SOCOTEC
Environmental Chemistry

Certificate of Analysis

Client: Smallbrook Environmental

Project: 25093884

Quote: BEC250741604 V1.1

Project Ref: Scheduled Samples 10-2025

Site: PODE HOLE QUARRY THORNY

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No. Samples Received: 3

Date Received: 25/09/2025

Analysis Completed: 07/10/2025

Date Issued: 07/10/2025

Report Type: Version 01

This report supersedes any versions previously issued by the laboratory

Reported by Account Manager
Lucy Bailey

Lucy.Bailey@socotec.co.uk

Project Number: 25093884

Client: Smallbrook Environmental
Date Issued: 07/10/2025
Project Name: Scheduled Samples 10-2025 - PODE HOLE QUARRY THORNY

Samples Analysed

Text ID	Sample Reference	Sampling Date	Sample Type	Sample Description
25093884-001	BH3	24/09/2025 00:00:00	WATER	Ground Water
25093884-002	BH5	24/09/2025 00:00:00	WATER	Ground Water
25093884-003	BH6	24/09/2025 00:00:00	WATER	Ground Water

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UKAS TESTING 1252

Analysis Results

Method Code	Analysis	MDL	Accred.	SOCOTEC Sample ID: 25093884-001 / Sampling Date: 24/09/2025 00:00 / Customer ID: BH3	25093884-002 / 24/09/2025 00:00 / BH5	25093884-003 / 24/09/2025 00:00 / BH6
PHCONDW	pH	1 pH units	U	7.2	7.3	7.2
PHCONDW	Conductivity at 25°C	100 µS/cm	U	1020	1020	1210
WSLM12	Total Alkalinity	2 mg/l	U	349	229	214
TOCW	Total Organic Carbon	0.4 mg/l	U	7.46	6.24	6.38
KONENS	Total Oxidised Nitrogen	0.2 mg/l	U	<0.2	<0.2	<0.2
KONENS	Ammoniacal Nitrogen as N	0.01 mg/l	U	0.03	0.04	0.03
KONENS	Chloride as Cl	1 mg/l	U	9	57	76
SFAPI	Total Cyanide	0.02 mg/l	U	<0.02	<0.02	<0.02
ICPMSW (Dissolved)	Arsenic as As	0.001 mg/l	U	<0.001	<0.001	<0.001
ICPMSW (Dissolved)	Cadmium as Cd	0.00002 mg/l	U	<0.00002	<0.00002	<0.00002
ICPWATVAR (Dissolved)	Calcium as Ca	1 mg/l	U	237	206	252
KONENS	Chromium (VI) as Cr	0.003 mg/l	U	<0.003	0.051	<0.003
ICPMSW (Dissolved)	Copper as Cu	0.001 mg/l	U	0.001	<0.001	<0.001
ICPWATVAR (Dissolved)	Iron as Fe	0.01 mg/l	U	<0.01	0.09	0.01
ICPMSW (Dissolved)	Lead as Pb	0.0002 mg/l	U	<0.0002	<0.0002	<0.0002
ICPWATVAR (Dissolved)	Magnesium as Mg	1 mg/l	U	1	6	10
ICPMSW (Dissolved)	Manganese as Mn	0.002 mg/l	U	0.025	0.035	0.093
ICPMSW (Dissolved)	Mercury as Hg	0.00003 mg/l	U	<0.00003	<0.00003	<0.00003
ICPMSW (Dissolved)	Nickel as Ni	0.001 mg/l	U	<0.001	<0.001	0.001
ICPWATVAR (Dissolved)	Potassium as K	1 mg/l	U	11	3	5
ICPMSW (Dissolved)	Selenium as Se	0.001 mg/l	U	<0.001	<0.001	<0.001
ICPWATVAR (Dissolved)	Sodium as Na	1 mg/l	U	22	37	39
ICPWATVAR (Dissolved)	Total Sulphur as SO4	3 mg/l	U	232	268	378
ICPMSW (Dissolved)	Zinc as Zn	0.002 mg/l	U	0.016	0.010	0.011

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Deviating Sample Report

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

Analysis Method

Method Code	Method Description	Analysis Method
ICPMSW (Dissolved)	Arsenic (Diss.) in Water by ICPMS	Filtered
ICPMSW (Dissolved)	Cadmium (Diss.) in Water by ICPMS	Filtered
ICPMSW (Dissolved)	Copper (Diss.) in Water by ICPMS	Filtered
ICPMSW (Dissolved)	Lead (Diss.) in Water by ICPMS	Filtered
ICPMSW (Dissolved)	Manganese (Diss.) in Water by ICPMS	Filtered
ICPMSW (Dissolved)	Mercury (Diss.) in Water by ICPMS	Filtered
ICPMSW (Dissolved)	Nickel (Diss.) in Water by ICPMS	Filtered
ICPMSW (Dissolved)	Selenium (Diss.) in Water by ICPMS	Filtered
ICPMSW (Dissolved)	Zinc (Diss.) in Water by ICPMS	Filtered
ICPWATVAR (Dissolved)	Calcium (Diss.) in Water by ICPOES	Filtered
ICPWATVAR (Dissolved)	Iron (Diss.) in Water by ICPOES	Filtered
ICPWATVAR (Dissolved)	Magnesium (Diss.) in Water by ICPOES	Filtered
ICPWATVAR (Dissolved)	Potassium (Diss.) in Water by ICPOES	Filtered
ICPWATVAR (Dissolved)	Sodium (Diss.) in Water by ICPOES	Filtered
ICPWATVAR (Dissolved)	Total Sulphur as SO4 (Diss.) in Water	Filtered
KONENS	Ammoniacal Nitrogen as N	Filtered
KONENS	Chloride by Colorimetry	Filtered
KONENS	Chromium VI (Hexavalent) by Colorimetry	Filtered
KONENS	TON: Total Oxidised Nitrogen	Filtered
PHCONDW	Electrical Conductivity @ 25°C	Unfiltered
PHCONDW	pH	Unfiltered
SFAPI	Cyanide (Total) by SFA	Unfiltered
TOCW	TOC: Total Organic Carbon	Unfiltered
WSLM12	Total Alkalinity as CaCO3	Unfiltered

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

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.

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. Further information is available upon request.

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