill	Project Reference
SA TP106	1	Thomas Ellis LG:31494

## Appendix D – Photographic Log



## Photographic Log – Trial Pits and Soakaways



Plate 1: TP101 terminated at a depth of 2.50m



Plate 2: Material from TP101



Plate 3: TP102 terminated at a depth of 2.50m



Plate 4: Material from TP102



Plate 5: SA TP103 terminated at 1.30m



Plate 6: Material from TP103



Plate 7: SA TP104 terminated at 1.20m



Plate 8: Some material from TP104





Plate 9: TP105 terminated at a depth of 1.00m



Plate 10: Material from TP105



Plate 11: SA TP106 terminated at 1.30m



Plate 12: Material from TP106

## Appendix E – Analytical Certificates & Screening Spreadsheets



Job Name:	Anglesey
Job Number:	LG: 31494

ATKINS REVISED 31/03/11, CATEGORY 4 - APRIL 2014, LQM JAN 2015

Contaminant	Units	Category 4 Screening Values (6%)	Atkins At Risk	LQM			21/02657	21/02657
				SOM 1%	SOM 2.5%	SOM 5%	21/02657/1	21/02657/2
							TP101	TP102
							0.00 - 0.40m	0.00 - 0.40m
Arsenic (Total)	mg/kg	37			37		<1	8
Boron (Soluble)	mg/kg				290		<1.0	<1.0
Cadmium (Total)	mg/kg	26			11		0.5	0.8
Chromium III	mg/kg				910		20	28
Chromium VI	mg/kg	21			6		<1	<1
Copper (Total)	mg/kg				2400		15	54
Lead (Total)	mg/kg	200					14	137
Mercury (Total)	mg/kg				40		<0.17	<0.17
Nickel (Total)	mg/kg				180		19	23
Selenium (Total)	mg/kg				250		<1	<1
Zinc (Total)	mg/kg				3700		51	104
Cyanide (Total)	mg/kg		34				<1	<1
Phenols (Total)	mg/kg			280	550	1100	<0.2	<0.2
Organic matter	%						0.7	6.4
Sulphate (Acid Soluble)	mg/kg						<200	630
Sulphate as Water Soluble	g/l						<0.01	<0.01
Sulphide	mg/kg						<5	<5
pH	pH units						7.93	6.21
Sulphur (Elemental)	mg/kg						<5	<5
Asbestos							NAD	NAD
<b>&gt;&gt; TPH SUITE &lt;&lt;</b>								
<b>Total Aliphatic</b>								
>C5 to C6 aliphatic	mg/kg			42	78	160	<0.01	<0.01
>C6 to C8 aliphatic	mg/kg			100	230	530	<0.01	<0.01
>C8 to C10 aliphatic	mg/kg			27	65	150	<1	<1
>C10 to C12 aliphatic	mg/kg			130	330	760	<1	<1
>C12 to C16 aliphatic	mg/kg			1100	2400	4300	<1	<1
>C16 to C21 aliphatic	mg/kg			65000	92000	110000	<1	<1
>C21 to C35 aliphatic	mg/kg			65000	92000	110000	2	2
>C35 to C44 aliphatic	mg/kg			65000	92000	110000	<1	<1
<b>Total Aromatic</b>								
>C5 to C7 aromatic (Benzene)	mg/kg			70	140	300	<0.01	<0.01
>C7 to C8 aromatic (Toluene)	mg/kg			130	290	660	<0.01	<0.01
>C8 to C10 aromatic	mg/kg			34	83	190	<1	<1
>C10 to C12 aromatic	mg/kg			74	180	380	<1	<1
>C12 to C16 aromatic	mg/kg			140	330	660	<1	<1
>C16 to C21 aromatic	mg/kg			260	540	930	<1	1
>C21 to C35 aromatic	mg/kg			1100	1500	1700	<1	7
>C35 to C44 aromatic	mg/kg			1100	1500	1700	<1	<1
<b>&gt;&gt; BTEX SUITE &lt;&lt;</b>								
benzene	mg/kg	0.87		0.87	0.17	0.37	<0.01	<0.01
toluene	mg/kg			130	290	660	<0.01	<0.01
ethylbenzene	mg/kg			47	110	260	<0.01	<0.01
M&P Xylene	mg/kg			56	130	310	<0.01	<0.01
O-Xylene	mg/kg			60	140	330	<0.01	<0.01
<b>&gt;&gt; PAH SUITE &lt;&lt;</b>								
naphthalene	mg/kg			2.3	5.6	13	<0.03	<0.03
acenaphthylene	mg/kg			170	420	920	<0.01	<0.01
acenaphthene	mg/kg			210	510	1100	<0.01	<0.01
fluorene	mg/kg			170	400	860	<0.01	<0.01
phenanthrene	mg/kg			95	220	440	<0.03	0.09
anthracene	mg/kg			2400	5400	11000	<0.02	<0.02
fluoranthene	mg/kg			280	560	890	<0.08	0.17
pyrene	mg/kg			620	1200	2000	<0.07	0.17
benzo(a)anthracene	mg/kg			7.2	11	13	<0.04	0.12
chrysene	mg/kg			15	22	27	<0.06	0.12
benzo(b)fluoranthene	mg/kg			2.6	3.3	3.7	<0.05	0.14
benzo(k)fluoranthene	mg/kg			77	93	100	<0.07	<0.07
benzo(a)pyrene	mg/kg	5		2.2	2.7	3	<0.04	0.15
dibenzo(ah)anthracene	mg/kg			0.24	0.28	0.3	<0.04	<0.04
benzo(ghi)perylene	mg/kg			320	340	350	<0.05	0.09
indeno(123cd)pyrene	mg/kg			27	36	41	<0.03	0.09



Job Name:	Anglesey
Job Number:	LG: 31494

ATKINS REVISED 31/03/11, CATEGORY 4 - APRIL 2014, LQM JAN 2015

Contaminant	Units	Category 4 Screening Values (6%)	Atkins Atrisk	LQM			21/02657	21/02657
				RESIDENTIAL WITH PLANT UPTAKE			21/02657/3	21/02657/4
				SOM 1%	SOM 2.5%	SOM 5%	TP103	TP104
							0.00 - 0.10m	0.00 - 0.60m
Arsenic (Total)	mg/kg	37			37		<1	9
Boron (Soluble)	mg/kg				290		<1.0	<1.0
Cadmium (Total)	mg/kg	26			11		0.7	0.9
Chromium III	mg/kg				910		25	29
Chromium VI	mg/kg	21			6		<1	<1
Copper (Total)	mg/kg				2400		14	65
Lead (Total)	mg/kg	200					24	205
Mercury (Total)	mg/kg				40		<0.17	0.32
Nickel (Total)	mg/kg				180		19	24
Selenium (Total)	mg/kg				250		<1	2
Zinc (Total)	mg/kg				3700		70	136
Cyanide (Total)	mg/kg		34				<1	<1
Phenols (Total)	mg/kg			280	550	1100	<0.2	<0.2
Organic matter	%						0.8	10.6
Sulphate (Acid Soluble)	mg/kg						<200	750
Sulphate as Water Soluble	g/l						0.02	<0.01
Sulphide	mg/kg						<5	<5
pH	pH units						8.07	5.92
Sulphur (Elemental)	mg/kg						<5	<5
Asbestos							NAD	NAD
<b>&gt;&gt; TPH SUITE &lt;&lt;</b>								
<b>Total Aliphatic</b>								
>C5 to C6 aliphatic	mg/kg			42	78	160	<0.01	<0.01
>C6 to C8 aliphatic	mg/kg			100	230	530	<0.01	<0.01
>C8 to C10 aliphatic	mg/kg			27	65	150	<1	<1
>C10 to C12 aliphatic	mg/kg			130	330	760	<1	<1
>C12 to C16 aliphatic	mg/kg			1100	2400	4300	<1	<1
>C16 to C21 aliphatic	mg/kg			65000	92000	110000	<1	<1
>C21 to C35 aliphatic	mg/kg			65000	92000	110000	2	4
>C35 to C44 aliphatic	mg/kg			65000	92000	110000	<1	<1
<b>Total Aromatic</b>								
>C5 to C7 aromatic (Benzene)	mg/kg			70	140	300	<0.01	<0.01
>C7 to C8 aromatic (Toluene)	mg/kg			130	290	660	<0.01	<0.01
>C8 to C10 aromatic	mg/kg			34	83	190	<1	<1
>C10 to C12 aromatic	mg/kg			74	180	380	<1	<1
>C12 to C16 aromatic	mg/kg			140	330	660	<1	<1
>C16 to C21 aromatic	mg/kg			260	540	930	<1	2
>C21 to C35 aromatic	mg/kg			1100	1500	1700	2	13
>C35 to C44 aromatic	mg/kg			1100	1500	1700	<1	2
<b>&gt;&gt; BTEX SUITE &lt;&lt;</b>								
benzene	mg/kg	0.87		0.87	0.17	0.37	<0.01	<0.01
toluene	mg/kg			130	290	660	<0.01	<0.01
ethylbenzene	mg/kg			47	110	260	<0.01	<0.01
M&P Xylene	mg/kg			56	130	310	<0.01	<0.01
O-Xylene	mg/kg			60	140	330	<0.01	<0.01
<b>&gt;&gt; PAH SUITE &lt;&lt;</b>								
naphthalene	mg/kg			2.3	5.6	13	<0.03	<0.03
acenaphthylene	mg/kg			170	420	920	<0.01	<0.01
acenaphthene	mg/kg			210	510	1100	<0.01	<0.01
fluorene	mg/kg			170	400	860	<0.01	<0.01
phenanthrene	mg/kg			95	220	440	<0.03	0.11
anthracene	mg/kg			2400	5400	11000	<0.02	<0.02
fluoranthene	mg/kg			280	560	890	<0.08	0.25
pyrene	mg/kg			620	1200	2000	<0.07	0.23
benzo(a)anthracene	mg/kg			7.2	11	13	<0.04	0.15
chrysene	mg/kg			15	22	27	<0.06	0.18
benzo(b)fluoranthene	mg/kg			2.6	3.3	3.7	<0.05	0.21
benzo(k)fluoranthene	mg/kg			77	93	100	<0.07	<0.07
benzo(a)pyrene	mg/kg	5		2.2	2.7	3	<0.04	0.18
dibenzo(ah)anthracene	mg/kg			0.24	0.28	0.3	<0.04	<0.04
benzo(ghi)perylene	mg/kg			320	340	350	<0.05	0.11
indeno(123cd)pyrene	mg/kg			27	36	41	<0.03	0.12

## FINAL ANALYTICAL TEST REPORT

**Envirolab Job Number:** 21/02657  
**Issue Number:** 1  
**Date:** 31 March, 2021


**Client:** Sutcliffe  
18-20 Harrington Street  
Liverpool  
L2 9QA

**Project Manager:** (Use) S Hale; D Bowen; A Tosh; W Baldwin; J Smith  
**Project Name:** Anglesey  
**Project Ref:** Not specified  
**Order No:** 8510  
**Date Samples Received:** 11/03/21  
**Date Instructions Received:** 16/03/21  
**Date Analysis Completed:** 31/03/21

**Prepared by:**

  
Melanie Marshall  
Laboratory Coordinator

**Approved by:**

  
Danielle Brierley  
Client Manager



Envirolab Job Number: 21/02657

Client Project Name: Anglesey

Client Project Ref: Not specified

Lab Sample ID	21/02657/1	21/02657/2	21/02657/3	21/02657/4	21/02657/5			Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TP101	TP102	TP103	TP104	TP106					
Depth to Top	0.00	0.00	0.00	0.00	0.00					
Depth To Bottom	0.40	0.40	0.10	0.60	0.40					
Date Sampled	08-Mar-21	08-Mar-21	08-Mar-21	08-Mar-21	08-Mar-21					
Sample Type	Soil	Soil	Soil	Soil	Soil					
Sample Matrix Code	2ABE	2AE	4A	2AE	2AE					
% Moisture at <40C <sub>A</sub>	7.7	17.5	6.0	17.6	16.6					
% Stones >10mm <sub>A</sub>	25.5	9.2	19.0	9.3	15.5			% w/w	0.1	A-T-044
pH <sub>D</sub> <sup>M#</sup>	7.93	6.21	8.07	5.92	5.73			pH	0.01	A-T-031s
Sulphate (water sol 2:1) <sub>D</sub> <sup>M#</sup>	<0.01	<0.01	0.02	<0.01	<0.01			g/l	0.01	A-T-026s
Sulphate (acid soluble) <sub>D</sub> <sup>M#</sup>	<200	630	<200	750	610			mg/kg	200	A-T-028s
Cyanide (total) <sub>A</sub> <sup>M#</sup>	<1	<1	<1	<1	<1			mg/kg	1	A-T-042sTCN
Phenols - Total by HPLC <sub>A</sub>	<0.2	<0.2	<0.2	<0.2	<0.2			mg/kg	0.2	A-T-050s
Sulphide <sub>A</sub>	<5	<5	<5	<5	<5			mg/kg	5	A-T-S2-s
Sulphur (elemental) <sub>D</sub> <sup>M#</sup>	<5	<5	<5	<5	<5			mg/kg	5	A-T-029s
Organic matter <sub>D</sub> <sup>M#</sup>	0.7	6.4	0.8	10.6	4.3			% w/w	0.1	A-T-032 OM
Arsenic <sub>D</sub> <sup>M#</sup>	<1	8	<1	9	6			mg/kg	1	A-T-024s
Boron (water soluble) <sub>D</sub>	<1.0	<1.0	<1.0	<1.0	<1.0			mg/kg	1	A-T-027s
Cadmium <sub>D</sub> <sup>M#</sup>	0.5	0.8	0.7	0.9	0.7			mg/kg	0.5	A-T-024s
Copper <sub>D</sub> <sup>M#</sup>	15	54	14	65	74			mg/kg	1	A-T-024s
Chromium <sub>D</sub> <sup>M#</sup>	20	28	25	29	24			mg/kg	1	A-T-024s
Chromium (hexavalent) <sub>D</sub>	<1	<1	<1	<1	<1			mg/kg	1	A-T-040s
Chromium (trivalent)	20	28	25	29	24			mg/kg	1	Calc
Lead <sub>D</sub> <sup>M#</sup>	14	137	24	205	129			mg/kg	1	A-T-024s
Mercury <sub>D</sub>	<0.17	<0.17	<0.17	0.32	<0.17			mg/kg	0.17	A-T-024s
Nickel <sub>D</sub> <sup>M#</sup>	19	23	19	24	20			mg/kg	1	A-T-024s
Selenium <sub>D</sub> <sup>M#</sup>	<1	<1	<1	2	2			mg/kg	1	A-T-024s
Zinc <sub>D</sub> <sup>M#</sup>	51	104	70	136	91			mg/kg	5	A-T-024s

Envirolab Job Number: 21/02657

Client Project Name: Anglesey

Client Project Ref: Not specified

Lab Sample ID	21/02657/1	21/02657/2	21/02657/3	21/02657/4	21/02657/5			Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TP101	TP102	TP103	TP104	TP106					
Depth to Top	0.00	0.00	0.00	0.00	0.00					
Depth To Bottom	0.40	0.40	0.10	0.60	0.40					
Date Sampled	08-Mar-21	08-Mar-21	08-Mar-21	08-Mar-21	08-Mar-21					
Sample Type	Soil	Soil	Soil	Soil	Soil					
Sample Matrix Code	2ABE	2AE	4A	2AE	2AE					
Asbestos in Soil (inc. matrix)										
Asbestos in soil <sup>#</sup>	NAD	NAD	NAD	NAD	NAD					A-T-045
Asbestos ACM - Suitable for Water Absorption Test? <sub>D</sub>	N/A	N/A	N/A	N/A	N/A					A-T-045

Envirolab Job Number: 21/02657

Client Project Name: Anglesey

Client Project Ref: Not specified

Lab Sample ID	21/02657/1	21/02657/2	21/02657/3	21/02657/4	21/02657/5			Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TP101	TP102	TP103	TP104	TP106					
Depth to Top	0.00	0.00	0.00	0.00	0.00					
Depth To Bottom	0.40	0.40	0.10	0.60	0.40					
Date Sampled	08-Mar-21	08-Mar-21	08-Mar-21	08-Mar-21	08-Mar-21					
Sample Type	Soil	Soil	Soil	Soil	Soil					
Sample Matrix Code	2ABE	2AE	4A	2AE	2AE					
PAH-16MS										
Acenaphthene <sub>A</sub> <sup>M#</sup>	<0.01	<0.01	<0.01	<0.01	<0.01			mg/kg	0.01	A-T-019s
Acenaphthylene <sub>A</sub> <sup>M#</sup>	<0.01	<0.01	<0.01	<0.01	<0.01			mg/kg	0.01	A-T-019s
Anthracene <sub>A</sub> <sup>M#</sup>	<0.02	<0.02	<0.02	<0.02	<0.02			mg/kg	0.02	A-T-019s
Benzo(a)anthracene <sub>A</sub> <sup>M#</sup>	<0.04	0.12	<0.04	0.15	0.10			mg/kg	0.04	A-T-019s
Benzo(a)pyrene <sub>A</sub> <sup>M#</sup>	<0.04	0.15	<0.04	0.18	0.12			mg/kg	0.04	A-T-019s
Benzo(b)fluoranthene <sub>A</sub> <sup>M#</sup>	<0.05	0.14	<0.05	0.21	0.14			mg/kg	0.05	A-T-019s
Benzo(ghi)perylene <sub>A</sub> <sup>M#</sup>	<0.05	0.09	<0.05	0.11	0.08			mg/kg	0.05	A-T-019s
Benzo(k)fluoranthene <sub>A</sub> <sup>M#</sup>	<0.07	<0.07	<0.07	<0.07	<0.07			mg/kg	0.07	A-T-019s
Chrysene <sub>A</sub> <sup>M#</sup>	<0.06	0.12	<0.06	0.18	0.11			mg/kg	0.06	A-T-019s
Dibenzo(ah)anthracene <sub>A</sub> <sup>M#</sup>	<0.04	<0.04	<0.04	<0.04	<0.04			mg/kg	0.04	A-T-019s
Fluoranthene <sub>A</sub> <sup>M#</sup>	<0.08	0.17	<0.08	0.25	0.16			mg/kg	0.08	A-T-019s
Fluorene <sub>A</sub> <sup>M#</sup>	<0.01	<0.01	<0.01	<0.01	<0.01			mg/kg	0.01	A-T-019s
Indeno(123-cd)pyrene <sub>A</sub> <sup>M#</sup>	<0.03	0.09	<0.03	0.12	0.09			mg/kg	0.03	A-T-019s
Naphthalene <sub>A</sub> <sup>M#</sup>	<0.03	<0.03	<0.03	<0.03	<0.03			mg/kg	0.03	A-T-019s
Phenanthrene <sub>A</sub> <sup>M#</sup>	<0.03	0.09	<0.03	0.11	0.08			mg/kg	0.03	A-T-019s
Pyrene <sub>A</sub> <sup>M#</sup>	<0.07	0.17	<0.07	0.23	0.14			mg/kg	0.07	A-T-019s
Total PAH-16MS <sub>A</sub> <sup>M#</sup>	<0.08	1.14	<0.08	1.54	1.02			mg/kg	0.01	A-T-019s

Envirolab Job Number: 21/02657

Client Project Name: Anglesey

Client Project Ref: Not specified

Lab Sample ID	21/02657/1	21/02657/2	21/02657/3	21/02657/4	21/02657/5			Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TP101	TP102	TP103	TP104	TP106					
Depth to Top	0.00	0.00	0.00	0.00	0.00					
Depth To Bottom	0.40	0.40	0.10	0.60	0.40					
Date Sampled	08-Mar-21	08-Mar-21	08-Mar-21	08-Mar-21	08-Mar-21					
Sample Type	Soil	Soil	Soil	Soil	Soil					
Sample Matrix Code	2ABE	2AE	4A	2AE	2AE					
TPH UKCWG										
Ali >C5-C6 <sub>A</sub> <sup>#</sup>	<0.01	<0.01	<0.01	<0.01	<0.01			mg/kg	0.01	A-T-022s
Ali >C6-C8 <sub>A</sub> <sup>#</sup>	<0.01	<0.01	<0.01	<0.01	<0.01			mg/kg	0.01	A-T-022s
Ali >C8-C10 <sub>A</sub>	<1	<1	<1	<1	<1			mg/kg	1	A-T-055s
Ali >C10-C12 <sub>A</sub> <sup>M#</sup>	<1	<1	<1	<1	<1			mg/kg	1	A-T-055s
Ali >C12-C16 <sub>A</sub> <sup>M#</sup>	<1	<1	<1	<1	<1			mg/kg	1	A-T-055s
Ali >C16-C21 <sub>A</sub> <sup>M#</sup>	<1	<1	<1	<1	<1			mg/kg	1	A-T-055s
Ali >C21-C35 <sub>A</sub> <sup>M#</sup>	2	2	2	4	5			mg/kg	1	A-T-055s
Ali >C35-C44 <sub>A</sub>	<1	<1	<1	<1	<1			mg/kg	1	A-T-055s
Total Aliphatics <sub>A</sub>	2	2	2	4	5			mg/kg	1	A-T-055s
Aro >C5-C7 <sub>A</sub> <sup>#</sup>	<0.01	<0.01	<0.01	<0.01	<0.01			mg/kg	0.01	A-T-022s
Aro >C7-C8 <sub>A</sub> <sup>#</sup>	<0.01	<0.01	<0.01	<0.01	<0.01			mg/kg	0.01	A-T-022s
Aro >C8-C10 <sub>A</sub>	<1	<1	<1	<1	<1			mg/kg	1	A-T-055s
Aro >C10-C12 <sub>A</sub>	<1	<1	<1	<1	<1			mg/kg	1	A-T-055s
Aro >C12-C16 <sub>A</sub>	<1	<1	<1	<1	<1			mg/kg	1	A-T-055s
Aro >C16-C21 <sub>A</sub> <sup>M#</sup>	<1	1	<1	2	6			mg/kg	1	A-T-055s
Aro >C21-C35 <sub>A</sub> <sup>M#</sup>	<1	7	2	13	29			mg/kg	1	A-T-055s
Aro >C35-C44 <sub>A</sub>	<1	<1	<1	2	3			mg/kg	1	A-T-055s
Total Aromatics <sub>A</sub>	<1	8	2	18	39			mg/kg	1	A-T-055s
TPH (Ali & Aro >C5-C44) <sub>A</sub>	2	10	3	22	44			mg/kg	1	A-T-055s
BTEX - Benzene <sub>A</sub> <sup>#</sup>	<0.01	<0.01	<0.01	<0.01	<0.01			mg/kg	0.01	A-T-022s
BTEX - Toluene <sub>A</sub> <sup>#</sup>	<0.01	<0.01	<0.01	<0.01	<0.01			mg/kg	0.01	A-T-022s
BTEX - Ethyl Benzene <sub>A</sub> <sup>#</sup>	<0.01	<0.01	<0.01	<0.01	<0.01			mg/kg	0.01	A-T-022s
BTEX - m & p Xylene <sub>A</sub> <sup>#</sup>	<0.01	<0.01	<0.01	<0.01	<0.01			mg/kg	0.01	A-T-022s
BTEX - o Xylene <sub>A</sub> <sup>#</sup>	<0.01	<0.01	<0.01	<0.01	<0.01			mg/kg	0.01	A-T-022s
MTBE <sub>A</sub> <sup>#</sup>	<0.01	<0.01	<0.01	<0.01	<0.01			mg/kg	0.01	A-T-022s

## **REPORT NOTES**

### **General**

This report shall not be reproduced, except in full, without written approval from Envirolab.

The results reported herein relate only to the material supplied to the laboratory.

The residue of any samples contained within this report, and any received with the same delivery, will be disposed of six weeks after initial scheduling. For samples tested for Asbestos we will retain a portion of the dried sample for a minimum of six months after the initial Asbestos testing is completed.

Analytical results reflect the quality of the sample at the time of analysis only.

Opinions and interpretations expressed are outside the scope of our accreditation.

If results are in italic font they are associated with an AQC failure, these are not accredited and are unreliable.

A deviating samples report is appended and will indicate if samples or tests have been found to be deviating. Any test results affected may not be an accurate record of the concentration at the time of sampling and, as a result, may be invalid.

The Client Sample No, Client Sample ID, Depth to Top, Depth to Bottom and Date Sampled were all provided by the client.

### **Soil chemical analysis:**

All results are reported as dry weight (<40°C).

For samples with Matrix Codes 1 - 6 natural stones, brick and concrete fragments >10mm and any extraneous material (visible glass, metal or twigs) are removed and excluded from the sample prior to analysis and reported results corrected to a whole sample basis. This is reported as '% stones >10mm'.

For samples with Matrix Code 7 the whole sample is dried and crushed prior to analysis and this supersedes any "A" subscripts

All analysis is performed on the sample as received for soil samples which are positive for asbestos or the client has informed asbestos may be present and/or if they are from outside the European Union and this supersedes any "D" subscripts.

### **TPH analysis of water by method A-T-007:**

Free and visible oils are excluded from the sample used for analysis so that the reported result represents the dissolved phase only.

### **Electrical Conductivity of water by Method A-T-037:**

Results greater than 12900µS/cm @ 25°C / 1155µS/cm @ 20°C fall outside the calibration range and as such are unaccredited.

### **Asbestos:**

Asbestos in soil analysis is performed on a dried aliquot of the submitted sample and cannot guarantee to identify asbestos if only present in small numbers as discrete fibres/fragments in the original sample.

Stones etc. are not removed from the sample prior to analysis.

Quantification of asbestos is a 3 stage process including visual identification, hand picking and weighing and fibre counting by sedimentation/phase contrast optical microscopy if required. If asbestos is identified as being present but is not in a form that is suitable for analysis by hand picking and weighing (normally if the asbestos is present as free fibres) quantification by sedimentation is performed. Where ACMs are found a percentage asbestos is assigned to each with reference to 'HSG264, Asbestos: The survey guide' and the calculated asbestos content is expressed as a percentage of the dried soil sample aliquot used.

### **Predominant Matrix Codes:**

1 = SAND, 2 = LOAM, 3 = CLAY, 4 = LOAM/SAND, 5 = SAND/CLAY, 6 = CLAY/LOAM, 7 = OTHER, 8 = Asbestos bulk ID sample.

Samples with Matrix Code 7 & 8 are not predominantly a SAND/LOAM/CLAY mix and are not covered by our BSEN 17025 or MCERTS accreditations, with the exception of bulk asbestos which are BSEN 17025 accredited.

### **Secondary Matrix Codes:**

A = contains stones, B = contains construction rubble, C = contains visible hydrocarbons, D = contains glass/metal,

E = contains roots/twigs.

### **Key:**

IS indicates Insufficient Sample for analysis.

US indicates Unsuitable Sample for analysis.

NDP indicates No Determination Possible.

NAD indicates No Asbestos Detected.

N/A indicates Not Applicable.

Superscript # indicates method accredited to ISO 17025.

Superscript "M" indicates method accredited to MCERTS.

Subscript "A" indicates analysis performed on the sample as received.

Subscript "D" indicates analysis performed on the dried sample, crushed to pass a 2mm sieve

Please contact us if you need any further information.

## Envirolab Deviating Samples Report

Units 7&8 Sandpits Business Park, Mottram Road, Hyde, SK14 3AR  
Tel. 0161 368 4921 email. ask@envlab.co.uk

**Client:** Sutcliffe, 18-20 Harrington Street, Liverpool, L2 9QA

**Project No:** 21/02657

**Project:** Anglesey

**Date Received:** 16/03/2021 (am)

**Clients Project No:**

**Cool Box Temperatures (°C):** 5.6

Lab Sample ID	21/02657/1	21/02657/2	21/02657/3	21/02657/4	21/02657/5
Client Sample No					
Client Sample ID/Depth	TP101 0.00-0.40m	TP102 0.00-0.40m	TP103 0.00-0.10m	TP104 0.00-0.60m	TP106 0.00-0.40m
Date Sampled	08/03/21	08/03/21	08/03/21	08/03/21	08/03/21
Deviation Code					
F	✓	✓	✓	✓	✓

Key

F

*Maximum holding time exceeded between sampling date and analysis for analytes listed below*

### HOLDING TIME EXCEEDANCES

Lab Sample ID	21/02657/1	21/02657/2	21/02657/3	21/02657/4	21/02657/5
Client Sample No					
Client Sample ID/Depth	TP101 0.00-0.40m	TP102 0.00-0.40m	TP103 0.00-0.10m	TP104 0.00-0.60m	TP106 0.00-0.40m
Date Sampled	08/03/21	08/03/21	08/03/21	08/03/21	08/03/21
Sulphide	✓	✓	✓	✓	✓

If, at any point before reaching the laboratory, the temperature of the samples has breached those set in published standards, e.g. BS-EN 5667-3, ISO 18400-102:2017, then the concentration of any affected analytes may differ from that at the time of sampling.