

Certificate of Analysis

Client: Smallbrook Environmental

Project: 26022920

Quote: BEC250741604 V2.1

Project Ref: Scheduled Samples 02-2026

Site: Pode Hole Quarry Thorney

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No. Samples Received: 4

Date Received: 19/02/2026

Analysis Completed: 11/03/2026

Date Issued: 11/03/2026

Report Type: Version 01

This report supersedes any versions previously issued by the laboratory



Reported by Customer Service Co-Ordinator
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Project Name: Scheduled Samples 02-2026 - Pode Hole Quarry Thorney

Samples Analysed

<u>Text ID</u>	<u>Sample Reference</u>	<u>Sampling Date</u>	<u>Sample Type</u>	<u>Sample Description</u>
26022920-001	BH3	16/02/2026 00:00:00	WATER	Ground Water
26022920-002	BH4	16/02/2026 00:00:00	WATER	Ground Water
26022920-003	BH5	16/02/2026 00:00:00	WATER	Ground Water
26022920-004	BH6	16/02/2026 00:00:00	WATER	Ground Water



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Analysis Results

SOCOTEC Sample ID:	26022920-001	26022920-002	26022920-003	26022920-004
Sampling Date:	16/02/2026 00:00	16/02/2026 00:00	16/02/2026 00:00	16/02/2026 00:00
Customer ID:	BH3	BH4	BH5	BH6
Accred.				

Method Code	Analysis	MDL	Accred.	26022920-001	26022920-002	26022920-003	26022920-004
PHCONDW	pH	1 pH units	U	7.0	6.7	7.5	7.5
PHCONDW	Conductivity at 25°C	100 µS/cm	U	1040	1510	1110	1080
WSLM12	Total Alkalinity	2 mg/l	U	389	665	208	169
TOCW	Total Organic Carbon	0.4 mg/l	U	7.08	5.82	4.92	4.67
KONENS	Total Oxidised Nitrogen	0.2 mg/l	U	16.2	1.6	3.0	4.5
KONENS	Ammoniacal Nitrogen as N	0.01 mg/l	U	<0.01	0.05	<0.01	<0.01
KONENS	Chloride as Cl	1 mg/l	U	15	22	91	49
SFAPI	Total Cyanide	0.02 mg/l	U	0.02	<0.02	<0.02	<0.02
ICPMSW (Dissolved)	Arsenic as As	0.001 mg/l	U	<0.001	<0.001	<0.001	<0.001
ICPMSW (Dissolved)	Cadmium as Cd	0.0002 mg/l	U	0.00003	0.00038	<0.00002	0.00003
ICPWATVAR (Dissolved)	Calcium as Ca	1 mg/l	U	246	377	195	213
KONENS	Chromium (VI) as Cr	0.003 mg/l	U	<0.003	<0.003	<0.003	<0.003
ICPMSW (Dissolved)	Copper as Cu	0.001 mg/l	U	0.002	0.002	0.001	<0.001
ICPWATVAR (Dissolved)	Iron as Fe	0.01 mg/l	U	0.05	<0.01	<0.01	<0.01
ICPMSW (Dissolved)	Lead as Pb	0.0002 mg/l	U	<0.0002	<0.0002	<0.0002	<0.0002
ICPWATVAR (Dissolved)	Magnesium as Mg	1 mg/l	U	3	5	5	8
ICPMSW (Dissolved)	Manganese as Mn	0.002 mg/l	U	0.003	0.611	0.002	<0.002
ICPMSW (Dissolved)	Mercury as Hg	0.00003 mg/l	U	<0.00003	<0.00003	<0.00003	<0.00003
ICPMSW (Dissolved)	Nickel as Ni	0.001 mg/l	U	<0.001	0.005	<0.001	<0.001
ICPWATVAR (Dissolved)	Potassium as K	1 mg/l	U	15	3	5	4
ICPMSW (Dissolved)	Selenium as Se	0.001 mg/l	U	0.002	<0.001	0.001	0.001
ICPWATVAR (Dissolved)	Sodium as Na	1 mg/l	U	21	35	59	35
ICPWATVAR (Dissolved)	Total Sulphur as SO4	3 mg/l	U	291	211	255	350
ICPMSW (Dissolved)	Zinc as Zn	0.002 mg/l	U	<0.002	0.048	0.005	0.003
BTEXHSA	Benzene (HS_1D_AR)	5 µg/l	U	<5	<5	<5	<5
	Toluene (HS_1D_AR)	5 µg/l	U	<5	<5	<5	<5
	Ethylbenzene (HS_1D_AR)	5 µg/l	U	<5	<5	<5	<5
	m/p-Xylene (HS_1D_AR)	10 µg/l	U	<10	<10	<10	<10
	o-Xylene (HS_1D_AR)	5 µg/l	U	<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
	C5-C6 Aliphatic (HS_1D_AL)	0.1 mg/l	N	<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
	>C7-C8 Aliphatic (HS_1D_AL)	0.1 mg/l	N	<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
	C5-C7 Aromatic (HS_1D_AR)	0.005 mg/l	U	<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
	>C8-C10 Aromatic (HS_1D_AR)	0.02 mg/l	U	<0.020	<0.020	<0.020	<0.020
TPHFID (Aliphatic)	Total TPH >C8-C40 (Aliphatic) (EH_CU_1D_AL)	0.01 mg/l	U	0.02	0.19	0.02	0.02
	>C10-C12 (Aliphatic) (EH_CU_1D_AL)	0.01 mg/l	U	<0.01	<0.01	<0.01	<0.01
	>C12-C16 (Aliphatic) (EH_CU_1D_AL)	0.01 mg/l	U	<0.01	<0.01	<0.01	<0.01
	>C16-C21 (Aliphatic) (EH_CU_1D_AL)	0.01 mg/l	U	<0.01	<0.01	<0.01	<0.01
	>C21-C35 (Aliphatic) (EH_CU_1D_AL)	0.01 mg/l	U	0.01	0.16	0.01	0.02
TPHFID (Aromatic)	Total TPH >C8-C40 (Aromatic) (EH_CU_1D_AR)	0.01 mg/l	U	<0.01	<0.01	0.02	0.02
	>C10-C12 (Aromatic) (EH_CU_1D_AR)	0.01 mg/l	U	<0.01	<0.01	<0.01	<0.01
	>C12-C16 (Aromatic) (EH_CU_1D_AR)	0.01 mg/l	U	<0.01	<0.01	<0.01	<0.01
	>C16-C21 (Aromatic) (EH_CU_1D_AR)	0.01 mg/l	U	<0.01	<0.01	<0.01	<0.01
	>C21-C35 (Aromatic) (EH_CU_1D_AR)	0.01 mg/l	U	<0.01	<0.01	<0.01	<0.01
PAHMSW	Acenaphthene	0.01 µg/l	U	<0.01	<0.01	<0.01	<0.01
	Acenaphthylene	0.01 µg/l	U	<0.01	<0.01	<0.01	<0.01
	Anthracene	0.01 µg/l	U	<0.01	<0.01	<0.01	<0.01
	Benzo[a]anthracene	0.01 µg/l	U	<0.01	0.01	<0.01	0.01
	Benzo[a]pyrene	0.01 µg/l	U	<0.01	<0.01	<0.01	<0.01
	Benzo[b]fluoranthene	0.01 µg/l	U	<0.01	<0.01	<0.01	<0.01
	Benzo[g,h,i]perylene	0.01 µg/l	U	<0.01	<0.01	<0.01	<0.01
	Benzo[k]fluoranthene	0.01 µg/l	U	<0.01	<0.01	<0.01	<0.01
	Chrysene	0.01 µg/l	U	<0.01	<0.01	<0.01	<0.01
	Dibenzo[a,h]anthracene	0.01 µg/l	U	<0.01	<0.01	<0.01	<0.01
	Fluoranthene	0.01 µg/l	U	<0.01	0.01	<0.01	<0.01
	Fluorene	0.01 µg/l	U	<0.01	<0.01	<0.01	<0.01
	Indeno[1,2,3-cd]pyrene	0.01 µg/l	U	<0.01	<0.01	<0.01	<0.01
	Naphthalene	0.01 µg/l	U	<0.01	<0.01	<0.01	<0.01
	Phenanthrene	0.01 µg/l	U	<0.01	<0.01	<0.01	<0.01
	Pyrene	0.01 µg/l	U	<0.01	0.02	<0.01	0.01
Total PAH 16	0.16 µg/l	U	<0.16	0.17	<0.16	0.16	



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Deviating Sample Report

Sample Reference	Text ID	Method Code	Inadequate Transit Cooling	Incorrect Container	Incorrect Label	Headspace	Incorrect/No Preservative	No Sampling Date	Holding Time
BH3	26022920-001	PHCONDW							✓
BH3	26022920-001	TPHFID (Aliphatic)							✓
BH3	26022920-001	TPHFID (Aromatic)							✓
BH3	26022920-001	WSLM12							✓
BH4	26022920-002	PHCONDW							✓
BH4	26022920-002	TPHFID (Aliphatic)							✓
BH4	26022920-002	TPHFID (Aromatic)							✓
BH4	26022920-002	WSLM12							✓
BH5	26022920-003	PHCONDW							✓
BH5	26022920-003	TPHFID (Aliphatic)							✓
BH5	26022920-003	TPHFID (Aromatic)							✓
BH5	26022920-003	WSLM12							✓
BH6	26022920-004	PHCONDW							✓
BH6	26022920-004	TPHFID (Aliphatic)							✓
BH6	26022920-004	TPHFID (Aromatic)							✓
BH6	26022920-004	WSLM12							✓

Analysis Method

Method Code

BTEXHSA
 GROHSA/BTEXHSA
 ICPMSW (Dissolved)
 ICPMSW (Dissolved)
 ICPMSW (Dissolved)
 ICPMSW (Dissolved)
 ICPMSW (Dissolved)
 ICPMSW (Dissolved)
 ICPMSW (Dissolved)
 ICPMSW (Dissolved)
 ICPMSW (Dissolved)
 ICPMSW (Dissolved)
 ICPMSW (Dissolved)
 ICPMSW (Dissolved)
 ICPMSW (Dissolved)
 ICPWATVAR (Dissolved)
 ICPWATVAR (Dissolved)
 ICPWATVAR (Dissolved)
 ICPWATVAR (Dissolved)
 ICPWATVAR (Dissolved)
 ICPWATVAR (Dissolved)
 KONENS
 KONENS
 KONENS
 KONENS
 PAHMSW
 PHCONDW

Method Description

BTEX by GCFID
 GRO CWG (C5-C10) Ali/Aro Split
 Arsenic (Diss.) in Water by ICPMS
 Cadmium (Diss.) in Water by ICPMS
 Copper (Diss.) in Water by ICPMS
 Lead (Diss.) in Water by ICPMS
 Manganese (Diss.) in Water by ICPMS
 Mercury (Diss.) in Water by ICPMS
 Nickel (Diss.) in Water by ICPMS
 Selenium (Diss.) in Water by ICPMS
 Zinc (Diss.) in Water by ICPMS
 Calcium (Diss.) in Water by ICPOES
 Iron (Diss.) in Water by ICPOES
 Magnesium (Diss.) in Water by ICPOES
 Potassium (Diss.) in Water by ICPOES
 Sodium (Diss.) in Water by ICPOES
 Total Sulphur as SO4 (Diss.) in Water
 Ammoniacal Nitrogen as N
 Chloride by Colorimetry
 Chromium VI (Hexavalent) by Colorimetry
 TON: Total Oxidised Nitrogen
 16 PAHs by GCMS
 Electrical Conductivity @ 25°C

Analysis Method

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



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PHCONDW	pH	Unfiltered
SFAPI	Cyanide (Total) by SFA	Unfiltered
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
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:

<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



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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. 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