

Technical Appendix 8.1

Factual Ground Investigation Report



FALMOUTH DOCKS DEVELOPMENT

FACTUAL GROUND INVESTIGATION REPORT

Prepared for A&P FALMOUTH

Report Ref: 37977

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FALMOUTH DOCKS DEVELOPMENT

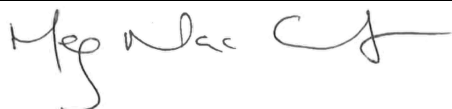
FACTUAL GROUND INVESTIGATION REPORT

Prepared for A&P FALMOUTH

Report Ref: 37977

PROJECT: Redevelopment of docks.

CONSULTANT: Ramboll

VOLUME - VERSION	STATUS	ORIGINATOR	CHECKER	APPROVED	DATE
1 of 1 – A	DRAFT	MMC	JH	-	07/05/2024
1 of 1 – B	FINAL	MMC	JH	JH	20/05/2024
ORIGINATOR			APPROVER		
					
M MAC COURT Senior Engineering Geologist			J HANSON Director		

The report is not to be used for contractual or engineering purposes unless this sheet is signed and the report designated "Final".

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1. INTRODUCTION

It is proposed to redevelop and modernise the existing facilities at Falmouth Docks. Geotechnical Engineering Limited (GEL) was instructed by Ramboll (the Consultant) acting on behalf of A&P Falmouth (the Client) to carry out an investigation to determine the ground conditions.

The scope of works and terms and conditions of appointment were specified by the Consultant and GEL correspondence reference T34367 dated 13th June 2023. The investigation was carried out under direction of the Consultant.

Prior to commencement of works on site, GEL commissioned an Unexploded Ordnance Survey (UXO) desk study/risk assessment. The desk study undertaken by Brimstone UXO and the report presented separately.

This report describes the investigation and presents the findings.

2. SITE LOCATION AND GEOLOGY

The site is situated at A&P Falmouth Dockyard, Falmouth, TR11 4NR and may be located by its National Grid co-ordinates SW 817 327.

British Geological Survey (BGS) England and Wales (Sheet No. 352, 1:50:000, 1990) and the BGS online geology (1:50,000) indicate the site is underlain by Quaternary Deposits comprising Late Pleistocene Fluvial Sands and Graves, Periglacial Slop Deposits and Holocene Alluvium.

3. GROUND INVESTIGATION



3.1 Fieldwork

The fieldwork was carried out in general accordance with BS5930:2015+A1:2020 during the period 18th to 20th March 2024 and comprised twenty-one vibrocores.

The exploratory hole locations were selected by the Consultant and set out by CMS Geoscience and are shown on Figure 1. The ground levels corrected to Chart Datum and co-ordinates at each exploratory hole were established by CMS Geoscience using GPS techniques onboard the vessel.

The vibrocores, referenced VC-01, VC-02, VC-02A, VC-03, VC-05 to VC-07, VC-07A, VC-09, VC-11, VC-12A, VC-13A, VC-14 to VC-17, VC-19, VC-22, and VC-24 to VC-26 were formed using a vessel mounted vibrocore sampling sampler on board CMS Geoscience's vessel, Obervargh. Vibrocore sampling techniques were employed from seabed to produce a continuous disturbed sample of 70mm nominal diameter. The samples were recovered in semi-rigid plastic liner. The vibrocore samples were extracted from the sampler and the semi-rigid liner was cut to 1.0m lengths and caps placed at each end.

Samples for chemical analyses were dispatched from site directly to Socotec under a Chain of Custody.

3.2 Logging

The logging of soils was carried out by an Engineering Geologist in general accordance with BS5930:2015+A1:2020. A key to the exploratory hole logs is presented in Appendix A.

Detailed descriptions of the samples are given in the borehole logs, Appendix A, along with details of sampling and relevant comments on drilling techniques.



Prior to logging, photographs of the samples were taken and are presented in Appendix B of this report.

3.4 Laboratory Testing

A schedule of laboratory tests was prepared by the Consultant, the results are presented in Appendix C.

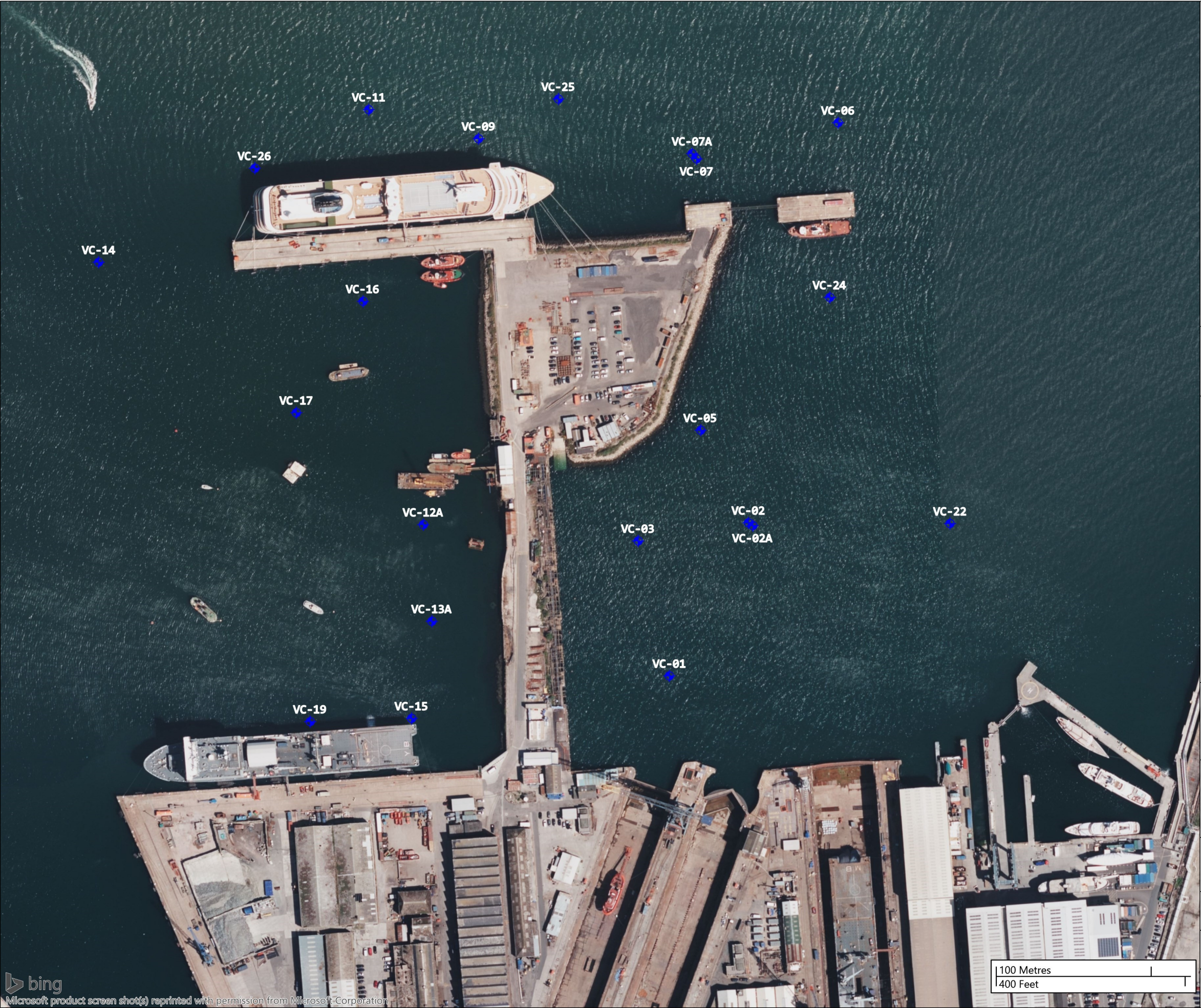
Selected samples were dispatched to Socotec, where chemical analyses were carried out to in-house methods for a suite of contaminants. The results are presented in Appendix C.

GEOTECHNICAL ENGINEERING LIMITED



4. REFERENCES

British Standards Institution (2015): Code of practice for ground investigations. BS 5930:2015+A1:2020.

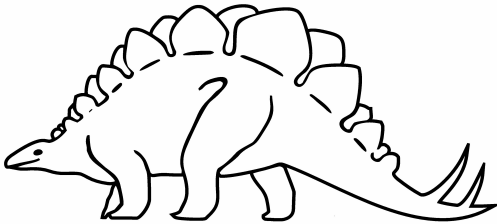


Key.
Denotes Vibrocore Location

North

Microsoft product screen shot(s) reprinted with permission from Microsoft Corporation

Notes:



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Client:		A&P FALMOUTH	
Site:		FALMOUTH DOCKS DEVELOPMENT	
Title: EXPLORATORY HOLE LOCATION PLAN			
Drawn By:	AC	Checked By:	MMC
Paper Size:		A3	
Scale:	1:2500	Date:	May 2024
Contract:	37977	Figure:	1



APPENDIX A

FIELDWORK DATA

KEY TO EXPLORATORY HOLE LOGS



Sample type

D	Small disturbed	U	Undisturbed	L	Dynamic	ES	Environmental - soil	CS	Core subsample (prepared)
B	Bulk disturbed	UT	Undisturbed thin wall	C	Core	EW	Environmental - water	LS	Dynamic subsample (prepared)
LB	Large bulk disturbed	P	Piston	VC	Vibrocore	W	Water		

Test type

S SPT - Split spoon sampler followed by uncorrected SPT 'N' Value

C SPT - Solid cone followed by uncorrected SPT 'N' Value

(*250 - Where full test drive not completed, linearly extrapolated 'N' value reported, ** - Denotes no effective penetration). Arrow length reflects test depth range.

H Hand vane - direct reading in kPa - not corrected for BS1377 (1990). Re* denotes refusal. Where the limit of the equipment is reached during a test, the reported value is the minimum recorded shear strength of the material.

M Mackintosh probe - number of blows to achieve 100mm penetration

Mx Mexe cone - average reading of equivalent CBR value in %

PP Pocket penetrometer - calculated reading in kPa

Vo Headspace vapour reading, uncorrected peak values in ppm, using a PID (calibrated with isobutylene, using a 10.6eV bulb)

TR In situ thermal resistivity by needle probe in mK/W

Sample/core range/lf

Dynamic sample

Undisturbed sample - open drive including thin wall. Symbol length reflects recovery

x

x = Total Core Recovery (TCR) as percentage of core run

y

y = Solid Core Recovery (SCR) as percentage of core run. Assessment of core is based on full diameter

z

z = Rock Quality Designation (RQD). The amount of solid core greater than 100mm expressed as percentage of core run

Where SPT has been carried out at the beginning of core run, disturbed section of core excluded from SCR and RQD assessment

lf

- fracture spacing - the modal fracture spacing (mm) over the indicated length of core. Where spacing varies significantly, the minimum, mode and maximum values are also given. NI = non-intact core NA = not applicable NR = no recovery

Instrumentation

Piezometer

Perforated standpipe

Inclinometer

Extensometer

Backfill

Granular response zone

Bentonite seal

Cement/ bentonite grout

Soil backfill

Concrete

Cover

Raised cover

Stopcock cover

Stratum boundaries

Estimated boundary

Grading boundary

Logging

The logging of soils and rocks has been carried out in general accordance with BS 5930:2015+A1:2020

Chalk is logged in general accordance with Lord et al (2002) CIRIA C574. Where possible, dynamic samples in chalk have been logged in accordance with CIRIA C574; descriptions and gradings (if presented) should be treated with caution given the potential for sample disturbance.

For rocks the term fracture has been used to identify a mechanical break within the core. Where possible incipient and drilling induced fractures have been excluded from the assessment of fracture state. Where doubt exists, a note has been made in the descriptions. All fractures are considered to be continuous unless otherwise reported.

Made Ground is readily identified when, within the natural make up, man made constituents are evident. Where Made Ground appears to be reworked natural material the differentiation between in situ natural deposits and Made Ground is much more difficult to ascertain. The interpretation of Made Ground within the logs should therefore be treated with caution.

The descriptors "topsoil" and "tarmacadam" are used as generic terms and do not imply conformation to any particular standard or composition.

Rootlets are defined as being less than 2mm in diameter, roots are defined as in excess of 2mm diameter.

General comments

The process of drilling and sampling will inevitably lead to sample disturbance, mixing or loss of material in some soil and rocks.

Indicated water levels are those recorded during the process of drilling or excavating exploratory holes and may not represent standing water levels.

All depths are measured along the axis of the borehole and are related to ground level at the point of entry. All inclinations are measured normal to the axis of the core.

Where provided, the stratigraphical names/geological rock units are for guidance only and may not be wholly accurate.

Key to Exploratory Hole Logs v09 14/03/2024 15:30 DC:EB

BOREHOLE LOG



VC-01

CLIENT A&P FALMOUTH

SITE FALMOUTH DOCKS DEVELOPMENT

Start Date 19 March 2024 Easting 181866 Sheet 1 of 1
End Date 19 March 2024 Northing 32704 Scale 1:50
Ground Level -8.50mOD Depth 3.90 m

sample no & type	sample depth (m) from to	casing depth (m)	samp. /core range	lf	water record depth (m)	instru- ment	test type & value	description	depth (m)	reduced level (m)	legend
1ES 1ES	0.00 - 0.10 0.00 - 3.65		94					Very soft black clayey SILT. Faint hydrocarbon and organic odour. 0.35m: Pocket (up to 60x30x40mm) of orangish brown clay.			
2ES	1.00 - 1.10							Soft locally thickly laminated grey CLAY with rare shell fragments (up to 50x30x5mm).	0.70	-9.20	
3ES	2.00 - 2.10										
4ES	3.00 - 3.10										
5ES	3.55 - 3.65							Firm orangish brown mottled greenish grey gravelly CLAY. Gravel is angular medium and coarse slate. No Recovery.	3.55 3.65	-12.05 -12.15	
								Borehole Completed at 3.90m	3.90	-12.40	

HOLE CONSTRUCTION				WATER STRIKE				
TOP (m)	BASE (m)	TYPE	PLANT USED	DEPTH (m)	CASING (m)	ROSE TO (m)	AFTER (min)	REMARKS
0.00	3.90	Vibrocore	High Performance Corer HPC04					
CASING DEPTH		BARREL DIAMETER		BACKFILL		INSTRUMENTATION		
DIAM (mm)	BASE (m)	DIAM (mm)	BASE (m)	TOP (m)	BASE (m)	MATERIAL	DEPTH (m)	TYPE
		84	3.90					
HOLE PROGRESS				REMARKS				
DATE TIME		DEPTH (m)	CASING (m)	WATER (m)				
19-03-2024 09:30		0.00	Nil					
19-03-2024 10:05		3.90	Nil					
				Samples recovered by vessel mounted vibrocoring method. Ground level presented as seabed level (Ordnance Datum).				
				CONTRACT		CHECKED		
				37977		JH		



VC-02

SITE FALMOUTH DOCKS DEVELOPMENT

End Date	19 March 2024	Northing	32801	Ground Level	-7.70mOD	Depth	1.10 m
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CONTRACT	CHECKED
37977	JH

BOREHOLE LOG



VC-02A

CLIENT A&P FALMOUTH

SITE FALMOUTH DOCKS DEVELOPMENT

Start Date 20 March 2024 Easting 181924 Sheet 1 of 1
End Date 20 March 2024 Northing 32799 Scale 1:50
Ground Level -7.70mOD Depth 1.80 m

sample no & type	sample depth (m) from to	casing depth (m)	samp. /core range	lf	water record depth (m)	instru- ment	test type & value	description	depth (m)	reduced level (m)	legend
1ES	0.00 - 0.10		83					Very soft black slightly gravelly clayey SILT with rare shell fragments (up to 85x80x3mm), seaweed stems (up to 140x100x5mm). Faint hydrocarbon odour.	0.20	-7.90	
2ES	1.00 - 1.10							Stiff becoming very stiff orangish brown and light greenish grey gravelly becoming very gravelly CLAY. Gravel is angular to subrounded fine to coarse siltstone and slate.			
3ES	1.40 - 1.50							No Recovery.	1.50	-9.20	
								Borehole Completed at 1.80m	1.80	-9.50	

HOLE CONSTRUCTION				WATER STRIKE				
TOP (m)	BASE (m)	TYPE	PLANT USED	DEPTH (m)	CASING (m)	ROSE TO (m)	AFTER (min)	REMARKS
0.00	1.50	Vibrocore	High Performance Corer HPC04					
CASING DEPTH		BARREL DIAMETER		BACKFILL		INSTRUMENTATION		
DIAM (mm)	BASE (m)	DIAM (mm)	BASE (m)	TOP (m)	BASE (m)	MATERIAL	DEPTH (m)	TYPE
		84	1.80					
HOLE PROGRESS				REMARKS				
DATE TIME		DEPTH (m)	CASING (m)	WATER (m)				
20-03-2024 16:15		0.00	Nil					
20-03-2024 16:40		1.80	Nil					
				Samples recovered by vessel mounted vibrocoring method. Ground level presented as seabed level (Ordnance Datum).				
				AGS				
				CONTRACT		CHECKED		
				37977		JH		

BOREHOLE LOG



VC-03

CLIENT A&P FALMOUTH

SITE FALMOUTH DOCKS DEVELOPMENT

Start Date 19 March 2024 Easting 181849 Sheet 1 of 1
End Date 19 March 2024 Northing 32792 Ground Level -9.00mOD Scale 1:50
Depth 3.60 m

sample no & type	sample depth (m) from to	casing depth (m)	samp. /core range	lf	water record depth (m)	instru- ment	test type & value	description	depth (m)	reduced level (m)	legend
1ES 1ES	0.00 - 0.10 0.00 - 3.10		86					Very soft black silty CLAY with a local veneer of possible hydrocarbons. Faint hydrocarbon odour.			
2ES	1.15 - 1.25										
3ES	2.00 - 2.10										
4ES	3.00 - 3.10							Greenish grey slightly sandy angular fine to coarse slate GRAVEL. 2.70m: Thick laminae of greenish grey clay.	2.60	-11.60	
								No Recovery.	3.10	-12.10	
								Borehole Completed at 3.60m	3.60	-12.60	

HOLE CONSTRUCTION				WATER STRIKE				
TOP (m)	BASE (m)	TYPE	PLANT USED	DEPTH (m)	CASING (m)	ROSE TO (m)	AFTER (min)	REMARKS
0.00	3.60	Vibrocore	High Performance Corer HPC04					
CASING DEPTH		BARREL DIAMETER		BACKFILL		INSTRUMENTATION		
DIAM (mm)	BASE (m)	DIAM (mm)	BASE (m)	TOP (m)	BASE (m)	MATERIAL	DEPTH (m)	TYPE
		84	3.60					
HOLE PROGRESS				REMARKS				
DATE TIME		DEPTH (m)	CASING (m)	WATER (m)				
19-03-2024 12:45		0.00	Nil					
19-03-2024 13:15		3.60	Nil					
				Samples recovered by vessel mounted vibrocoring method. Ground level presented as seabed level (Ordnance Datum).				
				AGS				
				CONTRACT		CHECKED		
				37977		JH		

BOREHOLE LOG



VC-05

CLIENT A&P FALMOUTH

SITE FALMOUTH DOCKS DEVELOPMENT

Start Date 19 March 2024 Easting 181892 Sheet 1 of 1
End Date 19 March 2024 Northing 32862 Scale 1:50
Ground Level -8.00mOD Depth 5.00 m

sample no & type	sample depth (m) from to	casing depth (m)	samp. /core range	lf	water record depth (m)	instru- ment	test type & value	description	depth (m)	reduced level (m)	legend
1ES	0.00 - 0.10		80					Very soft black clayey SILT. Faint hydrocarbon odour.			
								0.50 - 0.95m: Slightly gravelly. Gravel is angular and subangular fine to coarse coal and clinker.			
2ES	1.00 - 1.10							Dark grey slightly gravelly clayey fine SAND. Gravel is subangular and subrounded fine and medium crystalline.	0.95	-8.95	
								1.35 - 1.55m: Sandy angular to subrounded fine and medium crystalline, mudstone and possibly slate gravel.	1.50	-9.50	
3ES	2.00 - 2.10							Firm greenish grey mottled bluish grey slightly gravelly CLAY with rare relict rootlets. Gravel is angular fine to coarse slate.			
4ES	3.00 - 3.10										
5ES	3.90 - 4.00							3.90 - 4.00m: Gravelly.	4.00	-12.00	
								No Recovery.			
								Borehole Completed at 5.00m	5.00	-13.00	

HOLE CONSTRUCTION				WATER STRIKE			
TOP (m)	BASE (m)	TYPE	PLANT USED	DEPTH (m)	CASING (m)	ROSE TO (m)	AFTER (min)
0.00	5.00	Vibrocoring	High Performance Corer HPC04				REMARKS
CASING DEPTH		BARREL DIAMETER		BACKFILL		INSTRUMENTATION	
DIAM (mm)	BASE (m)	DIAM (mm)	BASE (m)	TOP (m)	BASE (m)	MATERIAL	DEPTH (m) TYPE
		84	5.00				
HOLE PROGRESS				REMARKS			
DATE TIME	DEPTH (m)	CASING (m)	WATER (m)	Samples recovered by vessel mounted vibrocoring method. Ground level presented as seabed level (Ordnance Datum).			
19-03-2024 14:00	0.00	Nil					
19-03-2024 14:35	5.00	Nil					
				CONTRACT		CHECKED	
				37977		JH	

BOREHOLE LOG



VC-06

CLIENT A&P FALMOUTH

SITE FALMOUTH DOCKS DEVELOPMENT

Sheet 1 of 1

Start Date 19 March 2024 Easting 181990

Scale 1:50

End Date 19 March 2024 Northing 33058 Ground Level -9.10mOD Depth 3.00 m

sample no & type	sample depth (m) from to	casing depth (m)	samp. /core range	lf	water record depth (m)	instru- ment	test type & value	description	depth (m)	reduced level (m)	legend
1ES	0.00 - 0.05		88					Very soft black slightly gravelly silty CLAY. Gravel is angular fine to coarse clinker and slate. Faint hydrocarbon odour (MADE GROUND) Very soft brown clayey SILT.	0.05	-9.15	
2ES	1.00 - 1.10							Firm light greenish grey gravelly CLAY. Gravel is angular fine to coarse slate and crystalline.	0.70	-9.80	
3ES	2.00 - 2.10							Greenish grey clayey angular fine to coarse mudstone GRAVEL.	1.70	-10.80	
4ES	2.55 - 2.65							Very weak and weak thinly and thickly laminated greenish grey SLATE recovered as angular medium and coarse gravel.	2.35	-11.45	
								No Recovery.	2.65	-11.75	
								Borehole Completed at 3.00m	3.00	-12.10	

HOLE CONSTRUCTION TOP (m) BASE (m) TYPE 0.00 3.00 Vibrocore				WATER STRIKE DEPTH (m) CASING (m) ROSE TO (m) AFTER (min) REMARKS			
CASING DEPTH DIAM (mm) BASE (m)		BARREL DIAMETER DIAM (mm) BASE (m)		BACKFILL TOP (m) BASE (m) MATERIAL		INSTRUMENTATION DEPTH (m) TYPE	
		84 3.00					
HOLE PROGRESS DATE TIME DEPTH (m) CASING (m) WATER (m) 19-03-2024 11:45 0.00 Nil 19-03-2024 12:35 3.00 Nil				REMARKS Samples recovered by vessel mounted vibrocoring method. Ground level presented as seabed level (Ordnance Datum).			
						AGS	
						CONTRACT 37977	
						CHECKED JH	

BOREHOLE LOG



VC-07

CLIENT A&P FALMOUTH

SITE FALMOUTH DOCKS DEVELOPMENT

Start Date 18 March 2024 Easting 181897 Sheet 1 of 1
End Date 18 March 2024 Northing 33038 Scale 1:50
Ground Level -9.30mOD Depth 1.40 m

sample no & type	sample depth (m) from to	casing depth (m)	samp. /core range	lf	water record depth (m)	instru- ment	test type & value	description	depth (m)	reduced level (m)	legend
1ES	0.00 - 0.10		93					Black and dark greenish grey clayey fine SAND with rare shell fragments (up to 70x43x10mm). Greenish grey clayey angular fine to coarse slate GRAVEL.	0.25	-9.55	
2ES	1.00 - 1.10							Very weak and weak thinly and thickly laminated greenish grey SLATE recovered as angular fine to coarse gravel.	1.05	-10.35	
3ES	1.20 - 1.30							No Recovery.	1.30	-10.60	
								Borehole Completed at 1.40m	1.40	-10.70	

HOLE CONSTRUCTION				WATER STRIKE				
TOP (m)	BASE (m)	TYPE	PLANT USED	DEPTH (m)	CASING (m)	ROSE TO (m)	AFTER (min)	REMARKS
0.00	1.40	Vibrocore	High Performance Corer HPC04					
CASING DEPTH		BARREL DIAMETER		BACKFILL		INSTRUMENTATION		
DIAM (mm)	BASE (m)	DIAM (mm)	BASE (m)	TOP (m)	BASE (m)	MATERIAL	DEPTH (m)	TYPE
		84	1.40					
HOLE PROGRESS				REMARKS				
DATE TIME		DEPTH (m)	CASING (m)	WATER (m)				
18-03-2024 18:30		0.00	Nil					
18-03-2024 18:55		1.40	Nil					
				Samples recovered by vessel mounted vibrocoring method. Ground level presented as seabed level (Ordnance Datum).				
				AGS				
				CONTRACT		CHECKED		
				37977		JH		

BOREHOLE LOG



VC-07A

CLIENT A&P FALMOUTH

SITE FALMOUTH DOCKS DEVELOPMENT

Start Date 20 March 2024 Easting 181894 Sheet 1 of 1
End Date 20 March 2024 Northing 33042 Scale 1:50
Ground Level -9.30mOD Depth 2.50 m

sample no & type	sample depth (m) from to	casing depth (m)	samp. /core range	lf	water record depth (m)	instru- ment	test type & value	description	depth (m)	reduced level (m)	legend
1ES 1ES	0.00 - 0.10 0.00 - 2.20		88					Very soft clayey SILT with rare shell fragments (up to 55x45x12mm). Faint hydrocarbon odour.	0.35	-9.65	
								Very soft dark grey mottled greenish grey slightly sandy gravelly CLAY. Gravel is angular to subrounded fine to coarse slate and crystalline.			
2ES	1.00 - 1.10							Stiff light greenish grey gravelly becoming very gravelly CLAY. Gravel is angular fine to coarse slate.	0.95	-10.25	
3ES	2.00 - 2.10							Very weak thinly laminated greenish grey SLATE recovered as clayey angular fine to coarse gravel.	1.90	-11.20	
								No Recovery.	2.20	-11.50	
								Borehole Completed at 2.50m	2.50	-11.80	

HOLE CONSTRUCTION				WATER STRIKE				
TOP (m)	BASE (m)	TYPE		DEPTH (m)	CASING (m)	ROSE TO (m)	AFTER (min)	REMARKS
0.00	2.50	Vibrocore						
PLANT USED								
High Performance Corer								
HPC04								
CASING DEPTH		BARREL DIAMETER		BACKFILL		INSTRUMENTATION		
DIAM (mm)	BASE (m)	DIAM (mm)	BASE (m)	TOP (m)	BASE (m)	MATERIAL	DEPTH (m)	TYPE
		84	2.50					
HOLE PROGRESS				REMARKS				
DATE TIME		DEPTH (m)	CASING (m)	WATER (m)				
20-03-2024 15:35		0.00	Nil					
20-03-2024 16:15		2.50	Nil					
				Samples recovered by vessel mounted vibrocoring method.				
				Ground level presented as seabed level (Ordnance Datum).				
				AGS				
				CONTRACT		CHECKED		
				37977		JH		

BOREHOLE LOG



VC-09

CLIENT A&P FALMOUTH

SITE FALMOUTH DOCKS DEVELOPMENT

Start Date 18 March 2024

Easting 181756

End Date 18 March 2024

Northing 33057

Ground Level -10.60mOD

Sheet 1 of 1
Scale 1:50
Depth 6.00 m

sample no & type	sample depth (m) from to	casing depth (m)	samp. /core range	lf	water record depth (m)	instru- ment	test type & value	description	depth (m)	reduced level (m)	legend
1ES 1ES	0.00 - 0.10 0.00 - 5.60		95					Very soft black slightly sandy gravelly CLAY with abundant fragments of coral (Maerl) (up to 3mm diam) . Gravel is angular and subangular fine to coarse possible clinker. Faint hydrocarbon odour (MADE GROUND)	0.25	-10.85	
2ES	1.00 - 1.10							Very soft greenish grey CLAY with abundant shell fragments (up to 27x25x15mm). Strong organic odour.			
3ES	2.00 - 2.10										
4ES	3.00 - 3.10										
5ES	4.00 - 4.10							4.00 - 4.40m: With rare shell fragments (up to 5x5x3mm).			
6ES	5.00 - 5.10							Very soft grey bluish grey gravelly CLAY. Gravel is angular and subangular fine to coarse slate.	4.40	-15.00	
								Very weak thinly and thickly laminated bluish grey SLATE recovered as angular fine to coarse slate gravel. Bedding surfaces are stained greenish grey.	5.00	-15.60	
								No Recovery.	5.70	-16.30	
								Borehole Completed at 6.00m	6.00	-16.60	

HOLE CONSTRUCTION				WATER STRIKE			
TOP (m)	BASE (m)	TYPE	PLANT USED	DEPTH (m)	CASING (m)	ROSE TO (m)	AFTER (min)
0.00	6.00	Vibrocoring	High Performance Corer HPC04				REMARKS
CASING DEPTH		BARREL DIAMETER		BACKFILL		INSTRUMENTATION	
DIAM (mm)	BASE (m)	DIAM (mm)	BASE (m)	TOP (m)	BASE (m)	MATERIAL	DEPTH (m) TYPE
		84	6.00				
HOLE PROGRESS				REMARKS			
DATE TIME	DEPTH (m)	CASING (m)	WATER (m)	Samples recovered by vessel mounted vibrocoring method. Ground level presented as seabed level (Ordnance Datum).			
18-03-2024 17:35	0.00	Nil					
18-03-2024 18:30	6.00	Nil					
				CONTRACT		CHECKED	
				37977		JH	

BOREHOLE LOG



VC-11

CLIENT A&P FALMOUTH

SITE FALMOUTH DOCKS DEVELOPMENT

Start Date 18 March 2024

Easting 181686

End Date 18 March 2024

Northing 33079

Ground Level -10.00mOD

Sheet 1 of 1
Scale 1:50
Depth 6.00 m

sample no & type	sample depth (m) from to	casing depth (m)	samp. /core range	lf	water record depth (m)	instru- ment	test type & value	description	depth (m)	reduced level (m)	legend
1ES	0.00 - 0.10		90					Very soft greenish grey CLAY with frequent coral (Maerl) fragments (up to 5x3x3mm). Strong organic odour. 0.00 - 0.10m: Black plastic amorphous Peat.			
2ES	1.00 - 1.10										
3ES	2.00 - 2.10										
								Very soft greenish grey silty CLAY with abundant shell fragments (up to 20x15x5mm).	2.15	-12.15	
4ES	3.00 - 3.10										
								Very soft greenish grey silty CLAY with rare locally frequent shell fragments (up to 5mm diam). 3.35m: Shell fragment (90x70x20mm). 3.45 - 3.55m: Subvertical planar smooth fissure.	3.10	-13.10	
5ES	4.00 - 4.10										
6ES	5.00 - 5.10										
7ES	5.30 - 5.37										
								No Recovery.	5.37	-15.37	
								Borehole Completed at 6.00m	6.00	-16.00	

HOLE CONSTRUCTION				WATER STRIKE			
TOP (m)	BASE (m)	TYPE	PLANT USED	DEPTH (m)	CASING (m)	ROSE TO (m)	AFTER (min)
0.00	6.00	Vibrocoring	High Performance Corer HPC04				REMARKS

CASING DEPTH		BARREL DIAMETER		BACKFILL		INSTRUMENTATION	
DIAM (mm)	BASE (m)	DIAM (mm)	BASE (m)	TOP (m)	BASE (m)	DEPTH (m)	TYPE
		84	6.00				

HOLE PROGRESS				REMARKS	
DATE TIME	DEPTH (m)	CASING (m)	WATER (m)	Samples recovered by vessel mounted vibrocoring method. Ground level presented as seabed level (Ordnance Datum).	
18-03-2024 16:40	0.00	Nil			
18-03-2024 17:35	6.00	Nil			
				CONTRACT	CHECKED
				37977	JH

BOREHOLE LOG



VC-12A

CLIENT A&P FALMOUTH

SITE FALMOUTH DOCKS DEVELOPMENT

Start Date 20 March 2024 Easting 181710 Sheet 1 of 1
End Date 20 March 2024 Northing 32809 Ground Level -9.00mOD Scale 1:50
Depth 5.80 m

sample no & type	sample depth (m) from to	casing depth (m)	samp. /core range	lf	water record depth (m)	instru- ment	test type & value	description	depth (m)	reduced level (m)	legend
1ES 1ES	0.00 - 0.10 0.00 - 5.20		90					Very soft black clayey SILT. Strong hydrocarbon odour.			
2ES	1.00 - 1.10							Very soft grey slightly sandy CLAY with frequent shell fragments (up to 5x3x2mm). Faint hydrocarbon odour.	1.30	-10.30	
3ES	2.00 - 2.10							Very soft locally greenish grey silty CLAY with rare locally frequent shell fragments (up to 5x3x3mm). Strong organic odour. 1.70 - 1.90m: 80° to subvertical planar smooth polished fissure. 2.30 - 2.60m: Fissures are 80° to subvertical extremely closely spaced planar smooth.	1.65	-10.65	
4ES	3.00 - 3.10										
5ES	4.00 - 4.10										
6ES	5.00 - 5.10							4.70 - 5.10m: Extremely closely to closely spaced thin laminae of dark greyish brown silty clay.			
								No Recovery.	5.20	-14.20	
								Borehole Completed at 5.80m	5.80	-14.80	

HOLE CONSTRUCTION				WATER STRIKE				
TOP (m)	BASE (m)	TYPE	PLANT USED	DEPTH (m)	CASING (m)	ROSE TO (m)	AFTER (min)	REMARKS
0.00	5.80	Vibrocore	High Performance Corer HPC04					
CASING DEPTH		BARREL DIAMETER		BACKFILL		INSTRUMENTATION		
DIAM (mm)	BASE (m)	DIAM (mm)	BASE (m)	TOP (m)	BASE (m)	MATERIAL	DEPTH (m)	TYPE
		84	5.80					
HOLE PROGRESS				REMARKS				
DATE TIME		DEPTH (m)	CASING (m)	WATER (m)				
20-03-2024 14:40		0.00	Nil					
20-03-2024 15:20		5.80	Nil					
				Samples recovered by vessel mounted vibrocoring method. Ground level presented as seabed level (Ordnance Datum).				
				CONTRACT		CHECKED		
				37977		JH		

BOREHOLE LOG



VC-13A

CLIENT A&P FALMOUTH

SITE FALMOUTH DOCKS DEVELOPMENT

Start Date 20 March 2024 Easting 181713 Sheet 1 of 1
End Date 20 March 2024 Northing 32746 Scale 1:50
Ground Level -9.90mOD Depth 1.10 m

sample no & type	sample depth (m) from to	casing depth (m)	samp. /core range	lf	water record depth (m)	instru- ment	test type & value	description	depth (m)	reduced level (m)	legend
1ES	0.00 - 0.80		73					Limited recovery. Recovered as very soft black clayey SILT with a thin veneer of hydrocarbon and rare fragments of rubber (up to 80x50x25mm) and abundant fragments of wood (up to 80x60x35mm). Very strong hydrocarbon odour. (MADE GROUND) No Recovery.	0.80	-10.70	
								Borehole Completed at 1.10m	1.10	-11.00	

HOLE CONSTRUCTION				WATER STRIKE				
TOP (m)	BASE (m)	TYPE	PLANT USED	DEPTH (m)	CASING (m)	ROSE TO (m)	AFTER (min)	REMARKS
0.00	1.10	Vibrocore	High Performance Corer HPC04					
CASING DEPTH		BARREL DIAMETER		BACKFILL		INSTRUMENTATION		
DIAM (mm)	BASE (m)	DIAM (mm)	BASE (m)	TOP (m)	BASE (m)	MATERIAL	DEPTH (m)	TYPE
		84	1.10					
HOLE PROGRESS				REMARKS				
DATE TIME		DEPTH (m)	CASING (m)	WATER (m)				
20-03-2024 16:40		0.00	Nil					
20-03-2024 17:10		1.10	Nil					
				Samples recovered by vessel mounted vibrocoring method. Ground level presented as seabed level (Ordnance Datum).				
				CONTRACT		CHECKED		
				37977		JH		

BOREHOLE LOG



VC-14

CLIENT A&P FALMOUTH

SITE FALMOUTH DOCKS DEVELOPMENT

Start Date 20 March 2024 Easting 181506 Sheet 1 of 1
End Date 20 March 2024 Northing 32987 Ground Level -10.00mOD Scale 1:50
Depth 5.90 m

sample no & type	sample depth (m) from to	casing depth (m)	samp. /core range	lf	water record depth (m)	instru- ment	test type & value	description	depth (m)	reduced level (m)	legend
1ES	0.00 - 0.10		90					Very soft black clayey SILT with abundant fragments of coral (Maerl) (10x9x5mm), abundant shell fragments (up to 13x3x2mm). Faint hydrocarbon odour.	0.20	-10.20	
2ES	1.00 - 1.10							Soft grey sandy CLAY with abundant fragments of coral (Maerl), frequent shell fragments (up to 31x26x15mm). Strong organic odour.	0.85	-10.85	
3ES	2.00 - 2.10										
4ES	3.00 - 3.10										
5ES	4.00 - 4.10										
6ES	5.10 - 5.20										
								No Recovery.	5.30	-15.30	
								Borehole Completed at 5.90m	5.90	-15.90	

HOLE CONSTRUCTION				WATER STRIKE			
TOP (m)	BASE (m)	TYPE	PLANT USED	DEPTH (m)	CASING (m)	ROSE TO (m)	AFTER (min) REMARKS
0.00	5.90	Vibrocoring	High Performance Corer HPC04				

CASING DEPTH		BARREL DIAMETER		BACKFILL		INSTRUMENTATION	
DIAM (mm)	BASE (m)	DIAM (mm)	BASE (m)	TOP (m)	BASE (m) MATERIAL	DEPTH (m)	TYPE
		84	5.90				

HOLE PROGRESS				REMARKS	
DATE TIME	DEPTH (m)	CASING (m)	WATER (m)	Samples recovered by vessel mounted vibrocoring method. Ground level presented as seabed level (Ordnance Datum).	
20-03-2024 09:35	0.00	Nil			
20-03-2024 10:15	5.90	Nil			
				CONTRACT	CHECKED
				37977	JH

BOREHOLE LOG



VC-15

CLIENT A&P FALMOUTH

SITE FALMOUTH DOCKS DEVELOPMENT

Start Date 20 March 2024 Easting 181697 Sheet 1 of 1
End Date 20 March 2024 Northing 32684 Scale 1:50
Ground Level -11.60mOD Depth 1.15 m

sample no & type	sample depth (m) from to	casing depth (m)	samp. /core range	lf	water record depth (m)	instru- ment	test type & value	description	depth (m)	reduced level (m)	legend
1ES	0.00 - 0.10		96					Very soft black slightly gravelly clayey SILT with rare fragments of fabric (up to 100x55x5mm). Gravel is angular medium and coarse clinker. Strong hydrocarbon odour. (MADE GROUND)	0.40	-12.00	
2ES	1.00 - 1.10							Greenish grey and dark bluish grey slightly sandy clayey angular fine to coarse slate GRAVEL.	1.10	-12.70	
								No Recovery.	1.15	-12.75	
								Borehole Completed at 1.15m			

HOLE CONSTRUCTION				WATER STRIKE				
TOP (m)	BASE (m)	TYPE		DEPTH (m)	CASING (m)	ROSE TO (m)	AFTER (min)	REMARKS
0.00	1.15	Vibrocore						
		PLANT USED						
		High Performance Corer						
		HPC04						

CASING DEPTH		BARREL DIAMETER		BACKFILL		INSTRUMENTATION		
DIAM (mm)	BASE (m)	DIAM (mm)	BASE (m)	TOP (m)	BASE (m)	MATERIAL	DEPTH (m)	TYPE
		84	1.15					

HOLE PROGRESS				REMARKS			
DATE TIME		DEPTH (m)	CASING (m)	WATER (m)			
20-03-2024 12:25		0.00	Nil				
20-03-2024 13:00		1.15	Nil				
				Samples recovered by vessel mounted vibrocoring method. Ground level presented as seabed level (Ordnance Datum).			

AGS

CONTRACT

37977

CHECKED

JH

BOREHOLE LOG



VC-16

CLIENT A&P FALMOUTH

SITE FALMOUTH DOCKS DEVELOPMENT

Start Date 19 March 2024

Easting 181677

End Date 19 March 2024

Northing 32955

Ground Level -9.90mOD

Sheet 1 of 1
Scale 1:50
Depth 6.00 m

sample no & type	sample depth (m) from to	casing depth (m)	samp. /core range	lf	water record depth (m)	instru- ment	test type & value	description	depth (m)	reduced level (m)	legend
1ES 1ES	0.00 - 0.10 0.00 - 5.10		85					Very soft black slightly gravelly clayey SILT with rare fragments of wood (up to 70x18x10mm). Gravel is angular and subangular medium and coarse clinker rarely glass. Strong hydrocarbon odour. (MADE GROUND)			
2ES	1.00 - 1.10							1.15 - 1.40m: Dark grey slightly sandy silty clay.	1.40	-11.30	
3ES	2.00 - 2.10							Very soft locally thinly laminated greenish grey silty CLAY with abundant becoming frequent shell fragments (up to 30x32x5mm). Strong organic odour.			
4ES	3.00 - 3.10							2.50 - 4.30m: Locally fissured. Fissures are 30-40° very closely spaced and 80°-subvertical planar smooth polished.			
5ES	4.00 - 4.10										
6ES	5.00 - 5.10							No Recovery.	5.10	-15.00	
								Borehole Completed at 6.00m	6.00	-15.90	

HOLE CONSTRUCTION				WATER STRIKE			
TOP (m)	BASE (m)	TYPE	PLANT USED	DEPTH (m)	CASING (m)	ROSE TO (m)	AFTER (min)
0.00	6.00	Vibrocoring	High Performance Corer HPC04				

CASING DEPTH		BARREL DIAMETER		BACKFILL		INSTRUMENTATION	
DIAM (mm)	BASE (m)	DIAM (mm)	BASE (m)	TOP (m)	BASE (m)	DEPTH (m)	TYPE
		84	6.00				

HOLE PROGRESS				REMARKS	
DATE TIME	DEPTH (m)	CASING (m)	WATER (m)	Samples recovered by vessel mounted vibrocoring method. Ground level presented as seabed level (Ordnance Datum).	
19-03-2024 08:05	0.00	Nil			
19-03-2024 08:55	6.00	Nil			
				CONTRACT	CHECKED
				37977	JH

BOREHOLE LOG



VC-17

CLIENT A&P FALMOUTH

SITE FALMOUTH DOCKS DEVELOPMENT

Start Date 20 March 2024

Easting 181630

Sheet 1 of 1

End Date 20 March 2024

Northing 328865

Ground Level -8.00mOD

Scale 1:50

Depth 6.00 m

sample no & type	sample depth (m) from to	casing depth (m)	samp. /core range	lf	water record depth (m)	instru- ment	test type & value	description	depth (m)	reduced level (m)	legend
1ES	0.00 - 0.10		88					Very soft black clayey SILT with rare fragments of wood (up to 90x25x15mm) and rare glass. Strong hydrocarbon odour. (MADE GROUND)	0.35	-8.35	
2ES	1.00 - 1.10							Very soft grey slightly sandy silty CLAY with frequent shell fragments (up to 30x20x5mm).			
								1.35 - 1.45m: Grey silty clay.			
								1.60 - 1.70m: Black clayey silt.			
								1.70 - 1.85m: Grey silty clay.			
3ES	2.00 - 2.10							Very soft greenish grey silty CLAY with abundant shell fragments (up to 100x70x25mm). Strong organic odour.	2.20	-10.20	
4ES	3.00 - 3.10										
5ES	4.00 - 4.10										
6ES	5.10 - 5.20										
								No Recovery.	5.30	-13.30	
								Borehole Completed at 6.00m	6.00	-14.00	

HOLE CONSTRUCTION				WATER STRIKE			
TOP (m)	BASE (m)	TYPE	PLANT USED	DEPTH (m)	CASING (m)	ROSE TO (m)	AFTER (min)
0.00	6.00	Vibrocoring	High Performance Corer HPC04				
CASING DEPTH		BARREL DIAMETER		BACKFILL		INSTRUMENTATION	
DIAM (mm)	BASE (m)	DIAM (mm)	BASE (m)	TOP (m)	BASE (m)	DEPTH (m)	TYPE
		84	6.00				
HOLE PROGRESS				REMARKS			
DATE TIME	DEPTH (m)	CASING (m)	WATER (m)	Samples recovered by vessel mounted vibrocoring method. Ground level presented as seabed level (Ordnance Datum).			
20-03-2024 10:45	0.00	Nil					
20-03-2024 11:10	6.00	Nil					
				CONTRACT		CHECKED	
				37977		JH	

BOREHOLE LOG



VC-19

CLIENT A&P FALMOUTH

SITE FALMOUTH DOCKS DEVELOPMENT

Start Date 20 March 2024 Easting 181631 Sheet 1 of 1
End Date 20 March 2024 Northing 32684 Scale 1:50
Ground Level -11.30mOD Depth 6.00 m

sample no & type	sample depth (m) from to	casing depth (m)	samp. /core range	lf	water record depth (m)	instru- ment	test type & value	description	depth (m)	reduced level (m)	legend
1ES 1ES	0.00 - 0.10 0.00 - 5.60		93					Very soft black slightly sandy slightly gravelly silty CLAY. Gravel is angular coarse clinker. Faint hydrocarbon odour (MADE GROUND)	0.50	-11.80	
2ES	1.00 - 1.10							Soft greenish grey silty CLAY with frequent shell fragments (up to 13x11x10mm). Strong organic odour.			
3ES	2.00 - 2.10										
4ES	3.00 - 3.10										
5ES	4.00 - 4.10										
6ES	5.00 - 5.10							Very soft greenish grey silty CLAY.	4.85	-16.15	
7ES	5.50 - 5.60							5.25m: Thin laminae of grey fine and medium sand.			
								No Recovery.	5.60	-16.90	
								Borehole Completed at 6.00m	6.00	-17.30	

HOLE CONSTRUCTION				WATER STRIKE			
TOP (m)	BASE (m)	TYPE	PLANT USED	DEPTH (m)	CASING (m)	ROSE TO (m)	AFTER (min)
0.00	6.00	Vibrocoring	High Performance Corer HPC04				

CASING DEPTH		BARREL DIAMETER		BACKFILL		INSTRUMENTATION	
DIAM (mm)	BASE (m)	DIAM (mm)	BASE (m)	TOP (m)	BASE (m)	DEPTH (m)	TYPE
		84	6.00				

HOLE PROGRESS				REMARKS	
DATE TIME	DEPTH (m)	CASING (m)	WATER (m)	Samples recovered by vessel mounted vibrocoring method. Ground level presented as seabed level (Ordnance Datum).	
20-03-2024 11:50	0.00	Nil			
20-03-2024 12:25	6.00	Nil			
				CONTRACT	CHECKED
				37977	JH

BOREHOLE LOG



VC-22

CLIENT A&P FALMOUTH

SITE FALMOUTH DOCKS DEVELOPMENT

Start Date 19 March 2024 Easting 182052 Sheet 1 of 1
End Date 19 March 2024 Northing 32795 Ground Level -7.60mOD Scale 1:50
Depth 1.30 m

sample no & type	sample depth (m) from to	casing depth (m)	samp. /core range	lf	water record depth (m)	instru- ment	test type & value	description	depth (m)	reduced level (m)	legend
1ES	0.00 - 0.10		85					Very soft black silty CLAY.			
								Grey and brown fine to coarse SAND and angular fine to coarse slate and quartz GRAVEL.	0.50	-8.10	
2ES	1.00 - 1.10							Greenish grey clayey angular fine to coarse slate and quartz GRAVEL.	0.85	-8.45	
								0.90 - 1.00m: Orangish brown.	1.10	-8.70	
								No Recovery.	1.30	-8.90	
								Borehole Completed at 1.30m			

HOLE CONSTRUCTION				WATER STRIKE			
TOP (m)	BASE (m)	TYPE	PLANT USED	DEPTH (m)	CASING (m)	ROSE TO (m)	AFTER (min) REMARKS
0.00	1.30	Vibrocoring	High Performance Corer HPC04				

CASING DEPTH		BARREL DIAMETER		BACKFILL		INSTRUMENTATION	
DIAM (mm)	BASE (m)	DIAM (mm)	BASE (m)	TOP (m)	BASE (m) MATERIAL	DEPTH (m)	TYPE
		84	1.30				

HOLE PROGRESS				REMARKS	
DATE TIME	DEPTH (m)	CASING (m)	WATER (m)	Samples recovered by vessel mounted vibrocoring method. Ground level presented as seabed level (Ordnance Datum).	
19-03-2024 15:30	0.00	Nil			
19-03-2024 16:15	1.30	Nil			
				CONTRACT	CHECKED
				37977	JH

BOREHOLE LOG



VC-24

CLIENT A&P FALMOUTH

SITE FALMOUTH DOCKS DEVELOPMENT

Start Date 19 March 2024 Easting 181980 Sheet 1 of 1
End Date 19 March 2024 Northing 32945 Scale 1:50
Ground Level -8.40mOD Depth 2.50 m

sample no & type	sample depth (m) from to	casing depth (m)	samp. /core range	lf	water record depth (m)	instru- ment	test type & value	description	depth (m)	reduced level (m)	legend
1ES 1ES	0.00 - 0.10 0.00 - 2.10		88					Very soft black slightly sandy slightly gravelly silty CLAY. Gravel is angular fine to coarse slate. Soft becoming firm orangish brown mottled light grey silty CLAY with rare relict rootlets.	0.15	-8.55	
2ES	1.00 - 1.10										
3ES	1.90 - 2.00							Very weak thinly and thickly laminated greenish grey SLATE recovered as angular medium and coarse gravel. No Recovery.	1.90 2.20	-10.30 -10.60	
								Borehole Completed at 2.50m	2.50	-10.90	

HOLE CONSTRUCTION				WATER STRIKE					
TOP (m)	BASE (m)	TYPE		PLANT USED	DEPTH (m)	CASING (m)	ROSE TO (m)	AFTER (min)	REMARKS
0.00	2.50	Vibrocore		High Performance Corer HPC04					
CASING DEPTH			BARREL DIAMETER		BACKFILL			INSTRUMENTATION	
DIAM (mm)	BASE (m)		DIAM (mm)	BASE (m)	TOP (m)	BASE (m)	MATERIAL	DEPTH (m)	TYPE
			84	2.50					
HOLE PROGRESS					REMARKS				
DATE TIME		DEPTH (m)	CASING (m)	WATER (m)	Samples recovered by vessel mounted vibrocoring method. Ground level presented as seabed level (Ordnance Datum).				
19-03-2024 16:22		0.00	Nil						
19-03-2024 17:10		2.50	Nil						
					CONTRACT		CHECKED		
					37977		JH		

BOREHOLE LOG



VC-25

CLIENT A&P FALMOUTH

SITE FALMOUTH DOCKS DEVELOPMENT

Start Date 19 March 2024

Easting 181809

End Date 19 March 2024

Northing 33081

Ground Level -9.50mOD

Sheet 1 of 1
Scale 1:50
Depth 4.90 m

sample no & type	sample depth (m) from to	casing depth (m)	samp. /core range	lf	water record depth (m)	instru- ment	test type & value	description	depth (m)	reduced level (m)	legend
1ES	0.00 - 0.10		82					Very soft greenish grey silty CLAY with abundant fragments of coral (Maerl) (up to 3mm diam). Strong organic odour.	0.30	-9.80	
2ES	1.00 - 1.10							Very soft greenish grey silty clay with frequent locally abundant shell fragments (up to 35x43x10mm). Strong organic odour.			
								0.90m: Very thin bed of greenish grey fine sand with abundant shell fragments (up to 8x3x2mm).			
3ES	2.00 - 2.10										
4ES	3.00 - 3.10										
5ES	3.90 - 4.00							Very weak and weak bluish grey becoming greenish grey SLATE recovered as a clayey sandy angular fine to coarse gravel.	3.75	-13.25	
								No Recovery.	4.00	-13.50	
								Borehole Completed at 4.90m	4.90	-14.40	

HOLE CONSTRUCTION				WATER STRIKE			
TOP (m)	BASE (m)	TYPE	PLANT USED	DEPTH (m)	CASING (m)	ROSE TO (m)	AFTER (min)
0.00	4.90	Vibrocoring	High Performance Corer HPC04				
CASING DEPTH		BARREL DIAMETER		BACKFILL		INSTRUMENTATION	
DIAM (mm)	BASE (m)	DIAM (mm)	BASE (m)	TOP (m)	BASE (m)	DEPTH (m)	TYPE
		84	4.90				
HOLE PROGRESS				REMARKS			
DATE TIME	DEPTH (m)	CASING (m)	WATER (m)	Samples recovered by vessel mounted vibrocoring method. Ground level presented as seabed level (Ordnance Datum).			
19-03-2024 17:55	0.00	Nil					
19-03-2024 18:45	4.90	Nil					
				CONTRACT		CHECKED	
				37977		JH	

BOREHOLE LOG



VC-26

CLIENT A&P FALMOUTH

SITE FALMOUTH DOCKS DEVELOPMENT

Start Date 20 March 2024

Easting 181610

End Date 20 March 2024

Northing 33044

Ground Level -10.60mOD

Sheet 1 of 1

Scale 1:50

Depth 5.90 m

sample no & type	sample depth (m) from to	casing depth (m)	samp. /core range	lf	water record depth (m)	instru- ment	test type & value	description	depth (m)	reduced level (m)	legend
1ES 1ES	0.00 - 0.10 0.00 - 5.20		88					Very soft black slightly gravelly clayey SILT with frequent shell fragments (up to 30x23x8mm). Gravel is angular coarse clinker. Faint hydrocarbon odour (MADE GROUND) / Very soft greenish grey silty CLAY with abundant shell fragments (up to 30x20x14mm). Strong organic odour.	0.35	-10.95	
2ES	1.00 - 1.10										
3ES	2.00 - 2.10							2.20 - 2.45m: 80° to subvertical planar smooth polished fissure.			
4ES	3.00 - 3.10							2.90 - 3.00m: 80° to subvertical planar smooth polished fissure.			
5ES	4.00 - 4.10										
6ES	5.10 - 5.20							No Recovery.	5.20	-15.80	
								Borehole Completed at 5.90m	5.90	-16.50	

HOLE CONSTRUCTION				WATER STRIKE			
TOP (m)	BASE (m)	TYPE	PLANT USED	DEPTH (m)	CASING (m)	ROSE TO (m)	AFTER (min)
0.00	5.90	Vibrocoring	High Performance Corer HPC04				REMARKS

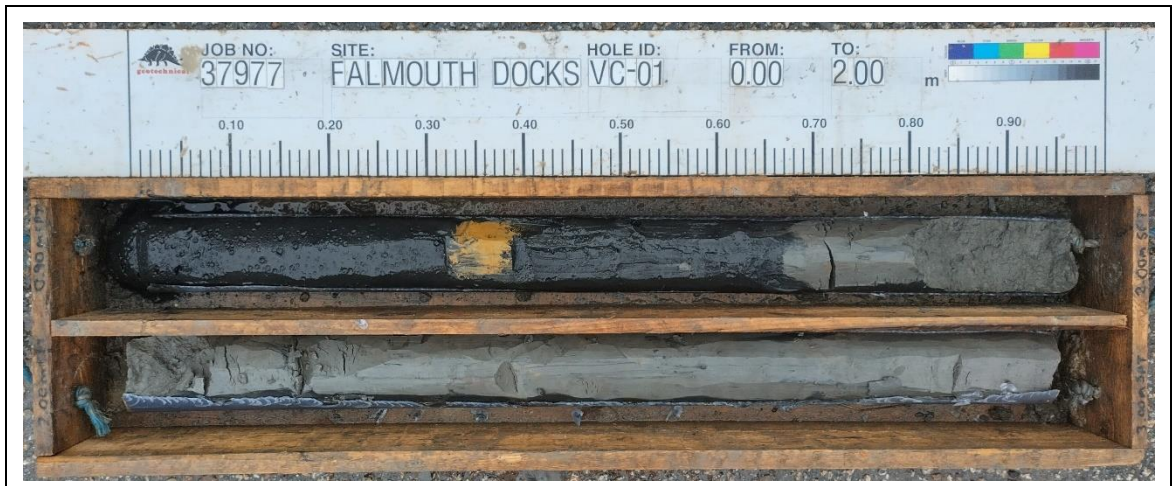
CASING DEPTH		BARREL DIAMETER		BACKFILL		INSTRUMENTATION	
DIAM (mm)	BASE (m)	DIAM (mm)	BASE (m)	TOP (m)	BASE (m)	DEPTH (m)	TYPE
		84	5.90				

HOLE PROGRESS				REMARKS	
DATE TIME	DEPTH (m)	CASING (m)	WATER (m)	Samples recovered by vessel mounted vibrocoring method. Ground level presented as seabed level (Ordnance Datum).	
20-03-2024 08:55	0.00	Nil			
20-03-2024 09:30	5.90	Nil			
				CONTRACT	CHECKED
				37977	JH



APPENDIX B

PHOTOGRAPHS



Borehole: VC-01 Box 01: 0.00-2.00m



Borehole: VC-01 Box 02: 2.00-3.55m



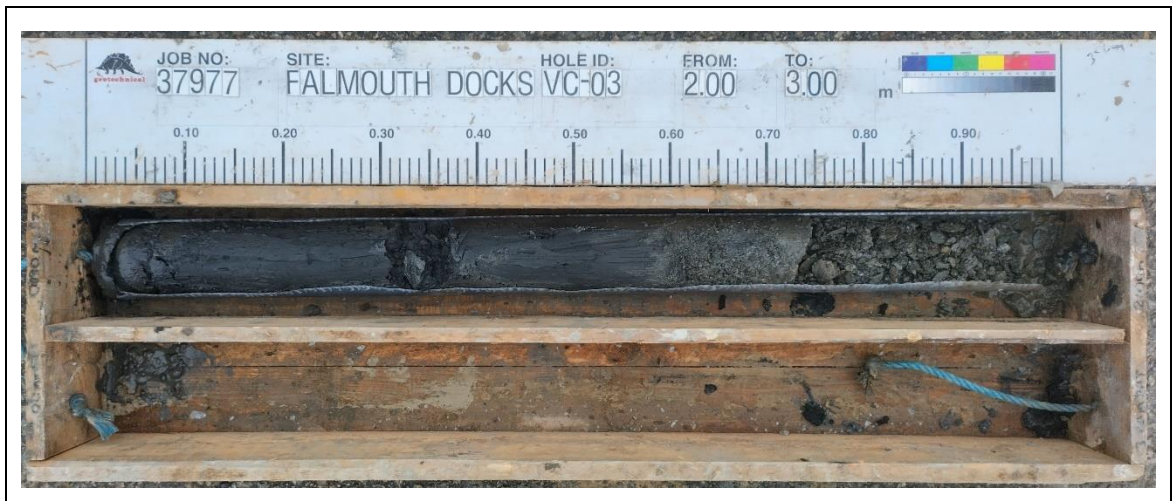
Borehole: VC-02 Box 01: 0.00-0.90m



Borehole: VC-02A Box 01: 0.00-1.40m



Borehole: VC-03 Box 01: 0.00-2.00m



Borehole: VC-03 Box 02: 2.00-3.00m



Borehole: VC-05 Box 01: 0.00-2.00m



Borehole: VC-05 Box 02: 2.00-3.00m



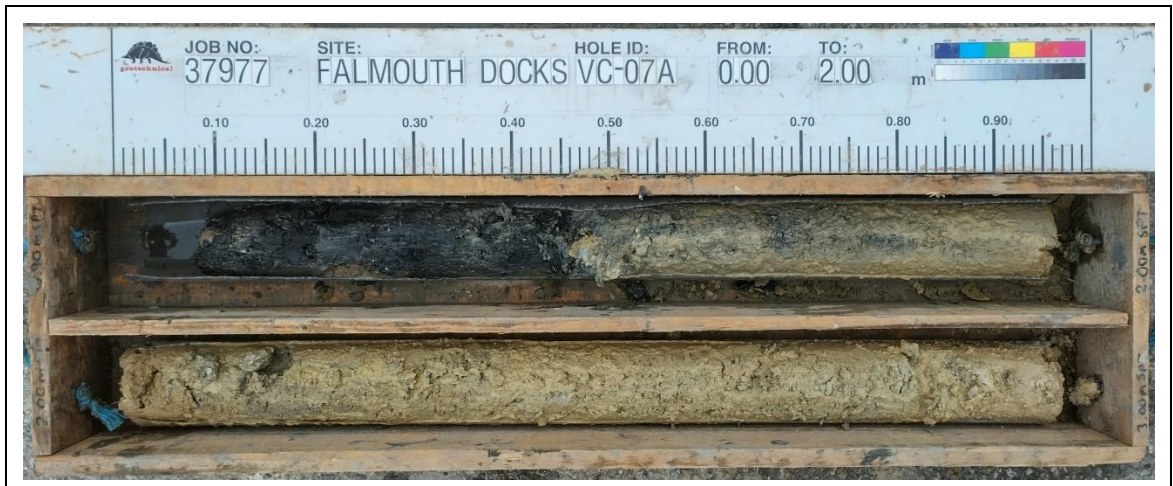
Borehole: VC-06 Box 01: 0.00-2.00m



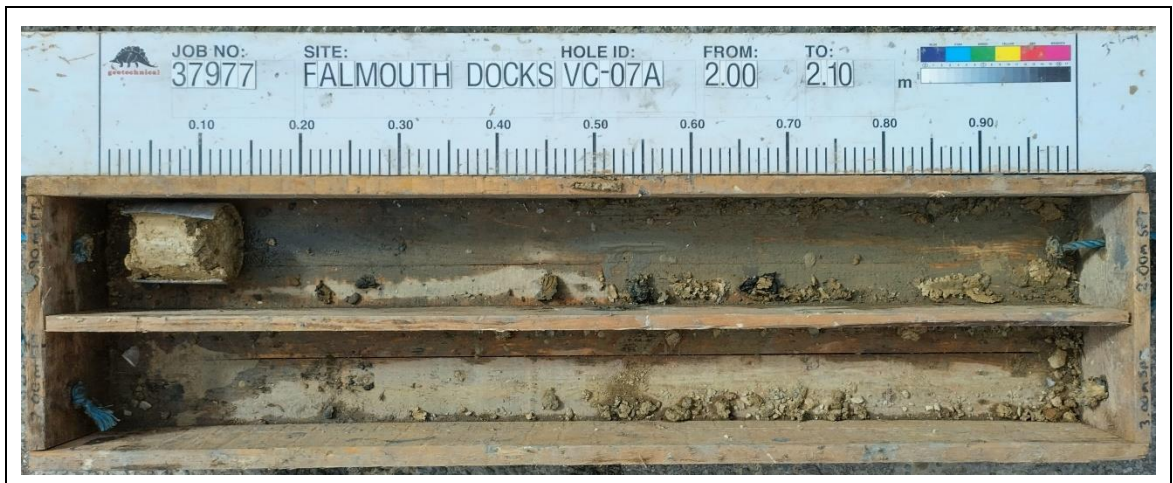
Borehole: VC-06 Box 02: 2.00-2.55m



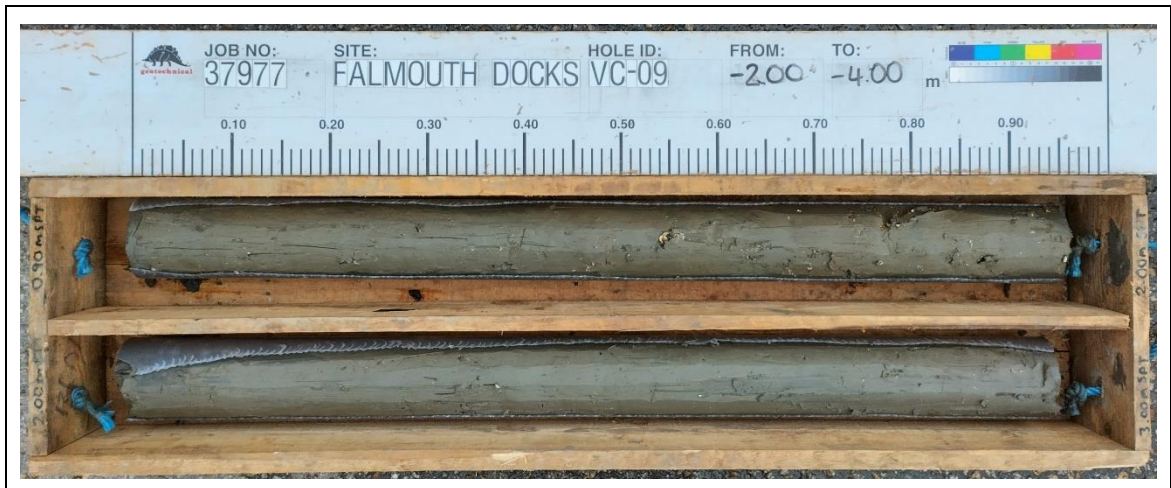
Borehole: VC-07 Box 01: 0.00-1.30m



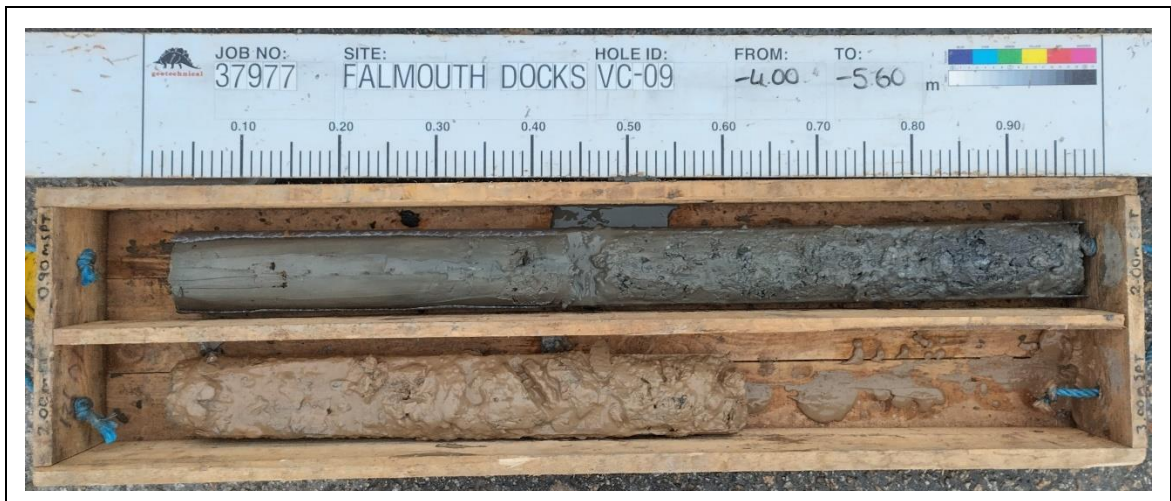
Borehole: VC-07A Box 01: 0.00-2.00m



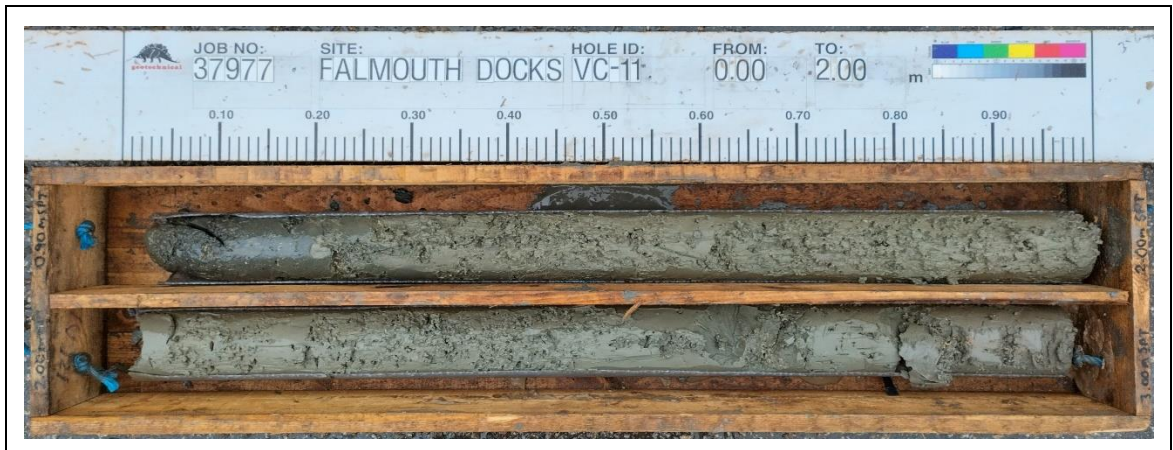
Borehole: VC-07A Box 02: 2.00-2.10m



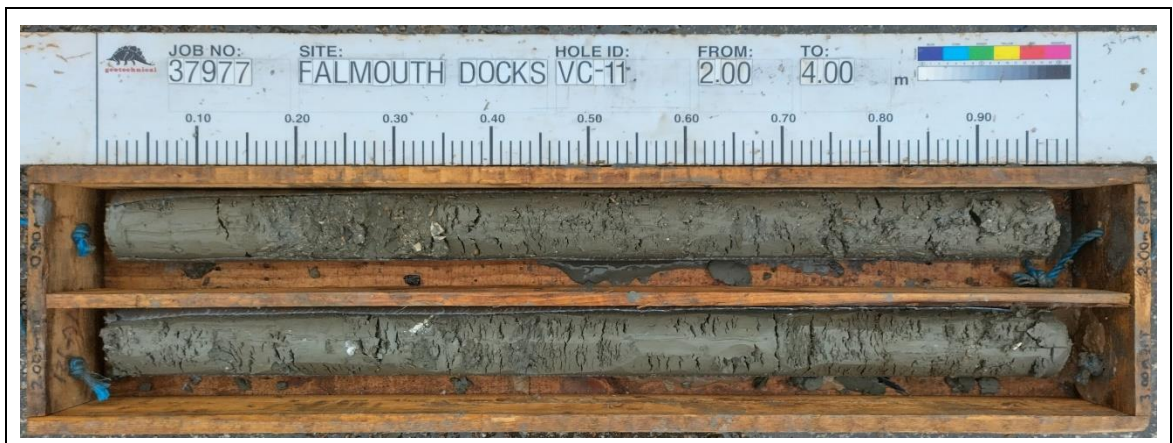
Borehole: VC-09 Box 01: 2.00-4.00m



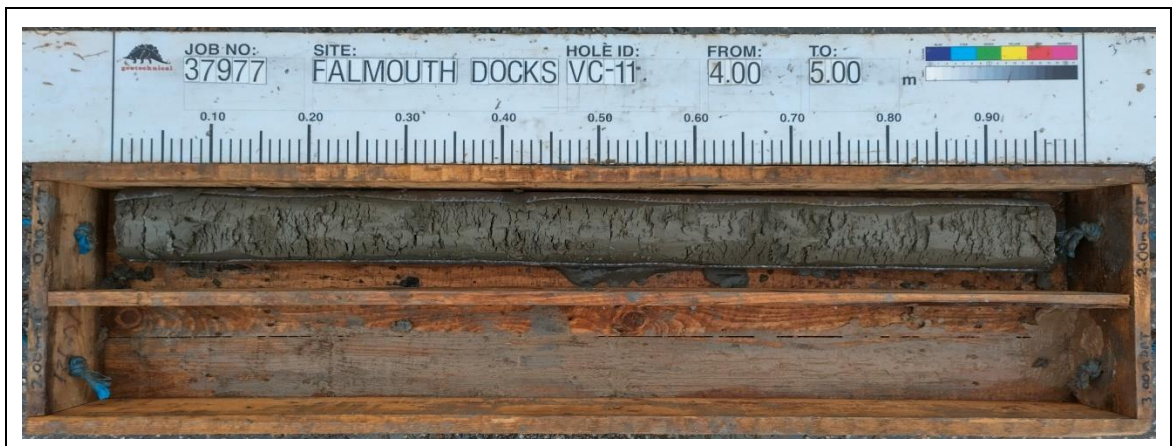
Borehole: VC-09 Box 02: 4.00-5.60m



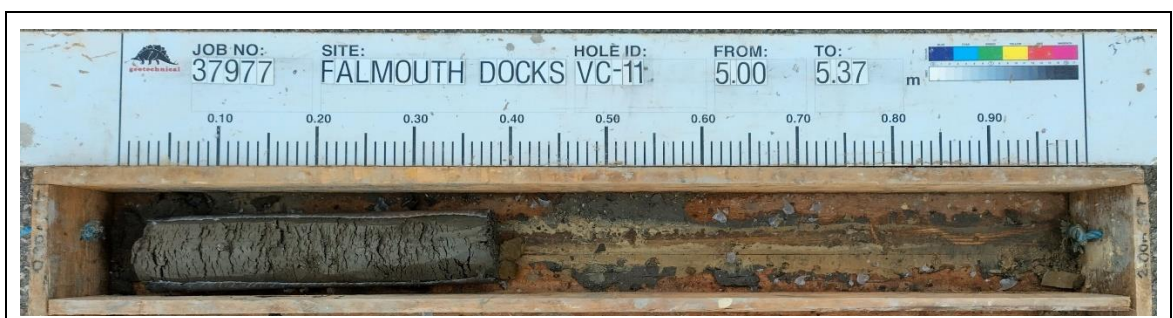
Borehole: VC-11 Box 01: 0.00-2.00m



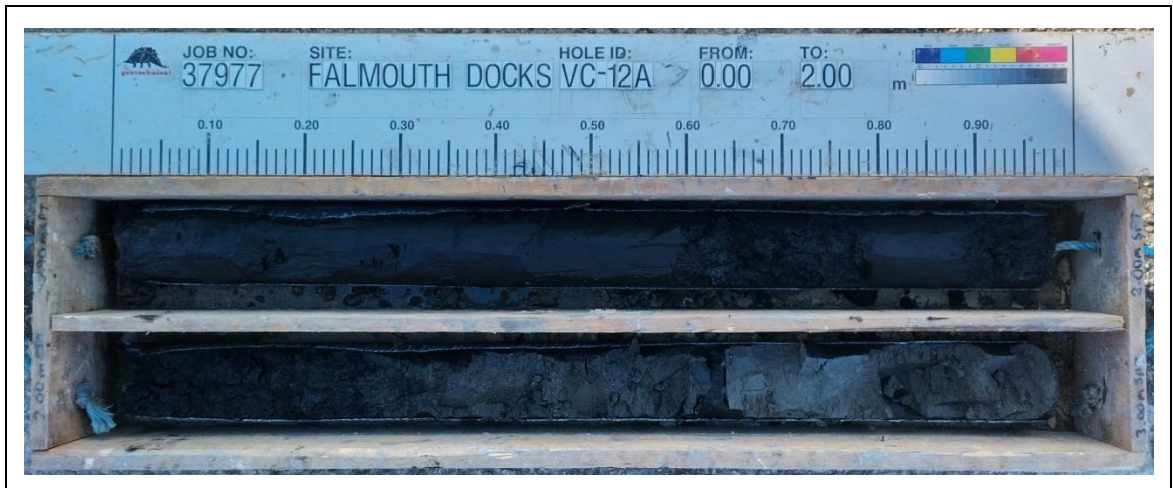
Borehole: VC-11 Box 02: 2.00-4.00m



Borehole: VC-11 Box 03: 4.00-5.00m



Borehole: VC-11 Box 04: 5.00-5.37m



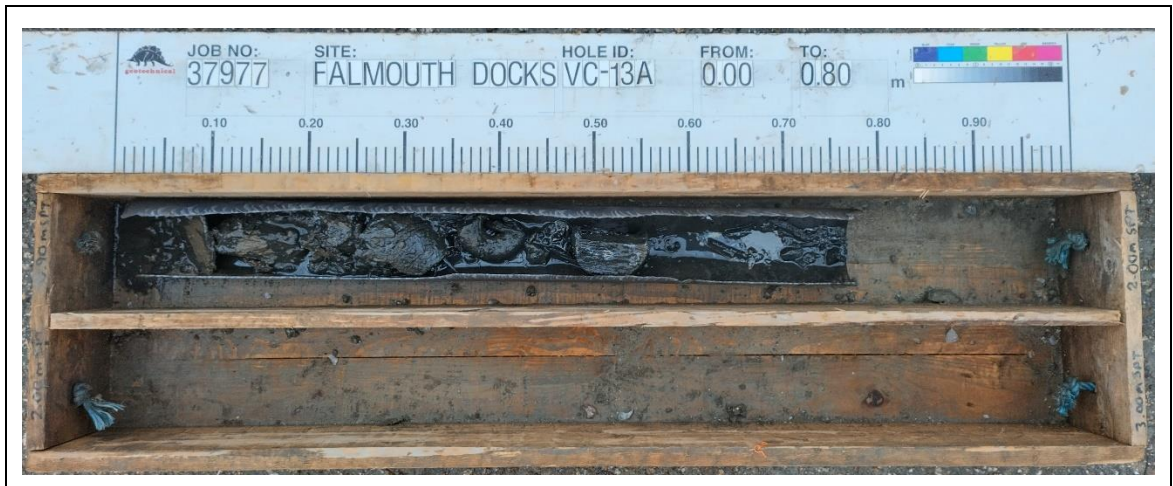
Borehole: VC-12A Box 01: 0.00-2.00m



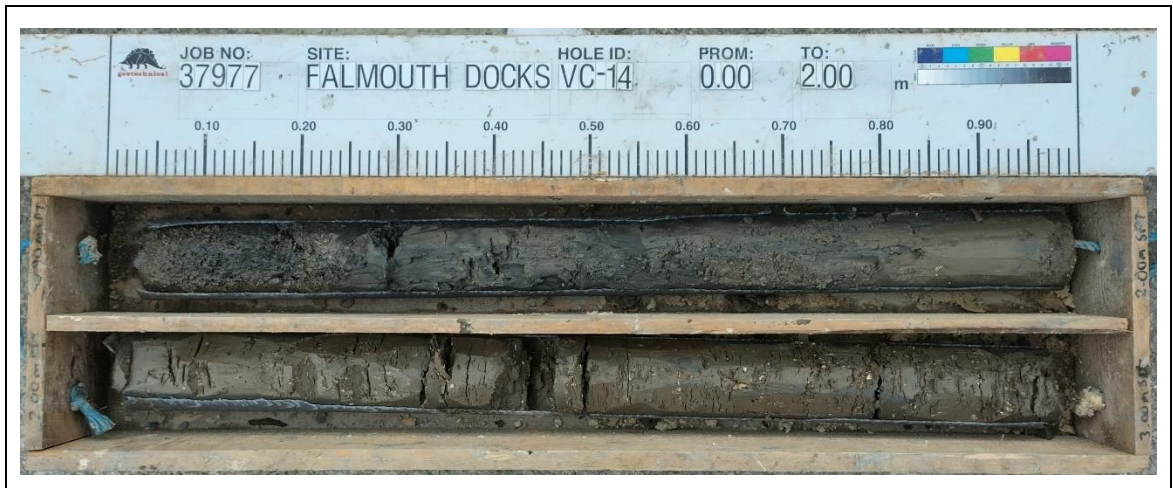
Borehole: VC-12A Box 02: 2.00-4.00m



Borehole: VC-12A Box 03: 4.00-5.20m



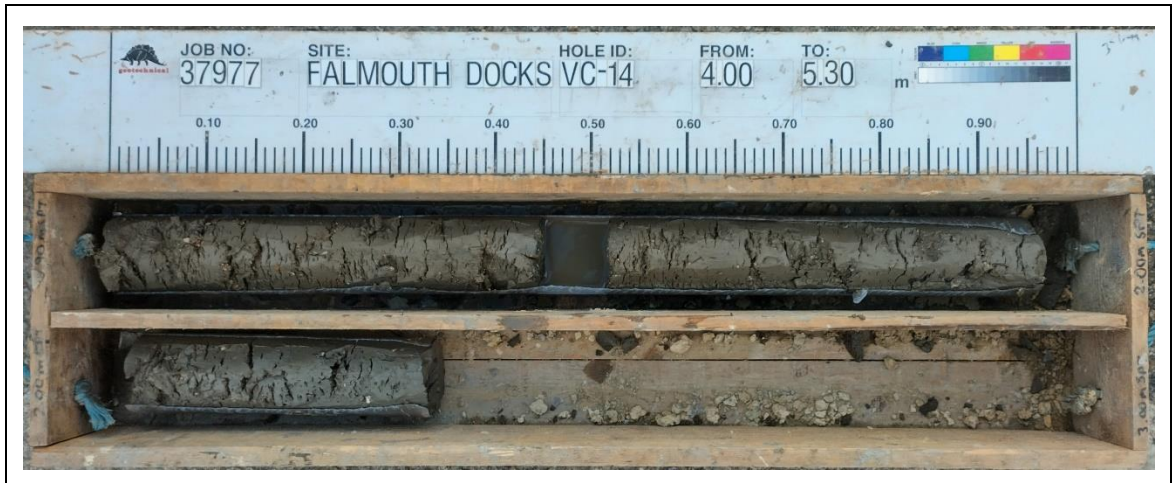
Borehole: VC-13A Box 01: 0.00-0.80m



Borehole: VC-14 Box 01: 0.00-2.00m



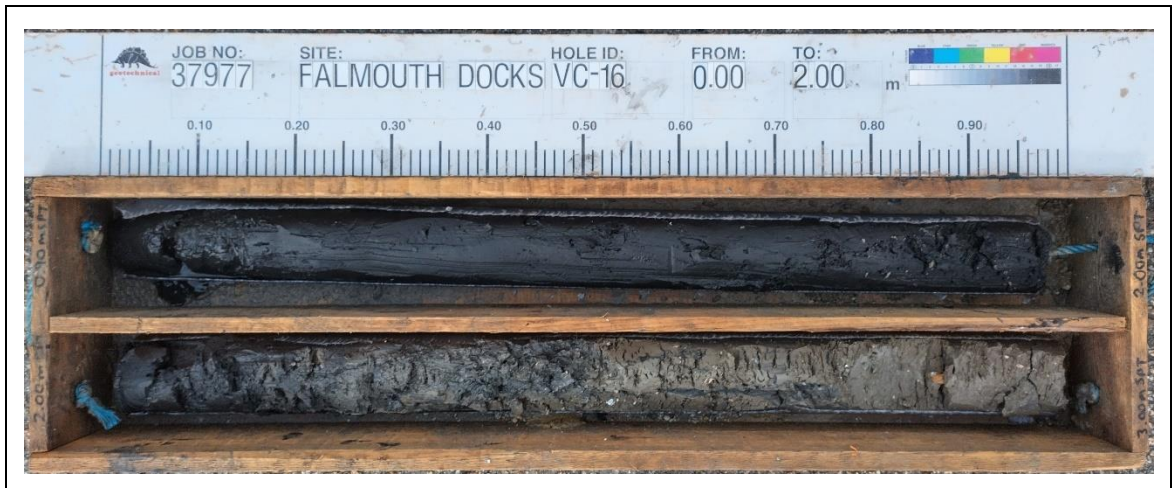
Borehole: VC-14 Box 02: 2.00-4.00m



Borehole: VC-14 Box 03: 4.00-5.30m



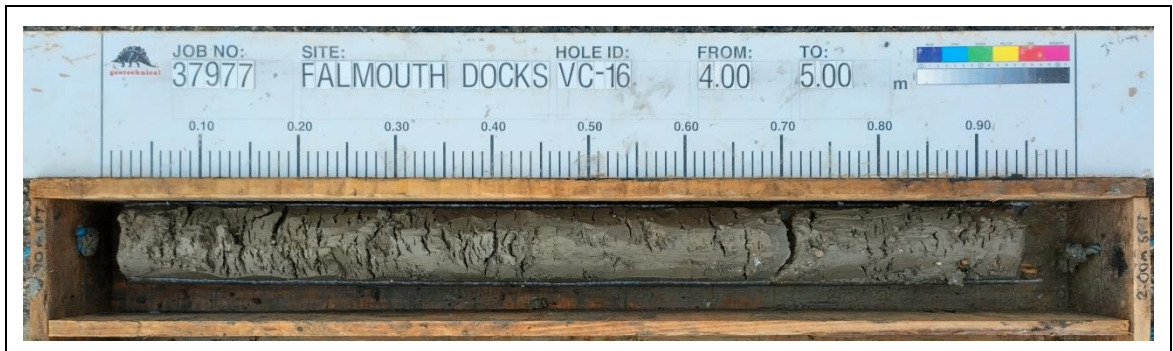
Borehole: VC-15 Box 01: 0.00-1.00m



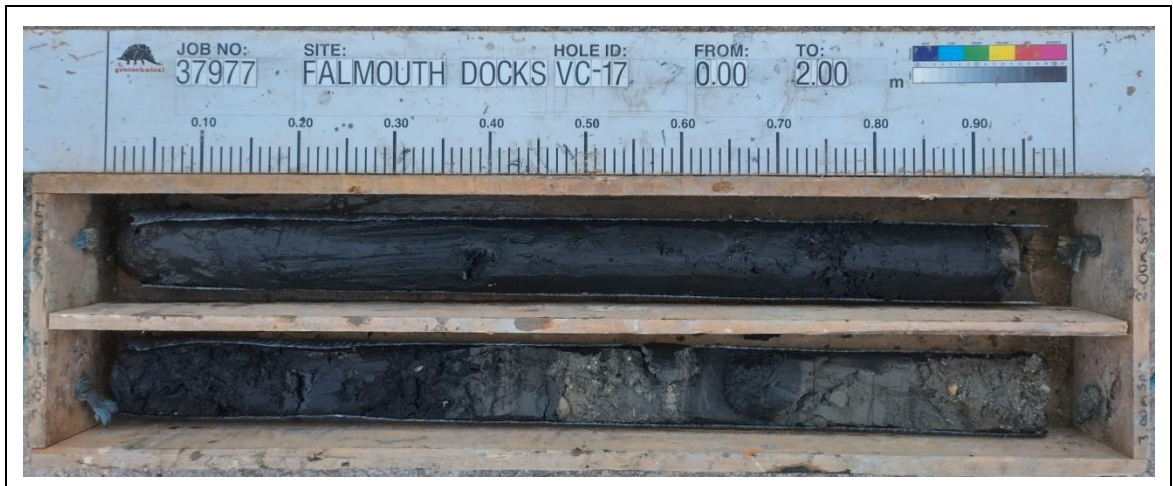
Borehole: VC-16 Box 01: 0.00-2.00m



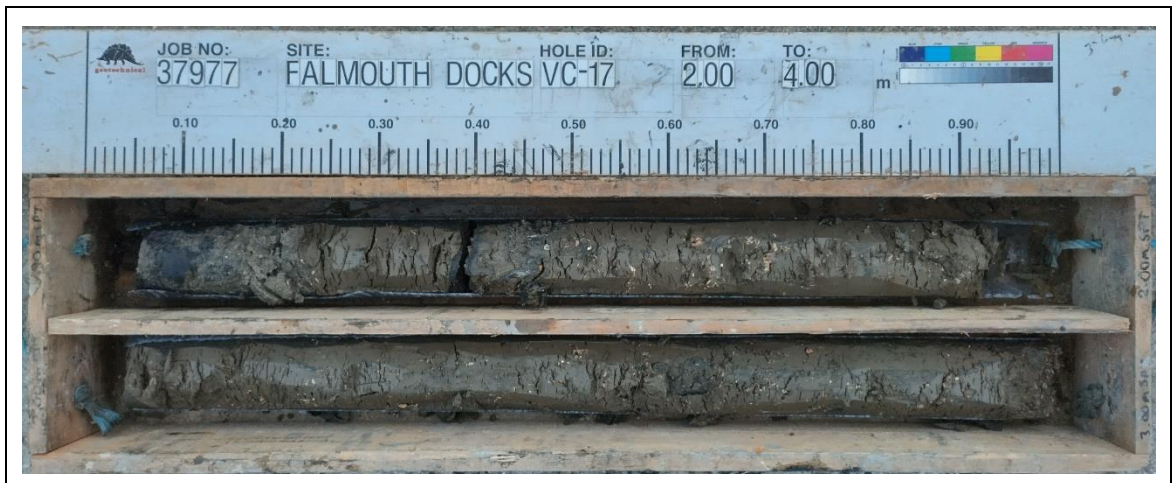
Borehole: VC-16 Box 02: 2.00-4.00m



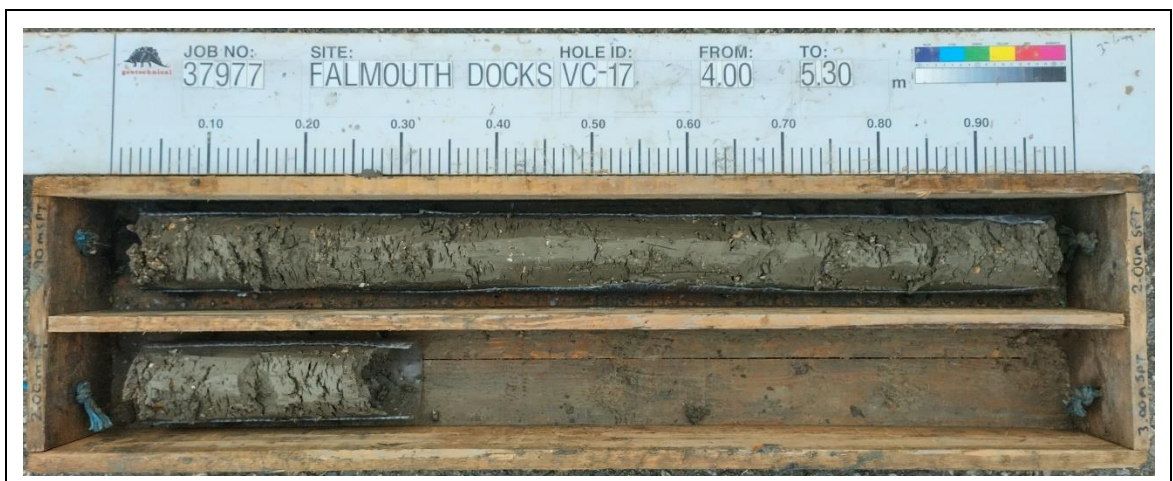
Borehole: VC-16 Box 03: 4.00-5.00m



Borehole: VC-17 Box 01: 0.00-2.00m



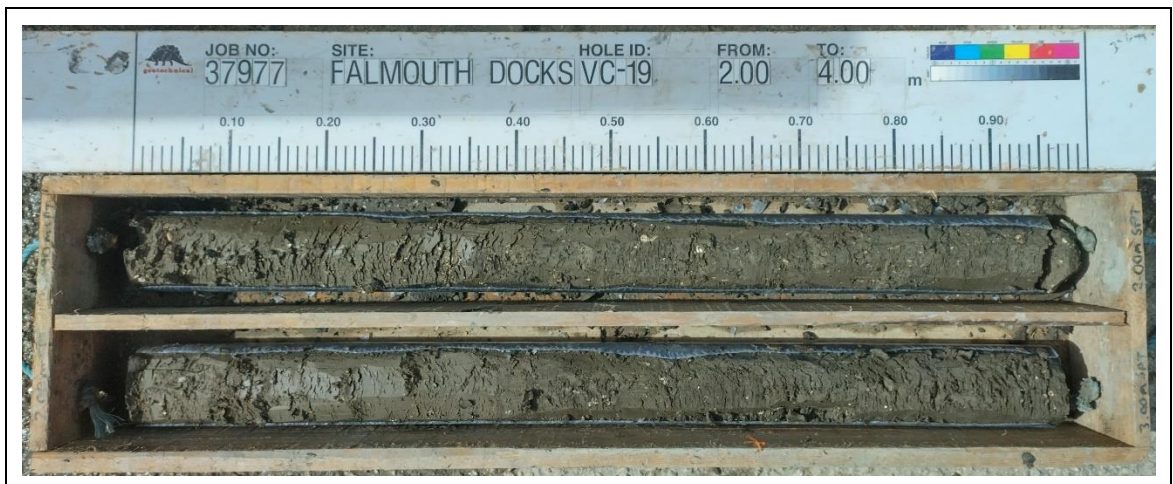
Borehole: VC-17 Box 02: 2.00-4.00m



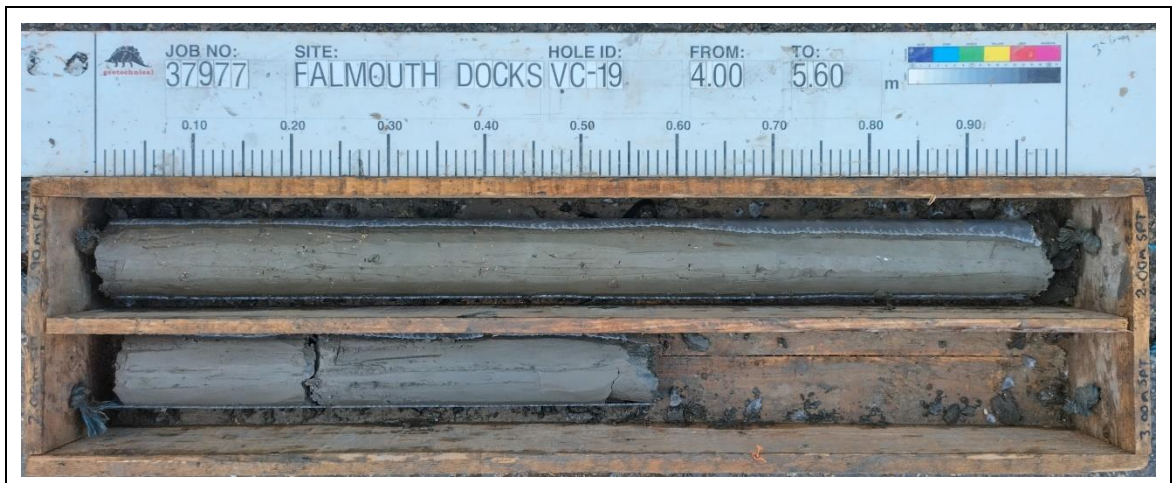
Borehole: VC-17 Box 03: 4.00-5.30m



Borehole: VC-19 Box 01: 0.00-2.00m



Borehole: VC-19 Box 02: 2.00-4.00m



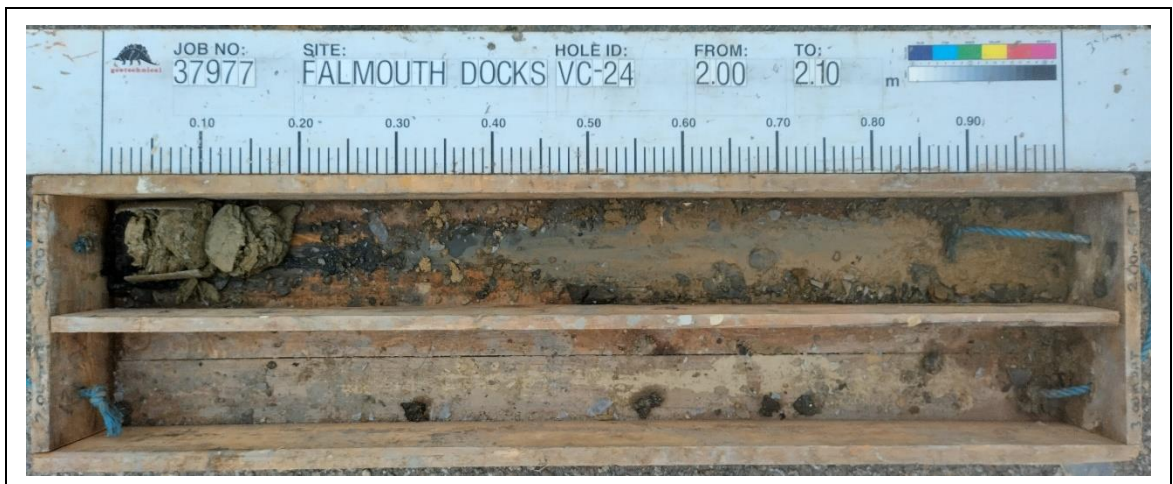
Borehole: VC-19 Box 03: 4.00-5.60m



Borehole: VC-22 Box 01: 0.00-1.05m



Borehole: VC-24 Box 01: 0.00-2.00m



Borehole: VC-24 Box 02: 2.00-2.10m



Borehole: VC-25 Box 01: 0.00-2.00m



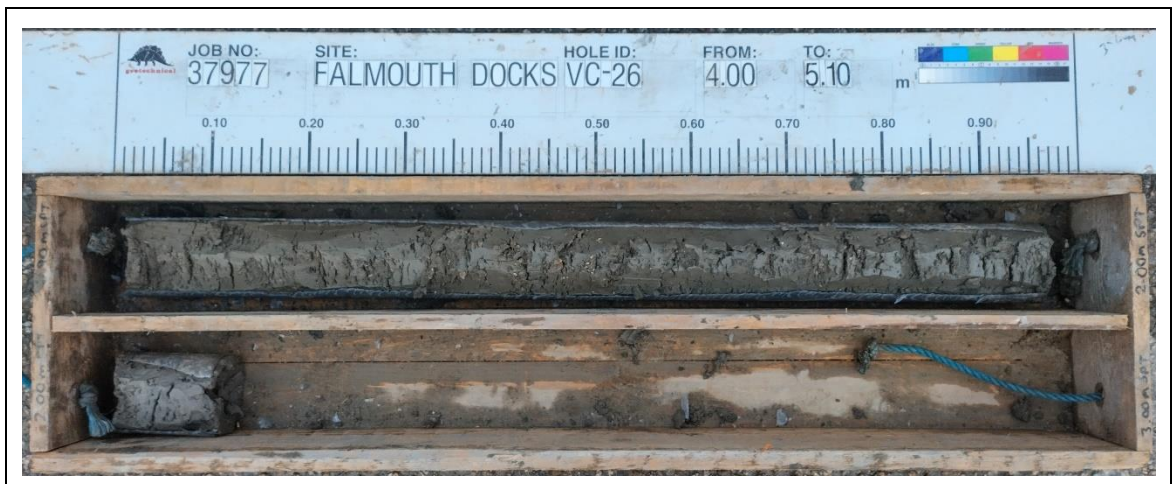
Borehole: VC-25 Box 02: 2.00-3.90m



Borehole: VC-26 Box 01: 0.00-2.00m



Borehole: VC-26 Box 02: 2.00-4.00m



Borehole: VC-26 Box 03: 4.00-5.10m



APPENDIX C

CHEMICAL ANALYSES

Certificate of Analysis

Client: Geotechnical Engineering Limited

Project: 24032944

Quote: BEC240334421 V1.2

Project Ref: 37977

Site: Falmouth Docks Development

Contact: Mark Jones

Address: Centurion House,
Olympus Park, Quedgeley
Gloucester
GL2 4NF

E-Mail: mark.jones@geoeng.co.uk

Phone: 07748 775522

No. Samples Received: 3

Date Received: 22/03/2024

Analysis Completed: 05/04/2024

Date Issued: 05/04/2024

Report Type: Version 01

This report supersedes any versions previously issued by the laboratory



Reported by Account Manager
Elise Ford
01283 554434
Elise.Ford@socotec.co.uk



Project Number: 24032944

Client: Geotechnical Engineering Limited
Date Issued: 05/04/2024
Project Name: 37977 - Falmouth Docks Development

Samples Analysed

<u>Text ID</u>	<u>Sample Reference</u>	<u>Sampling Date</u>	<u>Sample Type</u>	<u>Sample Description</u>
24032944-001	VC01	19/03/2024 11:30:00	WATER	Surface Water
24032944-002	VC05	19/03/2024 14:25:00	WATER	Surface Water
24032944-003	VC06	19/03/2024 12:10:00	WATER	Surface Water

Analysis Results

SOCOTEC Sample ID:				24032944-001	24032944-002	24032944-003
Sampling Date:				19/03/2024 11:30	19/03/2024 14:25	19/03/2024 12:10
Customer ID:				VC01	VC05	VC06
Method Code	Analysis	MDL	Accred.			
PHCONDW	pH	1 pH units	U	8.0	8.0	8.0
WSLM20	BOD (5 day)	1 mg O2/l	U	1.3	1.1	1.5
WSLM12	Total Alkalinity	2 mg/l	U	117	107	113
WSLM10	Total Suspended Solids	5 mg/l	U	22	15	16
WSLM27	TDS as mg/L	5 mg/l	N	36800	43500	46600
TOCW	Total Organic Carbon	0.4 mg/l	U	1.31	1.29	1.17
TOCW	Dissolved Organic Carbon	0.4 mg/l	U	1.01	0.97	0.89
KONENS	Ammoniacal Nitrogen as N	0.01 mg/l	U	0.70	0.60	0.70
KONENS	Chloride as Cl	1 mg/l	U	12900	11500	13300
SFAPI	Total Cyanide	0.02 mg/l	U	<0.02	<0.02	<0.02
ICPMSSEA (Dissolved)	Arsenic as As	0.001 mg/l	N	0.005	0.005	0.003
ICPWATVAR (Dissolved)	Beryllium as Be	0.01 mg/l	N	<0.01	<0.01	<0.01
ICPWATVAR (Dissolved)	Boron as B	0.01 mg/l	N	4.02	3.72	3.98
ICPMSSEA (Dissolved)	Cadmium as Cd	0.0001 mg/l	N	<0.0001	<0.0001	<0.0001
ICPSMW (Dissolved)	Total Chromium as Cr	0.001 mg/l	U	0.001	<0.001	0.002
CALC_CR3	Chromium (III)	0.003 mg/l	U	<0.003	<0.003	<0.003
KONENS	Chromium (VI) as Cr	0.003 mg/l	U	<0.003	<0.003	<0.003
ICPMSSEA (Dissolved)	Copper as Cu	0.001 mg/l	N	0.008	0.005	0.003
ICPMSSEA (Dissolved)	Lead as Pb	0.001 mg/l	N	0.104	0.019	0.013
ICPMSSEA (Dissolved)	Mercury as Hg	0.0001 mg/l	N	0.0006	<0.0001	<0.0001
ICPMSSEA (Dissolved)	Nickel as Ni	0.001 mg/l	N	0.014	0.005	0.003
ICPMSSEA (Dissolved)	Selenium as Se	0.001 mg/l	N	0.031	0.034	0.029
ICPWATVAR (Dissolved)	Total Sulphur as SO4	3 mg/l	N	2450	2270	2450
ICPMSSEA (Dissolved)	Vanadium as V	0.001 mg/l	N	0.003	0.002	0.002
ICPMSSEA (Dissolved)	Zinc as Zn	0.002 mg/l	N	0.064	0.045	0.075
ICPWATVAR (Dissolved)	Total Hardness as CaCO3	6.6 mg/l	N	5550	5100	5510
BTEXHSA	Benzene (HS_1D_AR)	5 µg/l	U	<5	<5	<5
	Toluene (HS_1D_AR)	5 µg/l	U	<5	<5	<5
	Ethylbenzene (HS_1D_AR)	5 µg/l	U	<5	<5	<5
	m/p-Xylene (HS_1D_AR)	10 µg/l	U	<10	<10	<10
	o-Xylene (HS_1D_AR)	5 µg/l	U	<5	<5	<5
GROHSA/BTEXHSA	Total GRO C5-C10 (HS_1D_Total)	0.1 mg/l	U	<0.100	<0.100	<0.100
	C5-C6 Aliphatic (HS_1D_AL)	0.1 mg/l	N	<0.100	<0.100	<0.100
	>C6-C7 Aliphatic (HS_1D_AL)	0.1 mg/l	N	<0.100	<0.100	<0.100
	>C7-C8 Aliphatic (HS_1D_AL)	0.1 mg/l	N	<0.100	<0.100	<0.100
	>C8-C10 Aliphatic (HS_1D_AL)	0.1 mg/l	N	<0.100	<0.100	<0.100
	C5-C7 Aromatic (HS_1D_AR)	0.005 mg/l	U	<0.005	<0.005	<0.005
	>C7-C8 Aromatic (HS_1D_AR)	0.005 mg/l	U	<0.005	<0.005	<0.005
	>C8-C10 Aromatic (HS_1D_AR)	0.02 mg/l	U	<0.020	<0.020	<0.020
	Total TPH >C8-C40 (Aliphatic) (EH_CU_1D_AL)	0.01 mg/l	U	0.04	<0.04	<0.04
TPHFID (Aliphatic)	>C10-C12 (Aliphatic) (EH_CU_1D_AL)	0.01 mg/l	U	<0.04*	<0.04*	<0.04*
	>C12-C16 (Aliphatic) (EH_CU_1D_AL)	0.01 mg/l	U	<0.04	<0.04	<0.04
	>C16-C21 (Aliphatic) (EH_CU_1D_AL)	0.01 mg/l	U	<0.04	<0.04	<0.04
	>C21-C35 (Aliphatic) (EH_CU_1D_AL)	0.01 mg/l	U	<0.04	<0.04	<0.04
TPHFID (Aromatic)	Total TPH >C8-C40 (Aromatic) (EH_CU_1D_AR)	0.01 mg/l	U	0.05	<0.04	<0.04
	>C10-C12 (Aromatic) (EH_CU_1D_AR)	0.01 mg/l	U	<0.04	<0.04	<0.04
	>C12-C16 (Aromatic) (EH_CU_1D_AR)	0.01 mg/l	U	<0.04	<0.04	<0.04
	>C16-C21 (Aromatic) (EH_CU_1D_AR)	0.01 mg/l	U	<0.04	<0.04	<0.04
	>C21-C35 (Aromatic) (EH_CU_1D_AR)	0.01 mg/l	U	0.05	<0.04	<0.04
PAHMSW	Acenaphthene	0.01 µg/l	U	<0.04	<0.04	<0.04
	Acenaphthylene	0.01 µg/l	U	<0.04	<0.04	<0.04
	Anthracene	0.01 µg/l	U	<0.04	<0.04	<0.04
	Benzo[a]anthracene	0.01 µg/l	U	<0.04	<0.04	<0.04
	Benzo[a]pyrene	0.01 µg/l	U	<0.04	<0.04	<0.04
	Benzo[b]fluoranthene	0.01 µg/l	U	<0.04	<0.04	<0.04
	Benzo[g,h,i]perylene	0.01 µg/l	U	<0.04	<0.04	<0.04
	Benzo[k]fluoranthene	0.01 µg/l	U	<0.04	<0.04	<0.04
	Chrysene	0.01 µg/l	U	<0.04	<0.04	<0.04
	Dibenzo[a,h]anthracene	0.01 µg/l	U	<0.04	<0.04	<0.04
	Fluoranthene	0.01 µg/l	U	<0.04	<0.04	<0.04
	Fluorene	0.01 µg/l	U	<0.04	<0.04	<0.04
	Indeno[1,2,3-cd]pyrene	0.01 µg/l	U	<0.04	<0.04	<0.04
	Naphthalene	0.01 µg/l	U	<0.04	<0.04	<0.04
	Phenanthrene	0.01 µg/l	U	<0.04	<0.04	<0.04
	Pyrene	0.01 µg/l	U	<0.04	<0.04	<0.04
	Total PAH 16	0.16 µg/l	U	<0.64	<0.64	<0.64
PHEHPLCUV	Phenol	0.05 mg/l	U	<0.05	<0.05	<0.05
	Methylphenols	0.05 mg/l	U	<0.05	<0.05	<0.05
	Dimethylphenols	0.05 mg/l	U	<0.05	<0.05	<0.05
	Trimethylphenols	0.05 mg/l	U	<0.05	<0.05	<0.05
	Total Phenols	0.2 mg/l	U	<0.20	<0.20	<0.20
SVOCSW	1,2,4-Trichlorobenzene	0.005 mg/l	N	<0.005	<0.005	<0.005
	1,2-Dichlorobenzene	0.005 mg/l	N	<0.005	<0.005	<0.005
	1,3-Dichlorobenzene	0.005 mg/l	N	<0.005	<0.005	<0.005
	1,4-Dichlorobenzene	0.005 mg/l	N	<0.005	<0.005	<0.005
	1-Methylnaphthalene	0.002 mg/l	N	<0.002	<0.002	<0.002
	2,4,5-Trichlorophenol	0.02 mg/l	N	<0.020	<0.020	<0.020
	2,4,6-Trichlorophenol	0.02 mg/l	N	<0.020	<0.020	<0.020
	2,4-Dichlorophenol	0.02 mg/l	N	<0.020	<0.020	<0.020
	2,4-Dimethylphenol	0.02 mg/l	N	<0.020	<0.020	<0.020
	2,4-Dinitrophenol	0.01 mg/l	N	<0.010	<0.010	<0.010
	2,4-Dinitrotoluene	0.005 mg/l	N	<0.005	<0.005	<0.005

Analysis Results

SOCOTEC Sample ID:	24032944-001	24032944-002	24032944-003
Sampling Date:	19/03/2024 11:30	19/03/2024 14:25	19/03/2024 12:10

Method Code	Analysis	MDL	Accred.	VC01	VC05	VC06
SVOCSW	2,6-Dinitrotoluene	0.005 mg/l	N	<0.005	<0.005	<0.005
	2-Chloronaphthalene	0.002 mg/l	N	<0.002	<0.002	<0.002
	2-Chlorophenol	0.02 mg/l	N	<0.020	<0.020	<0.020
	2-Methylnaphthalene	0.002 mg/l	N	<0.002	<0.002	<0.002
	2-Methylphenol	0.005 mg/l	N	<0.005	<0.005	<0.005
	2-Nitroaniline	0.005 mg/l	N	<0.005	<0.005	<0.005
	2-Nitrophenol	0.02 mg/l	N	<0.020	<0.020	<0.020
	3- & 4-Methylphenol	0.02 mg/l	N	<0.020	<0.020	<0.020
	3-Nitroaniline	0.005 mg/l	N	<0.005	<0.005	<0.005
	4,6-Dinitro-2-methylphenol	0.05 mg/l	N	<0.050	<0.050	<0.050
	4-Bromophenyl-phenylether	0.005 mg/l	N	<0.005	<0.005	<0.005
	4-Chloro-3-methylphenol	0.005 mg/l	N	<0.005	<0.005	<0.005
	4-Chloroaniline	0.005 mg/l	N	<0.005	<0.005	<0.005
	4-Chlorophenol	0.02 mg/l	N	<0.020	<0.020	<0.020
	4-Chlorophenyl-phenylether	0.005 mg/l	N	<0.005	<0.005	<0.005
	4-Nitroaniline	0.005 mg/l	N	<0.005	<0.005	<0.005
	4-Nitrophenol	0.05 mg/l	N	<0.050	<0.050	<0.050
	Acenaphthene	0.002 mg/l	N	<0.002	<0.002	<0.002
	Acenaphthylene	0.002 mg/l	N	<0.002	<0.002	<0.002
	Anthracene	0.002 mg/l	N	<0.002	<0.002	<0.002
	Azobenzene	0.01 mg/l	N	<0.010	<0.010	<0.010
	Benzo[a]anthracene	0.002 mg/l	N	<0.002	<0.002	<0.002
	Benzo[a]pyrene	0.002 mg/l	N	<0.002	<0.002	<0.002
	Benzo[b]fluoranthene	0.002 mg/l	N	<0.002	<0.002	<0.002
	Benzo[g,h,i]perylene	0.002 mg/l	N	<0.002	<0.002	<0.002
	Benzo[k]fluoranthene	0.002 mg/l	N	<0.002	<0.002	<0.002
	Benzoic Acid	0.1 mg/l	N	<0.100	<0.100	<0.100
	Benzyl alcohol	0.005 mg/l	N	<0.005	<0.005	<0.005
	Biphenyl	0.002 mg/l	N	<0.002	<0.002	<0.002
	bis(2-Chloroethoxy)methane	0.005 mg/l	N	<0.005	<0.005	<0.005
	bis(2-Chloroethyl)ether	0.005 mg/l	N	<0.005	<0.005	<0.005
	bis(2-Chloroisopropyl)ether	0.005 mg/l	N	<0.005	<0.005	<0.005
	bis(2-Ethylhexyl)phthalate	0.005 mg/l	N	<0.005	<0.005	<0.005
	Butylbenzylphthalate	0.005 mg/l	N	<0.005	<0.005	<0.005
	Carbazole	0.01 mg/l	N	<0.010	<0.010	<0.010
	Chrysene	0.002 mg/l	N	<0.002	<0.002	<0.002
	Coronene	0.05 mg/l	N	<0.050	<0.050	<0.050
	Dibenzo[a,h]anthracene	0.002 mg/l	N	<0.002	<0.002	<0.002
	Dibenzofuran	0.005 mg/l	N	<0.005	<0.005	<0.005
	Diethylphthalate	0.005 mg/l	N	<0.005	<0.005	<0.005
	Dimethylphthalate	0.005 mg/l	N	<0.005	<0.005	<0.005
	Di-n-butylphthalate	0.005 mg/l	N	<0.005	<0.005	<0.005
	Di-n-octylphthalate	0.002 mg/l	N	<0.002	<0.002	<0.002
	Diphenyl ether	0.002 mg/l	N	<0.002	<0.002	<0.002
	Fluoranthene	0.002 mg/l	N	<0.002	<0.002	<0.002
	Fluorene	0.002 mg/l	N	<0.002	<0.002	<0.002
	Hexachlorobenzene	0.005 mg/l	N	<0.005	<0.005	<0.005
	Hexachlorobutadiene	0.005 mg/l	N	<0.005	<0.005	<0.005
	Hexachlorocyclopentadiene	0.005 mg/l	N	<0.005	<0.005	<0.005
	Hexachloroethane	0.005 mg/l	N	<0.005	<0.005	<0.005
	Indeno[1,2,3-cd]pyrene	0.002 mg/l	N	<0.002	<0.002	<0.002
	Isophorone	0.005 mg/l	N	<0.005	<0.005	<0.005
	Naphthalene	0.002 mg/l	N	<0.002	<0.002	<0.002
	Nitrobenzene	0.005 mg/l	N	<0.005	<0.005	<0.005
	N-Nitroso-di-n-propylamine	0.005 mg/l	N	<0.005	<0.005	<0.005
	N-Nitrosodiphenylamine	0.005 mg/l	N	<0.005	<0.005	<0.005
	Pentachlorophenol	0.05 mg/l	N	<0.050	<0.050	<0.050
	Phenanthrene	0.002 mg/l	N	<0.002	<0.002	<0.002
	Phenol	0.02 mg/l	N	<0.020	<0.020	<0.020
	Pyrene	0.002 mg/l	N	<0.002	<0.002	<0.002
VOCHSAW	1,1,1,2-Tetrachloroethane	1 µg/l	U	<1	<1	<1
	1,1,1-Trichloroethane	1 µg/l	U	<1	<1	<1
	1,1,2,2-Tetrachloroethane	1 µg/l	N	<1	<1	<1
	1,1,2-Trichloroethane	1 µg/l	U	<1	<1	<1
	1,1-Dichloroethane	1 µg/l	U	<1	<1	<1
	1,1-Dichloroethene	1 µg/l	U	<1	<1	<1
	1,1-Dichloropropene	1 µg/l	U	<1	<1	<1
	1,2,3-Trichlorobenzene	5 µg/l	U	<5	<5	<5
	1,2,3-Trichloropropane	1 µg/l	U	<1	<1	<1
	1,2,4-Trichlorobenzene	5 µg/l	U	<5	<5	<5
	1,2,4-Trimethylbenzene	1 µg/l	U	<1	<1	<1
	1,2-Dibromo-3-chloropropane	5 µg/l	U	<5	<5	<5
	1,2-Dibromoethane	1 µg/l	U	<1	<1	<1
	1,2-Dichlorobenzene	5 µg/l	U	<5	<5	<5
	1,2-Dichloroethane	1 µg/l	U	<1	<1	<1
	1,2-Dichloropropane	1 µg/l	U	<1	<1	<1
	1,3,5-Trimethylbenzene	0.6 µg/l	U	<0.6	<0.6	<0.6
	1,3-Dichlorobenzene	1 µg/l	U	<1	<1	<1
	1,3-Dichloropropane	1 µg/l	N	<1	<1	<1
	1,4-Dichlorobenzene	1 µg/l	U	<1	<1	<1
	2,2-Dichloropropane	1 µg/l	N	<1	<1	<1
	2-Chlorotoluene	1 µg/l	U	<1	<1	<1

Analysis Results

SOCOTEC Sample ID:				24032944-001	24032944-002	24032944-003
Sampling Date:				19/03/2024 11:30	19/03/2024 14:25	19/03/2024 12:10
Customer ID:				VC01	VC05	VC06
Method Code	Analysis	MDL	Accred.			
VOCHSAW	4-Chlorotoluene	1 µg/l	U	<1	<1	<1
	Benzene	1 µg/l	U	<1	<1	<1
	Bromobenzene	1 µg/l	U	<1	<1	<1
	Bromochloromethane	1 µg/l	U	<1	<1	<1
	Bromodichloromethane	1 µg/l	U	<1	<1	<1
	Bromoform	1 µg/l	U	<1	<1	<1
	Bromomethane	5 µg/l	N	<5	<5	<5
	Carbon Tetrachloride	1 µg/l	U	<1	<1	<1
	Chlorobenzene	1 µg/l	U	<1	<1	<1
	Chloroethane	5 µg/l	U	<5	<5	<5
	Chloroform	5 µg/l	U	<5	<5	<5
	Chloromethane	1 µg/l	U	<1	<1	<1
	cis 1,2-Dichloroethene	1 µg/l	U	<1	<1	<1
	cis 1,3-Dichloropropene	1 µg/l	N	<1	<1	<1
	Dibromochloromethane	1 µg/l	U	<1	<1	<1
	Dibromomethane	1 µg/l	U	<1	<1	<1
	Dichlorodifluoromethane	1 µg/l	N	<1	<1	<1
	Ethylbenzene	0.5 µg/l	U	<0.5	<0.5	<0.5
	Hexachlorobutadiene	5 µg/l	U	<5	<5	<5
	iso-Propylbenzene	1 µg/l	U	<1	<1	<1
	m and p-Xylene	1 µg/l	U	<1* _a	<1* _a	<1* _a
	MTBE	1 µg/l	N	<1	<1	<1
	Naphthalene	5 µg/l	U	<5	<5	<5
	n-Butylbenzene	1 µg/l	U	<1	<1	<1
	o-Xylene	1 µg/l	U	<1	<1	<1
	p-Isopropyltoluene	1 µg/l	U	<1	<1	<1
	Propylbenzene	1 µg/l	U	<1	<1	<1
	sec-Butylbenzene	1 µg/l	U	<1	<1	<1
	Styrene	1 µg/l	U	<1	<1	<1
	tert-Butylbenzene	1 µg/l	U	<1	<1	<1
	Tetrachloroethene	5 µg/l	U	<5	<5	<5
	Toluene	1 µg/l	U	<1	<1	<1
	trans 1,2-Dichloroethene	1 µg/l	U	<1	<1	<1
	trans 1,3-Dichloropropene	1 µg/l	U	<1	<1	<1
	Trichloroethene	5 µg/l	U	<5	<5	<5
	Trichlorofluoromethane	1 µg/l	U	<1	<1	<1
	Vinyl Chloride	1 µg/l	U	<1	<1	<1
OGSNMS	Dibutyltin as Sn	20 ng Sn/l	N	<20	<20	<20
	Tributyltin as Sn	20 ng Sn/l	N	<20	<20	<20
	Triphenyltin as Sn	50 ng Sn/l	N	<50	<50	<50



Project Number: 24032944

Client: Geotechnical Engineering Limited

Date Issued: 05/04/2024

Project Name: 37977 - Falmouth Docks Development

Deviating Sample Report

<u>Sample Reference</u>	<u>Text ID</u>	<u>Method Code</u>	Incorrect Container	Incorrect Label	Headspace	Incorrect/No Preservative	No Sampling Date	Holding Time
VC01	24032944-001	PHCONDW						✓
VC01	24032944-001	WSLM20						✓
VC05	24032944-002	PHCONDW						✓
VC05	24032944-002	WSLM20						✓
VC06	24032944-003	PHCONDW						✓
VC06	24032944-003	WSLM20						✓

Analysis Method

Method Code

BTEXHSA
 CALC_CR3
 GROHSA/BTEXHSA
 ICPMSSEA (Dissolved)
 ICPMSSEA (Dissolved)
 ICPMSSEA (Dissolved)
 ICPMSSEA (Dissolved)
 ICPMSSEA (Dissolved)
 ICPMSSEA (Dissolved)
 ICPMSSEA (Dissolved)
 ICPMSSEA (Dissolved)
 ICPMSSEA (Dissolved)
 ICPMSW (Dissolved)
 ICPWATVAR (Dissolved)
 ICPWATVAR (Dissolved)
 ICPWATVAR (Dissolved)
 ICPWATVAR (Dissolved)
 KONENS
 KONENS
 KONENS
 OGSNMS
 PAHMSW
 PHCONDW
 PHEHPLCUV
 SFAP
 SVOCsW
 TOCW
 TOCW
 TPHFID (Aliphatic)
 TPHFID (Aromatic)
 VOCHSAW
 WSLM10

Method Description

BTEX by GCFID
 Chromium III (Trivalent) (Calc)
 GRO CWG (C5-C10) Ali/Aro Split
 Arsenic (Diss.) in Saline Water by ICPMS
 Cadmium (Diss.) in Saline Water by ICPMS
 Copper (Diss.) in Saline Water by ICPMS
 Lead (Diss.) in Saline Water by ICPMS
 Mercury (Diss.) in Saline Water by ICPMS
 Nickel (Diss.) in Saline Water by ICPMS
 Selenium (Diss.) in Saline Water by ICPMS
 Vanadium (Diss.) in Saline Water by ICPMS
 Zinc (Diss.) in Saline Water by ICPMS
 Chromium (Diss.) in Water by ICPMS
 Beryllium (Diss.) in Saline Water by ICPOES
 Boron (Diss.) in Saline Water by ICPOES
 Total Hardness as CaCO₃ in Saline Water
 Total Sulphur as SO₄ (Diss.) in Saline Water
 Ammoniacal Nitrogen as N
 Chloride by Colorimetry
 Chromium VI (Hexavalent) by Colorimetry
 Organotins Suite (DBT, TBT, TPhT)
 16 PAHs by GCMS
 pH
 Phenols Suite by HPLC UV
 Cyanide (Total) by SFA
 SVOCs (Target List) by GCMS
 DOC: Dissolved Organic Carbon
 TOC: Total Organic Carbon
 TPH (CWG) Aliphatic Split with Carbon
 Banding
 TPH (CWG) Aromatic Split with Carbon
 Banding
 VOCs (Target List) by GCMS
 TSS: Total Suspended Solids

Analysis Method

Unfiltered
 Filtered
 Unfiltered
 Filtered
 Filtered
 Filtered
 Filtered
 Filtered
 Filtered
 Filtered
 Filtered
 Filtered
 Filtered
 Filtered
 Filtered
 Filtered
 Filtered
 Filtered
 Filtered
 Unfiltered
 Unfiltered
 Unfiltered
 Unfiltered
 Filtered
 Unfiltered
 Unfiltered
 Unfiltered
 Unfiltered
 Unfiltered
 Unfiltered



Project Number: [24032944](#)

Client: Geotechnical Engineering Limited
Date Issued: 05/04/2024
Project Name: 37977 - Falmouth Docks Development

WSLM12	Total Alkalinity as CaCO ₃	Unfiltered
WSLM20	BOD: Biological Oxygen Demand (Total)	Unfiltered
WSLM27	TDS: Total Dissolved Solids	Filtered

Result Report Notes

Letters alongside results signify that the result has associated report notes.
The report notes are as follows:

<u>Letter</u>	<u>Note</u>
A	Due to the matrix of the sample the laboratory has had to deviate from our standard protocols to be able to process the sample and provide a result. Where applicable the accreditation has been removed and this should be taken into consideration when utilising the data.
B	The QC associated with this result has not wholly met the QMS requirements, the accreditation has therefore been removed. However, the Laboratory has confidence in the performance of the method as a whole and that the integrity of the data has not been significantly compromised.
C	Due to matrix interference, the internal standard and/or surrogate has not met the QMS requirements. This should be taken into consideration when utilising the data.
D	A non-standard volume or mass has been used for this test which has resulted in a raised detection limit.
E	Due to the parameter value being beyond our calibration range (and following the maximum size of dilution allowed, where applicable), the result cannot be quantified and as such the result will appear as a greater than symbol (>) with the accreditation removed. This data should be used for indicative purposes only.
F	Based on the sample history, appearance and smell a dilution was applied prior to testing. Unfortunately, the result is either above (>) or below (<) our calibration range. Results above our calibration range have accreditation removed. The data should be used for indicative purposes only.
G	The day 5 oxygen reading was below the capability of the instrument to detect, and therefore the calculated BOD has been reported unaccredited for guidance purposes only.

HWOL Acronym Key

<u>Acronym</u>	<u>Description</u>
HS	Headspace Analysis
EH	Extractable Hydrocarbons - i.e everything extracted by the solvent(s)
CU	Clean up - e.g. by florisil, silica gel
1D	GC - Single coil gas chromatography
Total	Aliphatics & Aromatics
AL	Aliphatics only
AR	Aromatics only
+	Operator to indicate cumulative e.g. EH_CU+HS_1D_Total

SVOCSW - N-Nitrosodiphenylamine

N-Nitrosodiphenylamine decomposes in the GC inlet and cannot be separated from diphenylamine. For this reason we will report a combined result for N-Nitrosodiphenylamine and Diphenylamine.



Project Number: [24032944](#)

Client: Geotechnical Engineering Limited

Date Issued: 05/04/2024

Project Name: 37977 - Falmouth Docks Development

Additional Information

This report refers to samples as received. SOCOTEC UK Ltd takes no responsibility for accuracy or competence of sampling by others.

Results within this report relate only to the samples tested.

The accreditation codes are as follows:

U = UKAS accredited analysis
M = MCERT accredited analysis
N = Unaccredited analysis

Any accreditation marked with ^ signify results are reported on a dry weight basis of 105 ° c.

All Air Dried and Ground Samples (ADG) are oven dried at less than 35 ° c.

This report shall not be reproduced except in full, without written approval of the laboratory.

Opinions and interpretations given are outside the scope of our UKAS accreditation.

Any results marked with * are not covered by our scope of UKAS accreditation. If applicable, further report notes have been added.

Any solid samples where the Major Constituents are not one of the following (Sand, Silt, Clay, Made Ground) are not one of our accredited matrix types.

Any samples marked with a tick in the deviant table is deviant for the specific reason.

Any samples reported as IS, NA, ND mean the following:

IS = Insufficient Sample to complete analysis
NA = Sample is not amenable for the required analysis
ND = Results cannot be determined

Items listed with a 'SUB' method code prefix have been carried out by another SOCOTEC department or by an external subcontracted laboratory.

Our deviating sample report does not include deviancy information for Subcontracted analysis. Please see the report from the subcontracted lab for information regarding any deviancies for this analysis.

Summaries of analysis methods are available upon request.

End of Certificate of Analysis

Certificate of Analysis

Client: Geotechnical Engineering Limited

Project: 24032954

Quote: BEC240334421 V1.2

Project Ref: 37977

Site: Falmouth Docks Development

Contact: Mark Jones

Address: Centurion House,
Olympus Park, Quedgeley
Gloucester
GL2 4NF

E-Mail: mark.jones@geoeng.co.uk

Phone: 07748 775522

No. Samples Received: 3

Date Received: 22/03/2024

Analysis Completed: 04/04/2024

Date Issued: 04/04/2024

Report Type: Version 01

This report supersedes any versions previously issued by the laboratory



Reported by Customer Service Co-Ordinator
Samantha Edwards
01283 554 541
Samantha.Edwards@socotec.co.uk



Project Number: 24032954

Client: Geotechnical Engineering Limited
Date Issued: 04/04/2024
Project Name: 37977 - Falmouth Docks Development

Samples Analysed

<u>Text ID</u>	<u>Sample Reference</u>	<u>Sampling Date</u>	<u>Sample Type</u>	<u>Sample Description</u>
24032954-001	VC22	19/03/2024 16:05:00	WATER	Surface Water
24032954-002	VC24	19/03/2024 17:15:00	WATER	Surface Water
24032954-003	VC25	19/03/2024 18:50:00	WATER	Surface Water

Analysis Results

SOCOTEC Sample ID:				24032954-001	24032954-002	24032954-003
Sampling Date:				19/03/2024 16:05	19/03/2024 17:15	19/03/2024 18:50
Customer ID:				VC22	VC24	VC25
Method Code	Analysis	MDL	Accred.			
PHCONDW	pH	1 pH units	U	8.1	8.1	8.1
WSLM20	BOD (5 day)	1 mg O2/l	U	1.1	1.4	<1.0
WSLM12	Total Alkalinity	2 mg/l	U	109	112	115
WSLM10	Total Suspended Solids	5 mg/l	U	<5	<5	<5
WSLM27	TDS as mg/L	5 mg/l	N	59400	35900	39700
TOCW	Total Organic Carbon	0.4 mg/l	U	1.18	1.18	1.05
TOCW	Dissolved Organic Carbon	0.4 mg/l	U	1.13	1.11	1.03
KONENS	Ammoniacal Nitrogen as N	0.01 mg/l	U	0.32	0.32	0.20
KONENS	Chloride as Cl	1 mg/l	U	13500	11100	13700
SFAPI	Total Cyanide	0.02 mg/l	U	<0.02	<0.02	0.02
ICPMSSEA (Dissolved)	Arsenic as As	0.001 mg/l	N	0.003	0.004	0.003
ICPWATVAR (Dissolved)	Beryllium as Be	0.01 mg/l	N	<0.01	<0.01	<0.01
ICPWATVAR (Dissolved)	Boron as B	0.01 mg/l	N	3.78	3.89	3.94
ICPMSSEA (Dissolved)	Cadmium as Cd	0.0001 mg/l	N	<0.0001	<0.0001	<0.0001
ICPSMW (Dissolved)	Total Chromium as Cr	0.001 mg/l	U	0.002	<0.001	0.001
CALC_CR3	Chromium (III)	0.003 mg/l	U	<0.003	<0.003	<0.003
KONENS	Chromium (VI) as Cr	0.003 mg/l	U	0.003	<0.003	<0.003
ICPMSSEA (Dissolved)	Copper as Cu	0.001 mg/l	N	0.004	0.004	0.003
ICPMSSEA (Dissolved)	Lead as Pb	0.001 mg/l	N	0.050	0.043	0.019
ICPMSSEA (Dissolved)	Mercury as Hg	0.0001 mg/l	N	<0.0001	<0.0001	<0.0001
ICPMSSEA (Dissolved)	Nickel as Ni	0.001 mg/l	N	0.007	0.005	0.004
ICPMSSEA (Dissolved)	Selenium as Se	0.001 mg/l	N	0.040	0.027	0.020
ICPWATVAR (Dissolved)	Total Sulphur as SO4	3 mg/l	N	2300	2380	2390
ICPMSSEA (Dissolved)	Vanadium as V	0.001 mg/l	N	0.002	0.001	0.002
ICPMSSEA (Dissolved)	Zinc as Zn	0.002 mg/l	N	0.051	0.054	0.062
ICPWATVAR (Dissolved)	Total Hardness as CaCO3	6.6 mg/l	N	5190	5370	5400
BTEXHSA	Benzene (HS_1D_AR)	5 µg/l	U	<5	<5	<5
	Toluene (HS_1D_AR)	5 µg/l	U	<5	<5	<5
	Ethylbenzene (HS_1D_AR)	5 µg/l	U	<5	<5	<5
	m/p-Xylene (HS_1D_AR)	10 µg/l	U	<10	<10	<10
	o-Xylene (HS_1D_AR)	5 µg/l	U	<5	<5	<5
GROHSA/BTEXHSA	Total GRO C5-C10 (HS_1D_Total)	0.1 mg/l	U	<0.100	<0.100	<0.100
	C5-C6 Aliphatic (HS_1D_AL)	0.1 mg/l	N	<0.100	<0.100	<0.100
	>C6-C7 Aliphatic (HS_1D_AL)	0.1 mg/l	N	<0.100	<0.100	<0.100
	>C7-C8 Aliphatic (HS_1D_AL)	0.1 mg/l	N	<0.100	<0.100	<0.100
	>C8-C10 Aliphatic (HS_1D_AL)	0.1 mg/l	N	<0.100	<0.100	<0.100
	C5-C7 Aromatic (HS_1D_AR)	0.005 mg/l	U	<0.005	<0.005	<0.005
	>C7-C8 Aromatic (HS_1D_AR)	0.005 mg/l	U	<0.005	<0.005	<0.005
	>C8-C10 Aromatic (HS_1D_AR)	0.02 mg/l	U	<0.020	<0.020	<0.020
	Total TPH >C8-C40 (Aliphatic) (EH_CU_1D_AL)	0.01 mg/l	U	0.09	<0.01	0.07
TPHFID (Aliphatic)	>C10-C12 (Aliphatic) (EH_CU_1D_AL)	0.01 mg/l	U	<0.01	<0.01	<0.01
	>C12-C16 (Aliphatic) (EH_CU_1D_AL)	0.01 mg/l	U	<0.01	<0.01	<0.01
	>C16-C21 (Aliphatic) (EH_CU_1D_AL)	0.01 mg/l	U	<0.01	<0.01	<0.01
	>C21-C35 (Aliphatic) (EH_CU_1D_AL)	0.01 mg/l	U	0.08	<0.01	0.06
	Total TPH >C8-C40 (Aromatic) (EH_CU_1D_AR)	0.01 mg/l	U	0.03	0.02	0.04
TPHFID (Aromatic)	>C10-C12 (Aromatic) (EH_CU_1D_AR)	0.01 mg/l	U	<0.01	<0.01	<0.01
	>C12-C16 (Aromatic) (EH_CU_1D_AR)	0.01 mg/l	U	<0.01	<0.01	<0.01
	>C16-C21 (Aromatic) (EH_CU_1D_AR)	0.01 mg/l	U	<0.01	<0.01	<0.01
	>C21-C35 (Aromatic) (EH_CU_1D_AR)	0.01 mg/l	U	0.03	0.01	0.02
	Acenaphthene	0.01 µg/l	U	<0.01	<0.01	<0.01
PAHMSW	Acenaphthylene	0.01 µg/l	U	<0.01	<0.01	<0.01
	Anthracene	0.01 µg/l	U	<0.01	<0.01	<0.01
	Benzo[a]anthracene	0.01 µg/l	U	<0.01	<0.01	<0.01
	Benzo[a]pyrene	0.01 µg/l	U	<0.01	<0.01	<0.01
	Benzo[b]fluoranthene	0.01 µg/l	U	<0.01	<0.01	<0.01
	Benzo[g,h,i]perylene	0.01 µg/l	U	<0.01	<0.01	<0.01
	Benzo[k]fluoranthene	0.01 µg/l	U	<0.01	<0.01	<0.01
	Chrysene	0.01 µg/l	U	<0.01	<0.01	<0.01
	Dibenzo[a,h]anthracene	0.01 µg/l	U	<0.01	<0.01	<0.01
	Fluoranthene	0.01 µg/l	U	<0.01	<0.01	<0.01
	Fluorene	0.01 µg/l	U	<0.01	<0.01	<0.01
	Indeno[1,2,3-cd]pyrene	0.01 µg/l	U	<0.01	<0.01	<0.01
	Naphthalene	0.01 µg/l	U	<0.01	<0.01	<0.01
	Phenanthrene	0.01 µg/l	U	<0.01	<0.01	<0.01
	Pyrene	0.01 µg/l	U	<0.01	<0.01	<0.01
	Total PAH 16	0.16 µg/l	U	<0.16	<0.16	<0.16
PHEHPLCUV	Phenol	0.05 mg/l	U	<0.05	<0.05	<0.05
	Methylphenols	0.05 mg/l	U	<0.05	<0.05	<0.05
	Dimethylphenols	0.05 mg/l	U	<0.05	<0.05	<0.05
	Trimethylphenols	0.05 mg/l	U	<0.05	<0.05	<0.05
	Total Phenols	0.2 mg/l	U	<0.20	<0.20	<0.20
SVOCSW	1,2,4-Trichlorobenzene	0.005 mg/l	N	<0.005	<0.005	<0.005
	1,2-Dichlorobenzene	0.005 mg/l	N	<0.005	<0.005	<0.005
	1,3-Dichlorobenzene	0.005 mg/l	N	<0.005	<0.005	<0.005
	1,4-Dichlorobenzene	0.005 mg/l	N	<0.005	<0.005	<0.005
	1-Methylnaphthalene	0.002 mg/l	N	<0.002	<0.002	<0.002
	2,4,5-Trichlorophenol	0.02 mg/l	N	<0.020	<0.020	<0.020
	2,4,6-Trichlorophenol	0.02 mg/l	N	<0.020	<0.020	<0.020
	2,4-Dichlorophenol	0.02 mg/l	N	<0.020	<0.020	<0.020
	2,4-Dimethylphenol	0.02 mg/l	N	<0.020	<0.020	<0.020
	2,4-Dinitrophenol	0.01 mg/l	N	<0.010	<0.010	<0.010
	2,4-Dinitrotoluene	0.005 mg/l	N	<0.005	<0.005	<0.005

Analysis Results

SOCOTEC Sample ID:	24032954-001	24032954-002	24032954-003
Sampling Date:	19/03/2024 16:05	19/03/2024 17:15	19/03/2024 18:50

Method Code	Analysis	MDL	Accred.	VC22	VC24	VC25
SVOCSW	2,6-Dinitrotoluene	0.005 mg/l	N	<0.005	<0.005	<0.005
	2-Chloronaphthalene	0.002 mg/l	N	<0.002	<0.002	<0.002
	2-Chlorophenol	0.02 mg/l	N	<0.020	<0.020	<0.020
	2-Methylnaphthalene	0.002 mg/l	N	<0.002	<0.002	<0.002
	2-Methylphenol	0.005 mg/l	N	<0.005	<0.005	<0.005
	2-Nitroaniline	0.005 mg/l	N	<0.005	<0.005	<0.005
	2-Nitrophenol	0.02 mg/l	N	<0.020	<0.020	<0.020
	3- & 4-Methylphenol	0.02 mg/l	N	<0.020	<0.020	<0.020
	3-Nitroaniline	0.005 mg/l	N	<0.005	<0.005	<0.005
	4,6-Dinitro-2-methylphenol	0.05 mg/l	N	<0.050	<0.050	<0.050
	4-Bromophenyl-phenylether	0.005 mg/l	N	<0.005	<0.005	<0.005
	4-Chloro-3-methylphenol	0.005 mg/l	N	<0.005	<0.005	<0.005
	4-Chloroaniline	0.005 mg/l	N	<0.005	<0.005	<0.005
	4-Chlorophenol	0.02 mg/l	N	<0.020	<0.020	<0.020
	4-Chlorophenyl-phenylether	0.005 mg/l	N	<0.005	<0.005	<0.005
	4-Nitroaniline	0.005 mg/l	N	<0.005	<0.005	<0.005
	4-Nitrophenol	0.05 mg/l	N	<0.050	<0.050	<0.050
	Acenaphthene	0.002 mg/l	N	<0.002	<0.002	<0.002
	Acenaphthylene	0.002 mg/l	N	<0.002	<0.002	<0.002
	Anthracene	0.002 mg/l	N	<0.002	<0.002	<0.002
	Azobenzene	0.01 mg/l	N	<0.010	<0.010	<0.010
	Benzo[a]anthracene	0.002 mg/l	N	<0.002	<0.002	<0.002
	Benzo[a]pyrene	0.002 mg/l	N	<0.002	<0.002	<0.002
	Benzo[b]fluoranthene	0.002 mg/l	N	<0.002	<0.002	<0.002
	Benzo[g,h,i]perylene	0.002 mg/l	N	<0.002	<0.002	<0.002
	Benzo[k]fluoranthene	0.002 mg/l	N	<0.002	<0.002	<0.002
	Benzoic Acid	0.1 mg/l	N	<0.100	<0.100	<0.100
	Benzyl alcohol	0.005 mg/l	N	<0.005	<0.005	<0.005
	Biphenyl	0.002 mg/l	N	<0.002	<0.002	<0.002
	bis(2-Chloroethoxy)methane	0.005 mg/l	N	<0.005	<0.005	<0.005
	bis(2-Chloroethyl)ether	0.005 mg/l	N	<0.005	<0.005	<0.005
	bis(2-Chloroisopropyl)ether	0.005 mg/l	N	<0.005	<0.005	<0.005
	bis(2-Ethylhexyl)phthalate	0.005 mg/l	N	<0.005	<0.005	<0.005
	Butylbenzylphthalate	0.005 mg/l	N	<0.005	<0.005	<0.005
	Carbazole	0.01 mg/l	N	<0.010	<0.010	<0.010
	Chrysene	0.002 mg/l	N	<0.002	<0.002	<0.002
	Coronene	0.05 mg/l	N	<0.050	<0.050	<0.050
	Dibenzo[a,h]anthracene	0.002 mg/l	N	<0.002	<0.002	<0.002
	Dibenzofuran	0.005 mg/l	N	<0.005	<0.005	<0.005
	Diethylphthalate	0.005 mg/l	N	<0.005	<0.005	<0.005
	Dimethylphthalate	0.005 mg/l	N	<0.005	<0.005	<0.005
	Di-n-butylphthalate	0.005 mg/l	N	<0.005	<0.005	<0.005
	Di-n-octylphthalate	0.002 mg/l	N	<0.002	<0.002	<0.002
	Diphenyl ether	0.002 mg/l	N	<0.002	<0.002	<0.002
	Fluoranthene	0.002 mg/l	N	<0.002	<0.002	<0.002
	Fluorene	0.002 mg/l	N	<0.002	<0.002	<0.002
	Hexachlorobenzene	0.005 mg/l	N	<0.005	<0.005	<0.005
	Hexachlorobutadiene	0.005 mg/l	N	<0.005	<0.005	<0.005
	Hexachlorocyclopentadiene	0.005 mg/l	N	<0.005	<0.005	<0.005
	Hexachloroethane	0.005 mg/l	N	<0.005	<0.005	<0.005
	Indeno[1,2,3-cd]pyrene	0.002 mg/l	N	<0.002	<0.002	<0.002
	Isophorone	0.005 mg/l	N	<0.005	<0.005	<0.005
	Naphthalene	0.002 mg/l	N	<0.002	<0.002	<0.002
	Nitrobenzene	0.005 mg/l	N	<0.005	<0.005	<0.005
	N-Nitroso-di-n-propylamine	0.005 mg/l	N	<0.005	<0.005	<0.005
	N-Nitrosodiphenylamine	0.005 mg/l	N	<0.005	<0.005	<0.005
	Pentachlorophenol	0.05 mg/l	N	<0.050	<0.050	<0.050
	Phenanthrene	0.002 mg/l	N	<0.002	<0.002	<0.002
	Phenol	0.02 mg/l	N	<0.020	<0.020	<0.020
	Pyrene	0.002 mg/l	N	<0.002	<0.002	<0.002
VOCHSAW	1,1,1,2-Tetrachloroethane	1 µg/l	U	<1	<1	<1
	1,1,1-Trichloroethane	1 µg/l	U	<1	<1	<1
	1,1,2,2-Tetrachloroethane	1 µg/l	N	<1	<1	<1
	1,1,2-Trichloroethane	1 µg/l	U	<1	<1	<1
	1,1-Dichloroethane	1 µg/l	U	<1	<1	<1
	1,1-Dichloroethene	1 µg/l	U	<1	<1	<1
	1,1-Dichloropropene	1 µg/l	U	<1	<1	<1
	1,2,3-Trichlorobenzene	5 µg/l	U	<5	<5	<5
	1,2,3-Trichloropropane	1 µg/l	U	<1	<1	<1
	1,2,4-Trichlorobenzene	5 µg/l	U	<5	<5	<5
	1,2,4-Trimethylbenzene	1 µg/l	U	<1	<1	<1
	1,2-Dibromo-3-chloropropane	5 µg/l	U	<5	<5	<5
	1,2-Dibromoethane	1 µg/l	U	<1	<1	<1
	1,2-Dichlorobenzene	5 µg/l	U	<5	<5	<5
	1,2-Dichloroethane	1 µg/l	U	<1	<1	<1
	1,2-Dichloropropane	1 µg/l	U	<1	<1	<1
	1,3,5-Trimethylbenzene	0.6 µg/l	U	<0.6	<0.6	<0.6
	1,3-Dichlorobenzene	1 µg/l	U	<1	<1	<1
	1,3-Dichloropropane	1 µg/l	N	<1	<1	<1
	1,4-Dichlorobenzene	1 µg/l	U	<1	<1	<1
	2,2-Dichloropropane	1 µg/l	N	<1	<1	<1
	2-Chlorotoluene	1 µg/l	U	<1	<1	<1

Analysis Results

SOCOTEC Sample ID:	24032954-001	24032954-002	24032954-003
Sampling Date:	19/03/2024 16:05	19/03/2024 17:15	19/03/2024 18:50

Method Code	Analysis	Customer ID:		VC22	VC24	VC25
		MDL	Accred.			
VOCHSAW	4-Chlorotoluene	1 µg/l	U	<1	<1	<1
	Benzene	1 µg/l	U	<1	<1	<1
	Bromobenzene	1 µg/l	U	<1	<1	<1
	Bromochloromethane	1 µg/l	U	<1	<1	<1
	Bromodichloromethane	1 µg/l	U	<1	<1	<1
	Bromoform	1 µg/l	U	<1	<1	<1
	Bromomethane	5 µg/l	N	<5	<5	<5
	Carbon Tetrachloride	1 µg/l	U	<1	<1	<1
	Chlorobenzene	1 µg/l	U	<1	<1	<1
	Chloroethane	5 µg/l	U	<5	<5	<5
	Chloroform	5 µg/l	U	<5	<5	<5
	Chloromethane	1 µg/l	U	<1	<1	<1
	cis 1,2-Dichloroethene	1 µg/l	U	<1	<1	<1
	cis 1,3-Dichloropropene	1 µg/l	N	<1	<1	<1
	Dibromochloromethane	1 µg/l	U	<1	<1	<1
	Dibromomethane	1 µg/l	U	<1	<1	<1
	Dichlorodifluoromethane	1 µg/l	N	<1	<1	<1
	Ethylbenzene	0.5 µg/l	U	<0.5	<0.5	<0.5
	Hexachlorobutadiene	5 µg/l	U	<5	<5	<5
	iso-Propylbenzene	1 µg/l	U	<1	<1	<1
	m and p-Xylene	1 µg/l	U	<1	<1	<1
	MTBE	1 µg/l	N	<1	<1	<1
	Naphthalene	5 µg/l	U	<5	<5	<5
	n-Butylbenzene	1 µg/l	U	<1	<1	<1
	o-Xylene	1 µg/l	U	<1	<1	<1
	p-Isopropyltoluene	1 µg/l	U	<1	<1	<1
	Propylbenzene	1 µg/l	U	<1	<1	<1
	sec-Butylbenzene	1 µg/l	U	<1	<1	<1
	Styrene	1 µg/l	U	<1	<1	<1
	tert-Butylbenzene	1 µg/l	U	<1	<1	<1
	Tetrachloroethene	5 µg/l	U	<5	<5	<5
	Toluene	1 µg/l	U	<1	<1	<1
	trans 1,2-Dichloroethene	1 µg/l	U	<1	<1	<1
	trans 1,3-Dichloropropene	1 µg/l	U	<1	<1	<1
	Trichloroethene	5 µg/l	U	<5	<5	<5
	Trichlorofluoromethane	1 µg/l	U	<1	<1	<1
	Vinyl Chloride	1 µg/l	U	<1	<1* _a	<1* _a
OGSNMS	Dibutyltin as Sn	20 ng Sn/l	N	<20	<20	<20
	Tributyltin as Sn	20 ng Sn/l	N	<20	<20	<20
	Triphenyltin as Sn	50 ng Sn/l	N	<50	<50	<50

Deviating Sample Report

			Incorrect Container	Incorrect Label	Headspace	Incorrect/No Preservative	No Sampling Date	Holding Time
<u>Sample Reference</u>	<u>Text ID</u>	<u>Method Code</u>						
VC22	24032954-001	PHCONDW						✓
VC22	24032954-001	WSLM20						✓
VC24	24032954-002	PHCONDW						✓
VC24	24032954-002	WSLM20						✓
VC25	24032954-003	PHCONDW						✓
VC25	24032954-003	WSLM20						✓

Analysis Method

Method Code	Method Description	Analysis Method
BTEXHSA	BTEX by GC/FID	Unfiltered
CALC_CR3	Chromium III (Trivalent) (Calc)	Filtered
GROHSA/BTEXHSA	GRO CWG (C5-C10) Ali/Aro Split	Unfiltered
ICPMSSEA (Dissolved)	Arsenic (Diss.) in Saline Water by ICPMS	Filtered
ICPMSSEA (Dissolved)	Cadmium (Diss.) in Saline Water by ICPMS	Filtered
ICPMSSEA (Dissolved)	Copper (Diss.) in Saline Water by ICPMS	Filtered
ICPMSSEA (Dissolved)	Lead (Diss.) in Saline Water by ICPMS	Filtered
ICPMSSEA (Dissolved)	Mercury (Diss.) in Saline Water by ICPMS	Filtered
ICPMSSEA (Dissolved)	Nickel (Diss.) in Saline Water by ICPMS	Filtered
ICPMSSEA (Dissolved)	Selenium (Diss.) in Saline Water by ICPMS	Filtered
ICPMSSEA (Dissolved)	Vanadium (Diss.) in Saline Water by ICPMS	Filtered
ICPMSSEA (Dissolved)	Zinc (Diss.) in Saline Water by ICPMS	Filtered
ICPMSW (Dissolved)	Chromium (Diss.) in Water by ICPMS	Filtered
ICPWATVAR (Dissolved)	Beryllium (Diss.) in Saline Water by ICPOES	Filtered
ICPWATVAR (Dissolved)	Boron (Diss.) in Saline Water by ICPOES	Filtered
ICPWATVAR (Dissolved)	Total Hardness as CaCO3 in Saline Water	Filtered
ICPWATVAR (Dissolved)	Total Sulphur as SO4 (Diss.) in Saline Water	Filtered
KONENS	Ammoniacal Nitrogen as N	Filtered
KONENS	Chloride by Colorimetry	Filtered
KONENS	Chromium VI (Hexavalent) by Colorimetry	Filtered
OGSNMS	Organotins Suite (DBT, TBT, TPHT)	Unfiltered
PAHMSW	16 PAHs by GCMS	Unfiltered
PHCONDW	pH	Unfiltered
PHEHPLCUV	Phenols Suite by HPLC UV	Unfiltered
SFAPI	Cyanide (Total) by SFA	Unfiltered
SVOCSW	SVOCs (Target List) by GCMS	Unfiltered
TOCW	DOC: Dissolved Organic Carbon	Filtered
TOCW	TOC: Total Organic Carbon	Unfiltered
TPHFID (Aliphatic)	TPH (CWG) Aliphatic Split with Carbon Banding	Unfiltered
TPHFID (Aromatic)	TPH (CWG) Aromatic Split with Carbon Banding	Unfiltered
VOCHSAW	VOCs (Target List) by GCMS	Unfiltered
WSLM10	TSS: Total Suspended Solids	Unfiltered

**Project Number: 24032954**

Client: Geotechnical Engineering Limited
Date Issued: 04/04/2024
Project Name: 37977 - Falmouth Docks Development

WSLM12	Total Alkalinity as CaCO ₃	Unfiltered
WSLM20	BOD: Biological Oxygen Demand (Total)	Unfiltered
WSLM27	TDS: Total Dissolved Solids	Filtered

Result Report Notes

Letters alongside results signify that the result has associated report notes.
The report notes are as follows:

<u>Letter</u>	<u>Note</u>
A	Due to the matrix of the sample the laboratory has had to deviate from our standard protocols to be able to process the sample and provide a result. Where applicable the accreditation has been removed and this should be taken into consideration when utilising the data.
B	The QC associated with this result has not wholly met the QMS requirements, the accreditation has therefore been removed. However, the Laboratory has confidence in the performance of the method as a whole and that the integrity of the data has not been significantly compromised.
C	Due to matrix interference, the internal standard and/or surrogate has not met the QMS requirements. This should be taken into consideration when utilising the data.
D	A non-standard volume or mass has been used for this test which has resulted in a raised detection limit.
E	Due to the parameter value being beyond our calibration range (and following the maximum size of dilution allowed, where applicable), the result cannot be quantified and as such the result will appear as a greater than symbol (>) with the accreditation removed. This data should be used for indicative purposes only.
F	Based on the sample history, appearance and smell a dilution was applied prior to testing. Unfortunately, the result is either above (>) or below (<) our calibration range. Results above our calibration range have accreditation removed. The data should be used for indicative purposes only.
G	The day 5 oxygen reading was below the capability of the instrument to detect, and therefore the calculated BOD has been reported unaccredited for guidance purposes only.

HWOL Acronym Key

<u>Acronym</u>	<u>Description</u>
HS	Headspace Analysis
EH	Extractable Hydrocarbons - i.e everything extracted by the solvent(s)
CU	Clean up - e.g. by florisil, silica gel
1D	GC - Single coil gas chromatography
Total	Aliphatics & Aromatics
AL	Aliphatics only
AR	Aromatics only
+	Operator to indicate cumulative e.g. EH_CU+HS_1D_Total

SVOCSW - N-Nitrosodiphenylamine

N-Nitrosodiphenylamine decomposes in the GC inlet and cannot be separated from diphenylamine. For this reason we will report a combined result for N-Nitrosodiphenylamine and Diphenylamine.



Project Number: [24032954](#)

Client: Geotechnical Engineering Limited

Date Issued: 04/04/2024

Project Name: 37977 - Falmouth Docks Development

Additional Information

This report refers to samples as received. SOCOTEC UK Ltd takes no responsibility for accuracy or competence of sampling by others.

Results within this report relate only to the samples tested.

The accreditation codes are as follows:

U = UKAS accredited analysis
M = MCERT accredited analysis
N = Unaccredited analysis

Any accreditation marked with ^ signify results are reported on a dry weight basis of 105 ° c.

All Air Dried and Ground Samples (ADG) are oven dried at less than 35 ° c.

This report shall not be reproduced except in full, without written approval of the laboratory.

Opinions and interpretations given are outside the scope of our UKAS accreditation.

Any results marked with * are not covered by our scope of UKAS accreditation. If applicable, further report notes have been added.

Any solid samples where the Major Constituents are not one of the following (Sand, Silt, Clay, Made Ground) are not one of our accredited matrix types.

Any samples marked with a tick in the deviant table is deviant for the specific reason.

Any samples reported as IS, NA, ND mean the following:

IS = Insufficient Sample to complete analysis
NA = Sample is not amenable for the required analysis
ND = Results cannot be determined

Items listed with a 'SUB' method code prefix have been carried out by another SOCOTEC department or by an external subcontracted laboratory.

Our deviating sample report does not include deviancy information for Subcontracted analysis. Please see the report from the subcontracted lab for information regarding any deviancies for this analysis.

Summaries of analysis methods are available upon request.

End of Certificate of Analysis

Certificate of Analysis

Client: Geotechnical Engineering Limited

Project: 24032970

Quote: BEC240334421 V1.2

Project Ref: 37977

Site: Falmouth Docks Development

Contact: Mark Jones

Address: Centurion House,
Olympus Park, Quedgeley
Gloucester
GL2 4NF

E-Mail: mark.jones@geoeng.co.uk

Phone: 07748 775522

No. Samples Received: 6

Date Received: 22/03/2024

Analysis Completed: 05/04/2024

Date Issued: 05/04/2024

Report Type: Version 01

This report supersedes any versions previously issued by the laboratory



Reported by Account Manager
Elise Ford
01283 554434
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**Project Number: 24032970**

Client: Geotechnical Engineering Limited
Date Issued: 05/04/2024
Project Name: 37977 - Falmouth Docks Development

Samples Analysed

<u>Text ID</u>	<u>Sample Reference</u>	<u>Sampling Date</u>	<u>Sample Type</u>	<u>Sample Description</u>
24032970-001	VC-12	20/03/2024 15:30:00	WATER	Surface Water
24032970-002	VC-15	20/03/2024 13:05:00	WATER	Surface Water
24032970-003	VC-16	20/03/2024 10:35:00	WATER	Surface Water
24032970-004	VC-14	20/03/2024 10:10:00	WATER	Surface Water
24032970-005	VC-26	20/03/2024 10:25:00	WATER	Surface Water
24032970-006	VC-09-0-ES-0.0-5.6	19/03/2024 00:00:00	SOLID	Clay Sample

Analysis Results

SOCOTEC Sample ID:				24032970-001	24032970-002	24032970-003	24032970-004	24032970-005
Sampling Date:				20/03/2024 15:30	20/03/2024 13:05	20/03/2024 10:35	20/03/2024 10:10	20/03/2024 10:25
Customer ID:				VC-12	VC-15	VC-16	VC-14	VC-26
Method Code	Analysis	MDL	Accred.					
PHCONDW	pH	1 pH units	U	8.1	8.1	8.1	8.1	8.1
WSLM20	BOD (5 day)	1 mg O2/l	U	2.3	1.4	2.2	1.3	1.7
WSLM12	Total Alkalinity	2 mg/l	U	113	118	113	112	113
WSLM10	Total Suspended Solids	5 mg/l	U	<5	<5	<5	<5	<5
WSLM27	TDS as mg/L	5 mg/l	N	52300	37700	37700	37100	39500
TOCW	Total Organic Carbon	0.4 mg/l	U	1.53	1.39	1.03	1.05	1.11
TOCW	Dissolved Organic Carbon	0.4 mg/l	U	1.09	1.05	1.04	1.00	1.04
KONENS	Ammoniacal Nitrogen as N	0.01 mg/l	U	0.20	0.20	0.20	0.20	0.33
KONENS	Chloride as Cl	1 mg/l	U	10300	12200	13400	12800	13100
SFAPI	Total Cyanide	0.02 mg/l	U	<0.02	<0.02	<0.02	0.03	<0.02
ICPMSSEA (Dissolved)	Arsenic as As	0.001 mg/l	N	0.003	0.003	0.004	0.002	0.003
ICPWATVAR (Dissolved)	Beryllium as Be	0.01 mg/l	N	<0.01	<0.01	<0.01	<0.01	<0.01
ICPWATVAR (Dissolved)	Boron as B	0.01 mg/l	N	4.05	4.04	3.97	4.11	3.86
ICPMSSEA (Dissolved)	Cadmium as Cd	0.0001 mg/l	N	0.0001	<0.0001	0.0001	<0.0001	<0.0001
ICPMSW (Dissolved)	Total Chromium as Cr	0.001 mg/l	U	<0.001	<0.001	<0.001	<0.001	<0.001
CALC_CR3	Chromium (III)	0.003 mg/l	U	<0.003	<0.003	<0.003	<0.003	<0.003
KONENS	Chromium (VI) as Cr	0.003 mg/l	U	<0.003	<0.003	<0.003	<0.003	<0.003
ICPMSSEA (Dissolved)	Copper as Cu	0.001 mg/l	N	0.003	0.003	0.004	0.003	0.003
ICPMSSEA (Dissolved)	Lead as Pb	0.001 mg/l	N	0.049	0.032	0.037	0.024	0.029
ICPMSSEA (Dissolved)	Mercury as Hg	0.0001 mg/l	N	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
ICPMSSEA (Dissolved)	Nickel as Ni	0.001 mg/l	N	0.005	0.004	0.004	0.004	0.005
ICPMSSEA (Dissolved)	Selenium as Se	0.001 mg/l	N	0.017	0.021	0.020	0.017	0.028
ICPWATVAR (Dissolved)	Total Sulphur as SO4	3 mg/l	N	2490	2470	2430	2520	2340
ICPMSSEA (Dissolved)	Vanadium as V	0.001 mg/l	N	0.002	0.002	0.002	0.001	0.002
ICPMSSEA (Dissolved)	Zinc as Zn	0.002 mg/l	N	0.025	0.050	0.041	0.048	0.064
ICPWATVAR (Dissolved)	Total Hardness as CaCO3	6.6 mg/l	N	5620	5560	5480	5690	5280
BTEXHSA	Benzene (HS_1D_AR)	5 µg/l	U	<5	<5	<5	<5	<5
	Toluene (HS_1D_AR)	5 µg/l	U	<5	<5	<5	<5	<5
	Ethylbenzene (HS_1D_AR)	5 µg/l	U	<5	<5	<5	<5	<5
	m/p-Xylene (HS_1D_AR)	10 µg/l	U	<10	<10	<10	<10	<10
	o-Xylene (HS_1D_AR)	5 µg/l	U	<5	<5	<5	<5	<5
GROHSA/BTEXHSA	Total GRO C5-C10 (HS_1D_Total)	0.1 mg/l	U	<0.100	<0.100	<0.100	<0.100	<0.100
	C5-C6 Aliphatic (HS_1D_AL)	0.1 mg/l	N	<0.100	<0.100	<0.100	<0.100	<0.100
	>C6-C7 Aliphatic (HS_1D_AL)	0.1 mg/l	N	<0.100	<0.100	<0.100	<0.100	<0.100
	>C7-C8 Aliphatic (HS_1D_AL)	0.1 mg/l	N	<0.100	<0.100	<0.100	<0.100	<0.100
	>C8-C10 Aliphatic (HS_1D_AL)	0.1 mg/l	N	<0.100	<0.100	<0.100	<0.100	<0.100
	C5-C7 Aromatic (HS_1D_AR)	0.005 mg/l	U	<0.005	<0.005	<0.005	<0.005	<0.005
	>C7-C8 Aromatic (HS_1D_AR)	0.005 mg/l	U	<0.005	<0.005	<0.005	<0.005	<0.005
	>C8-C10 Aromatic (HS_1D_AR)	0.02 mg/l	U	<0.020	<0.020	<0.020	<0.020	<0.020
	Total TPH >C8-C40 (Aliphatic) (EH_CU_1D_AL)	0.01 mg/l	U	0.04	0.05	<0.01	0.01	<0.01
TPHFID (Aliphatic)	>C10-C12 (Aliphatic) (EH_CU_1D_AL)	0.01 mg/l	U	<0.04* _{BD}	<0.04* _{BD}	<0.01	<0.01	<0.01
	>C12-C16 (Aliphatic) (EH_CU_1D_AL)	0.01 mg/l	U	<0.04* _{BD}	<0.04* _{BD}	<0.01	<0.01	<0.01
	>C16-C21 (Aliphatic) (EH_CU_1D_AL)	0.01 mg/l	U	<0.04 _o	<0.04 _o	<0.01	<0.01	<0.01
	>C21-C35 (Aliphatic) (EH_CU_1D_AL)	0.01 mg/l	U	<0.04 _o	<0.04 _o	<0.01	<0.01	<0.01
TPHFID (Aromatic)	Total TPH >C8-C40 (Aromatic) (EH_CU_1D_AR)	0.01 mg/l	U	<0.04 _o	<0.04 _o	0.01	0.02	0.02
	>C10-C12 (Aromatic) (EH_CU_1D_AR)	0.01 mg/l	U	<0.04* _{BD}	<0.04* _{BD}	<0.01	<0.01	<0.01
	>C12-C16 (Aromatic) (EH_CU_1D_AR)	0.01 mg/l	U	<0.04* _{BD}	<0.04* _{BD}	<0.01	<0.01	<0.01
	>C16-C21 (Aromatic) (EH_CU_1D_AR)	0.01 mg/l	U	<0.04 _o	<0.04 _o	<0.01	<0.01	<0.01
	>C21-C35 (Aromatic) (EH_CU_1D_AR)	0.01 mg/l	U	<0.04 _o	<0.04 _o	<0.01	<0.01	0.02
PAHMSW	Acenaphthene	0.01 µg/l	U	<0.04 _o	<0.04 _o	<0.01	<0.01	<0.01
	Acenaphthylene	0.01 µg/l	U	<0.04 _o	<0.04 _o	<0.01	<0.01	<0.01
	Anthracene	0.01 µg/l	U	<0.04 _o	<0.04 _o	<0.01	<0.01	<0.01
	Benzo[a]anthracene	0.01 µg/l	U	<0.04 _o	<0.04 _o	<0.01	<0.01	<0.01
	Benzo[a]pyrene	0.01 µg/l	U	<0.04 _o	<0.04 _o	<0.01	<0.01	<0.01
	Benzo[b]fluoranthene	0.01 µg/l	U	<0.04 _o	<0.04 _o	<0.01	<0.01	<0.01
	Benzo[g,h,i]perylene	0.01 µg/l	U	<0.04 _o	<0.04 _o	<0.01	<0.01	<0.01
	Benzo[k]fluoranthene	0.01 µg/l	U	<0.04 _o	<0.04 _o	<0.01	<0.01	<0.01
	Chrysene	0.01 µg/l	U	<0.04 _o	<0.04 _o	<0.01	<0.01	<0.01
	Dibenzo[a,h]anthracene	0.01 µg/l	U	<0.04 _o	<0.04 _o	<0.01	<0.01	<0.01
	Fluoranthene	0.01 µg/l	U	<0.04 _o	<0.04 _o	<0.01	<0.01	<0.01
	Fluorene	0.01 µg/l	U	<0.04 _o	<0.04 _o	<0.01	<0.01	<0.01
	Indeno[1,2,3-cd]pyrene	0.01 µg/l	U	<0.04 _o	<0.04 _o	<0.01	<0.01	<0.01
	Naphthalene	0.01 µg/l	U	<0.04 _o	<0.04 _o	<0.01	<0.01	<0.01
	Phenanthrene	0.01 µg/l	U	<0.04 _o	<0.04 _o	<0.01	<0.01	<0.01
	Pyrene	0.01 µg/l	U	<0.04 _o	<0.04 _o	<0.01	<0.01	<0.01
	Total PAH 16	0.16 µg/l	U	<0.64 _o	<0.64 _o	<0.16	<0.16	<0.16
PHEHPLCUV	Phenol	0.05 mg/l	U	<0.05	<0.05	<0.05	<0.05	<0.05
	Methylphenols	0.05 mg/l	U	<0.05	<0.05	<0.05	<0.05	<0.05
	Dimethylphenols	0.05 mg/l	U	<0.05	<0.05	<0.05	<0.05	<0.05
	Trimethylphenols	0.05 mg/l	U	<0.05	<0.05	<0.05	<0.05	<0.05
	Total Phenols	0.2 mg/l	U	<0.20	<0.20	<0.20	<0.20	<0.20
SVOCSW	1,2,4-Trichlorobenzene	0.005 mg/l	N	<0.005	<0.005	<0.005	<0.005	<0.005
	1,2-Dichlorobenzene	0.005 mg/l	N	<0.005	<0.005	<0.005	<0.005	<0.005
	1,3-Dichlorobenzene	0.005 mg/l	N	<0.005	<0.005	<0.005	<0.005	<0.005
	1,4-Dichlorobenzene	0.005 mg/l	N	<0.005	<0.005	<0.005	<0.005	<0.005
	1-Methylnaphthalene	0.002 mg/l	N	<0.002	<0.002	<0.002	<0.002	<0.002
	2,4,5-Trichlorophenol	0.02 mg/l	N	<0.020	<0.020	<0.020	<0.020	<0.020
	2,4,6-Trichlorophenol	0.02 mg/l	N	<0.020	<0.020	<0.020	<0.020	<0.020
	2,4-Dichlorophenol	0.02 mg/l	N	<0.020	<0.020	<0.020	<0.020	<0.020
	2,4-Dimethylphenol	0.02 mg/l	N	<0.020	<0.020	<0.020	<0.020	<0.020
	2,4-Dinitrophenol	0.01 mg/l	N	<0.010	<0.010	<0.010	<0.010	<0.010
	2,4-Dinitrotoluene	0.005 mg/l	N	<0.005	<0.005	<0.005	<0.005	<0.005

Analysis Results

SOCOTEC Sample ID:	24032970-001	24032970-002	24032970-003	24032970-004	24032970-005
Sampling Date:	20/03/2024 15:30	20/03/2024 13:05	20/03/2024 10:35	20/03/2024 10:10	20/03/2024 10:25
Customer ID:	VC-12	VC-15	VC-16	VC-14	VC-26

Method Code	Analysis	MDL	Accred.	VC-12	VC-15	VC-16	VC-14	VC-26
SVOCSW	2,6-Dinitrotoluene	0.005 mg/l	N	<0.005	<0.005	<0.005	<0.005	<0.005
	2-Chloronaphthalene	0.002 mg/l	N	<0.002	<0.002	<0.002	<0.002	<0.002
	2-Chlorophenol	0.02 mg/l	N	<0.020	<0.020	<0.020	<0.020	<0.020
	2-Methylnaphthalene	0.002 mg/l	N	<0.002	<0.002	<0.002	<0.002	<0.002
	2-Methylphenol	0.005 mg/l	N	<0.005	<0.005	<0.005	<0.005	<0.005
	2-Nitroaniline	0.005 mg/l	N	<0.005	<0.005	<0.005	<0.005	<0.005
	2-Nitrophenol	0.02 mg/l	N	<0.020	<0.020	<0.020	<0.020	<0.020
	3- & 4-Methylphenol	0.02 mg/l	N	<0.020	<0.020	<0.020	<0.020	<0.020
	3-Nitroaniline	0.005 mg/l	N	<0.005	<0.005	<0.005	<0.005	<0.005
	4,6-Dinitro-2-methylphenol	0.05 mg/l	N	<0.050	<0.050	<0.050	<0.050	<0.050
	4-Bromophenyl-phenylether	0.005 mg/l	N	<0.005	<0.005	<0.005	<0.005	<0.005
	4-Chloro-3-methylphenol	0.005 mg/l	N	<0.005	<0.005	<0.005	<0.005	<0.005
	4-Chloroaniline	0.005 mg/l	N	<0.005	<0.005	<0.005	<0.005	<0.005
	4-Chlorophenol	0.02 mg/l	N	<0.020	<0.020	<0.020	<0.020	<0.020
	4-Chlorophenyl-phenylether	0.005 mg/l	N	<0.005	<0.005	<0.005	<0.005	<0.005
	4-Nitroaniline	0.005 mg/l	N	<0.005	<0.005	<0.005	<0.005	<0.005
	4-Nitrophenol	0.05 mg/l	N	<0.050	<0.050	<0.050	<0.050	<0.050
	Acenaphthene	0.002 mg/l	N	<0.002	<0.002	<0.002	<0.002	<0.002
	Acenaphthylene	0.002 mg/l	N	<0.002	<0.002	<0.002	<0.002	<0.002
	Anthracene	0.002 mg/l	N	<0.002	<0.002	<0.002	<0.002	<0.002
	Azobenzene	0.01 mg/l	N	<0.010	<0.010	<0.010	<0.010	<0.010
	Benzo[a]anthracene	0.002 mg/l	N	<0.002	<0.002	<0.002	<0.002	<0.002
	Benzo[a]pyrene	0.002 mg/l	N	<0.002	<0.002	<0.002	<0.002	<0.002
	Benzo[b]fluoranthene	0.002 mg/l	N	<0.002	<0.002	<0.002	<0.002	<0.002
	Benzo[g,h,i]perylene	0.002 mg/l	N	<0.002	<0.002	<0.002	<0.002	<0.002
	Benzo[k]fluoranthene	0.002 mg/l	N	<0.002	<0.002	<0.002	<0.002	<0.002
	Benzoic Acid	0.1 mg/l	N	<0.100	<0.100	<0.100	<0.100	<0.100
	Benzyl alcohol	0.005 mg/l	N	<0.005	<0.005	<0.005	<0.005	<0.005
	Biphenyl	0.002 mg/l	N	<0.002	<0.002	<0.002	<0.002	<0.002
	bis(2-Chloroethoxy)methane	0.005 mg/l	N	<0.005	<0.005	<0.005	<0.005	<0.005
	bis(2-Chloroethyl)ether	0.005 mg/l	N	<0.005	<0.005	<0.005	<0.005	<0.005
	bis(2-Chloroisopropyl)ether	0.005 mg/l	N	<0.005	<0.005	<0.005	<0.005	<0.005
	bis(2-Ethylhexyl)phthalate	0.005 mg/l	N	<0.005	<0.005	<0.005	<0.005	<0.005
	Butylbenzylphthalate	0.005 mg/l	N	<0.005	<0.005	<0.005	<0.005	<0.005
	Carbazole	0.01 mg/l	N	<0.010	<0.010	<0.010	<0.010	<0.010
	Chrysene	0.002 mg/l	N	<0.002	<0.002	<0.002	<0.002	<0.002
	Coronene	0.05 mg/l	N	<0.050	<0.050	<0.050	<0.050	<0.050
	Dibenzo[a,h]anthracene	0.002 mg/l	N	<0.002	<0.002	<0.002	<0.002	<0.002
	Dibenzofuran	0.005 mg/l	N	<0.005	<0.005	<0.005	<0.005	<0.005
	Diethylphthalate	0.005 mg/l	N	<0.005	<0.005	<0.005	<0.005	<0.005
	Dimethylphthalate	0.005 mg/l	N	<0.005	<0.005	<0.005	<0.005	<0.005
	Di-n-butylphthalate	0.005 mg/l	N	<0.005	<0.005	<0.005	<0.005	<0.005
	Di-n-octylphthalate	0.002 mg/l	N	<0.002	<0.002	<0.002	<0.002	<0.002
	Diphenyl ether	0.002 mg/l	N	<0.002	<0.002	<0.002	<0.002	<0.002
	Fluoranthene	0.002 mg/l	N	<0.002	<0.002	<0.002	<0.002	<0.002
	Fluorene	0.002 mg/l	N	<0.002	<0.002	<0.002	<0.002	<0.002
	Hexachlorobenzene	0.005 mg/l	N	<0.005	<0.005	<0.005	<0.005	<0.005
	Hexachlorobutadiene	0.005 mg/l	N	<0.005	<0.005	<0.005	<0.005	<0.005
	Hexachlorocyclopentadiene	0.005 mg/l	N	<0.005	<0.005	<0.005	<0.005	<0.005
	Hexachloroethane	0.005 mg/l	N	<0.005	<0.005	<0.005	<0.005	<0.005
	Indeno[1,2,3-cd]pyrene	0.002 mg/l	N	<0.002	<0.002	<0.002	<0.002	<0.002
	Isophorone	0.005 mg/l	N	<0.005	<0.005	<0.005	<0.005	<0.005
	Naphthalene	0.002 mg/l	N	<0.002	<0.002	<0.002	<0.002	<0.002
	Nitrobenzene	0.005 mg/l	N	<0.005	<0.005	<0.005	<0.005	<0.005
	N-Nitroso-di-n-propylamine	0.005 mg/l	N	<0.005	<0.005	<0.005	<0.005	<0.005
	N-Nitrosodiphenylamine	0.005 mg/l	N	<0.005	<0.005	<0.005	<0.005	<0.005
	Pentachlorophenol	0.05 mg/l	N	<0.050	<0.050	<0.050	<0.050	<0.050
	Phenanthrene	0.002 mg/l	N	<0.002	<0.002	<0.002	<0.002	<0.002
	Phenol	0.02 mg/l	N	<0.020	<0.020	<0.020	<0.020	<0.020
	Pyrene	0.002 mg/l	N	<0.002	<0.002	<0.002	<0.002	<0.002
VOCHSAW	1,1,1,2-Tetrachloroethane	1 µg/l	U	<1	<1	<1	<1	<1
	1,1,1-Trichloroethane	1 µg/l	U	<1	<1	<1	<1	<1
	1,1,1,2,2-Tetrachloroethane	1 µg/l	N	<1	<1	<1	<1	<1
	1,1,2-Trichloroethane	1 µg/l	U	<1	<1	<1	<1	<1
	1,1-Dichloroethane	1 µg/l	U	<1	<1	<1	<1	<1
	1,1-Dichloroethene	1 µg/l	U	<1	<1	<1	<1	<1
	1,1-Dichloropropene	1 µg/l	U	<1	<1	<1	<1	<1
	1,2,3-Trichlorobenzene	5 µg/l	U	<5	<5	<5	<5	<5
	1,2,3-Trichloropropane	1 µg/l	U	<1	<1	<1	<1	<1
	1,2,4-Trichlorobenzene	5 µg/l	U	<5	<5	<5	<5	<5
	1,2,4-Trimethylbenzene	1 µg/l	U	<1	<1	<1	<1	<1
	1,2-Dibromo-3-chloropropane	5 µg/l	U	<5	<5	<5	<5	<5
	1,2-Dibromoethane	1 µg/l	U	<1	<1	<1	<1	<1
	1,2-Dichlorobenzene	5 µg/l	U	<5	<5	<5	<5	<5
	1,2-Dichloroethane	1 µg/l	U	<1	<1	<1	<1	<1
	1,2-Dichloropropane	1 µg/l	U	<1	<1	<1	<1	<1
	1,3,5-Trimethylbenzene	0.6 µg/l	U	<0.6	<0.6	<0.6	<0.6	<0.6
	1,3-Dichlorobenzene	1 µg/l	U	<1	<1	<1	<1	<1
	1,3-Dichloropropane	1 µg/l	N	<1	<1	<1	<1	<1
	1,4-Dichlorobenzene	1 µg/l	U	<1	<1	<1	<1	<1
	2,2-Dichloropropane	1 µg/l	N	<1	<1	<1	<1	<1
	2-Chlorotoluene	1 µg/l	U	<1	<1	<1	<1	<1

Analysis Results

SOCOTEC Sample ID:				24032970-001	24032970-002	24032970-003	24032970-004	24032970-005
Sampling Date:				20/03/2024 15:30	20/03/2024 13:05	20/03/2024 10:35	20/03/2024 10:10	20/03/2024 10:25
Customer ID:				VC-12	VC-15	VC-16	VC-14	VC-26
Method Code	Analysis	MDL	Accred.					
VOCHSAW	4-Chlorotoluene	1 µg/l	U	<1	<1	<1	<1	<1
	Benzene	1 µg/l	U	<1	<1	<1	<1	<1
	Bromobenzene	1 µg/l	U	<1	<1	<1	<1	<1
	Bromochloromethane	1 µg/l	U	<1	<1	<1	<1	<1
	Bromodichloromethane	1 µg/l	U	<1	<1	<1	<1	<1
	Bromoform	1 µg/l	U	<1	<1	<1	<1	<1
	Bromomethane	5 µg/l	N	<5	<5	<5	<5	<5
	Carbon Tetrachloride	1 µg/l	U	<1	<1	<1	<1	<1
	Chlorobenzene	1 µg/l	U	<1	<1	<1	<1	<1
	Chloroethane	5 µg/l	U	<5	<5	<5	<5	<5
	Chloroform	5 µg/l	U	<5	<5	<5	<5	<5
	Chloromethane	1 µg/l	U	<1	<1	<1	<1	<1
	cis 1,2-Dichloroethene	1 µg/l	U	<1	<1	<1	<1	<1
	cis 1,3-Dichloropropene	1 µg/l	N	<1	<1	<1	<1	<1
	Dibromochloromethane	1 µg/l	U	<1	<1	<1	<1	<1
	Dibromomethane	1 µg/l	U	<1	<1	<1	<1	<1
	Dichlorodifluoromethane	1 µg/l	N	<1	<1	<1	<1	<1
	Ethylbenzene	0.5 µg/l	U	<0.5	<0.5	<0.5	<0.5	<0.5
	Hexachlorobutadiene	5 µg/l	U	<5	<5	<5	<5	<5
	iso-Propylbenzene	1 µg/l	U	<1	<1	<1	<1	<1
	m and p-Xylene	1 µg/l	U	<1	<1	<1	<1	<1
	MTBE	1 µg/l	N	<1	<1	<1	<1	<1
	Naphthalene	5 µg/l	U	<5	<5	<5	<5	<5
	n-Butylbenzene	1 µg/l	U	<1	<1	<1	<1	<1
	o-Xylene	1 µg/l	U	<1	<1	<1	<1	<1
	p-Isopropyltoluene	1 µg/l	U	<1	<1	<1	<1	<1
	Propylbenzene	1 µg/l	U	<1	<1	<1	<1	<1
	sec-Butylbenzene	1 µg/l	U	<1	<1	<1	<1	<1
	Styrene	1 µg/l	U	<1	<1	<1	<1	<1
	tert-Butylbenzene	1 µg/l	U	<1	<1	<1	<1	<1
	Tetrachloroethene	5 µg/l	U	<5	<5	<5	<5	<5
	Toluene	1 µg/l	U	<1	<1	<1	<1	<1
	trans 1,2-Dichloroethene	1 µg/l	U	<1	<1	<1	<1	<1
	trans 1,3-Dichloropropene	1 µg/l	U	<1	<1	<1	<1	<1
	Trichloroethene	5 µg/l	U	<5	<5	<5	<5	<5
	Trichlorofluoromethane	1 µg/l	U	<1	<1	<1	<1	<1
	Vinyl Chloride	1 µg/l	U	<1* _a	<1* _a	<1* _a	<1* _a	<1* _a
OGSNMS	Dibutyltin as Sn	20 ng Sn/l	N	<20	<20	<20	<20	<20
	Tributyltin as Sn	20 ng Sn/l	N	<20	<20	<20	<20	<20
	Triphenyltin as Sn	50 ng Sn/l	N	<50	<50	<50	<50	<50

Analysis Results

SOCOTEC Sample ID: 24032970-006
Sampling Date: 19/03/2024 00:00
Customer ID: VC-09-0-ES-0.0-5.6

Method Code	Analysis	MDL	Accred.	
CLANDPREP	Total Moisture at 35°C	0.1 %	N	36.7
	Major Constituents	-	N	CLAY
	Minor Constituents	-	N	Gravel
	Miscellaneous Constituents	-	N	n/a
	Colour of Material	-	N	Brown/Grey
Leachate Prep CEN 10:1	Equivalent Weight of Dry Material (kg)	kg	N	0.090
	Fraction above 4mm (%)	%	N	0
	Fraction of non-crushable material (%)	%	N	0
	Volume of Water for 10:1 Leach (ltr)	l	N	0.853
	Weight of Sample Leached (kg)	kg	N	0.137
PHSOIL	pH (2.5:1 extraction)	1 pH units	M ^A	8.4
ANC	ANC	0.04 mol/kg	N ^A	4.96
LOI(%MM)	LOI @ 450°C	0.2 % m/m	N ^A	6.6
WSLM59	Total Organic Carbon	0.02 % m/m	U ^A	1.76
BTXHSA	Benzene (HS_1D_AR)	0.01 mg/kg	M ^A	<0.016
	Toluene (HS_1D_AR)	0.01 mg/kg	M ^A	<0.016
	Ethylbenzene (HS_1D_AR)	0.01 mg/kg	M ^A	<0.016
	m/p-Xylene (HS_1D_AR)	0.02 mg/kg	M ^A	<0.032
	o-Xylene (HS_1D_AR)	0.01 mg/kg	M ^A	<0.016
	Total BTEX (HS_1D_AR)	0.06 mg/kg	M ^A	<0.095
TPHFIDUS (Aliphatic)	Total TPH >C8-C40 (Aliphatic) (EH_CU_1D_AL)	20 mg/kg	U ^A	154
	>C10-C40 (Aliphatic) (EH_CU_1D_AL)	20 mg/kg	U ^A	154
PAHMSUS	Acenaphthene	0.08 mg/kg	M ^A	<0.13
	Acenaphthylene	0.08 mg/kg	U ^A	<0.13
	Anthracene	0.08 mg/kg	U ^A	<0.13
	Benzo[a]anthracene	0.08 mg/kg	M ^A	<0.13
	Benzo[a]pyrene	0.08 mg/kg	M ^A	<0.13
	Benzo[b]fluoranthene	0.08 mg/kg	M ^A	<0.13
	Benzo[g,h,i]perylene	0.08 mg/kg	M ^A	<0.13
	Benzo[k]fluoranthene	0.08 mg/kg	M ^A	<0.13
	Chrysene	0.08 mg/kg	M ^A	<0.13
	Coronene	0.08 mg/kg	N ^A	<0.13
	Dibenzo[a,h]anthracene	0.08 mg/kg	M ^A	<0.13
	Fluoranthene	0.08 mg/kg	M ^A	<0.13
	Fluorene	0.08 mg/kg	M ^A	<0.13
	Indeno[1,2,3-cd]pyrene	0.08 mg/kg	M ^A	<0.13
	Naphthalene	0.08 mg/kg	M ^A	<0.13
	Phenanthrene	0.08 mg/kg	M ^A	<0.13
	Pyrene	0.08 mg/kg	M ^A	<0.13
	Total PAH 16	1.28 mg/kg	U ^A	<2.02
	Total PAH 17	1.36 mg/kg	N ^A	<2.15
PCBECD	PCB 28	0.005 mg/kg	M ^A	<0.008
	PCB 52	0.005 mg/kg	M ^A	<0.008
	PCB 101	0.005 mg/kg	M ^A	<0.008
	PCB 118	0.005 mg/kg	M ^A	<0.008
	PCB 138	0.005 mg/kg	M ^A	<0.008
	PCB 153	0.005 mg/kg	M ^A	<0.008
	PCB 180	0.005 mg/kg	M ^A	<0.008
	Total PCB 7 Congeners	0.035 mg/kg	M ^A	<0.055
PHCONDW	pH	1 pH units	N	8.2
PHCONDW	Conductivity at 25°C	100 µS/cm	N	3360
PHCONDW	TDS as mg/kg	700 mg/kg	N	22400
	TDS as mg/l	70 mg/l	N	2280
TOCW	Leached Organic Carbon	0.4 mg/l	U	10.7
		2 mg/kg	N	105
KONENS	Chloride as Cl	1 mg/l	U	1030
		10 mg/kg	N	10100
ISEF	Fluoride as F	0.1 mg/l	U	0.3
		1 mg/kg	N	3
SFAP1	Phenol Index	0.05 mg/l	U	<0.05
		0.5 mg/kg	N	<0.5
ICPMSW (Dissolved)	Antimony as Sb	0.001 mg/l	U	0.007
		0.01 mg/kg	N	0.07
ICPMSW (Dissolved)	Arsenic as As	0.001 mg/l	U	0.009
		0.01 mg/kg	N	0.09
ICPWATVAR (Dissolved)	Barium as Ba	0.01 mg/l	U	<0.01
		0.1 mg/kg	N	<0.1
ICPMSW (Dissolved)	Cadmium as Cd	0.00002 mg/l	U	0.00003
		0.0002 mg/kg	N	0.0003
ICPMSW (Dissolved)	Total Chromium as Cr	0.001 mg/l	U	0.002
		0.01 mg/kg	N	0.02
ICPMSW (Dissolved)	Copper as Cu	0.001 mg/l	U	<0.001
		0.01 mg/kg	N	<0.01
ICPMSW (Dissolved)	Lead as Pb	0.001 mg/l	U	<0.001
		0.01 mg/kg	N	<0.01
ICPMSW (Dissolved)	Mercury as Hg	0.00003 mg/l	U	<0.00003
		0.0003 mg/kg	N	<0.0003
ICPMSW (Dissolved)	Molybdenum as Mo	0.001 mg/l	U	0.200
		0.01 mg/kg	N	1.96
ICPMSW (Dissolved)	Nickel as Ni	0.001 mg/l	U	0.002
		0.01 mg/kg	N	0.02
ICPMSW (Dissolved)	Selenium as Se	0.001 mg/l	U	0.002



Project Number: 24032970

Client: Geotechnical Engineering Limited
Date Issued: 05/04/2024
Project Name: 37977 - Falmouth Docks Development



Analysis Results

SOCOTEC Sample ID: 24032970-006
Sampling Date: 19/03/2024 00:00
Customer ID: VC-09-0-ES-0.0-5.6

Method Code	Analysis	MDL	Accred.	
ICPMSW (Dissolved)	Selenium as Se	0.01 mg/kg	N	0.02
ICPWATVAR (Dissolved)	Total Sulphur as SO4	3 mg/l	U	188
		30 mg/kg	N	1850
ICPMSW (Dissolved)	Zinc as Zn	0.002 mg/l	U	0.016
		0.02 mg/kg	N	0.16

10:1 Cumulative Amount Leached: ☐ 1st Stage Leachate Results: ☐

Client Name: Geotechnical Engineering Limited
 Lab Sample ID: 24032970-006
 Sample ID: VC-09-0-ES-0.0-5.6
 Site Name: 37977 - Falmouth Docks Development

Leachate Preparation Data

Weight of Sample (kg)	0.137	Moisture content @ 105°C (%)	34.5
Equivalent weight dried @ 105°C (kg)	0.090	Volume of Water required for 10:1 stage (l)	0.853
Fraction of sample above 4mm (%)	0	Fraction of non-crushable material (%)	0

Note: The >4mm fraction is crushed using a disc mill

Solid Sample Results

Method Code	Analysis	Result	Accred.	Landfill Waste Acceptance Criteria Limit Values		
				Inert Waste Landfill	Stable Non-Reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
WSLM59	Total Organic Carbon (% m/m)	1.76	U	3	5	6
LOI(%MM)	Loss on Ignition (% m/m)	6.6	N			10
BTEXHSA	Sum of BTEX (mg/kg) (HS_1D_AR)	<0.095	M	6		
PCBECD	Sum of 7 Congener PCBs (mg/kg)	<0.055	M	1		
TPHFIDUS (Aliphatic)	>C10-C40 Aliphatic (mg/kg) (EH_CU_1D_AL)	154	U	500		
PAHMSUS	Sum of 17 PAHs (mg/kg)	<2.15	N	100		
PHSOIL	pH (pH units)	8.4	M		>6	
ANC	Acid Neutralisation Capacity (mol/kg)	4.96	N		To be evaluated	To be evaluated

10:1 Cumulative Leachate Results

Method Code	Analysis	Result	Accred.	Landfill Waste Acceptance Criteria Limit Values		
				Inert Waste Landfill	Stable Non-Reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
PHCONDW	pH (pH units)	8.2	N			
PHCONDW	Conductivity (µS/cm)	3360	N			
ICPMSW (Dissolved)	Antimony (mg/kg)	0.07	N	0.06	0.7	5
ICPMSW (Dissolved)	Arsenic (mg/kg)	0.09	N	0.5	2	25
ICPWATVAR (Dissolv	Barium (mg/kg)	<0.1	N	20	100	300
ICPMSW (Dissolved)	Cadmium (mg/kg)	0.0003	N	0.04	1	5
ICPMSW (Dissolved)	Chromium (mg/kg)	0.02	N	0.5	10	70
ICPMSW (Dissolved)	Copper (mg/kg)	<0.01	N	2	50	100
ICPMSW (Dissolved)	Lead (mg/kg)	<0.01	N	0.5	10	50
ICPMSW (Dissolved)	Mercury (mg/kg)	<0.0003	N	0.01	0.2	2
ICPMSW (Dissolved)	Molybdenum (mg/kg)	1.96	N	0.5	10	30
ICPMSW (Dissolved)	Nickel (mg/kg)	0.02	N	0.4	10	40
ICPMSW (Dissolved)	Selenium (mg/kg)	0.02	N	0.1	0.5	7
ICPMSW (Dissolved)	Zinc (mg/kg)	0.16	N	4	50	200
KONENS	Chloride (mg/kg)	10100	N	800	15000	25000
ISEF	Fluoride (mg/kg)	3	N	10	150	500
ICPWATVAR (Dissolv	Sulphate as SO4 (mg/kg)	1850	N	1000	20000	50000
PHCONDW	Total Dissolved Solids (mg/kg)	22400	N	4000	60000	100000
SFAPI	Phenol Index (mg/kg)	<0.5	N	1		
TOCW	Dissolved Organic Carbon (mg/kg)	105	N	500	800	1000

Accreditation status of M denotes MCERT, U denotes UKAS, N denotes no accreditation for the specific result

Landfill Waste Acceptance Criteria limit values are taken from 2003/33/EC: Council Decision and are correct as of 8th January 2024

Conductivity and pH results are reported from the leached sample, not calculated into the cumulative solid sample

Deviating Sample Report

			Incorrect Container	Incorrect Label	Headspace	Incorrect/No Preservative	No Sampling Date	Holding Time
<u>Sample Reference</u>	<u>Text ID</u>	<u>Method Code</u>						
VC-12	24032970-001	WSLM20						✓
VC-15	24032970-002	WSLM20						✓
VC-16	24032970-003	WSLM20						✓
VC-14	24032970-004	WSLM20						✓
VC-26	24032970-005	WSLM20						✓
VC-09-0-ES-0.0-5.6	24032970-006	BTEXHSA						✓

Analysis Method

Method Code

[illegible]

Method Description

ANC: Acid Neutralisation Capacity (mol/kg)
 BTEX by GCFID
 BTEX for WAC by GCFID
 Chromium III (Trivalent) (Calc)
 CLand Prep and Dry Weight Correction to 35°C
 Solid Material Description
 GRO CWG (C5-C10) Ali/Aro Split
 Arsenic (Diss.) in Saline Water by ICPMS
 Cadmium (Diss.) in Saline Water by ICPMS
 Copper (Diss.) in Saline Water by ICPMS
 Lead (Diss.) in Saline Water by ICPMS
 Mercury (Diss.) in Saline Water by ICPMS
 Nickel (Diss.) in Saline Water by ICPMS
 Selenium (Diss.) in Saline Water by ICPMS
 Vanadium (Diss.) in Saline Water by ICPMS
 Zinc (Diss.) in Saline Water by ICPMS
 Antimony (Diss.) in Lab Leachate by ICPMS
 Antimony in Solids (BSEN 12457-2)
 Arsenic (Diss.) in Lab Leachate by ICPMS
 Arsenic in Solids (BSEN 12457-2)
 Cadmium (Diss.) in Lab Leachate by ICPMS
 Cadmium in Solids (BSEN 12457-2)
 Chromium (Diss.) in Lab Leachate by ICPMS
 Chromium (Diss.) in Water by ICPMS
 Chromium in Solids (BSEN 12457-2)
 Copper (Diss.) in Lab Leachate by ICPMS
 Copper in Solids (BSEN 12457-2)
 Lead (Diss.) in Lab Leachate by ICPMS
 Lead in Solids (BSEN 12457-2)
 Mercury (Diss.) in Lab Leachate by ICPMS
 Mercury in Solids (BSEN 12457-2)
 Molybdenum (Diss.) in Lab Leachate by ICPMS
 Molybdenum in Solids (BSEN 12457-2)
 Nickel (Diss.) in Lab Leachate by ICPMS

Analysis Method

[illegible]



Project Number: 24032970

Client: Geotechnical Engineering Limited
Date Issued: 05/04/2024
Project Name: 37977 - Falmouth Docks Development

ICPMSW (Dissolved)	Nickel in Solids (BSEN 12457-2)	Filtered
ICPMSW (Dissolved)	Selenium (Diss.) in Lab Leachate by ICPMS	Filtered
ICPMSW (Dissolved)	Selenium in Solids (BSEN 12457-2)	Filtered
ICPMSW (Dissolved)	Zinc (Diss.) in Lab Leachate by ICPMS	Filtered
ICPMSW (Dissolved)	Zinc in Solids (BSEN 12457-2)	Filtered
ICPWATVAR (Dissolved)	Barium (Diss.) in Lab Leachate by ICPOES	Filtered
ICPWATVAR (Dissolved)	Barium in Solids (BSEN 12457-2)	Filtered
ICPWATVAR (Dissolved)	Beryllium (Diss.) in Saline Water by ICPOES	Filtered
ICPWATVAR (Dissolved)	Boron (Diss.) in Saline Water by ICPOES	Filtered
ICPWATVAR (Dissolved)	Total Hardness as CaCO ₃ in Saline Water	Filtered
ICPWATVAR (Dissolved)	Total Sulphur as SO ₄ (Diss.) in Lab Leachate	Filtered
ICPWATVAR (Dissolved)	Total Sulphur as SO ₄ (Diss.) in Saline Water	Filtered
ICPWATVAR (Dissolved)	Total Sulphur as SO ₄ in Solids (BSEN 12457-2)	Filtered
ISEF	Fluoride by ISE	Filtered
ISEF	Fluoride in Solids (BSEN 12457-2)	Filtered
KONENS	Ammoniacal Nitrogen as N	Filtered
KONENS	Chloride by Colorimetry	Filtered
KONENS	Chloride in Solids (BSEN 12457-2)	Filtered
KONENS	Chromium VI (Hexavalent) by Colorimetry	Filtered
Leachate Prep CEN 10:1	WAC Leachate Prep, 1-Stage 10:1 (BSEN 12457-2)	As Received
LOI(%MM)	LOI: Loss on Ignition @ 450°C	Air Dried & Ground
OGSNMS	Organotins Suite (DBT, TBT, TPhT)	Unfiltered
PAHMSUS	17 PAHs (inc. Coronene) for WAC by GCMS	As Received
PAHMSW	16 PAHs by GCMS	Unfiltered
PCBECD	PCBs, ICES 7 Congeners inc. Total Calculation	As Received
PHCONDW	Electrical Conductivity @ 25°C	Filtered
PHCONDW	pH	Filtered
PHCONDW	TDS: Total Dissolved Solids (Calc)	Filtered
PHCONDW	Total Dissolved Solids in Solids (BSEN 12457-2)	Filtered
PHEHPLCUV	Phenols Suite by HPLC UV	Unfiltered
PHSOIL	pH (2.5:1)	As Received
SFAPI	Cyanide (Total) by SFA	Unfiltered
SFAPI	Phenol Index (Total) by SFA	Filtered
SFAPI	Phenol Index in Solids (BSEN 12457-2)	Filtered
SVOCSW	SVOCs (Target List) by GCMS	Unfiltered
TOCW	DOC: Dissolved Organic Carbon	Filtered
TOCW	Leached Organic Carbon in Solids (BSEN 12457-2)	Filtered
TOCW	LOC: Leached Organic Carbon	Filtered
TOCW	TOC: Total Organic Carbon	Unfiltered
TPHFID (Aliphatic)	TPH (CWG) Aliphatic Split with Carbon Banding	Unfiltered
TPHFID (Aromatic)	TPH (CWG) Aromatic Split with Carbon Banding	Unfiltered
TPHFIDUS (Aliphatic)	TPH (>C8-C40) Aliphatic and Carbon Band (>C 10-C40)	As Received
VOCHSAW	VOCs (Target List) by GCMS	Unfiltered
WSLM10	TSS: Total Suspended Solids	Unfiltered
WSLM12	Total Alkalinity as CaCO ₃	Unfiltered
WSLM20	BOD: Biological Oxygen Demand (Total)	Unfiltered
WSLM27	TDS: Total Dissolved Solids	Filtered
WSLM59	TOC: Total Organic Carbon	Air Dried & Ground



Project Number: [24032970](#)

Client: Geotechnical Engineering Limited

Date Issued: 05/04/2024

Project Name: 37977 - Falmouth Docks Development

[Result Report Notes](#)

Letters alongside results signify that the result has associated report notes.

The report notes are as follows:

Letter	Note
A	Due to the matrix of the sample the laboratory has had to deviate from our standard protocols to be able to process the sample and provide a result. Where applicable the accreditation has been removed and this should be taken into consideration when utilising the data.
B	The QC associated with this result has not wholly met the QMS requirements, the accreditation has therefore been removed. However, the Laboratory has confidence in the performance of the method as a whole and that the integrity of the data has not been significantly compromised.
C	Due to matrix interference, the internal standard and/or surrogate has not met the QMS requirements. This should be taken into consideration when utilising the data.
D	A non-standard volume or mass has been used for this test which has resulted in a raised detection limit.
E	Due to the parameter value being beyond our calibration range (and following the maximum size of dilution allowed, where applicable), the result cannot be quantified and as such the result will appear as a greater than symbol (>) with the accreditation removed. This data should be used for indicative purposes only.
F	Based on the sample history, appearance and smell a dilution was applied prior to testing. Unfortunately, the result is either above (>) or below (<) our calibration range. Results above our calibration range have accreditation removed. The data should be used for indicative purposes only.
G	The day 5 oxygen reading was below the capability of the instrument to detect, and therefore the calculated BOD has been reported unaccredited for guidance purposes only.

[HWOL Acronym Key](#)

Acronym	Description
HS	Headspace Analysis
EH	Extractable Hydrocarbons - i.e everything extracted by the solvent(s)
CU	Clean up - e.g. by florisil, silica gel
1D	GC - Single coil gas chromatography
Total	Aliphatics & Aromatics
AL	Aliphatics only
AR	Aromatics only
+	Operator to indicate cumulative e.g. EH_CU+HS_1D_Total

[SVOCSW - N-Nitrosodiphenylamine](#)

N-Nitrosodiphenylamine decomposes in the GC inlet and cannot be separated from diphenylamine. For this reason we will report a combined result for N-Nitrosodiphenylamine and Diphenylamine.



Project Number: [24032970](#)

Client: Geotechnical Engineering Limited

Date Issued: 05/04/2024

Project Name: 37977 - Falmouth Docks Development

Additional Information

This report refers to samples as received. SOCOTEC UK Ltd takes no responsibility for accuracy or competence of sampling by others.

Results within this report relate only to the samples tested.

The accreditation codes are as follows:

U = UKAS accredited analysis
M = MCERT accredited analysis
N = Unaccredited analysis

Any accreditation marked with ^ signify results are reported on a dry weight basis of 35 ° c.

All Air Dried and Ground Samples (ADG) are oven dried at less than 35 ° c.

This report shall not be reproduced except in full, without written approval of the laboratory.

Opinions and interpretations given are outside the scope of our UKAS accreditation.

Any results marked with * are not covered by our scope of UKAS accreditation. If applicable, further report notes have been added.

Any solid samples where the Major Constituents are not one of the following (Sand, Silt, Clay, Made Ground) are not one of our accredited matrix types.

Any samples marked with a tick in the deviant table is deviant for the specific reason.

Any samples reported as IS, NA, ND mean the following:

IS = Insufficient Sample to complete analysis
NA = Sample is not amenable for the required analysis
ND = Results cannot be determined

Items listed with a 'SUB' method code prefix have been carried out by another SOCOTEC department or by an external subcontracted laboratory.

Our deviating sample report does not include deviancy information for Subcontracted analysis. Please see the report from the subcontracted lab for information regarding any deviancies for this analysis.

Summaries of analysis methods are available upon request.

End of Certificate of Analysis

Certificate of Analysis

Client: Geotechnical Engineering Limited

Project: 24033090

Quote: BEC240334421 V1.2

Project Ref: 37977

Site: Falmouth Docks Development

Contact: Mark Jones

Address: Centurion House,
Olympus Park, Quedgeley
Gloucester
GL2 4NF

E-Mail: mark.jones@geoeng.co.uk

Phone: 07748 775522

No. Samples Received: 3

Date Received: 23/03/2024

Analysis Completed: 15/04/2024

Date Issued: 15/04/2024

Report Type: Version 01

This report supersedes any versions previously issued by the laboratory



Reported by Customer Service Co-Ordinator
Julie Dickinson
01283 554496
Julie.Dickinson@socotec.co.uk

**Project Number: 24033090**

Client: Geotechnical Engineering Limited
Date Issued: 15/04/2024
Project Name: 37977 - Falmouth Docks Development

Samples Analysed

<u>Text ID</u>	<u>Sample Reference</u>	<u>Sampling Date</u>	<u>Sample Type</u>	<u>Sample Description</u>
24033090-001	VC-07-1-ES-0.00-1.30	20/03/2024 00:00:00	SOLID	Clay Sample
24033090-002	VC-024-1-ES-0.00-2.10	21/03/2024 00:00:00	SOLID	Clay Sample
24033090-003	VC-03-1-ES-0.00-3.10	22/03/2024 00:00:00	SOLID	Clay Sample

Analysis Results

SOCOTEC Sample ID:				24033090-001	24033090-002	24033090-003
Sampling Date:				20/03/2024 00:00	21/03/2024 00:00	22/03/2024 00:00
Customer ID:				VC-07-1-ES-0.00-1.3	VC-024-1-ES-0.00-2.	VC-03-1-ES-0.00-3.1
Method Code	Analysis	MDL	Accred.	0	10	0
CLANDPREP	Total Moisture at 35°C	0.1 %	N	19.9	23.0	41.7
	Major Constituents	-	N	CLAY	CLAY	CLAY
	Minor Constituents	-	N	Gravel	Gravel	Gravel
	Miscellaneous Constituents	-	N	n/a	n/a	n/a
	Colour of Material	-	N	Grey	Brown	Black
Leachate Prep CEN 10:1	Equivalent Weight of Dry Material (kg)	kg	N	0.090	0.090	0.090
	Fraction above 4mm (%)	%	N	0	0	0
	Fraction of non-crushable material (%)	%	N	0	0	0
	Volume of Water for 10:1 Leach (ltr)	l	N	0.883	0.869	0.854
	Weight of Sample Leached (kg)	kg	N	0.107	0.121	0.136
PHSOIL	pH (2.5:1 extraction)	1 pH units	M ^A	8.5	7.9	8.3
ANC	ANC	0.04 mol/kg	N ^A	2.05	<0.04	2.64
LOI(%MM)	LOI @ 450°C	0.2 % m/m	N ^A	3.4	2.9	9.0
WSLM59	Total Organic Carbon	0.02 % m/m	U ^A	0.79	0.24	2.94
BTEXHSA	Benzene (HS_1D_AR)	0.01 mg/kg	M ^A	<0.013	<0.013	<0.017
	Toluene (HS_1D_AR)	0.01 mg/kg	M ^A	<0.013	<0.013	<0.017
	Ethylbenzene (HS_1D_AR)	0.01 mg/kg	M ^A	<0.013	<0.013	<0.017
	m/p-Xylene (HS_1D_AR)	0.02 mg/kg	M ^A	<0.025	<0.026	<0.034
	o-Xylene (HS_1D_AR)	0.01 mg/kg	M ^A	<0.013	<0.013	<0.017
	Total BTEX (HS_1D_AR)	0.06 mg/kg	M ^A	<0.075	<0.078	<0.103
TPHFIDUS (Aliphatic)	Total TPH >C8-C40 (Aliphatic) (EH_CU_1D_AL)	20 mg/kg	U ^A	168	<26.0	88.6
	>C10-C40 (Aliphatic) (EH_CU_1D_AL)	20 mg/kg	U ^A	168	<26.0	87.9
PAHMSUS	Acenaphthene	0.08 mg/kg	M ^A	0.14	<0.10	<0.14
	Acenaphthylene	0.08 mg/kg	U ^A	<0.10	<0.10	<0.14
	Anthracene	0.08 mg/kg	U ^A	0.46	<0.10	<0.14
	Benzo[a]anthracene	0.08 mg/kg	M ^A	1.25	<0.10	<0.14
	Benzo[a]pyrene	0.08 mg/kg	M ^A	1.70	<0.10	0.19
	Benzo[b]fluoranthene	0.08 mg/kg	M ^A	1.94	<0.10	0.22
	Benzo[g,h,i]perylene	0.08 mg/kg	M ^A	0.95	<0.10	0.15
	Benzo[k]fluoranthene	0.08 mg/kg	M ^A	0.86	<0.10	<0.14
	Chrysene	0.08 mg/kg	M ^A	1.19	<0.10	<0.14
	Coronene	0.08 mg/kg	N ^A	0.24	<0.10	<0.14
	Dibenzo[a,h]anthracene	0.08 mg/kg	M ^A	0.28	<0.10	<0.14
	Fluoranthene	0.08 mg/kg	M ^A	2.60	<0.10	0.20
	Fluorene	0.08 mg/kg	M ^A	0.21	<0.10	<0.14
	Indeno[1,2,3-cd]pyrene	0.08 mg/kg	M ^A	0.86	<0.10	0.17
	Naphthalene	0.08 mg/kg	M ^A	<0.10	<0.10	<0.14
	Phenanthrene	0.08 mg/kg	M ^A	1.73	<0.10	<0.14
	Pyrene	0.08 mg/kg	M ^A	2.99	<0.10	0.23
	Total PAH 16	1.28 mg/kg	U ^A	17.4	<1.66	2.53
	Total PAH 17	1.36 mg/kg	N ^A	17.6	<1.77	2.66
PCBECD	PCB 28	0.005 mg/kg	M ^A	<0.031	<0.006	<0.009
	PCB 52	0.005 mg/kg	M ^A	<0.031	<0.006	<0.009
	PCB 101	0.005 mg/kg	M ^A	<0.031	<0.006	<0.009
	PCB 118	0.005 mg/kg	M ^A	<0.031	<0.006	<0.009
	PCB 138	0.005 mg/kg	M ^A	<0.031	<0.006	<0.009
	PCB 153	0.005 mg/kg	M ^A	<0.031	<0.006	<0.009
	PCB 180	0.005 mg/kg	M ^A	<0.031	<0.006	<0.009
	Total PCB 7 Congeners	0.035 mg/kg	M ^A	<0.218	<0.046	<0.060
PHCONDW	pH	1 pH units	N	8.4	8.0	8.8
PHCONDW	Conductivity at 25°C	100 µS/cm	N	1700	2370	4090
PHCONDW	TDS as mg/kg	700 mg/kg	N	11500	16000	27300
	TDS as mg/l	70 mg/l	N	1150	1610	2780
TOCW	Leached Organic Carbon	0.4 mg/l	U	1.74	2.27	11.8
		2 mg/kg	N	17.3	22.5	116
KONENS	Chloride as Cl	1 mg/l	U	435	624	1230
		10 mg/kg	N	4340	6180	12100
ISEF	Fluoride as F	0.1 mg/l	U	1.2	1.5	0.7
		1 mg/kg	N	12	15	7
SFAP1	Phenol Index	0.05 mg/l	U	<0.05	<0.05	<0.05
		0.5 mg/kg	N	<0.5	<0.5	<0.5
ICPMSW (Dissolved)	Antimony as Sb	0.001 mg/l	U	0.114	<0.001	0.024
		0.01 mg/kg	N	1.14	<0.01	0.24
ICPMSW (Dissolved)	Arsenic as As	0.001 mg/l	U	0.003	<0.001	0.014
		0.01 mg/kg	N	0.03	<0.01	0.14
ICPWATVAR (Dissolved)	Barium as Ba	0.01 mg/l	U	<0.01	<0.01	0.03
		0.1 mg/kg	N	<0.1	<0.1	0.3
ICPMSW (Dissolved)	Cadmium as Cd	0.00002 mg/l	U	<0.00002	<0.00002	0.00003
		0.0002 mg/kg	N	<0.0002	<0.0002	0.0003
ICPMSW (Dissolved)	Total Chromium as Cr	0.001 mg/l	U	<0.001	<0.001	<0.001
		0.01 mg/kg	N	<0.01	<0.01	<0.01
ICPMSW (Dissolved)	Copper as Cu	0.001 mg/l	U	<0.001	<0.001	<0.001
		0.01 mg/kg	N	<0.01	<0.01	<0.01
ICPMSW (Dissolved)	Lead as Pb	0.001 mg/l	U	<0.001	<0.001	<0.001
		0.01 mg/kg	N	<0.01	<0.01	<0.01
ICPMSW (Dissolved)	Mercury as Hg	0.00003 mg/l	U	<0.00003	<0.00003	0.00004
		0.0003 mg/kg	N	<0.0003	<0.0003	0.0004
ICPMSW (Dissolved)	Molybdenum as Mo	0.001 mg/l	U	0.031	0.015	0.067
		0.01 mg/kg	N	0.31	0.15	0.66
ICPMSW (Dissolved)	Nickel as Ni	0.001 mg/l	U	<0.001	<0.001	<0.001
		0.01 mg/kg	N	<0.01	<0.01	<0.01
ICPMSW (Dissolved)	Selenium as Se	0.001 mg/l	U	<0.001	<0.001	<0.001



Project Number: 24033090

Client: Geotechnical Engineering Limited
Date Issued: 15/04/2024
Project Name: 37977 - Falmouth Docks Development



Analysis Results

		SOCOTEC Sample ID:		24033090-001	24033090-002	24033090-003
		Sampling Date:		20/03/2024 00:00	21/03/2024 00:00	22/03/2024 00:00
		Customer ID:		VC-07-1-ES-0.00-1.3	VC-024-1-ES-0.00-2.	VC-03-1-ES-0.00-3.1
		MDL		0	10	0
		Accred.		0	10	0
Method Code	Analysis	MDL	Accred.	0	10	0
ICPMSW (Dissolved)	Selenium as Se	0.01 mg/kg	N	<0.01	<0.01	<0.01
ICPWATVAR (Dissolved)	Total Sulphur as SO4	3 mg/l	U	109	116	38
		30 mg/kg	N	1090	1150	373
ICPMSW (Dissolved)	Zinc as Zn	0.002 mg/l	U	<0.002	<0.002	0.003
		0.02 mg/kg	N	<0.02	<0.02	0.03

10:1 Cumulative Amount Leached: ☐ 1st Stage Leachate Results: ☐

Client Name: Geotechnical Engineering Limited
 Lab Sample ID: 24033090-001
 Sample ID: VC-07-1-ES-0.00-1.30
 Site Name: 37977 - Falmouth Docks Development

Leachate Preparation Data

Weight of Sample (kg)	0.107	Moisture content @ 105°C (%)	15.9
Equivalent weight dried @ 105°C (kg)	0.090	Volume of Water required for 10:1 stage (l)	0.883
Fraction of sample above 4mm (%)	0	Fraction of non-crushable material (%)	0

Note: The >4mm fraction is crushed using a disc mill

Solid Sample Results

				Landfill Waste Acceptance Criteria Limit Values		
Method Code	Analysis	Result	Accred.	Inert Waste Landfill	Stable Non-Reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
WSLM59	Total Organic Carbon (% m/m)	0.79	U	3	5	6
LOI(%MM)	Loss on Ignition (% m/m)	3.4	N			10
BTEXHSA	Sum of BTEX (mg/kg) (HS_1D_AR)	<0.075	M	6		
PCBECD	Sum of 7 Congener PCBs (mg/kg)	<0.218	M	1		
TPHFIDUS (Aliphatic)	>C10-C40 Aliphatic (mg/kg) (EH_CU_1D_AL)	168	U	500		
PAHMSUS	Sum of 17 PAHs (mg/kg)	17.6	N	100		
PHSOIL	pH (pH units)	8.5	M		>6	
ANC	Acid Neutralisation Capacity (mol/kg)	2.05	N		To be evaluated	To be evaluated

10:1 Cumulative Leachate Results

				Landfill Waste Acceptance Criteria Limit Values		
Method Code	Analysis	Result	Accred.	Inert Waste Landfill	Stable Non-Reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
PHCONDW	pH (pH units)	8.4	N			
PHCONDW	Conductivity (µS/cm)	1700	N			
ICPMSW (Dissolved)	Antimony (mg/kg)	1.14	N	0.06	0.7	5
ICPMSW (Dissolved)	Arsenic (mg/kg)	0.03	N	0.5	2	25
ICPWATVAR (Dissolv	Barium (mg/kg)	<0.1	N	20	100	300
ICPMSW (Dissolved)	Cadmium (mg/kg)	<0.0002	N	0.04	1	5
ICPMSW (Dissolved)	Chromium (mg/kg)	<0.01	N	0.5	10	70
ICPMSW (Dissolved)	Copper (mg/kg)	<0.01	N	2	50	100
ICPMSW (Dissolved)	Lead (mg/kg)	<0.01	N	0.5	10	50
ICPMSW (Dissolved)	Mercury (mg/kg)	<0.0003	N	0.01	0.2	2
ICPMSW (Dissolved)	Molybdenum (mg/kg)	0.31	N	0.5	10	30
ICPMSW (Dissolved)	Nickel (mg/kg)	<0.01	N	0.4	10	40
ICPMSW (Dissolved)	Selenium (mg/kg)	<0.01	N	0.1	0.5	7
ICPMSW (Dissolved)	Zinc (mg/kg)	<0.02	N	4	50	200
KONENS	Chloride (mg/kg)	4340	N	800	15000	25000
ISEF	Fluoride (mg/kg)	12	N	10	150	500
ICPWATVAR (Dissolv	Sulphate as SO4 (mg/kg)	1090	N	1000	20000	50000
PHCONDW	Total Dissolved Solids (mg/kg)	11500	N	4000	60000	100000
SFAPI	Phenol Index (mg/kg)	<0.5	N	1		
TOCW	Dissolved Organic Carbon (mg/kg)	17.3	N	500	800	1000

Accreditation status of M denotes MCERT, U denotes UKAS, N denotes no accreditation for the specific result

Landfill Waste Acceptance Criteria limit values are taken from 2003/33/EC: Council Decision and are correct as of 8th January 2024

Conductivity and pH results are reported from the leached sample, not calculated into the cumulative solid sample

Client Name: Geotechnical Engineering Limited
 Lab Sample ID: 24033090-002
 Sample ID: VC-024-1-ES-0.00-2.10
 Site Name: 37977 - Falmouth Docks Development

Leachate Preparation Data

Weight of Sample (kg)	0.121	Moisture content @ 105°C (%)	25.3
Equivalent weight dried @ 105°C (kg)	0.090	Volume of Water required for 10:1 stage (l)	0.869
Fraction of sample above 4mm (%)	0	Fraction of non-crushable material (%)	0

Note: The >4mm fraction is crushed using a disc mill

Solid Sample Results

Method Code	Analysis	Result	Accred.	Landfill Waste Acceptance Criteria Limit Values		
				Inert Waste Landfill	Stable Non-Reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
WSLM59	Total Organic Carbon (% m/m)	0.24	U	3	5	6
LOI(%MM)	Loss on Ignition (% m/m)	2.9	N			10
BTEXHSA	Sum of BTEX (mg/kg) (HS_1D_AR)	<0.078	M	6		
PCBECD	Sum of 7 Congener PCBs (mg/kg)	<0.046	M	1		
TPHFIDUS (Aliphatic)	>C10-C40 Aliphatic (mg/kg) (EH_CU_1D_AL)	<26.0	U	500		
PAHMSUS	Sum of 17 PAHs (mg/kg)	<1.77	N	100		
PHSOIL	pH (pH units)	7.9	M		>6	
ANC	Acid Neutralisation Capacity (mol/kg)	<0.04	N		To be evaluated	To be evaluated

10:1 Cumulative Leachate Results

Method Code	Analysis	Result	Accred.	Landfill Waste Acceptance Criteria Limit Values		
				Inert Waste Landfill	Stable Non-Reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
PHCONDW	pH (pH units)	8.0	N			
PHCONDW	Conductivity (µS/cm)	2370	N			
ICPMSW (Dissolved)	Antimony (mg/kg)	<0.01	N	0.06	0.7	5
ICPMSW (Dissolved)	Arsenic (mg/kg)	<0.01	N	0.5	2	25
ICPWATVAR (Dissolv	Barium (mg/kg)	<0.1	N	20	100	300
ICPMSW (Dissolved)	Cadmium (mg/kg)	<0.0002	N	0.04	1	5
ICPMSW (Dissolved)	Chromium (mg/kg)	<0.01	N	0.5	10	70
ICPMSW (Dissolved)	Copper (mg/kg)	<0.01	N	2	50	100
ICPMSW (Dissolved)	Lead (mg/kg)	<0.01	N	0.5	10	50
ICPMSW (Dissolved)	Mercury (mg/kg)	<0.0003	N	0.01	0.2	2
ICPMSW (Dissolved)	Molybdenum (mg/kg)	0.15	N	0.5	10	30
ICPMSW (Dissolved)	Nickel (mg/kg)	<0.01	N	0.4	10	40
ICPMSW (Dissolved)	Selenium (mg/kg)	<0.01	N	0.1	0.5	7
ICPMSW (Dissolved)	Zinc (mg/kg)	<0.02	N	4	50	200
KONENS	Chloride (mg/kg)	6180	N	800	15000	25000
ISEF	Fluoride (mg/kg)	15	N	10	150	500
ICPWATVAR (Dissolv	Sulphate as SO4 (mg/kg)	1150	N	1000	20000	50000
PHCONDW	Total Dissolved Solids (mg/kg)	16000	N	4000	60000	100000
SFAPI	Phenol Index (mg/kg)	<0.5	N	1		
TOCW	Dissolved Organic Carbon (mg/kg)	22.5	N	500	800	1000

Accreditation status of M denotes MCERT, U denotes UKAS, N denotes no accreditation for the specific result

Landfill Waste Acceptance Criteria limit values are taken from 2003/33/EC: Council Decision and are correct as of 8th January 2024

Conductivity and pH results are reported from the leached sample, not calculated into the cumulative solid sample

Client Name: Geotechnical Engineering Limited
 Lab Sample ID: 24033090-003
 Sample ID: VC-03-1-ES-0.00-3.10
 Site Name: 37977 - Falmouth Docks Development

Leachate Preparation Data

Weight of Sample (kg)	0.136	Moisture content @ 105°C (%)	33.8
Equivalent weight dried @ 105°C (kg)	0.090	Volume of Water required for 10:1 stage (l)	0.854
Fraction of sample above 4mm (%)	0	Fraction of non-crushable material (%)	0

Note: The >4mm fraction is crushed using a disc mill

Solid Sample Results

				Landfill Waste Acceptance Criteria Limit Values		
Method Code	Analysis	Result	Accred.	Inert Waste Landfill	Stable Non-Reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
WSLM59	Total Organic Carbon (% m/m)	2.94	U	3	5	6
LOI(%MM)	Loss on Ignition (% m/m)	9.0	N			10
BTEXHSA	Sum of BTEX (mg/kg) (HS_1D_AR)	<0.103	M	6		
PCBECD	Sum of 7 Congener PCBs (mg/kg)	<0.060	M	1		
TPHFIDUS (Aliphatic)	>C10-C40 Aliphatic (mg/kg) (EH_CU_1D_AL)	87.9	U	500		
PAHMSUS	Sum of 17 PAHs (mg/kg)	2.66	N	100		
PHSOIL	pH (pH units)	8.3	M		>6	
ANC	Acid Neutralisation Capacity (mol/kg)	2.64	N		To be evaluated	To be evaluated

10:1 Cumulative Leachate Results

				Landfill Waste Acceptance Criteria Limit Values		
Method Code	Analysis	Result	Accred.	Inert Waste Landfill	Stable Non-Reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
PHCONDW	pH (pH units)	8.8	N			
PHCONDW	Conductivity (µS/cm)	4090	N			
ICPMSW (Dissolved)	Antimony (mg/kg)	0.24	N	0.06	0.7	5
ICPMSW (Dissolved)	Arsenic (mg/kg)	0.14	N	0.5	2	25
ICPWATVAR (Dissolv	Barium (mg/kg)	0.3	N	20	100	300
ICPMSW (Dissolved)	Cadmium (mg/kg)	0.0003	N	0.04	1	5
ICPMSW (Dissolved)	Chromium (mg/kg)	<0.01	N	0.5	10	70
ICPMSW (Dissolved)	Copper (mg/kg)	<0.01	N	2	50	100
ICPMSW (Dissolved)	Lead (mg/kg)	<0.01	N	0.5	10	50
ICPMSW (Dissolved)	Mercury (mg/kg)	0.0004	N	0.01	0.2	2
ICPMSW (Dissolved)	Molybdenum (mg/kg)	0.66	N	0.5	10	30
ICPMSW (Dissolved)	Nickel (mg/kg)	<0.01	N	0.4	10	40
ICPMSW (Dissolved)	Selenium (mg/kg)	<0.01	N	0.1	0.5	7
ICPMSW (Dissolved)	Zinc (mg/kg)	0.03	N	4	50	200
KONENS	Chloride (mg/kg)	12100	N	800	15000	25000
ISEF	Fluoride (mg/kg)	7	N	10	150	500
ICPWATVAR (Dissolv	Sulphate as SO4 (mg/kg)	373	N	1000	20000	50000
PHCONDW	Total Dissolved Solids (mg/kg)	27300	N	4000	60000	100000
SFAPI	Phenol Index (mg/kg)	<0.5	N	1		
TOCW	Dissolved Organic Carbon (mg/kg)	116	N	500	800	1000

Accreditation status of M denotes MCERT, U denotes UKAS, N denotes no accreditation for the specific result

Landfill Waste Acceptance Criteria limit values are taken from 2003/33/EC: Council Decision and are correct as of 8th January 2024

Conductivity and pH results are reported from the leached sample, not calculated into the cumulative solid sample

Deviating Sample Report

<u>Sample Reference</u>	<u>Text ID</u>	<u>Method Code</u>	Incorrect Container	Incorrect Label	Headspace	Incorrect/No Preservative	No Sampling Date	Holding Time
VC-07-1-ES-0.00-1.30	24033090-001	BTEXHSA						✓

Analysis Method

<u>Method Code</u>	<u>Method Description</u>	<u>Analysis Method</u>
ANC	ANC: Acid Neutralisation Capacity (mol/kg)	Air Dried & Ground
BTEXHSA	BTEX for WAC by GCFID	As Received
CLANDPREP	CLand Prep and Dry Weight Correction to 35°C	As Received
CLANDPREP	Solid Material Description	As Received
ICPSMW (Dissolved)	Antimony (Diss.) in Lab Leachate by ICPMS	Filtered
ICPSMW (Dissolved)	Antimony in Solids (BSEN 12457-2)	Filtered
ICPSMW (Dissolved)	Arsenic (Diss.) in Lab Leachate by ICPMS	Filtered
ICPSMW (Dissolved)	Arsenic in Solids (BSEN 12457-2)	Filtered
ICPSMW (Dissolved)	Cadmium (Diss.) in Lab Leachate by ICPMS	Filtered
ICPSMW (Dissolved)	Cadmium in Solids (BSEN 12457-2)	Filtered
ICPSMW (Dissolved)	Chromium (Diss.) in Lab Leachate by ICPMS	Filtered
ICPSMW (Dissolved)	Chromium in Solids (BSEN 12457-2)	Filtered
ICPSMW (Dissolved)	Copper (Diss.) in Lab Leachate by ICPMS	Filtered
ICPSMW (Dissolved)	Copper in Solids (BSEN 12457-2)	Filtered
ICPSMW (Dissolved)	Lead (Diss.) in Lab Leachate by ICPMS	Filtered
ICPSMW (Dissolved)	Lead in Solids (BSEN 12457-2)	Filtered
ICPSMW (Dissolved)	Mercury (Diss.) in Lab Leachate by ICPMS	Filtered
ICPSMW (Dissolved)	Mercury in Solids (BSEN 12457-2)	Filtered
ICPSMW (Dissolved)	Molybdenum (Diss.) in Lab Leachate by ICPMS	Filtered
ICPSMW (Dissolved)	Molybdenum in Solids (BSEN 12457-2)	Filtered
ICPSMW (Dissolved)	Nickel (Diss.) in Lab Leachate by ICPMS	Filtered
ICPSMW (Dissolved)	Nickel in Solids (BSEN 12457-2)	Filtered
ICPSMW (Dissolved)	Selenium (Diss.) in Lab Leachate by ICPMS	Filtered
ICPSMW (Dissolved)	Selenium in Solids (BSEN 12457-2)	Filtered
ICPSMW (Dissolved)	Zinc (Diss.) in Lab Leachate by ICPMS	Filtered
ICPSMW (Dissolved)	Zinc in Solids (BSEN 12457-2)	Filtered
ICPWATVAR (Dissolved)	Barium (Diss.) in Lab Leachate by ICPOES	Filtered
ICPWATVAR (Dissolved)	Barium in Solids (BSEN 12457-2)	Filtered
ICPWATVAR (Dissolved)	Total Sulphur as SO4 (Diss.) in Lab Leachate	Filtered
ICPWATVAR (Dissolved)	Total Sulphur as SO4 in Solids (BSEN 12457-2)	Filtered
ISEF	Fluoride by ISE	Filtered
ISEF	Fluoride in Solids (BSEN 12457-2)	Filtered
KONENS	Chloride by Colorimetry	Filtered
KONENS	Chloride in Solids (BSEN 12457-2)	Filtered
Leachate Prep CEN 10:1	WAC Leachate Prep, 1-Stage 10:1 (BSEN 12457-2)	As Received
LOI(%MM)	LOI: Loss on Ignition @ 450°C	Air Dried & Ground
PAHMSUS	17 PAHs (inc. Coronene) for WAC by GCMS	As Received
PCBECD	PCBs, ICES 7 Congeners inc. Total Calculation	As Received
PHCONDW	Electrical Conductivity @ 25°C	Filtered
PHCONDW	pH	Filtered



Project Number: 24033090

Client: Geotechnical Engineering Limited
Date Issued: 15/04/2024
Project Name: 37977 - Falmouth Docks Development

PHCONDW	TDS: Total Dissolved Solids (Calc)	Filtered
PHCONDW	Total Dissolved Solids in Solids (BSEN 12457-2)	Filtered
PHSOIL	pH (2.5:1)	As Received
SFAPI	Phenol Index (Total) by SFA	Filtered
SFAPI	Phenol Index in Solids (BSEN 12457-2)	Filtered
TOCW	Leached Organic Carbon in Solids (BSEN 12457-2)	Filtered
TOCW	LOC: Leached Organic Carbon	Filtered
TPHFIDUS (Aliphatic)	TPH (>C8-C40) Aliphatic and Carbon Band (>C 10-C40)	As Received
WSLM59	TOC: Total Organic Carbon	Air Dried & Ground

Result Report Notes

Letters alongside results signify that the result has associated report notes.
The report notes are as follows:

Letter	Note
A	Due to the matrix of the sample the laboratory has had to deviate from our standard protocols to be able to process the sample and provide a result. Where applicable the accreditation has been removed and this should be taken into consideration when utilising the data.
B	The QC associated with this result has not wholly met the QMS requirements, the accreditation has therefore been removed. However, the Laboratory has confidence in the performance of the method as a whole and that the integrity of the data has not been significantly compromised.
C	Due to matrix interference, the internal standard and/or surrogate has not met the QMS requirements. This should be taken into consideration when utilising the data.
D	A non-standard volume or mass has been used for this test which has resulted in a raised detection limit.
E	Due to the parameter value being beyond our calibration range (and following the maximum size of dilution allowed, where applicable), the result cannot be quantified and as such the result will appear as a greater than symbol (>) with the accreditation removed. This data should be used for indicative purposes only.
F	Based on the sample history, appearance and smell a dilution was applied prior to testing. Unfortunately, the result is either above (>) or below (<) our calibration range. Results above our calibration range have accreditation removed. The data should be used for indicative purposes only.
G	The day 5 oxygen reading was below the capability of the instrument to detect, and therefore the calculated BOD has been reported unaccredited for guidance purposes only.

HWOL Acronym Key

Acronym	Description
HS	Headspace Analysis
EH	Extractable Hydrocarbons - i.e everything extracted by the solvent(s)
CU	Clean up - e.g. by florisil, silica gel
1D	GC - Single coil gas chromatography
Total	Aliphatics & Aromatics
AL	Aliphatics only
AR	Aromatics only
+	Operator to indicate cumulative e.g. EH_CU+HS_1D_Total



Project Number: [24033090](#)

Client: Geotechnical Engineering Limited

Date Issued: 15/04/2024

Project Name: 37977 - Falmouth Docks Development

Additional Information

This report refers to samples as received. SOCOTEC UK Ltd takes no responsibility for accuracy or competence of sampling by others.

Results within this report relate only to the samples tested.

The accreditation codes are as follows:

U = UKAS accredited analysis
M = MCERT accredited analysis
N = Unaccredited analysis

Any accreditation marked with ^ signify results are reported on a dry weight basis of 35 ° c.

All Air Dried and Ground Samples (ADG) are oven dried at less than 35 ° c.

This report shall not be reproduced except in full, without written approval of the laboratory.

Opinions and interpretations given are outside the scope of our UKAS accreditation.

Any results marked with * are not covered by our scope of UKAS accreditation. If applicable, further report notes have been added.

Any solid samples where the Major Constituents are not one of the following (Sand, Silt, Clay, Made Ground) are not one of our accredited matrix types.

Any samples marked with a tick in the deviant table is deviant for the specific reason.

Any samples reported as IS, NA, ND mean the following:

IS = Insufficient Sample to complete analysis
NA = Sample is not amenable for the required analysis
ND = Results cannot be determined

Items listed with a 'SUB' method code prefix have been carried out by another SOCOTEC department or by an external subcontracted laboratory.

Our deviating sample report does not include deviancy information for Subcontracted analysis. Please see the report from the subcontracted lab for information regarding any deviancies for this analysis.

Summaries of analysis methods are available upon request.

End of Certificate of Analysis

Certificate of Analysis

Client: Geotechnical Engineering Limited

Project: 24033590

Quote: BEC240334421 V1.2

Project Ref: 37977

Site: Falmouth Docks Development

Contact: Mark Jones

Address: Centurion House,
Olympus Park, Quedgeley
Gloucester
GL2 4NF

E-Mail: mark.jones@geoeng.co.uk

Phone: 07748 775522

No. Samples Received: 1

Date Received: 28/03/2024

Analysis Completed: 09/04/2024

Date Issued: 09/04/2024

Report Type: Version 01

This report supersedes any versions previously issued by the laboratory



Reported by Customer Service Co-Ordinator
Julie Dickinson
01283 554496
Julie.Dickinson@socotec.co.uk



Project Number: 24033590

Client: Geotechnical Engineering Limited

Date Issued: 09/04/2024

Project Name: 37977 - Falmouth Docks Development

Samples Analysed

<u>Text ID</u>	<u>Sample Reference</u>	<u>Sampling Date</u>	<u>Sample Type</u>	<u>Sample Description</u>
24033590-001	VC-01-1-ES-0.00-3.65	25/03/2024 00:00:00	SOLID	Clay Sample

Analysis Results

SOCOTEC Sample ID: 24033590-001
 Sampling Date: 25/03/2024 00:00
 Customer ID: VC-01-1-ES-0.00-3.6
 5

Method Code	Analysis	MDL	Accred.	
CLANDPREP	Total Moisture at 35°C	0.1 %	N	26.9
	Major Constituents	-	N	CLAY
	Minor Constituents	-	N	Silt
	Miscellaneous Constituents	-	N	n/a
	Colour of Material	-	N	Grey/Brown
Leachate Prep CEN 10:1	Equivalent Weight of Dry Material (kg)	kg	N	0.090
	Fraction above 4mm (%)	%	N	0
	Fraction of non-crushable material (%)	%	N	0
	Volume of Water for 10:1 Leach (ltr)	l	N	0.863
	Weight of Sample Leached (kg)	kg	N	0.127
PHSOIL	pH (2.5:1 extraction)	1 pH units	M ^A	8.2
ANC	ANC	0.04 mol/kg	N ^A	2.76
LOI(%MM)	LOI @ 450°C	0.2 % m/m	N ^A	4.9
WSLM59	Total Organic Carbon	0.02 % m/m	U ^A	1.20
BTXHSA	Benzene (HS_1D_AR)	0.01 mg/kg	M ^A	<0.014
	Toluene (HS_1D_AR)	0.01 mg/kg	M ^A	<0.014
	Ethylbenzene (HS_1D_AR)	0.01 mg/kg	M ^A	<0.014
	m/p-Xylene (HS_1D_AR)	0.02 mg/kg	M ^A	<0.027
	o-Xylene (HS_1D_AR)	0.01 mg/kg	M ^A	0.028
	Total BTEX (HS_1D_AR)	0.06 mg/kg	M ^A	0.096
TPHFIDUS (Aliphatic)	Total TPH >C8-C40 (Aliphatic) (EH_CU_1D_AL)	20 mg/kg	U ^A	<27.4
	>C10-C40 (Aliphatic) (EH_CU_1D_AL)	20 mg/kg	U ^A	<27.4
PAHMSUS	Acenaphthene	0.08 mg/kg	M ^A	<0.11
	Acenaphthylene	0.08 mg/kg	U ^A	<0.11
	Anthracene	0.08 mg/kg	U ^A	<0.11
	Benzo[a]anthracene	0.08 mg/kg	M ^A	<0.11
	Benzo[a]pyrene	0.08 mg/kg	M ^A	<0.11
	Benzo[b]fluoranthene	0.08 mg/kg	M ^A	<0.11
	Benzo[g,h,i]perylene	0.08 mg/kg	M ^A	<0.11
	Benzo[k]fluoranthene	0.08 mg/kg	M ^A	<0.11
	Chrysene	0.08 mg/kg	M ^A	<0.11
	Coronene	0.08 mg/kg	N ^A	<0.11
	Dibenzo[a,h]anthracene	0.08 mg/kg	M ^A	<0.11
	Fluoranthene	0.08 mg/kg	M ^A	<0.11
	Fluorene	0.08 mg/kg	M ^A	<0.11
	Indeno[1,2,3-cd]pyrene	0.08 mg/kg	M ^A	<0.11
	Naphthalene	0.08 mg/kg	M ^A	<0.11
	Phenanthrene	0.08 mg/kg	M ^A	<0.11
	Pyrene	0.08 mg/kg	M ^A	<0.11
	Total PAH 16	1.28 mg/kg	U ^A	<1.75
	Total PAH 17	1.36 mg/kg	N ^A	<1.86
PCBECD	PCB 28	0.005 mg/kg	M ^A	<0.007
	PCB 52	0.005 mg/kg	M ^A	<0.007
	PCB 101	0.005 mg/kg	M ^A	<0.007
	PCB 118	0.005 mg/kg	M ^A	<0.007
	PCB 138	0.005 mg/kg	M ^A	<0.007
	PCB 153	0.005 mg/kg	M ^A	<0.007
	PCB 180	0.005 mg/kg	M ^A	<0.007
	Total PCB 7 Congeners	0.035 mg/kg	M ^A	<0.048
PHCONDW	pH	1 pH units	N	8.4
PHCONDW	Conductivity at 25°C	100 µS/cm	N	2450
PHCONDW	TDS as mg/kg	700 mg/kg	N	16500
	TDS as mg/l	70 mg/l	N	1670
TOCW	Leached Organic Carbon	0.4 mg/l	U	5.04
		2 mg/kg	N	49.8
KONENS	Chloride as Cl	1 mg/l	U	655
		10 mg/kg	N	6470
ISEF	Fluoride as F	0.1 mg/l	U	0.3
		1 mg/kg	N	3
SFAP1	Phenol Index	0.05 mg/l	U	<0.05
		0.5 mg/kg	N	<0.5
ICPMSW (Dissolved)	Antimony as Sb	0.001 mg/l	U	0.011
		0.01 mg/kg	N	0.11
ICPMSW (Dissolved)	Arsenic as As	0.001 mg/l	U	0.005
		0.01 mg/kg	N	0.05
ICPWATVAR (Dissolved)	Barium as Ba	0.01 mg/l	U	0.01
		0.1 mg/kg	N	<0.1
ICPMSW (Dissolved)	Cadmium as Cd	0.00002 mg/l	U	<0.00002
		0.0002 mg/kg	N	<0.0002
ICPMSW (Dissolved)	Total Chromium as Cr	0.001 mg/l	U	<0.001
		0.01 mg/kg	N	<0.01
ICPMSW (Dissolved)	Copper as Cu	0.001 mg/l	U	0.001
		0.01 mg/kg	N	<0.01
ICPMSW (Dissolved)	Lead as Pb	0.001 mg/l	U	<0.001
		0.01 mg/kg	N	<0.01
ICPMSW (Dissolved)	Mercury as Hg	0.00003 mg/l	U	<0.00003
		0.0003 mg/kg	N	<0.0003
ICPMSW (Dissolved)	Molybdenum as Mo	0.001 mg/l	U	0.051
		0.01 mg/kg	N	0.50
ICPMSW (Dissolved)	Nickel as Ni	0.001 mg/l	U	0.002
		0.01 mg/kg	N	0.02
ICPMSW (Dissolved)	Selenium as Se	0.001 mg/l	U	0.002



Project Number: 24033590

Client: Geotechnical Engineering Limited
Date Issued: 09/04/2024
Project Name: 37977 - Falmouth Docks Development



Analysis Results

SOCOTEC Sample ID: 24033590-001
Sampling Date: 25/03/2024 00:00
Customer ID: VC-01-1-ES-0.00-3.6
MDL: 5
Accred.:

Method Code	Analysis	MDL	Accred.	
ICPMSW (Dissolved)	Selenium as Se	0.01 mg/kg	N	0.02
ICPWATVAR (Dissolved)	Total Sulphur as SO4	3 mg/l	U	214
		30 mg/kg	N	2110
ICPMSW (Dissolved)	Zinc as Zn	0.002 mg/l	U	<0.002
		0.02 mg/kg	N	<0.02

10:1 Cumulative Amount Leached: ☐ 1st Stage Leachate Results: ☐

Client Name: Geotechnical Engineering Limited
 Lab Sample ID: 24033590-001
 Sample ID: VC-01-1-ES-0.00-3.65
 Site Name: 37977 - Falmouth Docks Development

Leachate Preparation Data

Weight of Sample (kg)	0.127	Moisture content @ 105°C (%)	29.0
Equivalent weight dried @ 105°C (kg)	0.090	Volume of Water required for 10:1 stage (l)	0.863
Fraction of sample above 4mm (%)	0	Fraction of non-crushable material (%)	0

Note: The >4mm fraction is crushed using a disc mill

Solid Sample Results

				Landfill Waste Acceptance Criteria Limit Values		
Method Code	Analysis	Result	Accred.	Inert Waste Landfill	Stable Non-Reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
WSLM59	Total Organic Carbon (% m/m)	1.20	U	3	5	6
LOI(%MM)	Loss on Ignition (% m/m)	4.9	N			10
BTEXHSA	Sum of BTEX (mg/kg) (HS_1D_AR)	0.096	M	6		
PCBECD	Sum of 7 Congener PCBs (mg/kg)	<0.048	M	1		
TPHFIDUS (Aliphatic)	>C10-C40 Aliphatic (mg/kg) (EH_CU_1D_AL)	<27.4	U	500		
PAHMSUS	Sum of 17 PAHs (mg/kg)	<1.86	N	100		
PHSOIL	pH (pH units)	8.2	M		>6	
ANC	Acid Neutralisation Capacity (mol/kg)	2.76	N		To be evaluated	To be evaluated

10:1 Cumulative Leachate Results

				Landfill Waste Acceptance Criteria Limit Values		
Method Code	Analysis	Result	Accred.	Inert Waste Landfill	Stable Non-Reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
PHCONDW	pH (pH units)	8.4	N			
PHCONDW	Conductivity (µS/cm)	2450	N			
ICPMSW (Dissolved)	Antimony (mg/kg)	0.11	N	0.06	0.7	5
ICPMSW (Dissolved)	Arsenic (mg/kg)	0.05	N	0.5	2	25
ICPWATVAR (Dissolv	Barium (mg/kg)	<0.1	N	20	100	300
ICPMSW (Dissolved)	Cadmium (mg/kg)	<0.0002	N	0.04	1	5
ICPMSW (Dissolved)	Chromium (mg/kg)	<0.01	N	0.5	10	70
ICPMSW (Dissolved)	Copper (mg/kg)	<0.01	N	2	50	100
ICPMSW (Dissolved)	Lead (mg/kg)	<0.01	N	0.5	10	50
ICPMSW (Dissolved)	Mercury (mg/kg)	<0.0003	N	0.01	0.2	2
ICPMSW (Dissolved)	Molybdenum (mg/kg)	0.50	N	0.5	10	30
ICPMSW (Dissolved)	Nickel (mg/kg)	0.02	N	0.4	10	40
ICPMSW (Dissolved)	Selenium (mg/kg)	0.02	N	0.1	0.5	7
ICPMSW (Dissolved)	Zinc (mg/kg)	<0.02	N	4	50	200
KONENS	Chloride (mg/kg)	6470	N	800	15000	25000
ISEF	Fluoride (mg/kg)	3	N	10	150	500
ICPWATVAR (Dissolv	Sulphate as SO4 (mg/kg)	2110	N	1000	20000	50000
PHCONDW	Total Dissolved Solids (mg/kg)	16500	N	4000	60000	100000
SFAPI	Phenol Index (mg/kg)	<0.5	N	1		
TOCW	Dissolved Organic Carbon (mg/kg)	49.8	N	500	800	1000

Accreditation status of M denotes MCERT, U denotes UKAS, N denotes no accreditation for the specific result

Landfill Waste Acceptance Criteria limit values are taken from 2003/33/EC: Council Decision and are correct as of 8th January 2024

Conductivity and pH results are reported from the leached sample, not calculated into the cumulative solid sample

Deviating Sample Report

All samples received in an appropriate condition with no deviancies noted with the samples.

Analysis Method

<u>Method Code</u>	<u>Method Description</u>	<u>Analysis Method</u>
ANC	ANC: Acid Neutralisation Capacity (mol/kg)	Air Dried & Ground
BTEXHSA	BTEX for WAC by GCFID	As Received
CLANDPREP	CLand Prep and Dry Weight Correction to 35°C	As Received
CLANDPREP	Solid Material Description	As Received
ICPSMW (Dissolved)	Antimony (Diss.) in Lab Leachate by ICPMS	Filtered
ICPSMW (Dissolved)	Antimony in Solids (BSEN 12457-2)	Filtered
ICPSMW (Dissolved)	Arsenic (Diss.) in Lab Leachate by ICPMS	Filtered
ICPSMW (Dissolved)	Arsenic in Solids (BSEN 12457-2)	Filtered
ICPSMW (Dissolved)	Cadmium (Diss.) in Lab Leachate by ICPMS	Filtered
ICPSMW (Dissolved)	Cadmium in Solids (BSEN 12457-2)	Filtered
ICPSMW (Dissolved)	Chromium (Diss.) in Lab Leachate by ICPMS	Filtered
ICPSMW (Dissolved)	Chromium in Solids (BSEN 12457-2)	Filtered
ICPSMW (Dissolved)	Copper (Diss.) in Lab Leachate by ICPMS	Filtered
ICPSMW (Dissolved)	Copper in Solids (BSEN 12457-2)	Filtered
ICPSMW (Dissolved)	Lead (Diss.) in Lab Leachate by ICPMS	Filtered
ICPSMW (Dissolved)	Lead in Solids (BSEN 12457-2)	Filtered
ICPSMW (Dissolved)	Mercury (Diss.) in Lab Leachate by ICPMS	Filtered
ICPSMW (Dissolved)	Mercury in Solids (BSEN 12457-2)	Filtered
ICPSMW (Dissolved)	Molybdenum (Diss.) in Lab Leachate by ICPMS	Filtered
ICPSMW (Dissolved)	Molybdenum in Solids (BSEN 12457-2)	Filtered
ICPSMW (Dissolved)	Nickel (Diss.) in Lab Leachate by ICPMS	Filtered
ICPSMW (Dissolved)	Nickel in Solids (BSEN 12457-2)	Filtered
ICPSMW (Dissolved)	Selenium (Diss.) in Lab Leachate by ICPMS	Filtered
ICPSMW (Dissolved)	Selenium in Solids (BSEN 12457-2)	Filtered
ICPSMW (Dissolved)	Zinc (Diss.) in Lab Leachate by ICPMS	Filtered
ICPSMW (Dissolved)	Zinc in Solids (BSEN 12457-2)	Filtered
ICPWATVAR (Dissolved)	Barium (Diss.) in Lab Leachate by ICPOES	Filtered
ICPWATVAR (Dissolved)	Barium in Solids (BSEN 12457-2)	Filtered
ICPWATVAR (Dissolved)	Total Sulphur as SO ₄ (Diss.) in Lab Leachate	Filtered
ICPWATVAR (Dissolved)	Total Sulphur as SO ₄ in Solids (BSEN 12457-2)	Filtered
ISEF	Fluoride by ISE	Filtered
ISEF	Fluoride in Solids (BSEN 12457-2)	Filtered
KONENS	Chloride by Colorimetry	Filtered
KONENS	Chloride in Solids (BSEN 12457-2)	Filtered
Leachate Prep CEN 10:1	WAC Leachate Prep, 1-Stage 10:1 (BSEN 12457-2)	As Received
LOI(%MM)	LOI: Loss on Ignition @ 450°C	Air Dried & Ground
PAHMSUS	17 PAHs (inc. Coronene) for WAC by GCMS	As Received
PCBECD	PCBs, ICES 7 Congeners inc. Total Calculation	As Received
PHCONDW	Electrical Conductivity @ 25°C	Filtered
PHCONDW	pH	Filtered
PHCONDW	TDS: Total Dissolved Solids (Calc)	Filtered
PHCONDW	Total Dissolved Solids in Solids (BSEN 12457-2)	Filtered
PHSOIL	pH (2.5:1)	As Received
SFAPI	Phenol Index (Total) by SFA	Filtered
SFAPI	Phenol Index in Solids (BSEN 12457-2)	Filtered
TOCW	Leached Organic Carbon in Solids (BSEN 12457-2)	Filtered



Project Number: 24033590

Client: Geotechnical Engineering Limited
Date Issued: 09/04/2024
Project Name: 37977 - Falmouth Docks Development

TOCW	LOC: Leached Organic Carbon	Filtered
TPHFIDUS (Aliphatic)	TPH (>C8-C40) Aliphatic and Carbon Band (>C10-C40)	As Received
WSLM59	TOC: Total Organic Carbon	Air Dried & Ground

Result Report Notes

Letters alongside results signify that the result has associated report notes.
The report notes are as follows:

<u>Letter</u>	<u>Note</u>
A	Due to the matrix of the sample the laboratory has had to deviate from our standard protocols to be able to process the sample and provide a result. Where applicable the accreditation has been removed and this should be taken into consideration when utilising the data.
B	The QC associated with this result has not wholly met the QMS requirements, the accreditation has therefore been removed. However, the Laboratory has confidence in the performance of the method as a whole and that the integrity of the data has not been significantly compromised.
C	Due to matrix interference, the internal standard and/or surrogate has not met the QMS requirements. This should be taken into consideration when utilising the data.
D	A non-standard volume or mass has been used for this test which has resulted in a raised detection limit.
E	Due to the parameter value being beyond our calibration range (and following the maximum size of dilution allowed, where applicable), the result cannot be quantified and as such the result will appear as a greater than symbol (>) with the accreditation removed. This data should be used for indicative purposes only.
F	Based on the sample history, appearance and smell a dilution was applied prior to testing. Unfortunately, the result is either above (>) or below (<) our calibration range. Results above our calibration range have accreditation removed. The data should be used for indicative purposes only.
G	The day 5 oxygen reading was below the capability of the instrument to detect, and therefore the calculated BOD has been reported unaccredited for guidance purposes only.

HWOL Acronym Key

<u>Acronym</u>	<u>Description</u>
HS	Headspace Analysis
EH	Extractable Hydrocarbons - i.e everything extracted by the solvent(s)
CU	Clean up - e.g. by florisil, silica gel
1D	GC - Single coil gas chromatography
Total	Aliphatics & Aromatics
AL	Aliphatics only
AR	Aromatics only
+	Operator to indicate cumulative e.g. EH_CU+HS_1D_Total



Project Number: [24033590](#)

Client: Geotechnical Engineering Limited

Date Issued: 09/04/2024

Project Name: 37977 - Falmouth Docks Development

Additional Information

This report refers to samples as received. SOCOTEC UK Ltd takes no responsibility for accuracy or competence of sampling by others.

Results within this report relate only to the samples tested.

The accreditation codes are as follows:

U = UKAS accredited analysis
M = MCERT accredited analysis
N = Unaccredited analysis

Any accreditation marked with ^ signify results are reported on a dry weight basis of 35 ° c.

All Air Dried and Ground Samples (ADG) are oven dried at less than 35 ° c.

This report shall not be reproduced except in full, without written approval of the laboratory.

Opinions and interpretations given are outside the scope of our UKAS accreditation.

Any results marked with * are not covered by our scope of UKAS accreditation. If applicable, further report notes have been added.

Any solid samples where the Major Constituents are not one of the following (Sand, Silt, Clay, Made Ground) are not one of our accredited matrix types.

Any samples marked with a tick in the deviant table is deviant for the specific reason.

Any samples reported as IS, NA, ND mean the following:

IS = Insufficient Sample to complete analysis
NA = Sample is not amenable for the required analysis
ND = Results cannot be determined

Items listed with a 'SUB' method code prefix have been carried out by another SOCOTEC department or by an external subcontracted laboratory.

Our deviating sample report does not include deviancy information for Subcontracted analysis. Please see the report from the subcontracted lab for information regarding any deviancies for this analysis.

Summaries of analysis methods are available upon request.

End of Certificate of Analysis

Certificate of Analysis

Client: Geotechnical Engineering Limited

Project: 24040692

Quote: BEC240334421 V1.2

Project Ref: 37977

Site: Falmouth Docks Development

Contact: Mark Jones

Address: Centurion House,
Olympus Park, Quedgeley
Gloucester
GL2 4NF

E-Mail: mark.jones@geoeng.co.uk

Phone: 07748 775522

No. Samples Received: 3

Date Received: 09/04/2024

Analysis Completed: 17/04/2024

Date Issued: 17/04/2024

Report Type: Version 01

This report supersedes any versions previously issued by the laboratory



Reported by Customer Service Co-Ordinator
Julie Dickinson
01283 554496
Julie.Dickinson@socotec.co.uk



Project Number: 24040692

Client: Geotechnical Engineering Limited
Date Issued: 17/04/2024
Project Name: 37977 - Falmouth Docks Development

Samples Analysed

<u>Text ID</u>	<u>Sample Reference</u>	<u>Sampling Date</u>	<u>Sample Type</u>	<u>Sample Description</u>
24040692-001	VC-12A-1-ES-0.00-5.20	26/03/2024 00:00:00	SOLID	Clay Sample
24040692-002	VC-19-1-ES-0.00-5.60	27/03/2024 00:00:00	SOLID	Clay Sample
24040692-003	VC-26-1-ES-0.00-5.20	27/03/2024 00:00:00	SOLID	Clay Sample

Analysis Results

SOCOTEC Sample ID:				24040692-001	24040692-002	24040692-003
Sampling Date:				26/03/2024 00:00	27/03/2024 00:00	27/03/2024 00:00
Customer ID:				VC-12A-1-ES-0.00-5.20	VC-19-1-ES-0.00-5.6	VC-26-1-ES-0.00-5.2
Method Code	Analysis	MDL	Accred.			
CLANDPREP	Total Moisture at 35°C	0.1 %	N	40.5	34.8	32.3
	Major Constituents	-	N	CLAY	CLAY	CLAY
	Minor Constituents	-	N	Gravel	Gravel	Gravel
	Miscellaneous Constituents	-	N	n/a	n/a	n/a
	Colour of Material	-	N	Black/Brown	Black/Brown	Black/Brown
Leachate Prep CEN 10:1	Equivalent Weight of Dry Material (kg)	kg	N	0.090	0.090	0.090
	Fraction above 4mm (%)	%	N	0	0	0
	Fraction of non-crushable material (%)	%	N	0	0	0
	Volume of Water for 10:1 Leach (litr)	l	N	0.834	0.851	0.854
	Weight of Sample Leached (kg)	kg	N	0.156	0.139	0.136
PHSOIL	pH (2.5:1 extraction)	1 pH units	M ^A	8.0	7.7	7.5
ANC	ANC	0.04 mol/kg	N ^A	2.64	1.84	2.40
PHCONDW	TDS as mg/kg	700 mg/kg	N		23100	
LOI(%MM)	LOI @ 450°C	0.2 % m/m	N ^A	7.8	8.5	5.8
WSLM59	Total Organic Carbon	0.02 % m/m	U ^A	1.97	2.00	1.60
TOCW	Leached Organic Carbon	2 mg/kg	N		147	
KONENS	Chloride as Cl	10 mg/kg	N		9550	
ISEF	Fluoride as F	1 mg/kg	N		4	
SFAPI	Phenol Index	0.5 mg/kg	N		<0.5	
ICPMSW (Dissolved)	Antimony as Sb	0.01 mg/kg	N		0.12	
ICPMSW (Dissolved)	Arsenic as As	0.01 mg/kg	N		0.03	
ICPWATVAR (Dissolved)	Barium as Ba	0.1 mg/kg	N		<0.1	
ICPMSW (Dissolved)	Cadmium as Cd	0.0002 mg/kg	N		0.0004	
ICPMSW (Dissolved)	Total Chromium as Cr	0.01 mg/kg	N		<0.01	
ICPMSW (Dissolved)	Copper as Cu	0.01 mg/kg	N		<0.01	
ICPMSW (Dissolved)	Lead as Pb	0.01 mg/kg	N		<0.01	
ICPMSW (Dissolved)	Mercury as Hg	0.0003 mg/kg	N		<0.0003	
ICPMSW (Dissolved)	Molybdenum as Mo	0.01 mg/kg	N		3.40	
ICPMSW (Dissolved)	Nickel as Ni	0.01 mg/kg	N		0.02	
ICPMSW (Dissolved)	Selenium as Se	0.01 mg/kg	N		<0.01	
ICPWATVAR (Dissolved)	Total Sulphur as SO ₄	30 mg/kg	N		3140	
ICPMSW (Dissolved)	Zinc as Zn	0.02 mg/kg	N		0.05	
BTXHSA	Benzene (HS_1D_AR)	0.01 mg/kg	M ^A	<0.017	<0.015	<0.015
	Toluene (HS_1D_AR)	0.01 mg/kg	M ^A	<0.017	<0.015	<0.015
	Ethylbenzene (HS_1D_AR)	0.01 mg/kg	M ^A	<0.017	<0.015	<0.015
	m/p-Xylene (HS_1D_AR)	0.02 mg/kg	M ^A	<0.034	<0.031	<0.030
	o-Xylene (HS_1D_AR)	0.01 mg/kg	M ^A	<0.017	<0.015	<0.015
	Total BTX (HS_1D_AR)	0.06 mg/kg	M ^A	<0.101	<0.092	<0.089
TPHFIDUS (Aliphatic)	Total TPH >C8-C40 (Aliphatic) (EH_CU_1D_AL)	20 mg/kg	U ^A	95.7	<30.7	<29.5
	>C10-C40 (Aliphatic) (EH_CU_1D_AL)	20 mg/kg	U ^A	91.4	<30.7	<29.5
PAHMSUS	Acenaphthene	0.08 mg/kg	M ^A	<0.13	<0.12	<0.12
	Acenaphthylene	0.08 mg/kg	U ^A	<0.13	<0.12	<0.12
	Anthracene	0.08 mg/kg	U ^A	<0.13	<0.12	<0.12
	Benzo[a]anthracene	0.08 mg/kg	M ^A	0.23	<0.12	<0.12
	Benzo[a]pyrene	0.08 mg/kg	M ^A	0.29	<0.12	<0.12
	Benzo[b]fluoranthene	0.08 mg/kg	M ^A	0.37	<0.12	<0.12
	Benzo[g,h,i]perylene	0.08 mg/kg	M ^A	0.19	<0.12	<0.12
	Benzo[k]fluoranthene	0.08 mg/kg	M ^A	0.20	<0.12	<0.12
	Chrysene	0.08 mg/kg	M ^A	0.25	<0.12	<0.12
	Coronene	0.08 mg/kg	N ^A	<0.13	<0.12	<0.12
	Dibenzo[a,h]anthracene	0.08 mg/kg	M ^A	<0.13	<0.12	<0.12
	Fluoranthene	0.08 mg/kg	M ^A	0.47	<0.12	<0.12
	Fluorene	0.08 mg/kg	M ^A	<0.13	<0.12	<0.12
	Indeno[1,2,3-cd]pyrene	0.08 mg/kg	M ^A	0.21	<0.12	<0.12
	Naphthalene	0.08 mg/kg	M ^A	<0.13	<0.12	<0.12
	Phenanthrene	0.08 mg/kg	M ^A	0.17	<0.12	<0.12
	Pyrene	0.08 mg/kg	M ^A	0.60	<0.12	<0.12
	Total PAH 16	1.28 mg/kg	U ^A	3.78	<1.96	<1.89
	Total PAH 17	1.36 mg/kg	N ^A	3.92	<2.09	<2.01
PCBECD	PCB 28	0.005 mg/kg	M ^A	<0.008	<0.008	<0.007
	PCB 52	0.005 mg/kg	M ^A	<0.008	<0.008	<0.007
	PCB 101	0.005 mg/kg	M ^A	<0.008	<0.008	<0.007
	PCB 118	0.005 mg/kg	M ^A	<0.008	<0.008	<0.007
	PCB 138	0.005 mg/kg	M ^A	<0.008	<0.008	<0.007
	PCB 153	0.005 mg/kg	M ^A	<0.008	<0.008	<0.007
	PCB 180	0.005 mg/kg	M ^A	<0.008	<0.008	<0.007
	Total PCB 7 Congeners	0.035 mg/kg	M ^A	<0.059	<0.054	<0.052
PHCONDW	pH	1 pH units	N	8.2	8.1	8.2
PHCONDW	Conductivity at 25°C	100 µS/cm	N	4520	3450	3230
PHCONDW	TDS as mg/kg	700 mg/kg	N	29800		21600
	TDS as mg/l	70 mg/l	N	3070	2350	2200
TOCW	Leached Organic Carbon	0.4 mg/l	U	16.4	15.0	13.3
		2 mg/kg	N	159		131
KONENS	Chloride as Cl	1 mg/l	U	1380	974	923
		10 mg/kg	N	13400		9070
ISEF	Fluoride as F	0.1 mg/l	U	0.4	0.4	0.4
		1 mg/kg	N	4		4
SFAPI	Phenol Index	0.05 mg/l	U	<0.05	<0.05	<0.05
		0.5 mg/kg	N	<0.5		<0.5
ICPMSW (Dissolved)	Antimony as Sb	0.001 mg/l	U	0.012	0.012	0.013
		0.01 mg/kg	N	0.12		0.13
ICPMSW (Dissolved)	Arsenic as As	0.001 mg/l	U	0.005	0.003	0.007



Project Number: 24040692

Client: Geotechnical Engineering Limited
Date Issued: 17/04/2024
Project Name: 37977 - Falmouth Docks Development



Analysis Results

		SOCOTEC Sample ID:		24040692-001	24040692-002	24040692-003
		Sampling Date:		26/03/2024 00:00	27/03/2024 00:00	27/03/2024 00:00
		Customer ID:		VC-12A-1-ES-0.00-5	VC-19-1-ES-0.00-5.6	VC-26-1-ES-0.00-5.2
		MDL		.20	0	0
Method Code	Analysis	MDL	Accred.			
ICPMSW (Dissolved)	Arsenic as As	0.01 mg/kg	N	0.05		0.07
ICPMSW (Dissolved)	Arsenic as As	0.01 mg/l	U	0.02	0.01	<0.01
ICPWATVAR (Dissolved)	Barium as Ba	0.1 mg/kg	N	0.2		<0.1
ICPMSW (Dissolved)	Cadmium as Cd	0.00002 mg/l	U	<0.00002	0.00004	0.00004
ICPMSW (Dissolved)	Cadmium as Cd	0.0002 mg/kg	N	<0.0002		0.0004
ICPMSW (Dissolved)	Total Chromium as Cr	0.001 mg/l	U	<0.001	<0.001	0.001
ICPMSW (Dissolved)	Total Chromium as Cr	0.01 mg/kg	N	<0.01		<0.01
ICPMSW (Dissolved)	Copper as Cu	0.001 mg/l	U	<0.001	<0.001	<0.001
ICPMSW (Dissolved)	Copper as Cu	0.01 mg/kg	N	<0.01		<0.01
ICPMSW (Dissolved)	Lead as Pb	0.001 mg/l	U	<0.001	<0.001	<0.001
ICPMSW (Dissolved)	Lead as Pb	0.01 mg/kg	N	<0.01		<0.01
ICPMSW (Dissolved)	Mercury as Hg	0.00003 mg/l	U	<0.00003	<0.00003	<0.00003
ICPMSW (Dissolved)	Mercury as Hg	0.0003 mg/kg	N	<0.0003		<0.0003
ICPMSW (Dissolved)	Molybdenum as Mo	0.001 mg/l	U	0.054	0.347	0.195
ICPMSW (Dissolved)	Molybdenum as Mo	0.01 mg/kg	N	0.52		1.92
ICPMSW (Dissolved)	Nickel as Ni	0.001 mg/l	U	<0.001	0.002	0.002
ICPMSW (Dissolved)	Nickel as Ni	0.01 mg/kg	N	<0.01		0.02
ICPMSW (Dissolved)	Selenium as Se	0.001 mg/l	U	<0.001	<0.001	<0.001
ICPMSW (Dissolved)	Selenium as Se	0.01 mg/kg	N	<0.01		<0.01
ICPWATVAR (Dissolved)	Total Sulphur as SO4	3 mg/l	U	155	320	181
ICPWATVAR (Dissolved)	Total Sulphur as SO4	30 mg/kg	N	1500		1780
ICPMSW (Dissolved)	Zinc as Zn	0.002 mg/l	U	0.003	0.005	0.003
ICPMSW (Dissolved)	Zinc as Zn	0.02 mg/kg	N	0.03		0.03

10:1 Cumulative Amount Leached: ☐ 1st Stage Leachate Results: ☐

Client Name: Geotechnical Engineering Limited
 Lab Sample ID: 24040692-001
 Sample ID: VC-12A-1-ES-0.00-5.20
 Site Name: 37977 - Falmouth Docks Development

Leachate Preparation Data

Weight of Sample (kg)	0.156	Moisture content @ 105°C (%)	42.4
Equivalent weight dried @ 105°C (kg)	0.090	Volume of Water required for 10:1 stage (l)	0.834
Fraction of sample above 4mm (%)	0	Fraction of non-crushable material (%)	0

Note: The >4mm fraction is crushed using a disc mill

Solid Sample Results

Method Code	Analysis	Result	Accred.	Landfill Waste Acceptance Criteria Limit Values		
				Inert Waste Landfill	Stable Non-Reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
WSLM59	Total Organic Carbon (% m/m)	1.97	U	3	5	6
LOI(%MM)	Loss on Ignition (% m/m)	7.8	N			10
BTEXHSA	Sum of BTEX (mg/kg) (HS_1D_AR)	<0.101	M	6		
PCBECD	Sum of 7 Congener PCBs (mg/kg)	<0.059	M	1		
TPHFIDUS (Aliphatic)	>C10-C40 Aliphatic (mg/kg) (EH_CU_1D_AL)	91.4	U	500		
PAHMSUS	Sum of 17 PAHs (mg/kg)	3.92	N	100		
PHSOIL	pH (pH units)	8.0	M		>6	
ANC	Acid Neutralisation Capacity (mol/kg)	2.64	N		To be evaluated	To be evaluated

10:1 Cumulative Leachate Results

Method Code	Analysis	Result	Accred.	Landfill Waste Acceptance Criteria Limit Values		
				Inert Waste Landfill	Stable Non-Reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
PHCONDW	pH (pH units)	8.2	N			
PHCONDW	Conductivity (µS/cm)	4520	N			
ICPMSW (Dissolved)	Antimony (mg/kg)	0.12	N	0.06	0.7	5
ICPMSW (Dissolved)	Arsenic (mg/kg)	0.05	N	0.5	2	25
ICPWATVAR (Dissolv	Barium (mg/kg)	0.2	N	20	100	300
ICPMSW (Dissolved)	Cadmium (mg/kg)	<0.0002	N	0.04	1	5
ICPMSW (Dissolved)	Chromium (mg/kg)	<0.01	N	0.5	10	70
ICPMSW (Dissolved)	Copper (mg/kg)	<0.01	N	2	50	100
ICPMSW (Dissolved)	Lead (mg/kg)	<0.01	N	0.5	10	50
ICPMSW (Dissolved)	Mercury (mg/kg)	<0.0003	N	0.01	0.2	2
ICPMSW (Dissolved)	Molybdenum (mg/kg)	0.52	N	0.5	10	30
ICPMSW (Dissolved)	Nickel (mg/kg)	<0.01	N	0.4	10	40
ICPMSW (Dissolved)	Selenium (mg/kg)	<0.01	N	0.1	0.5	7
ICPMSW (Dissolved)	Zinc (mg/kg)	0.03	N	4	50	200
KONENS	Chloride (mg/kg)	13400	N	800	15000	25000
ISEF	Fluoride (mg/kg)	4	N	10	150	500
ICPWATVAR (Dissolv	Sulphate as SO4 (mg/kg)	1500	N	1000	20000	50000
PHCONDW	Total Dissolved Solids (mg/kg)	29800	N	4000	60000	100000
SFAPI	Phenol Index (mg/kg)	<0.5	N	1		
TOCW	Dissolved Organic Carbon (mg/kg)	159	N	500	800	1000

Accreditation status of M denotes MCERT, U denotes UKAS, N denotes no accreditation for the specific result

Landfill Waste Acceptance Criteria limit values are taken from 2003/33/EC: Council Decision and are correct as of 8th January 2024

Conductivity and pH results are reported from the leached sample, not calculated into the cumulative solid sample

Client Name: Geotechnical Engineering Limited
 Lab Sample ID: 24040692-002
 Sample ID: VC-19-1-ES-0.00-5.60
 Site Name: 37977 - Falmouth Docks Development

Leachate Preparation Data

Weight of Sample (kg)	0.139	Moisture content @ 105°C (%)	35.3
Equivalent weight dried @ 105°C (kg)	0.090	Volume of Water required for 10:1 stage (l)	0.851
Fraction of sample above 4mm (%)	0	Fraction of non-crushable material (%)	0

Note: The >4mm fraction is crushed using a disc mill

Solid Sample Results

Method Code	Analysis	Result	Accred.	Landfill Waste Acceptance Criteria Limit Values		
				Inert Waste Landfill	Stable Non-Reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
WSLM59	Total Organic Carbon (% m/m)	2.00	U	3	5	6
LOI(%MM)	Loss on Ignition (% m/m)	8.5	N			10
BTEXHSA	Sum of BTEX (mg/kg) (HS_1D_AR)	<0.092	M	6		
PCBECD	Sum of 7 Congener PCBs (mg/kg)	<0.054	M	1		
TPHFIDUS (Aliphatic)	>C10-C40 Aliphatic (mg/kg) (EH_CU_1D_AL)	<30.7	U	500		
PAHMSUS	Sum of 17 PAHs (mg/kg)	<2.09	N	100		
PHSOIL	pH (pH units)	7.7	M		>6	
ANC	Acid Neutralisation Capacity (mol/kg)	1.84	N		To be evaluated	To be evaluated

10:1 Cumulative Leachate Results

Method Code	Analysis	Result	Accred.	Landfill Waste Acceptance Criteria Limit Values		
				Inert Waste Landfill	Stable Non-Reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
PHCONDW	pH (pH units)	8.1	N			
PHCONDW	Conductivity (µS/cm)	3450	N			
ICPMSW (Dissolved)	Antimony (mg/kg)	0.12	N	0.06	0.7	5
ICPMSW (Dissolved)	Arsenic (mg/kg)	0.03	N	0.5	2	25
ICPWATVAR (Dissolv	Barium (mg/kg)	<0.1	N	20	100	300
ICPMSW (Dissolved)	Cadmium (mg/kg)	0.0004	N	0.04	1	5
ICPMSW (Dissolved)	Chromium (mg/kg)	<0.01	N	0.5	10	70
ICPMSW (Dissolved)	Copper (mg/kg)	<0.01	N	2	50	100
ICPMSW (Dissolved)	Lead (mg/kg)	<0.01	N	0.5	10	50
ICPMSW (Dissolved)	Mercury (mg/kg)	<0.0003	N	0.01	0.2	2
ICPMSW (Dissolved)	Molybdenum (mg/kg)	3.40	N	0.5	10	30
ICPMSW (Dissolved)	Nickel (mg/kg)	0.02	N	0.4	10	40
ICPMSW (Dissolved)	Selenium (mg/kg)	<0.01	N	0.1	0.5	7
ICPMSW (Dissolved)	Zinc (mg/kg)	0.05	N	4	50	200
KONENS	Chloride (mg/kg)	9550	N	800	15000	25000
ISEF	Fluoride (mg/kg)	4	N	10	150	500
ICPWATVAR (Dissolv	Sulphate as SO4 (mg/kg)	3140	N	1000	20000	50000
PHCONDW	Total Dissolved Solids (mg/kg)	23100	N	4000	60000	100000
SFAPI	Phenol Index (mg/kg)	<0.5	N	1		
TOCW	Dissolved Organic Carbon (mg/kg)	147	N	500	800	1000

Accreditation status of M denotes MCERT, U denotes UKAS, N denotes no accreditation for the specific result

Landfill Waste Acceptance Criteria limit values are taken from 2003/33/EC: Council Decision and are correct as of 8th January 2024

Conductivity and pH results are reported from the leached sample, not calculated into the cumulative solid sample

Client Name: Geotechnical Engineering Limited
 Lab Sample ID: 24040692-003
 Sample ID: VC-26-1-ES-0.00-5.20
 Site Name: 37977 - Falmouth Docks Development

Leachate Preparation Data

Weight of Sample (kg)	0.136	Moisture content @ 105°C (%)	34.0
Equivalent weight dried @ 105°C (kg)	0.090	Volume of Water required for 10:1 stage (l)	0.854
Fraction of sample above 4mm (%)	0	Fraction of non-crushable material (%)	0

Note: The >4mm fraction is crushed using a disc mill

Solid Sample Results

				Landfill Waste Acceptance Criteria Limit Values		
Method Code	Analysis	Result	Accred.	Inert Waste Landfill	Stable Non-Reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
WSLM59	Total Organic Carbon (% m/m)	1.60	U	3	5	6
LOI(%MM)	Loss on Ignition (% m/m)	5.8	N			10
BTEXHSA	Sum of BTEX (mg/kg) (HS_1D_AR)	<0.089	M	6		
PCBECD	Sum of 7 Congener PCBs (mg/kg)	<0.052	M	1		
TPHFIDUS (Aliphatic)	>C10-C40 Aliphatic (mg/kg) (EH_CU_1D_AL)	<29.5	U	500		
PAHMSUS	Sum of 17 PAHs (mg/kg)	<2.01	N	100		
PHSOIL	pH (pH units)	7.5	M		>6	
ANC	Acid Neutralisation Capacity (mol/kg)	2.40	N		To be evaluated	To be evaluated

10:1 Cumulative Leachate Results

				Landfill Waste Acceptance Criteria Limit Values		
Method Code	Analysis	Result	Accred.	Inert Waste Landfill	Stable Non-Reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
PHCONDW	pH (pH units)	8.2	N			
PHCONDW	Conductivity (µS/cm)	3230	N			
ICPMSW (Dissolved)	Antimony (mg/kg)	0.13	N	0.06	0.7	5
ICPMSW (Dissolved)	Arsenic (mg/kg)	0.07	N	0.5	2	25
ICPWATVAR (Dissolv	Barium (mg/kg)	<0.1	N	20	100	300
ICPMSW (Dissolved)	Cadmium (mg/kg)	0.0004	N	0.04	1	5
ICPMSW (Dissolved)	Chromium (mg/kg)	<0.01	N	0.5	10	70
ICPMSW (Dissolved)	Copper (mg/kg)	<0.01	N	2	50	100
ICPMSW (Dissolved)	Lead (mg/kg)	<0.01	N	0.5	10	50
ICPMSW (Dissolved)	Mercury (mg/kg)	<0.0003	N	0.01	0.2	2
ICPMSW (Dissolved)	Molybdenum (mg/kg)	1.92	N	0.5	10	30
ICPMSW (Dissolved)	Nickel (mg/kg)	0.02	N	0.4	10	40
ICPMSW (Dissolved)	Selenium (mg/kg)	<0.01	N	0.1	0.5	7
ICPMSW (Dissolved)	Zinc (mg/kg)	0.03	N	4	50	200
KONENS	Chloride (mg/kg)	9070	N	800	15000	25000
ISEF	Fluoride (mg/kg)	4	N	10	150	500
ICPWATVAR (Dissolv	Sulphate as SO4 (mg/kg)	1780	N	1000	20000	50000
PHCONDW	Total Dissolved Solids (mg/kg)	21600	N	4000	60000	100000
SFAPI	Phenol Index (mg/kg)	<0.5	N	1		
TOCW	Dissolved Organic Carbon (mg/kg)	131	N	500	800	1000

Accreditation status of M denotes MCERT, U denotes UKAS, N denotes no accreditation for the specific result

Landfill Waste Acceptance Criteria limit values are taken from 2003/33/EC: Council Decision and are correct as of 8th January 2024

Conductivity and pH results are reported from the leached sample, not calculated into the cumulative solid sample

Deviating Sample Report

			Incorrect Container	Incorrect Label	Headspace	Incorrect/No Preservative	No Sampling Date	Holding Time
Sample Reference	Text ID	Method Code						
VC-12A-1-ES-0.00-5.20	24040692-001	BTEXHSA						✓
VC-12A-1-ES-0.00-5.20	24040692-001	PHSOIL						✓
VC-19-1-ES-0.00-5.60	24040692-002	BTEXHSA						✓
VC-19-1-ES-0.00-5.60	24040692-002	PHSOIL						✓
VC-26-1-ES-0.00-5.20	24040692-003	BTEXHSA						✓
VC-26-1-ES-0.00-5.20	24040692-003	PHSOIL						✓

Analysis Method

Method Code

ANC
BTEXHSA
CLANDPREP
CLANDPREP
ICPSMW (Dissolved)
ICPSMW (Dissolved)
ICPSMW (Dissolved)
ICPSMW (Dissolved)
ICPSMW (Dissolved)
ICPSMW (Dissolved)
ICPSMW (Dissolved)
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ICPSMW (Dissolved)
ICPSMW (Dissolved)
ICPSMW (Dissolved)
ICPSMW (Dissolved)
ICPSMW (Dissolved)
ICPWATVAR (Dissolved)
ICPWATVAR (Dissolved)
ICPWATVAR (Dissolved)
ICPWATVAR (Dissolved)
ISEF
ISEF
KONENS
KONENS

Method Description

ANC: Acid Neutralisation Capacity (mol/kg)
BTEX for WAC by GCFID
CLand Prep and Dry Weight Correction to 35°C
Solid Material Description
Antimony (Diss.) in Lab Leachate by ICPMS
Antimony in Solids (BSEN 12457-2)
Arsenic (Diss.) in Lab Leachate by ICPMS
Arsenic in Solids (BSEN 12457-2)
Cadmium (Diss.) in Lab Leachate by ICPMS
Cadmium in Solids (BSEN 12457-2)
Chromium (Diss.) in Lab Leachate by ICPMS
Chromium in Solids (BSEN 12457-2)
Copper (Diss.) in Lab Leachate by ICPMS
Copper in Solids (BSEN 12457-2)
Lead (Diss.) in Lab Leachate by ICPMS
Lead in Solids (BSEN 12457-2)
Mercury (Diss.) in Lab Leachate by ICPMS
Mercury in Solids (BSEN 12457-2)
Molybdenum (Diss.) in Lab Leachate by ICPMS
Molybdenum in Solids (BSEN 12457-2)
Nickel (Diss.) in Lab Leachate by ICPMS
Nickel in Solids (BSEN 12457-2)
Selenium (Diss.) in Lab Leachate by ICPMS
Selenium in Solids (BSEN 12457-2)
Zinc (Diss.) in Lab Leachate by ICPMS
Zinc in Solids (BSEN 12457-2)
Barium (Diss.) in Lab Leachate by ICPOES
Barium in Solids (BSEN 12457-2)
Total Sulphur as SO₄ (Diss.) in Lab Leachate
Total Sulphur as SO₄ in Solids (BSEN 12457-2)
Fluoride by ISE
Fluoride in Solids (BSEN 12457-2)
Chloride by Colorimetry
Chloride in Solids (BSEN 12457-2)

Analysis Method

[illegible]



Project Number: 24040692

Client: Geotechnical Engineering Limited
Date Issued: 17/04/2024
Project Name: 37977 - Falmouth Docks Development

Leachate Prep CEN 10:1	WAC Leachate Prep, 1-Stage 10:1 (BSEN 12457-2)	As Received
LOI(%MM)	LOI: Loss on Ignition @ 450°C	Air Dried & Ground
PAHMSUS	17 PAHs (inc. Coronene) for WAC by GCMS	As Received
PCBECD	PCBs, ICES 7 Congeners inc. Total Calculation	As Received
PHCONDW	Electrical Conductivity @ 25°C	Filtered
PHCONDW	pH	Filtered
PHCONDW	TDS: Total Dissolved Solids (Calc)	Filtered
PHCONDW	Total Dissolved Solids in Solids (BSEN 12457-2)	Filtered
PHSOIL	pH (2.5:1)	As Received
SFAP1	Phenol Index (Total) by SFA	Filtered
SFAP1	Phenol Index in Solids (BSEN 12457-2)	Filtered
TOCW	Leached Organic Carbon in Solids (BSEN 12457-2)	Filtered
TOCW	LOC: Leached Organic Carbon	Filtered
TPHFIDUS (Aliphatic)	TPH (>C8-C40) Aliphatic and Carbon Band (>C 10-C40)	As Received
WSLM59	TOC: Total Organic Carbon	Air Dried & Ground

Result Report Notes

Letters alongside results signify that the result has associated report notes.
The report notes are as follows:

Letter	Note
A	Due to the matrix of the sample the laboratory has had to deviate from our standard protocols to be able to process the sample and provide a result. Where applicable the accreditation has been removed and this should be taken into consideration when utilising the data.
B	The QC associated with this result has not wholly met the QMS requirements, the accreditation has therefore been removed. However, the Laboratory has confidence in the performance of the method as a whole and that the integrity of the data has not been significantly compromised.
C	Due to matrix interference, the internal standard and/or surrogate has not met the QMS requirements. This should be taken into consideration when utilising the data.
D	A non-standard volume or mass has been used for this test which has resulted in a raised detection limit.
E	Due to the parameter value being beyond our calibration range (and following the maximum size of dilution allowed, where applicable), the result cannot be quantified and as such the result will appear as a greater than symbol (>) with the accreditation removed. This data should be used for indicative purposes only.
F	Based on the sample history, appearance and smell a dilution was applied prior to testing. Unfortunately, the result is either above (>) or below (<) our calibration range. Results above our calibration range have accreditation removed. The data should be used for indicative purposes only.
G	The day 5 oxygen reading was below the capability of the instrument to detect, and therefore the calculated BOD has been reported unaccredited for guidance purposes only.



Project Number: [24040692](#)

Client: Geotechnical Engineering Limited
Date Issued: 17/04/2024
Project Name: 37977 - Falmouth Docks Development

[HWOL Acronym Key](#)

Acronym	Description
HS	Headspace Analysis
EH	Extractable Hydrocarbons - i.e everything extracted by the solvent(s)
CU	Clean up - e.g. by florisil, silica gel
1D	GC - Single coil gas chromatography
Total	Aliphatics & Aromatics
AL	Aliphatics only
AR	Aromatics only
+	Operator to indicate cumulative e.g. EH_CU+HS_1D_Total

[Additional Information](#)

This report refers to samples as received. SOCOTEC UK Ltd takes no responsibility for accuracy or competence of sampling by others.

Results within this report relate only to the samples tested.

The accreditation codes are as follows:

U = UKAS accredited analysis
M = MCERT accredited analysis
N = Unaccredited analysis

Any accreditation marked with ^ signify results are reported on a dry weight basis of 35° c.

All Air Dried and Ground Samples (ADG) are oven dried at less than 35° c.

This report shall not be reproduced except in full, without written approval of the laboratory.

Opinions and interpretations given are outside the scope of our UKAS accreditation.

Any results marked with * are not covered by our scope of UKAS accreditation. If applicable, further report notes have been added.

Any solid samples where the Major Constituents are not one of the following (Sand, Silt, Clay, Made Ground) are not one of our accredited matrix types.

Any samples marked with a tick in the deviant table is deviant for the specific reason.

Any samples reported as IS, NA, ND mean the following:

IS = Insufficient Sample to complete analysis
NA = Sample is not amenable for the required analysis
ND = Results cannot be determined

Items listed with a 'SUB' method code prefix have been carried out by another SOCOTEC department or by an external subcontracted laboratory.

Our deviating sample report does not include deviancy information for Subcontracted analysis. Please see the report from the subcontracted lab for information regarding any deviancies for this analysis.

Summaries of analysis methods are available upon request.

End of Certificate of Analysis

Certificate of Analysis

Client: Geotechnical Engineering Limited

Project: 24040697

Quote: BEC240334421 V1.2

Project Ref: 37977

Site: Falmouth Docks Development

Contact: Mark Jones

Address: Centurion House,
Olympus Park, Quedgeley
Gloucester
GL2 4NF

E-Mail: mark.jones@geoeng.co.uk

Phone: 07748 775522

No. Samples Received: 2

Date Received: 09/04/2024

Analysis Completed: 17/04/2024

Date Issued: 17/04/2024

Report Type: Version 01

This report supersedes any versions previously issued by the laboratory



Reported by Customer Service Co-Ordinator
Julie Dickinson
01283 554496
Julie.Dickinson@socotec.co.uk



Project Number: [24040697](#)

Client: Geotechnical Engineering Limited

Date Issued: 17/04/2024

Project Name: 37977 - Falmouth Docks Development

Samples Analysed

<u>Text ID</u>	<u>Sample Reference</u>	<u>Sampling Date</u>	<u>Sample Type</u>	<u>Sample Description</u>
24040697-001	VC-7A-1-ES-0.00-2.20	26/03/2024 00:00:00	SOLID	Clay Sample
24040697-002	VC-16-1-ES-0.00-5.10	26/03/2024 00:00:00	SOLID	Clay Sample

Analysis Results

SOCOTEC Sample ID:	24040697-001	24040697-002
Sampling Date:	26/03/2024 00:00	26/03/2024 00:00
Customer ID:	VC-7A-1-ES-0.00-2.20	VC-16-1-ES-0.00-5.10

Method Code	Analysis	MDL	Accred.		
CLANDPREP	Total Moisture at 35°C	0.1 %	N	13.5	36.1
	Major Constituents	-	N	CLAY	CLAY
	Minor Constituents	-	N	Gravel	Gravel
	Miscellaneous Constituents	-	N	n/a	n/a
	Colour of Material	-	N	Brown	Brown
Leachate Prep CEN 10:1	Equivalent Weight of Dry Material (kg)	kg	N	0.090	0.090
	Fraction above 4mm (%)	%	N	0	0
	Fraction of non-crushable material (%)	%	N	0	0
	Volume of Water for 10:1 Leach (ltr)	l	N	0.877	0.851
	Weight of Sample Leached (kg)	kg	N	0.113	0.139
PHSOIL	pH (2.5:1 extraction)	1 pH units	M ^A	8.3	8.0
ANC	ANC	0.04 mol/kg	N ^A	0.64	2.73
LOI(%MM)	LOI @ 450°C	0.2 % m/m	N ^A	2.5	7.6
WSLM59	Total Organic Carbon	0.02 % m/m	U ^A	0.26	1.60
BTEXHSA	Benzene (HS_1D_AR)	0.01 mg/kg	M ^A	<0.012	<0.016
	Toluene (HS_1D_AR)	0.01 mg/kg	M ^A	<0.012	<0.016
	Ethylbenzene (HS_1D_AR)	0.01 mg/kg	M ^A	<0.012	<0.016
	m/p-Xylene (HS_1D_AR)	0.02 mg/kg	M ^A	<0.023	<0.031
	o-Xylene (HS_1D_AR)	0.01 mg/kg	M ^A	<0.012	<0.016
	Total BTEX (HS_1D_AR)	0.06 mg/kg	M ^A	<0.069	<0.094
TPHFIDUS (Aliphatic)	Total TPH >C8-C40 (Aliphatic) (EH_CU_1D_AL)	20 mg/kg	U ^A	41.8	74.9
	>C10-C40 (Aliphatic) (EH_CU_1D_AL)	20 mg/kg	U ^A	39.4	71.4
PAHMSUS	Acenaphthene	0.08 mg/kg	M ^A	<0.09	<0.13
	Acenaphthylene	0.08 mg/kg	U ^A	<0.09	<0.13
	Anthracene	0.08 mg/kg	U ^A	<0.09	<0.13
	Benzo[a]anthracene	0.08 mg/kg	M ^A	<0.09	<0.13
	Benzo[a]pyrene	0.08 mg/kg	M ^A	0.10	<0.13
	Benzo[b]fluoranthene	0.08 mg/kg	M ^A	0.11	<0.13
	Benzo[g,h,i]perylene	0.08 mg/kg	M ^A	<0.09	<0.13
	Benzo[k]fluoranthene	0.08 mg/kg	M ^A	<0.09	<0.13
	Chrysene	0.08 mg/kg	M ^A	<0.09	<0.13
	Coronene	0.08 mg/kg	N ^A	<0.09	<0.13
	Dibenzo[a,h]anthracene	0.08 mg/kg	M ^A	<0.09	<0.13
	Fluoranthene	0.08 mg/kg	M ^A	0.11	0.16
	Fluorene	0.08 mg/kg	M ^A	<0.09	<0.13
	Indeno[1,2,3-cd]pyrene	0.08 mg/kg	M ^A	<0.09	<0.13
	Naphthalene	0.08 mg/kg	M ^A	<0.09	<0.13
	Phenanthrene	0.08 mg/kg	M ^A	<0.09	<0.13
	Pyrene	0.08 mg/kg	M ^A	0.12	0.20
	Total PAH 16	1.28 mg/kg	U ^A	1.54	2.11
	Total PAH 17	1.36 mg/kg	N ^A	1.63	2.23
PCBECD	PCB 28	0.005 mg/kg	M ^A	<0.006	<0.008
	PCB 52	0.005 mg/kg	M ^A	<0.006	<0.008
	PCB 101	0.005 mg/kg	M ^A	<0.006	<0.008
	PCB 118	0.005 mg/kg	M ^A	<0.006	<0.008
	PCB 138	0.005 mg/kg	M ^A	<0.006	<0.008
	PCB 153	0.005 mg/kg	M ^A	<0.006	<0.008
	PCB 180	0.005 mg/kg	M ^A	<0.006	<0.008
	Total PCB 7 Congeners	0.035 mg/kg	M ^A	<0.041	<0.055
PHCONDW	pH	1 pH units	N	8.4	8.3
PHCONDW	Conductivity at 25°C	100 µS/cm	N	1800	3850
PHCONDW	TDS as mg/kg	700 mg/kg	N	12200	25700
	TDS as mg/l	70 mg/l	N	1230	2620
TOCW	Leached Organic Carbon	0.4 mg/l	U	2.72	15.1
		2 mg/kg	N	27.1	148
KONENS	Chloride as Cl	1 mg/l	U	454	1070
		10 mg/kg	N	4520	10500
ISEF	Fluoride as F	0.1 mg/l	U	1.2	0.4
		1 mg/kg	N	12	4
SFAP1	Phenol Index	0.05 mg/l	U	<0.05	<0.05
		0.5 mg/kg	N	<0.5	<0.5
ICPMSW (Dissolved)	Antimony as Sb	0.001 mg/l	U	0.009	0.028
		0.01 mg/kg	N	0.09	0.28
ICPMSW (Dissolved)	Arsenic as As	0.001 mg/l	U	0.003	0.003
		0.01 mg/kg	N	0.03	0.03
ICPWATVAR (Dissolved)	Barium as Ba	0.01 mg/l	U	<0.01	0.01
		0.1 mg/kg	N	<0.1	<0.1
ICPMSW (Dissolved)	Cadmium as Cd	0.00002 mg/l	U	<0.00002	0.00004
		0.0002 mg/kg	N	<0.0002	0.0004
ICPMSW (Dissolved)	Total Chromium as Cr	0.001 mg/l	U	<0.001	<0.001
		0.01 mg/kg	N	<0.01	<0.01
ICPMSW (Dissolved)	Copper as Cu	0.001 mg/l	U	0.003	<0.001
		0.01 mg/kg	N	0.03	<0.01
ICPMSW (Dissolved)	Lead as Pb	0.001 mg/l	U	<0.001	<0.001
		0.01 mg/kg	N	<0.01	<0.01
ICPMSW (Dissolved)	Mercury as Hg	0.00003 mg/l	U	<0.00003	<0.00003
		0.0003 mg/kg	N	<0.0003	<0.0003
ICPMSW (Dissolved)	Molybdenum as Mo	0.001 mg/l	U	0.038	0.096
		0.01 mg/kg	N	0.38	0.94
ICPMSW (Dissolved)	Nickel as Ni	0.001 mg/l	U	<0.001	<0.001
		0.01 mg/kg	N	<0.01	<0.01
ICPMSW (Dissolved)	Selenium as Se	0.001 mg/l	U	<0.001	<0.001



Project Number: 24040697

Client: Geotechnical Engineering Limited
Date Issued: 17/04/2024
Project Name: 37977 - Falmouth Docks Development



Analysis Results

		SOCOTEC Sample ID:		24040697-001	24040697-002
		Sampling Date:		26/03/2024 00:00	26/03/2024 00:00
		Customer ID:		VC-7A-1-ES-0.00-2.20	VC-16-1-ES-0.00-5.10
Method Code	Analysis	MDL	Accred.		
ICPMSW (Dissolved)	Selenium as Se	0.01 mg/kg	N	<0.01	<0.01
ICPWATVAR (Dissolved)	Total Sulphur as SO4	3 mg/l	U	135	178
		30 mg/kg	N	1340	1750
ICPMSW (Dissolved)	Zinc as Zn	0.002 mg/l	U	0.002	<0.002
		0.02 mg/kg	N	<0.02	<0.02

10:1 Cumulative Amount Leached: ☐ 1st Stage Leachate Results: ☐

Client Name: Geotechnical Engineering Limited
 Lab Sample ID: 24040697-001
 Sample ID: VC-7A-1-ES-0.00-2.20
 Site Name: 37977 - Falmouth Docks Development

Leachate Preparation Data

Weight of Sample (kg)	0.113	Moisture content @ 105°C (%)	20.2
Equivalent weight dried @ 105°C (kg)	0.090	Volume of Water required for 10:1 stage (l)	0.877
Fraction of sample above 4mm (%)	0	Fraction of non-crushable material (%)	0

Note: The >4mm fraction is crushed using a disc mill

Solid Sample Results

Method Code	Analysis	Result	Accred.	Landfill Waste Acceptance Criteria Limit Values		
				Inert Waste Landfill	Stable Non-Reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
WSLM59	Total Organic Carbon (% m/m)	0.26	U	3	5	6
LOI(%MM)	Loss on Ignition (% m/m)	2.5	N			10
BTEXHSA	Sum of BTEX (mg/kg) (HS_1D_AR)	<0.069	M	6		
PCBECD	Sum of 7 Congener PCBs (mg/kg)	<0.041	M	1		
TPHFIDUS (Aliphatic)	>C10-C40 Aliphatic (mg/kg) (EH_CU_1D_AL)	39.4	U	500		
PAHMSUS	Sum of 17 PAHs (mg/kg)	1.63	N	100		
PHSOIL	pH (pH units)	8.3	M		>6	
ANC	Acid Neutralisation Capacity (mol/kg)	0.64	N		To be evaluated	To be evaluated

10:1 Cumulative Leachate Results

Method Code	Analysis	Result	Accred.	Landfill Waste Acceptance Criteria Limit Values		
				Inert Waste Landfill	Stable Non-Reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
PHCONDW	pH (pH units)	8.4	N			
PHCONDW	Conductivity (µS/cm)	1800	N			
ICPMSW (Dissolved)	Antimony (mg/kg)	0.09	N	0.06	0.7	5
ICPMSW (Dissolved)	Arsenic (mg/kg)	0.03	N	0.5	2	25
ICPWATVAR (Dissolv	Barium (mg/kg)	<0.1	N	20	100	300
ICPMSW (Dissolved)	Cadmium (mg/kg)	<0.0002	N	0.04	1	5
ICPMSW (Dissolved)	Chromium (mg/kg)	<0.01	N	0.5	10	70
ICPMSW (Dissolved)	Copper (mg/kg)	0.03	N	2	50	100
ICPMSW (Dissolved)	Lead (mg/kg)	<0.01	N	0.5	10	50
ICPMSW (Dissolved)	Mercury (mg/kg)	<0.0003	N	0.01	0.2	2
ICPMSW (Dissolved)	Molybdenum (mg/kg)	0.38	N	0.5	10	30
ICPMSW (Dissolved)	Nickel (mg/kg)	<0.01	N	0.4	10	40
ICPMSW (Dissolved)	Selenium (mg/kg)	<0.01	N	0.1	0.5	7
ICPMSW (Dissolved)	Zinc (mg/kg)	<0.02	N	4	50	200
KONENS	Chloride (mg/kg)	4520	N	800	15000	25000
ISEF	Fluoride (mg/kg)	12	N	10	150	500
ICPWATVAR (Dissolv	Sulphate as SO4 (mg/kg)	1340	N	1000	20000	50000
PHCONDW	Total Dissolved Solids (mg/kg)	12200	N	4000	60000	100000
SFAPI	Phenol Index (mg/kg)	<0.5	N	1		
TOCW	Dissolved Organic Carbon (mg/kg)	27.1	N	500	800	1000

Accreditation status of M denotes MCERT, U denotes UKAS, N denotes no accreditation for the specific result

Landfill Waste Acceptance Criteria limit values are taken from 2003/33/EC: Council Decision and are correct as of 8th January 2024

Conductivity and pH results are reported from the leached sample, not calculated into the cumulative solid sample

Client Name: Geotechnical Engineering Limited
 Lab Sample ID: 24040697-002
 Sample ID: VC-16-1-ES-0.00-5.10
 Site Name: 37977 - Falmouth Docks Development

Leachate Preparation Data

Weight of Sample (kg)	0.139	Moisture content @ 105°C (%)	35.2
Equivalent weight dried @ 105°C (kg)	0.090	Volume of Water required for 10:1 stage (l)	0.851
Fraction of sample above 4mm (%)	0	Fraction of non-crushable material (%)	0

Note: The >4mm fraction is crushed using a disc mill

Solid Sample Results

				Landfill Waste Acceptance Criteria Limit Values		
Method Code	Analysis	Result	Accred.	Inert Waste Landfill	Stable Non-Reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
WSLM59	Total Organic Carbon (% m/m)	1.60	U	3	5	6
LOI(%MM)	Loss on Ignition (% m/m)	7.6	N			10
BTEXHSA	Sum of BTEX (mg/kg) (HS_1D_AR)	<0.094	M	6		
PCBECD	Sum of 7 Congener PCBs (mg/kg)	<0.055	M	1		
TPHFIDUS (Aliphatic)	>C10-C40 Aliphatic (mg/kg) (EH_CU_1D_AL)	71.4	U	500		
PAHMSUS	Sum of 17 PAHs (mg/kg)	2.23	N	100		
PHSOIL	pH (pH units)	8.0	M		>6	
ANC	Acid Neutralisation Capacity (mol/kg)	2.73	N		To be evaluated	To be evaluated

10:1 Cumulative Leachate Results

				Landfill Waste Acceptance Criteria Limit Values		
Method Code	Analysis	Result	Accred.	Inert Waste Landfill	Stable Non-Reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
PHCONDW	pH (pH units)	8.3	N			
PHCONDW	Conductivity (µS/cm)	3850	N			
ICPMSW (Dissolved)	Antimony (mg/kg)	0.28	N	0.06	0.7	5
ICPMSW (Dissolved)	Arsenic (mg/kg)	0.03	N	0.5	2	25
ICPWATVAR (Dissolv	Barium (mg/kg)	<0.1	N	20	100	300
ICPMSW (Dissolved)	Cadmium (mg/kg)	0.0004	N	0.04	1	5
ICPMSW (Dissolved)	Chromium (mg/kg)	<0.01	N	0.5	10	70
ICPMSW (Dissolved)	Copper (mg/kg)	<0.01	N	2	50	100
ICPMSW (Dissolved)	Lead (mg/kg)	<0.01	N	0.5	10	50
ICPMSW (Dissolved)	Mercury (mg/kg)	<0.0003	N	0.01	0.2	2
ICPMSW (Dissolved)	Molybdenum (mg/kg)	0.94	N	0.5	10	30
ICPMSW (Dissolved)	Nickel (mg/kg)	<0.01	N	0.4	10	40
ICPMSW (Dissolved)	Selenium (mg/kg)	<0.01	N	0.1	0.5	7
ICPMSW (Dissolved)	Zinc (mg/kg)	<0.02	N	4	50	200
KONENS	Chloride (mg/kg)	10500	N	800	15000	25000
ISEF	Fluoride (mg/kg)	4	N	10	150	500
ICPWATVAR (Dissolv	Sulphate as SO4 (mg/kg)	1750	N	1000	20000	50000
PHCONDW	Total Dissolved Solids (mg/kg)	25700	N	4000	60000	100000
SFAPI	Phenol Index (mg/kg)	<0.5	N	1		
TOCW	Dissolved Organic Carbon (mg/kg)	148	N	500	800	1000

Accreditation status of M denotes MCERT, U denotes UKAS, N denotes no accreditation for the specific result

Landfill Waste Acceptance Criteria limit values are taken from 2003/33/EC: Council Decision and are correct as of 8th January 2024

Conductivity and pH results are reported from the leached sample, not calculated into the cumulative solid sample

Deviating Sample Report

			Incorrect Container	Incorrect Label	Headspace	Incorrect/No Preservative	No Sampling Date	Holding Time
<u>Sample Reference</u>	<u>Text ID</u>	<u>Method Code</u>						
VC-7A-1-ES-0.00-2.20	24040697-001	BTEXHSA						✓
VC-7A-1-ES-0.00-2.20	24040697-001	PHSOIL						✓
VC-16-1-ES-0.00-5.10	24040697-002	BTEXHSA						✓
VC-16-1-ES-0.00-5.10	24040697-002	PHSOIL						✓

Analysis Method

<u>Method Code</u>	<u>Method Description</u>	<u>Analysis Method</u>
ANC	ANC: Acid Neutralisation Capacity (mol/kg)	Air Dried & Ground
BTEXHSA	BTEX for WAC by GCFID	As Received
CLANDPREP	CLand Prep and Dry Weight Correction to 35°C	As Received
CLANDPREP	Solid Material Description	As Received
ICPSW (Dissolved)	Antimony (Diss.) in Lab Leachate by ICPMS	Filtered
ICPSW (Dissolved)	Antimony in Solids (BSEN 12457-2)	Filtered
ICPSW (Dissolved)	Arsenic (Diss.) in Lab Leachate by ICPMS	Filtered
ICPSW (Dissolved)	Arsenic in Solids (BSEN 12457-2)	Filtered
ICPSW (Dissolved)	Cadmium (Diss.) in Lab Leachate by ICPMS	Filtered
ICPSW (Dissolved)	Cadmium in Solids (BSEN 12457-2)	Filtered
ICPSW (Dissolved)	Chromium (Diss.) in Lab Leachate by ICPMS	Filtered
ICPSW (Dissolved)	Chromium in Solids (BSEN 12457-2)	Filtered
ICPSW (Dissolved)	Copper (Diss.) in Lab Leachate by ICPMS	Filtered
ICPSW (Dissolved)	Copper in Solids (BSEN 12457-2)	Filtered
ICPSW (Dissolved)	Lead (Diss.) in Lab Leachate by ICPMS	Filtered
ICPSW (Dissolved)	Lead in Solids (BSEN 12457-2)	Filtered
ICPSW (Dissolved)	Mercury (Diss.) in Lab Leachate by ICPMS	Filtered
ICPSW (Dissolved)	Mercury in Solids (BSEN 12457-2)	Filtered
ICPSW (Dissolved)	Molybdenum (Diss.) in Lab Leachate by ICPMS	Filtered
ICPSW (Dissolved)	Molybdenum in Solids (BSEN 12457-2)	Filtered
ICPSW (Dissolved)	Nickel (Diss.) in Lab Leachate by ICPMS	Filtered
ICPSW (Dissolved)	Nickel in Solids (BSEN 12457-2)	Filtered
ICPSW (Dissolved)	Selenium (Diss.) in Lab Leachate by ICPMS	Filtered
ICPSW (Dissolved)	Selenium in Solids (BSEN 12457-2)	Filtered
ICPSW (Dissolved)	Zinc (Diss.) in Lab Leachate by ICPMS	Filtered
ICPSW (Dissolved)	Zinc in Solids (BSEN 12457-2)	Filtered
ICPWATVAR (Dissolved)	Barium (Diss.) in Lab Leachate by ICPOES	Filtered
ICPWATVAR (Dissolved)	Barium in Solids (BSEN 12457-2)	Filtered
ICPWATVAR (Dissolved)	Total Sulphur as SO ₄ (Diss.) in Lab Leachate	Filtered
ICPWATVAR (Dissolved)	Total Sulphur as SO ₄ in Solids (BSEN 12457-2)	Filtered
ISEF	Fluoride by ISE	Filtered
ISEF	Fluoride in Solids (BSEN 12457-2)	Filtered
KONENS	Chloride by Colorimetry	Filtered
KONENS	Chloride in Solids (BSEN 12457-2)	Filtered
Leachate Prep CEN 10:1	WAC Leachate Prep, 1-Stage 10:1 (BSEN 12457-2)	As Received
LOI(%MM)	LOI: Loss on Ignition @ 450°C	Air Dried & Ground



Project Number: [24040697](#)

Client: Geotechnical Engineering Limited
Date Issued: 17/04/2024
Project Name: 37977 - Falmouth Docks Development

PAHMSUS	17 PAHs (inc. Coronene) for WAC by GCMS	As Received
PCBECD	PCBs, ICES 7 Congeners inc. Total Calculation	As Received
PHCONDW	Electrical Conductivity @ 25°C	Filtered
PHCONDW	pH	Filtered
PHCONDW	TDS: Total Dissolved Solids (Calc)	Filtered
PHCONDW	Total Dissolved Solids in Solids (BSEN 12457-2)	Filtered
PHSOIL	)	
SFAP1	pH (2.5:1)	As Received
SFAP1	Phenol Index (Total) by SFA	Filtered
TOCW	Phenol Index in Solids (BSEN 12457-2)	Filtered
TOCW	Leached Organic Carbon in Solids (BSEN 12457-2)	Filtered
TPHFIDUS (Aliphatic)	LOC: Leached Organic Carbon	Filtered
WSLM59	TPH (>C8-C40) Aliphatic and Carbon Band (>C 10-C40)	As Received
	TOC: Total Organic Carbon	Air Dried & Ground

Result Report Notes

Letters alongside results signify that the result has associated report notes.
The report notes are as follows:

<u>Letter</u>	<u>Note</u>
A	Due to the matrix of the sample the laboratory has had to deviate from our standard protocols to be able to process the sample and provide a result. Where applicable the accreditation has been removed and this should be taken into consideration when utilising the data.
B	The QC associated with this result has not wholly met the QMS requirements, the accreditation has therefore been removed. However, the Laboratory has confidence in the performance of the method as a whole and that the integrity of the data has not been significantly compromised.
C	Due to matrix interference, the internal standard and/or surrogate has not met the QMS requirements. This should be taken into consideration when utilising the data.
D	A non-standard volume or mass has been used for this test which has resulted in a raised detection limit.
E	Due to the parameter value being beyond our calibration range (and following the maximum size of dilution allowed, where applicable), the result cannot be quantified and as such the result will appear as a greater than symbol (>) with the accreditation removed. This data should be used for indicative purposes only.
F	Based on the sample history, appearance and smell a dilution was applied prior to testing. Unfortunately, the result is either above (>) or below (<) our calibration range. Results above our calibration range have accreditation removed. The data should be used for indicative purposes only.
G	The day 5 oxygen reading was below the capability of the instrument to detect, and therefore the calculated BOD has been reported unaccredited for guidance purposes only.

HWOL Acronym Key

<u>Acronym</u>	<u>Description</u>
HS	Headspace Analysis
EH	Extractable Hydrocarbons - i.e everything extracted by the solvent(s)
CU	Clean up - e.g. by florisil, silica gel
1D	GC - Single coil gas chromatography
Total	Aliphatics & Aromatics
AL	Aliphatics only
AR	Aromatics only
+	Operator to indicate cumulative e.g. EH_CU+HS_1D_Total



Project Number: [24040697](#)

Client: Geotechnical Engineering Limited

Date Issued: 17/04/2024

Project Name: 37977 - Falmouth Docks Development

Additional Information

This report refers to samples as received. SOCOTEC UK Ltd takes no responsibility for accuracy or competence of sampling by others.

Results within this report relate only to the samples tested.

The accreditation codes are as follows:

U = UKAS accredited analysis
M = MCERT accredited analysis
N = Unaccredited analysis

Any accreditation marked with ^ signify results are reported on a dry weight basis of 35° c.

All Air Dried and Ground Samples (ADG) are oven dried at less than 35° c.

This report shall not be reproduced except in full, without written approval of the laboratory.

Opinions and interpretations given are outside the scope of our UKAS accreditation.

Any results marked with * are not covered by our scope of UKAS accreditation. If applicable, further report notes have been added.

Any solid samples where the Major Constituents are not one of the following (Sand, Silt, Clay, Made Ground) are not one of our accredited matrix types.

Any samples marked with a tick in the deviant table is deviant for the specific reason.

Any samples reported as IS, NA, ND mean the following:

IS = Insufficient Sample to complete analysis
NA = Sample is not amenable for the required analysis
ND = Results cannot be determined

Items listed with a 'SUB' method code prefix have been carried out by another SOCOTEC department or by an external subcontracted laboratory.

Our deviating sample report does not include deviancy information for Subcontracted analysis. Please see the report from the subcontracted lab for information regarding any deviancies for this analysis.

Summaries of analysis methods are available upon request.

End of Certificate of Analysis

Certificate of Analysis

Issuing Laboratory SOCOTEC, Marine Department, Advanced Chemistry and Research, Etwall House, Bretby Business Park, Ashby Road, Burton-upon-Trent DE15 0YZ



Test Report ID MAR02246

Issue Version: 1

Customer: Geotechnical Engineering Ltd, Centurion House, Olympus Park, Quedgley, Gloucester, GL2 4NF

Customer Reference: Falmouth Harbour - MMO Testing

Date Sampled: 19-22-Mar-24

Date Samples Received: 25-Mar-24

Test Report Date: 24-Apr-24

Condition of samples: Cold Satisfactory

Opinions and Interpretations expressed herein are outside the scope of our UKAS accreditation
The results reported relate only to the sample tested
The results apply to the sample as received

JM Colbourne

Authorised by: Jane Colbourne

Position: Customer Service Specialist



1252

MAR02246
This test report shall not be reproduced except in full, without written approval of the laboratory

Certificate of Analysis

Issuing Laboratory SOCOTEC, Marine Department, Advanced Chemistry and Research, Etwall House, Bretby Business Park, Ashby Road, Burton-upon-Trent DE15 0YZ



Test Report ID MAR02246
Issue Version 1
Customer Reference Falmouth Harbour - MMO Testing

		Units	% M/M	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)
		Method No	WSLM59*	*SUB_01	*SUB_01	*SUB_01	*SUB_01	*SUB_01	*SUB_01
		Accreditation	UKAS/MMO	MMO	MMO	MMO	MMO	MMO	MMO
			Total Organic Carbon	45mm	31.5mm	22.4mm	16mm	11.2mm	8mm
Client Reference:	SOCOTEC Ref:	Matrix	-	-5.5	-5.0	-4.5	-4.0	-3.5	-3.0
VC-02 0.05-0.15	MAR02246.001	Sediment	0.23	0.00	0.00	0.00	0.00	0.00	0.00
VC-02 0.90-1.00	MAR02246.002	Sediment	0.16	0.00	0.00	0.00	0.00	9.28	9.04
VC-03 0.00-0.10	MAR02246.003	Sediment	2.53	0.00	0.00	0.00	0.00	0.00	0.00
VC-03 1.00-1.10	MAR02246.004	Sediment	3.35	0.00	0.00	0.00	0.00	0.03	0.63
VC-03 2.00-2.10	MAR02246.005	Sediment	4.01	0.00	0.00	0.00	0.00	0.00	0.82
VC-03 3.00-3.10	MAR02246.006	Sediment	0.32	0.00	0.00	0.00	8.54	18.12	11.86
VC-06 0.00-0.05	MAR02246.007	Sediment	0.90	0.00	0.00	0.00	0.00	0.00	0.94
VC-06 1.00-1.10	MAR02246.008	Sediment	0.19	0.00	0.00	8.51	4.56	3.52	4.72
VC-06 2.00-2.10	MAR02246.009	Sediment	0.11	0.00	0.00	29.35	2.36	2.25	11.45
VC-06 2.55-2.65	MAR02246.010	Sediment	0.12	0.00	0.00	59.89	0.00	0.00	3.60
VC-07 0.00-0.10	MAR02246.011	Sediment	1.68	0.00	0.00	0.00	0.00	2.15	0.00
VC-07 1.00-1.10	MAR02246.012	Sediment	0.22	0.00	0.00	19.08	10.52	7.08	2.61
VC-07 1.20-1.30	MAR02246.013	Sediment	0.18	0.00	0.00	16.25	13.66	7.07	6.14
VC-09 0.00-0.10	MAR02246.014	Sediment	2.26	0.00	11.60	0.00	0.00	0.65	2.84
VC-09 1.00-1.10	MAR02246.015	Sediment	1.64	0.00	0.00	0.00	0.00	0.00	0.00
VC-09 2.00-2.10	MAR02246.016	Sediment	1.80	0.00	0.00	0.00	0.00	0.00	0.00
VC-09 3.00-3.10	MAR02246.017	Sediment	1.83	0.00	0.00	0.00	0.00	0.50	0.56
VC-09 4.00-4.10	MAR02246.018	Sediment	1.38	0.00	0.00	0.00	0.00	0.00	0.00
VC-09 5.00-5.10	MAR02246.019	Sediment	2.13	0.00	0.00	28.69	12.09	5.72	4.06
VC-11 0.00-0.10	MAR02246.020	Sediment	0.21	0.00	0.00	0.00	0.77	2.05	2.12
VC-11 1.00-1.10	MAR02246.021	Sediment	1.61	0.00	0.00	0.00	0.00	0.00	0.00
VC-11 2.00-2.10	MAR02246.022	Sediment	0.80	0.00	0.00	0.00	0.00	0.00	0.00
VC-11 3.00-3.10	MAR02246.023	Sediment	1.81	0.00	0.00	0.00	0.00	0.00	0.00
VC-11 4.00-4.10	MAR02246.024	Sediment	1.89	0.00	0.00	0.00	0.00	0.00	0.00
VC-11 5.00-5.10	MAR02246.025	Sediment	2.52	0.00	0.00	0.00	0.00	0.00	0.00
VC-11 5.30-5.37	MAR02246.026	Sediment	1.81	0.00	0.00	0.00	0.00	0.00	0.00
VC-22 0.00-0.10	MAR02246.027	Sediment	1.54	0.00	0.00	0.00	0.00	0.88	1.01
VC-22 1.00-1.10	MAR02246.028	Sediment	0.16	0.00	0.00	0.00	6.75	1.30	0.00
VC-24 0.00-0.10	MAR02246.029	Sediment	0.86	0.00	0.00	37.22	0.00	0.00	3.01
VC-24 1.00-1.10	MAR02246.030	Sediment	0.26	0.00	0.00	0.00	0.00	0.00	0.00
VC-24 1.90-2.00	MAR02246.031	Sediment	0.25	0.00	22.70	0.00	0.00	2.51	1.85

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Certificate of Analysis



Issuing Laboratory SOCOTEC, Marine Department, Advanced Chemistry and Research, Etwall House, Bretby Business Park, Ashby Road, Burton-upon-Trent DE15 0YZ

Test Report ID MAR02246
Issue Version 1
Customer Reference Falmouth Harbour - MMO Testing

		Units	% M/M	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)
		Method No	WSLM59*	*SUB_01	*SUB_01	*SUB_01	*SUB_01	*SUB_01	*SUB_01
		Accreditation	UKAS/MMO	MMO	MMO	MMO	MMO	MMO	MMO
			Total Organic Carbon	45mm	31.5mm	22.4mm	16mm	11.2mm	8mm
Client Reference:	SOCOTEC Ref:	Matrix	-	-5.5	-5.0	-4.5	-4.0	-3.5	-3.0
VC-25 0.00-0.10	MAR02246.032	Sediment	1.74	0.00	0.00	0.00	0.00	0.00	0.37
VC-25 1.00-1.10	MAR02246.033	Sediment	2.45	0.00	0.00	0.00	0.00	0.00	0.00
VC-25 2.00-2.10	MAR02246.034	Sediment	1.76	0.00	0.00	0.00	0.00	0.57	0.18
VC-25 3.00-3.10	MAR02246.035	Sediment	1.99	0.00	0.00	0.00	0.00	0.00	0.00
VC-25 3.90-4.00	MAR02246.036	Sediment	0.16	0.00	0.00	0.00	18.65	11.32	9.52

* See Report Notes

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Test Report ID MAR02246
Issue Version 1
Customer Reference Falmouth Harbour - MMO Testing

		Units	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)
		Method No	*SUB_01	*SUB_01	*SUB_01	*SUB_01	*SUB_01	*SUB_01	*SUB_01
		Accreditation	MMO	MMO	MMO	MMO	MMO	MMO	MMO
			5.6mm	4mm	2.8mm	2mm	1.4mm	1mm	707µm
Client Reference:	SOCOTEC Ref:	Matrix	-2.5	-2.0	-1.5	-1.0	-0.5	0.0	0.5
VC-02 0.05-0.15	MAR02246.001	Sediment	0.00	0.52	0.64	0.69	1.13	1.07	0.00
VC-02 0.90-1.00	MAR02246.002	Sediment	10.44	7.51	6.30	4.19	3.62	3.11	0.00
VC-03 0.00-0.10	MAR02246.003	Sediment	0.00	0.00	0.00	0.02	0.12	0.05	0.24
VC-03 1.00-1.10	MAR02246.004	Sediment	0.38	0.36	0.19	0.03	0.17	0.27	0.97
VC-03 2.00-2.10	MAR02246.005	Sediment	0.00	1.39	0.37	0.32	0.42	0.58	0.00
VC-03 3.00-3.10	MAR02246.006	Sediment	9.77	9.03	5.35	5.36	4.13	3.33	0.07
VC-06 0.00-0.05	MAR02246.007	Sediment	5.82	5.94	6.67	4.83	4.59	3.77	0.00
VC-06 1.00-1.10	MAR02246.008	Sediment	4.14	4.21	4.75	2.76	2.11	2.01	0.00
VC-06 2.00-2.10	MAR02246.009	Sediment	7.56	5.70	5.69	4.80	3.85	3.11	0.00
VC-06 2.55-2.65	MAR02246.010	Sediment	3.97	5.32	3.13	2.30	2.16	1.95	0.03
VC-07 0.00-0.10	MAR02246.011	Sediment	0.66	0.48	2.36	2.27	2.30	2.12	1.63
VC-07 1.00-1.10	MAR02246.012	Sediment	10.18	6.10	5.39	4.19	4.06	3.53	0.21
VC-07 1.20-1.30	MAR02246.013	Sediment	6.76	4.85	5.05	3.65	3.20	2.69	0.05
VC-09 0.00-0.10	MAR02246.014	Sediment	1.35	5.45	9.08	8.33	5.47	2.44	0.00
VC-09 1.00-1.10	MAR02246.015	Sediment	0.00	0.00	0.19	0.10	0.05	0.20	0.00
VC-09 2.00-2.10	MAR02246.016	Sediment	0.00	0.01	0.07	0.23	0.16	0.11	0.00
VC-09 3.00-3.10	MAR02246.017	Sediment	0.39	0.14	0.97	0.66	0.75	0.64	0.00
VC-09 4.00-4.10	MAR02246.018	Sediment	0.40	0.04	0.34	0.35	0.27	0.39	0.00
VC-09 5.00-5.10	MAR02246.019	Sediment	4.21	4.54	6.55	4.31	3.23	2.67	0.07
VC-11 0.00-0.10	MAR02246.020	Sediment	2.58	3.76	6.47	4.26	2.34	1.36	0.00
VC-11 1.00-1.10	MAR02246.021	Sediment	0.57	5.70	7.18	3.92	1.83	0.42	0.00
VC-11 2.00-2.10	MAR02246.022	Sediment	0.40	0.63	1.39	1.20	0.64	0.54	0.00
VC-11 3.00-3.10	MAR02246.023	Sediment	0.05	0.69	1.11	1.61	1.28	0.83	0.00
VC-11 4.00-4.10	MAR02246.024	Sediment	0.00	0.12	0.91	0.52	0.18	0.09	0.00
VC-11 5.00-5.10	MAR02246.025	Sediment	0.00	0.06	0.10	0.20	0.01	0.01	0.01
VC-11 5.30-5.37	MAR02246.026	Sediment	0.11	0.00	0.46	0.64	0.35	0.37	0.18
VC-22 0.00-0.10	MAR02246.027	Sediment	1.57	1.08	3.22	4.67	6.80	8.08	1.67
VC-22 1.00-1.10	MAR02246.028	Sediment	5.32	4.90	7.02	6.12	6.04	5.63	1.24
VC-24 0.00-0.10	MAR02246.029	Sediment	2.57	2.85	3.73	3.08	3.17	2.68	0.42
VC-24 1.00-1.10	MAR02246.030	Sediment	0.00	0.00	0.00	0.03	0.02	0.07	0.00
VC-24 1.90-2.00	MAR02246.031	Sediment	1.11	3.03	2.06	1.30	1.07	0.95	0.00

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Issuing Laboratory SOCOTEC, Marine Department, Advanced Chemistry and Research, Etwall House, Bretby Business Park, Ashby Road, Burton-upon-Trent DE15 0YZ

Test Report ID MAR02246
Issue Version 1
Customer Reference Falmouth Harbour - MMO Testing

		Units	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)
		Method No	*SUB_01	*SUB_01	*SUB_01	*SUB_01	*SUB_01	*SUB_01	*SUB_01
		Accreditation	MMO	MMO	MMO	MMO	MMO	MMO	MMO
			5.6mm	4mm	2.8mm	2mm	1.4mm	1mm	707µm
Client Reference:	SOCOTEC Ref:	Matrix	-2.5	-2.0	-1.5	-1.0	-0.5	0.0	0.5
VC-25 0.00-0.10	MAR02246.032	Sediment	2.20	5.40	15.91	13.70	8.89	3.33	0.00
VC-25 1.00-1.10	MAR02246.033	Sediment	0.00	0.00	0.85	0.38	0.39	0.49	0.00
VC-25 2.00-2.10	MAR02246.034	Sediment	0.14	0.28	0.27	0.34	0.31	0.33	0.00
VC-25 3.00-3.10	MAR02246.035	Sediment	0.17	0.27	0.33	0.30	0.34	0.30	0.00
VC-25 3.90-4.00	MAR02246.036	Sediment	11.69	7.89	6.74	3.93	3.76	2.83	0.03

* See Report Notes

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Test Report ID MAR02246
Issue Version 1
Customer Reference Falmouth Harbour - MMO Testing

		Units	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)
		Method No	*SUB_01	*SUB_01	*SUB_01	*SUB_01	*SUB_01	*SUB_01	*SUB_01
		Accreditation	MMO	MMO	MMO	MMO	MMO	MMO	MMO
			500µm	353.6µm	250µm	176.8µm	125µm	88.39µm	63µm
Client Reference:	SOCOTEC Ref:	Matrix	1.0	1.5	2.0	2.5	3.0	3.5	4.0
VC-02 0.05-0.15	MAR02246.001	Sediment	0.00	0.00	0.03	1.11	3.00	4.57	9.65
VC-02 0.90-1.00	MAR02246.002	Sediment	0.00	0.08	0.45	0.65	1.04	1.97	0.67
VC-03 0.00-0.10	MAR02246.003	Sediment	0.24	2.13	2.47	3.70	8.21	4.80	5.80
VC-03 1.00-1.10	MAR02246.004	Sediment	2.31	2.59	2.10	3.97	7.13	7.43	4.21
VC-03 2.00-2.10	MAR02246.005	Sediment	1.19	3.42	1.61	4.57	5.78	7.46	3.23
VC-03 3.00-3.10	MAR02246.006	Sediment	0.52	0.70	0.23	0.92	1.12	1.64	0.81
VC-06 0.00-0.05	MAR02246.007	Sediment	0.00	0.13	1.19	1.37	2.97	3.37	2.59
VC-06 1.00-1.10	MAR02246.008	Sediment	0.00	0.07	0.55	0.75	0.97	1.85	0.32
VC-06 2.00-2.10	MAR02246.009	Sediment	0.00	0.08	0.57	0.90	1.01	1.56	0.80
VC-06 2.55-2.65	MAR02246.010	Sediment	0.18	0.33	0.25	0.50	0.68	1.14	0.52
VC-07 0.00-0.10	MAR02246.011	Sediment	1.33	2.59	3.27	4.46	9.30	6.88	5.07
VC-07 1.00-1.10	MAR02246.012	Sediment	0.65	0.84	0.58	1.22	1.24	1.73	0.87
VC-07 1.20-1.30	MAR02246.013	Sediment	0.31	0.42	0.47	1.08	0.97	1.89	1.07
VC-09 0.00-0.10	MAR02246.014	Sediment	0.00	0.20	1.37	2.61	2.67	3.71	2.12
VC-09 1.00-1.10	MAR02246.015	Sediment	0.00	0.00	0.02	0.46	2.19	4.93	1.04
VC-09 2.00-2.10	MAR02246.016	Sediment	0.00	0.00	0.07	0.78	2.54	5.26	1.24
VC-09 3.00-3.10	MAR02246.017	Sediment	0.00	0.00	0.35	1.29	3.60	3.41	2.12
VC-09 4.00-4.10	MAR02246.018	Sediment	0.00	0.10	0.85	1.19	3.73	3.00	2.48
VC-09 5.00-5.10	MAR02246.019	Sediment	0.43	0.74	0.34	0.67	0.90	1.35	0.33
VC-11 0.00-0.10	MAR02246.020	Sediment	0.00	0.21	1.02	1.92	2.92	4.60	1.95
VC-11 1.00-1.10	MAR02246.021	Sediment	0.00	0.00	0.02	0.75	2.10	3.55	0.99
VC-11 2.00-2.10	MAR02246.022	Sediment	0.00	0.00	0.01	1.50	6.43	11.93	10.02
VC-11 3.00-3.10	MAR02246.023	Sediment	0.00	0.04	0.13	0.54	4.15	4.08	2.43
VC-11 4.00-4.10	MAR02246.024	Sediment	0.00	0.00	0.00	1.17	5.64	3.31	4.28
VC-11 5.00-5.10	MAR02246.025	Sediment	0.14	0.36	0.18	1.43	5.55	2.32	3.83
VC-11 5.30-5.37	MAR02246.026	Sediment	1.52	2.11	0.63	2.10	5.94	3.72	4.19
VC-22 0.00-0.10	MAR02246.027	Sediment	1.59	2.65	2.28	4.21	7.43	5.06	5.49
VC-22 1.00-1.10	MAR02246.028	Sediment	1.66	1.90	1.52	1.93	3.16	2.62	1.46
VC-24 0.00-0.10	MAR02246.029	Sediment	0.81	1.20	1.24	1.70	3.62	2.68	2.01
VC-24 1.00-1.10	MAR02246.030	Sediment	0.00	0.00	0.00	0.20	1.20	4.69	1.46
VC-24 1.90-2.00	MAR02246.031	Sediment	0.00	0.10	0.66	1.05	1.59	3.50	1.46

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Issuing Laboratory SOCOTEC, Marine Department, Advanced Chemistry and Research, Etwall House, Bretby Business Park, Ashby Road, Burton-upon-Trent DE15 0YZ

Test Report ID MAR02246
Issue Version 1
Customer Reference Falmouth Harbour - MMO Testing

		Units	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)
		Method No	*SUB_01	*SUB_01	*SUB_01	*SUB_01	*SUB_01	*SUB_01	*SUB_01
		Accreditation	MMO	MMO	MMO	MMO	MMO	MMO	MMO
			500µm	353.6µm	250µm	176.8µm	125µm	88.39µm	63µm
Client Reference:	SOCOTEC Ref:	Matrix	1.0	1.5	2.0	2.5	3.0	3.5	4.0
VC-25 0.00-0.10	MAR02246.032	Sediment	0.00	0.09	0.47	0.74	1.42	2.87	0.87
VC-25 1.00-1.10	MAR02246.033	Sediment	0.00	0.19	0.77	1.80	3.58	5.15	2.13
VC-25 2.00-2.10	MAR02246.034	Sediment	0.00	0.05	0.17	0.29	2.08	4.81	0.77
VC-25 3.00-3.10	MAR02246.035	Sediment	0.36	0.63	1.47	1.96	5.21	4.28	2.20
VC-25 3.90-4.00	MAR02246.036	Sediment	0.24	0.55	0.44	0.76	1.02	1.46	0.57

* See Report Notes

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Test Report ID MAR02246
Issue Version 1
Customer Reference Falmouth Harbour - MMO Testing

		Units	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)
		Method No	*SUB_01	*SUB_01	*SUB_01	*SUB_01	*SUB_01	*SUB_01	*SUB_01
		Accreditation	MMO	MMO	MMO	MMO	MMO	MMO	MMO
			44.2µm	31.3µm	22.1µm	15.6µm	11µm	7.8µm	5.5µm
Client Reference:	SOCOTEC Ref:	Matrix	4.5	5.0	5.5	6.0	6.5	7.0	7.5
VC-02 0.05-0.15	MAR02246.001	Sediment	18.52	20.90	13.29	5.95	2.79	2.07	2.03
VC-02 0.90-1.00	MAR02246.002	Sediment	0.27	2.08	2.83	3.04	3.96	4.98	5.57
VC-03 0.00-0.10	MAR02246.003	Sediment	8.46	8.83	8.56	8.15	8.41	8.09	7.01
VC-03 1.00-1.10	MAR02246.004	Sediment	6.64	7.74	7.22	6.43	7.14	7.55	6.98
VC-03 2.00-2.10	MAR02246.005	Sediment	5.38	7.22	7.28	6.61	7.17	7.22	6.69
VC-03 3.00-3.10	MAR02246.006	Sediment	1.04	1.69	1.75	1.71	1.80	2.02	2.10
VC-06 0.00-0.05	MAR02246.007	Sediment	6.78	8.25	6.25	4.77	5.00	4.56	4.10
VC-06 1.00-1.10	MAR02246.008	Sediment	0.80	2.65	2.62	4.01	4.47	4.98	6.44
VC-06 2.00-2.10	MAR02246.009	Sediment	0.39	1.36	1.52	1.53	1.85	2.35	2.55
VC-06 2.55-2.65	MAR02246.010	Sediment	0.50	1.07	1.14	1.21	1.41	1.70	1.79
VC-07 0.00-0.10	MAR02246.011	Sediment	5.62	5.35	5.09	4.81	4.91	5.18	5.27
VC-07 1.00-1.10	MAR02246.012	Sediment	1.14	1.71	1.73	1.72	1.83	2.09	2.25
VC-07 1.20-1.30	MAR02246.013	Sediment	1.02	1.94	2.01	2.03	2.19	2.53	2.73
VC-09 0.00-0.10	MAR02246.014	Sediment	2.06	3.92	4.05	3.86	4.44	4.80	4.55
VC-09 1.00-1.10	MAR02246.015	Sediment	4.79	9.42	9.56	8.86	9.57	9.86	9.26
VC-09 2.00-2.10	MAR02246.016	Sediment	4.71	9.29	9.62	9.00	9.71	9.94	9.17
VC-09 3.00-3.10	MAR02246.017	Sediment	6.78	8.48	8.40	7.85	7.77	8.02	8.05
VC-09 4.00-4.10	MAR02246.018	Sediment	8.54	10.39	9.60	8.35	7.78	7.84	7.70
VC-09 5.00-5.10	MAR02246.019	Sediment	0.94	1.78	1.83	1.81	1.90	2.04	2.01
VC-11 0.00-0.10	MAR02246.020	Sediment	2.36	5.27	5.63	5.72	6.27	7.10	7.30
VC-11 1.00-1.10	MAR02246.021	Sediment	3.28	6.29	6.64	6.90	7.51	8.13	8.18
VC-11 2.00-2.10	MAR02246.022	Sediment	8.42	8.37	6.54	5.35	6.17	5.87	5.31
VC-11 3.00-3.10	MAR02246.023	Sediment	6.14	7.95	8.07	8.01	8.53	8.95	8.73
VC-11 4.00-4.10	MAR02246.024	Sediment	8.61	9.66	9.33	8.62	8.64	8.52	7.87
VC-11 5.00-5.10	MAR02246.025	Sediment	7.94	9.31	9.50	9.29	9.02	8.68	8.16
VC-11 5.30-5.37	MAR02246.026	Sediment	8.44	9.42	9.03	8.17	7.98	7.76	7.06
VC-22 0.00-0.10	MAR02246.027	Sediment	5.79	5.25	4.71	4.31	4.49	4.49	4.02
VC-22 1.00-1.10	MAR02246.028	Sediment	2.97	3.60	3.77	3.79	4.02	4.34	4.41
VC-24 0.00-0.10	MAR02246.029	Sediment	2.84	2.91	2.86	2.72	2.85	3.01	2.92
VC-24 1.00-1.10	MAR02246.030	Sediment	3.64	10.81	10.80	8.68	8.96	7.87	6.94
VC-24 1.90-2.00	MAR02246.031	Sediment	2.47	5.48	5.56	4.73	5.09	4.94	4.63

MAR02246

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Certificate of Analysis



Issuing Laboratory SOCOTEC, Marine Department, Advanced Chemistry and Research, Etwall House, Bretby Business Park, Ashby Road, Burton-upon-Trent DE15 0YZ

Test Report ID MAR02246
Issue Version 1
Customer Reference Falmouth Harbour - MMO Testing

		Units	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)
		Method No	*SUB_01	*SUB_01	*SUB_01	*SUB_01	*SUB_01	*SUB_01	*SUB_01
		Accreditation	MMO	MMO	MMO	MMO	MMO	MMO	MMO
			44.2µm	31.3µm	22.1µm	15.6µm	11µm	7.8µm	5.5µm
Client Reference:	SOCOTEC Ref:	Matrix	4.5	5.0	5.5	6.0	6.5	7.0	7.5
VC-25 0.00-0.10	MAR02246.032	Sediment	1.53	3.82	4.00	3.79	4.35	4.76	4.72
VC-25 1.00-1.10	MAR02246.033	Sediment	4.77	8.56	9.04	8.56	9.20	9.28	8.51
VC-25 2.00-2.10	MAR02246.034	Sediment	4.40	9.14	9.36	8.87	9.00	9.43	9.21
VC-25 3.00-3.10	MAR02246.035	Sediment	7.07	8.99	9.09	8.68	8.68	8.64	8.00
VC-25 3.90-4.00	MAR02246.036	Sediment	0.70	1.46	1.55	1.68	1.97	2.21	2.19

* See Report Notes

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Test Report ID MAR02246
Issue Version 1
Customer Reference Falmouth Harbour - MMO Testing

		Units	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)
		Method No	*SUB_01	*SUB_01	*SUB_01	*SUB_01	*SUB_01	*SUB_01	*SUB_01
		Accreditation	MMO	MMO	MMO	MMO	MMO	MMO	MMO
			3.9µm	2.75µm	1.95µm	1.38µm	0.98µm	0.69µm	0.49µm
Client Reference:	SOCOTEC Ref:	Matrix	8.0	8.5	9.0	9.5	10.0	10.5	11.0
VC-02 0.05-0.15	MAR02246.001	Sediment	1.88	1.61	1.33	1.19	1.12	1.05	0.96
VC-02 0.90-1.00	MAR02246.002	Sediment	4.99	3.57	2.21	1.54	1.27	1.15	1.07
VC-03 0.00-0.10	MAR02246.003	Sediment	5.12	3.17	1.70	0.96	0.71	0.66	0.63
VC-03 1.00-1.10	MAR02246.004	Sediment	5.45	3.63	2.13	1.32	1.00	0.88	0.82
VC-03 2.00-2.10	MAR02246.005	Sediment	5.54	4.05	2.71	1.92	1.51	1.28	1.15
VC-03 3.00-3.10	MAR02246.006	Sediment	1.81	1.28	0.78	0.50	0.38	0.33	0.31
VC-06 0.00-0.05	MAR02246.007	Sediment	3.46	2.69	2.00	1.60	1.37	1.18	1.02
VC-06 1.00-1.10	MAR02246.008	Sediment	6.45	4.67	2.94	2.27	2.02	1.88	1.87
VC-06 2.00-2.10	MAR02246.009	Sediment	2.19	1.53	0.91	0.58	0.44	0.38	0.35
VC-06 2.55-2.65	MAR02246.010	Sediment	1.51	1.04	0.62	0.41	0.33	0.30	0.27
VC-07 0.00-0.10	MAR02246.011	Sediment	4.50	3.17	1.99	1.40	1.17	1.04	0.93
VC-07 1.00-1.10	MAR02246.012	Sediment	1.98	1.41	0.89	0.62	0.49	0.42	0.38
VC-07 1.20-1.30	MAR02246.013	Sediment	2.42	1.75	1.15	0.85	0.71	0.64	0.60
VC-09 0.00-0.10	MAR02246.014	Sediment	3.65	2.50	1.52	0.98	0.76	0.67	0.62
VC-09 1.00-1.10	MAR02246.015	Sediment	7.50	5.32	3.54	2.59	2.13	1.84	1.66
VC-09 2.00-2.10	MAR02246.016	Sediment	7.32	5.16	3.37	2.40	1.96	1.72	1.56
VC-09 3.00-3.10	MAR02246.017	Sediment	6.92	5.01	3.34	2.53	2.20	2.01	1.85
VC-09 4.00-4.10	MAR02246.018	Sediment	6.48	4.62	3.08	2.35	2.02	1.80	1.61
VC-09 5.00-5.10	MAR02246.019	Sediment	1.66	1.18	0.78	0.60	0.52	0.46	0.41
VC-11 0.00-0.10	MAR02246.020	Sediment	6.21	4.38	2.69	1.75	1.34	1.19	1.13
VC-11 1.00-1.10	MAR02246.021	Sediment	6.87	4.81	3.01	2.11	1.76	1.60	1.47
VC-11 2.00-2.10	MAR02246.022	Sediment	4.42	3.30	2.32	1.77	1.50	1.31	1.17
VC-11 3.00-3.10	MAR02246.023	Sediment	7.18	4.97	3.09	2.12	1.75	1.60	1.48
VC-11 4.00-4.10	MAR02246.024	Sediment	6.25	4.29	2.67	1.80	1.44	1.29	1.19
VC-11 5.00-5.10	MAR02246.025	Sediment	6.57	4.49	2.73	1.82	1.49	1.37	1.31
VC-11 5.30-5.37	MAR02246.026	Sediment	5.50	3.73	2.31	1.57	1.27	1.15	1.06
VC-22 0.00-0.10	MAR02246.027	Sediment	3.01	1.90	1.04	0.62	0.49	0.45	0.43
VC-22 1.00-1.10	MAR02246.028	Sediment	3.73	2.64	1.66	1.16	0.96	0.88	0.83
VC-24 0.00-0.10	MAR02246.029	Sediment	2.37	1.61	0.96	0.61	0.47	0.42	0.38
VC-24 1.00-1.10	MAR02246.030	Sediment	6.02	5.00	4.09	3.50	3.05	2.70	2.51
VC-24 1.90-2.00	MAR02246.031	Sediment	4.01	3.13	2.38	2.01	1.79	1.68	1.68

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Issuing Laboratory SOCOTEC, Marine Department, Advanced Chemistry and Research, Etwall House, Bretby Business Park, Ashby Road, Burton-upon-Trent DE15 0YZ

Test Report ID MAR02246
Issue Version 1
Customer Reference Falmouth Harbour - MMO Testing

		Units	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)
		Method No	*SUB_01	*SUB_01	*SUB_01	*SUB_01	*SUB_01	*SUB_01	*SUB_01
		Accreditation	MMO	MMO	MMO	MMO	MMO	MMO	MMO
			3.9µm	2.75µm	1.95µm	1.38µm	0.98µm	0.69µm	0.49µm
Client Reference:	SOCOTEC Ref:	Matrix	8.0	8.5	9.0	9.5	10.0	10.5	11.0
VC-25 0.00-0.10	MAR02246.032	Sediment	4.02	2.95	1.98	1.48	1.25	1.11	1.00
VC-25 1.00-1.10	MAR02246.033	Sediment	6.76	4.77	3.13	2.23	1.81	1.61	1.48
VC-25 2.00-2.10	MAR02246.034	Sediment	7.64	5.41	3.50	2.52	2.11	1.90	1.75
VC-25 3.00-3.10	MAR02246.035	Sediment	6.31	4.30	2.69	1.87	1.53	1.37	1.26
VC-25 3.90-4.00	MAR02246.036	Sediment	1.79	1.22	0.76	0.55	0.47	0.44	0.40

* See Report Notes

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Issue Version 1
Customer Reference Falmouth Harbour - MMO Testing

		Units	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)
		Method No	*SUB_01	*SUB_01	*SUB_01	*SUB_01	*SUB_01	*SUB_01	*SUB_01
		Accreditation	MMO	MMO	MMO	MMO	MMO	MMO	MMO
			0.34µm	0.24µm	0.17µm	0.12µm	0.09µm	0.06µm	0.04µm
Client Reference:	SOCOTEC Ref:	Matrix	11.5	12.0	12.5	13.0	13.5	14.0	14.5
VC-02 0.05-0.15	MAR02246.001	Sediment	0.84	0.71	0.55	0.42	0.27	0.10	0.01
VC-02 0.90-1.00	MAR02246.002	Sediment	0.97	0.81	0.59	0.41	0.24	0.09	0.01
VC-03 0.00-0.10	MAR02246.003	Sediment	0.57	0.46	0.33	0.22	0.13	0.05	0.01
VC-03 1.00-1.10	MAR02246.004	Sediment	0.73	0.60	0.43	0.29	0.17	0.07	0.01
VC-03 2.00-2.10	MAR02246.005	Sediment	1.02	0.83	0.58	0.38	0.21	0.08	0.01
VC-03 3.00-3.10	MAR02246.006	Sediment	0.29	0.25	0.20	0.14	0.09	0.03	0.00
VC-06 0.00-0.05	MAR02246.007	Sediment	0.87	0.71	0.52	0.37	0.23	0.09	0.01
VC-06 1.00-1.10	MAR02246.008	Sediment	1.86	1.64	1.20	0.80	0.45	0.16	0.02
VC-06 2.00-2.10	MAR02246.009	Sediment	0.31	0.26	0.20	0.14	0.09	0.04	0.00
VC-06 2.55-2.65	MAR02246.010	Sediment	0.24	0.20	0.15	0.11	0.06	0.03	0.00
VC-07 0.00-0.10	MAR02246.011	Sediment	0.82	0.68	0.51	0.37	0.22	0.09	0.01
VC-07 1.00-1.10	MAR02246.012	Sediment	0.35	0.30	0.23	0.17	0.10	0.04	0.00
VC-07 1.20-1.30	MAR02246.013	Sediment	0.55	0.47	0.35	0.25	0.15	0.06	0.01
VC-09 0.00-0.10	MAR02246.014	Sediment	0.56	0.46	0.33	0.22	0.13	0.05	0.01
VC-09 1.00-1.10	MAR02246.015	Sediment	1.48	1.24	0.94	0.67	0.41	0.16	0.02
VC-09 2.00-2.10	MAR02246.016	Sediment	1.38	1.16	0.87	0.63	0.39	0.15	0.02
VC-09 3.00-3.10	MAR02246.017	Sediment	1.66	1.38	1.02	0.72	0.43	0.16	0.02
VC-09 4.00-4.10	MAR02246.018	Sediment	1.42	1.19	0.89	0.64	0.39	0.15	0.02
VC-09 5.00-5.10	MAR02246.019	Sediment	0.36	0.30	0.22	0.16	0.10	0.04	0.00
VC-11 0.00-0.10	MAR02246.020	Sediment	1.04	0.87	0.63	0.43	0.24	0.09	0.01
VC-11 1.00-1.10	MAR02246.021	Sediment	1.32	1.11	0.84	0.61	0.37	0.15	0.02
VC-11 2.00-2.10	MAR02246.022	Sediment	1.03	0.86	0.67	0.50	0.31	0.13	0.02
VC-11 3.00-3.10	MAR02246.023	Sediment	1.34	1.13	0.85	0.62	0.38	0.15	0.02
VC-11 4.00-4.10	MAR02246.024	Sediment	1.06	0.89	0.68	0.50	0.31	0.12	0.01
VC-11 5.00-5.10	MAR02246.025	Sediment	1.21	1.04	0.79	0.57	0.35	0.14	0.02
VC-11 5.30-5.37	MAR02246.026	Sediment	0.95	0.81	0.62	0.46	0.28	0.11	0.01
VC-22 0.00-0.10	MAR02246.027	Sediment	0.39	0.33	0.25	0.18	0.11	0.04	0.01
VC-22 1.00-1.10	MAR02246.028	Sediment	0.76	0.66	0.51	0.38	0.24	0.09	0.01
VC-24 0.00-0.10	MAR02246.029	Sediment	0.34	0.28	0.20	0.14	0.08	0.03	0.00
VC-24 1.00-1.10	MAR02246.030	Sediment	2.32	2.00	1.49	1.05	0.62	0.24	0.03
VC-24 1.90-2.00	MAR02246.031	Sediment	1.65	1.45	1.06	0.72	0.41	0.15	0.02

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Test Report ID MAR02246
Issue Version 1
Customer Reference Falmouth Harbour - MMO Testing

		Units	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)
		Method No	*SUB_01	*SUB_01	*SUB_01	*SUB_01	*SUB_01	*SUB_01	*SUB_01
		Accreditation	MMO	MMO	MMO	MMO	MMO	MMO	MMO
			0.34µm	0.24µm	0.17µm	0.12µm	0.09µm	0.06µm	0.04µm
Client Reference:	SOCOTEC Ref:	Matrix	11.5	12.0	12.5	13.0	13.5	14.0	14.5
VC-25 0.00-0.10	MAR02246.032	Sediment	0.89	0.75	0.57	0.41	0.25	0.10	0.01
VC-25 1.00-1.10	MAR02246.033	Sediment	1.35	1.14	0.86	0.62	0.38	0.15	0.02
VC-25 2.00-2.10	MAR02246.034	Sediment	1.57	1.32	0.98	0.69	0.42	0.16	0.02
VC-25 3.00-3.10	MAR02246.035	Sediment	1.12	0.94	0.70	0.51	0.31	0.12	0.02
VC-25 3.90-4.00	MAR02246.036	Sediment	0.36	0.30	0.23	0.16	0.10	0.04	0.00

* See Report Notes

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Test Report ID MAR02246
Issue Version 1
Customer Reference Falmouth Harbour - MMO Testing

		Units	% (at 0.5phi intervals)
		Method No	*SUB_01
		Accreditation	MMO
			<0.04µm
Client Reference:	SOCOTEC Ref:	Matrix	>14.5
VC-02 0.05-0.15	MAR02246.001	Sediment	0.00
VC-02 0.90-1.00	MAR02246.002	Sediment	0.00
VC-03 0.00-0.10	MAR02246.003	Sediment	0.00
VC-03 1.00-1.10	MAR02246.004	Sediment	0.00
VC-03 2.00-2.10	MAR02246.005	Sediment	0.00
VC-03 3.00-3.10	MAR02246.006	Sediment	0.00
VC-06 0.00-0.05	MAR02246.007	Sediment	0.00
VC-06 1.00-1.10	MAR02246.008	Sediment	0.00
VC-06 2.00-2.10	MAR02246.009	Sediment	0.00
VC-06 2.55-2.65	MAR02246.010	Sediment	0.00
VC-07 0.00-0.10	MAR02246.011	Sediment	0.00
VC-07 1.00-1.10	MAR02246.012	Sediment	0.00
VC-07 1.20-1.30	MAR02246.013	Sediment	0.00
VC-09 0.00-0.10	MAR02246.014	Sediment	0.00
VC-09 1.00-1.10	MAR02246.015	Sediment	0.00
VC-09 2.00-2.10	MAR02246.016	Sediment	0.00
VC-09 3.00-3.10	MAR02246.017	Sediment	0.00
VC-09 4.00-4.10	MAR02246.018	Sediment	0.00
VC-09 5.00-5.10	MAR02246.019	Sediment	0.00
VC-11 0.00-0.10	MAR02246.020	Sediment	0.00
VC-11 1.00-1.10	MAR02246.021	Sediment	0.00
VC-11 2.00-2.10	MAR02246.022	Sediment	0.00
VC-11 3.00-3.10	MAR02246.023	Sediment	0.00
VC-11 4.00-4.10	MAR02246.024	Sediment	0.00
VC-11 5.00-5.10	MAR02246.025	Sediment	0.00
VC-11 5.30-5.37	MAR02246.026	Sediment	0.00
VC-22 0.00-0.10	MAR02246.027	Sediment	0.00
VC-22 1.00-1.10	MAR02246.028	Sediment	0.00
VC-24 0.00-0.10	MAR02246.029	Sediment	0.00
VC-24 1.00-1.10	MAR02246.030	Sediment	0.00
VC-24 1.90-2.00	MAR02246.031	Sediment	0.00

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Test Report ID MAR02246
Issue Version 1
Customer Reference Falmouth Harbour - MMO Testing

		Units	% (at 0.5phi intervals)
		Method No	*SUB_01
		Accreditation	MMO
			<0.04µm
Client Reference:	SOCOTEC Ref:	Matrix	>14.5
VC-25 0.00-0.10	MAR02246.032	Sediment	0.00
VC-25 1.00-1.10	MAR02246.033	Sediment	0.00
VC-25 2.00-2.10	MAR02246.034	Sediment	0.00
VC-25 3.00-3.10	MAR02246.035	Sediment	0.00
VC-25 3.90-4.00	MAR02246.036	Sediment	0.00

* See Report Notes

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Test Report ID MAR02246
Issue Version 1
Customer Reference Falmouth Harbour - MMO Testing

		Units	mg/Kg (Dry Weight)							
		Method No	ICPMSS*							
		Limit of Detection	0.5	0.04	0.5	0.5	0.01	0.5	0.5	2
		Accreditation	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO
Client Reference:	SOCOTEC Ref:	Matrix	Arsenic (As)	Cadmium (Cd)	Chromium (Cr)	Copper (Cu)	Mercury (Hg)	Nickel (Ni)	Lead (Pb)	Zinc (Zn)
VC-02 0.05-0.15	MAR02246.001	Sediment	4.5	0.09	26.5	16.8	0.04	25.6	15.6	125
VC-02 0.90-1.00	MAR02246.002	Sediment	3.9	0.05	45.0	31.1	0.04	57.5	20.8	122
VC-03 0.00-0.10	MAR02246.003	Sediment	29.8	0.28	21.0	456	1.51	18.3	107	468
VC-03 1.00-1.10	MAR02246.004	Sediment	38.3	0.27	21.6	300	8.43	25.0	194	494
VC-03 2.00-2.10	MAR02246.005	Sediment	48.5	0.40	21.7	341	17.8	25.0	317	364
VC-03 3.00-3.10	MAR02246.006	Sediment	6.5	0.06	24.8	58.5	0.84	49.6	25.4	434
VC-06 0.00-0.05	MAR02246.007	Sediment	16.7	0.11	15.5	89.7	1.35	19.4	65.2	242
VC-06 1.00-1.10	MAR02246.008	Sediment	9.6	<0.04	20.4	17.7	0.05	24.6	13.2	105
VC-06 2.00-2.10	MAR02246.009	Sediment	5.1	<0.04	27.7	49.8	0.02	50.1	12.4	86.7
VC-06 2.55-2.65	MAR02246.010	Sediment	3.2	<0.04	14.0	30.5	0.02	28.2	10.5	61.7
VC-07 0.00-0.10	MAR02246.011	Sediment	19.4	0.23	19.3	175	10.4	33.7	109	361
VC-07 1.00-1.10	MAR02246.012	Sediment	19.8	0.08	34.4	88.8	0.16	53.8	49.1	146
VC-07 1.20-1.30	MAR02246.013	Sediment	11.4	0.06	15.2	34.3	0.02	27.1	22.9	66.0
VC-09 0.00-0.10	MAR02246.014	Sediment	30.1	0.22	22.0	200	1.53	23.9	145	736
VC-09 1.00-1.10	MAR02246.015	Sediment	11.5	0.23	27.5	13.8	0.05	27.3	13.0	73.2
VC-09 2.00-2.10	MAR02246.016	Sediment	12.1	0.23	31.0	13.9	0.04	28.5	13.8	83.6
VC-09 3.00-3.10	MAR02246.017	Sediment	10.3	0.22	25.8	11.3	0.03	24.8	11.4	70.5
VC-09 4.00-4.10	MAR02246.018	Sediment	8.2	0.13	17.7	8.4	0.02	17.8	8.5	57.5
VC-09 5.00-5.10	MAR02246.019	Sediment	16.6	0.08	13.2	65.5	0.30	12.8	36.8	130
VC-11 0.00-0.10	MAR02246.020	Sediment	17.2	0.11	18.2	17.6	0.02	28.7	14.2	77.0
VC-11 1.00-1.10	MAR02246.021	Sediment	<0.5	<0.04	<0.5	<0.5	<0.01	<0.5	<0.5	5.4
VC-11 2.00-2.10	MAR02246.022	Sediment	<0.5	<0.04	<0.5	<0.5	<0.01	<0.5	<0.5	3.7
VC-11 3.00-3.10	MAR02246.023	Sediment	7.2	0.17	23.5	8.8	0.02	21.1	10.0	58.7
VC-11 4.00-4.10	MAR02246.024	Sediment	8.9	0.30	31.7	12.6	0.03	28.3	14.4	75.1
VC-11 5.00-5.10	MAR02246.025	Sediment	9.5	0.32	28.3	12.8	0.03	26.1	14.8	75.7
VC-11 5.30-5.37	MAR02246.026	Sediment	7.9	0.25	23.5	10.4	0.02	22.5	11.9	65.9
VC-22 0.00-0.10	MAR02246.027	Sediment	19.6	0.17	19.7	260	1.65	25.8	97.5	479
VC-22 1.00-1.10	MAR02246.028	Sediment	9.4	0.08	17.3	48.8	0.48	27.5	42.3	123
VC-24 0.00-0.10	MAR02246.029	Sediment	19.3	0.16	32.5	33.2	0.39	20.9	39.1	129
VC-24 1.00-1.10	MAR02246.030	Sediment	20.1	0.14	36.1	18.5	0.05	19.0	21.0	108
VC-24 1.90-2.00	MAR02246.031	Sediment	20.4	0.26	33.5	27.0	0.04	23.3	24.3	124

MAR02246

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Issuing Laboratory SOCOTEC, Marine Department, Advanced Chemistry and Research, Etwall House, Bretby Business Park, Ashby Road, Burton-upon-Trent DE15 0YZ

Test Report ID MAR02246
Issue Version 1
Customer Reference Falmouth Harbour - MMO Testing

		Units	mg/Kg (Dry Weight)							
		Method No	ICPMSS*							
		Limit of Detection	0.5	0.04	0.5	0.5	0.01	0.5	0.5	2
		Accreditation	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO
Client Reference:	SOCOTEC Ref:	Matrix	Arsenic (As)	Cadmium (Cd)	Chromium (Cr)	Copper (Cu)	Mercury (Hg)	Nickel (Ni)	Lead (Pb)	Zinc (Zn)
VC-25 0.00-0.10	MAR02246.032	Sediment	6.2	0.15	15.7	14.2	0.23	14.2	15.1	63.8
VC-25 1.00-1.10	MAR02246.033	Sediment	5.9	0.27	26.5	12.9	0.04	25.1	14.5	70.7
VC-25 2.00-2.10	MAR02246.034	Sediment	13.9	0.34	33.2	16.5	0.05	33.3	18.0	105
VC-25 3.00-3.10	MAR02246.035	Sediment	11.3	0.27	31.3	15.3	0.06	34.5	16.2	90.7
VC-25 3.90-4.00	MAR02246.036	Sediment	7.1	0.11	18.0	18.5	0.02	30.0	21.3	113
Certified Reference Material SETOC 768 (% Recovery)			102	97	100	111	102	107	98	104
QC Blank			<0.5	<0.04	<0.5	<0.5	<0.01	<0.5	<0.5	<2

* See Report Notes

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Test Report ID MAR02246
Issue Version 1
Customer Reference Falmouth Harbour - MMO Testing

		Units	mg/Kg (Dry Weight)	
		Method No	ASC/SOP/301	
		Limit of Detection	0.001	0.001
		Accreditation	UKAS/MMO	UKAS/MMO
Client Reference:	SOCOTEC Ref:	Matrix	Dibutyltin (DBT)	Tributyltin (TBT)
VC-02 0.05-0.15	MAR02246.001	Sediment	<0.005	<0.005
Certified Reference Material BCR-646 (% Recovery)			80	93
QC Blank			<0.001	<0.001

* See Report Notes

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Test Report ID MAR02246
 Issue Version 1
 Customer Reference Falmouth Harbour - MMO Testing

		Units	mg/Kg (Dry Weight)	
		Method No	ASC/SOP/301	
		Limit of Detection	0.001	0.001
		Accreditation	UKAS/MMO	UKAS/MMO
Client Reference:	SOCOTEC Ref:	Matrix	Dibutyltin (DBT)	Tributyltin (TBT)
VC-02 0.90-1.00	MAR02246.002	Sediment	<0.005	<0.005
VC-03 0.00-0.10	MAR02246.003	Sediment	3.04	17.6
VC-03 1.00-1.10	MAR02246.004	Sediment	0.067	0.506
VC-03 2.00-2.10	MAR02246.005	Sediment	0.013	0.052
VC-03 3.00-3.10	MAR02246.006	Sediment	0.019	0.236
VC-06 0.00-0.05	MAR02246.007	Sediment	0.154	0.500
VC-06 1.00-1.10	MAR02246.008	Sediment	<0.005	<0.005
VC-06 2.00-2.10	MAR02246.009	Sediment	<0.005	<0.005
VC-06 2.55-2.65	MAR02246.010	Sediment	<0.005	<0.005
VC-07 0.00-0.10	MAR02246.011	Sediment	0.147	0.454
Certified Reference Material BCR-646 (% Recovery)			93	100
QC Blank			<0.001	<0.001

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Test Report ID MAR02246
Issue Version 1
Customer Reference Falmouth Harbour - MMO Testing

		Units	mg/Kg (Dry Weight)	
		Method No	ASC/SOP/301	
		Limit of Detection	0.001	0.001
		Accreditation	UKAS/MMO	UKAS/MMO
Client Reference:	SOCOTEC Ref:	Matrix	Dibutyltin (DBT)	Tributyltin (TBT)
VC-07 1.00-1.10	MAR02246.012	Sediment	<0.005	<0.005
VC-07 1.20-1.30	MAR02246.013	Sediment	<0.005	<0.005
VC-09 0.00-0.10	MAR02246.014	Sediment	0.361	1.458
VC-09 1.00-1.10	MAR02246.015	Sediment	<0.005	<0.005
VC-09 2.00-2.10	MAR02246.016	Sediment	<0.005	<0.005
VC-09 3.00-3.10	MAR02246.017	Sediment	<0.005	<0.005
VC-09 4.00-4.10	MAR02246.018	Sediment	<0.005	<0.005
VC-09 5.00-5.10	MAR02246.019	Sediment	<0.005	<0.005
VC-11 0.00-0.10	MAR02246.020	Sediment	0.190	0.811
VC-11 1.00-1.10	MAR02246.021	Sediment	<0.005	<0.005
Certified Reference Material BCR-646 (% Recovery)			101	109
QC Blank			<0.001	<0.001

* See Report Notes

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Test Report ID MAR02246
Issue Version 1
Customer Reference Falmouth Harbour - MMO Testing

		Units	mg/Kg (Dry Weight)	
		Method No	ASC/SOP/301	
		Limit of Detection	0.001	0.001
		Accreditation	UKAS/MMO	UKAS/MMO
Client Reference:	SOCOTEC Ref:	Matrix	Dibutyltin (DBT)	Tributyltin (TBT)
VC-11 2.00-2.10	MAR02246.022	Sediment	<0.005	<0.005
VC-11 3.00-3.10	MAR02246.023	Sediment	<0.005	<0.005
VC-11 4.00-4.10	MAR02246.024	Sediment	<0.005	<0.005
VC-11 5.00-5.10	MAR02246.025	Sediment	<0.005	<0.005
VC-11 5.30-5.37	MAR02246.026	Sediment	<0.005	<0.005
VC-22 0.00-0.10	MAR02246.027	Sediment	1.22	12.2
VC-22 1.00-1.10	MAR02246.028	Sediment	<0.005	0.013
VC-24 0.00-0.10	MAR02246.029	Sediment	0.173	0.757
VC-24 1.00-1.10	MAR02246.030	Sediment	<0.005	<0.005
VC-24 1.90-2.00	MAR02246.031	Sediment	<0.005	<0.005
Certified Reference Material BCR-646 (% Recovery)			96	107
QC Blank			<0.001	<0.001

* See Report Notes

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Test Report ID MAR02246
 Issue Version 1
 Customer Reference Falmouth Harbour - MMO Testing

		Units	mg/Kg (Dry Weight)	
		Method No	ASC/SOP/301	
		Limit of Detection	0.001	0.001
		Accreditation	UKAS/MMO	UKAS/MMO
Client Reference:	SOCOTEC Ref:	Matrix	Dibutyltin (DBT)	Tributyltin (TBT)
VC-25 0.00-0.10	MAR02246.032	Sediment	<0.005	<0.005
VC-25 1.00-1.10	MAR02246.033	Sediment	<0.005	<0.005
VC-25 2.00-2.10	MAR02246.034	Sediment	<0.005	<0.005
VC-25 3.00-3.10	MAR02246.035	Sediment	<0.005	<0.005
VC-25 3.90-4.00	MAR02246.036	Sediment	<0.005	<0.005
Certified Reference Material BCR-646 (% Recovery)			97	106
QC Blank			<0.001	<0.001

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Test Report ID MAR02246
Issue Version 1
Customer Reference Falmouth Harbour - MMO Testing

		Units	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)
		Method No	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304
		Limit of Detection	1	1	1	1	1	1	1	1
		Accreditation	MMO*	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO
Client Reference:	SOCOTEC Ref:	Matrix	ACENAPTH	ACENAPHY	ANTHRACN	BAA	BAP	BBF	BENZGHIP	BEP
VC-02 0.05-0.15	MAR02246.001	Sediment	<1	1.72	<1	5.48	9.45	8.26	6.21	5.67
VC-02 0.90-1.00	MAR02246.002	Sediment	<1	<1	<1	<1	1.66	1.16	<1	<1
VC-03 0.00-0.10	MAR02246.003	Sediment	267	157	258	1070	2200	2120	1630	1460
VC-03 1.00-1.10	MAR02246.004	Sediment	312	144	286	1260	2420	2400	1830	1660
VC-03 2.00-2.10	MAR02246.005	Sediment	237	228	655	2540	4600	4100	3100	3050
VC-03 3.00-3.10	MAR02246.006	Sediment	1.86	2.62	6.26	21.0	37.1	31.1	23.4	22.0
VC-06 0.00-0.05	MAR02246.007	Sediment	89.4	46.2	141	686	1760	1590	1300	1010
VC-06 1.00-1.10	MAR02246.008	Sediment	<1	<1	<1	<1	<1	<1	<1	<1
VC-06 2.00-2.10	MAR02246.009	Sediment	<1	<1	<1	<1	<1	<1	<1	<1
VC-06 2.55-2.65	MAR02246.010	Sediment	<1	<1	<1	<1	<1	<1	<1	<1
Certified Reference Material Nist 1941b (% Recovery)			100	112	67	68	65	88	57	80
QC Blank			<1	<1	<1	<1	<1	<1	<1	<1

~ Indicates result is for an In-house Reference Material as no Certified Reference Materials are available.

For full analyte name see method summaries.

*See report notes

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Test Report ID MAR02246
Issue Version 1
Customer Reference Falmouth Harbour - MMO Testing

		Units	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)
		Method No	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304
		Limit of Detection	1	1	1	1	1	1	1	1
		Accreditation	UKAS/MMO	MMO	MMO	MMO	MMO	MMO	UKAS/MMO	UKAS/MMO
Client Reference:	SOCOTEC Ref:	Matrix	BKF*	C1N	C1PHEN	C2N	C3N	CHRYSENE*	DBENZAH	FLUORANT
VC-02 0.05-0.15	MAR02246.001	Sediment	8.29	1.50	4.89	2.11	1.66	8.07	1.47	16.4
VC-02 0.90-1.00	MAR02246.002	Sediment	1.66	1.26	<1	1.36	<1	1.21	<1	1.84
VC-03 0.00-0.10	MAR02246.003	Sediment	1840	231	586	234	204	1260	378	2010
VC-03 1.00-1.10	MAR02246.004	Sediment	2170	278	576	285	231	1550	463	2290
VC-03 2.00-2.10	MAR02246.005	Sediment	3720	358	1410	392	351	2820	745	4660
VC-03 3.00-3.10	MAR02246.006	Sediment	29.9	7.63	10.1	6.85	5.09	25.7	6.30	30.8
VC-06 0.00-0.05	MAR02246.007	Sediment	1380	74.2	306	107	84.0	751	296.0	1020
VC-06 1.00-1.10	MAR02246.008	Sediment	<1	<1	<1	<1	<1	<1	<1	<1
VC-06 2.00-2.10	MAR02246.009	Sediment	<1	<1	<1	<1	<1	<1	<1	<1
VC-06 2.55-2.65	MAR02246.010	Sediment	<1	<1	<1	<1	<1	<1	<1	<1
Certified Reference Material Nist 1941b (% Recovery)			77	80	86	116	113	89	112	81
QC Blank			<1	<1	<1	<1	<1	<1	<1	<1

~ Indicates result is for an In-house Reference Material as no Certified Reference Materials are available.

For full analyte name see method summaries.

*See report notes

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Test Report ID MAR02246
Issue Version 1
Customer Reference Falmouth Harbour - MMO Testing

		Units	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	mg/Kg
		Method No	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/305
		Limit of Detection	1	1	1	1	1	1	1
		Accreditation	MMO*	UKAS/MMO	UKAS/MMO	MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO
Client Reference:	SOCOTEC Ref:	Matrix	FLUORENE	INDPYR	NAPTH	PERYLENE	PHENANT	PYRENE	THC
VC-02 0.05-0.15	MAR02246.001	Sediment	1.52	6.20	<1	1.66	12.9	14.3	1.17
VC-02 0.90-1.00	MAR02246.002	Sediment	<1	1.17	<1	<1	<1	1.89	<1
VC-03 0.00-0.10	MAR02246.003	Sediment	167	1760	145	474	972	2470	37.7
VC-03 1.00-1.10	MAR02246.004	Sediment	155	2000	152	531	1080	2900	1270
VC-03 2.00-2.10	MAR02246.005	Sediment	265	3320	271	919	2180	6000	1220
VC-03 3.00-3.10	MAR02246.006	Sediment	3.35	25.8	6.49	6.97	13.0	41.5	24.8
VC-06 0.00-0.05	MAR02246.007	Sediment	88.2	1380	80.9	298	486	941	421
VC-06 1.00-1.10	MAR02246.008	Sediment	<1	<1	<1	<1	<1	<1	<1
VC-06 2.00-2.10	MAR02246.009	Sediment	<1	<1	<1	<1	<1	<1	1
VC-06 2.55-2.65	MAR02246.010	Sediment	<1	<1	<1	<1	<1	<1	<1
Certified Reference Material Nist 1941b (% Recovery)			57	81	63	53	82	72	91~
QC Blank			<1	<1	<1	<1	<1	<1	<1

~ Indicates result is for an In-house Reference Material as no Certified Reference Materials are available.

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Test Report ID MAR02246
Issue Version 1
Customer Reference Falmouth Harbour - MMO Testing

		Units	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)
		Method No	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304
		Limit of Detection	1	1	1	1	1	1	1	1
		Accreditation	MMO*	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO
Client Reference:	SOCOTEC Ref:	Matrix	ACENAPTH	ACENAPHY	ANTHRACN	BAA	BAP	BBF	BENZGHIP	BEP
VC-07 0.00-0.10	MAR02246.011	Sediment	46.6	35.3	90.1	240	455	441	340	293
VC-07 1.00-1.10	MAR02246.012	Sediment	<1	<1	<1	<1	<1	<1	<1	<1
VC-07 1.20-1.30	MAR02246.013	Sediment	<1	2.34	1.46	6.32	9.74	8.28	5.18	5.55
VC-09 0.00-0.10	MAR02246.014	Sediment	108	129	240	1040	1620	1380	1060	947
VC-09 1.00-1.10	MAR02246.015	Sediment	<5	<5	<5	<5	<5	<5	<5	<5
Certified Reference Material Nist 1941b (% Recovery)			97	112	67	68	64	89	69	81
QC Blank			<1	<1	<1	<1	<1	<1	<1	<1

– Indicates result is for an In-house Reference Material as no Certified Reference Materials are available.

For full analyte name see method summaries.

*See report notes

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Test Report ID MAR02246
Issue Version 1
Customer Reference Falmouth Harbour - MMO Testing

		Units	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)
		Method No	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304
		Limit of Detection	1	1	1	1	1	1	1	1
		Accreditation	UKAS/MMO	MMO	MMO	MMO	MMO	MMO	UKAS/MMO	UKAS/MMO
Client Reference:	SOCOTEC Ref:	Matrix	BKF*	C1N	C1PHEN	C2N	C3N	CHRYSENE*	DBENZAH	FLUORANT
VC-07 0.00-0.10	MAR02246.011	Sediment	364	181	274	217	154	295	77.9	422
VC-07 1.00-1.10	MAR02246.012	Sediment	<1	<1	<1	<1	<1	<1	<1	<1
VC-07 1.20-1.30	MAR02246.013	Sediment	9.57	<1	7.50	1.70	1.49	12.2	1.20	29.7
VC-09 0.00-0.10	MAR02246.014	Sediment	1230	145	459	177	155	1080	221	1890
VC-09 1.00-1.10	MAR02246.015	Sediment	<5	<5	<5	30.8	<5	<5	<5	<5
Certified Reference Material Nist 1941b (% Recovery)			76	79	84	116	127	88	122	80
QC Blank			<1	<1	<1	<1	<1	<1	<1	<1

– Indicates result is for an In-house Reference Material as no Certified Reference Materials are available.

For full analyte name see method summaries.

*See report notes

MAR02246

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Certificate of Analysis



Issuing Laboratory SOCOTEC, Marine Department, Advanced Chemistry and Research, Etwall House, Bretby Business Park, Ashby Road, Burton-upon-Trent DE15 0YZ

Test Report ID MAR02246
Issue Version 1
Customer Reference Falmouth Harbour - MMO Testing

		Units	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	mg/Kg
		Method No	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/305
		Limit of Detection	1	1	1	1	1	1	1
		Accreditation	MMO*	UKAS/MMO	UKAS/MMO	MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO
Client Reference:	SOCOTEC Ref:	Matrix	FLUORENE	INDPYR	NAPTH	PERYLENE	PHENANT	PYRENE	THC
VC-07 0.00-0.10	MAR02246.011	Sediment	58.7	354	90.5	78.7	322	460	123
VC-07 1.00-1.10	MAR02246.012	Sediment	<1	<1	<1	<1	<1	<1	<1
VC-07 1.20-1.30	MAR02246.013	Sediment	2.62	6.00	<1	1.36	25.1	21.4	<1
VC-09 0.00-0.10	MAR02246.014	Sediment	108	1180	101	306	629	1820	103
VC-09 1.00-1.10	MAR02246.015	Sediment	<5	<5	<5	151	<5	<5	<1
Certified Reference Material Nist 1941b (% Recovery)			59	84	63	52	80	70	85~
QC Blank			<1	<1	<1	<1	<1	<1	<1

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Issue Version 1
Customer Reference Falmouth Harbour - MMO Testing

		Units	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)
		Method No	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304
		Limit of Detection	1	1	1	1	1	1	1	1
		Accreditation	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO
Client Reference:	SOCOTEC Ref:	Matrix	ACENAPTH	ACENAPHY	ANTHRACN	BAA	BAP	BBF	BENZGHIP	BEP
VC-09 2.00-2.10	MAR02246.016	Sediment	<5	<5	<5	<5	<5	<5	<5	<5
VC-09 3.00-3.10	MAR02246.017	Sediment	<5	<5	<5	<5	<5	<5	<5	<5
VC-09 4.00-4.10	MAR02246.018	Sediment	<5	<5	<5	<5	<5	<5	<5	<5
VC-09 5.00-5.10	MAR02246.019	Sediment	<5	<5	<5	<5	<5	<5	<5	<5
VC-11 0.00-0.10	MAR02246.020	Sediment	53.5	39.6	53.0	180	312	310	249	222
VC-11 1.00-1.10	MAR02246.021	Sediment	<5	<5	<5	<5	<5	<5	<5	<5
VC-11 2.00-2.10	MAR02246.022	Sediment	<5	<5	<5	<5	<5	<5	<5	<5
VC-11 3.00-3.10	MAR02246.023	Sediment	<5	<5	<5	<5	<5	<5	<5	<5
VC-11 4.00-4.10	MAR02246.024	Sediment	<5	<5	<5	<5	<5	<5	<5	<5
VC-11 5.00-5.10	MAR02246.025	Sediment	<5	<5	<5	<5	<5	<5	<5	<5
Certified Reference Material Nist 1941b (% Recovery)			71	113	68	65	58	92	76	74
QC Blank			<1	<1	<1	<1	<1	<1	<1	<1

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For full analyte name see method summaries.

*See report notes

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Test Report ID MAR02246
Issue Version 1
Customer Reference Falmouth Harbour - MMO Testing

		Units	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)
		Method No	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304
		Limit of Detection	1	1	1	1	1	1	1	1
		Accreditation	UKAS/MMO	MMO	MMO	MMO	MMO	MMO	UKAS/MMO	UKAS/MMO
Client Reference:	SOCOTEC Ref:	Matrix	BKF*	C1N	C1PHEN	C2N	C3N	CHRYSENE*	DBENZAH	FLUORANT
VC-09 2.00-2.10	MAR02246.016	Sediment	<5	<5	<5	37.0	<5	<5	<5	<5
VC-09 3.00-3.10	MAR02246.017	Sediment	<5	<5	<5	28.4	<5	<5	<5	<5
VC-09 4.00-4.10	MAR02246.018	Sediment	<5	<5	<5	17.9	<5	<5	<5	<5
VC-09 5.00-5.10	MAR02246.019	Sediment	<5	<5	<5	1.45	<5	<5	<5	<5
VC-11 0.00-0.10	MAR02246.020	Sediment	278	131	106	161	96.3	219	49.4	293
VC-11 1.00-1.10	MAR02246.021	Sediment	<5	<5	<5	27.4	<5	<5	<5	<5
VC-11 2.00-2.10	MAR02246.022	Sediment	<5	<5	<5	17.1	<5	<5	<5	<5
VC-11 3.00-3.10	MAR02246.023	Sediment	<5	<5	<5	28.9	<5	<5	<5	<5
VC-11 4.00-4.10	MAR02246.024	Sediment	<5	<5	<5	41.1	<5	<5	<5	<5
VC-11 5.00-5.10	MAR02246.025	Sediment	<5	<5	<5	25.7	<5	<5	<5	<5
Certified Reference Material Nist 1941b (% Recovery)			76	80	78	116	131	86	105	89
QC Blank			<1	<1	<1	<1	<1	<1	<1	<1

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Test Report ID MAR02246
Issue Version 1
Customer Reference Falmouth Harbour - MMO Testing

		Units	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	mg/Kg
		Method No	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/305
		Limit of Detection	1	1	1	1	1	1	1
		Accreditation	UKAS/MMO	UKAS/MMO	UKAS/MMO	MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO
Client Reference:	SOCOTEC Ref:	Matrix	FLUORENE	INDPYR	NAPTH	PERYLENE	PHENANT	PYRENE	THC
VC-09 2.00-2.10	MAR02246.016	Sediment	<5	<5	<5	405	<5	<5	<1
VC-09 3.00-3.10	MAR02246.017	Sediment	<5	<5	<5	402	<5	<5	<1
VC-09 4.00-4.10	MAR02246.018	Sediment	<5	<5	<5	222	<5	<5	<1
VC-09 5.00-5.10	MAR02246.019	Sediment	<5	<5	<5	6.20	<5	<5	<1
VC-11 0.00-0.10	MAR02246.020	Sediment	47.0	256	57.1	82.8	162	342	101
VC-11 1.00-1.10	MAR02246.021	Sediment	<5	<5	<5	72.1	<5	<5	<1
VC-11 2.00-2.10	MAR02246.022	Sediment	<5	<5	<5	30.0	<5	<5	<1
VC-11 3.00-3.10	MAR02246.023	Sediment	<5	<5	<5	99.0	<5	<5	<1
VC-11 4.00-4.10	MAR02246.024	Sediment	<5	<5	<5	379	<5	<5	<1
VC-11 5.00-5.10	MAR02246.025	Sediment	<5	<5	<5	675	<5	<5	1.26
Certified Reference Material Nist 1941b (% Recovery)			57	74	63	47	84	73	89~
QC Blank			<1	<1	<1	<1	<1	<1	<1

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Customer Reference Falmouth Harbour - MMO Testing

		Units	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)
		Method No	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304
		Limit of Detection	1	1	1	1	1	1	1	1
		Accreditation	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO
Client Reference:	SOCOTEC Ref:	Matrix	ACENAPTH	ACENAPHY	ANTHRACN	BAA	BAP	BBF	BENZGHIP	BEP
VC-11 5.30-5.37	MAR02246.026	Sediment	<5	<5	<5	<5	<5	<5	<5	<5
VC-22 0.00-0.10	MAR02246.027	Sediment	341	97.3	573	2010	2670	1900	1710	1590
VC-22 1.00-1.10	MAR02246.028	Sediment	2.00	5.65	5.80	25.7	53.6	45.7	34.6	27.4
VC-24 0.00-0.10	MAR02246.029	Sediment	76.3	119	205	802	1880	1660	1400	1050
VC-24 1.00-1.10	MAR02246.030	Sediment	<1	<1	<1	<1	<1	<1	<1	<1
Certified Reference Material Nist 1941b (% Recovery)			102	118	71	65	59	81	70	74
QC Blank			<1	<1	<1	<1	<1	<1	<1	<1

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Issue Version 1
Customer Reference Falmouth Harbour - MMO Testing

		Units	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)
		Method No	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304
		Limit of Detection	1	1	1	1	1	1	1	1
		Accreditation	UKAS/MMO	MMO	MMO	MMO	MMO	MMO	UKAS/MMO	UKAS/MMO
Client Reference:	SOCOTEC Ref:	Matrix	BKF*	C1N	C1PHEN	C2N	C3N	CHRYSENE*	DBENZAH	FLUORANT
VC-11 5.30-5.37	MAR02246.026	Sediment	<5	<5	<5	26.4	<5	<5	<5	<5
VC-22 0.00-0.10	MAR02246.027	Sediment	2170	186	776	192	192	2160	332	4100
VC-22 1.00-1.10	MAR02246.028	Sediment	42.5	5.23	12.4	5.63	4.5	28.3	7.92	41.9
VC-24 0.00-0.10	MAR02246.029	Sediment	1470	132	490	161	132	880	273	1460
VC-24 1.00-1.10	MAR02246.030	Sediment	<1	<1	<1	1.38	<1	<1	<1	<1
Certified Reference Material Nist 1941b (% Recovery)			71	78	94	116	133	86	101	88
QC Blank			<1	<1	<1	<1	<1	<1	<1	<1

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Customer Reference Falmouth Harbour - MMO Testing

		Units	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	mg/Kg
		Method No	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/305
		Limit of Detection	1	1	1	1	1	1	1
		Accreditation	UKAS/MMO	UKAS/MMO	UKAS/MMO	MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO
Client Reference:	SOCOTEC Ref:	Matrix	FLUORENE	INDPYR	NAPTH	PERYLENE	PHENANT	PYRENE	THC
VC-11 5.30-5.37	MAR02246.026	Sediment	<5	<5	<5	409	<5	<5	<1
VC-22 0.00-0.10	MAR02246.027	Sediment	277	1820	95.0	560	2080	4080	1870
VC-22 1.00-1.10	MAR02246.028	Sediment	2.42	36.9	4.58	8.68	13.7	45.3	36.2
VC-24 0.00-0.10	MAR02246.029	Sediment	89.7	1450	84.8	263	669	1400	1470
VC-24 1.00-1.10	MAR02246.030	Sediment	<1	<1	<1	<1	<1	<1	<1
Certified Reference Material Nist 1941b (% Recovery)			55	74	61	45	84	72	87~
QC Blank			<1	<1	<1	<1	<1	<1	<1

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Customer Reference Falmouth Harbour - MMO Testing

		Units	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)
		Method No	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304
		Limit of Detection	1	1	1	1	1	1	1	1
		Accreditation	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO
Client Reference:	SOCOTEC Ref:	Matrix	ACENAPTH	ACENAPHY	ANTHRACN	BAA	BAP	BBF	BENZGHIP	BEP
VC-24 1.90-2.00	MAR02246.031	Sediment	<1	<1	<1	<1	2.25	1.74	1.85	1.37
VC-25 0.00-0.10	MAR02246.032	Sediment	4.58	34.6	57.4	110	665	649	356	366
VC-25 1.00-1.10	MAR02246.033	Sediment	<5	<5	<5	<5	<5	<5	<5	<5
VC-25 2.00-2.10	MAR02246.034	Sediment	<5	<5	<5	<5	<5	<5	<5	<5
VC-25 3.00-3.10	MAR02246.035	Sediment	<5	<5	<5	<5	<5	<5	<5	<5
VC-25 3.90-4.00	MAR02246.036	Sediment	<5	<5	<5	<5	<5	<5	<5	<5
Certified Reference Material Nist 1941b (% Recovery)			102	120	71	60	57	82	77	69
QC Blank			<1	<1	<1	<1	<1	<1	<1	<1

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		Units	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)
		Method No	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304
		Limit of Detection	1	1	1	1	1	1	1	1
		Accreditation	UKAS/MMO	MMO	MMO	MMO	MMO	MMO	UKAS/MMO	UKAS/MMO
Client Reference:	SOCOTEC Ref:	Matrix	BKF*	C1N	C1PHEN	C2N	C3N	CHRYSENE*	DBENZAH	FLUORANT
VC-24 1.90-2.00	MAR02246.031	Sediment	1.97	<1	<1	1.55	<1	<1	<1	2.75
VC-25 0.00-0.10	MAR02246.032	Sediment	532	14.1	55.2	24.5	12.4	194	88.5	148
VC-25 1.00-1.10	MAR02246.033	Sediment	<5	<5	<5	52.8	<5	<5	<5	<5
VC-25 2.00-2.10	MAR02246.034	Sediment	<5	<5	<5	48.7	<5	<5	<5	<5
VC-25 3.00-3.10	MAR02246.035	Sediment	<5	<5	<5	47.2	9.5	<5	<5	<5
VC-25 3.90-4.00	MAR02246.036	Sediment	<5	<5	<5	21.7	<5	<5	<5	<5
Certified Reference Material Nist 1941b (% Recovery)			75	74	75	114	109	79	105	81
QC Blank			<1	<1	<1	<1	<1	<1	<1	<1

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		Units	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	mg/Kg
		Method No	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/305
		Limit of Detection	1	1	1	1	1	1	1
		Accreditation	MMO*	UKAS/MMO	UKAS/MMO	MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO
Client Reference:	SOCOTEC Ref:	Matrix	FLUORENE	INDPYR	NAPTH	PERYLENE	PHENANT	PYRENE	THC
VC-24 1.90-2.00	MAR02246.031	Sediment	<1	1.79	<1	<1	<1	2.39	<1
VC-25 0.00-0.10	MAR02246.032	Sediment	8.95	399	11.1	72.1	40.1	139	245
VC-25 1.00-1.10	MAR02246.033	Sediment	<5	<5	<5	88.6	<5	<5	12.6
VC-25 2.00-2.10	MAR02246.034	Sediment	<5	<5	<5	363	<5	<5	<1
VC-25 3.00-3.10	MAR02246.035	Sediment	<5	<5	<5	567	<5	<5	<1
VC-25 3.90-4.00	MAR02246.036	Sediment	<5	<5	<5	30.4	<5	<5	<1
Certified Reference Material Nist 1941b (% Recovery)			60	70	63	44	83	70	87~
QC Blank			<1	<1	<1	<1	<1	<1	<1

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		Units	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)
		Method No	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302
		Limit of Detection	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008
		Accreditation	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO
Client Reference:	SOCOTEC Ref:	Matrix	PCB 101	PCB 105	PCB 110	PCB 118	PCB 128	PCB 138	PCB 141
VC-02 0.05-0.15	MAR02246.001	Sediment	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008
VC-02 0.90-1.00	MAR02246.002	Sediment	0.00016	<0.00008	0.00018	0.00015	<0.00008	0.00022	<0.00008
VC-03 0.00-0.10	MAR02246.003	Sediment	0.01295	0.00323	0.01384	0.01255	0.00438	0.01624	0.00358
VC-03 1.00-1.10	MAR02246.004	Sediment	0.06051	0.01795	0.05711	0.05065	0.01059	0.04764	0.01313
VC-03 2.00-2.10	MAR02246.005	Sediment	0.00102	0.00031	0.00104	0.00094	0.00036	0.00093	0.00027
VC-03 3.00-3.10	MAR02246.006	Sediment	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008
VC-06 0.00-0.05	MAR02246.007	Sediment	0.02204	0.00545	0.01825	0.01767	0.00644	0.02381	0.00509
VC-06 1.00-1.10	MAR02246.008	Sediment	0.00034	<0.00008	0.00026	0.00030	<0.00008	0.00018	<0.00008
VC-06 2.00-2.10	MAR02246.009	Sediment	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008
VC-06 2.55-2.65	MAR02246.010	Sediment	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008
Certified Reference Material Nist 1941b (% Recovery)			89	83	102	102	89	104	105~
QC Blank			<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008

~ Indicates result is for an In-house Reference Material as no Certified Reference Materials are available.

Certificate of Analysis



Issuing Laboratory SOCOTEC, Marine Department, Advanced Chemistry and Research, Etwall House, Bretby Business Park, Ashby Road, Burton-upon-Trent DE15 0YZ

Test Report ID MAR02246
Issue Version 1
Customer Reference Falmouth Harbour - MMO Testing

		Units	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)
		Method No	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302
		Limit of Detection	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008
		Accreditation	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO
Client Reference:	SOCOTEC Ref:	Matrix	PCB 149	PCB 151	PCB 153	PCB 156	PCB 158	PCB 170	PCB 18
VC-02 0.05-0.15	MAR02246.001	Sediment	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008
VC-02 0.90-1.00	MAR02246.002	Sediment	0.00019	0.00009	0.00027	<0.00008	<0.00008	<0.00008	<0.00008
VC-03 0.00-0.10	MAR02246.003	Sediment	0.01544	0.00402	0.02030	0.00271	0.00275	0.00497	0.00058
VC-03 1.00-1.10	MAR02246.004	Sediment	0.05518	0.01733	0.06568	0.00782	0.00865	0.02100	0.00988
VC-03 2.00-2.10	MAR02246.005	Sediment	0.00086	0.00020	0.00106	0.00014	0.00017	0.00059	0.00038
VC-03 3.00-3.10	MAR02246.006	Sediment	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008
VC-06 0.00-0.05	MAR02246.007	Sediment	0.02149	0.00682	0.03385	0.00384	0.00463	0.00956	0.00153
VC-06 1.00-1.10	MAR02246.008	Sediment	0.00030	0.00008	0.00031	<0.00008	<0.00008	<0.00008	<0.00008
VC-06 2.00-2.10	MAR02246.009	Sediment	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008
VC-06 2.55-2.65	MAR02246.010	Sediment	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008
Certified Reference Material Nist 1941b (% Recovery)			96	108~	87	98	97	86	81
QC Blank			<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008

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MAR02246

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Certificate of Analysis



Issuing Laboratory SOCOTEC, Marine Department, Advanced Chemistry and Research, Etwall House, Bretby Business Park, Ashby Road, Burton-upon-Trent DE15 0YZ

Test Report ID MAR02246
Issue Version 1
Customer Reference Falmouth Harbour - MMO Testing

		Units	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)
		Method No	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302
		Limit of Detection	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008
		Accreditation	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO
Client Reference:	SOCOTEC Ref:	Matrix	PCB 180	PCB 183	PCB 187	PCB 194	PCB 28	PCB 31	PCB 44
VC-02 0.05-0.15	MAR02246.001	Sediment	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008
VC-02 0.90-1.00	MAR02246.002	Sediment	0.00009	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008
VC-03 0.00-0.10	MAR02246.003	Sediment	0.01016	0.00289	0.00602	0.00244	0.00085	0.00088	0.00288
VC-03 1.00-1.10	MAR02246.004	Sediment	0.04126	0.01134	0.02222	0.00976	0.01482	0.01578	0.03363
VC-03 2.00-2.10	MAR02246.005	Sediment	0.00142	0.00032	0.00052	0.00035	0.00044	0.00049	0.00085
VC-03 3.00-3.10	MAR02246.006	Sediment	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008
VC-06 0.00-0.05	MAR02246.007	Sediment	0.02037	0.00569	0.01112	0.00434	0.00220	0.00160	0.00591
VC-06 1.00-1.10	MAR02246.008	Sediment	0.00014	<0.00008	0.00014	<0.00008	<0.00008	<0.00008	0.00008
VC-06 2.00-2.10	MAR02246.009	Sediment	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008
VC-06 2.55-2.65	MAR02246.010	Sediment	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008
Certified Reference Material Nist 1941b (% Recovery)			92	76	102	104	73	92	88
QC Blank			<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008

- Indicates result is for an In-house Reference Material as no Certified Reference Materials are available.

Certificate of Analysis



Issuing Laboratory SOCOTEC, Marine Department, Advanced Chemistry and Research, Etwall House, Bretby Business Park, Ashby Road, Burton-upon-Trent DE15 0YZ

Test Report ID MAR02246
Issue Version 1
Customer Reference Falmouth Harbour - MMO Testing

		Units	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)
		Method No	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302
		Limit of Detection	0.00008	0.00008	0.00008	0.00008
		Accreditation	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO
Client Reference:	SOCOTEC Ref:	Matrix	PCB 47	PCB 49	PCB 52	PCB 66
VC-02 0.05-0.15	MAR02246.001	Sediment	<0.00008	<0.00008	<0.00008	<0.00008
VC-02 0.90-1.00	MAR02246.002	Sediment	0.00009	0.00008	0.00009	0.00006
VC-03 0.00-0.10	MAR02246.003	Sediment	0.00101	0.00355	0.00587	0.00296
VC-03 1.00-1.10	MAR02246.004	Sediment	0.01141	0.03727	0.05013	0.04218
VC-03 2.00-2.10	MAR02246.005	Sediment	0.00029	0.00093	0.00118	0.00087
VC-03 3.00-3.10	MAR02246.006	Sediment	<0.00008	<0.00008	<0.00008	<0.00008
VC-06 0.00-0.05	MAR02246.007	Sediment	0.00199	0.00766	0.01061	0.00725
VC-06 1.00-1.10	MAR02246.008	Sediment	<0.00008	0.00011	0.00014	0.00012
VC-06 2.00-2.10	MAR02246.009	Sediment	<0.00008	<0.00008	<0.00008	<0.00008
VC-06 2.55-2.65	MAR02246.010	Sediment	<0.00008	<0.00008	<0.00008	<0.00008
Certified Reference Material Nist 1941b (% Recovery)			104~	94	88	98
QC Blank			<0.00008	<0.00008	<0.00008	<0.00008

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Test Report ID MAR02246
Issue Version 1
Customer Reference Falmouth Harbour - MMO Testing

		Units	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)
		Method No	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302
		Limit of Detection	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008
		Accreditation	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO
Client Reference:	SOCOTEC Ref:	Matrix	PCB 101	PCB 105	PCB 110	PCB 118	PCB 128	PCB 138	PCB 141
VC-07 0.00-0.10	MAR02246.011	Sediment	0.00308	0.00053	0.00234	0.00265	0.00071	0.00391	0.00077
VC-07 1.00-1.10	MAR02246.012	Sediment	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008
VC-07 1.20-1.30	MAR02246.013	Sediment	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008
VC-09 0.00-0.10	MAR02246.014	Sediment	0.01244	0.00239	0.00939	0.01193	0.00285	0.01046	0.00147
VC-09 1.00-1.10	MAR02246.015	Sediment	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	0.00008	<0.00008
VC-09 2.00-2.10	MAR02246.016	Sediment	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008
VC-09 3.00-3.10	MAR02246.017	Sediment	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008
VC-09 4.00-4.10	MAR02246.018	Sediment	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008
VC-09 5.00-5.10	MAR02246.019	Sediment	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008
VC-11 0.00-0.10	MAR02246.020	Sediment	0.00346	0.00061	0.00218	0.00259	0.00091	0.00547	0.00131
Certified Reference Material Nist 1941b (% Recovery)			91	87	99	103	88	99	105~
QC Blank			<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008

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Certificate of Analysis



Issuing Laboratory SOCOTEC, Marine Department, Advanced Chemistry and Research, Etwall House, Bretby Business Park, Ashby Road, Burton-upon-Trent DE15 0YZ

Test Report ID MAR02246
Issue Version 1
Customer Reference Falmouth Harbour - MMO Testing

		Units	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)
		Method No	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302
		Limit of Detection	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008
		Accreditation	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO
Client Reference:	SOCOTEC Ref:	Matrix	PCB 149	PCB 151	PCB 153	PCB 156	PCB 158	PCB 170	PCB 18
VC-07 0.00-0.10	MAR02246.011	Sediment	0.00362	0.00102	0.00436	0.00044	0.00051	0.00146	0.00028
VC-07 1.00-1.10	MAR02246.012	Sediment	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008
VC-07 1.20-1.30	MAR02246.013	Sediment	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008
VC-09 0.00-0.10	MAR02246.014	Sediment	0.01202	0.00342	0.01517	0.00146	0.00177	0.00297	0.00057
VC-09 1.00-1.10	MAR02246.015	Sediment	<0.00008	<0.00008	0.00014	<0.00008	<0.00008	<0.00008	<0.00008
VC-09 2.00-2.10	MAR02246.016	Sediment	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008
VC-09 3.00-3.10	MAR02246.017	Sediment	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008
VC-09 4.00-4.10	MAR02246.018	Sediment	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008
VC-09 5.00-5.10	MAR02246.019	Sediment	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008
VC-11 0.00-0.10	MAR02246.020	Sediment	0.00567	0.00191	0.00794	0.00064	0.00076	0.00270	0.00040
Certified Reference Material Nist 1941b (% Recovery)			98	105~	91	95	99	93	80
QC Blank			<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008

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Certificate of Analysis



Issuing Laboratory SOCOTEC, Marine Department, Advanced Chemistry and Research, Etwall House, Bretby Business Park, Ashby Road, Burton-upon-Trent DE15 0YZ

Test Report ID MAR02246
Issue Version 1
Customer Reference Falmouth Harbour - MMO Testing

		Units	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)
		Method No	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302
		Limit of Detection	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008
		Accreditation	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO
Client Reference:	SOCOTEC Ref:	Matrix	PCB 180	PCB 183	PCB 187	PCB 194	PCB 28	PCB 31	PCB 44
VC-07 0.00-0.10	MAR02246.011	Sediment	0.00252	0.00086	0.00172	0.00064	0.00040	0.00026	0.00082
VC-07 1.00-1.10	MAR02246.012	Sediment	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008
VC-07 1.20-1.30	MAR02246.013	Sediment	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008
VC-09 0.00-0.10	MAR02246.014	Sediment	0.00589	0.00186	0.00435	0.00167	0.00117	0.00081	0.00219
VC-09 1.00-1.10	MAR02246.015	Sediment	0.00010	<0.00008	0.00009	<0.00008	<0.00008	<0.00008	<0.00008
VC-09 2.00-2.10	MAR02246.016	Sediment	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008
VC-09 3.00-3.10	MAR02246.017	Sediment	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008
VC-09 4.00-4.10	MAR02246.018	Sediment	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008
VC-09 5.00-5.10	MAR02246.019	Sediment	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008
VC-11 0.00-0.10	MAR02246.020	Sediment	0.00586	0.00132	0.00312	0.00130	0.00077	0.00058	0.00084
Certified Reference Material Nist 1941b (% Recovery)			86	74	90	95	73	85	91
QC Blank			<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008

- Indicates result is for an In-house Reference Material as no Certified Reference Materials are available.

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Certificate of Analysis



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Test Report ID MAR02246
Issue Version 1
Customer Reference Falmouth Harbour - MMO Testing

		Units	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)
		Method No	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302
		Limit of Detection	0.00008	0.00008	0.00008	0.00008
		Accreditation	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO
Client Reference:	SOCOTEC Ref:	Matrix	PCB 47	PCB 49	PCB 52	PCB 66
VC-07 0.00-0.10	MAR02246.011	Sediment	0.00039	0.00127	0.00156	0.00107
VC-07 1.00-1.10	MAR02246.012	Sediment	<0.00008	<0.00008	<0.00008	<0.00008
VC-07 1.20-1.30	MAR02246.013	Sediment	<0.00008	<0.00008	<0.00008	<0.00008
VC-09 0.00-0.10	MAR02246.014	Sediment	0.00102	0.00343	0.00435	0.00315
VC-09 1.00-1.10	MAR02246.015	Sediment	<0.00008	<0.00008	<0.00008	<0.00008
VC-09 2.00-2.10	MAR02246.016	Sediment	<0.00008	<0.00008	<0.00008	<0.00008
VC-09 3.00-3.10	MAR02246.017	Sediment	<0.00008	<0.00008	<0.00008	<0.00008
VC-09 4.00-4.10	MAR02246.018	Sediment	<0.00008	<0.00008	<0.00008	<0.00008
VC-09 5.00-5.10	MAR02246.019	Sediment	<0.00008	<0.00008	<0.00008	<0.00008
VC-11 0.00-0.10	MAR02246.020	Sediment	0.00037	0.00107	0.00132	0.00113
Certified Reference Material Nist 1941b (% Recovery)			103~	92	83	100
QC Blank			<0.00008	<0.00008	<0.00008	<0.00008

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Test Report ID MAR02246
Issue Version 1
Customer Reference Falmouth Harbour - MMO Testing

		Units	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)
		Method No	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302
		Limit of Detection	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008
		Accreditation	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO
Client Reference:	SOCOTEC Ref:	Matrix	PCB 101	PCB 105	PCB 110	PCB 118	PCB 128	PCB 138	PCB 141
VC-11 1.00-1.10	MAR02246.021	Sediment	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008
VC-11 2.00-2.10	MAR02246.022	Sediment	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008
VC-11 3.00-3.10	MAR02246.023	Sediment	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008
VC-11 4.00-4.10	MAR02246.024	Sediment	0.00015	0.00011	0.00014	0.00012	0.00014	0.00016	0.00016
VC-11 5.00-5.10	MAR02246.025	Sediment	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008
VC-11 5.30-5.37	MAR02246.026	Sediment	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008
VC-22 0.00-0.10	MAR02246.027	Sediment	0.02309	0.00856	0.02051	0.03149	0.01296	0.04324	0.00877
VC-22 1.00-1.10	MAR02246.028	Sediment	0.00013	<0.00008	0.00012	0.00018	<0.00008	0.00008	<0.00008
VC-24 0.00-0.10	MAR02246.029	Sediment	0.01576	0.00365	0.01363	0.01447	0.00471	0.01934	0.00362
VC-24 1.00-1.10	MAR02246.030	Sediment	0.00009	<0.00008	0.00009	0.00009	<0.00008	<0.00008	<0.00008
Certified Reference Material Nist 1941b (% Recovery)			88	86	105	101	119	107	107#
QC Blank			<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008

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Issuing Laboratory SOCOTEC, Marine Department, Advanced Chemistry and Research, Etwall House, Bretby Business Park, Ashby Road, Burton-upon-Trent DE15 0YZ

Test Report ID MAR02246
Issue Version 1
Customer Reference Falmouth Harbour - MMO Testing

		Units	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)
		Method No	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302
		Limit of Detection	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008
		Accreditation	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO
Client Reference:	SOCOTEC Ref:	Matrix	PCB 149	PCB 151	PCB 153	PCB 156	PCB 158	PCB 170	PCB 18
VC-11 1.00-1.10	MAR02246.021	Sediment	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008
VC-11 2.00-2.10	MAR02246.022	Sediment	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008
VC-11 3.00-3.10	MAR02246.023	Sediment	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008
VC-11 4.00-4.10	MAR02246.024	Sediment	0.00014	0.00016	0.00015	0.00018	0.00018	0.00011	0.00012
VC-11 5.00-5.10	MAR02246.025	Sediment	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008
VC-11 5.30-5.37	MAR02246.026	Sediment	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008
VC-22 0.00-0.10	MAR02246.027	Sediment	0.03007	0.00698	0.04701	0.01054	0.00953	0.01128	0.00038
VC-22 1.00-1.10	MAR02246.028	Sediment	0.00012	<0.00008	0.00013	<0.00008	<0.00008	<0.00008	<0.00008
VC-24 0.00-0.10	MAR02246.029	Sediment	0.01799	0.00562	0.02404	0.00301	0.00285	0.00590	0.00078
VC-24 1.00-1.10	MAR02246.030	Sediment	0.00010	<0.00008	0.00011	<0.00008	<0.00008	<0.00008	<0.00008
Certified Reference Material Nist 1941b (% Recovery)			101	110~	100	92	88	97	83
QC Blank			<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008

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Test Report ID MAR02246
Issue Version 1
Customer Reference Falmouth Harbour - MMO Testing

		Units	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)
		Method No	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302
		Limit of Detection	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008
		Accreditation	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO
Client Reference:	SOCOTEC Ref:	Matrix	PCB 180	PCB 183	PCB 187	PCB 194	PCB 28	PCB 31	PCB 44
VC-11 1.00-1.10	MAR02246.021	Sediment	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008
VC-11 2.00-2.10	MAR02246.022	Sediment	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008
VC-11 3.00-3.10	MAR02246.023	Sediment	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008
VC-11 4.00-4.10	MAR02246.024	Sediment	0.00011	0.00017	0.00018	0.00020	0.00012	0.00013	0.00015
VC-11 5.00-5.10	MAR02246.025	Sediment	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008
VC-11 5.30-5.37	MAR02246.026	Sediment	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008
VC-22 0.00-0.10	MAR02246.027	Sediment	0.01699	0.00447	0.00707	0.00299	0.00058	0.00053	0.00179
VC-22 1.00-1.10	MAR02246.028	Sediment	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008
VC-24 0.00-0.10	MAR02246.029	Sediment	0.01211	0.00405	0.00748	0.00342	0.00147	0.00101	0.00304
VC-24 1.00-1.10	MAR02246.030	Sediment	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008
Certified Reference Material Nist 1941b (% Recovery)			99	59	103	92	84	103	89
QC Blank			<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008

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Test Report ID MAR02246
Issue Version 1
Customer Reference Falmouth Harbour - MMO Testing

		Units	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)
		Method No	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302
		Limit of Detection	0.00008	0.00008	0.00008	0.00008
		Accreditation	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO
Client Reference:	SOCOTEC Ref:	Matrix	PCB 47	PCB 49	PCB 52	PCB 66
VC-11 1.00-1.10	MAR02246.021	Sediment	<0.00008	<0.00008	<0.00008	<0.00008
VC-11 2.00-2.10	MAR02246.022	Sediment	<0.00008	<0.00008	<0.00008	<0.00008
VC-11 3.00-3.10	MAR02246.023	Sediment	<0.00008	<0.00008	<0.00008	<0.00008
VC-11 4.00-4.10	MAR02246.024	Sediment	0.00013	0.00013	0.00011	0.00015
VC-11 5.00-5.10	MAR02246.025	Sediment	<0.00008	<0.00008	<0.00008	<0.00008
VC-11 5.30-5.37	MAR02246.026	Sediment	<0.00008	<0.00008	<0.00008	<0.00008
VC-22 0.00-0.10	MAR02246.027	Sediment	0.00055	0.00218	0.00356	0.00258
VC-22 1.00-1.10	MAR02246.028	Sediment	<0.00008	<0.00008	<0.00008	<0.00008
VC-24 0.00-0.10	MAR02246.029	Sediment	0.00120	0.00436	0.00549	0.00490
VC-24 1.00-1.10	MAR02246.030	Sediment	<0.00008	0.00008	0.00008	<0.00008
Certified Reference Material Nist 1941b (% Recovery)			105~	92	87	100
QC Blank			<0.00008	<0.00008	<0.00008	<0.00008

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Test Report ID MAR02246
Issue Version 1
Customer Reference Falmouth Harbour - MMO Testing

		Units	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)
		Method No	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302
		Limit of Detection	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008
		Accreditation	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO
Client Reference:	SOCOTEC Ref:	Matrix	PCB 101	PCB 105	PCB 110	PCB 118	PCB 128	PCB 138	PCB 141
VC-24 1.90-2.00	MAR02246.031	Sediment	0.00014	<0.00008	0.00010	<0.00008	<0.00008	0.00017	<0.00008
VC-25 0.00-0.10	MAR02246.032	Sediment	0.00022	<0.00008	0.00018	0.00021	0.00008	0.00035	<0.00008
VC-25 1.00-1.10	MAR02246.033	Sediment	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008
VC-25 2.00-2.10	MAR02246.034	Sediment	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008
VC-25 3.00-3.10	MAR02246.035	Sediment	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008
VC-25 3.90-4.00	MAR02246.036	Sediment	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008
Certified Reference Material Nist 1941b (% Recovery)			95	86	102	103	92	94	102~
QC Blank			<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008

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Customer Reference Falmouth Harbour - MMO Testing

		Units	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)
		Method No	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302
		Limit of Detection	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008
		Accreditation	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO
Client Reference:	SOCOTEC Ref:	Matrix	PCB 149	PCB 151	PCB 153	PCB 156	PCB 158	PCB 170	PCB 18
VC-24 1.90-2.00	MAR02246.031	Sediment	0.00011	<0.00008	0.00017	<0.00008	<0.00008	<0.00008	<0.00008
VC-25 0.00-0.10	MAR02246.032	Sediment	0.00028	<0.00008	0.00040	<0.00008	<0.00008	0.00011	<0.00008
VC-25 1.00-1.10	MAR02246.033	Sediment	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008
VC-25 2.00-2.10	MAR02246.034	Sediment	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008
VC-25 3.00-3.10	MAR02246.035	Sediment	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	0.00013
VC-25 3.90-4.00	MAR02246.036	Sediment	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008
Certified Reference Material Nist 1941b (% Recovery)			99	112~	95	97	86	101	83
QC Blank			<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008

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Test Report ID MAR02246
Issue Version 1
Customer Reference Falmouth Harbour - MMO Testing

		Units	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)
		Method No	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302
		Limit of Detection	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008
		Accreditation	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO
Client Reference:	SOCOTEC Ref:	Matrix	PCB 180	PCB 183	PCB 187	PCB 194	PCB 28	PCB 31	PCB 44
VC-24 1.90-2.00	MAR02246.031	Sediment	0.00012	<0.00008	0.00012	<0.00008	<0.00008	<0.00008	<0.00008
VC-25 0.00-0.10	MAR02246.032	Sediment	0.00022	0.00012	0.00020	0.00008	<0.00008	<0.00008	<0.00008
VC-25 1.00-1.10	MAR02246.033	Sediment	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008
VC-25 2.00-2.10	MAR02246.034	Sediment	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008
VC-25 3.00-3.10	MAR02246.035	Sediment	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008
VC-25 3.90-4.00	MAR02246.036	Sediment	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008
Certified Reference Material Nist 1941b (% Recovery)			103	70	107	98	79	97	87
QC Blank			<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008

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Test Report ID MAR02246
Issue Version 1
Customer Reference Falmouth Harbour - MMO Testing

		Units	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)
		Method No	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302
		Limit of Detection	0.00008	0.00008	0.00008	0.00008
		Accreditation	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO
Client Reference:	SOCOTEC Ref:	Matrix	PCB 47	PCB 49	PCB 52	PCB 66
VC-24 1.90-2.00	MAR02246.031	Sediment	<0.00008	<0.00008	<0.00008	<0.00008
VC-25 0.00-0.10	MAR02246.032	Sediment	<0.00008	0.00009	0.00011	<0.00008
VC-25 1.00-1.10	MAR02246.033	Sediment	<0.00008	<0.00008	<0.00008	<0.00008
VC-25 2.00-2.10	MAR02246.034	Sediment	<0.00008	<0.00008	<0.00008	<0.00008
VC-25 3.00-3.10	MAR02246.035	Sediment	<0.00008	<0.00008	<0.00008	<0.00008
VC-25 3.90-4.00	MAR02246.036	Sediment	<0.00008	<0.00008	<0.00008	<0.00008
Certified Reference Material Nist 1941b (% Recovery)			98~	94	84	99
QC Blank			<0.00008	<0.00008	<0.00008	<0.00008

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Test Report ID MAR02246
Issue Version 1
Customer Reference Falmouth Harbour - MMO Testing

		Units	mg/Kg (Dry Weight)							
		Method No	ASC/SOP/302							
		Limit of Detection	0.0001							
		Accreditation	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO
Client Reference:	SOCOTEC Ref:	Matrix	AHCH	BHCH	GHCH	DIELDRLN	HCB	PPTDE	PPDDE	PPDDT
VC-02 0.05-0.15	MAR02246.001	Sediment	<0.0001	<0.0001	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
VC-02 0.90-1.00	MAR02246.002	Sediment	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
VC-03 0.00-0.10	MAR02246.003	Sediment	<0.0001	<0.0001	0.0001	<0.0001	0.0001	0.0271	0.0055	0.0371
VC-03 1.00-1.10	MAR02246.004	Sediment	<0.0001	<0.0001	0.0003	<0.0001	<0.0001	0.0311	0.0068	0.0087
VC-03 2.00-2.10	MAR02246.005	Sediment	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.0014	0.0005	0.0002
VC-03 3.00-3.10	MAR02246.006	Sediment	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
VC-06 0.00-0.05	MAR02246.007	Sediment	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.0185	0.0048	0.0066
VC-06 1.00-1.10	MAR02246.008	Sediment	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.0003	<0.0001	<0.0001
VC-06 2.00-2.10	MAR02246.009	Sediment	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
VC-06 2.55-2.65	MAR02246.010	Sediment	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Certified Reference Material Nist 1941b (% Recovery)			90~	91~	89~	89~	103	77	84	63
QC Blank			<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001

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For full analyte name see method summaries.

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Test Report ID MAR02246
Issue Version 1
Customer Reference Falmouth Harbour - MMO Testing

		Units	mg/Kg (Dry Weight)							
		Method No	ASC/SOP/302							
		Limit of Detection	0.0001							
		Accreditation	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO
Client Reference:	SOCOTEC Ref:	Matrix	AHCH	BHCH	GHCH	DIELDIN	HCB	PPTDE	PPDDE	PPDDT
VC-07 0.00-0.10	MAR02246.011	Sediment	<0.0001	<0.0001	<0.0001	0.0002	<0.0001	0.0033	0.0009	0.0006
VC-07 1.00-1.10	MAR02246.012	Sediment	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
VC-07 1.20-1.30	MAR02246.013	Sediment	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
VC-09 0.00-0.10	MAR02246.014	Sediment	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.0078	0.0023	0.0021
VC-09 1.00-1.10	MAR02246.015	Sediment	<0.0001	<0.0001	<0.0001	0.0002	<0.0001	<0.0001	<0.0001	<0.0001
VC-09 2.00-2.10	MAR02246.016	Sediment	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
VC-09 3.00-3.10	MAR02246.017	Sediment	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
VC-09 4.00-4.10	MAR02246.018	Sediment	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
VC-09 5.00-5.10	MAR02246.019	Sediment	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
VC-11 0.00-0.10	MAR02246.020	Sediment	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.0150	0.0017	0.0019
Certified Reference Material Nist 1941b (% Recovery)			85~	98~	85~	103~	110	89	83	53
QC Blank			<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001

~ Indicates result is for an In-house Reference Material as no Certified Reference Materials are available.

For full analyte name see method summaries.

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Issuing Laboratory SOCOTEC, Marine Department, Advanced Chemistry and Research, Etwall House, Bretby Business Park, Ashby Road, Burton-upon-Trent DE15 0YZ

Test Report ID MAR02246
Issue Version 1
Customer Reference Falmouth Harbour - MMO Testing

		Units	mg/Kg (Dry Weight)							
		Method No	ASC/SOP/302							
		Limit of Detection	0.0001							
		Accreditation	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO
Client Reference:	SOCOTEC Ref:	Matrix	AHCH	BHCH	GHCH	DIELDIN	HCB	PPTDE	PPDDE	PPDDT
VC-11 1.00-1.10	MAR02246.021	Sediment	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
VC-11 2.00-2.10	MAR02246.022	Sediment	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
VC-11 3.00-3.10	MAR02246.023	Sediment	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
VC-11 4.00-4.10	MAR02246.024	Sediment	<0.0001	0.0001	0.0002	0.0003	<0.0001	0.0001	0.0001	<0.0001
VC-11 5.00-5.10	MAR02246.025	Sediment	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
VC-11 5.30-5.37	MAR02246.026	Sediment	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
VC-22 0.00-0.10	MAR02246.027	Sediment	<0.0001	<0.0001	<0.0001	0.0003	0.0010	0.0347	0.0047	0.0109
VC-22 1.00-1.10	MAR02246.028	Sediment	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.0002	<0.0001	<0.0001
VC-24 0.00-0.10	MAR02246.029	Sediment	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.0204	0.0042	0.0037
VC-24 1.00-1.10	MAR02246.030	Sediment	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.0002	<0.0001	<0.0001
Certified Reference Material Nist 1941b (% Recovery)			89~	99~	90~	102~	120	92	81	58
QC Blank			<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001

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For full analyte name see method summaries.

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Test Report ID MAR02246
Issue Version 1
Customer Reference Falmouth Harbour - MMO Testing

		Units	mg/Kg (Dry Weight)							
		Method No	ASC/SOP/302							
		Limit of Detection	0.0001							
		Accreditation	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO
Client Reference:	SOCOTEC Ref:	Matrix	AHCH	BHCH	GHCH	DIELDRIN	HCB	PPTDE	PPDDE	PPDDT
VC-24 1.90-2.00	MAR02246.031	Sediment	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
VC-25 0.00-0.10	MAR02246.032	Sediment	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.0004	<0.0001	<0.0001
VC-25 1.00-1.10	MAR02246.033	Sediment	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
VC-25 2.00-2.10	MAR02246.034	Sediment	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
VC-25 3.00-3.10	MAR02246.035	Sediment	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
VC-25 3.90-4.00	MAR02246.036	Sediment	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Certified Reference Material Nist 1941b (% Recovery)			97~	91~	94~	102~	123	102	98	77
QC Blank			<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001

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For full analyte name see method summaries.

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Test Report ID MAR02246
Issue Version 1
Customer Reference Falmouth Harbour - MMO Testing

		Units	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)
		Method No	ASC/SOP/308	ASC/SOP/308	ASC/SOP/308	ASC/SOP/308	ASC/SOP/308	ASC/SOP/308	ASC/SOP/308	ASC/SOP/308
		Limit of Detection	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005
		Accreditation	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO
Client Reference:	SOCOTEC Ref:	Matrix	BDE17	BDE28	BDE47	BDE66	BDE85	BDE99	BDE100	BDE138
VC-02 0.05-0.15	MAR02246.001	Sediment	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
VC-02 0.90-1.00	MAR02246.002	Sediment	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	0.00010	<0.00005	<0.00005
VC-03 0.00-0.10	MAR02246.003	Sediment	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
VC-03 1.00-1.10	MAR02246.004	Sediment	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
VC-03 2.00-2.10	MAR02246.005	Sediment	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
VC-03 3.00-3.10	MAR02246.006	Sediment	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
VC-06 0.00-0.05	MAR02246.007	Sediment	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
VC-06 1.00-1.10	MAR02246.008	Sediment	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
VC-06 2.00-2.10	MAR02246.009	Sediment	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
VC-06 2.55-2.65	MAR02246.010	Sediment	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Certified Reference Material Quasimeme SED56 (% Recovery)			109~	101	96	87~	87~	106	122	82~
QC Blank			<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005

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Test Report ID MAR02246
Issue Version 1
Customer Reference Falmouth Harbour - MMO Testing

		Units	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)
		Method No	ASC/SOP/308	ASC/SOP/308	ASC/SOP/308	ASC/SOP/308
		Limit of Detection	0.00005	0.00005	0.00005	0.0001
		Accreditation	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO
Client Reference:	SOCOTEC Ref:	Matrix	BDE153	BDE154	BDE183	BDE209
VC-02 0.05-0.15	MAR02246.001	Sediment	<0.00005	<0.00005	<0.00005	0.0012
VC-02 0.90-1.00	MAR02246.002	Sediment	<0.00005	<0.00005	<0.00005	0.0004
VC-03 0.00-0.10	MAR02246.003	Sediment	<0.00005	<0.00005	<0.00005	0.0160
VC-03 1.00-1.10	MAR02246.004	Sediment	<0.00005	<0.00005	<0.00005	0.0011
VC-03 2.00-2.10	MAR02246.005	Sediment	<0.00005	<0.00005	<0.00005	0.0008
VC-03 3.00-3.10	MAR02246.006	Sediment	<0.00005	<0.00005	<0.00005	0.0007
VC-06 0.00-0.05	MAR02246.007	Sediment	<0.00005	<0.00005	<0.00005	0.0003
VC-06 1.00-1.10	MAR02246.008	Sediment	<0.00005	<0.00005	<0.00005	0.0001
VC-06 2.00-2.10	MAR02246.009	Sediment	<0.00005	<0.00005	<0.00005	0.0001
VC-06 2.55-2.65	MAR02246.010	Sediment	<0.00005	<0.00005	<0.00005	0.0001
Certified Reference Material Quasimeme SED56 (% Recovery)			124	74~	81	74
QC Blank			<0.00005	<0.00005	<0.00005	<0.0001

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Test Report ID MAR02246
Issue Version 1
Customer Reference Falmouth Harbour - MMO Testing

		Units	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)
		Method No	ASC/SOP/308	ASC/SOP/308	ASC/SOP/308	ASC/SOP/308	ASC/SOP/308	ASC/SOP/308	ASC/SOP/308	ASC/SOP/308
		Limit of Detection	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005
		Accreditation	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO
Client Reference:	SOCOTEC Ref:	Matrix	BDE17	BDE28	BDE47	BDE66	BDE85	BDE99	BDE100	BDE138
VC-07 0.00-0.10	MAR02246.011	Sediment	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
VC-07 1.00-1.10	MAR02246.012	Sediment	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
VC-07 1.20-1.30	MAR02246.013	Sediment	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025
VC-09 0.00-0.10	MAR02246.014	Sediment	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
VC-09 1.00-1.10	MAR02246.015	Sediment	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025
VC-09 2.00-2.10	MAR02246.016	Sediment	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025
VC-09 3.00-3.10	MAR02246.017	Sediment	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025
VC-09 4.00-4.10	MAR02246.018	Sediment	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025
VC-09 5.00-5.10	MAR02246.019	Sediment	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
VC-11 0.00-0.10	MAR02246.020	Sediment	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025
Certified Reference Material Quasimeme SED56 (% Recovery)			117~	93	87	85~	118~	101	134	108~
QC Blank			<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005

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Test Report ID MAR02246
Issue Version 1
Customer Reference Falmouth Harbour - MMO Testing

		Units	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)
		Method No	ASC/SOP/308	ASC/SOP/308	ASC/SOP/308	ASC/SOP/308
		Limit of Detection	0.00005	0.00005	0.00005	0.0001
		Accreditation	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO
Client Reference:	SOCOTEC Ref:	Matrix	BDE153	BDE154	BDE183	BDE209
VC-07 0.00-0.10	MAR02246.011	Sediment	<0.00005	<0.00005	<0.00005	0.0019
VC-07 1.00-1.10	MAR02246.012	Sediment	<0.00005	<0.00005	<0.00005	0.0008
VC-07 1.20-1.30	MAR02246.013	Sediment	<0.00025	<0.00025	<0.00025	<0.0005
VC-09 0.00-0.10	MAR02246.014	Sediment	<0.00005	<0.00005	<0.00005	0.0094
VC-09 1.00-1.10	MAR02246.015	Sediment	<0.00025	<0.00025	<0.00025	<0.0005
VC-09 2.00-2.10	MAR02246.016	Sediment	<0.00025	<0.00025	<0.00025	<0.0005
VC-09 3.00-3.10	MAR02246.017	Sediment	<0.00025	<0.00025	<0.00025	<0.0005
VC-09 4.00-4.10	MAR02246.018	Sediment	<0.00025	<0.00025	<0.00025	0.0002
VC-09 5.00-5.10	MAR02246.019	Sediment	<0.00005	<0.00005	<0.00005	<0.0005
VC-11 0.00-0.10	MAR02246.020	Sediment	<0.00025	<0.00025	<0.00025	0.0022
Certified Reference Material Quasimeme SED56 (% Recovery)			115	81~	94	65
QC Blank			<0.00005	<0.00005	<0.00005	<0.0001

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Test Report ID MAR02246
Issue Version 1
Customer Reference Falmouth Harbour - MMO Testing

		Units	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)
		Method No	ASC/SOP/308	ASC/SOP/308	ASC/SOP/308	ASC/SOP/308	ASC/SOP/308	ASC/SOP/308	ASC/SOP/308	ASC/SOP/308
		Limit of Detection	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005
		Accreditation	UKAS/MMO	MMO*	MMO*	MMO*	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO
Client Reference:	SOCOTEC Ref:	Matrix	BDE17	BDE28	BDE47	BDE66	BDE85	BDE99	BDE100	BDE138
VC-11 1.00-1.10	MAR02246.021	Sediment	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025
VC-11 2.00-2.10	MAR02246.022	Sediment	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
VC-11 3.00-3.10	MAR02246.023	Sediment	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025
VC-11 4.00-4.10	MAR02246.024	Sediment	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025
VC-11 5.00-5.10	MAR02246.025	Sediment	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025
VC-11 5.30-5.37	MAR02246.026	Sediment	<0.00025	<0.00025	<0.00005	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025
VC-22 0.00-0.10	MAR02246.027	Sediment	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
VC-22 1.00-1.10	MAR02246.028	Sediment	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
VC-24 0.00-0.10	MAR02246.029	Sediment	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
VC-24 1.00-1.10	MAR02246.030	Sediment	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025
Certified Reference Material Quasimeme SED56 (% Recovery)			82~	81	70	69~	65~	75	99	73~
QC Blank			<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005

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Issue Version 1
Customer Reference Falmouth Harbour - MMO Testing

		Units	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)
		Method No	ASC/SOP/308	ASC/SOP/308	ASC/SOP/308	ASC/SOP/308
		Limit of Detection	0.00005	0.00005	0.00005	0.0001
		Accreditation	UKAS/MMO	MMO*	UKAS/MMO	UKAS/MMO
Client Reference:	SOCOTEC Ref:	Matrix	BDE153	BDE154	BDE183	BDE209
VC-11 1.00-1.10	MAR02246.021	Sediment	<0.00025	<0.00025	<0.00025	0.0011
VC-11 2.00-2.10	MAR02246.022	Sediment	<0.00005	<0.00005	<0.00005	0.0004
VC-11 3.00-3.10	MAR02246.023	Sediment	<0.00025	<0.00025	<0.00025	0.0005
VC-11 4.00-4.10	MAR02246.024	Sediment	<0.00025	<0.00025	<0.00025	0.0009
VC-11 5.00-5.10	MAR02246.025	Sediment	<0.00025	<0.00025	<0.00025	0.0018
VC-11 5.30-5.37	MAR02246.026	Sediment	<0.00025	<0.00025	<0.00025	0.0007
VC-22 0.00-0.10	MAR02246.027	Sediment	<0.00005	<0.00005	<0.00005	0.0035
VC-22 1.00-1.10	MAR02246.028	Sediment	<0.00005	<0.00005	<0.00005	0.0002
VC-24 0.00-0.10	MAR02246.029	Sediment	<0.00005	<0.00005	<0.00005	0.0028
VC-24 1.00-1.10	MAR02246.030	Sediment	<0.00025	<0.00025	<0.00025	0.0012
Certified Reference Material Quasimeme SED56 (% Recovery)			84	64~	72	51
QC Blank			<0.00005	<0.00005	<0.00005	<0.0001

* See Report Notes

MAR02246
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Certificate of Analysis



Issuing Laboratory SOCOTEC, Marine Department, Advanced Chemistry and Research, Etwall House, Bretby Business Park, Ashby Road, Burton-upon-Trent DE15 0YZ

Test Report ID MAR02246
Issue Version 1
Customer Reference Falmouth Harbour - MMO Testing

		Units	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)
		Method No	ASC/SOP/308	ASC/SOP/308	ASC/SOP/308	ASC/SOP/308	ASC/SOP/308	ASC/SOP/308	ASC/SOP/308	ASC/SOP/308
		Limit of Detection	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005
		Accreditation	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO
Client Reference:	SOCOTEC Ref:	Matrix	BDE17	BDE28	BDE47	BDE66	BDE85	BDE99	BDE100	BDE138
VC-24 1.90-2.00	MAR02246.031	Sediment	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025
VC-25 0.00-0.10	MAR02246.032	Sediment	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025
VC-25 1.00-1.10	MAR02246.033	Sediment	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
VC-25 2.00-2.10	MAR02246.034	Sediment	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025
VC-25 3.00-3.10	MAR02246.035	Sediment	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025
VC-25 3.90-4.00	MAR02246.036	Sediment	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	0.00040	<0.00025	<0.00025
Certified Reference Material Quasimeme SED56 (% Recovery)			113~	108	114	106~	103~	107	126	104~
QC Blank			<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005

* See Report Notes

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Test Report ID MAR02246
 Issue Version 1
 Customer Reference Falmouth Harbour - MMO Testing

		Units	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)
		Method No	ASC/SOP/308	ASC/SOP/308	ASC/SOP/308	ASC/SOP/308
		Limit of Detection	0.00005	0.00005	0.00005	0.0001
		Accreditation	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO
Client Reference:	SOCOTEC Ref:	Matrix	BDE153	BDE154	BDE183	BDE209
VC-24 1.90-2.00	MAR02246.031	Sediment	<0.00025	<0.00025	<0.00025	0.0018
VC-25 0.00-0.10	MAR02246.032	Sediment	<0.00025	<0.00025	<0.00025	0.0017
VC-25 1.00-1.10	MAR02246.033	Sediment	<0.00005	<0.00005	<0.00005	0.0002
VC-25 2.00-2.10	MAR02246.034	Sediment	<0.00025	<0.00025	<0.00025	0.0018
VC-25 3.00-3.10	MAR02246.035	Sediment	<0.00025	<0.00025	<0.00025	0.0026
VC-25 3.90-4.00	MAR02246.036	Sediment	<0.00025	<0.00025	<0.00025	0.0044
Certified Reference Material Quasimeme SED56 (% Recovery)			128	95~	88	92
QC Blank			<0.00005	<0.00005	<0.00005	<0.0002*

* See Report Notes

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Test Report ID MAR02246
Issue Version 1
Customer Reference Falmouth Harbour - MMO Testing

REPORT NOTES

Method Code	Sample ID	The following information should be taken into consideration when using the data contained within this report
*SUB_01	MAR02246.031-036	Analysis was conducted by an approved subcontracted laboratory.
WSLM59*	MAR02246.031-036	Analysis was conducted by an internal SOCOTEC laboratory. UKAS accredited analysis by this laboratory is under UKAS number 1252.
ICPMSS*	MAR02246.031-036	Analysis was conducted by an internal SOCOTEC laboratory. UKAS accredited analysis by this laboratory is under UKAS number 1252.
ASC/SOP/301	MAR02246.001-036	The matrix of this sample has been found to interfere with the result for this test. The sample has therefore been diluted, but in doing so, the detection limit for this test has been elevated.
ASC/SOP/303/304	MAR02246.015-019, .021-026, 033-036	The matrix of this sample has been found to interfere with the result for this test. The sample has therefore been diluted, but in doing so, the detection limit for this test has been elevated.
ASC/SOP/303/304	MAR02246.001-015	The Primary process control data associated with this Test has not wholly met the requirements of the Laboratory Quality Management System QMS with one or more target analytes falling outside acceptable limits. The remaining data gives the Laboratory confidence that the test has performed satisfactorily and that the validity of the data may not have been significantly affected. However in line with our QMS policy we have removed accreditation, where applicable, from the affected analytes (ACENAPTH, FLUORENE) . These circumstances should be taken into consideration when utilising the data.
ASC/SOP/303/304	MAR02246.031-036	The Primary process control data associated with this Test has not wholly met the requirements of the Laboratory Quality Management System QMS with one or more target analytes falling outside acceptable limits. The remaining data gives the Laboratory confidence that the test has performed satisfactorily and that the validity of the data may not have been significantly affected. However in line with our QMS policy we have removed accreditation, where applicable, from the affected analytes (FLUORENE) . These circumstances should be taken into consideration when utilising the data.
ASC/SOP/303/304	MAR02246.001-036	Benzo[k]fluoranthene is known to coelute with Benzo[j]fluoranthene and these peaks can not be resolved. It is believed Benzo[j]fluoranthene is present in these samples therefore it is suggested that the Benzo[k]fluoranthene results should be taken as a Benzo[k]fluoranthene (inc. Benzo[j]fluoranthene). Benzo[j]fluoranthene is not UKAS accredited. This should be taken into consideration when utilising the data.
ASC/SOP/303/304	MAR02246.001-036	Chrysene is known to coelute with Triphenylene and these peaks can not be resolved in the PAHSED UKAS accredited method. Chrysene and Triphenylene are resolved for MMO but this is currently not UKAS accredited therefore Chrysene is reported without this accreditation.
ASC/SOP/308	MAR02246.013, .015-018, .020-021, .023-026, .030-032, .034-036	Due to limited sample a smaller volume has been extracted, in doing so, the detection limit for this test has been elevated.
ASC/SOP/308	MAR02246.021-030	The Primary process control data associated with this Test has not wholly met the requirements of the Laboratory Quality Management System QMS with one or more target analytes falling outside acceptable limits. The remaining data gives the Laboratory confidence that the test has performed satisfactorily and that the validity of the data may not have been significantly affected. However in line with our QMS policy we have removed accreditation, where applicable, from the affected analytes (BDE28, BDE47, BDE66, BDE154) . These circumstances should be taken into consideration when utilising the data.
ASC/SOP/308	MAR02246.030-036	The Primary process control blank data associated with this Test has not wholly met the requirements of the Laboratory Quality Management System QMS with BDE209 falling above acceptable reporting limits. The remaining data gives the Laboratory confidence that the test has performed satisfactorily and that the validity of the data may not have been significantly affected. However in line with our QMS policy the report limit for this compound has been raised.

DEVIATING SAMPLE STATEMENT

Deviation Code	Deviation Definition	Sample ID	Deviation Details. The following information should be taken into consideration when using the data contained within this report
D1	Holding Time Exceeded	N/A	N/A
D2	Sample Contaminated through Damaged Packaging	N/A	N/A
D3	Sample Contaminated through Sampling	N/A	N/A
D4	Inappropriate Container/Packaging	N/A	N/A
D5	Damaged in Transit	N/A	N/A
D6	Insufficient Quantity of Sample	N/A	N/A
D7	Inappropriate Headspace	N/A	N/A
D8	Retained at Incorrect Temperature	N/A	N/A
D9	Lack of Date & Time of Sampling	N/A	N/A
D10	Insufficient Sample Details	N/A	N/A
D11	Sample integrity compromised or not suitable for analysis	N/A	N/A

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Test Report ID MAR02246
 Issue Version 1
 Customer Reference Falmouth Harbour - MMO Testing

Method	Sample and Fraction Size	Method Summary
Particle Size Analysis	Wet Sediment	Wet and dry sieving followed by laser diffraction analysis.
Total Organic Carbon (TOC)	Air dried	Carbonate removal and sulphurous acid/combustion at 1600°C/NDIR.
Metals	Air dried	Aqua-regia extraction followed by ICP analysis.
Organotins	Wet Sediment	Solvent extraction and derivatisation followed by GC-MS analysis.
Polyaromatic Hydrocarbons (PAH)	Wet Sediment	Solvent extraction and clean up followed by GC-MS analysis.
Total Hydrocarbon Content (THC)	Wet Sediment	Ultra-violet fluorescence spectroscopy
Polychlorinated Biphenyls (PCBs)	Air dried and sieved to <2mm	Solvent extraction and clean up followed by GC-MS-MS analysis.
Organochlorine Pesticides (OCPs)	Air dried and sieved to <2mm	Solvent extraction and clean up followed by GC-MS-MS analysis.
Brominated Flame Retardants (PBDEs)	Air dried and sieved to <2mm	Solvent extraction and clean up followed by GC-MS-MS analysis.

Analyte Definitions					
Analyte Abbreviation	Full Analyte name	Analyte Abbreviation	Full Analyte name	Analyte Abbreviation	Full Analyte name
ACENAPTH	Acenaphthene	C2N	C2-naphthalenes	THC	Total Hydrocarbon Content
ACENAPHY	Acenaphthylene	C3N	C3-naphthalenes	AHCH	alpha-Hexachlorocyclohexane
ANTHRACN	Anthracene	CHRYSENE	Chrysene	BHCH	beta-Hexachlorocyclohexane
BAA	Benzo[a]anthracene	DBENZAH	Dibenzo[ah]anthracene	GHCH	gamma-Hexachlorocyclohexane
BAP	Benzo[a]pyrene	FLUORANT	Fluoranthene	DIELDRIN	Dieldrin
BBF	Benzo[b]fluoranthene	FLUORENE	Fluorene	HCB	Hexachlorobenzene
BEP	Benzo[e]pyrene	INDPYR	Indeno[1,2,3-cd]pyrene	PPDDE	p,p'-Dichlorodiphenyldichloroethylene
BENZGHIP	Benzo[ghi]perylene	NAPTH	Naphthalene	PPDDT	p,p'-Dichlorodiphenyltrichloroethane
BKF	Benzo[k]fluoranthene	PERYLENE	Perylene	PPTDE	p,p'-Dichlorodiphenyldichloroethane
C1N	C1-naphthalenes	PHENANT	Phenanthrene		
C1PHEN	C1-phenanthrene	PYRENE	Pyrene		

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Issuing Laboratory SOCOTEC, Marine Department, Advanced Chemistry and Research, Etwall House, Bretby Business Park, Ashby Road, Burton-upon-Trent DE15 0YZ



Test Report ID MAR02248

Issue Version: 1

Customer: Geotechnical Engineering Ltd, Centurion House, Olympus Park, Quedgley, Gloucester, GL2 4NF

Customer Reference: Falmouth Harbour - MMO Testing

Date Sampled: 25-Mar-24

Date Samples Received: 27-Mar-24

Test Report Date: 26-Apr-24

Condition of samples: Cold Satisfactory

Opinions and Interpretations expressed herein are outside the scope of our UKAS accreditation
The results reported relate only to the sample tested
The results apply to the sample as received

J Colbourne

Authorised by: Jane Colbourne

Position: Customer Service Specialist



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Issuing Laboratory SOCOTEC, Marine Department, Advanced Chemistry and Research, Etwall House, Bretby Business Park, Ashby Road, Burton-upon-Trent DE15 0YZ

Test Report ID MAR02248
Issue Version 1
Customer Reference Falmouth Harbour - MMO Testing

		Units	% M/M	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)
		Method No	WSLM59*	*SUB_01	*SUB_01	*SUB_01	*SUB_01	*SUB_01	*SUB_01
		Accreditation	UKAS/MMO	MMO	MMO	MMO	MMO	MMO	MMO
			Total Organic Carbon	45mm	31.5mm	22.4mm	16mm	11.2mm	8mm
Client Reference:	SOCOTEC Ref:	Matrix	-	-5.5	-5.0	-4.5	-4.0	-3.5	-3.0
VC-01 0.00-0.10m	MAR02248.001	Sediment	2.47	0.00	0.00	0.00	0.00	0.00	0.00
VC-01 1.00-1.10m	MAR02248.002	Sediment	1.23	0.00	0.00	0.00	0.00	0.00	0.00
VC-01 2.00-2.10m	MAR02248.003	Sediment	1.32	0.00	0.00	0.00	0.00	0.00	0.00
VC-01 3.00-3.10m	MAR02248.004	Sediment	1.23	0.00	0.00	0.00	0.00	0.00	0.00
VC-01 3.55-3.65m	MAR02248.005	Sediment	0.43	0.00	0.00	8.40	8.03	4.27	10.32
VC-05 0.00-0.10m	MAR02248.006	Sediment	2.56	0.00	0.00	0.00	0.00	0.00	0.00
VC-05 1.00-1.10m	MAR02248.007	Sediment	1.23	0.00	0.00	0.00	0.00	0.00	0.77
VC-05 2.00-2.10m	MAR02248.008	Sediment	0.30	0.00	0.00	0.00	0.00	0.00	0.00
VC-05 3.00-3.10m	MAR02248.009	Sediment	0.41	0.00	0.00	0.00	0.00	0.00	0.00
VC-05 3.90-4.00m	MAR02248.010	Sediment	0.20	0.00	0.00	0.00	6.14	1.89	2.48
VC-15 0.00-0.10m	MAR02248.011	Sediment	2.14	0.00	0.00	14.02	11.11	6.90	0.00
VC-15 1.00-1.10m	MAR02248.012	Sediment	0.18	0.00	0.00	17.46	18.62	3.98	4.13

* See Report Notes

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		Units	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)
		Method No	*SUB_01	*SUB_01	*SUB_01	*SUB_01	*SUB_01	*SUB_01	*SUB_01
		Accreditation	MMO	MMO	MMO	MMO	MMO	MMO	MMO
			5.6mm	4mm	2.8mm	2mm	1.4mm	1mm	707µm
Client Reference:	SOCOTEC Ref:	Matrix	-2.5	-2.0	-1.5	-1.0	-0.5	0.0	0.5
VC-01 0.00-0.10m	MAR02248.001	Sediment	0.00	0.00	0.00	0.00	0.00	0.00	0.00
VC-01 1.00-1.10m	MAR02248.002	Sediment	0.00	0.00	0.00	0.00	0.00	0.00	0.00
VC-01 2.00-2.10m	MAR02248.003	Sediment	0.00	0.00	0.00	0.00	0.00	0.00	0.00
VC-01 3.00-3.10m	MAR02248.004	Sediment	0.00	0.00	0.00	0.00	0.00	0.00	0.00
VC-01 3.55-3.65m	MAR02248.005	Sediment	5.69	4.39	6.31	3.48	2.80	1.97	0.00
VC-05 0.00-0.10m	MAR02248.006	Sediment	0.00	0.00	0.00	0.00	0.00	0.00	0.00
VC-05 1.00-1.10m	MAR02248.007	Sediment	1.14	1.99	4.64	3.38	3.18	2.47	0.00
VC-05 2.00-2.10m	MAR02248.008	Sediment	0.00	0.00	0.00	0.00	0.00	0.00	0.00
VC-05 3.00-3.10m	MAR02248.009	Sediment	0.00	0.00	0.00	0.00	0.00	0.00	0.00
VC-05 3.90-4.00m	MAR02248.010	Sediment	5.09	4.01	2.83	1.61	1.51	1.28	0.00
VC-15 0.00-0.10m	MAR02248.011	Sediment	2.12	2.45	2.21	2.74	2.51	2.52	0.00
VC-15 1.00-1.10m	MAR02248.012	Sediment	4.86	7.55	7.54	4.79	4.26	3.32	0.00

* See Report Notes

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Customer Reference Falmouth Harbour - MMO Testing

		Units	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)
		Method No	*SUB_01	*SUB_01	*SUB_01	*SUB_01	*SUB_01	*SUB_01	*SUB_01
		Accreditation	MMO	MMO	MMO	MMO	MMO	MMO	MMO
			500µm	353.6µm	250µm	176.8µm	125µm	88.39µm	63µm
Client Reference:	SOCOTEC Ref:	Matrix	1.0	1.5	2.0	2.5	3.0	3.5	4.0
VC-01 0.00-0.10m	MAR02248.001	Sediment	0.00	0.00	0.45	7.54	10.78	8.12	8.36
VC-01 1.00-1.10m	MAR02248.002	Sediment	0.00	0.00	0.00	0.00	1.15	4.14	4.60
VC-01 2.00-2.10m	MAR02248.003	Sediment	0.00	0.00	0.00	0.10	2.65	5.45	6.26
VC-01 3.00-3.10m	MAR02248.004	Sediment	0.00	0.00	0.00	0.00	1.00	4.53	6.07
VC-01 3.55-3.65m	MAR02248.005	Sediment	0.00	0.00	0.00	0.00	0.04	1.37	2.25
VC-05 0.00-0.10m	MAR02248.006	Sediment	0.00	0.00	0.50	10.02	15.26	10.91	9.40
VC-05 1.00-1.10m	MAR02248.007	Sediment	0.00	0.00	0.62	7.38	12.11	10.86	9.03
VC-05 2.00-2.10m	MAR02248.008	Sediment	0.00	0.00	0.00	0.00	0.03	1.69	3.71
VC-05 3.00-3.10m	MAR02248.009	Sediment	0.00	0.00	0.00	0.00	0.07	2.90	5.02
VC-05 3.90-4.00m	MAR02248.010	Sediment	0.00	0.00	0.00	0.03	2.74	5.98	5.94
VC-15 0.00-0.10m	MAR02248.011	Sediment	0.00	0.00	0.00	1.00	3.92	2.78	2.39
VC-15 1.00-1.10m	MAR02248.012	Sediment	0.00	0.00	0.00	0.00	0.09	1.66	1.89

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		Units	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)
		Method No	*SUB_01	*SUB_01	*SUB_01	*SUB_01	*SUB_01	*SUB_01	*SUB_01
		Accreditation	MMO	MMO	MMO	MMO	MMO	MMO	MMO
			44.2µm	31.3µm	22.1µm	15.6µm	11µm	7.8µm	5.5µm
Client Reference:	SOCOTEC Ref:	Matrix	4.5	5.0	5.5	6.0	6.5	7.0	7.5
VC-01 0.00-0.10m	MAR02248.001	Sediment	8.54	8.64	8.34	8.58	8.10	6.57	5.05
VC-01 1.00-1.10m	MAR02248.002	Sediment	7.35	9.64	8.93	8.88	8.04	6.74	6.38
VC-01 2.00-2.10m	MAR02248.003	Sediment	9.00	10.59	9.00	8.38	7.60	6.44	5.96
VC-01 3.00-3.10m	MAR02248.004	Sediment	8.33	10.30	9.23	9.03	8.35	7.08	6.34
VC-01 3.55-3.65m	MAR02248.005	Sediment	2.70	3.77	3.70	4.00	3.94	3.53	3.27
VC-05 0.00-0.10m	MAR02248.006	Sediment	8.20	7.26	6.19	6.32	6.25	5.28	4.25
VC-05 1.00-1.10m	MAR02248.007	Sediment	7.12	5.51	4.00	3.90	3.88	3.50	3.19
VC-05 2.00-2.10m	MAR02248.008	Sediment	5.52	8.50	9.26	10.28	9.78	7.99	6.73
VC-05 3.00-3.10m	MAR02248.009	Sediment	5.34	7.41	7.60	8.87	8.81	7.56	7.02
VC-05 3.90-4.00m	MAR02248.010	Sediment	6.73	6.80	5.74	5.67	5.43	4.68	4.13
VC-15 0.00-0.10m	MAR02248.011	Sediment	4.79	4.29	4.07	5.45	5.10	4.49	4.05
VC-15 1.00-1.10m	MAR02248.012	Sediment	1.50	1.61	1.32	1.78	2.05	2.05	2.02

* See Report Notes

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Issue Version 1
Customer Reference Falmouth Harbour - MMO Testing

		Units	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)
		Method No	*SUB_01	*SUB_01	*SUB_01	*SUB_01	*SUB_01	*SUB_01	*SUB_01
		Accreditation	MMO	MMO	MMO	MMO	MMO	MMO	MMO
			3.9µm	2.75µm	1.95µm	1.38µm	0.98µm	0.69µm	0.49µm
Client Reference:	SOCOTEC Ref:	Matrix	8.0	8.5	9.0	9.5	10.0	10.5	11.0
VC-01 0.00-0.10m	MAR02248.001	Sediment	3.49	2.22	1.32	0.82	0.59	0.51	0.48
VC-01 1.00-1.10m	MAR02248.002	Sediment	5.75	4.83	4.14	3.75	3.24	2.73	2.46
VC-01 2.00-2.10m	MAR02248.003	Sediment	5.26	4.37	3.59	3.08	2.60	2.16	1.87
VC-01 3.00-3.10m	MAR02248.004	Sediment	5.45	4.52	3.73	3.21	2.74	2.31	1.99
VC-01 3.55-3.65m	MAR02248.005	Sediment	2.82	2.29	1.82	1.52	1.29	1.17	1.17
VC-05 0.00-0.10m	MAR02248.006	Sediment	3.06	2.02	1.24	0.79	0.58	0.50	0.46
VC-05 1.00-1.10m	MAR02248.007	Sediment	2.66	2.01	1.41	1.03	0.82	0.69	0.62
VC-05 2.00-2.10m	MAR02248.008	Sediment	5.45	4.36	3.61	3.12	2.76	2.78	3.18
VC-05 3.00-3.10m	MAR02248.009	Sediment	6.00	4.82	4.03	3.50	2.94	2.97	3.66
VC-05 3.90-4.00m	MAR02248.010	Sediment	3.40	2.63	2.00	1.60	1.37	1.36	1.51
VC-15 0.00-0.10m	MAR02248.011	Sediment	3.24	2.31	1.54	0.97	0.57	0.44	0.54
VC-15 1.00-1.10m	MAR02248.012	Sediment	1.73	1.31	0.93	0.68	0.53	0.45	0.45

* See Report Notes

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Test Report ID MAR02248
Issue Version 1
Customer Reference Falmouth Harbour - MMO Testing

		Units	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)
		Method No	*SUB_01	*SUB_01	*SUB_01	*SUB_01	*SUB_01	*SUB_01	*SUB_01
		Accreditation	MMO	MMO	MMO	MMO	MMO	MMO	MMO
			0.34µm	0.24µm	0.17µm	0.12µm	0.09µm	0.06µm	0.04µm
Client Reference:	SOCOTEC Ref:	Matrix	11.5	12.0	12.5	13.0	13.5	14.0	14.5
VC-01 0.00-0.10m	MAR02248.001	Sediment	0.44	0.38	0.29	0.21	0.13	0.05	0.01
VC-01 1.00-1.10m	MAR02248.002	Sediment	2.27	1.94	1.40	0.93	0.52	0.19	0.02
VC-01 2.00-2.10m	MAR02248.003	Sediment	1.66	1.42	1.08	0.79	0.49	0.19	0.02
VC-01 3.00-3.10m	MAR02248.004	Sediment	1.72	1.44	1.10	0.80	0.50	0.19	0.02
VC-01 3.55-3.65m	MAR02248.005	Sediment	1.16	1.01	0.71	0.46	0.24	0.09	0.01
VC-05 0.00-0.10m	MAR02248.006	Sediment	0.43	0.38	0.29	0.22	0.14	0.06	0.01
VC-05 1.00-1.10m	MAR02248.007	Sediment	0.57	0.50	0.40	0.31	0.20	0.08	0.01
VC-05 2.00-2.10m	MAR02248.008	Sediment	3.47	3.16	2.23	1.39	0.71	0.23	0.03
VC-05 3.00-3.10m	MAR02248.009	Sediment	4.21	3.71	2.23	1.02	0.28	0.03	0.00
VC-05 3.90-4.00m	MAR02248.010	Sediment	1.61	1.47	1.08	0.71	0.39	0.14	0.02
VC-15 0.00-0.10m	MAR02248.011	Sediment	0.63	0.51	0.25	0.07	0.00	0.00	0.00
VC-15 1.00-1.10m	MAR02248.012	Sediment	0.45	0.40	0.28	0.18	0.09	0.03	0.00

* See Report Notes

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Test Report ID MAR02248
 Issue Version 1
 Customer Reference Falmouth Harbour - MMO Testing

		Units	% (at 0.5phi intervals)
		Method No	*SUB_01
		Accreditation	MMO
			<0.04µm
Client Reference:	SOCOTEC Ref:	Matrix	>14.5
VC-01 0.00-0.10m	MAR02248.001	Sediment	0.00
VC-01 1.00-1.10m	MAR02248.002	Sediment	0.00
VC-01 2.00-2.10m	MAR02248.003	Sediment	0.00
VC-01 3.00-3.10m	MAR02248.004	Sediment	0.00
VC-01 3.55-3.65m	MAR02248.005	Sediment	0.00
VC-05 0.00-0.10m	MAR02248.006	Sediment	0.00
VC-05 1.00-1.10m	MAR02248.007	Sediment	0.00
VC-05 2.00-2.10m	MAR02248.008	Sediment	0.00
VC-05 3.00-3.10m	MAR02248.009	Sediment	0.00
VC-05 3.90-4.00m	MAR02248.010	Sediment	0.00
VC-15 0.00-0.10m	MAR02248.011	Sediment	0.00
VC-15 1.00-1.10m	MAR02248.012	Sediment	0.00

* See Report Notes

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Test Report ID MAR02248
Issue Version 1
Customer Reference Falmouth Harbour - MMO Testing

		Units	mg/Kg (Dry Weight)							
		Method No	ICPMSS*							
		Limit of Detection	0.5	0.04	0.5	0.5	0.01	0.5	0.5	2
		Accreditation	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO
Client Reference:	SOCOTEC Ref:	Matrix	Arsenic (As)	Cadmium (Cd)	Chromium (Cr)	Copper (Cu)	Mercury (Hg)	Nickel (Ni)	Lead (Pb)	Zinc (Zn)
VC-01 0.00-0.10m	MAR02248.001	Sediment	52.9	0.50	43.4	1306	2.56	34.9	193	767
VC-01 1.00-1.10m	MAR02248.002	Sediment	5.8	0.19	8.8	17.4	0.08	8.2	7.5	65.8
VC-01 2.00-2.10m	MAR02248.003	Sediment	12.5	0.50	26.2	14.6	0.05	22.0	15.3	128
VC-01 3.00-3.10m	MAR02248.004	Sediment	13.4	0.48	24.4	12.4	0.04	21.0	14.4	120
VC-01 3.55-3.65m	MAR02248.005	Sediment	54.5	0.52	22.7	44.6	0.09	31.0	27.6	183
VC-05 0.00-0.10m	MAR02248.006	Sediment	41.8	0.25	33.1	794	3.32	31.4	166	615
VC-05 1.00-1.10m	MAR02248.007	Sediment	29.3	0.26	20.7	106	0.38	23.2	64.1	160
VC-05 2.00-2.10m	MAR02248.008	Sediment	11.2	0.17	38.4	17.2	0.04	26.7	17.7	91.5
VC-05 3.00-3.10m	MAR02248.009	Sediment	16.6	0.72	31.2	14.8	0.03	31.9	18.9	115
VC-05 3.90-4.00m	MAR02248.010	Sediment	4.3	0.16	28.3	25.3	0.06	28.5	20.2	103
VC-15 0.00-0.10m	MAR02248.011	Sediment	43.0	0.45	33.2	704	2.15	79.1	643	2653
VC-15 1.00-1.10m	MAR02248.012	Sediment	7.0	0.17	20.5	38.6	0.07	32.7	30.9	156
Certified Reference Material SETOC 768 (% Recovery)			107	108	113	107	109	107	108	109
QC Blank			<0.5	<0.04	<0.5	<0.5	<0.01	<0.5	<0.5	<2

* See Report Notes

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Test Report ID MAR02248
 Issue Version 1
 Customer Reference Falmouth Harbour - MMO Testing

		Units	mg/Kg (Dry Weight)	
		Method No	ASC/SOP/301	
		Limit of Detection	0.001	0.001
		Accreditation	UKAS/MMO	UKAS/MMO
Client Reference:	SOCOTEC Ref:	Matrix	Dibutyltin (DBT)	Tributyltin (TBT)
VC-01 0.00-0.10m	MAR02248.001	Sediment	1.24	13.6
VC-01 1.00-1.10m	MAR02248.002	Sediment	<0.005	0.015
VC-01 2.00-2.10m	MAR02248.003	Sediment	<0.005	0.013
VC-01 3.00-3.10m	MAR02248.004	Sediment	<0.005	<0.005
VC-01 3.55-3.65m	MAR02248.005	Sediment	0.176	2.49
VC-05 0.00-0.10m	MAR02248.006	Sediment	2.12	10.4
Certified Reference Material BCR-646 (% Recovery)			97	106
QC Blank			<0.001	<0.001

* See Report Notes

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Test Report ID MAR02248
 Issue Version 1
 Customer Reference Falmouth Harbour - MMO Testing

		Units	mg/Kg (Dry Weight)	
		Method No	ASC/SOP/301	
		Limit of Detection	0.001	0.001
		Accreditation	UKAS/MMO	UKAS/MMO
Client Reference:	SOCOTEC Ref:	Matrix	Dibutyltin (DBT)	Tributyltin (TBT)
VC-05 1.00-1.10m	MAR02248.007	Sediment	0.019	0.327
VC-05 2.00-2.10m	MAR02248.008	Sediment	<0.005	<0.005
VC-05 3.00-3.10m	MAR02248.009	Sediment	<0.005	<0.005
VC-05 3.90-4.00m	MAR02248.010	Sediment	<0.005	0.023
VC-15 0.00-0.10m	MAR02248.011	Sediment	0.072	0.205
VC-15 1.00-1.10m	MAR02248.012	Sediment	<0.005	<0.005
Certified Reference Material BCR-646 (% Recovery)			64	71
QC Blank			<0.001	<0.001

* See Report Notes

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Test Report ID MAR02248
Issue Version 1
Customer Reference Falmouth Harbour - MMO Testing

		Units	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)
		Method No	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304
		Limit of Detection	1	1	1	1	1	1	1	1
		Accreditation	MMO*	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO
Client Reference:	SOCOTEC Ref:	Matrix	ACENAPTH	ACENAPHY	ANTHRACN	BAA	BAP	BBF	BENZGHIP	BEP
VC-01 0.00-0.10m	MAR02248.001	Sediment	786	131	319	1490	2700	2540	1740	1710
VC-01 1.00-1.10m	MAR02248.002	Sediment	<5	<5	<5	<5	17.8	16.6	16.1	13.8
VC-01 2.00-2.10m	MAR02248.003	Sediment	<5	<5	<5	<5	<5	<5	<5	<5
VC-01 3.00-3.10m	MAR02248.004	Sediment	<5	<5	<5	<5	<5	<5	<5	<5
VC-01 3.55-3.65m	MAR02248.005	Sediment	<5	<5	<5	6.79	11.0	11.0	7.66	7.48
VC-05 0.00-0.10m	MAR02248.006	Sediment	459	132	370	1660	2580	2290	1650	1580
VC-05 1.00-1.10m	MAR02248.007	Sediment	23.8	35.3	78.1	344	603	533	330	315
VC-05 2.00-2.10m	MAR02248.008	Sediment	<5	<5	<5	<5	<5	<5	<5	<5
VC-05 3.00-3.10m	MAR02248.009	Sediment	<5	<5	<5	<5	<5	<5	<5	<5
VC-05 3.90-4.00m	MAR02248.010	Sediment	<5	<5	<5	<5	8.40	8.14	<5	6.33
Certified Reference Material Nist 1941b (% Recovery)			100	111	65	68	65	84	77	76
QC Blank			<1	<1	<1	<1	<1	<1	<1	<1

~ Indicates result is for an In-house Reference Material as no Certified Reference Materials are available.

For full analyte name see method summaries.

*See report notes

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Test Report ID MAR02248
Issue Version 1
Customer Reference Falmouth Harbour - MMO Testing

		Units	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)
		Method No	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304
		Limit of Detection	1	1	1	1	1	1	1	1
		Accreditation	UKAS/MMO	MMO	MMO	MMO	MMO	MMO	UKAS/MMO	UKAS/MMO
Client Reference:	SOCOTEC Ref:	Matrix	BKF*	C1N	C1PHEN	C2N	C3N	CHRYSENE*	DBENZAH	FLUORANT
VC-01 0.00-0.10m	MAR02248.001	Sediment	2220	352	884	389	210	1760	359	3560
VC-01 1.00-1.10m	MAR02248.002	Sediment	13.3	<5	<5	13.6	<5	<5	<5	8.36
VC-01 2.00-2.10m	MAR02248.003	Sediment	<5	<5	<5	9.08	<5	<5	<5	<5
VC-01 3.00-3.10m	MAR02248.004	Sediment	<5	<5	<5	9.52	<5	<5	<5	<5
VC-01 3.55-3.65m	MAR02248.005	Sediment	10.1	<5	<5	<5	<5	9.20	<5	11.6
VC-05 0.00-0.10m	MAR02248.006	Sediment	2070	384	851	336	284	1870	407	3240
VC-05 1.00-1.10m	MAR02248.007	Sediment	497	35.6	168	43.1	39.2	387	93.6	592
VC-05 2.00-2.10m	MAR02248.008	Sediment	<5	<5	<5	<5	<5	<5	<5	<5
VC-05 3.00-3.10m	MAR02248.009	Sediment	<5	<5	<5	<5	<5	<5	<5	<5
VC-05 3.90-4.00m	MAR02248.010	Sediment	7.48	<5	<5	<5	<5	<5	<5	<5
Certified Reference Material Nist 1941b (% Recovery)			79	77	96	114	119	86	105	87
QC Blank			<1	<1	<1	<1	<1	<1	<1	<1

~ Indicates result is for an In-house Reference Material as no Certified Reference Materials are available.

For full analyte name see method summaries.

*See report notes

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Test Report ID MAR02248
Issue Version 1
Customer Reference Falmouth Harbour - MMO Testing

		Units	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	mg/Kg
		Method No	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/305
		Limit of Detection	1	1	1	1	1	1	1
		Accreditation	MMO*	UKAS/MMO	UKAS/MMO	MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO
Client Reference:	SOCOTEC Ref:	Matrix	FLUORENE	INDPYR	NAPTH	PERYLENE	PHENANT	PYRENE	THC
VC-01 0.00-0.10m	MAR02248.001	Sediment	418	1900	141	550	1910	3840	471
VC-01 1.00-1.10m	MAR02248.002	Sediment	<5	14.1	<5	71.1	<5	21.6	5.86
VC-01 2.00-2.10m	MAR02248.003	Sediment	<5	<5	<5	76.8	<5	<5	4.40
VC-01 3.00-3.10m	MAR02248.004	Sediment	<5	<5	<5	83.7	<5	<5	3.11
VC-01 3.55-3.65m	MAR02248.005	Sediment	<5	7.37	<5	35.0	<5	15.10	45.5
VC-05 0.00-0.10m	MAR02248.006	Sediment	269	1790	261	535	1650	3270	1228
VC-05 1.00-1.10m	MAR02248.007	Sediment	33.4	371	33.1	97.5	240	588	741
VC-05 2.00-2.10m	MAR02248.008	Sediment	<5	<5	<5	<5	<5	<5	<1
VC-05 3.00-3.10m	MAR02248.009	Sediment	<5	<5	<5	<5	<5	<5	<1
VC-05 3.90-4.00m	MAR02248.010	Sediment	<5	<5	<5	<5	<5	8.30	<1
Certified Reference Material Nist 1941b (% Recovery)			57	76	60	50	74	72	88~
QC Blank			<1	<1	<1	<1	<1	<1	<1

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For full analyte name see method summaries.

*See report notes

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Test Report ID MAR02248
 Issue Version 1
 Customer Reference Falmouth Harbour - MMO Testing

		Units	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)
		Method No	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304
		Limit of Detection	1	1	1	1	1	1	1	1
		Accreditation	UKAS/MMO	MMO*	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO
Client Reference:	SOCOTEC Ref:	Matrix	ACENAPTH	ACENAPHY	ANTHRACN	BAA	BAP	BBF	BENZGHIP	BEP
VC-15 0.00-0.10m	MAR02248.011	Sediment	50.7	197	174	572	1260	1140	933	871
VC-15 1.00-1.10m	MAR02248.012	Sediment	<1	<1	<1	1.39	3.14	2.89	2.27	2.30
Certified Reference Material Nist 1941b (% Recovery)			89	106	66	62	62	82	78	75
QC Blank			<1	<1	<1	<1	<1	<1	<1	<1

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*See report notes

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Test Report ID MAR02248
Issue Version 1
Customer Reference Falmouth Harbour - MMO Testing

		Units	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)
		Method No	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304
		Limit of Detection	1	1	1	1	1	1	1	1
		Accreditation	UKAS/MMO	MMO	MMO	MMO	MMO	MMO	UKAS/MMO	UKAS/MMO
Client Reference:	SOCOTEC Ref:	Matrix	BKF*	C1N	C1PHEN	C2N	C3N	CHRYSENE*	DBENZAH	FLUORANT
VC-15 0.00-0.10m	MAR02248.011	Sediment	991	90.9	400	154	95.4	664	200	1140
VC-15 1.00-1.10m	MAR02248.012	Sediment	3.71	<1	<1	1.77	<1	1.86	<1	2.66
Certified Reference Material Nist 1941b (% Recovery)			70	75	88	107	110	80	106	79
QC Blank			<1	<1	<1	<1	<1	<1	<1	<1

~ Indicates result is for an In-house Reference Material as no Certified Reference Materials are available.

For full analyte name see method summaries.

*See report notes

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Test Report ID MAR02248
 Issue Version 1
 Customer Reference Falmouth Harbour - MMO Testing

		Units	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	mg/Kg
		Method No	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/305
		Limit of Detection	1	1	1	1	1	1	1
		Accreditation	UKAS/MMO	UKAS/MMO	UKAS/MMO	MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO
Client Reference:	SOCOTEC Ref:	Matrix	FLUORENE	INDPYR	NAPTH	PERYLENE	PHENANT	PYRENE	THC
VC-15 0.00-0.10m	MAR02248.011	Sediment	93.2	994	80.1	198	434	1690	646
VC-15 1.00-1.10m	MAR02248.012	Sediment	<1	2.52	<1	1.90	1.39	4.86	4.27
Certified Reference Material Nist 1941b (% Recovery)			51	76	59	51	76	68	94~
QC Blank			<1	<1	<1	<1	<1	<1	<1

~ Indicates result is for an In-house Reference Material as no Certified Reference Materials are available.

For full analyte name see method summaries.

*See report notes

MAR02248

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Certificate of Analysis



Issuing Laboratory SOCOTEC, Marine Department, Advanced Chemistry and Research, Etwall House, Bretby Business Park, Ashby Road, Burton-upon-Trent DE15 0YZ

Test Report ID MAR02248
Issue Version 1
Customer Reference Falmouth Harbour - MMO Testing

		Units	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)
		Method No	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302
		Limit of Detection	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008
		Accreditation	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO
Client Reference:	SOCOTEC Ref:	Matrix	PCB 101	PCB 105	PCB 110	PCB 118	PCB 128	PCB 138	PCB 141
VC-01 0.00-0.10m	MAR02248.001	Sediment	0.01240	0.00266	0.01154	0.01162	0.00323	0.01566	0.00298
VC-01 1.00-1.10m	MAR02248.002	Sediment	0.00099	0.00024	0.00095	0.00091	0.00041	0.00124	0.00017
VC-01 2.00-2.10m	MAR02248.003	Sediment	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008
VC-01 3.00-3.10m	MAR02248.004	Sediment	<0.00008	<0.00008	0.00010	0.00009	<0.00008	<0.00008	<0.00008
VC-01 3.55-3.65m	MAR02248.005	Sediment	0.00120	0.00029	0.00140	0.00140	0.00037	0.00125	0.00031
VC-05 0.00-0.10m	MAR02248.006	Sediment	0.04177	0.01084	0.03853	0.03674	0.01050	0.03505	0.00776
VC-05 1.00-1.10m	MAR02248.007	Sediment	0.00017	<0.00008	0.00018	0.00011	<0.00008	0.00010	<0.00008
VC-05 2.00-2.10m	MAR02248.008	Sediment	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008
VC-05 3.00-3.10m	MAR02248.009	Sediment	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008
VC-05 3.90-4.00m	MAR02248.010	Sediment	0.00013	<0.00008	0.00012	0.00009	<0.00008	0.00011	<0.00008
Certified Reference Material Nist 1941b (% Recovery)			91	97	102	103	98	92	102~
QC Blank			<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008

~ Indicates result is for an In-house Reference Material as no Certified Reference Materials are available.

Certificate of Analysis



Issuing Laboratory SOCOTEC, Marine Department, Advanced Chemistry and Research, Etwall House, Bretby Business Park, Ashby Road, Burton-upon-Trent DE15 0YZ

Test Report ID MAR02248
Issue Version 1
Customer Reference Falmouth Harbour - MMO Testing

		Units	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)
		Method No	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302
		Limit of Detection	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008
		Accreditation	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO
Client Reference:	SOCOTEC Ref:	Matrix	PCB 149	PCB 151	PCB 153	PCB 156	PCB 158	PCB 170	PCB 18
VC-01 0.00-0.10m	MAR02248.001	Sediment	0.01418	0.00454	0.01853	0.00213	0.00228	0.00478	0.00036
VC-01 1.00-1.10m	MAR02248.002	Sediment	0.00117	0.00032	0.00166	0.00015	0.00018	0.00046	0.00014
VC-01 2.00-2.10m	MAR02248.003	Sediment	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008
VC-01 3.00-3.10m	MAR02248.004	Sediment	0.00010	<0.00008	0.00012	<0.00008	<0.00008	<0.00008	<0.00008
VC-01 3.55-3.65m	MAR02248.005	Sediment	0.00115	0.00032	0.00130	0.00023	0.00025	0.00031	<0.00008
VC-05 0.00-0.10m	MAR02248.006	Sediment	0.03216	0.00873	0.03469	0.00689	0.00690	0.00897	0.00212
VC-05 1.00-1.10m	MAR02248.007	Sediment	0.00011	<0.00008	0.00022	<0.00008	<0.00008	0.00009	<0.00008
VC-05 2.00-2.10m	MAR02248.008	Sediment	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	0.00017
VC-05 3.00-3.10m	MAR02248.009	Sediment	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008
VC-05 3.90-4.00m	MAR02248.010	Sediment	0.00011	<0.00008	0.00010	<0.00008	<0.00008	<0.00008	0.00045
Certified Reference Material Nist 1941b (% Recovery)			104	106~	99	83	83	92	82
QC Blank			<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008

~ Indicates result is for an In-house Reference Material as no Certified Reference Materials are available.

Certificate of Analysis



Issuing Laboratory SOCOTEC, Marine Department, Advanced Chemistry and Research, Etwall House, Bretby Business Park, Ashby Road, Burton-upon-Trent DE15 0YZ

Test Report ID MAR02248
Issue Version 1
Customer Reference Falmouth Harbour - MMO Testing

		Units	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)
		Method No	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302
		Limit of Detection	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008
		Accreditation	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO
Client Reference:	SOCOTEC Ref:	Matrix	PCB 180	PCB 183	PCB 187	PCB 194	PCB 28	PCB 31	PCB 44
VC-01 0.00-0.10m	MAR02248.001	Sediment	0.01117	0.00319	0.00714	0.00308	0.00077	0.00074	0.00198
VC-01 1.00-1.10m	MAR02248.002	Sediment	0.00101	0.00030	0.00063	0.00021	0.00021	0.00021	0.00034
VC-01 2.00-2.10m	MAR02248.003	Sediment	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008
VC-01 3.00-3.10m	MAR02248.004	Sediment	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008
VC-01 3.55-3.65m	MAR02248.005	Sediment	0.00060	0.00015	0.00029	0.00014	0.00012	0.00012	0.00040
VC-05 0.00-0.10m	MAR02248.006	Sediment	0.01815	0.00557	0.01097	0.00398	0.00230	0.00266	0.00890
VC-05 1.00-1.10m	MAR02248.007	Sediment	0.00016	<0.00008	0.00010	<0.00008	<0.00008	<0.00008	<0.00008
VC-05 2.00-2.10m	MAR02248.008	Sediment	<0.00008	<0.00008	<0.00008	<0.00008	0.00009	0.00008	<0.00008
VC-05 3.00-3.10m	MAR02248.009	Sediment	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008
VC-05 3.90-4.00m	MAR02248.010	Sediment	<0.00008	<0.00008	<0.00008	<0.00008	0.00038	0.00040	0.00023
Certified Reference Material Nist 1941b (% Recovery)			96	71	98	104	77	91	93
QC Blank			<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008

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Certificate of Analysis



Issuing Laboratory SOCOTEC, Marine Department, Advanced Chemistry and Research, Etwall House, Bretby Business Park, Ashby Road, Burton-upon-Trent DE15 0YZ

Test Report ID MAR02248
Issue Version 1
Customer Reference Falmouth Harbour - MMO Testing

		Units	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)
		Method No	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302
		Limit of Detection	0.00008	0.00008	0.00008	0.00008
		Accreditation	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO
Client Reference:	SOCOTEC Ref:	Matrix	PCB 47	PCB 49	PCB 52	PCB 66
VC-01 0.00-0.10m	MAR02248.001	Sediment	0.00077	0.00265	0.00428	0.00262
VC-01 1.00-1.10m	MAR02248.002	Sediment	0.00013	0.00038	0.00051	0.00040
VC-01 2.00-2.10m	MAR02248.003	Sediment	<0.00008	<0.00008	<0.00008	<0.00008
VC-01 3.00-3.10m	MAR02248.004	Sediment	<0.00008	<0.00008	<0.00008	<0.00008
VC-01 3.55-3.65m	MAR02248.005	Sediment	0.00012	0.00037	0.00069	0.00036
VC-05 0.00-0.10m	MAR02248.006	Sediment	0.00170	0.00715	0.01987	0.00688
VC-05 1.00-1.10m	MAR02248.007	Sediment	<0.00008	<0.00008	<0.00008	<0.00008
VC-05 2.00-2.10m	MAR02248.008	Sediment	<0.00008	<0.00008	<0.00008	<0.00008
VC-05 3.00-3.10m	MAR02248.009	Sediment	<0.00008	<0.00008	<0.00008	<0.00008
VC-05 3.90-4.00m	MAR02248.010	Sediment	0.00009	0.00028	0.00028	0.00013
Certified Reference Material Nist 1941b (% Recovery)			105~	98	87	96
QC Blank			<0.00008	<0.00008	<0.00008	<0.00008

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Test Report ID MAR02248
 Issue Version 1
 Customer Reference Falmouth Harbour - MMO Testing

		Units	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)
		Method No	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302
		Limit of Detection	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008
		Accreditation	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO
Client Reference:	SOCOTEC Ref:	Matrix	PCB 101	PCB 105	PCB 110	PCB 118	PCB 128	PCB 138	PCB 141
VC-15 0.00-0.10m	MAR02248.011	Sediment	0.06611	0.02427	0.07163	0.06446	0.01305	0.04581	0.00913
VC-15 1.00-1.10m	MAR02248.012	Sediment	0.00610	0.00277	0.00755	0.00892	0.00245	0.00831	0.00144
Certified Reference Material Nist 1941b (% Recovery)			94	86	101	107	105	110	110~
QC Blank			<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008

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Test Report ID MAR02248
Issue Version 1
Customer Reference Falmouth Harbour - MMO Testing

		Units	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)
		Method No	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302
		Limit of Detection	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008
		Accreditation	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO
Client Reference:	SOCOTEC Ref:	Matrix	PCB 149	PCB 151	PCB 153	PCB 156	PCB 158	PCB 170	PCB 18
VC-15 0.00-0.10m	MAR02248.011	Sediment	0.04591	0.00809	0.05209	0.00916	0.00865	0.01327	0.01911
VC-15 1.00-1.10m	MAR02248.012	Sediment	0.00582	0.00121	0.00715	0.00157	0.00169	0.00146	0.00077
Certified Reference Material Nist 1941b (% Recovery)			97	107~	102	102	79	91	81
QC Blank			<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008

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Test Report ID MAR02248
 Issue Version 1
 Customer Reference Falmouth Harbour - MMO Testing

		Units	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)
		Method No	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302
		Limit of Detection	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008
		Accreditation	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO
Client Reference:	SOCOTEC Ref:	Matrix	PCB 180	PCB 183	PCB 187	PCB 194	PCB 28	PCB 31	PCB 44
VC-15 0.00-0.10m	MAR02248.011	Sediment	0.02704	0.00789	0.01465	0.00610	0.02102	0.02584	0.05583
VC-15 1.00-1.10m	MAR02248.012	Sediment	0.00261	0.00076	0.00143	0.00048	0.00111	0.00119	0.00192
Certified Reference Material Nist 1941b (% Recovery)			99	91	105	103	75	97	89
QC Blank			<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008

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Test Report ID MAR02248
 Issue Version 1
 Customer Reference Falmouth Harbour - MMO Testing

		Units	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)
		Method No	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302
		Limit of Detection	0.00008	0.00008	0.00008	0.00008
		Accreditation	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO
Client Reference:	SOCOTEC Ref:	Matrix	PCB 47	PCB 49	PCB 52	PCB 66
VC-15 0.00-0.10m	MAR02248.011	Sediment	0.01698	0.05609	0.07819	0.05800
VC-15 1.00-1.10m	MAR02248.012	Sediment	0.00051	0.00174	0.00269	0.00217
Certified Reference Material Nist 1941b (% Recovery)			99~	100	92	103
QC Blank			<0.00008	<0.00008	<0.00008	<0.00008

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Test Report ID MAR02248
Issue Version 1
Customer Reference Falmouth Harbour - MMO Testing

		Units	mg/Kg (Dry Weight)							
		Method No	ASC/SOP/302							
		Limit of Detection	0.0001							
		Accreditation	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO
Client Reference:	SOCOTEC Ref:	Matrix	AHCH	BHCH	GHCH	DIELDRIN	HCB	PPTDE	PPDDE	PPDDT
VC-01 0.00-0.10m	MAR02248.001	Sediment	<0.0001	0.0003	0.0025	<0.0001	0.0001	0.0197	0.0056	0.0030
VC-01 1.00-1.10m	MAR02248.002	Sediment	<0.0001	<0.0001	0.0008	0.0004	<0.0001	0.0009	0.0002	0.0001
VC-01 2.00-2.10m	MAR02248.003	Sediment	<0.0001	<0.0001	0.0004	0.0003	<0.0001	<0.0001	<0.0001	<0.0001
VC-01 3.00-3.10m	MAR02248.004	Sediment	<0.0001	<0.0001	0.0002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
VC-01 3.55-3.65m	MAR02248.005	Sediment	<0.0001	<0.0001	0.0002	0.0001	<0.0001	0.0047	0.0009	0.0025
VC-05 0.00-0.10m	MAR02248.006	Sediment	<0.0001	0.0002	0.0002	<0.0001	0.0002	0.0241	0.0054	0.0118
VC-05 1.00-1.10m	MAR02248.007	Sediment	<0.0001	<0.0001	0.0003	<0.0001	<0.0001	0.0005	<0.0001	0.0001
VC-05 2.00-2.10m	MAR02248.008	Sediment	<0.0001	<0.0001	0.0003	0.0001	<0.0001	<0.0001	<0.0001	<0.0001
VC-05 3.00-3.10m	MAR02248.009	Sediment	<0.0001	<0.0001	0.0002	<0.0001	<0.0001	<0.0001	<0.0001	0.0001
VC-05 3.90-4.00m	MAR02248.010	Sediment	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.0001	<0.0001	<0.0001
Certified Reference Material Nist 1941b (% Recovery)			91~	70~	72~	93~	116	90	85	81
QC Blank			<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001

~ Indicates result is for an In-house Reference Material as no Certified Reference Materials are available.

For full analyte name see method summaries.

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Certificate of Analysis



Issuing Laboratory SOCOTEC, Marine Department, Advanced Chemistry and Research, Etwall House, Bretby Business Park, Ashby Road, Burton-upon-Trent DE15 0YZ

Test Report ID MAR02248
Issue Version 1
Customer Reference Falmouth Harbour - MMO Testing

		Units	mg/Kg (Dry Weight)							
		Method No	ASC/SOP/302							
		Limit of Detection	0.0001							
		Accreditation	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO
Client Reference:	SOCOTEC Ref:	Matrix	AHCH	BHCH	GHCH	DIELDRIN	HCB	PPTDE	PPDDE	PPDDT
VC-15 0.00-0.10m	MAR02248.011	Sediment	<0.0001	<0.0001	0.0002	0.0019	<0.0001	0.0293	0.0063	0.0034
VC-15 1.00-1.10m	MAR02248.012	Sediment	<0.0001	<0.0001	0.0001	0.0003	<0.0001	0.0027	0.0003	0.0002
Certified Reference Material Nist 1941b (% Recovery)			82~	70~	67~	102~	112	80	77	46
QC Blank			<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001

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For full analyte name see method summaries.

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Test Report ID MAR02248
Issue Version 1
Customer Reference Falmouth Harbour - MMO Testing

		Units	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)
		Method No	ASC/SOP/308	ASC/SOP/308	ASC/SOP/308	ASC/SOP/308	ASC/SOP/308	ASC/SOP/308	ASC/SOP/308	ASC/SOP/308
		Limit of Detection	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005
		Accreditation	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO
Client Reference:	SOCOTEC Ref:	Matrix	BDE17	BDE28	BDE47	BDE66	BDE85	BDE99	BDE100	BDE138
VC-01 0.00-0.10m	MAR02248.001	Sediment	<0.00005	<0.00005	0.00031	0.00018	<0.00005	0.00036	<0.00005	<0.00005
VC-01 1.00-1.10m	MAR02248.002	Sediment	<0.00005	<0.00005	0.00011	<0.00005	<0.00005	0.00013	<0.00005	<0.00005
VC-01 2.00-2.10m	MAR02248.003	Sediment	<0.00005	<0.00005	0.00024	<0.00005	<0.00005	0.00044	<0.00005	<0.00005
VC-01 3.00-3.10m	MAR02248.004	Sediment	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Certified Reference Material QBC069MS (% Recovery)			113~	108	114	106~	103~	107	126	104~
QC Blank			<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005

* See Report Notes

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Issuing Laboratory SOCOTEC, Marine Department, Advanced Chemistry and Research, Etwall House, Bretby Business Park, Ashby Road, Burton-upon-Trent DE15 0YZ

Test Report ID MAR02248
 Issue Version 1
 Customer Reference Falmouth Harbour - MMO Testing

		Units	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)
		Method No	ASC/SOP/308	ASC/SOP/308	ASC/SOP/308	ASC/SOP/308
		Limit of Detection	0.00005	0.00005	0.00005	0.0001
		Accreditation	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO
Client Reference:	SOCOTEC Ref:	Matrix	BDE153	BDE154	BDE183	BDE209
VC-01 0.00-0.10m	MAR02248.001	Sediment	<0.00005	<0.00005	<0.00005	0.0898
VC-01 1.00-1.10m	MAR02248.002	Sediment	<0.00005	<0.00005	<0.00005	0.0027
VC-01 2.00-2.10m	MAR02248.003	Sediment	<0.00005	<0.00005	<0.00005	0.0011
VC-01 3.00-3.10m	MAR02248.004	Sediment	<0.00005	<0.00005	<0.00005	0.0009
Certified Reference Material QBC069MS (% Recovery)			128	95~	88	92
QC Blank			<0.00005	<0.00005	<0.00005	<0.0002*

* See Report Notes

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Test Report ID MAR02248
Issue Version 1
Customer Reference Falmouth Harbour - MMO Testing

		Units	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)
		Method No	ASC/SOP/308	ASC/SOP/308	ASC/SOP/308	ASC/SOP/308	ASC/SOP/308	ASC/SOP/308	ASC/SOP/308	ASC/SOP/308
		Limit of Detection	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005
		Accreditation	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO
Client Reference:	SOCOTEC Ref:	Matrix	BDE17	BDE28	BDE47	BDE66	BDE85	BDE99	BDE100	BDE138
VC-01 3.55-3.65m	MAR02248.005	Sediment	<0.00005	<0.00005	0.00015	<0.00005	<0.00005	0.00035	<0.00005	<0.00005
VC-05 0.00-0.10m	MAR02248.006	Sediment	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
VC-05 1.00-1.10m	MAR02248.007	Sediment	<0.00005	<0.00005	0.00012	<0.00005	<0.00005	0.00023	<0.00005	<0.00005
VC-05 2.00-2.10m	MAR02248.008	Sediment	<0.00005	<0.00005	0.00005	<0.00005	<0.00005	0.00009	<0.00005	<0.00005
VC-05 3.00-3.10m	MAR02248.009	Sediment	<0.00005	<0.00005	0.00010	<0.00005	<0.00005	0.00016	<0.00005	<0.00005
VC-05 3.90-4.00m	MAR02248.010	Sediment	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
VC-15 0.00-0.10m	MAR02248.011	Sediment	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
VC-15 1.00-1.10m	MAR02248.012	Sediment	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025
Certified Reference Material QBC069MS (% Recovery)			116~	108	114	105~	98~	107	126	100~
QC Blank			<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005

* See Report Notes

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Test Report ID MAR02248
Issue Version 1
Customer Reference Falmouth Harbour - MMO Testing

		Units	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)
		Method No	ASC/SOP/308	ASC/SOP/308	ASC/SOP/308	ASC/SOP/308
		Limit of Detection	0.00005	0.00005	0.00005	0.0001
		Accreditation	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO
Client Reference:	SOCOTEC Ref:	Matrix	BDE153	BDE154	BDE183	BDE209
VC-01 3.55-3.65m	MAR02248.005	Sediment	<0.00005	<0.00005	<0.00005	0.0008
VC-05 0.00-0.10m	MAR02248.006	Sediment	<0.00005	<0.00005	<0.00005	0.0435
VC-05 1.00-1.10m	MAR02248.007	Sediment	<0.00005	<0.00005	<0.00005	0.0010
VC-05 2.00-2.10m	MAR02248.008	Sediment	<0.00005	<0.00005	<0.00005	0.0010
VC-05 3.00-3.10m	MAR02248.009	Sediment	<0.00005	<0.00005	<0.00005	0.0019
VC-05 3.90-4.00m	MAR02248.010	Sediment	<0.00005	<0.00005	<0.00005	0.0010
VC-15 0.00-0.10m	MAR02248.011	Sediment	<0.00005	<0.00005	<0.00005	0.0005
VC-15 1.00-1.10m	MAR02248.012	Sediment	<0.00025	<0.00025	<0.00025	0.0009
Certified Reference Material QBC069MS (% Recovery)			128	95~	88	92
QC Blank			<0.00005	<0.00005	<0.00005	<0.0002*

* See Report Notes

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Test Report ID MAR02248
Issue Version 1
Customer Reference Falmouth Harbour - MMO Testing

REPORT NOTES

Method Code	Sample ID	The following information should be taken into consideration when using the data contained within this report
*SUB_01	MAR02248.011-012	Analysis was conducted by an approved subcontracted laboratory.
WSLM59*	MAR02248.011-012	Analysis was conducted by an internal SOCOTEC laboratory. UKAS accredited analysis by this laboratory is under UKAS number 1252.
ICPMSS*	MAR02248.011-012	Analysis was conducted by an internal SOCOTEC laboratory. UKAS accredited analysis by this laboratory is under UKAS number 1252.
ASC/SOP/301	MAR02248.002-004, .008-010, .012	The matrix of this sample has been found to interfere with the result for this test. The sample has therefore been diluted, but in doing so, the detection limit for this test has been elevated.
ASC/SOP/303/304	MAR02248.002-005, .008-010	The matrix of this sample has been found to interfere with the result for this test. The sample has therefore been diluted, but in doing so, the detection limit for this test has been elevated.
ASC/SOP/303/304	MAR02248.001-010	The Primary process control data associated with this Test has not wholly met the requirements of the Laboratory Quality Management System QMS with one or more target analytes falling outside acceptable limits. The remaining data gives the Laboratory confidence that the test has performed satisfactorily and that the validity of the data may not have been significantly affected. However in line with our QMS policy we have removed accreditation, where applicable, from the affected analytes (ACENAPTH, FLUORENE) . These circumstances should be taken into consideration when utilising the data.
ASC/SOP/303/304	MAR02248.011-012	The Primary process control data associated with this Test has not wholly met the requirements of the Laboratory Quality Management System QMS with one or more target analytes falling outside acceptable limits. The remaining data gives the Laboratory confidence that the test has performed satisfactorily and that the validity of the data may not have been significantly affected. However in line with our QMS policy we have removed accreditation, where applicable, from the affected analytes (ACENAPHY) . These circumstances should be taken into consideration when utilising the data.
ASC/SOP/303/304	MAR02248.001-012	Benzo[k]fluoranthene is known to coelute with Benzo[j]fluoranthene and these peaks can not be resolved. It is believed Benzo[j]fluoranthene is present in these samples therefore it is suggested that the Benzo[k]fluoranthene results should be taken as a Benzo[k]fluoranthene (inc. Benzo[j]fluoranthene). Benzo[j]fluoranthene is not UKAS accredited. This should be taken into consideration when utilising the data.
ASC/SOP/303/304	MAR02248.001-012	Chrysene is known to coelute with Triphenylene and these peaks can not be resolved in the PAHSED UKAS accredited method. Chrysene and Triphenylene are resolved for MMO but this is currently not UKAS accredited therefore Chrysene is reported without this accreditation.
ASC/SOP/303/308	MAR02248.012	Due to limited sample a smaller volume has been extracted, in doing so, the detection limit for this test has been elevated.
ASC/SOP/303/308	MAR02248.001-012	The Primary process control blank data associated with this Test has not wholly met the requirements of the Laboratory Quality Management System QMS with BDE209 falling above acceptable reporting limits. The remaining data gives the Laboratory confidence that the test has performed satisfactorily and that the validity of the data may not have been significantly affected. However in line with our QMS policy the report limit for this compound has been raised.

DEVIATING SAMPLE STATEMENT

Deviation Code	Deviation Definition	Sample ID	Deviation Details. The following information should be taken into consideration when using the data contained within this report
D1	Holding Time Exceeded	N/A	N/A
D2	Sample Contaminated through Damaged Packaging	N/A	N/A
D3	Sample Contaminated through Sampling	N/A	N/A
D4	Inappropriate Container/Packaging	N/A	N/A
D5	Damaged in Transit	N/A	N/A
D6	Insufficient Quantity of Sample	N/A	N/A
D7	Inappropriate Headspace	N/A	N/A
D8	Retained at Incorrect Temperature	N/A	N/A
D9	Lack of Date & Time of Sampling	N/A	N/A
D10	Insufficient Sample Details	N/A	N/A
D11	Sample integrity compromised or not suitable for analysis	N/A	N/A

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Test Report ID MAR02248
Issue Version 1
Customer Reference Falmouth Harbour - MMO Testing

Method	Sample and Fraction Size	Method Summary
Particle Size Analysis	Wet Sediment	Wet and dry sieving followed by laser diffraction analysis.
Total Organic Carbon (TOC)	Air dried	Carbonate removal and sulphurous acid/combustion at 1600°C/NDIR.
Metals	Air dried	Aqua-regia extraction followed by ICP analysis.
Organotins	Wet Sediment	Solvent extraction and derivatisation followed by GC-MS analysis.
Polyaromatic Hydrocarbons (PAH)	Wet Sediment	Solvent extraction and clean up followed by GC-MS analysis.
Total Hydrocarbon Content (THC)	Wet Sediment	Ultra-violet fluorescence spectroscopy
Polychlorinated Biphenyls (PCBs)	Air dried and sieved to <2mm	Solvent extraction and clean up followed by GC-MS-MS analysis.
Organochlorine Pesticides (OCPs)	Air dried and sieved to <2mm	Solvent extraction and clean up followed by GC-MS-MS analysis.
Brominated Flame Retardants (PBDEs)	Air dried and sieved to <2mm	Solvent extraction and clean up followed by GC-MS-MS analysis.

Analyte Definitions					
Analyte Abbreviation	Full Analyte name	Analyte Abbreviation	Full Analyte name	Analyte Abbreviation	Full Analyte name
ACENAPTH	Acenaphthene	C2N	C2-naphthalenes	THC	Total Hydrocarbon Content
ACENAPHY	Acenaphthylene	C3N	C3-naphthalenes	AHCH	alpha-Hexachlorocyclohexane
ANTHRACN	Anthracene	CHRYSENE	Chrysene	BHCH	beta-Hexachlorocyclohexane
BAA	Benzo[a]anthracene	DBENZAH	Dibenzo[ah]anthracene	GHCH	gamma-Hexachlorocyclohexane
BAP	Benzo[a]pyrene	FLUORANT	Fluoranthene	DIELDRIN	Dieldrin
BBF	Benzo[b]fluoranthene	FLUORENE	Fluorene	HCB	Hexachlorobenzene
BEP	Benzo[e]pyrene	INDPYR	Indeno[1,2,3-cd]pyrene	PPDDE	p,p'-Dichlorodiphenyldichloroethylene
BENZGHIP	Benzo[ghi]perylene	NAPTH	Naphthalene	PPDDT	p,p'-Dichlorodiphenyltrichloroethane
BKF	Benzo[k]fluoranthene	PERYLENE	Perylene	PPTDE	p,p'-Dichlorodiphenyldichloroethane
C1N	C1-naphthalenes	PHENANT	Phenanthrene		
C1PHEN	C1-phenanthrene	PYRENE	Pyrene		

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Issuing Laboratory SOCOTEC, Marine Department, Advanced Chemistry and Research, Etwall House, Bretby Business Park, Ashby Road, Burton-upon-Trent DE15 0YZ



Test Report ID MAR02249

Issue Version: 1

Customer: Geotechnical Engineering Ltd, Centurion House, Olympus Park, Quedgley, Gloucester, GL2 4NF

Customer Reference: Falmouth Harbour - MMO Testing

Date Sampled: 26-Mar-24

Date Samples Received: 28-Mar-24

Test Report Date: 29-Apr-24

Condition of samples: Ambient Satisfactory

Opinions and Interpretations expressed herein are outside the scope of our UKAS accreditation
The results reported relate only to the sample tested
The results apply to the sample as received

JM Colbourne

Authorised by: Jane Colbourne

Position: Customer Service Specialist



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Issuing Laboratory SOCOTEC, Marine Department, Advanced Chemistry and Research, Etwall House, Bretby Business Park, Ashby Road, Burton-upon-Trent DE15 0YZ

Test Report ID MAR02249
Issue Version 1
Customer Reference Falmouth Harbour - MMO Testing

		Units	% M/M	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)
		Method No	WSLM59*	*SUB_01	*SUB_01	*SUB_01	*SUB_01	*SUB_01	*SUB_01
		Accreditation	UKAS/MMO	MMO	MMO	MMO	MMO	MMO	MMO
			Total Organic Carbon	45mm	31.5mm	22.4mm	16mm	11.2mm	8mm
Client Reference:	SOCOTEC Ref:	Matrix	-	-5.5	-5.0	-4.5	-4.0	-3.5	-3.0
VC-16 0.00-0.10m	MAR02249.001	Sediment	2.29	0.00	0.00	0.00	0.00	0.00	0.00
VC-16 1.00-1.10m	MAR02249.002	Sediment	4.27	0.00	0.00	0.00	0.00	7.57	1.67
VC-16 2.00-2.10m	MAR02249.003	Sediment	1.56	0.00	0.00	0.00	0.00	0.00	0.00
VC-02A 0.00-0.10m	MAR02249.004	Sediment	1.39	0.00	0.00	0.00	13.97	10.66	10.06
VC02A 1.00-1.10m	MAR02249.005	Sediment	0.13	0.00	15.88	21.45	9.05	1.44	6.98
VC-02A 1.40-1.50m	MAR02249.006	Sediment	0.13	0.00	36.86	11.42	3.85	2.45	3.08
VC-07A 0.00-0.10m	MAR02249.007	Sediment	2.92	0.00	0.00	0.00	0.00	2.37	0.90
VC-07A 1.00-1.10m	MAR02249.008	Sediment	0.20	0.00	0.00	16.65	4.18	3.40	5.58
VC-07A 2.00-2.10m	MAR02249.009	Sediment	0.12	0.00	0.00	0.00	0.00	4.12	5.19

* See Report Notes

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Test Report ID MAR02249
Issue Version 1
Customer Reference Falmouth Harbour - MMO Testing

		Units	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)
		Method No	*SUB_01	*SUB_01	*SUB_01	*SUB_01	*SUB_01	*SUB_01	*SUB_01
		Accreditation	MMO	MMO	MMO	MMO	MMO	MMO	MMO
			5.6mm	4mm	2.8mm	2mm	1.4mm	1mm	707µm
Client Reference:	SOCOTEC Ref:	Matrix	-2.5	-2.0	-1.5	-1.0	-0.5	0.0	0.5
VC-16 0.00-0.10m	MAR02249.001	Sediment	0.00	0.00	0.00	0.00	0.00	0.00	0.04
VC-16 1.00-1.10m	MAR02249.002	Sediment	3.57	1.88	0.74	0.77	0.87	0.84	0.00
VC-16 2.00-2.10m	MAR02249.003	Sediment	0.00	0.12	0.42	0.18	0.17	0.17	0.00
VC-02A 0.00-0.10m	MAR02249.004	Sediment	4.65	4.84	5.76	3.34	3.38	2.74	0.00
VC02A 1.00-1.10m	MAR02249.005	Sediment	5.79	4.00	4.39	2.54	2.14	1.81	0.00
VC-02A 1.40-1.50m	MAR02249.006	Sediment	2.06	1.41	2.46	1.53	1.70	1.56	0.00
VC-07A 0.00-0.10m	MAR02249.007	Sediment	2.59	6.29	5.18	2.49	1.66	1.47	0.86
VC-07A 1.00-1.10m	MAR02249.008	Sediment	8.03	6.75	5.62	3.38	2.57	2.21	0.00
VC-07A 2.00-2.10m	MAR02249.009	Sediment	4.97	6.28	6.39	5.87	6.41	6.49	0.07

* See Report Notes

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Test Report ID MAR02249
Issue Version 1
Customer Reference Falmouth Harbour - MMO Testing

		Units	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)
		Method No	*SUB_01	*SUB_01	*SUB_01	*SUB_01	*SUB_01	*SUB_01	*SUB_01
		Accreditation	MMO	MMO	MMO	MMO	MMO	MMO	MMO
			500µm	353.6µm	250µm	176.8µm	125µm	88.39µm	63µm
Client Reference:	SOCOTEC Ref:	Matrix	1.0	1.5	2.0	2.5	3.0	3.5	4.0
VC-16 0.00-0.10m	MAR02249.001	Sediment	0.05	0.16	0.07	1.10	5.52	3.19	4.35
VC-16 1.00-1.10m	MAR02249.002	Sediment	0.00	0.29	1.32	2.72	3.58	6.01	3.41
VC-16 2.00-2.10m	MAR02249.003	Sediment	0.00	0.08	0.31	1.44	2.75	5.78	2.99
VC-02A 0.00-0.10m	MAR02249.004	Sediment	0.00	0.05	0.38	0.81	1.11	2.09	0.81
VC02A 1.00-1.10m	MAR02249.005	Sediment	0.00	0.00	0.15	0.32	0.58	1.02	0.26
VC-02A 1.40-1.50m	MAR02249.006	Sediment	0.00	0.05	0.42	0.65	0.89	1.35	0.37
VC-07A 0.00-0.10m	MAR02249.007	Sediment	2.54	3.07	2.83	3.07	6.04	4.03	3.42
VC-07A 1.00-1.10m	MAR02249.008	Sediment	0.00	0.00	0.19	0.48	0.87	1.62	0.46
VC-07A 2.00-2.10m	MAR02249.009	Sediment	0.86	1.11	0.86	1.05	2.53	1.83	0.97

* See Report Notes

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Test Report ID MAR02249
Issue Version 1
Customer Reference Falmouth Harbour - MMO Testing

		Units	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)
		Method No	*SUB_01	*SUB_01	*SUB_01	*SUB_01	*SUB_01	*SUB_01	*SUB_01
		Accreditation	MMO	MMO	MMO	MMO	MMO	MMO	MMO
			44.2µm	31.3µm	22.1µm	15.6µm	11µm	7.8µm	5.5µm
Client Reference:	SOCOTEC Ref:	Matrix	4.5	5.0	5.5	6.0	6.5	7.0	7.5
VC-16 0.00-0.10m	MAR02249.001	Sediment	7.72	8.85	9.34	9.92	10.28	9.94	9.08
VC-16 1.00-1.10m	MAR02249.002	Sediment	3.69	6.78	6.70	6.09	7.29	7.61	7.08
VC-16 2.00-2.10m	MAR02249.003	Sediment	5.10	9.03	9.05	8.13	8.37	8.61	8.20
VC-02A 0.00-0.10m	MAR02249.004	Sediment	1.76	4.18	4.19	3.30	3.32	3.26	3.13
VC02A 1.00-1.10m	MAR02249.005	Sediment	0.14	1.06	1.41	1.62	2.08	2.65	3.01
VC-02A 1.40-1.50m	MAR02249.006	Sediment	0.42	1.58	1.74	2.13	2.70	3.32	3.69
VC-07A 0.00-0.10m	MAR02249.007	Sediment	5.48	5.86	5.80	5.63	5.93	5.88	5.22
VC-07A 1.00-1.10m	MAR02249.008	Sediment	0.32	2.56	3.61	3.39	3.99	4.40	4.32
VC-07A 2.00-2.10m	MAR02249.009	Sediment	2.81	3.66	3.80	4.21	4.55	5.01	5.37

* See Report Notes

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Test Report ID MAR02249
Issue Version 1
Customer Reference Falmouth Harbour - MMO Testing

		Units	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)
		Method No	*SUB_01	*SUB_01	*SUB_01	*SUB_01	*SUB_01	*SUB_01	*SUB_01
		Accreditation	MMO	MMO	MMO	MMO	MMO	MMO	MMO
			3.9µm	2.75µm	1.95µm	1.38µm	0.98µm	0.69µm	0.49µm
Client Reference:	SOCOTEC Ref:	Matrix	8.0	8.5	9.0	9.5	10.0	10.5	11.0
VC-16 0.00-0.10m	MAR02249.001	Sediment	7.03	4.52	2.44	1.36	0.98	0.89	0.84
VC-16 1.00-1.10m	MAR02249.002	Sediment	5.75	4.08	2.55	1.63	1.18	0.98	0.87
VC-16 2.00-2.10m	MAR02249.003	Sediment	6.77	4.95	3.46	2.67	2.27	1.99	1.79
VC-02A 0.00-0.10m	MAR02249.004	Sediment	2.76	2.19	1.63	1.28	1.05	0.85	0.69
VC02A 1.00-1.10m	MAR02249.005	Sediment	2.71	1.94	1.19	0.81	0.67	0.62	0.58
VC-02A 1.40-1.50m	MAR02249.006	Sediment	3.25	2.26	1.36	0.92	0.79	0.75	0.73
VC-07A 0.00-0.10m	MAR02249.007	Sediment	3.92	2.51	1.38	0.79	0.56	0.48	0.45
VC-07A 1.00-1.10m	MAR02249.008	Sediment	3.59	2.57	1.73	1.33	1.16	1.05	0.97
VC-07A 2.00-2.10m	MAR02249.009	Sediment	4.70	3.26	1.86	1.10	0.84	0.77	0.73

* See Report Notes

Certificate of Analysis



Issuing Laboratory SOCOTEC, Marine Department, Advanced Chemistry and Research, Etwall House, Bretby Business Park, Ashby Road, Burton-upon-Trent DE15 0YZ

Test Report ID MAR02249
Issue Version 1
Customer Reference Falmouth Harbour - MMO Testing

		Units	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)
		Method No	*SUB_01	*SUB_01	*SUB_01	*SUB_01	*SUB_01	*SUB_01	*SUB_01
		Accreditation	MMO	MMO	MMO	MMO	MMO	MMO	MMO
			0.34µm	0.24µm	0.17µm	0.12µm	0.09µm	0.06µm	0.04µm
Client Reference:	SOCOTEC Ref:	Matrix	11.5	12.0	12.5	13.0	13.5	14.0	14.5
VC-16 0.00-0.10m	MAR02249.001	Sediment	0.76	0.62	0.43	0.29	0.17	0.06	0.01
VC-16 1.00-1.10m	MAR02249.002	Sediment	0.77	0.64	0.47	0.33	0.19	0.08	0.01
VC-16 2.00-2.10m	MAR02249.003	Sediment	1.58	1.32	0.99	0.71	0.43	0.17	0.02
VC-02A 0.00-0.10m	MAR02249.004	Sediment	0.57	0.45	0.32	0.23	0.13	0.05	0.01
VC02A 1.00-1.10m	MAR02249.005	Sediment	0.52	0.43	0.32	0.22	0.13	0.05	0.01
VC-02A 1.40-1.50m	MAR02249.006	Sediment	0.68	0.58	0.43	0.31	0.18	0.07	0.01
VC-07A 0.00-0.10m	MAR02249.007	Sediment	0.40	0.33	0.24	0.17	0.10	0.04	0.00
VC-07A 1.00-1.10m	MAR02249.008	Sediment	0.88	0.75	0.57	0.42	0.26	0.10	0.01
VC-07A 2.00-2.10m	MAR02249.009	Sediment	0.67	0.57	0.45	0.34	0.21	0.09	0.01

* See Report Notes

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Test Report ID MAR02249
 Issue Version 1
 Customer Reference Falmouth Harbour - MMO Testing

		Units	% (at 0.5phi intervals)
		Method No	*SUB_01
		Accreditation	MMO
			<0.04µm
Client Reference:	SOCOTEC Ref:	Matrix	>14.5
VC-16 0.00-0.10m	MAR02249.001	Sediment	0.00
VC-16 1.00-1.10m	MAR02249.002	Sediment	0.00
VC-16 2.00-2.10m	MAR02249.003	Sediment	0.00
VC-02A 0.00-0.10m	MAR02249.004	Sediment	0.00
VC02A 1.00-1.10m	MAR02249.005	Sediment	0.00
VC-02A 1.40-1.50m	MAR02249.006	Sediment	0.00
VC-07A 0.00-0.10m	MAR02249.007	Sediment	0.00
VC-07A 1.00-1.10m	MAR02249.008	Sediment	0.00
VC-07A 2.00-2.10m	MAR02249.009	Sediment	0.00

* See Report Notes

MAR02249

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Test Report ID MAR02249
Issue Version 1
Customer Reference Falmouth Harbour - MMO Testing

		Units	mg/Kg (Dry Weight)							
		Method No	ICPMSS*							
		Limit of Detection	0.5	0.04	0.5	0.5	0.01	0.5	0.5	2
		Accreditation	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO
Client Reference:	SOCOTEC Ref:	Matrix	Arsenic (As)	Cadmium (Cd)	Chromium (Cr)	Copper (Cu)	Mercury (Hg)	Nickel (Ni)	Lead (Pb)	Zinc (Zn)
VC-16 0.00-0.10m	MAR02249.001	Sediment	93.4	0.80	87.2	938	3.24	191	1428	4011
VC-16 1.00-1.10m	MAR02249.002	Sediment	40.0	0.62	32.6	275	5.98	37.0	495	1163
VC-16 2.00-2.10m	MAR02249.003	Sediment	5.4	0.13	17.6	10.1	0.09	19.5	13.0	51.8
VC-02A 0.00-0.10m	MAR02249.004	Sediment	4.8	0.10	14.2	49.6	0.35	18.4	25.6	186
VC02A 1.00-1.10m	MAR02249.005	Sediment	1.5	0.07	44.7	18.4	0.04	49.8	13.6	88.5
VC-02A 1.40-1.50m	MAR02249.006	Sediment	5.5	0.09	25.9	25.2	0.04	37.6	21.4	102
VC-07A 0.00-0.10m	MAR02249.007	Sediment	16.9	0.23	18.6	154	1.20	18.8	96.1	294
VC-07A 1.00-1.10m	MAR02249.008	Sediment	11.1	0.08	19.6	19.3	0.03	24.1	23.9	64.1
VC-07A 2.00-2.10m	MAR02249.009	Sediment	8.2	0.08	31.0	31.9	0.02	44.6	43.6	74.5
Certified Reference Material SETOC 768 (% Recovery)			105	107	115	105	108	109	108	107
QC Blank			<0.5	<0.04	<0.5	<0.5	<0.01	<0.5	<0.5	<2

* See Report Notes

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Test Report ID MAR02249
 Issue Version 1
 Customer Reference Falmouth Harbour - MMO Testing

		Units	mg/Kg (Dry Weight)	
		Method No	ASC/SOP/301	
		Limit of Detection	0.001	0.001
		Accreditation	UKAS/MMO	UKAS/MMO
Client Reference:	SOCOTEC Ref:	Matrix	Dibutyltin (DBT)	Tributyltin (TBT)
VC-16 0.00-0.10m	MAR02249.001	Sediment	0.132	1.24
VC-16 1.00-1.10m	MAR02249.002	Sediment	<0.005	<0.005
VC-16 2.00-2.10m	MAR02249.003	Sediment	<0.005	<0.005
VC-02A 0.00-0.10m	MAR02249.004	Sediment	0.222	3.58
VC02A 1.00-1.10m	MAR02249.005	Sediment	<0.005	<0.005
VC-02A 1.40-1.50m	MAR02249.006	Sediment	<0.005	0.029
VC-07A 0.00-0.10m	MAR02249.007	Sediment	0.349	1.52
VC-07A 1.00-1.10m	MAR02249.008	Sediment	<0.005	0.024
VC-07A 2.00-2.10m	MAR02249.009	Sediment	<0.005	<0.005
Certified Reference Material BCR-646 (% Recovery)			93	102
QC Blank			<0.001	<0.001

* See Report Notes

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Test Report ID MAR02249
Issue Version 1
Customer Reference Falmouth Harbour - MMO Testing

		Units	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)
		Method No	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304
		Limit of Detection	1	1	1	1	1	1	1	1
		Accreditation	MMO*	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO
Client Reference:	SOCOTEC Ref:	Matrix	ACENAPTH	ACENAPHY	ANTHRACN	BAA	BAP	BBF	BENZGHIP	BEP
VC-16 0.00-0.10m	MAR02249.001	Sediment	115	171	283	857	1650	1550	1210	1170
VC-16 1.00-1.10m	MAR02249.002	Sediment	215	283	492	1710	3300	2910	2120	2090
VC-16 2.00-2.10m	MAR02249.003	Sediment	<5	<5	<5	<5	<5	<5	<5	<5
VC-02A 0.00-0.10m	MAR02249.004	Sediment	7.61	11.7	20.1	70.1	229	231	203	175
VC02A 1.00-1.10m	MAR02249.005	Sediment	<1	<1	<1	<1	<1	<1	<1	<1
VC-02A 1.40-1.50m	MAR02249.006	Sediment	<1	<1	<1	<1	<1	<1	<1	<1
VC-07A 0.00-0.10m	MAR02249.007	Sediment	541	157	470	1600	1670	1590	984	1090
VC-07A 1.00-1.10m	MAR02249.008	Sediment	<1	<1	<1	2.64	4.01	4.27	2.87	2.88
VC-07A 2.00-2.10m	MAR02249.009	Sediment	<1	<1	<1	<1	<1	<1	<1	<1
Certified Reference Material Nist 1941b (% Recovery)			87	113	69	66	62	81	71	77
QC Blank			<1	<1	<1	<1	<1	<1	<1	<1

~ Indicates result is for an In-house Reference Material as no Certified Reference Materials are available.

For full analyte name see method summaries.

*See report notes

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Test Report ID MAR02249
Issue Version 1
Customer Reference Falmouth Harbour - MMO Testing

		Units	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)
		Method No	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304
		Limit of Detection	1	1	1	1	1	1	1	1
		Accreditation	UKAS/MMO	MMO	MMO	MMO	MMO	MMO	UKAS/MMO	UKAS/MMO
Client Reference:	SOCOTEC Ref:	Matrix	BKF*	C1N	C1PHEN	C2N	C3N	CHRYSENE*	DBENZAH	FLUORANT
VC-16 0.00-0.10m	MAR02249.001	Sediment	1470	139	520	210	214	983	231	1700
VC-16 1.00-1.10m	MAR02249.002	Sediment	2680	285	969	394	535	2150	497	3210
VC-16 2.00-2.10m	MAR02249.003	Sediment	<5	<5	8.90	30.9	<5	<5	<5	<5
VC-02A 0.00-0.10m	MAR02249.004	Sediment	216	14.1	39.9	24.0	6.81	81.8	44.4	123
VC02A 1.00-1.10m	MAR02249.005	Sediment	<1	<1	<1	<1	<1	<1	<1	<1
VC-02A 1.40-1.50m	MAR02249.006	Sediment	<1	<1	<1	1.22	<1	<1	<1	<1
VC-07A 0.00-0.10m	MAR02249.007	Sediment	1500	384	1290	445	441	1720	247.0	3750
VC-07A 1.00-1.10m	MAR02249.008	Sediment	3.79	3.02	2.16	3.49	1.81	3.11	<1	4.30
VC-07A 2.00-2.10m	MAR02249.009	Sediment	<1	<1	<1	<1	<1	<1	<1	<1
Certified Reference Material Nist 1941b (% Recovery)			89	76	79	108	130	87	107	84
QC Blank			<1	<1	<1	<1	<1	<1	<1	<1

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For full analyte name see method summaries.

*See report notes

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Test Report ID MAR02249
Issue Version 1
Customer Reference Falmouth Harbour - MMO Testing

		Units	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	mg/Kg
		Method No	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/305
		Limit of Detection	1	1	1	1	1	1	1
		Accreditation	MMO*	UKAS/MMO	UKAS/MMO	MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO
Client Reference:	SOCOTEC Ref:	Matrix	FLUORENE	INDPYR	NAPTH	PERYLENE	PHENANT	PYRENE	THC
VC-16 0.00-0.10m	MAR02249.001	Sediment	140	1240	127	346	683	2390	619
VC-16 1.00-1.10m	MAR02249.002	Sediment	247	2270	230	707	1400	4790	882
VC-16 2.00-2.10m	MAR02249.003	Sediment	<5	<5	<5	375	<5	<5	25.3
VC-02A 0.00-0.10m	MAR02249.004	Sediment	8.74	195	9.37	47.8	59.0	204	509
VC02A 1.00-1.10m	MAR02249.005	Sediment	<1	<1	<1	<1	<1	<1	<1
VC-02A 1.40-1.50m	MAR02249.006	Sediment	<1	<1	<1	<1	<1	1.19	100
VC-07A 0.00-0.10m	MAR02249.007	Sediment	316	1060	158	366	2250	3380	743
VC-07A 1.00-1.10m	MAR02249.008	Sediment	<1	2.93	1.58	<1	2.06	4.30	16.9
VC-07A 2.00-2.10m	MAR02249.009	Sediment	<1	<1	<1	<1	<1	<1	<1
Certified Reference Material Nist 1941b (% Recovery)			61	70	60	51	79	71	94~
QC Blank			<1	<1	<1	<1	<1	<1	<1

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For full analyte name see method summaries.

*See report notes

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Test Report ID MAR02249
Issue Version 1
Customer Reference Falmouth Harbour - MMO Testing

		Units	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)
		Method No	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302
		Limit of Detection	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008
		Accreditation	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO
Client Reference:	SOCOTEC Ref:	Matrix	PCB 101	PCB 105	PCB 110	PCB 118	PCB 128	PCB 138	PCB 141
VC-16 0.00-0.10m	MAR02249.001	Sediment	0.03201	0.01343	0.03670	0.03785	0.01152	0.03426	0.00629
VC-16 1.00-1.10m	MAR02249.002	Sediment	0.00283	0.00043	0.00200	0.00199	0.00079	0.00444	0.00164
VC-16 2.00-2.10m	MAR02249.003	Sediment	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008
VC-02A 0.00-0.10m	MAR02249.004	Sediment	0.00277	0.00085	0.00300	0.00261	0.00091	0.00374	0.00064
VC02A 1.00-1.10m	MAR02249.005	Sediment	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008
VC-02A 1.40-1.50m	MAR02249.006	Sediment	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008
VC-07A 0.00-0.10m	MAR02249.007	Sediment	0.01163	0.00344	0.01208	0.01142	0.00385	0.01445	0.00265
VC-07A 1.00-1.10m	MAR02249.008	Sediment	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	0.00011	<0.00008
VC-07A 2.00-2.10m	MAR02249.009	Sediment	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008
Certified Reference Material Nist 1941b (% Recovery)			94	86	101	107	105	110	110~
QC Blank			<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008

~ Indicates result is for an In-house Reference Material as no Certified Reference Materials are available.

Certificate of Analysis



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Test Report ID MAR02249
 Issue Version 1
 Customer Reference Falmouth Harbour - MMO Testing

		Units	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)
		Method No	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302
		Limit of Detection	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008
		Accreditation	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO
Client Reference:	SOCOTEC Ref:	Matrix	PCB 149	PCB 151	PCB 153	PCB 156	PCB 158	PCB 170	PCB 18
VC-16 0.00-0.10m	MAR02249.001	Sediment	0.02649	0.00473	0.03827	0.00699	0.00601	0.00733	0.00247
VC-16 1.00-1.10m	MAR02249.002	Sediment	0.00977	0.00165	0.01395	0.00048	0.00051	0.00801	0.00019
VC-16 2.00-2.10m	MAR02249.003	Sediment	0.00009	<0.00008	0.00012	<0.00008	<0.00008	<0.00008	<0.00008
VC-02A 0.00-0.10m	MAR02249.004	Sediment	0.00319	0.00070	0.00327	0.00071	0.00063	0.00080	0.00015
VC02A 1.00-1.10m	MAR02249.005	Sediment	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008
VC-02A 1.40-1.50m	MAR02249.006	Sediment	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008
VC-07A 0.00-0.10m	MAR02249.007	Sediment	0.01196	0.00345	0.01699	0.00226	0.00230	0.00417	0.00048
VC-07A 1.00-1.10m	MAR02249.008	Sediment	<0.00008	<0.00008	0.00008	<0.00008	<0.00008	<0.00008	<0.00008
VC-07A 2.00-2.10m	MAR02249.009	Sediment	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008
Certified Reference Material Nist 1941b (% Recovery)			97	107~	102	102	79	91	81
QC Blank			<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008

~ Indicates result is for an In-house Reference Material as no Certified Reference Materials are available.

Certificate of Analysis



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Test Report ID MAR02249
Issue Version 1
Customer Reference Falmouth Harbour - MMO Testing

		Units	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)
		Method No	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302
		Limit of Detection	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008
		Accreditation	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO
Client Reference:	SOCOTEC Ref:	Matrix	PCB 180	PCB 183	PCB 187	PCB 194	PCB 28	PCB 31	PCB 44
VC-16 0.00-0.10m	MAR02249.001	Sediment	0.01458	0.00414	0.00866	0.00317	0.00372	0.00397	0.00895
VC-16 1.00-1.10m	MAR02249.002	Sediment	0.03891	0.01037	0.03039	0.03074	0.00029	0.00027	0.00050
VC-16 2.00-2.10m	MAR02249.003	Sediment	0.00023	<0.00008	0.00016	0.00011	<0.00008	<0.00008	<0.00008
VC-02A 0.00-0.10m	MAR02249.004	Sediment	0.00146	0.00038	0.00090	0.00032	0.00025	0.00023	0.00071
VC02A 1.00-1.10m	MAR02249.005	Sediment	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008
VC-02A 1.40-1.50m	MAR02249.006	Sediment	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008
VC-07A 0.00-0.10m	MAR02249.007	Sediment	0.00805	0.00227	0.00471	0.00239	0.00076	0.00080	0.00212
VC-07A 1.00-1.10m	MAR02249.008	Sediment	0.00009	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008
VC-07A 2.00-2.10m	MAR02249.009	Sediment	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008
Certified Reference Material Nist 1941b (% Recovery)			99	91	105	103	75	97	89
QC Blank			<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008

~ Indicates result is for an In-house Reference Material as no Certified Reference Materials are available.

MAR02249

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Certificate of Analysis



Issuing Laboratory SOCOTEC, Marine Department, Advanced Chemistry and Research, Etwall House, Bretby Business Park, Ashby Road, Burton-upon-Trent DE15 0YZ

Test Report ID MAR02249
Issue Version 1
Customer Reference Falmouth Harbour - MMO Testing

		Units	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)
		Method No	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302
		Limit of Detection	0.00008	0.00008	0.00008	0.00008
		Accreditation	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO
Client Reference:	SOCOTEC Ref:	Matrix	PCB 47	PCB 49	PCB 52	PCB 66
VC-16 0.00-0.10m	MAR02249.001	Sediment	0.00231	0.00814	0.01527	0.00987
VC-16 1.00-1.10m	MAR02249.002	Sediment	0.00017	0.00062	0.00135	0.00054
VC-16 2.00-2.10m	MAR02249.003	Sediment	<0.00008	<0.00008	<0.00008	<0.00008
VC-02A 0.00-0.10m	MAR02249.004	Sediment	0.00019	0.00067	0.00114	0.00076
VC02A 1.00-1.10m	MAR02249.005	Sediment	<0.00008	<0.00008	<0.00008	<0.00008
VC-02A 1.40-1.50m	MAR02249.006	Sediment	<0.00008	<0.00008	<0.00008	<0.00008
VC-07A 0.00-0.10m	MAR02249.007	Sediment	0.00063	0.00213	0.00449	0.00220
VC-07A 1.00-1.10m	MAR02249.008	Sediment	<0.00008	<0.00008	<0.00008	<0.00008
VC-07A 2.00-2.10m	MAR02249.009	Sediment	<0.00008	<0.00008	<0.00008	<0.00008
Certified Reference Material Nist 1941b (% Recovery)			99~	100	92	103
QC Blank			<0.00008	<0.00008	<0.00008	<0.00008

~ Indicates result is for an In-house Reference Material as no Certified Reference Materials are available.

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Test Report ID MAR02249
Issue Version 1
Customer Reference Falmouth Harbour - MMO Testing

		Units	mg/Kg (Dry Weight)							
		Method No	ASC/SOP/302							
		Limit of Detection	0.0001							
		Accreditation	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO
Client Reference:	SOCOTEC Ref:	Matrix	AHCH	BHCH	GHCH	DIELDRIN	HCB	PPTDE	PPDDE	PPDDT
VC-16 0.00-0.10m	MAR02249.001	Sediment	0.0001	<0.0001	0.0001	<0.0001	0.0005	0.0140	0.0046	0.0008
VC-16 1.00-1.10m	MAR02249.002	Sediment	<0.0001	<0.0001	0.0001	<0.0001	<0.0001	0.0047	0.0032	0.0002
VC-16 2.00-2.10m	MAR02249.003	Sediment	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
VC-02A 0.00-0.10m	MAR02249.004	Sediment	0.0001	<0.0001	0.0002	0.0006	<0.0001	0.0056	0.0014	0.0002
VC02A 1.00-1.10m	MAR02249.005	Sediment	<0.0001	<0.0001	<0.0001	0.0001	<0.0001	0.0001	<0.0001	<0.0001
VC-02A 1.40-1.50m	MAR02249.006	Sediment	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
VC-07A 0.00-0.10m	MAR02249.007	Sediment	<0.0001	<0.0001	<0.0001	<0.0001	0.0001	0.0160	0.0037	0.0035
VC-07A 1.00-1.10m	MAR02249.008	Sediment	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
VC-07A 2.00-2.10m	MAR02249.009	Sediment	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Certified Reference Material Nist 1941b (% Recovery)			82~	70~	67~	102~	112	80	77	46
QC Blank			<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001

~ Indicates result is for an In-house Reference Material as no Certified Reference Materials are available.

For full analyte name see method summaries.

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Test Report ID MAR02249
Issue Version 1
Customer Reference Falmouth Harbour - MMO Testing

		Units	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)
		Method No	ASC/SOP/308	ASC/SOP/308	ASC/SOP/308	ASC/SOP/308	ASC/SOP/308	ASC/SOP/308	ASC/SOP/308	ASC/SOP/308
		Limit of Detection	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005
		Accreditation	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO
Client Reference:	SOCOTEC Ref:	Matrix	BDE17	BDE28	BDE47	BDE66	BDE85	BDE99	BDE100	BDE138
VC-16 0.00-0.10m	MAR02249.001	Sediment	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025
VC-16 1.00-1.10m	MAR02249.002	Sediment	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025
Certified Reference Material Quasimeme SED56 (% Recovery)			116~	108	114	105~	98~	107	126	100~
QC Blank			<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005

* See Report Notes

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Test Report ID MAR02249
Issue Version 1
Customer Reference Falmouth Harbour - MMO Testing

		Units	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)
		Method No	ASC/SOP/308	ASC/SOP/308	ASC/SOP/308	ASC/SOP/308
		Limit of Detection	0.00005	0.00005	0.00005	0.0001
		Accreditation	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO
Client Reference:	SOCOTEC Ref:	Matrix	BDE153	BDE154	BDE183	BDE209
VC-16 0.00-0.10m	MAR02249.001	Sediment	<0.00025	<0.00025	<0.00025	0.0203
VC-16 1.00-1.10m	MAR02249.002	Sediment	<0.00025	<0.00025	<0.00025	0.0009
Certified Reference Material Quasimeme SED56 (% Recovery)			128	95~	88	92
QC Blank			<0.00005	<0.00005	<0.00005	<0.0005*

* See Report Notes

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Test Report ID MAR02249
Issue Version 1
Customer Reference Falmouth Harbour - MMO Testing

		Units	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)
		Method No	ASC/SOP/308	ASC/SOP/308	ASC/SOP/308	ASC/SOP/308	ASC/SOP/308	ASC/SOP/308	ASC/SOP/308	ASC/SOP/308
		Limit of Detection	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005
		Accreditation	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO
Client Reference:	SOCOTEC Ref:	Matrix	BDE17	BDE28	BDE47	BDE66	BDE85	BDE99	BDE100	BDE138
VC-16 2.00-2.10m	MAR02249.003	Sediment	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
VC-02A 0.00-0.10m	MAR02249.004	Sediment	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
VC02A 1.00-1.10m	MAR02249.005	Sediment	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
VC-02A 1.40-1.50m	MAR02249.006	Sediment	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
VC-07A 0.00-0.10m	MAR02249.007	Sediment	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
VC-07A 1.00-1.10m	MAR02249.008	Sediment	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
VC-07A 2.00-2.10m	MAR02249.009	Sediment	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Certified Reference Material Quasimeme SED56 (% Recovery)			126~	108	135	107~	97~	144	169	105~
QC Blank			<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005

* See Report Notes

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Test Report ID MAR02249
Issue Version 1
Customer Reference Falmouth Harbour - MMO Testing

		Units	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)
		Method No	ASC/SOP/308	ASC/SOP/308	ASC/SOP/308	ASC/SOP/308
		Limit of Detection	0.00005	0.00005	0.00005	0.0001
		Accreditation	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO
Client Reference:	SOCOTEC Ref:	Matrix	BDE153	BDE154	BDE183	BDE209
VC-16 2.00-2.10m	MAR02249.003	Sediment	<0.00005	<0.00005	<0.00005	0.0004
VC-02A 0.00-0.10m	MAR02249.004	Sediment	<0.00005	<0.00005	<0.00005	0.0023
VC02A 1.00-1.10m	MAR02249.005	Sediment	<0.00005	<0.00005	<0.00005	0.0003
VC-02A 1.40-1.50m	MAR02249.006	Sediment	<0.00005	<0.00005	<0.00005	0.0009
VC-07A 0.00-0.10m	MAR02249.007	Sediment	<0.00005	<0.00005	<0.00005	0.0254
VC-07A 1.00-1.10m	MAR02249.008	Sediment	<0.00005	<0.00005	<0.00005	0.0008
VC-07A 2.00-2.10m	MAR02249.009	Sediment	<0.00005	<0.00005	<0.00005	0.0006
Certified Reference Material Quasimeme SED56 (% Recovery)			135	97~	104	81
QC Blank			<0.00005	<0.00005	<0.00005	<0.0001

* See Report Notes

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Issuing Laboratory SOCOTEC, Marine Department, Advanced Chemistry and Research, Etwall House, Bretby Business Park, Ashby Road, Burton-upon-Trent DE15 0YZ

Test Report ID MAR02249
Issue Version 1
Customer Reference Falmouth Harbour - MMO Testing

REPORT NOTES

Method Code	Sample ID	The following information should be taken into consideration when using the data contained within this report
*SUB_01	MAR02249.001-009	Analysis was conducted by an approved subcontracted laboratory.
WSLM59*	MAR02249.001-009	Analysis was conducted by an internal SOCOTEC laboratory. UKAS accredited analysis by this laboratory is under UKAS number 1252.
ICPMSS*	MAR02249.001-009	Analysis was conducted by an internal SOCOTEC laboratory. UKAS accredited analysis by this laboratory is under UKAS number 1252.
ASC/SOP/301	MAR02249.002-003, .005-006, .007-008	The matrix of this sample has been found to interfere with the result for this test. The sample has therefore been diluted, but in doing so, the detection limit for this test has been elevated.
ASC/SOP/303/304	MAR02249.003	The matrix of this sample has been found to interfere with the result for this test. The sample has therefore been diluted, but in doing so, the detection limit for this test has been elevated.
ASC/SOP/303/304	MAR02249.001-009	The Primary process control data associated with this Test has not wholly met the requirements of the Laboratory Quality Management System QMS with one or more target analytes falling outside acceptable limits. The remaining data gives the Laboratory confidence that the test has performed satisfactorily and that the validity of the data may not have been significantly affected. However in line with our QMS policy we have removed accreditation, where applicable, from the affected analytes (ACENAPTH, FLUORENE) . These circumstances should be taken into consideration when utilising the data.
ASC/SOP/303/304	MAR02249.001-009	Benzo[k]fluoranthene is known to coelute with Benzo[j]fluoranthene and these peaks can not be resolved. It is believed Benzo[j]fluoranthene is present in these samples therefore it is suggested that the Benzo[k]fluoranthene results should be taken as a Benzo[k]fluoranthene (inc. Benzo[j]fluoranthene). Benzo[j]fluoranthene is not UKAS accredited. This should be taken into consideration when utilising the data.
ASC/SOP/303/304	MAR02249.001-009	Chrysene is known to coelute with Triphenylene and these peaks can not be resolved in the PAHSED UKAS accredited method. Chrysene and Triphenylene are resolved for MMO but this is currently not UKAS accredited therefore Chrysene is reported without this accreditation.
ASC/SOP/308	MAR02249.001-002	Due to limited sample a smaller volume was extracted, in doing so, the detection limit for this test has been elevated.

DEVIATING SAMPLE STATEMENT

Deviation Code	Deviation Definition	Sample ID	Deviation Details. The following information should be taken into consideration when using the data contained within this report
D1	Holding Time Exceeded	N/A	N/A
D2	Sample Contaminated through Damaged Packaging	N/A	N/A
D3	Sample Contaminated through Sampling	N/A	N/A
D4	Inappropriate Container/Packaging	N/A	N/A
D5	Damaged in Transit	N/A	N/A
D6	Insufficient Quantity of Sample	N/A	N/A
D7	Inappropriate Headspace	N/A	N/A
D8	Retained at Incorrect Temperature	N/A	N/A
D9	Lack of Date & Time of Sampling	N/A	N/A
D10	Insufficient Sample Details	N/A	N/A
D11	Sample integrity compromised or not suitable for analysis	N/A	N/A

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Test Report ID MAR02249
 Issue Version 1
 Customer Reference Falmouth Harbour - MMO Testing

Method	Sample and Fraction Size	Method Summary
Particle Size Analysis	Wet Sediment	Wet and dry sieving followed by laser diffraction analysis.
Total Organic Carbon (TOC)	Air dried	Carbonate removal and sulphurous acid/combustion at 1600°C/NDIR.
Metals	Air dried	Aqua-regia extraction followed by ICP analysis.
Organotins	Wet Sediment	Solvent extraction and derivatisation followed by GC-MS analysis.
Polyaromatic Hydrocarbons (PAH)	Wet Sediment	Solvent extraction and clean up followed by GC-MS analysis.
Total Hydrocarbon Content (THC)	Wet Sediment	Ultra-violet fluorescence spectroscopy
Polychlorinated Biphenyls (PCBs)	Air dried and sieved to <2mm	Solvent extraction and clean up followed by GC-MS-MS analysis.
Organochlorine Pesticides (OCPs)	Air dried and sieved to <2mm	Solvent extraction and clean up followed by GC-MS-MS analysis.
Brominated Flame Retardants (PBDEs)	Air dried and sieved to <2mm	Solvent extraction and clean up followed by GC-MS-MS analysis.

Analyte Definitions					
Analyte Abbreviation	Full Analyte name	Analyte Abbreviation	Full Analyte name	Analyte Abbreviation	Full Analyte name
ACENAPTH	Acenaphthene	C2N	C2-naphthalenes	THC	Total Hydrocarbon Content
ACENAPHY	Acenaphthylene	C3N	C3-naphthalenes	AHCH	alpha-Hexachlorocyclohexane
ANTHRACN	Anthracene	CHRYSENE	Chrysene	BHCH	beta-Hexachlorocyclohexane
BAA	Benzo[a]anthracene	DBENZAH	Dibenzo[ah]anthracene	GHCH	gamma-Hexachlorocyclohexane
BAP	Benzo[a]pyrene	FLUORANT	Fluoranthene	DIELDRIN	Dieldrin
BBF	Benzo[b]fluoranthene	FLUORENE	Fluorene	HCB	Hexachlorobenzene
BEP	Benzo[e]pyrene	INDPYR	Indeno[1,2,3-cd]pyrene	PPDDE	p,p'-Dichlorodiphenyldichloroethylene
BENZGHIP	Benzo[ghi]perylene	NAPTH	Naphthalene	PPDDT	p,p'-Dichlorodiphenyltrichloroethane
BKF	Benzo[k]fluoranthene	PERYLENE	Perylene	PPTDE	p,p'-Dichlorodiphenyldichloroethane
C1N	C1-naphthalenes	PHENANT	Phenanthrene		
C1PHEN	C1-phenanthrene	PYRENE	Pyrene		

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Test Report ID MAR02252

Issue Version: 1

Customer: Geotechnical Engineering Ltd, Centurion House, Olympus Park, Quedgley, Gloucester, GL2 4NF

Customer Reference: Falmouth Harbour - MMO Testing

Date Sampled: 26-27-Mar-24

Date Samples Received: 02-Apr-24

Test Report Date: 29-Apr-24

Condition of samples: Cold Satisfactory

Opinions and Interpretations expressed herein are outside the scope of our UKAS accreditation
The results reported relate only to the sample tested
The results apply to the sample as received

JM Colbourne

Authorised by: Jane Colbourne

Position: Customer Service Specialist



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Test Report ID MAR02252
Issue Version 1
Customer Reference Falmouth Harbour - MMO Testing

		Units	% M/M	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)
		Method No	WSLM59*	*SUB_01	*SUB_01	*SUB_01	*SUB_01	*SUB_01	*SUB_01
		Accreditation	UKAS/MMO	MMO	MMO	MMO	MMO	MMO	MMO
			Total Organic Carbon	45mm	31.5mm	22.4mm	16mm	11.2mm	8mm
Client Reference:	SOCOTEC Ref:	Matrix	-	-5.5	-5.0	-4.5	-4.0	-3.5	-3.0
VC-12A 0.00-0.10m	MAR02252.001	Sediment	2.71	0.00	0.00	0.00	0.00	0.00	0.00
VC-12A 1.00-1.10m	MAR02252.002	Sediment	4.56	0.00	0.00	0.00	0.00	0.00	0.00
VC-12A 2.00-2.10m	MAR02252.003	Sediment	1.28	0.00	0.00	0.00	0.00	0.00	0.00
VC-12A 3.00-3.10	MAR02252.004	Sediment	1.54	0.00	0.00	0.00	0.00	0.00	0.00
VC-12A 4.00-4.10m	MAR02252.005	Sediment	1.93	0.00	0.00	0.00	0.00	0.00	0.00
VC-12A 5.00-5.10m	MAR02252.006	Sediment	2.44	0.00	0.00	0.00	0.00	0.00	0.56
VC-13A 0.00-0.80m	MAR02252.007	Sediment	6.85	0.00	16.82	14.65	2.14	1.17	2.97
VC-14 0.00-0.10m	MAR02252.008	Sediment	3.43	0.00	0.00	0.00	0.00	2.02	2.17
VC-14 1.00-1.10m	MAR02252.009	Sediment	1.79	0.00	0.00	0.00	0.00	0.00	0.00
VC-14 2.00-2.10m	MAR02252.010	Sediment	2.03	0.00	0.00	0.00	0.00	0.00	0.00
VC-14 3.00-3.10m	MAR02252.011	Sediment	2.17	0.00	0.00	0.00	0.00	0.61	0.46
VC-17 0.00- 0.10m	MAR02252.012	Sediment	2.33	0.00	0.00	0.00	0.00	0.00	2.59
VC-17 1.00-1.10m	MAR02252.013	Sediment	4.14	0.00	0.00	0.00	0.00	1.91	6.62
VC-17 2.00-2.10m	MAR02252.014	Sediment	1.66	0.00	0.00	0.00	0.00	0.00	0.26
VC-17 3.00-3.10m	MAR02252.015	Sediment	2.09	0.00	0.00	0.00	0.00	1.05	0.00
VC-17 4.00-4.10m	MAR02252.016	Sediment	1.74	0.00	0.00	0.00	0.00	0.00	1.80
VC-17 5.10-5.20m	MAR02252.017	Sediment	1.59	0.00	0.00	0.00	0.00	1.82	0.34
VC-19 0.00-0.10m	MAR02252.018	Sediment	2.39	0.00	0.00	0.00	0.00	1.98	0.36
VC-19 1.00-1.10m	MAR02252.019	Sediment	2.21	0.00	0.00	0.00	0.00	0.00	0.35
VC-19 2.00-2.10m	MAR02252.020	Sediment	2.33	0.00	0.00	0.00	0.00	0.00	0.00
VC-19 3.00-3.10m	MAR02252.021	Sediment	2.46	0.00	0.00	0.00	0.00	0.00	0.90
VC-26 0.00-0.10m	MAR02252.022	Sediment	2.18	0.00	0.00	0.00	0.00	0.00	0.00
VC-26 1.00-1.10m	MAR02252.023	Sediment	1.26	0.00	0.00	0.00	0.00	0.00	0.13
VC-26 2.00-2.10m	MAR02252.024	Sediment	1.32	0.00	0.00	0.00	0.00	0.10	0.00
VC-26 3.00-3.10m	MAR02252.025	Sediment	1.60	0.00	0.00	0.00	0.00	0.00	0.40

* See Report Notes

MAR02252
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Certificate of Analysis



Issuing Laboratory SOCOTEC, Marine Department, Advanced Chemistry and Research, Etwall House, Bretby Business Park, Ashby Road, Burton-upon-Trent DE15 0YZ

Test Report ID MAR02252
Issue Version 1
Customer Reference Falmouth Harbour - MMO Testing

		Units	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)
		Method No	*SUB_01	*SUB_01	*SUB_01	*SUB_01	*SUB_01	*SUB_01	*SUB_01
		Accreditation	MMO	MMO	MMO	MMO	MMO	MMO	MMO
			5.6mm	4mm	2.8mm	2mm	1.4mm	1mm	707µm
Client Reference:	SOCOTEC Ref:	Matrix	-2.5	-2.0	-1.5	-1.0	-0.5	0.0	0.5
VC-12A 0.00-0.10m	MAR02252.001	Sediment	0.00	0.00	0.00	0.00	0.00	0.00	0.00
VC-12A 1.00-1.10m	MAR02252.002	Sediment	0.00	0.00	0.00	0.00	0.00	0.00	0.01
VC-12A 2.00-2.10m	MAR02252.003	Sediment	0.00	0.00	0.00	0.00	0.00	0.00	0.00
VC-12A 3.00-3.10	MAR02252.004	Sediment	0.00	0.00	0.00	0.00	0.00	0.00	0.00
VC-12A 4.00-4.10m	MAR02252.005	Sediment	0.00	0.13	0.45	1.00	0.23	0.18	0.14
VC-12A 5.00-5.10m	MAR02252.006	Sediment	1.30	1.17	1.90	2.04	1.59	1.60	0.16
VC-13A 0.00-0.80m	MAR02252.007	Sediment	2.82	3.63	3.72	2.91	2.94	2.84	0.00
VC-14 0.00-0.10m	MAR02252.008	Sediment	2.15	4.55	12.19	13.30	10.97	7.32	0.00
VC-14 1.00-1.10m	MAR02252.009	Sediment	0.00	0.00	0.01	0.09	0.07	0.10	0.00
VC-14 2.00-2.10m	MAR02252.010	Sediment	0.05	0.04	0.81	1.11	0.40	0.40	0.00
VC-14 3.00-3.10m	MAR02252.011	Sediment	0.74	0.51	1.19	1.23	0.67	0.61	0.00
VC-17 0.00-0.10m	MAR02252.012	Sediment	1.80	0.92	2.42	1.83	2.09	2.11	0.03
VC-17 1.00-1.10m	MAR02252.013	Sediment	2.87	1.65	1.40	1.31	1.27	1.20	0.00
VC-17 2.00-2.10m	MAR02252.014	Sediment	0.83	1.27	1.98	2.67	2.87	3.65	0.08
VC-17 3.00-3.10m	MAR02252.015	Sediment	0.39	0.46	0.90	1.23	0.84	0.75	0.00
VC-17 4.00-4.10m	MAR02252.016	Sediment	1.57	0.69	1.37	3.52	1.11	0.77	0.00
VC-17 5.10-5.20m	MAR02252.017	Sediment	0.68	1.60	2.05	5.16	1.59	0.77	0.00
VC-19 0.00-0.10m	MAR02252.018	Sediment	0.64	0.44	0.89	1.53	4.23	8.10	0.00
VC-19 1.00-1.10m	MAR02252.019	Sediment	0.20	0.17	0.55	0.75	0.61	0.66	0.00
VC-19 2.00-2.10m	MAR02252.020	Sediment	0.00	0.00	0.17	0.17	0.16	0.13	0.00
VC-19 3.00-3.10m	MAR02252.021	Sediment	0.44	0.85	0.51	0.73	0.39	0.23	0.00
VC-26 0.00-0.10m	MAR02252.022	Sediment	1.08	1.63	3.18	3.32	1.97	1.36	0.04
VC-26 1.00-1.10m	MAR02252.023	Sediment	0.50	0.55	0.49	1.17	0.52	0.33	0.00
VC-26 2.00-2.10m	MAR02252.024	Sediment	0.28	0.33	0.39	0.33	0.28	0.29	0.00
VC-26 3.00-3.10m	MAR02252.025	Sediment	1.00	0.54	0.50	1.09	0.27	0.20	0.00

* See Report Notes

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Certificate of Analysis



Issuing Laboratory SOCOTEC, Marine Department, Advanced Chemistry and Research, Etwall House, Bretby Business Park, Ashby Road, Burton-upon-Trent DE15 0YZ

Test Report ID MAR02252
Issue Version 1
Customer Reference Falmouth Harbour - MMO Testing

		Units	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)
		Method No	*SUB_01	*SUB_01	*SUB_01	*SUB_01	*SUB_01	*SUB_01	*SUB_01
		Accreditation	MMO	MMO	MMO	MMO	MMO	MMO	MMO
			500µm	353.6µm	250µm	176.8µm	125µm	88.39µm	63µm
Client Reference:	SOCOTEC Ref:	Matrix	1.0	1.5	2.0	2.5	3.0	3.5	4.0
VC-12A 0.00-0.10m	MAR02252.001	Sediment	0.00	0.15	1.23	1.80	5.43	4.28	2.08
VC-12A 1.00-1.10m	MAR02252.002	Sediment	0.35	0.66	1.06	1.35	5.10	4.94	3.83
VC-12A 2.00-2.10m	MAR02252.003	Sediment	0.00	0.00	0.10	0.97	2.32	4.52	3.20
VC-12A 3.00-3.10	MAR02252.004	Sediment	0.00	0.00	0.01	1.63	3.50	2.00	5.22
VC-12A 4.00-4.10m	MAR02252.005	Sediment	0.75	0.68	1.14	1.64	4.74	3.23	1.38
VC-12A 5.00-5.10m	MAR02252.006	Sediment	1.89	2.51	2.53	3.10	6.33	4.68	3.53
VC-13A 0.00-0.80m	MAR02252.007	Sediment	0.00	0.04	0.62	0.95	2.12	1.79	1.08
VC-14 0.00-0.10m	MAR02252.008	Sediment	0.00	0.18	0.30	1.09	2.17	2.37	1.03
VC-14 1.00-1.10m	MAR02252.009	Sediment	0.00	0.06	0.18	0.76	2.10	4.53	0.85
VC-14 2.00-2.10m	MAR02252.010	Sediment	0.00	0.00	0.00	0.75	4.34	1.23	2.05
VC-14 3.00-3.10m	MAR02252.011	Sediment	0.00	0.00	0.02	0.30	1.33	3.65	0.66
VC-17 0.00-0.10m	MAR02252.012	Sediment	0.47	0.54	0.46	2.24	5.87	4.19	1.95
VC-17 1.00-1.10m	MAR02252.013	Sediment	0.00	0.13	1.23	1.49	2.23	4.84	2.49
VC-17 2.00-2.10m	MAR02252.014	Sediment	0.96	2.30	1.98	3.72	7.41	9.44	6.50
VC-17 3.00-3.10m	MAR02252.015	Sediment	0.00	0.19	0.57	0.62	2.36	3.93	1.35
VC-17 4.00-4.10m	MAR02252.016	Sediment	0.00	0.09	0.24	0.59	3.96	2.48	1.56
VC-17 5.10-5.20m	MAR02252.017	Sediment	0.00	0.12	0.57	0.98	1.82	3.68	1.84
VC-19 0.00-0.10m	MAR02252.018	Sediment	0.00	0.37	1.18	1.74	3.67	5.19	2.47
VC-19 1.00-1.10m	MAR02252.019	Sediment	0.00	0.18	0.90	1.23	4.02	4.01	0.96
VC-19 2.00-2.10m	MAR02252.020	Sediment	0.00	0.08	0.94	1.15	2.47	3.95	0.41
VC-19 3.00-3.10m	MAR02252.021	Sediment	0.00	0.39	1.95	1.96	3.30	4.32	0.55
VC-26 0.00-0.10m	MAR02252.022	Sediment	0.94	1.19	0.70	1.39	5.00	3.81	2.96
VC-26 1.00-1.10m	MAR02252.023	Sediment	0.00	0.11	0.28	1.69	2.48	6.08	4.40
VC-26 2.00-2.10m	MAR02252.024	Sediment	0.00	0.00	0.07	1.20	2.24	5.33	3.37
VC-26 3.00-3.10m	MAR02252.025	Sediment	0.00	0.00	0.00	0.47	3.95	2.17	2.71

* See Report Notes

Certificate of Analysis



Issuing Laboratory SOCOTEC, Marine Department, Advanced Chemistry and Research, Etwall House, Bretby Business Park, Ashby Road, Burton-upon-Trent DE15 0YZ

Test Report ID MAR02252
Issue Version 1
Customer Reference Falmouth Harbour - MMO Testing

		Units	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)
		Method No	*SUB_01	*SUB_01	*SUB_01	*SUB_01	*SUB_01	*SUB_01	*SUB_01
		Accreditation	MMO	MMO	MMO	MMO	MMO	MMO	MMO
			44.2µm	31.3µm	22.1µm	15.6µm	11µm	7.8µm	5.5µm
Client Reference:	SOCOTEC Ref:	Matrix	4.5	5.0	5.5	6.0	6.5	7.0	7.5
VC-12A 0.00-0.10m	MAR02252.001	Sediment	6.32	8.57	9.46	9.93	10.63	10.37	9.14
VC-12A 1.00-1.10m	MAR02252.002	Sediment	6.87	8.44	8.57	8.48	8.81	9.15	8.94
VC-12A 2.00-2.10m	MAR02252.003	Sediment	6.70	10.15	9.59	8.41	8.46	8.58	8.23
VC-12A 3.00-3.10	MAR02252.004	Sediment	7.85	9.18	9.50	9.93	9.51	8.52	8.15
VC-12A 4.00-4.10m	MAR02252.005	Sediment	6.93	9.09	9.18	8.65	8.47	8.47	8.09
VC-12A 5.00-5.10m	MAR02252.006	Sediment	6.64	7.75	7.76	6.69	6.59	6.37	5.72
VC-13A 0.00-0.80m	MAR02252.007	Sediment	2.90	3.94	4.21	4.32	4.64	4.53	3.95
VC-14 0.00-0.10m	MAR02252.008	Sediment	2.58	3.81	3.95	4.02	4.37	4.52	4.20
VC-14 1.00-1.10m	MAR02252.009	Sediment	4.37	8.94	9.02	8.65	8.85	9.27	9.21
VC-14 2.00-2.10m	MAR02252.010	Sediment	6.08	7.57	7.83	8.56	8.64	8.40	8.94
VC-14 3.00-3.10m	MAR02252.011	Sediment	1.95	7.38	8.47	8.47	9.27	9.92	9.73
VC-17 0.00-0.10m	MAR02252.012	Sediment	5.28	6.84	7.28	7.63	8.37	8.54	7.86
VC-17 1.00-1.10m	MAR02252.013	Sediment	1.78	6.12	6.78	6.26	7.60	8.17	8.03
VC-17 2.00-2.10m	MAR02252.014	Sediment	6.69	6.65	5.59	4.83	5.48	5.56	5.05
VC-17 3.00-3.10m	MAR02252.015	Sediment	3.79	7.36	7.93	8.11	8.30	8.75	9.04
VC-17 4.00-4.10m	MAR02252.016	Sediment	5.76	7.36	7.38	7.56	7.42	7.55	7.93
VC-17 5.10-5.20m	MAR02252.017	Sediment	2.70	6.57	7.07	7.02	7.47	8.08	8.13
VC-19 0.00-0.10m	MAR02252.018	Sediment	3.85	6.81	7.55	7.55	8.46	8.46	7.49
VC-19 1.00-1.10m	MAR02252.019	Sediment	4.45	7.35	8.22	8.73	9.22	9.48	9.25
VC-19 2.00-2.10m	MAR02252.020	Sediment	2.97	7.51	8.41	9.07	9.78	10.25	10.13
VC-19 3.00-3.10m	MAR02252.021	Sediment	2.58	6.38	7.15	8.07	8.52	9.02	9.39
VC-26 0.00-0.10m	MAR02252.022	Sediment	5.90	6.98	7.33	7.40	7.90	8.19	7.77
VC-26 1.00-1.10m	MAR02252.023	Sediment	5.42	9.23	8.32	6.88	7.82	7.94	7.40
VC-26 2.00-2.10m	MAR02252.024	Sediment	5.77	9.26	8.73	7.55	7.94	8.40	8.16
VC-26 3.00-3.10m	MAR02252.025	Sediment	6.95	7.97	7.64	7.98	7.67	7.44	8.27

* See Report Notes

MAR02252

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Certificate of Analysis



Issuing Laboratory SOCOTEC, Marine Department, Advanced Chemistry and Research, Etwall House, Bretby Business Park, Ashby Road, Burton-upon-Trent DE15 0YZ

Test Report ID MAR02252
Issue Version 1
Customer Reference Falmouth Harbour - MMO Testing

		Units	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)
		Method No	*SUB_01	*SUB_01	*SUB_01	*SUB_01	*SUB_01	*SUB_01	*SUB_01
		Accreditation	MMO	MMO	MMO	MMO	MMO	MMO	MMO
			3.9µm	2.75µm	1.95µm	1.38µm	0.98µm	0.69µm	0.49µm
Client Reference:	SOCOTEC Ref:	Matrix	8.0	8.5	9.0	9.5	10.0	10.5	11.0
VC-12A 0.00-0.10m	MAR02252.001	Sediment	6.87	4.44	2.49	1.44	1.02	0.90	0.85
VC-12A 1.00-1.10m	MAR02252.002	Sediment	7.34	5.02	2.95	1.80	1.33	1.15	1.04
VC-12A 2.00-2.10m	MAR02252.003	Sediment	6.90	5.03	3.38	2.51	2.11	1.89	1.73
VC-12A 3.00-3.10	MAR02252.004	Sediment	6.91	4.82	2.84	1.80	1.46	1.38	1.35
VC-12A 4.00-4.10m	MAR02252.005	Sediment	6.66	4.71	3.02	2.11	1.70	1.50	1.39
VC-12A 5.00-5.10m	MAR02252.006	Sediment	4.54	3.22	2.13	1.54	1.25	1.08	0.98
VC-13A 0.00-0.80m	MAR02252.007	Sediment	2.91	1.83	0.98	0.54	0.39	0.35	0.33
VC-14 0.00-0.10m	MAR02252.008	Sediment	3.29	2.21	1.31	0.82	0.61	0.53	0.49
VC-14 1.00-1.10m	MAR02252.009	Sediment	7.83	5.70	3.83	2.85	2.41	2.18	2.02
VC-14 2.00-2.10m	MAR02252.010	Sediment	8.10	5.84	3.68	2.65	2.27	2.09	1.98
VC-14 3.00-3.10m	MAR02252.011	Sediment	8.14	5.90	3.90	2.79	2.30	2.06	1.91
VC-17 0.00-0.10m	MAR02252.012	Sediment	6.06	3.95	2.25	1.36	1.02	0.90	0.83
VC-17 1.00-1.10m	MAR02252.013	Sediment	7.01	5.30	3.48	2.24	1.54	1.21	1.09
VC-17 2.00-2.10m	MAR02252.014	Sediment	3.97	2.74	1.70	1.13	0.90	0.80	0.73
VC-17 3.00-3.10m	MAR02252.015	Sediment	7.97	5.84	3.82	2.74	2.26	2.02	1.88
VC-17 4.00-4.10m	MAR02252.016	Sediment	7.06	5.13	3.37	2.53	2.14	1.91	1.79
VC-17 5.10-5.20m	MAR02252.017	Sediment	6.92	5.04	3.43	2.62	2.27	2.07	1.91
VC-19 0.00-0.10m	MAR02252.018	Sediment	5.68	3.77	2.21	1.32	0.90	0.73	0.64
VC-19 1.00-1.10m	MAR02252.019	Sediment	7.68	5.40	3.39	2.33	1.87	1.68	1.58
VC-19 2.00-2.10m	MAR02252.020	Sediment	8.51	6.06	3.88	2.67	2.13	1.88	1.75
VC-19 3.00-3.10m	MAR02252.021	Sediment	8.21	5.89	3.75	2.66	2.22	2.02	1.90
VC-26 0.00-0.10m	MAR02252.022	Sediment	6.21	4.16	2.40	1.46	1.10	0.99	0.93
VC-26 1.00-1.10m	MAR02252.023	Sediment	6.28	4.84	3.48	2.64	2.16	1.87	1.70
VC-26 2.00-2.10m	MAR02252.024	Sediment	6.88	5.12	3.59	2.75	2.30	2.01	1.81
VC-26 3.00-3.10m	MAR02252.025	Sediment	7.75	5.69	3.67	2.74	2.38	2.18	2.04

* See Report Notes

Certificate of Analysis



Issuing Laboratory SOCOTEC, Marine Department, Advanced Chemistry and Research, Etwall House, Bretby Business Park, Ashby Road, Burton-upon-Trent DE15 0YZ

Test Report ID MAR02252
Issue Version 1
Customer Reference Falmouth Harbour - MMO Testing

		Units	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)
		Method No	*SUB_01	*SUB_01	*SUB_01	*SUB_01	*SUB_01	*SUB_01	*SUB_01
		Accreditation	MMO	MMO	MMO	MMO	MMO	MMO	MMO
			0.34µm	0.24µm	0.17µm	0.12µm	0.09µm	0.06µm	0.04µm
Client Reference:	SOCOTEC Ref:	Matrix	11.5	12.0	12.5	13.0	13.5	14.0	14.5
VC-12A 0.00-0.10m	MAR02252.001	Sediment	0.77	0.65	0.49	0.36	0.22	0.09	0.01
VC-12A 1.00-1.10m	MAR02252.002	Sediment	0.92	0.74	0.52	0.35	0.20	0.08	0.01
VC-12A 2.00-2.10m	MAR02252.003	Sediment	1.55	1.31	0.99	0.73	0.45	0.18	0.02
VC-12A 3.00-3.10	MAR02252.004	Sediment	1.27	1.11	0.86	0.64	0.40	0.16	0.02
VC-12A 4.00-4.10m	MAR02252.005	Sediment	1.27	1.09	0.84	0.61	0.38	0.15	0.02
VC-12A 5.00-5.10m	MAR02252.006	Sediment	0.87	0.73	0.54	0.38	0.23	0.09	0.01
VC-13A 0.00-0.80m	MAR02252.007	Sediment	0.30	0.25	0.18	0.13	0.08	0.03	0.00
VC-14 0.00-0.10m	MAR02252.008	Sediment	0.44	0.37	0.29	0.21	0.13	0.05	0.01
VC-14 1.00-1.10m	MAR02252.009	Sediment	1.83	1.56	1.17	0.84	0.51	0.20	0.02
VC-14 2.00-2.10m	MAR02252.010	Sediment	1.83	1.58	1.19	0.86	0.52	0.20	0.02
VC-14 3.00-3.10m	MAR02252.011	Sediment	1.73	1.47	1.11	0.81	0.49	0.19	0.02
VC-17 0.00-0.10m	MAR02252.012	Sediment	0.73	0.60	0.43	0.30	0.18	0.07	0.01
VC-17 1.00-1.10m	MAR02252.013	Sediment	0.99	0.79	0.50	0.28	0.13	0.04	0.00
VC-17 2.00-2.10m	MAR02252.014	Sediment	0.65	0.55	0.44	0.33	0.21	0.09	0.01
VC-17 3.00-3.10m	MAR02252.015	Sediment	1.72	1.45	1.05	0.73	0.42	0.16	0.02
VC-17 4.00-4.10m	MAR02252.016	Sediment	1.65	1.41	1.02	0.70	0.41	0.15	0.02
VC-17 5.10-5.20m	MAR02252.017	Sediment	1.72	1.45	1.08	0.77	0.47	0.18	0.02
VC-19 0.00-0.10m	MAR02252.018	Sediment	0.56	0.46	0.34	0.23	0.14	0.06	0.01
VC-19 1.00-1.10m	MAR02252.019	Sediment	1.45	1.23	0.91	0.65	0.38	0.15	0.02
VC-19 2.00-2.10m	MAR02252.020	Sediment	1.61	1.38	1.02	0.72	0.43	0.17	0.02
VC-19 3.00-3.10m	MAR02252.021	Sediment	1.75	1.48	1.09	0.76	0.45	0.17	0.02
VC-26 0.00-0.10m	MAR02252.022	Sediment	0.85	0.70	0.51	0.35	0.21	0.08	0.01
VC-26 1.00-1.10m	MAR02252.023	Sediment	1.55	1.33	1.01	0.74	0.46	0.18	0.02
VC-26 2.00-2.10m	MAR02252.024	Sediment	1.63	1.39	1.05	0.77	0.47	0.19	0.02
VC-26 3.00-3.10m	MAR02252.025	Sediment	1.89	1.62	1.21	0.87	0.52	0.20	0.02

* See Report Notes

MAR02252

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Issuing Laboratory SOCOTEC, Marine Department, Advanced Chemistry and Research, Etwall House, Bretby Business Park, Ashby Road, Burton-upon-Trent DE15 0YZ

Test Report ID MAR02252
Issue Version 1
Customer Reference Falmouth Harbour - MMO Testing

		Units	% (at 0.5phi intervals)
		Method No	*SUB_01
		Accreditation	MMO
			<0.04µm
Client Reference:	SOCOTEC Ref:	Matrix	>14.5
VC-12A 0.00-0.10m	MAR02252.001	Sediment	0.00
VC-12A 1.00-1.10m	MAR02252.002	Sediment	0.00
VC-12A 2.00-2.10m	MAR02252.003	Sediment	0.00
VC-12A 3.00-3.10	MAR02252.004	Sediment	0.00
VC-12A 4.00-4.10m	MAR02252.005	Sediment	0.00
VC-12A 5.00-5.10m	MAR02252.006	Sediment	0.00
VC-13A 0.00-0.80m	MAR02252.007	Sediment	0.00
VC-14 0.00-0.10m	MAR02252.008	Sediment	0.00
VC-14 1.00-1.10m	MAR02252.009	Sediment	0.00
VC-14 2.00-2.10m	MAR02252.010	Sediment	0.00
VC-14 3.00-3.10m	MAR02252.011	Sediment	0.00
VC-17 0.00-0.10m	MAR02252.012	Sediment	0.00
VC-17 1.00-1.10m	MAR02252.013	Sediment	0.00
VC-17 2.00-2.10m	MAR02252.014	Sediment	0.00
VC-17 3.00-3.10m	MAR02252.015	Sediment	0.00
VC-17 4.00-4.10m	MAR02252.016	Sediment	0.00
VC-17 5.10-5.20m	MAR02252.017	Sediment	0.00
VC-19 0.00-0.10m	MAR02252.018	Sediment	0.00
VC-19 1.00-1.10m	MAR02252.019	Sediment	0.00
VC-19 2.00-2.10m	MAR02252.020	Sediment	0.00
VC-19 3.00-3.10m	MAR02252.021	Sediment	0.00
VC-26 0.00-0.10m	MAR02252.022	Sediment	0.00
VC-26 1.00-1.10m	MAR02252.023	Sediment	0.00
VC-26 2.00-2.10m	MAR02252.024	Sediment	0.00
VC-26 3.00-3.10m	MAR02252.025	Sediment	0.00

* See Report Notes

MAR02252

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Test Report ID MAR02252
Issue Version 1
Customer Reference Falmouth Harbour - MMO Testing

		Units	mg/Kg (Dry Weight)							
		Method No	ICPMSS*							
		Limit of Detection	0.5	0.04	0.5	0.5	0.01	0.5	0.5	2
		Accreditation	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO
Client Reference:	SOCOTEC Ref:	Matrix	Arsenic (As)	Cadmium (Cd)	Chromium (Cr)	Copper (Cu)	Mercury (Hg)	Nickel (Ni)	Lead (Pb)	Zinc (Zn)
VC-12A 0.00-0.10m	MAR02252.001	Sediment	51.4	0.30	30.8	268	1.82	25.6	169	416
VC-12A 1.00-1.10m	MAR02252.002	Sediment	62.6	0.94	33.2	390	8.96	30.8	586	1369
VC-12A 2.00-2.10m	MAR02252.003	Sediment	10.1	0.30	30.9	21.8	0.16	28.4	23.7	125
VC-12A 3.00-3.10	MAR02252.004	Sediment	9.9	0.38	32.4	15.9	0.05	29.7	18.7	102
VC-12A 4.00-4.10m	MAR02252.005	Sediment	9.4	0.34	28.1	14.1	0.06	26.5	17.5	78.3
VC-12A 5.00-5.10m	MAR02252.006	Sediment	7.2	0.37	23.7	13.6	0.05	24.5	16.0	76.2
VC-13A 0.00-0.80m	MAR02252.007	Sediment	30.7	0.62	27.6	290	1.31	29.6	337	1126
VC-14 0.00-0.10m	MAR02252.008	Sediment	13.6	0.16	9.3	106	0.61	11.3	513	313
VC-14 1.00-1.10m	MAR02252.009	Sediment	13.0	0.31	34.2	21.4	0.08	35.9	31.9	101
VC-14 2.00-2.10m	MAR02252.010	Sediment	10.9	0.23	24.7	14.8	0.05	26.1	17.9	75.7
VC-14 3.00-3.10m	MAR02252.011	Sediment	11.8	0.26	28.3	13.5	0.05	28.2	15.4	84.2
VC-17 0.00-0.10m	MAR02252.012	Sediment	44.4	0.36	34.8	374	1.92	35.8	328	813
VC-17 1.00-1.10m	MAR02252.013	Sediment	90.6	0.84	34.6	403	10.6	46.3	779	761
VC-17 2.00-2.10m	MAR02252.014	Sediment	13.0	0.18	15.1	64.0	0.96	17.4	69.9	110
VC-17 3.00-3.10m	MAR02252.015	Sediment	9.9	0.25	28.4	14.8	0.14	30.0	18.5	80.0
VC-17 4.00-4.10m	MAR02252.016	Sediment	10.4	0.23	29.8	13.8	0.12	31.7	16.9	80.5
VC-17 5.10-5.20m	MAR02252.017	Sediment	9.7	0.17	24.0	12.8	0.11	27.3	12.7	66.2
VC-19 0.00-0.10m	MAR02252.018	Sediment	49.9	1.02	165	1349	1.90	83.0	926	8784
VC-19 1.00-1.10m	MAR02252.019	Sediment	13.0	0.29	32.6	92.0	0.25	32.8	64.7	553
VC-19 2.00-2.10m	MAR02252.020	Sediment	12.0	0.26	25.9	18.6	0.14	29.6	20.4	112
VC-19 3.00-3.10m	MAR02252.021	Sediment	21.7	0.29	28.6	14.0	0.13	30.9	16.5	97.3
VC-26 0.00-0.10m	MAR02252.022	Sediment	47.8	0.31	26.6	283	3.07	31.0	294	632
VC-26 1.00-1.10m	MAR02252.023	Sediment	11.9	0.16	28.0	15.2	0.10	50.4	18.5	117
VC-26 2.00-2.10m	MAR02252.024	Sediment	10.9	0.17	26.4	11.4	0.07	29.8	13.0	77.5
VC-26 3.00-3.10m	MAR02252.025	Sediment	10.8	0.22	30.1	14.0	0.07	32.0	15.5	81.0
Certified Reference Material SETOC 768 (% Recovery)			101	108	99	105	103	98	100	102
QC Blank			<0.5	<0.04	<0.5	<0.5	<0.01	<0.5	<0.5	<2

* See Report Notes

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Test Report ID MAR02252
 Issue Version 1
 Customer Reference Falmouth Harbour - MMO Testing

		Units	mg/Kg (Dry Weight)	
		Method No	ASC/SOP/301	
		Limit of Detection	0.001	0.001
		Accreditation	UKAS/MMO	UKAS/MMO
Client Reference:	SOCOTEC Ref:	Matrix	Dibutyltin (DBT)	Tributyltin (TBT)
VC-12A 0.00-0.10m	MAR02252.001	Sediment	0.172	0.479
VC-12A 1.00-1.10m	MAR02252.002	Sediment	<0.005	0.011
VC-12A 2.00-2.10m	MAR02252.003	Sediment	<0.005	<0.005
VC-12A 3.00-3.10	MAR02252.004	Sediment	<0.005	<0.005
VC-12A 4.00-4.10m	MAR02252.005	Sediment	<0.005	<0.005
VC-12A 5.00-5.10m	MAR02252.006	Sediment	<0.005	<0.005
VC-13A 0.00-0.80m	MAR02252.007	Sediment	0.352	2.32
VC-14 0.00-0.10m	MAR02252.008	Sediment	0.118	0.469
VC-14 1.00-1.10m	MAR02252.009	Sediment	<0.005	<0.005
VC-14 2.00-2.10m	MAR02252.010	Sediment	<0.005	<0.005
Certified Reference Material BCR-646 (% Recovery)			114	95
QC Blank			<0.001	<0.001

* See Report Notes

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Test Report ID MAR02252
 Issue Version 1
 Customer Reference Falmouth Harbour - MMO Testing

		Units	mg/Kg (Dry Weight)	
		Method No	ASC/SOP/301	
		Limit of Detection	0.001	0.001
		Accreditation	UKAS/MMO	UKAS/MMO
Client Reference:	SOCOTEC Ref:	Matrix	Dibutyltin (DBT)	Tributyltin (TBT)
VC-14 3.00-3.10m	MAR02252.011	Sediment	<0.005	<0.005
VC-17 0.00-0.10m	MAR02252.012	Sediment	0.269	0.689
VC-17 1.00-1.10m	MAR02252.013	Sediment	<0.005	<0.005
VC-17 2.00-2.10m	MAR02252.014	Sediment	<0.005	<0.005
VC-17 3.00-3.10m	MAR02252.015	Sediment	<0.005	<0.005
VC-17 4.00-4.10m	MAR02252.016	Sediment	<0.005	<0.005
VC-17 5.10-5.20m	MAR02252.017	Sediment	<0.005	<0.005
VC-19 0.00-0.10m	MAR02252.018	Sediment	0.385	1.84
VC-19 1.00-1.10m	MAR02252.019	Sediment	<0.005	0.009
VC-19 2.00-2.10m	MAR02252.020	Sediment	<0.005	<0.005
Certified Reference Material BCR-646 (% Recovery)			123	108
QC Blank			<0.001	<0.001

* See Report Notes

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Test Report ID MAR02252
 Issue Version 1
 Customer Reference Falmouth Harbour - MMO Testing

		Units	mg/Kg (Dry Weight)	
		Method No	ASC/SOP/301	
		Limit of Detection	0.001	0.001
		Accreditation	UKAS/MMO	UKAS/MMO
Client Reference:	SOCOTEC Ref:	Matrix	Dibutyltin (DBT)	Tributyltin (TBT)
VC-19 3.00-3.10m	MAR02252.021	Sediment	<0.005	<0.005
VC-26 0.00-0.10m	MAR02252.022	Sediment	0.120	0.212
VC-26 1.00-1.10m	MAR02252.023	Sediment	<0.005	<0.005
VC-26 2.00-2.10m	MAR02252.024	Sediment	<0.005	<0.005
VC-26 3.00-3.10m	MAR02252.025	Sediment	<0.005	<0.005
Certified Reference Material BCR-646 (% Recovery)			123	105
QC Blank			<0.001	<0.001

* See Report Notes

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Test Report ID MAR02252
Issue Version 1
Customer Reference Falmouth Harbour - MMO Testing

		Units	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)
		Method No	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304
		Limit of Detection	1	1	1	1	1	1	1	1
		Accreditation	MMO*	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO
Client Reference:	SOCOTEC Ref:	Matrix	ACENAPTH	ACENAPHY	ANTHRACN	BAA	BAP	BBF	BENZGHIP	BEP
VC-12A 0.00-0.10m	MAR02252.001	Sediment	95.6	217	312	854	1770	1670	1220	1180
VC-12A 1.00-1.10m	MAR02252.002	Sediment	426	955	1770	7780	10600	8360	6320	6060
VC-12A 2.00-2.10m	MAR02252.003	Sediment	<5	<5	<5	15.5	14.1	13.1	9.72	8.82
VC-12A 3.00-3.10	MAR02252.004	Sediment	<5	<5	<5	<5	<5	<5	<5	<5
VC-12A 4.00-4.10m	MAR02252.005	Sediment	<5	<5	<5	<5	<5	<5	<5	<5
Certified Reference Material Nist 1941b (% Recovery)			100	111	65	68	65	84	77	76
QC Blank			<1	<1	<1	<1	<1	<1	<1	<1

- Indicates result is for an In-house Reference Material as no Certified Reference Materials are available.

For full analyte name see method summaries.

*See report notes

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Test Report ID MAR02252
Issue Version 1
Customer Reference Falmouth Harbour - MMO Testing

		Units	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)
		Method No	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304
		Limit of Detection	1	1	1	1	1	1	1	1
		Accreditation	UKAS/MMO	MMO	MMO	MMO	MMO	MMO	UKAS/MMO	UKAS/MMO
Client Reference:	SOCOTEC Ref:	Matrix	BKF*	C1N	C1PHEN	C2N	C3N	CHRYSENE*	DBENZAH	FLUORANT
VC-12A 0.00-0.10m	MAR02252.001	Sediment	1440	166	520	220	150	965	248	1640
VC-12A 1.00-1.10m	MAR02252.002	Sediment	8160	691	3420	933	835	8500	1230	13100
VC-12A 2.00-2.10m	MAR02252.003	Sediment	11.5	<5	<5	24.6	<5	9.56	<5	14.6
VC-12A 3.00-3.10	MAR02252.004	Sediment	<5	<5	<5	33.7	<5	<5	<5	<5
VC-12A 4.00-4.10m	MAR02252.005	Sediment	<5	<5	<5	39.0	<5	<5	<5	<5
Certified Reference Material Nist 1941b (% Recovery)			79	77	96	114	119	86	105	87
QC Blank			<1	<1	<1	<1	<1	<1	<1	<1

- Indicates result is for an In-house Reference Material as no Certified Reference Materials are available.

For full analyte name see method summaries.

*See report notes

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Test Report ID MAR02252
Issue Version 1
Customer Reference Falmouth Harbour - MMO Testing

		Units	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	mg/Kg
		Method No	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/305
		Limit of Detection	1	1	1	1	1	1	1
		Accreditation	MMO*	UKAS/MMO	UKAS/MMO	MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO
Client Reference:	SOCOTEC Ref:	Matrix	FLUORENE	INDPYR	NAPTH	PERYLENE	PHENANT	PYRENE	THC
VC-12A 0.00-0.10m	MAR02252.001	Sediment	129	1290	152	319	692	2350	427
VC-12A 1.00-1.10m	MAR02252.002	Sediment	717	6880	688	2300	4200	14900	3850
VC-12A 2.00-2.10m	MAR02252.003	Sediment	<5	9.04	<5	422	<5	22.2	36.0
VC-12A 3.00-3.10	MAR02252.004	Sediment	<5	<5	<5	895	<5	<5	19.4
VC-12A 4.00-4.10m	MAR02252.005	Sediment	<5	<5	<5	720	<5	<5	4.47
Certified Reference Material Nist 1941b (% Recovery)			57	76	60	50	74	72	91~
QC Blank			<1	<1	<1	<1	<1	<1	<1

~ Indicates result is for an In-house Reference Material as no Certified Reference Materials are available.

For full analyte name see method summaries.

*See report notes

MAR02252

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Test Report ID MAR02252
Issue Version 1
Customer Reference Falmouth Harbour - MMO Testing

		Units	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)
		Method No	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304
		Limit of Detection	1	1	1	1	1	1	1	1
		Accreditation	UKAS/MMO	MMO*	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO
Client Reference:	SOCOTEC Ref:	Matrix	ACENAPTH	ACENAPHY	ANTHRACN	BAA	BAP	BBF	BENZGHIP	BEP
VC-12A 5.00-5.10m	MAR02252.006	Sediment	<5	<5	<5	<5	<5	<5	<5	<5
VC-13A 0.00-0.80m	MAR02252.007	Sediment	42600	1430	16100	8190	4780	5510	1750	3230
VC-14 0.00-0.10m	MAR02252.008	Sediment	93.7	112	121	718	1010	783	588	569
VC-14 1.00-1.10m	MAR02252.009	Sediment	<5	<5	<5	<5	<5	<5	<5	<5
VC-14 2.00-2.10m	MAR02252.010	Sediment	<5	<5	<5	<5	<5	<5	<5	<5
VC-14 3.00-3.10m	MAR02252.011	Sediment	<5	<5	<5	<5	<5	<5	<5	<5
VC-17 0.00-0.10m	MAR02252.012	Sediment	78	173	343	830	1770	1700	1190	1170
VC-17 1.00-1.10m	MAR02252.013	Sediment	784	796	4540	6100	7270	6700	4290	5020
VC-17 2.00-2.10m	MAR02252.014	Sediment	31.1	43.0	125	516	775	601	450	424
VC-17 3.00-3.10m	MAR02252.015	Sediment	<5	<5	<5	<5	<5	<5	<5	<5
Certified Reference Material Nist 1941b (% Recovery)			89	106	66	62	62	82	78	75
QC Blank			<1	<1	<1	<1	<1	<1	<1	<1

~ Indicates result is for an In-house Reference Material as no Certified Reference Materials are available.

For full analyte name see method summaries.

*See report notes

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Test Report ID MAR02252
Issue Version 1
Customer Reference Falmouth Harbour - MMO Testing

		Units	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)
		Method No	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304
		Limit of Detection	1	1	1	1	1	1	1	1
		Accreditation	UKAS/MMO	MMO	MMO	MMO	MMO	MMO	UKAS/MMO	UKAS/MMO
Client Reference:	SOCOTEC Ref:	Matrix	BKF*	C1N	C1PHEN	C2N	C3N	CHRYSENE*	DBENZAH	FLUORANT
VC-12A 5.00-5.10m	MAR02252.006	Sediment	<5	<5	<5	41.5	<5	<5	<5	<5
VC-13A 0.00-0.80m	MAR02252.007	Sediment	4730	44000	19600	22000	9690	8300	383	43600
VC-14 0.00-0.10m	MAR02252.008	Sediment	823	133	371	140	84	756	149	850
VC-14 1.00-1.10m	MAR02252.009	Sediment	<5	<5	<5	27.4	<5	<5	<5	<5
VC-14 2.00-2.10m	MAR02252.010	Sediment	<5	<5	<5	30.1	<5	<5	<5	<5
VC-14 3.00-3.10m	MAR02252.011	Sediment	<5	<5	<5	55.7	<5	<5	<5	<5
VC-17 0.00-0.10m	MAR02252.012	Sediment	1450	101	458	116	113	941	272	1530
VC-17 1.00-1.10m	MAR02252.013	Sediment	6000	818	3480	1520	1490	6540	1000	12800
VC-17 2.00-2.10m	MAR02252.014	Sediment	577	54.5	228	72.1	50.2	528	122	1080
VC-17 3.00-3.10m	MAR02252.015	Sediment	<5	<5	<5	27.6	<5	<5	<5	<5
Certified Reference Material Nist 1941b (% Recovery)			70	75	88	107	110	80	106	79
QC Blank			<1	<1	<1	<1	<1	<1	<1	<1

~ Indicates result is for an In-house Reference Material as no Certified Reference Materials are available.

For full analyte name see method summaries.

*See report notes

MAR02252

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Certificate of Analysis



Issuing Laboratory SOCOTEC, Marine Department, Advanced Chemistry and Research, Etwall House, Bretby Business Park, Ashby Road, Burton-upon-Trent DE15 0YZ

Test Report ID MAR02252
Issue Version 1
Customer Reference Falmouth Harbour - MMO Testing

		Units	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	mg/Kg
		Method No	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/305
		Limit of Detection	1	1	1	1	1	1	1
		Accreditation	UKAS/MMO	UKAS/MMO	UKAS/MMO	MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO
Client Reference:	SOCOTEC Ref:	Matrix	FLUORENE	INDPYR	NAPTH	PERYLENE	PHENANT	PYRENE	THC
VC-12A 5.00-5.10m	MAR02252.006	Sediment	<5	<5	<5	576	<5	<5	6.72
VC-13A 0.00-0.80m	MAR02252.007	Sediment	38400	1700	47000	1260	95100	31100	4620
VC-14 0.00-0.10m	MAR02252.008	Sediment	118	637	103	191	365	887	40.5
VC-14 1.00-1.10m	MAR02252.009	Sediment	<5	<5	<5	356	<5	<5	7.02
VC-14 2.00-2.10m	MAR02252.010	Sediment	<5	<5	<5	377	<5	<5	8.76
VC-14 3.00-3.10m	MAR02252.011	Sediment	<5	<5	<5	587	<5	<5	10.2
VC-17 0.00-0.10m	MAR02252.012	Sediment	99	1330	80	340	645	2830	798
VC-17 1.00-1.10m	MAR02252.013	Sediment	1000	4410	701	1840	4830	27800	491
VC-17 2.00-2.10m	MAR02252.014	Sediment	47.2	519	49.1	182	313	1260	115
VC-17 3.00-3.10m	MAR02252.015	Sediment	<5	<5	<5	447	<5	<5	16.5
Certified Reference Material Nist 1941b (% Recovery)			51	76	59	51	76	68	92~
QC Blank			<1	<1	<1	<1	<1	<1	<1

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Test Report ID MAR02252
Issue Version 1
Customer Reference Falmouth Harbour - MMO Testing

		Units	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)
		Method No	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304
		Limit of Detection	1	1	1	1	1	1	1	1
		Accreditation	UKAS/MMO	MMO*	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO
Client Reference:	SOCOTEC Ref:	Matrix	ACENAPTH	ACENAPHY	ANTHRACN	BAA	BAP	BBF	BENZGHIP	BEP
VC-17 4.00-4.10m	MAR02252.016	Sediment	<5	<5	<5	<5	<5	<5	<5	<5
VC-17 5.10-5.20m	MAR02252.017	Sediment	<5	<5	<5	<5	<5	<5	<5	<5
VC-19 0.00-0.10m	MAR02252.018	Sediment	51.7	62.5	90.6	316	651	600	468	429
VC-19 1.00-1.10m	MAR02252.019	Sediment	3.25	5.64	8.54	30.1	59.7	49.0	42.2	35.5
VC-19 2.00-2.10m	MAR02252.020	Sediment	1.77	<1	<1	2.19	3.27	2.78	2.54	2.11
VC-19 3.00-3.10m	MAR02252.021	Sediment	<1	<1	<1	<1	<1	<1	<1	<1
VC-26 0.00-0.10m	MAR02252.022	Sediment	64.6	86.6	135	481	1010	945	739	701
VC-26 1.00-1.10m	MAR02252.023	Sediment	<1	<1	<1	2.68	6.51	5.61	5.78	4.68
VC-26 2.00-2.10m	MAR02252.024	Sediment	<1	<1	<1	<1	<1	<1	<1	<1
VC-26 3.00-3.10m	MAR02252.025	Sediment	2.37	<1	<1	<1	<1	<1	<1	<1
Certified Reference Material Nist 1941b (% Recovery)			92	106	69	73	71	93	85	92
QC Blank			<1	<1	<1	<1	<1	<1	<1	<1

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For full analyte name see method summaries.

*See report notes

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Certificate of Analysis



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Test Report ID MAR02252
Issue Version 1
Customer Reference Falmouth Harbour - MMO Testing

		Units	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)
		Method No	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304
		Limit of Detection	1	1	1	1	1	1	1	1
		Accreditation	UKAS/MMO	MMO	MMO	MMO	MMO	MMO	UKAS/MMO	UKAS/MMO
Client Reference:	SOCOTEC Ref:	Matrix	BKF*	C1N	C1PHEN	C2N	C3N	CHRYSENE*	DBENZAH	FLUORANT
VC-17 4.00-4.10m	MAR02252.016	Sediment	<5	<5	<5	25.4	<5	<5	<5	<5
VC-17 5.10-5.20m	MAR02252.017	Sediment	<5	<5	<5	39.7	<5	<5	<5	<5
VC-19 0.00-0.10m	MAR02252.018	Sediment	536	60.2	153	71.8	46.7	359	109	536
VC-19 1.00-1.10m	MAR02252.019	Sediment	46.1	5.72	17.5	63.6	7.85	32.4	10.3	47.8
VC-19 2.00-2.10m	MAR02252.020	Sediment	2.87	1.91	4.68	42.5	3.12	2.89	<1	3.28
VC-19 3.00-3.10m	MAR02252.021	Sediment	<1	2.35	1.68	37.5	3.77	<1	<1	<1
VC-26 0.00-0.10m	MAR02252.022	Sediment	815	64.2	231	84.0	62.4	571	172	916
VC-26 1.00-1.10m	MAR02252.023	Sediment	4.93	2.93	3.51	20.5	1.99	3.62	1.18	4.96
VC-26 2.00-2.10m	MAR02252.024	Sediment	<1	1.92	1.85	19.0	2.55	<1	<1	<1
VC-26 3.00-3.10m	MAR02252.025	Sediment	<1	<1	2.16	22.8	2.66	<1	<1	<1
Certified Reference Material Nist 1941b (% Recovery)			85	74	82	116	121	92	128	84
QC Blank			<1	<1	<1	<1	<1	<1	<1	<1

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For full analyte name see method summaries.

*See report notes

MAR02252

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Test Report ID MAR02252
Issue Version 1
Customer Reference Falmouth Harbour - MMO Testing

		Units	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	mg/Kg
		Method No	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/305
		Limit of Detection	1	1	1	1	1	1	1
		Accreditation	UKAS/MMO	UKAS/MMO	UKAS/MMO	MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO
Client Reference:	SOCOTEC Ref:	Matrix	FLUORENE	INDPYR	NAPTH	PERYLENE	PHENANT	PYRENE	THC
VC-17 4.00-4.10m	MAR02252.016	Sediment	<5	<5	<5	400	<5	<5	6.54
VC-17 5.10-5.20m	MAR02252.017	Sediment	<5	<5	<5	422	<5	<5	4.52
VC-19 0.00-0.10m	MAR02252.018	Sediment	51.7	509	44.9	136	232	656	26.5
VC-19 1.00-1.10m	MAR02252.019	Sediment	3.10	45.5	4.35	662	16.7	63.1	48.3
VC-19 2.00-2.10m	MAR02252.020	Sediment	<1	2.54	<1	658	<1	3.46	8.35
VC-19 3.00-3.10m	MAR02252.021	Sediment	<1	<1	1.81	629	<1	<1	6.24
VC-26 0.00-0.10m	MAR02252.022	Sediment	67.1	804	47.8	185	442	1310	741
VC-26 1.00-1.10m	MAR02252.023	Sediment	<1	4.97	1.86	231	3.68	6.99	4.09
VC-26 2.00-2.10m	MAR02252.024	Sediment	<1	<1	<1	317	<1	<1	2.60
VC-26 3.00-3.10m	MAR02252.025	Sediment	<1	<1	2.49	456	<1	<1	3.02
Certified Reference Material Nist 1941b (% Recovery)			55	92	62	62	82	74	94~
QC Blank			<1	<1	<1	<1	<1	<1	<1

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Test Report ID MAR02252
Issue Version 1
Customer Reference Falmouth Harbour - MMO Testing

		Units	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)
		Method No	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302
		Limit of Detection	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008
		Accreditation	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO
Client Reference:	SOCOTEC Ref:	Matrix	PCB 101	PCB 105	PCB 110	PCB 118	PCB 128	PCB 138	PCB 141
VC-12A 0.00-0.10m	MAR02252.001	Sediment	0.01203	0.00470	0.01067	0.01057	0.00149	0.00795	0.00110
VC-12A 1.00-1.10m	MAR02252.002	Sediment	0.00073	0.00018	0.00073	0.00072	0.00020	0.00103	0.00017
VC-12A 2.00-2.10m	MAR02252.003	Sediment	0.00013	<0.00008	0.00011	0.00011	<0.00008	0.00010	<0.00008
VC-12A 3.00-3.10	MAR02252.004	Sediment	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008
VC-12A 4.00-4.10m	MAR02252.005	Sediment	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008
VC-12A 5.00-5.10m	MAR02252.006	Sediment	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008
VC-13A 0.00-0.80m	MAR02252.007	Sediment	0.02228	0.00995	0.12381	0.08546	0.00382	0.02085	0.00528
VC-14 0.00-0.10m	MAR02252.008	Sediment	0.00470	0.00086	0.00358	0.00416	0.00101	0.00511	0.00068
VC-14 1.00-1.10m	MAR02252.009	Sediment	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008
Certified Reference Material Nist 1941b (% Recovery)			90	74	100	95	88	103	98~
QC Blank			<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008

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Certificate of Analysis



Issuing Laboratory SOCOTEC, Marine Department, Advanced Chemistry and Research, Etwall House, Bretby Business Park, Ashby Road, Burton-upon-Trent DE15 0YZ

Test Report ID MAR02252
Issue Version 1
Customer Reference Falmouth Harbour - MMO Testing

		Units	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)
		Method No	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302
		Limit of Detection	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008
		Accreditation	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO
Client Reference:	SOCOTEC Ref:	Matrix	PCB 149	PCB 151	PCB 153	PCB 156	PCB 158	PCB 170	PCB 18
VC-12A 0.00-0.10m	MAR02252.001	Sediment	0.01073	0.00310	0.01498	0.00095	0.00146	0.00394	0.00228
VC-12A 1.00-1.10m	MAR02252.002	Sediment	0.00119	0.00019	0.00170	0.00015	0.00009	0.00056	0.00025
VC-12A 2.00-2.10m	MAR02252.003	Sediment	0.00012	<0.00008	0.00017	<0.00008	<0.00008	<0.00008	<0.00008
VC-12A 3.00-3.10	MAR02252.004	Sediment	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008
VC-12A 4.00-4.10m	MAR02252.005	Sediment	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008
VC-12A 5.00-5.10m	MAR02252.006	Sediment	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008
VC-13A 0.00-0.80m	MAR02252.007	Sediment	0.10291	0.00643	0.02759	0.00253	0.00356	0.01014	0.00560
VC-14 0.00-0.10m	MAR02252.008	Sediment	0.00570	0.00134	0.00786	0.00062	0.00079	0.00181	0.00084
VC-14 1.00-1.10m	MAR02252.009	Sediment	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008
Certified Reference Material Nist 1941b (% Recovery)			98	98~	93	85	93	97	95
QC Blank			<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008

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Certificate of Analysis



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Test Report ID MAR02252
 Issue Version 1
 Customer Reference Falmouth Harbour - MMO Testing

		Units	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)
		Method No	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302
		Limit of Detection	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008
		Accreditation	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO
Client Reference:	SOCOTEC Ref:	Matrix	PCB 180	PCB 183	PCB 187	PCB 194	PCB 28	PCB 31	PCB 44
VC-12A 0.00-0.10m	MAR02252.001	Sediment	0.00784	0.00194	0.00484	0.00201	0.00268	0.00340	0.01151
VC-12A 1.00-1.10m	MAR02252.002	Sediment	0.00214	0.00049	0.00132	0.00129	0.00023	0.00020	0.00024
VC-12A 2.00-2.10m	MAR02252.003	Sediment	0.00010	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008
VC-12A 3.00-3.10	MAR02252.004	Sediment	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008
VC-12A 4.00-4.10m	MAR02252.005	Sediment	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008
VC-12A 5.00-5.10m	MAR02252.006	Sediment	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008
VC-13A 0.00-0.80m	MAR02252.007	Sediment	0.02412	0.00592	0.01277	0.00734	0.00590	0.00871	0.00527
VC-14 0.00-0.10m	MAR02252.008	Sediment	0.00367	0.00098	0.00233	0.00103	0.00124	0.00108	0.00168
VC-14 1.00-1.10m	MAR02252.009	Sediment	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008
Certified Reference Material Nist 1941b (% Recovery)			96	80	84	106	83	106	99
QC Blank			<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008

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Certificate of Analysis



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Test Report ID MAR02252
Issue Version 1
Customer Reference Falmouth Harbour - MMO Testing

		Units	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)
		Method No	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302
		Limit of Detection	0.00008	0.00008	0.00008	0.00008
		Accreditation	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO
Client Reference:	SOCOTEC Ref:	Matrix	PCB 47	PCB 49	PCB 52	PCB 66
VC-12A 0.00-0.10m	MAR02252.001	Sediment	0.00360	0.01224	0.01588	0.01109
VC-12A 1.00-1.10m	MAR02252.002	Sediment	0.00012	0.00039	0.00058	0.00028
VC-12A 2.00-2.10m	MAR02252.003	Sediment	<0.00008	<0.00008	0.00011	<0.00008
VC-12A 3.00-3.10	MAR02252.004	Sediment	0.00012	<0.00008	<0.00008	<0.00008
VC-12A 4.00-4.10m	MAR02252.005	Sediment	<0.00008	<0.00008	<0.00008	<0.00008
VC-12A 5.00-5.10m	MAR02252.006	Sediment	<0.00008	<0.00008	<0.00008	<0.00008
VC-13A 0.00-0.80m	MAR02252.007	Sediment	0.00334	0.01368	0.02920	<0.00008
VC-14 0.00-0.10m	MAR02252.008	Sediment	0.00077	0.00230	0.00284	0.00221
VC-14 1.00-1.10m	MAR02252.009	Sediment	<0.00008	<0.00008	<0.00008	<0.00008
Certified Reference Material Nist 1941b (% Recovery)			98~	106	101	98
QC Blank			<0.00008	<0.00008	<0.00008	<0.00008

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Test Report ID MAR02252
Issue Version 1
Customer Reference Falmouth Harbour - MMO Testing

		Units	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)
		Method No	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302
		Limit of Detection	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008
		Accreditation	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	MMO*	UKAS/MMO	UKAS/MMO
Client Reference:	SOCOTEC Ref:	Matrix	PCB 101	PCB 105	PCB 110	PCB 118	PCB 128	PCB 138	PCB 141
VC-14 2.00-2.10m	MAR02252.010	Sediment	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008
VC-14 3.00-3.10m	MAR02252.011	Sediment	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008
VC-17 0.00-0.10m	MAR02252.012	Sediment	0.00642	0.00134	0.00576	0.00524	0.00156	0.00727	0.00115
VC-17 1.00-1.10m	MAR02252.013	Sediment	0.00148	0.00033	0.00125	0.00103	0.00041	0.00212	0.00049
VC-17 2.00-2.10m	MAR02252.014	Sediment	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	0.00019	<0.00008
VC-17 3.00-3.10m	MAR02252.015	Sediment	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008
VC-17 4.00-4.10m	MAR02252.016	Sediment	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008
VC-17 5.10-5.20m	MAR02252.017	Sediment	<0.00008	<0.00008	0.00008	0.00010	<0.00008	<0.00008	<0.00008
VC-19 0.00-0.10m	MAR02252.018	Sediment	0.00445	0.00104	0.00450	0.00380	0.00110	0.00428	0.00076
VC-19 1.00-1.10m	MAR02252.019	Sediment	0.00055	0.00019	0.00087	0.00038	0.00008	0.00044	<0.00008
Certified Reference Material Nist 1941b (% Recovery)			88	108	97	103	187	87	103~
QC Blank			<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008

~ Indicates result is for an In-house Reference Material as no Certified Reference Materials are available.

*See report notes

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Issuing Laboratory SOCOTEC, Marine Department, Advanced Chemistry and Research, Etwall House, Bretby Business Park, Ashby Road, Burton-upon-Trent DE15 0YZ

Test Report ID MAR02252
Issue Version 1
Customer Reference Falmouth Harbour - MMO Testing

		Units	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)
		Method No	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302
		Limit of Detection	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008
		Accreditation	UKAS/MMO	UKAS/MMO	UKAS/MMO	MMO*	UKAS/MMO	MMO*	UKAS/MMO
Client Reference:	SOCOTEC Ref:	Matrix	PCB 149	PCB 151	PCB 153	PCB 156	PCB 158	PCB 170	PCB 18
VC-14 2.00-2.10m	MAR02252.010	Sediment	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008
VC-14 3.00-3.10m	MAR02252.011	Sediment	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008
VC-17 0.00-0.10m	MAR02252.012	Sediment	0.00767	0.00220	0.01158	0.00079	0.00113	0.00269	0.00065
VC-17 1.00-1.10m	MAR02252.013	Sediment	0.00234	0.00092	0.00372	0.00015	0.00013	0.00107	0.00015
VC-17 2.00-2.10m	MAR02252.014	Sediment	0.00018	<0.00008	0.00016	<0.00008	<0.00008	<0.00008	<0.00008
VC-17 3.00-3.10m	MAR02252.015	Sediment	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008
VC-17 4.00-4.10m	MAR02252.016	Sediment	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008
VC-17 5.10-5.20m	MAR02252.017	Sediment	<0.00008	<0.00008	0.00009	<0.00008	<0.00008	<0.00008	0.00019
VC-19 0.00-0.10m	MAR02252.018	Sediment	0.00490	0.00141	0.00542	0.00052	0.00071	0.00150	0.00381
VC-19 1.00-1.10m	MAR02252.019	Sediment	0.00064	0.00019	0.00066	<0.00008	0.00010	0.00033	0.00188
Certified Reference Material Nist 1941b (% Recovery)			102	99~	96	173	98	123	88
QC Blank			<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008

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*See report notes

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Issuing Laboratory SOCOTEC, Marine Department, Advanced Chemistry and Research, Etwall House, Bretby Business Park, Ashby Road, Burton-upon-Trent DE15 0YZ

Test Report ID MAR02252
Issue Version 1
Customer Reference Falmouth Harbour - MMO Testing

		Units	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)
		Method No	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302
		Limit of Detection	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008
		Accreditation	UKAS/MMO	MMO*	UKAS/MMO	MMO*	UKAS/MMO	UKAS/MMO	UKAS/MMO
Client Reference:	SOCOTEC Ref:	Matrix	PCB 180	PCB 183	PCB 187	PCB 194	PCB 28	PCB 31	PCB 44
VC-14 2.00-2.10m	MAR02252.010	Sediment	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008
VC-14 3.00-3.10m	MAR02252.011	Sediment	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008
VC-17 0.00-0.10m	MAR02252.012	Sediment	0.00534	0.00157	0.00377	0.00153	0.00115	0.00112	0.00228
VC-17 1.00-1.10m	MAR02252.013	Sediment	0.00335	0.00094	0.00279	0.00168	0.00015	0.00017	0.00027
VC-17 2.00-2.10m	MAR02252.014	Sediment	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008
VC-17 3.00-3.10m	MAR02252.015	Sediment	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008
VC-17 4.00-4.10m	MAR02252.016	Sediment	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008
VC-17 5.10-5.20m	MAR02252.017	Sediment	<0.00008	<0.00008	<0.00008	<0.00008	0.00009	0.00012	<0.00008
VC-19 0.00-0.10m	MAR02252.018	Sediment	0.00327	0.00080	0.00230	0.00083	0.00446	0.00545	0.00598
VC-19 1.00-1.10m	MAR02252.019	Sediment	0.00090	0.00017	0.00035	0.00025	0.00226	0.00315	0.00285
Certified Reference Material Nist 1941b (% Recovery)			101	113	97	151	84	107	107
QC Blank			<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008

~ Indicates result is for an In-house Reference Material as no Certified Reference Materials are available.

*See report notes

Certificate of Analysis



Issuing Laboratory SOCOTEC, Marine Department, Advanced Chemistry and Research, Etwall House, Bretby Business Park, Ashby Road, Burton-upon-Trent DE15 0YZ

Test Report ID MAR02252
Issue Version 1
Customer Reference Falmouth Harbour - MMO Testing

		Units	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)
		Method No	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302
		Limit of Detection	0.00008	0.00008	0.00008	0.00008
		Accreditation	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO
Client Reference:	SOCOTEC Ref:	Matrix	PCB 47	PCB 49	PCB 52	PCB 66
VC-14 2.00-2.10m	MAR02252.010	Sediment	<0.00008	<0.00008	<0.00008	<0.00008
VC-14 3.00-3.10m	MAR02252.011	Sediment	<0.00008	<0.00008	<0.00008	<0.00008
VC-17 0.00-0.10m	MAR02252.012	Sediment	0.00084	0.00300	0.00399	0.00266
VC-17 1.00-1.10m	MAR02252.013	Sediment	0.00011	0.00038	0.00065	0.00032
VC-17 2.00-2.10m	MAR02252.014	Sediment	<0.00008	<0.00008	<0.00008	<0.00008
VC-17 3.00-3.10m	MAR02252.015	Sediment	<0.00008	<0.00008	<0.00008	<0.00008
VC-17 4.00-4.10m	MAR02252.016	Sediment	<0.00008	<0.00008	<0.00008	<0.00008
VC-17 5.10-5.20m	MAR02252.017	Sediment	<0.00008	<0.00008	0.00010	<0.00008
VC-19 0.00-0.10m	MAR02252.018	Sediment	0.00191	0.00558	0.00747	0.00431
VC-19 1.00-1.10m	MAR02252.019	Sediment	0.00080	0.00237	0.00332	0.00131
Certified Reference Material Nist 1941b (% Recovery)			100~	98	100	108
QC Blank			<0.00008	<0.00008	<0.00008	<0.00008

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Test Report ID MAR02252
Issue Version 1
Customer Reference Falmouth Harbour - MMO Testing

		Units	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)
		Method No	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302
		Limit of Detection	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008
		Accreditation	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO
Client Reference:	SOCOTEC Ref:	Matrix	PCB 101	PCB 105	PCB 110	PCB 118	PCB 128	PCB 138	PCB 141
VC-19 2.00-2.10m	MAR02252.020	Sediment	<0.00008	<0.00008	0.00009	<0.00008	<0.00008	<0.00008	<0.00008
VC-19 3.00-3.10m	MAR02252.021	Sediment	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008
VC-26 0.00-0.10m	MAR02252.022	Sediment	0.03053	0.00736	0.02391	0.02787	0.00723	0.04885	0.01576
VC-26 1.00-1.10m	MAR02252.023	Sediment	0.00016	<0.00008	0.00014	0.00011	<0.00008	0.00017	<0.00008
VC-26 2.00-2.10m	MAR02252.024	Sediment	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	0.00009	<0.00008
VC-26 3.00-3.10m	MAR02252.025	Sediment	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008
Certified Reference Material Nist 1941b (% Recovery)			99	118	103	100	171	114	100~
QC Blank			<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008

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Test Report ID MAR02252
Issue Version 1
Customer Reference Falmouth Harbour - MMO Testing

		Units	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)
		Method No	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302
		Limit of Detection	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008
		Accreditation	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO
Client Reference:	SOCOTEC Ref:	Matrix	PCB 149	PCB 151	PCB 153	PCB 156	PCB 158	PCB 170	PCB 18
VC-19 2.00-2.10m	MAR02252.020	Sediment	<0.00008	<0.00008	0.00009	<0.00008	<0.00008	<0.00008	0.00025
VC-19 3.00-3.10m	MAR02252.021	Sediment	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008
VC-26 0.00-0.10m	MAR02252.022	Sediment	0.07221	0.02679	0.09972	0.00509	0.00714	0.04149	0.00390
VC-26 1.00-1.10m	MAR02252.023	Sediment	0.00011	<0.00008	0.00013	<0.00008	<0.00008	<0.00008	0.00012
VC-26 2.00-2.10m	MAR02252.024	Sediment	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008
VC-26 3.00-3.10m	MAR02252.025	Sediment	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008
Certified Reference Material Nist 1941b (% Recovery)			99	111~	96	182	135	140	88
QC Blank			<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008

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Test Report ID MAR02252
Issue Version 1
Customer Reference Falmouth Harbour - MMO Testing

		Units	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)
		Method No	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302
		Limit of Detection	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008
		Accreditation	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO
Client Reference:	SOCOTEC Ref:	Matrix	PCB 180	PCB 183	PCB 187	PCB 194	PCB 28	PCB 31	PCB 44
VC-19 2.00-2.10m	MAR02252.020	Sediment	<0.00008	<0.00008	<0.00008	<0.00008	0.00025	0.00034	0.00026
VC-19 3.00-3.10m	MAR02252.021	Sediment	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008
VC-26 0.00-0.10m	MAR02252.022	Sediment	0.11332	0.02935	0.06331	0.03555	0.00547	0.00525	0.00861
VC-26 1.00-1.10m	MAR02252.023	Sediment	<0.00008	<0.00008	<0.00008	<0.00008	0.00011	0.00012	0.00014
VC-26 2.00-2.10m	MAR02252.024	Sediment	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008
VC-26 3.00-3.10m	MAR02252.025	Sediment	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008
Certified Reference Material Nist 1941b (% Recovery)			96	139	104	147	83	97	99
QC Blank			<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008

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Test Report ID MAR02252
Issue Version 1
Customer Reference Falmouth Harbour - MMO Testing

		Units	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)
		Method No	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302
		Limit of Detection	0.00008	0.00008	0.00008	0.00008
		Accreditation	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO
Client Reference:	SOCOTEC Ref:	Matrix	PCB 47	PCB 49	PCB 52	PCB 66
VC-19 2.00-2.10m	MAR02252.020	Sediment	0.00012	0.00023	0.00033	0.00012
VC-19 3.00-3.10m	MAR02252.021	Sediment	0.00021	<0.00008	<0.00008	<0.00008
VC-26 0.00-0.10m	MAR02252.022	Sediment	0.00338	0.01096	0.01353	0.01343
VC-26 1.00-1.10m	MAR02252.023	Sediment	<0.00008	0.00012	0.00016	0.00009
VC-26 2.00-2.10m	MAR02252.024	Sediment	<0.00008	<0.00008	<0.00008	<0.00008
VC-26 3.00-3.10m	MAR02252.025	Sediment	<0.00008	<0.00008	<0.00008	<0.00008
Certified Reference Material Nist 1941b (% Recovery)			100~	105	99	111
QC Blank			<0.00008	<0.00008	<0.00008	<0.00008

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Test Report ID MAR02252
Issue Version 1
Customer Reference Falmouth Harbour - MMO Testing

		Units	mg/Kg (Dry Weight)							
		Method No	ASC/SOP/302							
		Limit of Detection	0.0001							
		Accreditation	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO
Client Reference:	SOCOTEC Ref:	Matrix	AHCH	BHCH	GHCH	DIELDRIN	HCB	PPTDE	PPDDE	PPDDT
VC-12A 0.00-0.10m	MAR02252.001	Sediment	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
VC-12A 1.00-1.10m	MAR02252.002	Sediment	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.0030	0.0014	0.0012
VC-12A 2.00-2.10m	MAR02252.003	Sediment	<0.0001	<0.0001	<0.0001	<0.0001	0.0002	0.0002	0.0005	<0.0001
VC-12A 3.00-3.10	MAR02252.004	Sediment	<0.0001	<0.0001	<0.0001	0.0001	<0.0001	<0.0001	<0.0001	<0.0001
VC-12A 4.00-4.10m	MAR02252.005	Sediment	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.0003
VC-12A 5.00-5.10m	MAR02252.006	Sediment	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
VC-13A 0.00-0.80m	MAR02252.007	Sediment	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
VC-14 0.00-0.10m	MAR02252.008	Sediment	<0.0001	<0.0001	<0.0001	0.0014	0.0002	0.0051	0.0007	<0.0001
VC-14 1.00-1.10m	MAR02252.009	Sediment	<0.0001	<0.0001	<0.0001	0.0001	0.0001	0.0035	0.0013	0.0011
VC-14 2.00-2.10m	MAR02252.010	Sediment	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Certified Reference Material Nist 1941b (% Recovery)			94~	104~	98~	94~	104	62	78	70
QC Blank			<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001

~ Indicates result is for an In-house Reference Material as no Certified Reference Materials are available.

For full analyte name see method summaries.

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Test Report ID MAR02252
Issue Version 1
Customer Reference Falmouth Harbour - MMO Testing

		Units	mg/Kg (Dry Weight)							
		Method No	ASC/SOP/302							
		Limit of Detection	0.0001							
		Accreditation	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	MMO*
Client Reference:	SOCOTEC Ref:	Matrix	AHCH	BHCH	GHCH	DIELDRIN	HCB	PPTDE	PPDDE	PPDDT
VC-14 2.00-2.10m	MAR02252.010	Sediment	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
VC-14 3.00-3.10m	MAR02252.011	Sediment	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
VC-17 0.00-0.10m	MAR02252.012	Sediment	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.0064	0.0072	0.0012
VC-17 1.00-1.10m	MAR02252.013	Sediment	<0.0001	<0.0001	<0.0001	<0.0001	0.0005	0.0063	0.0103	0.0022
VC-17 2.00-2.10m	MAR02252.014	Sediment	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
VC-17 3.00-3.10m	MAR02252.015	Sediment	<0.0001	<0.0001	<0.0001	0.0001	<0.0001	<0.0001	<0.0001	<0.0001
VC-17 4.00-4.10m	MAR02252.016	Sediment	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
VC-17 5.10-5.20m	MAR02252.017	Sediment	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
VC-19 0.00-0.10m	MAR02252.018	Sediment	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.0017	0.0011	0.0012
VC-19 1.00-1.10m	MAR02252.019	Sediment	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Certified Reference Material Nist 1941b (% Recovery)			91~	71~	76~	101~	96	74	98	149
QC Blank			<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001

~ Indicates result is for an In-house Reference Material as no Certified Reference Materials are available.

For full analyte name see method summaries.

*See report notes

MAR02252

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Certificate of Analysis



Issuing Laboratory SOCOTEC, Marine Department, Advanced Chemistry and Research, Etwall House, Bretby Business Park, Ashby Road, Burton-upon-Trent DE15 0YZ

Test Report ID MAR02252
Issue Version 1
Customer Reference Falmouth Harbour - MMO Testing

		Units	mg/Kg (Dry Weight)							
		Method No	ASC/SOP/302							
		Limit of Detection	0.0001							
		Accreditation	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO
Client Reference:	SOCOTEC Ref:	Matrix	AHCH	BHCH	GHCH	DIELDRIN	HCB	PPTDE	PPDDE	PPDDT
VC-19 2.00-2.10m	MAR02252.020	Sediment	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
VC-19 3.00-3.10m	MAR02252.021	Sediment	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
VC-26 0.00-0.10m	MAR02252.022	Sediment	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.0113	0.0044	0.0036
VC-26 1.00-1.10m	MAR02252.023	Sediment	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
VC-26 2.00-2.10m	MAR02252.024	Sediment	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
VC-26 3.00-3.10m	MAR02252.025	Sediment	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Certified Reference Material Nist 1941b (% Recovery)			91~	100~	101~	102~	100	87	100	148
QC Blank			<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001

~ Indicates result is for an In-house Reference Material as no Certified Reference Materials are available.

For full analyte name see method summaries.

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Test Report ID MAR02252
Issue Version 1
Customer Reference Falmouth Harbour - MMO Testing

		Units	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)
		Method No	ASC/SOP/308	ASC/SOP/308	ASC/SOP/308	ASC/SOP/308	ASC/SOP/308	ASC/SOP/308	ASC/SOP/308	ASC/SOP/308
		Limit of Detection	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005
		Accreditation	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO
Client Reference:	SOCOTEC Ref:	Matrix	BDE17	BDE28	BDE47	BDE66	BDE85	BDE99	BDE100	BDE138
VC-12A 0.00-0.10m	MAR02252.001	Sediment	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025
VC-12A 1.00-1.10m	MAR02252.002	Sediment	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025
VC-12A 2.00-2.10m	MAR02252.003	Sediment	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025
VC-12A 3.00-3.10	MAR02252.004	Sediment	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025
VC-12A 4.00-4.10m	MAR02252.005	Sediment	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025
VC-12A 5.00-5.10m	MAR02252.006	Sediment	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025
VC-13A 0.00-0.80m	MAR02252.007	Sediment	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025
VC-14 0.00-0.10m	MAR02252.008	Sediment	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025
Certified Reference Material QBC069MS (% Recovery)			108~	112	119	100~	93~	108	135	96~
QC Blank			<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005

* See Report Notes

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Test Report ID MAR02252
Issue Version 1
Customer Reference Falmouth Harbour - MMO Testing

		Units	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)
		Method No	ASC/SOP/308	ASC/SOP/308	ASC/SOP/308	ASC/SOP/308
		Limit of Detection	0.00005	0.00005	0.00005	0.0001
		Accreditation	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO
Client Reference:	SOCOTEC Ref:	Matrix	BDE153	BDE154	BDE183	BDE209
VC-12A 0.00-0.10m	MAR02252.001	Sediment	<0.00025	<0.00025	<0.00025	0.0477
VC-12A 1.00-1.10m	MAR02252.002	Sediment	<0.00025	<0.00025	<0.00025	0.0036
VC-12A 2.00-2.10m	MAR02252.003	Sediment	<0.00025	<0.00025	<0.00025	0.0039
VC-12A 3.00-3.10	MAR02252.004	Sediment	<0.00025	<0.00025	<0.00025	0.0013
VC-12A 4.00-4.10m	MAR02252.005	Sediment	<0.00025	<0.00025	<0.00025	0.0008
VC-12A 5.00-5.10m	MAR02252.006	Sediment	<0.00025	<0.00025	<0.00025	<0.0005
VC-13A 0.00-0.80m	MAR02252.007	Sediment	<0.00025	<0.00025	<0.00025	0.0102
VC-14 0.00-0.10m	MAR02252.008	Sediment	<0.00025	<0.00025	<0.00025	0.0085
Certified Reference Material QBC069MS (% Recovery)			116	89~	99	96
QC Blank			<0.00005	<0.00005	<0.00005	<0.0001

* See Report Notes

MAR02252

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Test Report ID MAR02252
Issue Version 1
Customer Reference Falmouth Harbour - MMO Testing

		Units	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)
		Method No	ASC/SOP/308	ASC/SOP/308	ASC/SOP/308	ASC/SOP/308	ASC/SOP/308	ASC/SOP/308	ASC/SOP/308	ASC/SOP/308
		Limit of Detection	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005
		Accreditation	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO
Client Reference:	SOCOTEC Ref:	Matrix	BDE17	BDE28	BDE47	BDE66	BDE85	BDE99	BDE100	BDE138
VC-14 1.00-1.10m	MAR02252.009	Sediment	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025
VC-14 2.00-2.10m	MAR02252.010	Sediment	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025
VC-14 3.00-3.10m	MAR02252.011	Sediment	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025
VC-17 0.00-0.10m	MAR02252.012	Sediment	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025
VC-17 1.00-1.10m	MAR02252.013	Sediment	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025
VC-17 2.00-2.10m	MAR02252.014	Sediment	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025
VC-17 3.00-3.10m	MAR02252.015	Sediment	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025
VC-17 4.00-4.10m	MAR02252.016	Sediment	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025
VC-17 5.10-5.20m	MAR02252.017	Sediment	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025
Certified Reference Material QBC069MS (% Recovery)			108~	106	121	100~	93~	109	117	96~
QC Blank			<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005

* See Report Notes

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Test Report ID MAR02252
Issue Version 1
Customer Reference Falmouth Harbour - MMO Testing

		Units	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)
		Method No	ASC/SOP/308	ASC/SOP/308	ASC/SOP/308	ASC/SOP/308
		Limit of Detection	0.00005	0.00005	0.00005	0.0001
		Accreditation	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO
Client Reference:	SOCOTEC Ref:	Matrix	BDE153	BDE154	BDE183	BDE209
VC-14 1.00-1.10m	MAR02252.009	Sediment	<0.00025	<0.00025	<0.00025	0.0010
VC-14 2.00-2.10m	MAR02252.010	Sediment	<0.00025	<0.00025	<0.00025	0.0007
VC-14 3.00-3.10m	MAR02252.011	Sediment	<0.00025	<0.00025	<0.00025	0.0009
VC-17 0.00-0.10m	MAR02252.012	Sediment	<0.00025	<0.00025	<0.00025	0.0153
VC-17 1.00-1.10m	MAR02252.013	Sediment	<0.00025	<0.00025	<0.00025	0.0015
VC-17 2.00-2.10m	MAR02252.014	Sediment	<0.00025	<0.00025	<0.00025	0.0008
VC-17 3.00-3.10m	MAR02252.015	Sediment	<0.00025	<0.00025	<0.00025	0.0007
VC-17 4.00-4.10m	MAR02252.016	Sediment	<0.00025	<0.00025	<0.00025	0.0042
VC-17 5.10-5.20m	MAR02252.017	Sediment	<0.00025	<0.00025	<0.00025	0.0043
Certified Reference Material QBC069MS (% Recovery)			129	89~	100	85
QC Blank			<0.00005	<0.00005	<0.00005	<0.0001

* See Report Notes

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Test Report ID MAR02252
Issue Version 1
Customer Reference Falmouth Harbour - MMO Testing

		Units	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)
		Method No	ASC/SOP/308	ASC/SOP/308	ASC/SOP/308	ASC/SOP/308	ASC/SOP/308	ASC/SOP/308	ASC/SOP/308	ASC/SOP/308
		Limit of Detection	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005
		Accreditation	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO
Client Reference:	SOCOTEC Ref:	Matrix	BDE17	BDE28	BDE47	BDE66	BDE85	BDE99	BDE100	BDE138
VC-19 0.00-0.10m	MAR02252.018	Sediment	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025
VC-19 1.00-1.10m	MAR02252.019	Sediment	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025
VC-19 2.00-2.10m	MAR02252.020	Sediment	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025
VC-19 3.00-3.10m	MAR02252.021	Sediment	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025
VC-26 0.00-0.10m	MAR02252.022	Sediment	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025
VC-26 1.00-1.10m	MAR02252.023	Sediment	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025
VC-26 2.00-2.10m	MAR02252.024	Sediment	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025
VC-26 3.00-3.10m	MAR02252.025	Sediment	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025
Certified Reference Material QBC069MS (% Recovery)			113~	105	112	104~	106~	106	118	103~
QC Blank			<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005

* See Report Notes

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Test Report ID MAR02252
Issue Version 1
Customer Reference Falmouth Harbour - MMO Testing

		Units	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)
		Method No	ASC/SOP/308	ASC/SOP/308	ASC/SOP/308	ASC/SOP/308
		Limit of Detection	0.00005	0.00005	0.00005	0.0001
		Accreditation	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO
Client Reference:	SOCOTEC Ref:	Matrix	BDE153	BDE154	BDE183	BDE209
VC-19 0.00-0.10m	MAR02252.018	Sediment	<0.00025	<0.00025	<0.00025	0.0207
VC-19 1.00-1.10m	MAR02252.019	Sediment	<0.00025	<0.00025	<0.00025	0.0041
VC-19 2.00-2.10m	MAR02252.020	Sediment	<0.00025	<0.00025	<0.00025	0.0023
VC-19 3.00-3.10m	MAR02252.021	Sediment	<0.00025	<0.00025	<0.00025	0.0027
VC-26 0.00-0.10m	MAR02252.022	Sediment	<0.00025	<0.00025	<0.00025	0.0032
VC-26 1.00-1.10m	MAR02252.023	Sediment	<0.00025	<0.00025	<0.00025	0.0024
VC-26 2.00-2.10m	MAR02252.024	Sediment	<0.00025	<0.00025	<0.00025	0.0024
VC-26 3.00-3.10m	MAR02252.025	Sediment	<0.00025	<0.00025	<0.00025	0.0014
Certified Reference Material QBC069MS (% Recovery)			123	99~	98	86
QC Blank			<0.00005	<0.00005	<0.00005	<0.0001

* See Report Notes

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Test Report ID MAR02252
Issue Version 1
Customer Reference Falmouth Harbour - MMO Testing

REPORT NOTES

Method Code	Sample ID	The following information should be taken into consideration when using the data contained within this report
*SUB_01	MAR02252.001-025	Analysis was conducted by an approved subcontracted laboratory.
WSLM59*	MAR02252.001-025	Analysis was conducted by an internal SOCOTEC laboratory. UKAS accredited analysis by this laboratory is under UKAS number 1252.
ICPMSS*	MAR02252.001-025	Analysis was conducted by an internal SOCOTEC laboratory. UKAS accredited analysis by this laboratory is under UKAS number 1252.
ASC/SOP/301	MAR02252.002-006, .009-011, .013-017, 019-021, .023-025	The matrix of this sample has been found to interfere with the result for this test. The sample has therefore been diluted, but in doing so, the detection limit for this test has been elevated.
ASC/SOP/302	MAR02252.010-025	The Primary process control data associated with this Test has not wholly met the requirements of the Laboratory Quality Management System QMS with one or more target analytes falling outside acceptable limits. The remaining data gives the Laboratory confidence that the test has performed satisfactorily and that the validity of the data may not have been significantly affected. However in line with our QMS policy we have removed accreditation, where applicable, from the affected analytes (PCB128, 156, 170, 183, 194, DDT) . These circumstances should be taken into consideration when utilising the data.
ASC/SOP/303/304	MAR02252.003-006, .009-011, .015-017	The matrix of this sample has been found to interfere with the result for this test. The sample has therefore been diluted, but in doing so, the detection limit for this test has been elevated.
ASC/SOP/303/304	MAR02252.001-005	The Primary process control data associated with this Test has not wholly met the requirements of the Laboratory Quality Management System QMS with one or more target analytes falling outside acceptable limits. The remaining data gives the Laboratory confidence that the test has performed satisfactorily and that the validity of the data may not have been significantly affected. However in line with our QMS policy we have removed accreditation, where applicable, from the affected analytes (ACENAPTH, FLUORENE) . These circumstances should be taken into consideration when utilising the data.
ASC/SOP/303/304	MAR02252.006-025	The Primary process control data associated with this Test has not wholly met the requirements of the Laboratory Quality Management System QMS with one or more target analytes falling outside acceptable limits. The remaining data gives the Laboratory confidence that the test has performed satisfactorily and that the validity of the data may not have been significantly affected. However in line with our QMS policy we have removed accreditation, where applicable, from the affected analytes (ACENAPHY) . These circumstances should be taken into consideration when utilising the data.
ASC/SOP/303/304	MAR02252.001-025	Benzo[k]fluoranthene is known to coelute with Benzo[j]fluoranthene and these peaks can not be resolved. It is believed Benzo[j]fluoranthene is present in these samples therefore it is suggested that the Benzo[k]fluoranthene results should be taken as a Benzo[k]fluoranthene (inc. Benzo[j]fluoranthene). Benzo[j]fluoranthene is not UKAS accredited. This should be taken into consideration when utilising the data.
ASC/SOP/303/304	MAR02252.001-025	Chrysene is known to coelute with Triphenylene and these peaks can not be resolved in the PAHSED UKAS accredited method. Chrysene and Triphenylene are resolved for MMO but this is currently not UKAS accredited therefore Chrysene is reported without this accreditation.
ASC/SOP/308	MAR02252.001-025	The matrix of this sample has been found to interfere with the result for this test. The sample has therefore been diluted, but in doing so, the detection limit for this test has been elevated.

DEVIATING SAMPLE STATEMENT

Deviation Code	Deviation Definition	Sample ID	Deviation Details. The following information should be taken into consideration when using the data contained within this report
D1	Holding Time Exceeded	N/A	N/A
D2	Sample Contaminated through Damaged Packaging	N/A	N/A
D3	Sample Contaminated through Sampling	N/A	N/A
D4	Inappropriate Container/Packaging	N/A	N/A
D5	Damaged in Transit	N/A	N/A
D6	Insufficient Quantity of Sample	N/A	N/A
D7	Inappropriate Headspace	N/A	N/A
D8	Retained at Incorrect Temperature	N/A	N/A
D9	Lack of Date & Time of Sampling	N/A	N/A
D10	Insufficient Sample Details	N/A	N/A
D11	Sample integrity compromised or not suitable for analysis	N/A	N/A

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Test Report ID MAR02252
Issue Version 1
Customer Reference Falmouth Harbour - MMO Testing

Method	Sample and Fraction Size	Method Summary
Particle Size Analysis	Wet Sediment	Wet and dry sieving followed by laser diffraction analysis.
Total Organic Carbon (TOC)	Air dried	Carbonate removal and sulphurous acid/combustion at 1600°C/NDIR.
Metals	Air dried	Aqua-regia extraction followed by ICP analysis.
Organotins	Wet Sediment	Solvent extraction and derivatisation followed by GC-MS analysis.
Polyaromatic Hydrocarbons (PAH)	Wet Sediment	Solvent extraction and clean up followed by GC-MS analysis.
Total Hydrocarbon Content (THC)	Wet Sediment	Ultra-violet fluorescence spectroscopy
Polychlorinated Biphenyls (PCBs)	Air dried and sieved to <2mm	Solvent extraction and clean up followed by GC-MS-MS analysis.
Organochlorine Pesticides (OCPs)	Air dried and sieved to <2mm	Solvent extraction and clean up followed by GC-MS-MS analysis.
Brominated Flame Retardants (PBDEs)	Air dried and sieved to <2mm	Solvent extraction and clean up followed by GC-MS-MS analysis.

Analyte Definitions					
Analyte Abbreviation	Full Analyte name	Analyte Abbreviation	Full Analyte name	Analyte Abbreviation	Full Analyte name
ACENAPTH	Acenaphthene	C2N	C2-naphthalenes	THC	Total Hydrocarbon Content
ACENAPHY	Acenaphthylene	C3N	C3-naphthalenes	AHCH	alpha-Hexachlorocyclohexane
ANTHRACN	Anthracene	CHRYSENE	Chrysene	BHCH	beta-Hexachlorocyclohexane
BAA	Benzo[a]anthracene	DBENZAH	Dibenzo[ah]anthracene	GHCH	gamma-Hexachlorocyclohexane
BAP	Benzo[a]pyrene	FLUORANT	Fluoranthene	DIELDRIN	Dieldrin
BBF	Benzo[b]fluoranthene	FLUORENE	Fluorene	HCB	Hexachlorobenzene
BEP	Benzo[e]pyrene	INDPYR	Indeno[1,2,3-cd]pyrene	PPDDE	p,p'-Dichlorodiphenyldichloroethylene
BENZGHIP	Benzo[ghi]perylene	NAPTH	Naphthalene	PPDDT	p,p'-Dichlorodiphenyltrichloroethane
BKF	Benzo[k]fluoranthene	PERYLENE	Perylene	PPTDE	p,p'-Dichlorodiphenyldichloroethane
C1N	C1-naphthalenes	PHENANT	Phenanthrene		
C1PHEN	C1-phenanthrene	PYRENE	Pyrene		

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