

Our Ref: EXR/254257 (Ver. 1)

Your Ref:

February 27, 2018



Environmental Chemistry

SOCOTEC UK Limited

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A Morris  
White Rock Geo Environmental Ltd  
EnviroArm Limited  
597 Walsall Road  
Great Wyrley  
Walsall  
Staffordshire  
WS6 6AE

For the attention of A Morris

Dear A Morris

**Sample Analysis - Parrys Quarry**

Samples from the above site have been analysed in accordance with the schedule supplied.

The sample details and the results of analyses for these samples are given in the appended report.

An invoice for this work will follow under a separate cover.

Please be aware that our policy for the retention of paper based laboratory records and analysis reports is 6 years.

The work was carried out in accordance with SOCOTEC UK Limited (Multi-Sector Services) Standard Terms and Conditions of Contract.

If I can be of any further assistance please do not hesitate to contact me.

Yours sincerely

for SOCOTEC UK Limited

A handwritten signature in dark ink, appearing to read 'J Chislett'.

J Chislett

Project Co-ordinator

01283 554458

# TEST REPORT

Report No. EXR/254257 (Ver. 1)

White Rock Geo Environmental Ltd  
EnviroArm Limited  
597 Walsall Road  
Great Wyrley  
Walsall  
Staffordshire  
WS6 6AE

**Site: Parrys Quarry**

The 14 samples described in this report were registered for analysis by SOCOTEC UK Limited on 16-Feb-2018. This report supersedes any versions previously issued by the laboratory.

The analysis was completed by: 27-Feb-2018

The following tables are contained in this report:

Table 1 Main Analysis Results (Page 2)  
Analytical and Deviating Sample Overview (Page 3)  
Table of Method Descriptions (Page 4)  
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On behalf of  
SOCOTEC UK Lim   
Tim Barnes  
Operations Director  
Energy & Waste Services

Date of Issue: 27-Feb-2018

Tests marked '^' have been subcontracted to another laboratory.

Where samples have been flagged as deviant on the Analytical and Deviating Sample Overview, for any reason, the data may not be representative of the sample at the point of sampling and the validity of the data may be affected.

SOCOTEC UK Limited accepts no responsibility for any sampling not carried out by our personnel.



Sample Analysis

SOCOTEC UK Ltd Environmental Chemistry  
Analytical and Deviating Sample Overview

W254257

Customer White Rock Geo Environmental Ltd  
Site Parrys Quarry  
Report No W254257

Consignment No W133007  
Date Logged 16-Feb-2018  
In-House Report Due 27-Feb-2018

Please note the results for any subcontracted analysis (identified with a '^') is likely to take up to an additional five working days.

| ID Number  | Description | MethodID     |          | CUST SERV | IGMAYVAR | Total Sulphur as SO4 (Diss) VAR | Calcium as Ca (Dissolved) VAR | Magnesium as Mg (Dissolved) VAR | Sodium as Na (Dissolved) VAR | Potassium as K (Dissolved) VAR | Manganese as Mn (Dissolved) VAR | Iron as Fe (Dissolved) VAR | Chloride as Cl (Kone) | Ammoniacal Nitrogen (Kone) | WSLM12<br>Total Alkalinity as CaCO3 | WSLM13<br>Total Organic Carbon | WSLM2<br>Conductivity uS/cm @ 25C | WSLM20<br>Biochemical Oxygen Demand | WSLM3<br>pH units |
|------------|-------------|--------------|----------|-----------|----------|---------------------------------|-------------------------------|---------------------------------|------------------------------|--------------------------------|---------------------------------|----------------------------|-----------------------|----------------------------|-------------------------------------|--------------------------------|-----------------------------------|-------------------------------------|-------------------|
|            |             | Matrix Type  | Sampled  |           |          | Report A                        |                               |                                 |                              |                                |                                 |                            |                       |                            |                                     |                                |                                   |                                     |                   |
|            |             |              |          |           |          | ✓                               | ✓                             | ✓                               | ✓                            | ✓                              | ✓                               | ✓                          | ✓                     | ✓                          | ✓                                   | ✓                              | ✓                                 | ✓                                   | ✓                 |
| EX/1851229 | BH A        | Unclassified | 15/02/18 |           |          | E                               | E                             | E                               | E                            | E                              | E                               | E                          | E                     | E                          | E                                   | E                              | E                                 | E                                   | E                 |
| EX/1851230 | BH B        | Unclassified | 15/02/18 |           |          | E                               | E                             | E                               | E                            | E                              | E                               | E                          | E                     | E                          | E                                   | E                              | E                                 | E                                   | E                 |
| EX/1851231 | BH C        | Unclassified | 15/02/18 |           |          | E                               | E                             | E                               | E                            | E                              | E                               | E                          | E                     | E                          | E                                   | E                              | E                                 | E                                   | E                 |
| EX/1851232 | BH C1       | Unclassified | 15/02/18 |           |          | E                               | E                             | E                               | E                            | E                              | E                               | E                          | E                     | E                          | E                                   | E                              | E                                 | E                                   | E                 |
| EX/1851233 | BH D        | Unclassified | 15/02/18 |           |          | E                               | E                             | E                               | E                            | E                              | E                               | E                          | E                     | E                          | E                                   | E                              | E                                 | E                                   | E                 |
| EX/1851234 | BH E        | Unclassified | 15/02/18 |           |          | E                               | E                             | E                               | E                            | E                              | E                               | E                          | E                     | E                          | E                                   | E                              | E                                 | E                                   | E                 |
| EX/1831235 | BH F        | Unclassified | 15/02/18 |           |          | E                               | E                             | E                               | E                            | E                              | E                               | E                          | E                     | E                          | E                                   | E                              | E                                 | E                                   | E                 |
| EX/1851236 | BH F1       | Unclassified | 15/02/18 |           |          | E                               | E                             | E                               | E                            | E                              | E                               | E                          | E                     | E                          | E                                   | E                              | E                                 | E                                   | E                 |
| EX/1851237 | BH G        | Unclassified | 15/02/18 |           |          | E                               | E                             | E                               | E                            | E                              | E                               | E                          | E                     | E                          | E                                   | E                              | E                                 | E                                   | E                 |
| EX/1851238 | BH H        | Unclassified | 15/02/18 |           |          | E                               | E                             | E                               | E                            | E                              | E                               | E                          | E                     | E                          | E                                   | E                              | E                                 | E                                   | E                 |
| EX/1851239 | BH I        | Unclassified | 15/02/18 |           |          | E                               | E                             | E                               | E                            | E                              | E                               | E                          | E                     | E                          | E                                   | E                              | E                                 | E                                   | E                 |
| EX/1851240 | BH J        | Unclassified | 15/02/18 |           |          | E                               | E                             | E                               | E                            | E                              | E                               | E                          | E                     | E                          | E                                   | E                              | E                                 | E                                   | E                 |
| EX/1851241 | BH K        | Unclassified | 15/02/18 |           |          | E                               | E                             | E                               | E                            | E                              | E                               | E                          | E                     | E                          | E                                   | E                              | E                                 | E                                   | E                 |
| EX/1851242 | BH K1       | Unclassified | 15/02/18 |           |          | E                               | E                             | E                               | E                            | E                              | E                               | E                          | E                     | E                          | E                                   | E                              | E                                 | E                                   | E                 |

**Note: We will endeavour to prioritise samples to complete analysis within holding time; however any delay could result in samples becoming deviant whilst being processed in the laboratory.**

**If sampling dates are missing or matrices unclassified then results will not be ISO 17025 accredited. Please contact us as soon as possible to provide missing information in order to reinstate accreditation.**

**Deviating Sample Key**

- A The sample was received in an inappropriate container for this analysis
- B The sample was received without the correct preservation for this analysis
- C Headspace present in the sample container
- D The sampling date was not supplied so holding time may be compromised - applicable to all analysis
- E Sample processing did not commence within the appropriate holding time
- F Sample processing did not commence within the appropriate handling time

**Requested Analysis Key**

- Analysis Required
- Analysis dependant upon trigger result - **Note: due date may be affected if triggered**
- No analysis scheduled
- <sup>^</sup> Analysis Subcontracted - **Note: due date may vary**

The integrity of data for samples/analysis that have been categorised as Deviating may be compromised. Data may not be representative of the sample at the time of sampling. Where individual results are flagged see report notes for status.

# Method Descriptions

| Matrix | MethodID  | Analysis Basis | Method Description   |
|--------|-----------|----------------|--|
| Water  | ICPWATVAR | As Received    | Direct determination of Metals and Sulphate in water samples using ICPOES                                  |
| Water  | KONENS    | As Received    | Direct analysis using discrete colorimetric analysis   |
| Water  | WSLM12    | As Received    | Titration with Sulphuric Acid to required pH   |
| Water  | WSLM13    | As Received    | Instrumental analysis using acid/persulphate digestion and non-dispersive IR detection                     |
| Water  | WSLM2     | As Received    | Determination of the Electrical Conductivity ( $\mu\text{S}/\text{cm}$ ) by electrical conductivity probe. |
| Water  | WSLM20    | As Received    | Determination of Biological Oxygen Demand using 5 day incubation and dissolved oxygen probe                |
| Water  | WSLM3     | As Received    | Determination of the pH of water samples by pH probe   |

# Report Notes

## Generic Notes

### Soil/Solid Analysis

Unless stated otherwise,

- Results expressed as mg/kg have been calculated on the basis indicated in the Method Description table.  
All results on MCERTS reports are reported on a 105°C dry weight basis with the exception of pH and conductivity.
- Sulphate analysis not conducted in accordance with BS1377
- Water Soluble Sulphate is on a 2:1 water:soil extract

### Waters Analysis

Unless stated otherwise results are expressed as mg/l

**Nil:** Where "Nil" has been entered against Total Alkalinity or Total Acidity this indicates that a measurement was not required due to the inherent pH of the sample.

### Oil analysis specific

Unless stated otherwise,

- Results are expressed as mg/kg
- SG is expressed as g/cm<sup>3</sup>@ 15°C

### Gas (Tedlar bag) Analysis

Unless stated otherwise, results are expressed as ug/l

### Asbestos Analysis

**CH** Denotes Chrysotile

**TR** Denotes Tremolite

**CR** Denotes Crocidolite

**AC** Denotes Actinolite

**AM** Denotes Amosite

**AN** Denotes Anthophyllite

**NAIIS** No Asbestos Identified in Sample

**NADIS** No Asbestos Detected In Sample

## Symbol Reference

**^** Sub-contracted analysis.

**\$\$** Unable to analyse due to the nature of the sample

**¶** Samples submitted for this analyte were not preserved on site in accordance with laboratory protocols.

This may have resulted in deterioration of the sample(s) during transit to the laboratory.

Consequently the reported data may not represent the concentration of the target analyte present in the sample at the time of sampling

**¥** Results for guidance only due to possible interference

**&** Blank corrected result

**I.S** Insufficient sample to complete requested analysis

**I.S(g)** Insufficient sample to re-analyse, results for guidance only

**Intf** Unable to analyse due to interferences

**N.D** Not determined

**N.Det** Not detected

**N.F** No Flow

**NS** Information Not Supplied

**Req** Analysis requested, see attached sheets for results

**▯** Raised detection limit due to nature of the sample

\* All accreditation has been removed by the laboratory for this result

‡ MCERTS accreditation has been removed for this result

§ accreditation has been removed for this result as it is a non-accredited matrix

**Note:** The Laboratory may only claim that data is accredited when all of the requirements of our Quality System have been met. Where these requirements have not been met the laboratory may elect to include the data in its final report and remove the accreditation from individual data items if it believes that the validity of the data has not been affected. If further details are required of the circumstances which have led to the removal of accreditation then please do not hesitate to contact the laboratory.

## Sample Descriptions

**Client :** White Rock Geo Environmental Ltd  
**Site :** Parrys Quarry  
**Report Number :** W25\_4257

[illegible]