


**Photograph 65 – TP120 (2.9 – 3.6 m bgl)**

# Appendix D – SPT Calibration Certificates and Rig Calibration Certificates

JKS Boyles UK Limited, Mason House, Unit 10A, Enterprise Road,
Millennium Business Park, Mansfield, Nottinghamshire, NG19 7JX

# Report of Thorough In Service Examination of Lifting Equipment

As required by the Lifting Operations and Lifting Equipment Regulations 1998 LOLER (Regulation 9)

| Name & Address of Company | Address of premises |
|---|---|
| Delta –Simons<br>3 Henley Office Park<br>Doddington Road<br>Lincoln<br>LN6 3QR | |

| | | |
|---|---|---|
| **Drill Model: GEO300** | **Serial No. 2865** | **Year of Manufacture: 2017** |
| | | |
| Job Number: 01146 | | |
| Description of Equipment :<br>**Service Winch – TN09** | | Manufacturer:<br>**TMA** |
| Examination Date: 15-07-2020 | | Next Examination Date: 15-07-2021 |
| Serial No. / Reference: 17-2413 | | Year of Manufacture: 2017 |
| SWL(s) for the equipment examined: 2000kg | | |
| Type of examination carried out (see key below): P(12) | | |
| Details of Test/Examination: | | Proof Load Test |
| Winch Condition: | | Good |
| Rope Guide Rollers: | | Good |
| Rope Guide Springs: | | Good |
| Is an additional proof load test required? | | NO |
| Proof Load Applied if applicable: | | 1160kg |
| Winch Hold: | | 1100kg |
| Security of Rope Locking Mechanism: | | Good |
| **Rope Fitted:** | | |
| Rope Serial No./Reference: | | DRR3047-5 |
| Rope Condition: | | Damaged |
| Lifting Hook: | | Good |
| Hook Locking Mechanism: | | Good |
| WLL: | | 1398kg at 3:1 F.O.S (BS EN 16228)<br>8mm Rope, MBL 4194kg |
| Description of Equipment: **Chain** | | Examination Date: 15-07-2020 |
| Type of examination carried out: P(12) | | Next Examination Date: 15-07-2021 |
| Elongation measurement (max. 2%): | | 0.2% |
| Damaged Links: | | None / New |
| **Defects which are or could become a danger, the remedial actions and dates by which defects are to be resolved:** Rope to be replaced | | |
| **Other Defects:** None | | |
| **Observations:** None | | |
| **Declaration**: I confirm that the equipment was thoroughly examined and subject to any remedial action(s) in Section A being completed, is safe to operate. | | |
| Report Carried out by<br>Name: Chris Timons<br>Qualification: Engineer | | Report Authenticated by<br><br>Signature:<br><br>Nathan Jones BEng (Hons) MSc<br>Director |

Key: P(6) = Periodic 6 months P(12) = periodic 12 months H = Before Each Hire
EX + Exceptional circumstances F = First Inspection

JKS Boyles UK Limited, Mason House, Unit 10A, Enterprise Road,
Millennium Business Park, Mansfield, Nottinghamshire, NG19 7JX

# Report of Thorough In Service Examination of Lifting Equipment

As required by the Lifting Operations and Lifting Equipment Regulations 1998 LOLER (Regulation 9)

| Name & Address of Company | Address of premises |
|---|---|
| Delta –Simons<br>3 Henley Office Park<br>Doddington Road<br>Lincoln<br>LN6 3QR | |

| **Drill Model: GEO300** | **Serial No. 2865** | **Year of Manufacture: 2017** |
|---|---|---|
| | | |
| Job Number: 01147 | | |
| Description of Equipment :<br>**Wireline Winch – WL 03-CO-FH** | | Manufacturer:<br>**TMA** |
| Examination Date: 15-07-2020 | | Next Examination Date: 15-07-2021 |
| Serial No. / Reference: 20-0029 | | Year of Manufacture: 2017 |
| SWL(s) for the equipment examined: 800kg | | |
| Type of examination carried out (see key below): P(12) | | |
| Details of Test/Examination: | | Proof Load Test |
| Winch Condition: | | Good |
| Rope Guide Rollers: | | Good |
| Rope Guide Springs: | | Good |
| Is an additional proof load test required? | | NO |
| Proof Load Applied if applicable: | | 440kg |
| Winch Hold: | | 440kg (12th layer of rope. Winch certified at 355kg) |
| Security of Rope Locking Mechanism: | | Good |
| **Rope Fitted:** | | |
| Rope Serial No./Reference: | | M181418481 |
| Rope Condition: | | Good |
| Lifting Hook: | | Not Applicable |
| Hook Locking Mechanism: | | Not Applicable |
| WLL: | | 866kg at 3:1 F.O.S (BS EN 16228)<br>6mm Rope, MBL 2600kg |
| Description of Equipment: **Chain** | | Examination Date: N/R |
| Type of examination carried out: P(12) | | Next Examination Date: N/R |
| Elongation measurement (max. 2%): | | N/R |
| Damaged Links: | | N/R |
| **Defects which are or could become a danger, the remedial actions and dates by which defects are to be resolved:** None | | |
| **Other Defects:** None | | |
| **Observations:** None | | |
| **Declaration**: I confirm that the equipment was thoroughly examined and subject to any remedial action(s) in Section A being completed, is safe to operate. | | |
| Report Carried out by<br>Name: Chris Timons<br>Qualification: Engineer | Report Authenticated by<br><br>Signature:  <br><br>Nathan Jones BEng (Hons) MSc - Director | |

Key: P(6) = Periodic 6 months P(12) = periodic 12 months H = Before Each Hire
EX + Exceptional circumstances F = First Inspection

JKS Boyles UK Limited, Mason House, Unit 10A, Enterprise Road,
Millennium Business Park, Mansfield, Nottinghamshire, NG19 7JX

# Report of Thorough In Service Examination of Lifting Equipment

As required by the Lifting Operations and Lifting Equipment Regulations 1998 LOLER (Regulation 9)

| Name & Address of Company | Address of premises |
|---|---|
| Delta – Simons<br>3 Henly Office Park<br>Doddington<br>Lincoln<br>LN6 3QR | |

| | |
|---|---|
| Job Number: 01173 | |
| Description of Equipment:<br>**Geobor Overshot Assembly with Lifting Point** | |
| Examination Date: 18-01-2021 | Next Examination Date: 18-07-2021 |
| Serial No. / Reference: DSGB1 | |
| SWL(s) for the equipment examined: 1500kg | |
| Type of examination carried out (see key below): P(6) | |
| Details of Test/Examination: | Visual Inspection |
| Latch Entry Condition: | Good |
| Body Condition: | Good |
| Lifting Point Condition: | Good |
| Is an additional proof load test required? | NO |
| Proof Load Applied if applicable: | Not Required |
| Is this the first examination after assembly or after installation at a new site or location:<br><br>NO | If NO, was the examination carried out:<br><br>Within an interval of 6 months: YES |
| If YES, has the equipment been installed / assembled correctly:<br><br>N/A | Within an interval of 12 months: NO<br><br>In accordance with an examination scheme: YES<br><br>After an occurrence of exceptional circumstances: N/A |
| **Defects which are or could become a danger, the remedial actions and dates by which defects are to be resolved:** None | |
| **Other Defects:** None | |
| **Observations:** None, the equipment is safe to operate. | |
| **Declaration**: I confirm that the equipment was thoroughly examined and subject to any remedial action(s) in Section A being completed, is safe to operate. | |
| Report Carried out by<br>Name: Thomas Jones<br>Qualification: Engineer | Report Authenticated by<br><br>Signature:  <br><br>Nathan Jones BEng (Hons) MSc - Director |

Key: P(6) = Periodic 6 months P(12) = periodic 12 months H = Before Each Hire
EX + Exceptional circumstances F = First Inspection

JKS Boyles UK Limited, Mason House, Unit 10A, Enterprise Road,
Millennium Business Park, Mansfield, Nottinghamshire, NG19 7JX

# Report of Thorough In Service Examination of Lifting Equipment

As required by the Lifting Operations and Lifting Equipment Regulations 1998 LOLER (Regulation 9)

| Name & Address of Company | Address of premises |
|---|---|
| Delta – Simons<br>3 Henly Office Park<br>Doddington<br>Lincoln<br>LN6 3QR | |

| | |
|---|---|
| Job Number: 01168 | |
| Description of Equipment:<br>**NWY Rod Swivel - Male** | |
| Examination Date: 18-01-2021 | Next Examination Date: 18-07-2021 |
| Serial No. / Reference: AR1892B | |
| SWL(s) for the equipment examined: 2000kg | |
| Type of examination carried out (see key below): P(6) | |
| Details of Test/Examination: | Visual Inspection |
| Thread Condition: | Good |
| Swivel Condition: | Good |
| Lifting Point Condition: | Good |
| Is an additional proof load test required? | NO |
| Proof Load Applied if applicable: | Not Required |
| Is this the first examination after assembly or after installation at a new site or location:<br><br>NO | If NO, was the examination carried out:<br><br>Within an interval of 6 months: YES |
| If YES, has the equipment been installed / assembled correctly:<br><br>N/A | Within an interval of 12 months: NO<br><br>In accordance with an examination scheme: YES<br><br>After an occurrence of exceptional circumstances: N/A |
| **Defects which are or could become a danger, the remedial actions and dates by which defects are to be resolved:** None | |
| **Other Defects:** None | |
| **Observations:** None, the equipment is safe to operate. | |
| **Declaration**: I confirm that the equipment was thoroughly examined and subject to any remedial action(s) in Section A being completed, is safe to operate. | |
| Report Carried out by<br>Name: Thomas Jones<br>Qualification: Engineer | Report Authenticated by<br><br>Signature:  <br><br>Nathan Jones BEng (Hons) MSc - Director |

Key: P(6) = Periodic 6 months P(12) = periodic 12 months H = Before Each Hire
EX + Exceptional circumstances F = First Inspection

JKS Boyles UK Limited, Mason House, Unit 10A, Enterprise Road,
Millennium Business Park, Mansfield, Nottinghamshire, NG19 7JX

# Report of Thorough In Service Examination of Lifting Equipment

As required by the Lifting Operations and Lifting Equipment Regulations 1998 LOLER (Regulation 9)

| Name & Address of Company | Address of premises |
|---|---|
| Delta – Simons<br>3 Henly Office Park<br>Doddington<br>Lincoln<br>LN6 3QR | |

| | |
|---|---|
| Job Number: 01167 | |
| Description of Equipment:<br>**NWY Rod Swivel - Male** | |
| Examination Date: 18-01-2021 | Next Examination Date: 18-07-2021 |
| Serial No. / Reference: AR3153 | |
| SWL(s) for the equipment examined: 4000kg | |
| Type of examination carried out (see key below): P(6) | |
| Details of Test/Examination: | Visual Inspection |
| Thread Condition: | Good |
| Swivel Condition: | Good |
| Lifting Point Condition: | Good |
| Is an additional proof load test required? | NO |
| Proof Load Applied if applicable: | Not Required |
| Is this the first examination after assembly or after installation at a new site or location:<br><br>NO | If NO, was the examination carried out:<br><br>Within an interval of 6 months: YES |
| If YES, has the equipment been installed / assembled correctly:<br><br>N/A | Within an interval of 12 months: NO<br><br>In accordance with an examination scheme: YES<br><br>After an occurrence of exceptional circumstances: N/A |
| **Defects which are or could become a danger, the remedial actions and dates by which defects are to be resolved:** None | |
| **Other Defects:** None | |
| **Observations:** None, the equipment is safe to operate. | |
| **Declaration**: I confirm that the equipment was thoroughly examined and subject to any remedial action(s) in Section A being completed, is safe to operate. | |
| Report Carried out by<br>Name: Thomas Jones<br>Qualification: Engineer | Report Authenticated by<br><br>Signature:  <br><br>Nathan Jones BEng (Hons) MSc - Director |

Key: P(6) = Periodic 6 months P(12) = periodic 12 months H = Before Each Hire
EX + Exceptional circumstances F = First Inspection

JKS Boyles UK Limited, Mason House, Unit 10A, Enterprise Road,
Millennium Business Park, Mansfield, Nottinghamshire, NG19 7JX

# Report of Thorough In Service Examination of Lifting Equipment

As required by the Lifting Operations and Lifting Equipment Regulations 1998 LOLER (Regulation 9)

| Name & Address of Company | Address of premises |
|---|---|
| Delta – Simons<br>3 Henly Office Park<br>Doddington<br>Lincoln<br>LN6 3QR | |

| | |
|---|---|
| Job Number: 01166 | |
| Description of Equipment:<br>**Swivel Hoist 1.1/2" BSW Female** | |
| Examination Date: 18-01-2021 | Next Examination Date: 18-07-2021 |
| Serial No. / Reference: AR3036 | |
| SWL(s) for the equipment examined: 4000kg | |
| Type of examination carried out (see key below): P(6) | |
| Details of Test/Examination: | Visual Inspection |
| Thread Condition: | Good |
| Swivel Condition: | Good |
| Lifting Point Condition: | Good |
| Is an additional proof load test required? | NO |
| Proof Load Applied if applicable: | Not Required |
| Is this the first examination after assembly or after installation at a new site or location:<br><br>NO | If NO, was the examination carried out:<br><br>Within an interval of 6 months: YES |
| If YES, has the equipment been installed / assembled correctly:<br><br>N/A | Within an interval of 12 months: NO<br><br>In accordance with an examination scheme: YES<br><br>After an occurrence of exceptional circumstances: N/A |
| **Defects which are or could become a danger, the remedial actions and dates by which defects are to be resolved:** None | |
| **Other Defects:** None | |
| **Observations:** None, the equipment is safe to operate. | |
| **Declaration**: I confirm that the equipment was thoroughly examined and subject to any remedial action(s) in Section A being completed, is safe to operate. | |
| Report Carried out by<br>Name: Thomas Jones<br>Qualification: Engineer | Report Authenticated by<br><br>Signature:  <br><br>Nathan Jones BEng (Hons) MSc - Director |

Key: P(6) = Periodic 6 months P(12) = periodic 12 months H = Before Each Hire
EX + Exceptional circumstances F = First Inspection

JKS Boyles UK Limited, Mason House, Unit 10A, Enterprise Road,
Millennium Business Park, Mansfield, Nottinghamshire, NG19 7JX

# Report of Thorough In Service Examination of Lifting Equipment

As required by the Lifting Operations and Lifting Equipment Regulations 1998 LOLER (Regulation 9)

| Name & Address of Company | Address of premises |
|---|---|
| Delta – Simons<br>3 Henly Office Park<br>Doddington<br>Lincoln<br>LN6 3QR | |

| | |
|---|---|
| Job Number: 01165 | |
| Description of Equipment:<br>**Swivel Hoist 2.3/8" API Reg Female** | |
| Examination Date: 18-01-2021 | Next Examination Date: 18-07-2021 |
| Serial No. / Reference: AR3123 | |
| SWL(s) for the equipment examined: 4000kg | |
| Type of examination carried out (see key below): P(6) | |
| Details of Test/Examination: | Visual Inspection |
| Thread Condition: | Good |
| Swivel Condition: | Good |
| Lifting Point Condition: | Good |
| Is an additional proof load test required? | NO |
| Proof Load Applied if applicable: | Not Required |
| Is this the first examination after assembly or after installation at a new site or location:<br><br>NO | If NO, was the examination carried out:<br><br>Within an interval of 6 months: YES |
| If YES, has the equipment been installed / assembled correctly:<br><br>N/A | Within an interval of 12 months: NO<br><br>In accordance with an examination scheme: YES<br><br>After an occurrence of exceptional circumstances: N/A |
| **Defects which are or could become a danger, the remedial actions and dates by which defects are to be resolved:** None | |
| **Other Defects:** None | |
| **Observations:** None, the equipment is safe to operate. | |
| **Declaration**: I confirm that the equipment was thoroughly examined and subject to any remedial action(s) in Section A being completed, is safe to operate. | |
| Report Carried out by<br>Name: Thomas Jones<br>Qualification: Engineer | Report Authenticated by<br><br>Signature:  <br><br>Nathan Jones BEng (Hons) MSc - Director |

Key: P(6) = Periodic 6 months P(12) = periodic 12 months H = Before Each Hire
EX + Exceptional circumstances F = First Inspection

JKS Boyles UK Limited, Mason House, Unit 10A, Enterprise Road,
Millennium Business Park, Mansfield, Nottinghamshire, NG19 7JX

# Report of Thorough In Service Examination of Lifting Equipment

As required by the Lifting Operations and Lifting Equipment Regulations 1998 LOLER (Regulation 9)

| Name & Address of Company | Address of premises |
|---|---|
| Delta – Simons<br>3 Henly Office Park<br>Doddington<br>Lincoln<br>LN6 3QR | |

| | |
|---|---|
| Job Number: 01164 | |
| Description of Equipment:<br>**Swivel Hoist 2.3/8" API Reg Male** | |
| Examination Date: 18-01-2021 | Next Examination Date: 18-07-2021 |
| Serial No. / Reference: AR1892 | |
| SWL(s) for the equipment examined: 2000kg | |
| Type of examination carried out (see key below): P(6) | |
| Details of Test/Examination: | Visual Inspection |
| Thread Condition: | Good |
| Swivel Condition: | Good |
| Lifting Point Condition: | Good |
| Is an additional proof load test required? | NO |
| Proof Load Applied if applicable: | Not Required |
| Is this the first examination after assembly or after installation at a new site or location:<br><br>NO | If NO, was the examination carried out:<br><br>Within an interval of 6 months: YES |
| If YES, has the equipment been installed / assembled correctly:<br><br>N/A | Within an interval of 12 months: NO<br><br>In accordance with an examination scheme: YES<br><br>After an occurrence of exceptional circumstances: N/A |
| **Defects which are or could become a danger, the remedial actions and dates by which defects are to be resolved:** None | |
| **Other Defects:** None | |
| **Observations:** None, the equipment is safe to operate. | |
| **Declaration**: I confirm that the equipment was thoroughly examined and subject to any remedial action(s) in Section A being completed, is safe to operate. | |
| Report Carried out by<br>Name: Thomas Jones<br>Qualification: Engineer | Report Authenticated by<br><br>Signature:  <br><br>Nathan Jones BEng (Hons) MSc - Director |

Key: P(6) = Periodic 6 months P(12) = periodic 12 months H = Before Each Hire
EX + Exceptional circumstances F = First Inspection

Mason House
Unit 10A, Enterprise Road
Millennium Business Park
Mansfield, Nottinghamshire
NG19 7JX
T: 01623 392 493
E: sales@jks-boyles-ltd.co.uk

# EC Declaration of Conformity

**Lifting Operations & Lifting Equipment Regulations 1998**

| Client Address: | Site Address: | Report No. SO2001551 | |
|---|---|---|---|
| Delta-Simons Env. Con. Limited<br>3 Henley Office Park<br>Doddington Road<br>Lincoln<br>LN6 3QR | | Date of Report:<br>18/01/2021 | Date of Test:<br>15/12/2020 |
| | | Order No. | |

| Distinguishing Mark | Description of the Equipment | Qty | SWL/WLL | Standards Used |
|---|---|---|---|---|
| DRR4441-2 | 8mm Winch Rope Assembly – Non Rotating. 30metre fitted with Self Locking Hook. Fused & Taper the other end. MBL Stamped on Ferrule | 1 | WLL 1258kg at 3:1<br><br>MBL 3774kg | BS EN16228 |

We hereby declare that the above particulars are correct, that the equipment is new and found to be free from any defect likely to affect safety.

| This report has been produced to replicate the supplier's/manufacturer's original certificate which is kept on file by JKS Boyles UK Limited | | |
|---|---|---|
| Name of Person Making this Declaration<br><br>Signature …….. | | Latest Date by which Next Examination must be carried out<br>15/06/2021<br>…….. |

SAFETYLIFTINGGEAR.COM

SAFETY-LIFTING.COM PalleTrucks-Trolleys.com

Date of Dispatch: 26/01/2021
Certification Number: 443151
Order Number: SLG-00181720

# EC DECLARATION of CONFORMITY

| Name and address of authorised representative: | Name and address of manufacturer: |
|---|---|
| Tacklestore Ltd TA Safety Lifting Gear<br>Unit R1D Rockingham Gate<br>Poplar Way West<br>Cabot Park<br>Bristol<br>BS11 0YW | Tacklestore<br>Unit R1D Rockingham Gate,<br>Cabot Park<br>Avonmouth, Bristol<br>BS11 0YW<br>United Kingdom |

Description of Equipment (make, type and serial number)

| | |
|---|---|
| Product: | 1 ton safety pin alloy bow shackle |
| EWL/HOL: | N/A |
| SWL: | 1 ton |
| QTY: | 2.00 |
| Batch Numbers: | |
| Serial Numbers: | B/N: F1 S/N: 1, B/N: F1 S/N: 2 (DS06) |

The above equipment conforms to the supply of machinery (Safety) regulations 2008 as amended by the supply of machinery (Safety) (Amendment) regulations 2011 as well as complying with the following EC Directive:

Regulations European Machinery Directive 2006/42/EC

The European Transposed Harmonised Standards this product conforms to are:

EN 13889:2003+A1:2008 - Forged steel shackles for general lifting purposes. Dee shackles and bow shackles. Grade 6. Safety

The shackles meet the performance requirements of U.S. Federal Specification:

RR-C-271D - Chain and Attachments, Welded and Weldless

Mike Hughes

Mike Hughes
General Manager

Scanned with CamScanner

SAFETYLIFTINGEAR.COM

Date of Dispatch: 26/01/2021
Certification Number: 443151
Order Number: SLG-00181720

# EC DECLARATION of CONFORMITY

| Name and address of authorised representative: | Name and address of manufacturer: |
|---|---|
| Tacklestore Ltd TA Safety Lifting Gear<br>Unit R1D Rockingham Gate<br>Poplar Way West<br>Cabot Park<br>Bristol<br>BS11 0YW | Tacklestore<br>Unit R1D Rockingham Gate,<br>Cabot Park<br>Avonmouth, Bristol<br>BS11 0YW<br>United Kingdom |

Description of Equipment (make, type and serial number)

| | |
|---|---|
| Product: | 2 ton safety pin alloy bow shackle |
| EWL/HOL: | N/A |
| SWL: | 2 ton |
| QTY: | 2.00 |
| Batch Numbers: | |
| Serial Numbers: | B/N: XNN S/N: 3, B/N: XNN S/N: 4 |

The above equipment conforms to the supply of machinery (Safety) regulations 2008 as amended by the supply of machinery (Safety) (Amendment) regulations 2011 as well as complying with the following EC Directive:

Regulations European Machinery Directive 2006/42/EC

The European Transposed Harmonised Standards this product conforms to are:

EN 13889:2003+A1:2008 - Forged steel shackles for general lifting purposes. Dee shackles and bow shackles. Grade 6. Safety

The shackles meet the performance requirements of U.S. Federal Specification:

RR-C-271D - Chain and Attachments, Welded and Weldless

Mike Hughes

Mike Hughes
General Manager

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# Allied Exploration & Geotechnics Ltd.

**Unit 25 Stella Gill Industrial Estate**
**Pelton Fell**
**Chester-le-Street**
**DH2 2RG**

# SPT Hammer Energy Test Report

in accordance with BSEN ISO 22476-3:2005

| | |
|---|---|
| SPT Hammer Ref: | DELTASIMONS |
| Test Date: | 06/01/2021 |
| Report Date: | 06/01/2021 |
| File Name: | DELTASIMONS.spt |
| Test Operator: | BP |

## Instrumented Rod Data

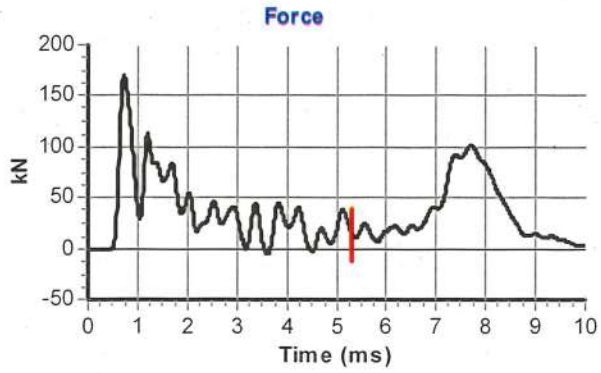
| | |
|---|---|
| Diameter $d_r$ (mm): | 67 |
| Wall Thickness $t_r$ (mm): | 8.8 |
| Assumed Modulus $E_a$ (GPa): | 208 |
| Accelerometer No.1: | 65939 |
| Accelerometer No.2: | 66286 |

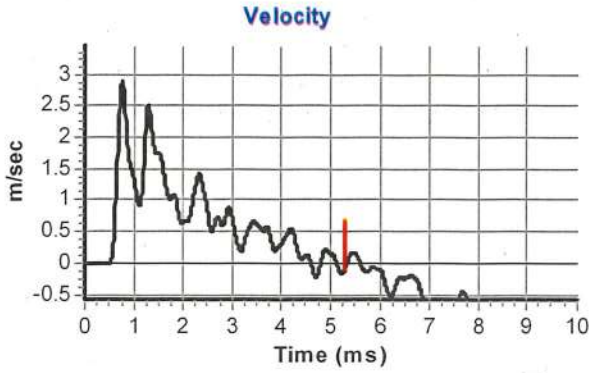
## SPT Hammer Information

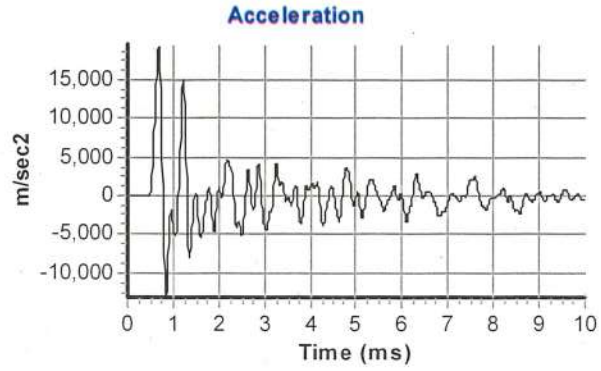
| | |
|---|---|
| Hammer Mass m (kg): | 63.5 |
| Falling Height h (mm): | 760 |
| SPT String Length L (m): | 14.1 |

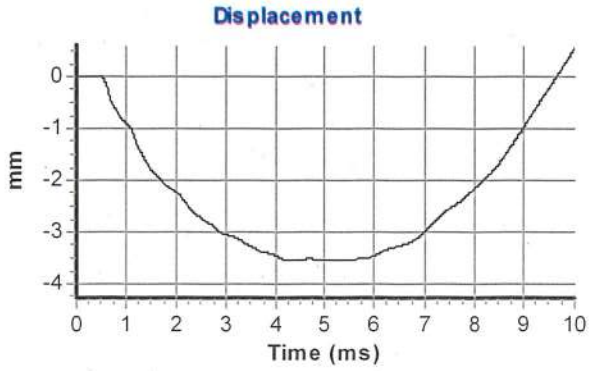
## Comments / Location

Mass and drop supplied by client




## Calculations

| | |
|---|---|
| Area of Rod A (mm2): | 1609 |
| Theoretical Energy $E_{theor}$ (J): | 473 |
| Measured Energy $E_{meas}$ (J): | 243 |

**Energy Ratio $E_r$ (%):** **51**

B Proctor

Signed: Brian Proctor

Title: Senior Technician

The recommended calibration interval is 12 months

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Date of Dispatch: 26/01/2021
Certification Number: 443151
Order Number: SLG-00181720

# EC DECLARATION of CONFORMITY

| Name and address of authorised representative: | Name and address of manufacturer: |
|---|---|
| Tacklestore Ltd TA Safety Lifting Gear<br>Unit R1D Rockingham Gate<br>Poplar Way West<br>Cabot Park<br>Bristol<br>BS11 0YW | Tacklestore<br>Unit R1D Rockingham Gate,<br>Cabot Park<br>Avonmouth, Bristol<br>BS11 0YW<br>United Kingdom |

Description of Equipment (make, type and serial number)

| | |
|---|---|
| Product: | 1.4 tonne (Suitable 6mm G100 Chain) Ball Bearing Swivel Self Locking |
| EWL/HOL: | N/A |
| SWL: | 1.4 tonne |
| QTY: | 1.00 |
| Batch Numbers: | |
| Serial Numbers: | B/N: 19B S/N: 5 DSH2 |

The above equipment conforms to the supply of machinery (Safety) regulations 2008 as amended by the supply of machinery (Safety) (Amendment) regulations 2011 as well as complying with the following EC Directive:

Regulations European Machinery Directive 2006/42/EC

The European Transposed Harmonised Standard with increased lifting capacity this product conforms to is:

EN 1677

Mike Hughes

Mike Hughes
General Manager

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# Appendix E – Chemical Soil, Groundwater and Surface Water Results

**Liane Baiao**
Delta-Simons
Suite 4a
One Portland Street
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# Analytical Report Number : 21-58124

| | | | |
|---|---|---|---|
| **Project / Site name:** | Brockhampton West, Havant | **Samples received on:** | 22/02/2021 |
| **Your job number:** | 19-2099 04 | **Samples instructed on/ Analysis started on:** | 22/02/2021 |
| **Your order number:** | DS59329 | **Analysis completed by:** | 02/03/2021 |
| **Report Issue Number:** | 1 | **Report issued on:** | 02/03/2021 |
| **Samples Analysed:** | 10 soil samples | | |

**Signed:** Karolina Marek

Karolina Marek
PL Head of Reporting Team
**For & on behalf of i2 Analytical Ltd.**

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils - 4 weeks from reporting
leachates - 2 weeks from reporting
waters - 2 weeks from reporting
asbestos - 6 months from reporting

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Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement.
Application of uncertainty of measurement would provide a range within which the true result lies.
An estimate of measurement uncertainty can be provided on request.

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The results included within the report are representative of the samples submitted for analysis.

**Analytical Report Number: 21-58124**
**Project / Site name: Brockhampton West, Havant**
**Your Order No: DS59329**

| Lab Sample Number | | | | 1777625 | 1777626 | 1777627 | 1777628 | 1777629 |
|---|---|---|---|---|---|---|---|---|
| Sample Reference | | | | RO108 | RO108 | RO108 | RO108 | RO102 |
| Sample Number | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Depth (m) | | | | 0.10-0.40 | 1.20-1.60 | 3.20-3.60 | 4.50-6.00 | 0.30-0.60 |
| Date Sampled | | | | 16/02/2021 | 16/02/2021 | 16/02/2021 | 16/02/2021 | 18/02/2021 |
| Time Taken | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| **Analytical Parameter (Soil Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | | | | | |
| Stone Content | % | 0.1 | NONE | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Moisture Content | % | 0.01 | NONE | 16 | 18 | 25 | 45 | 21 |
| Total mass of sample received | kg | 0.001 | NONE | 1.2 | 0.9 | 0.8 | 0.4 | 0.9 |
| Asbestos in Soil | Type | N/A | ISO 17025 | Not-detected | - | Not-detected | - | Not-detected |

**General Inorganics**

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| pH - Automated | pH Units | N/A | MCERTS | 8.0 | 7.3 | 8.6 | - | 8.1 |
| Total Sulphate as SO4 | % | 0.005 | MCERTS | - | 0.031 | - | - | - |
| Water Soluble Sulphate as SO4 16hr extraction (2:1) | mg/kg | 2.5 | MCERTS | 240 | 160 | 1700 | - | 48 |
| Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent) | g/l | 0.00125 | MCERTS | 0.12 | 0.082 | 0.86 | - | 0.024 |
| Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent) | mg/l | 1.25 | MCERTS | 121 | 81.8 | 864 | - | 23.9 |
| Total Sulphur | % | 0.005 | MCERTS | - | 0.02 | - | - | - |
| Organic Matter | % | 0.1 | MCERTS | - | - | - | - | 2.9 |

**Phenols by GC-MS**

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Phenol | mg/kg | 0.2 | NONE | - | - | - | - | - |
| 2,4,5-Trichlorophenol | mg/kg | 0.2 | NONE | - | - | - | - | - |
| 2,4,6-Trichlorophenol | mg/kg | 0.1 | NONE | - | - | - | - | - |
| 2,4-Dichlorophenol | mg/kg | 0.3 | NONE | - | - | - | - | - |
| 2,4-Dimethylphenol | mg/kg | 0.3 | NONE | - | - | - | - | - |
| 2-Chlorophenol | mg/kg | 0.1 | NONE | - | - | - | - | - |
| 2-Methylphenol | mg/kg | 0.3 | MCERTS | - | - | - | - | - |
| 2-Nitrophenol | mg/kg | 0.3 | NONE | - | - | - | - | - |
| 4-Chloro-3-methylphenol | mg/kg | 0.1 | ISO 17025 | - | - | - | - | - |
| 4-Methylphenol | mg/kg | 0.2 | NONE | - | - | - | - | - |

**Total Phenols**

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Total Phenols (GC-MS) | mg/kg | 1 | NONE | - | - | - | - | - |

**Speciated PAHs**

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Naphthalene | mg/kg | 0.05 | MCERTS | < 0.05 | - | 0.34 | - | < 0.05 |
| Acenaphthylene | mg/kg | 0.05 | MCERTS | < 0.05 | - | < 0.05 | - | < 0.05 |
| Acenaphthene | mg/kg | 0.05 | MCERTS | < 0.05 | - | < 0.05 | - | < 0.05 |
| Fluorene | mg/kg | 0.05 | MCERTS | < 0.05 | - | < 0.05 | - | < 0.05 |
| Phenanthrene | mg/kg | 0.05 | MCERTS | 0.62 | - | 0.7 | - | < 0.05 |
| Anthracene | mg/kg | 0.05 | MCERTS | < 0.05 | - | 0.16 | - | < 0.05 |
| Fluoranthene | mg/kg | 0.05 | MCERTS | 1.8 | - | 1.2 | - | < 0.05 |
| Pyrene | mg/kg | 0.05 | MCERTS | 1.4 | - | 1.1 | - | < 0.05 |
| Benzo(a)anthracene | mg/kg | 0.05 | MCERTS | 1.0 | - | 0.63 | - | < 0.05 |
| Chrysene | mg/kg | 0.05 | MCERTS | 1.1 | - | 0.55 | - | < 0.05 |
| Benzo(b)fluoranthene | mg/kg | 0.05 | MCERTS | 1.4 | - | 0.65 | - | < 0.05 |
| Benzo(k)fluoranthene | mg/kg | 0.05 | MCERTS | 0.46 | - | 0.32 | - | < 0.05 |
| Benzo(a)pyrene | mg/kg | 0.05 | MCERTS | 1.1 | - | 0.55 | - | < 0.05 |
| Indeno(1,2,3-cd)pyrene | mg/kg | 0.05 | MCERTS | 0.77 | - | 0.24 | - | < 0.05 |
| Dibenz(a,h)anthracene | mg/kg | 0.05 | MCERTS | < 0.05 | - | < 0.05 | - | < 0.05 |
| Benzo(ghi)perylene | mg/kg | 0.05 | MCERTS | 0.66 | - | 0.3 | - | < 0.05 |

**Total PAH**

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Speciated Total EPA-16 PAHs | mg/kg | 0.8 | MCERTS | 10.3 | - | 6.76 | - | < 0.80 |

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**Your Order No: DS59329**

| Lab Sample Number | | | | 1777625 | 1777626 | 1777627 | 1777628 | 1777629 |
|---|---|---|---|---|---|---|---|---|
| Sample Reference | | | | RO108 | RO108 | RO108 | RO108 | RO102 |
| Sample Number | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Depth (m) | | | | 0.10-0.40 | 1.20-1.60 | 3.20-3.60 | 4.50-6.00 | 0.30-0.60 |
| Date Sampled | | | | 16/02/2021 | 16/02/2021 | 16/02/2021 | 16/02/2021 | 18/02/2021 |
| Time Taken | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| **Analytical Parameter (Soil Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | | | | | |
| **Heavy Metals / Metalloids** | | | | | | | | |
| Arsenic (aqua regia extractable) | mg/kg | 1 | MCERTS | 6.6 | - | 11 | - | 8.9 |
| Cadmium (aqua regia extractable) | mg/kg | 0.2 | MCERTS | 0.4 | - | 0.9 | - | 1.3 |
| Chromium (hexavalent) | mg/kg | 1.2 | MCERTS | < 1.2 | - | < 1.2 | - | < 1.2 |
| Chromium (III) | mg/kg | 1 | NONE | - | - | - | - | - |
| Chromium (aqua regia extractable) | mg/kg | 1 | MCERTS | 17 | - | 26 | - | 32 |
| Copper (aqua regia extractable) | mg/kg | 1 | MCERTS | 28 | - | 77 | - | 33 |
| Lead (aqua regia extractable) | mg/kg | 1 | MCERTS | 31 | - | 150 | - | 91 |
| Mercury (aqua regia extractable) | mg/kg | 0.3 | MCERTS | < 0.3 | - | < 0.3 | - | < 0.3 |
| Nickel (aqua regia extractable) | mg/kg | 1 | MCERTS | 15 | - | 23 | - | 19 |
| Zinc (aqua regia extractable) | mg/kg | 1 | MCERTS | 71 | - | 200 | - | 79 |
| **Monoaromatics & Oxygenates** | | | | | | | | |
| Benzene | mg/kg | 0.001 | MCERTS | < 0.001 | - | < 0.001 | - | < 0.001 |
| Toluene | mg/kg | 0.001 | MCERTS | < 0.001 | - | < 0.001 | - | < 0.001 |
| Ethylbenzene | mg/kg | 0.001 | MCERTS | < 0.001 | - | < 0.001 | - | < 0.001 |
| p & m-xylene | mg/kg | 0.001 | MCERTS | < 0.001 | - | < 0.001 | - | < 0.001 |
| o-xylene | mg/kg | 0.001 | MCERTS | < 0.001 | - | < 0.001 | - | < 0.001 |
| MTBE (Methyl Tertiary Butyl Ether) | mg/kg | 0.001 | MCERTS | < 0.001 | - | < 0.001 | - | < 0.001 |
| **Petroleum Hydrocarbons** | | | | | | | | |
| TPH C10 - C40 | mg/kg | 10 | MCERTS | - | - | - | - | - |
| TPH-CWG - Aliphatic >EC5 - EC6 | mg/kg | 0.001 | MCERTS | < 0.001 | - | < 0.001 | - | < 0.001 |
| TPH-CWG - Aliphatic >EC6 - EC8 | mg/kg | 0.001 | MCERTS | < 0.001 | - | < 0.001 | - | < 0.001 |
| TPH-CWG - Aliphatic >EC8 - EC10 | mg/kg | 0.001 | MCERTS | < 0.001 | - | < 0.001 | - | < 0.001 |
| TPH-CWG - Aliphatic >EC10 - EC12 | mg/kg | 1 | MCERTS | < 1.0 | - | 3.9 | - | < 1.0 |
| TPH-CWG - Aliphatic >EC12 - EC16 | mg/kg | 2 | MCERTS | < 2.0 | - | 13 | - | < 2.0 |
| TPH-CWG - Aliphatic >EC16 - EC21 | mg/kg | 8 | MCERTS | < 8.0 | - | 30 | - | < 8.0 |
| TPH-CWG - Aliphatic >EC21 - EC35 | mg/kg | 8 | MCERTS | 27 | - | 170 | - | < 8.0 |
| TPH-CWG - Aliphatic >EC35 - EC40 | mg/kg | 10 | NONE | 130 | - | 78 | - | < 10 |
| TPH-CWG - Aliphatic (EC5 - EC35) | mg/kg | 10 | MCERTS | 27 | - | 220 | - | < 10 |
| TPH-CWG - Aromatic >EC5 - EC7 | mg/kg | 0.001 | MCERTS | < 0.001 | - | < 0.001 | - | < 0.001 |
| TPH-CWG - Aromatic >EC7 - EC8 | mg/kg | 0.001 | MCERTS | < 0.001 | - | < 0.001 | - | < 0.001 |
| TPH-CWG - Aromatic >EC8 - EC10 | mg/kg | 0.001 | MCERTS | < 0.001 | - | < 0.001 | - | < 0.001 |
| TPH-CWG - Aromatic >EC10 - EC12 | mg/kg | 1 | MCERTS | 6.1 | - | 1.3 | - | < 1.0 |
| TPH-CWG - Aromatic >EC12 - EC16 | mg/kg | 2 | MCERTS | 19 | - | 9.2 | - | < 2.0 |
| TPH-CWG - Aromatic >EC16 - EC21 | mg/kg | 10 | MCERTS | 39 | - | 17 | - | < 10 |
| TPH-CWG - Aromatic >EC21 - EC35 | mg/kg | 10 | MCERTS | 180 | - | 63 | - | < 10 |
| TPH-CWG - Aromatic >EC35 - EC40 | mg/kg | 10 | NONE | 140 | - | < 10 | - | < 10 |
| TPH-CWG - Aromatic (EC5 - EC35) | mg/kg | 10 | MCERTS | 240 | - | 91 | - | < 10 |
| TPH (C35 - C40) | mg/kg | 10 | MCERTS | 270 | - | 78 | - | < 10 |

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|---|---|---|---|---|---|---|---|---|
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| Sample Number | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Depth (m) | | | | 0.10-0.40 | 1.20-1.60 | 3.20-3.60 | 4.50-6.00 | 0.30-0.60 |
| Date Sampled | | | | 16/02/2021 | 16/02/2021 | 16/02/2021 | 16/02/2021 | 18/02/2021 |
| Time Taken | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| **Analytical Parameter (Soil Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | | | | | |
| **VOCs** | | | | | | | | |
| Chloromethane | mg/kg | 0.001 | ISO 17025 | - | - | - | < 0.0010 | - |
| Chloroethane | mg/kg | 0.001 | NONE | - | - | - | < 0.0010 | - |
| Bromomethane | mg/kg | 0.001 | ISO 17025 | - | - | - | < 0.0010 | - |
| Vinyl Chloride | mg/kg | 0.001 | NONE | - | - | - | < 0.0010 | - |
| Trichlorofluoromethane | mg/kg | 0.001 | NONE | - | - | - | < 0.0010 | - |
| 1,1-Dichloroethene | mg/kg | 0.001 | NONE | - | - | - | < 0.0010 | - |
| 1,1,2-Trichloro 1,2,2-Trifluoroethane | mg/kg | 0.001 | ISO 17025 | - | - | - | < 0.0010 | - |
| Cis-1,2-dichloroethene | mg/kg | 0.001 | MCERTS | - | - | - | < 0.0010 | - |
| MTBE (Methyl Tertiary Butyl Ether) | mg/kg | 0.001 | MCERTS | - | - | - | < 0.0010 | - |
| 1,1-Dichloroethane | mg/kg | 0.001 | MCERTS | - | - | - | < 0.0010 | - |
| 2,2-Dichloropropane | mg/kg | 0.001 | MCERTS | - | - | - | < 0.0010 | - |
| Trichloromethane | mg/kg | 0.001 | MCERTS | - | - | - | < 0.0010 | - |
| 1,1,1-Trichloroethane | mg/kg | 0.001 | MCERTS | - | - | - | < 0.0010 | - |
| 1,2-Dichloroethane | mg/kg | 0.001 | MCERTS | - | - | - | < 0.0010 | - |
| 1,1-Dichloropropene | mg/kg | 0.001 | MCERTS | - | - | - | < 0.0010 | - |
| Trans-1,2-dichloroethene | mg/kg | 0.001 | NONE | - | - | - | < 0.0010 | - |
| Benzene | mg/kg | 0.001 | MCERTS | - | - | - | < 0.0010 | - |
| Tetrachloromethane | mg/kg | 0.001 | MCERTS | - | - | - | < 0.0010 | - |
| 1,2-Dichloropropane | mg/kg | 0.001 | MCERTS | - | - | - | < 0.0010 | - |
| Trichloroethene | mg/kg | 0.001 | MCERTS | - | - | - | < 0.0010 | - |
| Dibromomethane | mg/kg | 0.001 | MCERTS | - | - | - | < 0.0010 | - |
| Bromodichloromethane | mg/kg | 0.001 | MCERTS | - | - | - | < 0.0010 | - |
| Cis-1,3-dichloropropene | mg/kg | 0.001 | ISO 17025 | - | - | - | < 0.0010 | - |
| Trans-1,3-dichloropropene | mg/kg | 0.001 | ISO 17025 | - | - | - | < 0.0010 | - |
| Toluene | mg/kg | 0.001 | MCERTS | - | - | - | < 0.0010 | - |
| 1,1,2-Trichloroethane | mg/kg | 0.001 | MCERTS | - | - | - | < 0.0010 | - |
| 1,3-Dichloropropane | mg/kg | 0.001 | ISO 17025 | - | - | - | < 0.0010 | - |
| Dibromochloromethane | mg/kg | 0.001 | ISO 17025 | - | - | - | < 0.0010 | - |
| Tetrachloroethene | mg/kg | 0.001 | NONE | - | - | - | < 0.0010 | - |
| 1,2-Dibromoethane | mg/kg | 0.001 | ISO 17025 | - | - | - | < 0.0010 | - |
| Chlorobenzene | mg/kg | 0.001 | MCERTS | - | - | - | < 0.0010 | - |
| 1,1,1,2-Tetrachloroethane | mg/kg | 0.001 | MCERTS | - | - | - | < 0.0010 | - |
| Ethylbenzene | mg/kg | 0.001 | MCERTS | - | - | - | 0.046 | - |
| p & m-Xylene | mg/kg | 0.001 | MCERTS | - | - | - | 0.036 | - |
| Styrene | mg/kg | 0.001 | MCERTS | - | - | - | < 0.0010 | - |
| Tribromomethane | mg/kg | 0.001 | NONE | - | - | - | < 0.0010 | - |
| o-Xylene | mg/kg | 0.001 | MCERTS | - | - | - | 0.021 | - |
| 1,1,2,2-Tetrachloroethane | mg/kg | 0.001 | MCERTS | - | - | - | < 0.0010 | - |
| Isopropylbenzene | mg/kg | 0.001 | MCERTS | - | - | - | 0.014 | - |
| Bromobenzene | mg/kg | 0.001 | MCERTS | - | - | - | < 0.0010 | - |
| n-Propylbenzene | mg/kg | 0.001 | ISO 17025 | - | - | - | < 0.0010 | - |
| 2-Chlorotoluene | mg/kg | 0.001 | MCERTS | - | - | - | < 0.0010 | - |
| 4-Chlorotoluene | mg/kg | 0.001 | MCERTS | - | - | - | < 0.0010 | - |
| 1,3,5-Trimethylbenzene | mg/kg | 0.001 | ISO 17025 | - | - | - | 0.044 | - |
| tert-Butylbenzene | mg/kg | 0.001 | MCERTS | - | - | - | < 0.0010 | - |
| 1,2,4-Trimethylbenzene | mg/kg | 0.001 | ISO 17025 | - | - | - | 0.28 | - |
| sec-Butylbenzene | mg/kg | 0.001 | MCERTS | - | - | - | < 0.0010 | - |
| 1,3-Dichlorobenzene | mg/kg | 0.001 | ISO 17025 | - | - | - | < 0.0010 | - |

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| Sample Number | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Depth (m) | | | | 0.10-0.40 | 1.20-1.60 | 3.20-3.60 | 4.50-6.00 | 0.30-0.60 |
| Date Sampled | | | | 16/02/2021 | 16/02/2021 | 16/02/2021 | 16/02/2021 | 18/02/2021 |
| Time Taken | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| **Analytical Parameter (Soil Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | | | | | |
| p-Isopropyltoluene | mg/kg | 0.001 | ISO 17025 | - | - | - | 0.07 | - |
| 1,2-Dichlorobenzene | mg/kg | 0.001 | MCERTS | - | - | - | < 0.0010 | - |
| 1,4-Dichlorobenzene | mg/kg | 0.001 | MCERTS | - | - | - | < 0.0010 | - |
| Butylbenzene | mg/kg | 0.001 | MCERTS | - | - | - | < 0.0010 | - |
| 1,2-Dibromo-3-chloropropane | mg/kg | 0.001 | ISO 17025 | - | - | - | < 0.0010 | - |
| 1,2,4-Trichlorobenzene | mg/kg | 0.001 | MCERTS | - | - | - | < 0.0010 | - |
| Hexachlorobutadiene | mg/kg | 0.001 | MCERTS | - | - | - | < 0.0010 | - |
| 1,2,3-Trichlorobenzene | mg/kg | 0.001 | ISO 17025 | - | - | - | < 0.0010 | - |

**SVOCs**

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Aniline | mg/kg | 0.1 | NONE | - | - | - | < 0.1 | - |
| Phenol | mg/kg | 0.2 | ISO 17025 | - | - | - | < 0.2 | - |
| 2-Chlorophenol | mg/kg | 0.1 | MCERTS | - | - | - | < 0.1 | - |
| Bis(2-chloroethyl)ether | mg/kg | 0.2 | MCERTS | - | - | - | < 0.2 | - |
| 1,3-Dichlorobenzene | mg/kg | 0.2 | MCERTS | - | - | - | < 0.2 | - |
| 1,2-Dichlorobenzene | mg/kg | 0.1 | MCERTS | - | - | - | < 0.1 | - |
| 1,4-Dichlorobenzene | mg/kg | 0.2 | MCERTS | - | - | - | < 0.2 | - |
| Bis(2-chloroisopropyl)ether | mg/kg | 0.1 | MCERTS | - | - | - | < 0.1 | - |
| 2-Methylphenol | mg/kg | 0.3 | MCERTS | - | - | - | < 0.3 | - |
| Hexachloroethane | mg/kg | 0.05 | MCERTS | - | - | - | < 0.05 | - |
| Nitrobenzene | mg/kg | 0.3 | MCERTS | - | - | - | < 0.3 | - |
| 4-Methylphenol | mg/kg | 0.2 | NONE | - | - | - | < 0.2 | - |
| Isophorone | mg/kg | 0.2 | MCERTS | - | - | - | < 0.2 | - |
| 2-Nitrophenol | mg/kg | 0.3 | MCERTS | - | - | - | < 0.3 | - |
| 2,4-Dimethylphenol | mg/kg | 0.3 | MCERTS | - | - | - | < 0.3 | - |
| Bis(2-chloroethoxy)methane | mg/kg | 0.3 | MCERTS | - | - | - | < 0.3 | - |
| 1,2,4-Trichlorobenzene | mg/kg | 0.3 | MCERTS | - | - | - | < 0.3 | - |
| Naphthalene | mg/kg | 0.05 | MCERTS | - | - | - | 2.0 | - |
| 2,4-Dichlorophenol | mg/kg | 0.3 | MCERTS | - | - | - | < 0.3 | - |
| 4-Chloroaniline | mg/kg | 0.1 | NONE | - | - | - | < 0.1 | - |
| Hexachlorobutadiene | mg/kg | 0.1 | MCERTS | - | - | - | < 0.1 | - |
| 4-Chloro-3-methylphenol | mg/kg | 0.1 | NONE | - | - | - | < 0.1 | - |
| 2,4,6-Trichlorophenol | mg/kg | 0.1 | MCERTS | - | - | - | < 0.1 | - |
| 2,4,5-Trichlorophenol | mg/kg | 0.2 | MCERTS | - | - | - | < 0.2 | - |
| 2-Methylnaphthalene | mg/kg | 0.1 | NONE | - | - | - | 1.6 | - |
| 2-Chloronaphthalene | mg/kg | 0.1 | MCERTS | - | - | - | < 0.1 | - |
| Dimethylphthalate | mg/kg | 0.1 | MCERTS | - | - | - | 1.8 | - |
| 2,6-Dinitrotoluene | mg/kg | 0.1 | MCERTS | - | - | - | < 0.1 | - |
| Acenaphthylene | mg/kg | 0.05 | MCERTS | - | - | - | 0.23 | - |
| Acenaphthene | mg/kg | 0.05 | MCERTS | - | - | - | 4.6 | - |
| 2,4-Dinitrotoluene | mg/kg | 0.2 | MCERTS | - | - | - | < 0.2 | - |
| Dibenzofuran | mg/kg | 0.2 | MCERTS | - | - | - | 3.0 | - |
| 4-Chlorophenyl phenyl ether | mg/kg | 0.3 | ISO 17025 | - | - | - | < 0.3 | - |
| Diethyl phthalate | mg/kg | 0.2 | MCERTS | - | - | - | < 0.2 | - |
| 4-Nitroaniline | mg/kg | 0.2 | MCERTS | - | - | - | < 0.2 | - |
| Fluorene | mg/kg | 0.05 | MCERTS | - | - | - | 4.7 | - |
| Azobenzene | mg/kg | 0.3 | MCERTS | - | - | - | < 0.3 | - |
| Bromophenyl phenyl ether | mg/kg | 0.2 | MCERTS | - | - | - | < 0.2 | - |
| Hexachlorobenzene | mg/kg | 0.3 | MCERTS | - | - | - | < 0.3 | - |
| Phenanthrene | mg/kg | 0.05 | MCERTS | - | - | - | 19 | - |

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**Analytical Report Number: 21-58124**
**Project / Site name: Brockhampton West, Havant**
**Your Order No: DS59329**

| **Lab Sample Number** | | | | 1777625 | 1777626 | 1777627 | 1777628 | 1777629 |
|---|---|---|---|---|---|---|---|---|
| **Sample Reference** | | | | RO108 | RO108 | RO108 | RO108 | RO102 |
| **Sample Number** | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| **Depth (m)** | | | | 0.10-0.40 | 1.20-1.60 | 3.20-3.60 | 4.50-6.00 | 0.30-0.60 |
| **Date Sampled** | | | | 16/02/2021 | 16/02/2021 | 16/02/2021 | 16/02/2021 | 18/02/2021 |
| **Time Taken** | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| **Analytical Parameter (Soil Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | | | | | |
| Anthracene | mg/kg | 0.05 | MCERTS | - | - | - | 3.9 | - |
| Carbazole | mg/kg | 0.3 | MCERTS | - | - | - | 1.3 | - |
| Dibutyl phthalate | mg/kg | 0.2 | MCERTS | - | - | - | < 0.2 | - |
| Anthraquinone | mg/kg | 0.3 | MCERTS | - | - | - | 0.5 | - |
| Fluoranthene | mg/kg | 0.05 | MCERTS | - | - | - | 12 | - |
| Pyrene | mg/kg | 0.05 | MCERTS | - | - | - | 8.7 | - |
| Butyl benzyl phthalate | mg/kg | 0.3 | ISO 17025 | - | - | - | < 0.3 | - |
| Benzo(a)anthracene | mg/kg | 0.05 | MCERTS | - | - | - | 4.1 | - |
| Chrysene | mg/kg | 0.05 | MCERTS | - | - | - | 3.0 | - |
| Benzo(b)fluoranthene | mg/kg | 0.05 | MCERTS | - | - | - | 3.0 | - |
| Benzo(k)fluoranthene | mg/kg | 0.05 | MCERTS | - | - | - | 1.3 | - |
| Benzo(a)pyrene | mg/kg | 0.05 | MCERTS | - | - | - | 2.5 | - |
| Indeno(1,2,3-cd)pyrene | mg/kg | 0.05 | MCERTS | - | - | - | 1.2 | - |
| Dibenz(a,h)anthracene | mg/kg | 0.05 | MCERTS | - | - | - | 0.36 | - |
| Benzo(ghi)perylene | mg/kg | 0.05 | MCERTS | - | - | - | 1.3 | - |

U/S = Unsuitable Sample  I/S = Insufficient Sample

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**Analytical Report Number: 21-58124**
**Project / Site name: Brockhampton West, Havant**
**Your Order No: DS59329**

| Lab Sample Number | | | | 1777630 | 1777631 | 1777632 | 1777633 | 1777634 |
|---|---|---|---|---|---|---|---|---|
| Sample Reference | | | | RO102 | RO102 | RO102 | RO102 | RO102 |
| Sample Number | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Depth (m) | | | | 1.50-1.80 | 2.30-2.40 | 3.00-4.00 | 4.00-5.00 | 9.00-10.00 |
| Date Sampled | | | | 18/02/2021 | 18/02/2021 | 18/02/2021 | 18/02/2021 | 18/02/2021 |
| Time Taken | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| **Analytical Parameter (Soil Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | | | | | |
| Stone Content | % | 0.1 | NONE | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Moisture Content | % | 0.01 | NONE | 18 | 16 | 13 | 20 | 13 |
| Total mass of sample received | kg | 0.001 | NONE | 1.1 | 1.1 | 1.0 | 1.1 | 1.2 |
| Asbestos in Soil | Type | N/A | ISO 17025 | Not-detected | Not-detected | - | Not-detected | - |

**General Inorganics**

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| pH - Automated | pH Units | N/A | MCERTS | 8.1 | 7.5 | - | 7.9 | 8.6 |
| Total Sulphate as SO4 | % | 0.005 | MCERTS | - | - | - | 0.087 | - |
| Water Soluble Sulphate as SO4 16hr extraction (2:1) | mg/kg | 2.5 | MCERTS | 680 | 420 | - | 290 | 330 |
| Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent) | g/l | 0.00125 | MCERTS | 0.34 | 0.21 | - | 0.14 | 0.17 |
| Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent) | mg/l | 1.25 | MCERTS | 341 | 208 | - | 144 | 167 |
| Total Sulphur | % | 0.005 | MCERTS | - | - | - | 0.092 | - |
| Organic Matter | % | 0.1 | MCERTS | - | - | - | - | - |

**Phenols by GC-MS**

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Phenol | mg/kg | 0.2 | NONE | - | - | < 0.2 | - | - |
| 2,4,5-Trichlorophenol | mg/kg | 0.2 | NONE | - | - | < 0.2 | - | - |
| 2,4,6-Trichlorophenol | mg/kg | 0.1 | NONE | - | - | < 0.1 | - | - |
| 2,4-Dichlorophenol | mg/kg | 0.3 | NONE | - | - | < 0.3 | - | - |
| 2,4-Dimethylphenol | mg/kg | 0.3 | NONE | - | - | < 0.3 | - | - |
| 2-Chlorophenol | mg/kg | 0.1 | NONE | - | - | < 0.1 | - | - |
| 2-Methylphenol | mg/kg | 0.3 | MCERTS | - | - | < 0.3 | - | - |
| 2-Nitrophenol | mg/kg | 0.3 | NONE | - | - | < 0.3 | - | - |
| 4-Chloro-3-methylphenol | mg/kg | 0.1 | ISO 17025 | - | - | < 0.1 | - | - |
| 4-Methylphenol | mg/kg | 0.2 | NONE | - | - | < 0.2 | - | - |

**Total Phenols**

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Total Phenols (GC-MS) | mg/kg | 1 | NONE | - | - | < 1.0 | - | - |

**Speciated PAHs**

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Naphthalene | mg/kg | 0.05 | MCERTS | < 0.05 | - | - | 1.3 | < 0.05 |
| Acenaphthylene | mg/kg | 0.05 | MCERTS | < 0.05 | - | - | < 0.05 | < 0.05 |
| Acenaphthene | mg/kg | 0.05 | MCERTS | < 0.05 | - | - | 1.7 | < 0.05 |
| Fluorene | mg/kg | 0.05 | MCERTS | < 0.05 | - | - | 1.9 | < 0.05 |
| Phenanthrene | mg/kg | 0.05 | MCERTS | < 0.05 | - | - | 10 | < 0.05 |
| Anthracene | mg/kg | 0.05 | MCERTS | < 0.05 | - | - | 2.3 | < 0.05 |
| Fluoranthene | mg/kg | 0.05 | MCERTS | < 0.05 | - | - | 8.9 | < 0.05 |
| Pyrene | mg/kg | 0.05 | MCERTS | < 0.05 | - | - | 6.2 | < 0.05 |
| Benzo(a)anthracene | mg/kg | 0.05 | MCERTS | < 0.05 | - | - | 4.1 | < 0.05 |
| Chrysene | mg/kg | 0.05 | MCERTS | < 0.05 | - | - | 3.1 | < 0.05 |
| Benzo(b)fluoranthene | mg/kg | 0.05 | MCERTS | < 0.05 | - | - | 3.4 | < 0.05 |
| Benzo(k)fluoranthene | mg/kg | 0.05 | MCERTS | < 0.05 | - | - | 1.8 | < 0.05 |
| Benzo(a)pyrene | mg/kg | 0.05 | MCERTS | < 0.05 | - | - | 2.7 | < 0.05 |
| Indeno(1,2,3-cd)pyrene | mg/kg | 0.05 | MCERTS | < 0.05 | - | - | 1.3 | < 0.05 |
| Dibenz(a,h)anthracene | mg/kg | 0.05 | MCERTS | < 0.05 | - | - | 0.5 | < 0.05 |
| Benzo(ghi)perylene | mg/kg | 0.05 | MCERTS | < 0.05 | - | - | 1.4 | < 0.05 |

**Total PAH**

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Speciated Total EPA-16 PAHs | mg/kg | 0.8 | MCERTS | < 0.80 | - | - | 50.6 | < 0.80 |

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**Analytical Report Number: 21-58124**
**Project / Site name: Brockhampton West, Havant**
**Your Order No: DS59329**

| Lab Sample Number | | | | 1777630 | 1777631 | 1777632 | 1777633 | 1777634 |
|---|---|---|---|---|---|---|---|---|
| Sample Reference | | | | RO102 | RO102 | RO102 | RO102 | RO102 |
| Sample Number | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Depth (m) | | | | 1.50-1.80 | 2.30-2.40 | 3.00-4.00 | 4.00-5.00 | 9.00-10.00 |
| Date Sampled | | | | 18/02/2021 | 18/02/2021 | 18/02/2021 | 18/02/2021 | 18/02/2021 |
| Time Taken | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| **Analytical Parameter (Soil Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | | | | | |
| **Heavy Metals / Metalloids** | | | | | | | | |
| Arsenic (aqua regia extractable) | mg/kg | 1 | MCERTS | 6.2 | 48 | - | 13 | 14 |
| Cadmium (aqua regia extractable) | mg/kg | 0.2 | MCERTS | 0.4 | 4.2 | - | 2.2 | < 0.2 |
| Chromium (hexavalent) | mg/kg | 1.2 | MCERTS | < 1.2 | < 1.2 | - | < 1.2 | < 1.2 |
| Chromium (III) | mg/kg | 1 | NONE | - | 610 | - | - | - |
| Chromium (aqua regia extractable) | mg/kg | 1 | MCERTS | 21 | 610 | - | 100 | 28 |
| Copper (aqua regia extractable) | mg/kg | 1 | MCERTS | 25 | 1500 | - | 190 | 23 |
| Lead (aqua regia extractable) | mg/kg | 1 | MCERTS | 53 | 160 | - | 45 | 12 |
| Mercury (aqua regia extractable) | mg/kg | 0.3 | MCERTS | < 0.3 | < 0.3 | - | < 0.3 | < 0.3 |
| Nickel (aqua regia extractable) | mg/kg | 1 | MCERTS | 14 | 630 | - | 110 | 33 |
| Zinc (aqua regia extractable) | mg/kg | 1 | MCERTS | 66 | 300 | - | 75 | 42 |
| **Monoaromatics & Oxygenates** | | | | | | | | |
| Benzene | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | - | < 0.001 | - |
| Toluene | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | - | < 0.001 | - |
| Ethylbenzene | mg/kg | 0.001 | MCERTS | < 0.001 | 0.095 | - | < 0.001 | - |
| p & m-xylene | mg/kg | 0.001 | MCERTS | < 0.001 | 0.72 | - | 0.35 | - |
| o-xylene | mg/kg | 0.001 | MCERTS | < 0.001 | 2.5 | - | 0.076 | - |
| MTBE (Methyl Tertiary Butyl Ether) | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | - | < 0.001 | - |
| **Petroleum Hydrocarbons** | | | | | | | | |
| TPH C10 - C40 | mg/kg | 10 | MCERTS | - | - | - | - | 200 |
| TPH-CWG - Aliphatic >EC5 - EC6 | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | - | < 0.001 | - |
| TPH-CWG - Aliphatic >EC6 - EC8 | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | - | < 0.001 | - |
| TPH-CWG - Aliphatic >EC8 - EC10 | mg/kg | 0.001 | MCERTS | < 0.001 | 9.8 | - | 6.7 | - |
| TPH-CWG - Aliphatic >EC10 - EC12 | mg/kg | 1 | MCERTS | < 1.0 | 770 | - | 86 | - |
| TPH-CWG - Aliphatic >EC12 - EC16 | mg/kg | 2 | MCERTS | < 2.0 | 400 | - | 120 | - |
| TPH-CWG - Aliphatic >EC16 - EC21 | mg/kg | 8 | MCERTS | < 8.0 | 680 | - | 170 | - |
| TPH-CWG - Aliphatic >EC21 - EC35 | mg/kg | 8 | MCERTS | < 8.0 | 3800 | - | 2100 | - |
| TPH-CWG - Aliphatic >EC35 - EC40 | mg/kg | 10 | NONE | < 10 | 850 | - | 450 | - |
| TPH-CWG - Aliphatic (EC5 - EC35) | mg/kg | 10 | MCERTS | < 10 | 5700 | - | 2400 | - |
| TPH-CWG - Aromatic >EC5 - EC7 | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | - | < 0.001 | - |
| TPH-CWG - Aromatic >EC7 - EC8 | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | - | < 0.001 | - |
| TPH-CWG - Aromatic >EC8 - EC10 | mg/kg | 0.001 | MCERTS | < 0.001 | 5.6 | - | 3.1 | - |
| TPH-CWG - Aromatic >EC10 - EC12 | mg/kg | 1 | MCERTS | < 1.0 | 45 | - | 43 | - |
| TPH-CWG - Aromatic >EC12 - EC16 | mg/kg | 2 | MCERTS | < 2.0 | 120 | - | 110 | - |
| TPH-CWG - Aromatic >EC16 - EC21 | mg/kg | 10 | MCERTS | < 10 | 230 | - | 220 | - |
| TPH-CWG - Aromatic >EC21 - EC35 | mg/kg | 10 | MCERTS | < 10 | 590 | - | 1000 | - |
| TPH-CWG - Aromatic >EC35 - EC40 | mg/kg | 10 | NONE | < 10 | 82 | - | 93 | - |
| TPH-CWG - Aromatic (EC5 - EC35) | mg/kg | 10 | MCERTS | 13 | 1000 | - | 1400 | - |
| TPH (C35 - C40) | mg/kg | 10 | MCERTS | < 10 | 930 | - | 540 | - |

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**Analytical Report Number: 21-58124**
**Project / Site name: Brockhampton West, Havant**
**Your Order No: DS59329**

| Lab Sample Number | | | | 1777630 | 1777631 | 1777632 | 1777633 | 1777634 |
|---|---|---|---|---|---|---|---|---|
| Sample Reference | | | | RO102 | RO102 | RO102 | RO102 | RO102 |
| Sample Number | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Depth (m) | | | | 1.50-1.80 | 2.30-2.40 | 3.00-4.00 | 4.00-5.00 | 9.00-10.00 |
| Date Sampled | | | | 18/02/2021 | 18/02/2021 | 18/02/2021 | 18/02/2021 | 18/02/2021 |
| Time Taken | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| **Analytical Parameter (Soil Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | | | | | |
| **VOCs** | | | | | | | | |
| Chloromethane | mg/kg | 0.001 | ISO 17025 | - | < 0.0010 | - | - | - |
| Chloroethane | mg/kg | 0.001 | NONE | - | < 0.0010 | - | - | - |
| Bromomethane | mg/kg | 0.001 | ISO 17025 | - | < 0.0010 | - | - | - |
| Vinyl Chloride | mg/kg | 0.001 | NONE | - | < 0.0010 | - | - | - |
| Trichlorofluoromethane | mg/kg | 0.001 | NONE | - | < 0.0010 | - | - | - |
| 1,1-Dichloroethene | mg/kg | 0.001 | NONE | - | < 0.0010 | - | - | - |
| 1,1,2-Trichloro 1,2,2-Trifluoroethane | mg/kg | 0.001 | ISO 17025 | - | < 0.0010 | - | - | - |
| Cis-1,2-dichloroethene | mg/kg | 0.001 | MCERTS | - | < 0.0010 | - | - | - |
| MTBE (Methyl Tertiary Butyl Ether) | mg/kg | 0.001 | MCERTS | - | < 0.0010 | - | - | - |
| 1,1-Dichloroethane | mg/kg | 0.001 | MCERTS | - | < 0.0010 | - | - | - |
| 2,2-Dichloropropane | mg/kg | 0.001 | MCERTS | - | < 0.0010 | - | - | - |
| Trichloromethane | mg/kg | 0.001 | MCERTS | - | < 0.0010 | - | - | - |
| 1,1,1-Trichloroethane | mg/kg | 0.001 | MCERTS | - | < 0.0010 | - | - | - |
| 1,2-Dichloroethane | mg/kg | 0.001 | MCERTS | - | < 0.0010 | - | - | - |
| 1,1-Dichloropropene | mg/kg | 0.001 | MCERTS | - | < 0.0010 | - | - | - |
| Trans-1,2-dichloroethene | mg/kg | 0.001 | NONE | - | < 0.0010 | - | - | - |
| Benzene | mg/kg | 0.001 | MCERTS | - | < 0.0010 | - | - | - |
| Tetrachloromethane | mg/kg | 0.001 | MCERTS | - | < 0.0010 | - | - | - |
| 1,2-Dichloropropane | mg/kg | 0.001 | MCERTS | - | < 0.0010 | - | - | - |
| Trichloroethene | mg/kg | 0.001 | MCERTS | - | < 0.0010 | - | - | - |
| Dibromomethane | mg/kg | 0.001 | MCERTS | - | < 0.0010 | - | - | - |
| Bromodichloromethane | mg/kg | 0.001 | MCERTS | - | < 0.0010 | - | - | - |
| Cis-1,3-dichloropropene | mg/kg | 0.001 | ISO 17025 | - | < 0.0010 | - | - | - |
| Trans-1,3-dichloropropene | mg/kg | 0.001 | ISO 17025 | - | < 0.0010 | - | - | - |
| Toluene | mg/kg | 0.001 | MCERTS | - | < 0.0010 | - | - | - |
| 1,1,2-Trichloroethane | mg/kg | 0.001 | MCERTS | - | < 0.0010 | - | - | - |
| 1,3-Dichloropropane | mg/kg | 0.001 | ISO 17025 | - | < 0.0010 | - | - | - |
| Dibromochloromethane | mg/kg | 0.001 | ISO 17025 | - | < 0.0010 | - | - | - |
| Tetrachloroethene | mg/kg | 0.001 | NONE | - | < 0.0010 | - | - | - |
| 1,2-Dibromoethane | mg/kg | 0.001 | ISO 17025 | - | < 0.0010 | - | - | - |
| Chlorobenzene | mg/kg | 0.001 | MCERTS | - | < 0.0010 | - | - | - |
| 1,1,1,2-Tetrachloroethane | mg/kg | 0.001 | MCERTS | - | < 0.0010 | - | - | - |
| Ethylbenzene | mg/kg | 0.001 | MCERTS | - | 0.095 | - | - | - |
| p & m-Xylene | mg/kg | 0.001 | MCERTS | - | 0.72 | - | - | - |
| Styrene | mg/kg | 0.001 | MCERTS | - | < 0.0010 | - | - | - |
| Tribromomethane | mg/kg | 0.001 | NONE | - | < 0.0010 | - | - | - |
| o-Xylene | mg/kg | 0.001 | MCERTS | - | 2.5 | - | - | - |
| 1,1,2,2-Tetrachloroethane | mg/kg | 0.001 | MCERTS | - | < 0.0010 | - | - | - |
| Isopropylbenzene | mg/kg | 0.001 | MCERTS | - | 0.073 | - | - | - |
| Bromobenzene | mg/kg | 0.001 | MCERTS | - | < 0.0010 | - | - | - |
| n-Propylbenzene | mg/kg | 0.001 | ISO 17025 | - | 0.13 | - | - | - |
| 2-Chlorotoluene | mg/kg | 0.001 | MCERTS | - | < 0.0010 | - | - | - |
| 4-Chlorotoluene | mg/kg | 0.001 | MCERTS | - | < 0.0010 | - | - | - |
| 1,3,5-Trimethylbenzene | mg/kg | 0.001 | ISO 17025 | - | 1.2 | - | - | - |
| tert-Butylbenzene | mg/kg | 0.001 | MCERTS | - | < 0.0010 | - | - | - |
| 1,2,4-Trimethylbenzene | mg/kg | 0.001 | ISO 17025 | - | 0.85 | - | - | - |
| sec-Butylbenzene | mg/kg | 0.001 | MCERTS | - | 0.075 | - | - | - |
| 1,3-Dichlorobenzene | mg/kg | 0.001 | ISO 17025 | - | < 0.0010 | - | - | - |

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**Analytical Report Number: 21-58124**
**Project / Site name: Brockhampton West, Havant**
**Your Order No: DS59329**

| Lab Sample Number | | | | 1777630 | 1777631 | 1777632 | 1777633 | 1777634 |
|---|---|---|---|---|---|---|---|---|
| Sample Reference | | | | RO102 | RO102 | RO102 | RO102 | RO102 |
| Sample Number | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Depth (m) | | | | 1.50-1.80 | 2.30-2.40 | 3.00-4.00 | 4.00-5.00 | 9.00-10.00 |
| Date Sampled | | | | 18/02/2021 | 18/02/2021 | 18/02/2021 | 18/02/2021 | 18/02/2021 |
| Time Taken | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| **Analytical Parameter (Soil Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | | | | | |
| p-Isopropyltoluene | mg/kg | 0.001 | ISO 17025 | - | 0.083 | - | - | - |
| 1,2-Dichlorobenzene | mg/kg | 0.001 | MCERTS | - | < 0.0010 | - | - | - |
| 1,4-Dichlorobenzene | mg/kg | 0.001 | MCERTS | - | < 0.0010 | - | - | - |
| Butylbenzene | mg/kg | 0.001 | MCERTS | - | 0.087 | - | - | - |
| 1,2-Dibromo-3-chloropropane | mg/kg | 0.001 | ISO 17025 | - | < 0.0010 | - | - | - |
| 1,2,4-Trichlorobenzene | mg/kg | 0.001 | MCERTS | - | < 0.0010 | - | - | - |
| Hexachlorobutadiene | mg/kg | 0.001 | MCERTS | - | < 0.0010 | - | - | - |
| 1,2,3-Trichlorobenzene | mg/kg | 0.001 | ISO 17025 | - | < 0.0010 | - | - | - |

**SVOCs**

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Aniline | mg/kg | 0.1 | NONE | - | < 0.1 | - | - | - |
| Phenol | mg/kg | 0.2 | ISO 17025 | - | < 0.2 | - | - | - |
| 2-Chlorophenol | mg/kg | 0.1 | MCERTS | - | < 0.1 | - | - | - |
| Bis(2-chloroethyl)ether | mg/kg | 0.2 | MCERTS | - | < 0.2 | - | - | - |
| 1,3-Dichlorobenzene | mg/kg | 0.2 | MCERTS | - | < 0.2 | - | - | - |
| 1,2-Dichlorobenzene | mg/kg | 0.1 | MCERTS | - | < 0.1 | - | - | - |
| 1,4-Dichlorobenzene | mg/kg | 0.2 | MCERTS | - | < 0.2 | - | - | - |
| Bis(2-chloroisopropyl)ether | mg/kg | 0.1 | MCERTS | - | < 0.1 | - | - | - |
| 2-Methylphenol | mg/kg | 0.3 | MCERTS | - | < 0.3 | - | - | - |
| Hexachloroethane | mg/kg | 0.05 | MCERTS | - | < 0.05 | - | - | - |
| Nitrobenzene | mg/kg | 0.3 | MCERTS | - | < 0.3 | - | - | - |
| 4-Methylphenol | mg/kg | 0.2 | NONE | - | < 0.2 | - | - | - |
| Isophorone | mg/kg | 0.2 | MCERTS | - | < 0.2 | - | - | - |
| 2-Nitrophenol | mg/kg | 0.3 | MCERTS | - | < 0.3 | - | - | - |
| 2,4-Dimethylphenol | mg/kg | 0.3 | MCERTS | - | < 0.3 | - | - | - |
| Bis(2-chloroethoxy)methane | mg/kg | 0.3 | MCERTS | - | < 0.3 | - | - | - |
| 1,2,4-Trichlorobenzene | mg/kg | 0.3 | MCERTS | - | < 0.3 | - | - | - |
| Naphthalene | mg/kg | 0.05 | MCERTS | - | 5.7 | - | - | - |
| 2,4-Dichlorophenol | mg/kg | 0.3 | MCERTS | - | < 0.3 | - | - | - |
| 4-Chloroaniline | mg/kg | 0.1 | NONE | - | < 0.1 | - | - | - |
| Hexachlorobutadiene | mg/kg | 0.1 | MCERTS | - | < 0.1 | - | - | - |
| 4-Chloro-3-methylphenol | mg/kg | 0.1 | NONE | - | < 0.1 | - | - | - |
| 2,4,6-Trichlorophenol | mg/kg | 0.1 | MCERTS | - | < 0.1 | - | - | - |
| 2,4,5-Trichlorophenol | mg/kg | 0.2 | MCERTS | - | < 0.2 | - | - | - |
| 2-Methylnaphthalene | mg/kg | 0.1 | NONE | - | 13 | - | - | - |
| 2-Chloronaphthalene | mg/kg | 0.1 | MCERTS | - | < 0.1 | - | - | - |
| Dimethylphthalate | mg/kg | 0.1 | MCERTS | - | < 0.1 | - | - | - |
| 2,6-Dinitrotoluene | mg/kg | 0.1 | MCERTS | - | < 0.1 | - | - | - |
| Acenaphthylene | mg/kg | 0.05 | MCERTS | - | 0.28 | - | - | - |
| Acenaphthene | mg/kg | 0.05 | MCERTS | - | 2.6 | - | - | - |
| 2,4-Dinitrotoluene | mg/kg | 0.2 | MCERTS | - | < 0.2 | - | - | - |
| Dibenzofuran | mg/kg | 0.2 | MCERTS | - | 1.3 | - | - | - |
| 4-Chlorophenyl phenyl ether | mg/kg | 0.3 | ISO 17025 | - | < 0.3 | - | - | - |
| Diethyl phthalate | mg/kg | 0.2 | MCERTS | - | < 0.2 | - | - | - |
| 4-Nitroaniline | mg/kg | 0.2 | MCERTS | - | < 0.2 | - | - | - |
| Fluorene | mg/kg | 0.05 | MCERTS | - | 2.3 | - | - | - |
| Azobenzene | mg/kg | 0.3 | MCERTS | - | < 0.3 | - | - | - |
| Bromophenyl phenyl ether | mg/kg | 0.2 | MCERTS | - | < 0.2 | - | - | - |
| Hexachlorobenzene | mg/kg | 0.3 | MCERTS | - | < 0.3 | - | - | - |
| Phenanthrene | mg/kg | 0.05 | MCERTS | - | 10 | - | - | - |

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The results included within the report relate only to the sample(s) submitted for testing.

**Analytical Report Number: 21-58124**
**Project / Site name: Brockhampton West, Havant**
**Your Order No: DS59329**

| **Lab Sample Number** | | | | 1777630 | 1777631 | 1777632 | 1777633 | 1777634 |
|---|---|---|---|---|---|---|---|---|
| **Sample Reference** | | | | RO102 | RO102 | RO102 | RO102 | RO102 |
| **Sample Number** | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| **Depth (m)** | | | | 1.50-1.80 | 2.30-2.40 | 3.00-4.00 | 4.00-5.00 | 9.00-10.00 |
| **Date Sampled** | | | | 18/02/2021 | 18/02/2021 | 18/02/2021 | 18/02/2021 | 18/02/2021 |
| **Time Taken** | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| **Analytical Parameter (Soil Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | | | | | |
| Anthracene | mg/kg | 0.05 | MCERTS | - | 2.0 | - | - | - |
| Carbazole | mg/kg | 0.3 | MCERTS | - | 1.4 | - | - | - |
| Dibutyl phthalate | mg/kg | 0.2 | MCERTS | - | 4.0 | - | - | - |
| Anthraquinone | mg/kg | 0.3 | MCERTS | - | < 0.3 | - | - | - |
| Fluoranthene | mg/kg | 0.05 | MCERTS | - | 8.4 | - | - | - |
| Pyrene | mg/kg | 0.05 | MCERTS | - | 6.2 | - | - | - |
| Butyl benzyl phthalate | mg/kg | 0.3 | ISO 17025 | - | < 0.3 | - | - | - |
| Benzo(a)anthracene | mg/kg | 0.05 | MCERTS | - | 3.8 | - | - | - |
| Chrysene | mg/kg | 0.05 | MCERTS | - | 4.1 | - | - | - |
| Benzo(b)fluoranthene | mg/kg | 0.05 | MCERTS | - | 3.8 | - | - | - |
| Benzo(k)fluoranthene | mg/kg | 0.05 | MCERTS | - | 1.9 | - | - | - |
| Benzo(a)pyrene | mg/kg | 0.05 | MCERTS | - | 3.1 | - | - | - |
| Indeno(1,2,3-cd)pyrene | mg/kg | 0.05 | MCERTS | - | 1.5 | - | - | - |
| Dibenz(a,h)anthracene | mg/kg | 0.05 | MCERTS | - | 0.6 | - | - | - |
| Benzo(ghi)perylene | mg/kg | 0.05 | MCERTS | - | 1.7 | - | - | - |

U/S = Unsuitable Sample  I/S = Insufficient Sample

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**Analytical Report Number : 21-58124**
**Project / Site name: Brockhampton West, Havant**

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

| Lab Sample Number | Sample Reference | Sample Number | Depth (m) | Sample Description * |
|---|---|---|---|---|
| 1777625 | RO108 | None Supplied | 0.10-0.40 | Brown clay and sand with gravel and vegetation. |
| 1777626 | RO108 | None Supplied | 1.20-1.60 | Brown loam and clay with gravel. |
| 1777627 | RO108 | None Supplied | 3.20-3.60 | Brown clay and loam with gravel and vegetation. |
| 1777628 | RO108 | None Supplied | 4.50-6.00 | Grey clay and loam with gravel and vegetation. |
| 1777629 | RO102 | None Supplied | 0.30-0.60 | Brown clay and sand with gravel and vegetation. |
| 1777630 | RO102 | None Supplied | 1.50-1.80 | Grey clay and sand with gravel. |
| 1777631 | RO102 | None Supplied | 2.30-2.40 | Brown clay and sand with gravel and plastic. |
| 1777632 | RO102 | None Supplied | 3.00-4.00 | Brown clay and sand with gravel and vegetation. |
| 1777633 | RO102 | None Supplied | 4.00-5.00 | Grey clay and sand with gravel and vegetation. |
| 1777634 | RO102 | None Supplied | 9.00-10.00 | Brown clay and sand with gravel. |

**Analytical Report Number : 21-58124**
**Project / Site name: Brockhampton West, Havant**

**Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)**

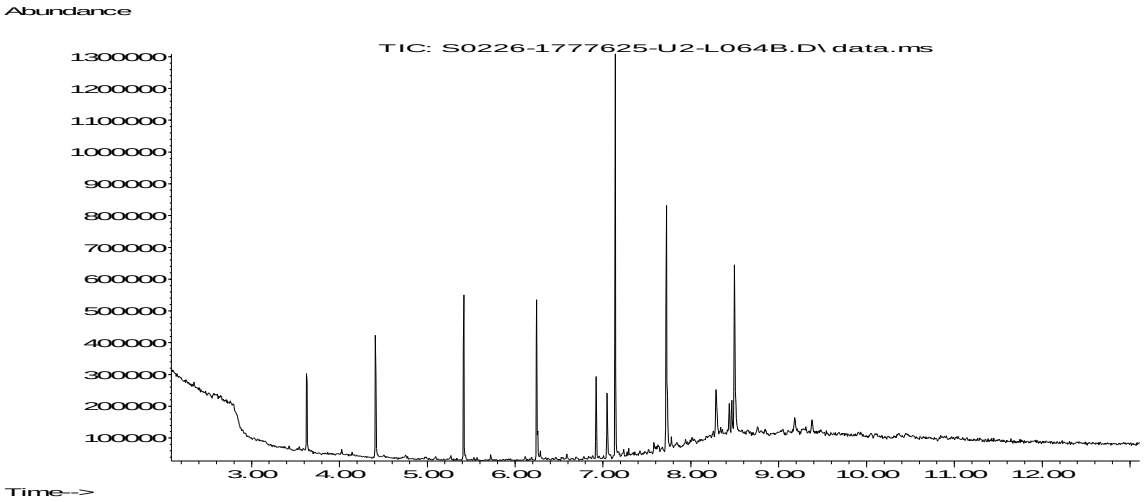
| Analytical Test Name | Analytical Method Description | Analytical Method Reference | Method number | Wet / Dry Analysis | Accreditation Status |
|---|---|---|---|---|---|
| Metals in soil by ICP-OES | Determination of metals in soil by aqua-regia digestion followed by ICP-OES. | In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil. | L038-PL | D | MCERTS |
| Sulphate, water soluble, in soil (16hr extraction) | Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent). | In house method. | L038-PL | D | MCERTS |
| Phenols, speciated, in soil, by GCMS | Determination of speciated phenols in soil by extraction in dichloromethane and hexane followed by GC-MS. | In-house method based on USEPA 8270 | L064-PL | D | NONE |
| Asbestos identification in soil | Asbestos Identification with the use of polarised light microscopy in conjunction with disperion staining techniques. | In house method based on HSG 248 | A001-PL | D | ISO 17025 |
| Hexavalent chromium in soil (Lower Level) | Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry. | In-house method | L080-PL | W | MCERTS |
| Moisture Content | Moisture content, determined gravimetrically. (30 oC) | In house method. | L019-UK/PL | W | NONE |
| Organic matter (Automated) in soil | Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate. | In house method. | L009-PL | D | MCERTS |
| Speciated EPA-16 PAHs in soil | Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards. | In-house method based on USEPA 8270 | L064-PL | D | MCERTS |
| pH in soil (automated) | Determination of pH in soil by addition of water followed by automated electrometric measurement. | In house method. | L099-PL | D | MCERTS |
| Stones content of soil | Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight. | In-house method based on British Standard Methods and MCERTS requirements. | L019-UK/PL | D | NONE |
| Semi-volatile organic compounds in soil | Determination of semi-volatile organic compounds in soil by extraction in dichloromethane and hexane followed by GC-MS. | In-house method based on USEPA 8270 | L064-PL | D | MCERTS |
| TPH Chromatogram in Soil | TPH Chromatogram in Soil. | In-house method | L064-PL | D | NONE |
| TPH in (Soil) | Determination of TPH bands by HS-GC-MS/GC-FID | In-house method, TPH with carbon banding and silica gel split/cleanup. | L076-PL | D | NONE |
| Cr (III) in soil | In-house method by calculation from total Cr and Cr VI. | In-house method by calculation | L080-PL | W | NONE |
| TPHCWG (Soil) | Determination of hexane extractable hydrocarbons in soil by GC-MS/GC-FID. | In-house method with silica gel split/clean up. | L088/76-PL | W | MCERTS |
| Volatile organic compounds in soil | Determination of volatile organic compounds in soil by headspace GC-MS. | In-house method based on USEPA8260 | L073B-PL | W | MCERTS |
| TPH Banding in Soil by FID | Determination of hexane extractable hydrocarbons in soil by GC-FID. | In-house method, TPH with carbon banding and silica gel split/cleanup. | L076-PL | W | MCERTS |

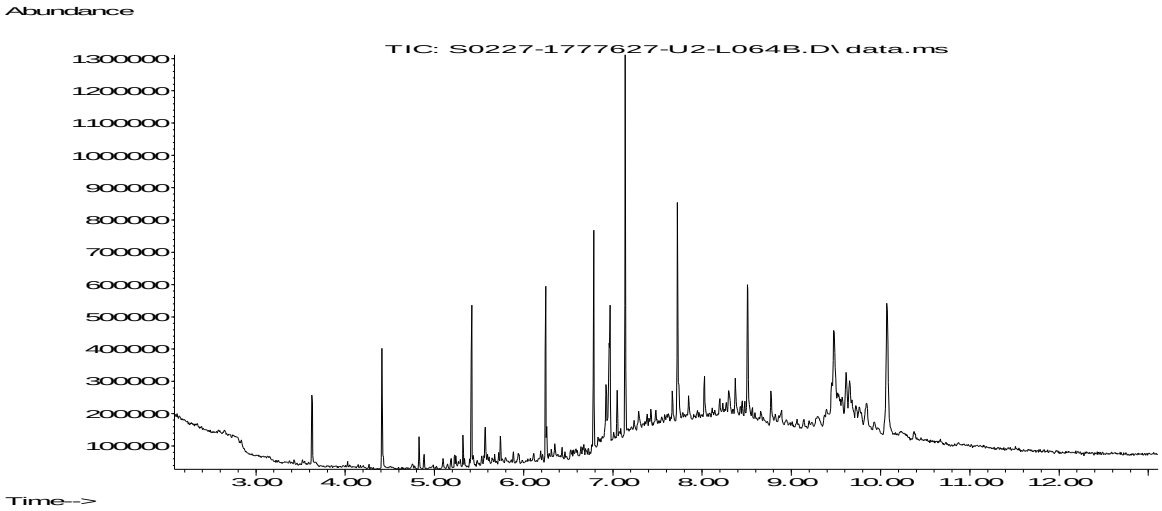
**Analytical Report Number : 21-58124**
**Project / Site name: Brockhampton West, Havant**

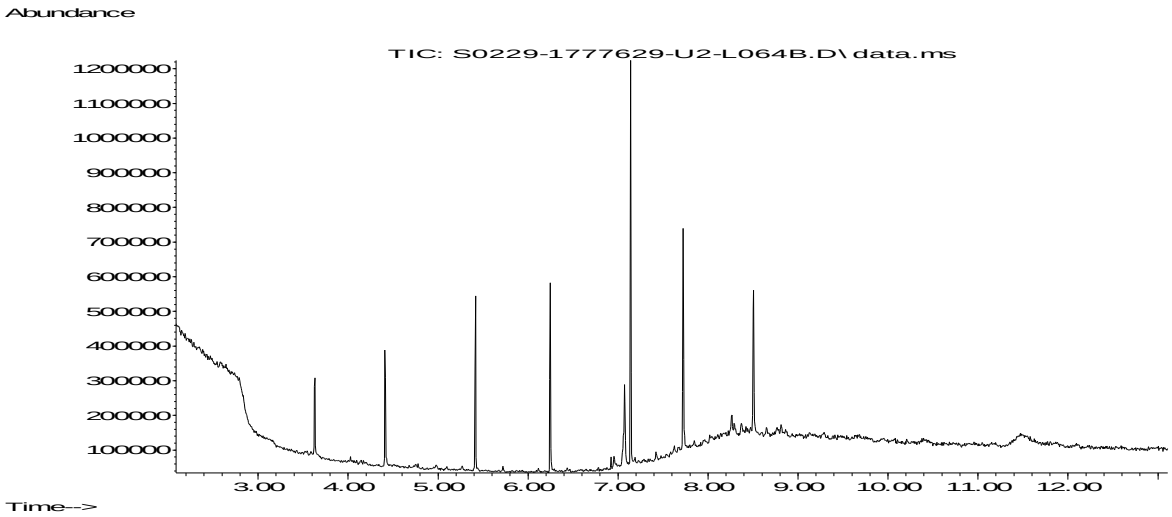
**Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)**

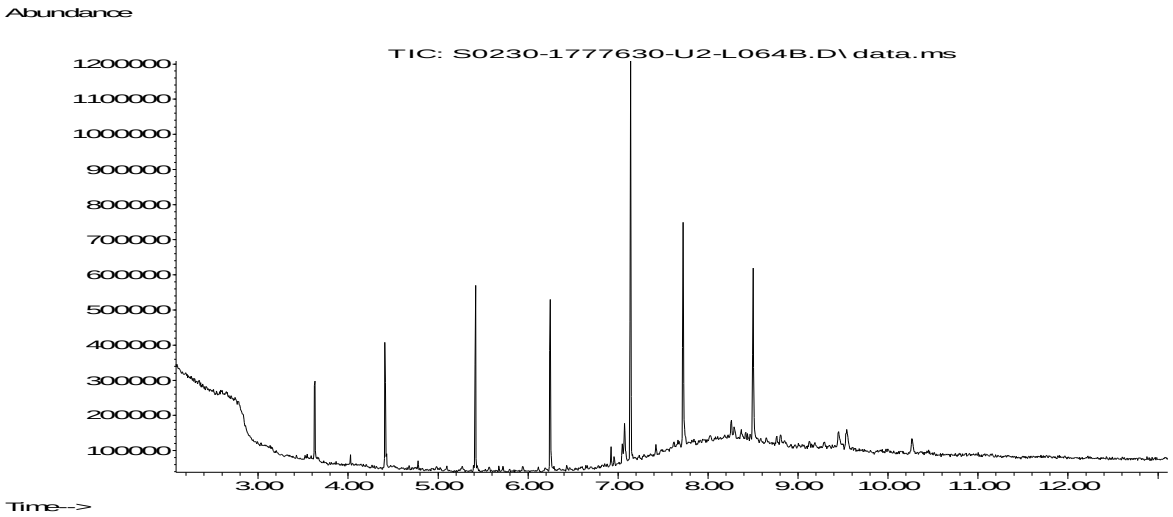
| Analytical Test Name | Analytical Method Description | Analytical Method Reference | Method number | Wet / Dry Analysis | Accreditation Status |
|---|---|---|---|---|---|
| Total Sulphate in soil as % | Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES. | In house method. | L038-PL | D | MCERTS |
| Total Sulphur in soil as % | Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES. | In house method. | L038-PL | D | MCERTS |
| BTEX and MTBE in soil (Monoaromatics) | Determination of BTEX in soil by headspace GC-MS. | In-house method based on USEPA8260 | L073B-PL | W | MCERTS |
| Sulphate, water soluble, in soil | Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent). | In house method. | L038-PL | D | MCERTS |

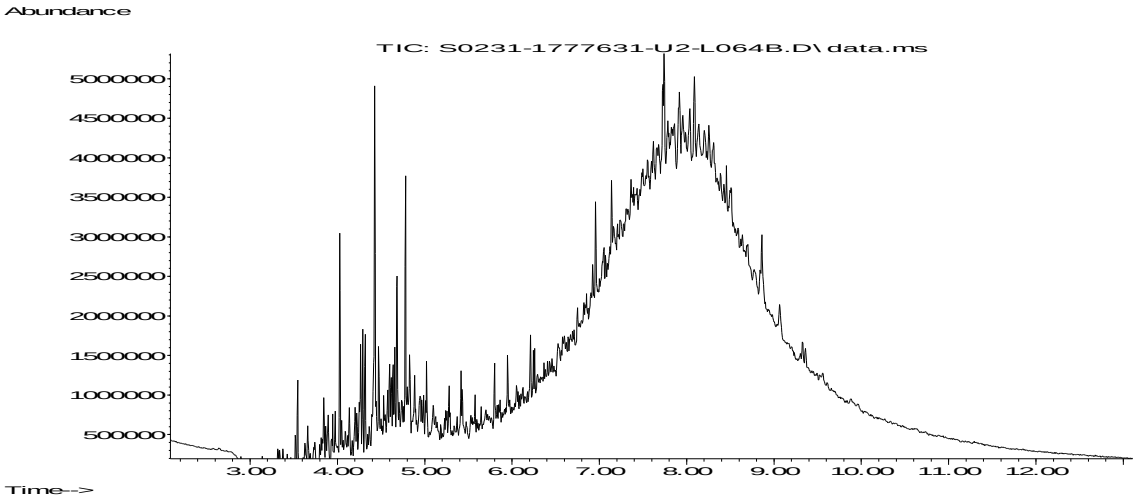
**For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.**
**For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.**
**Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.**

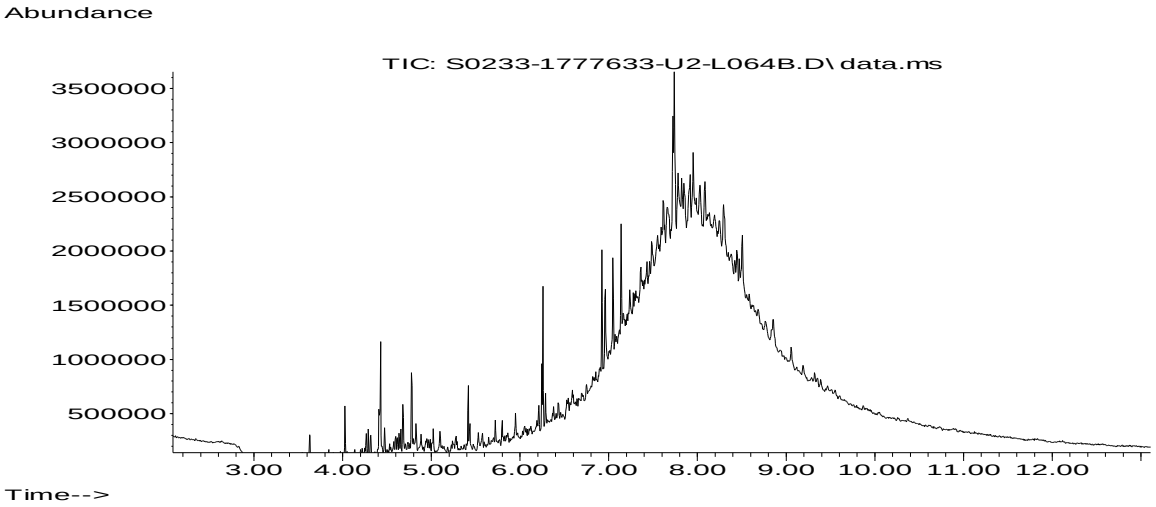

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800000
700000
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300000
200000
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5.00
6.00
7.00
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9.00
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Time-->

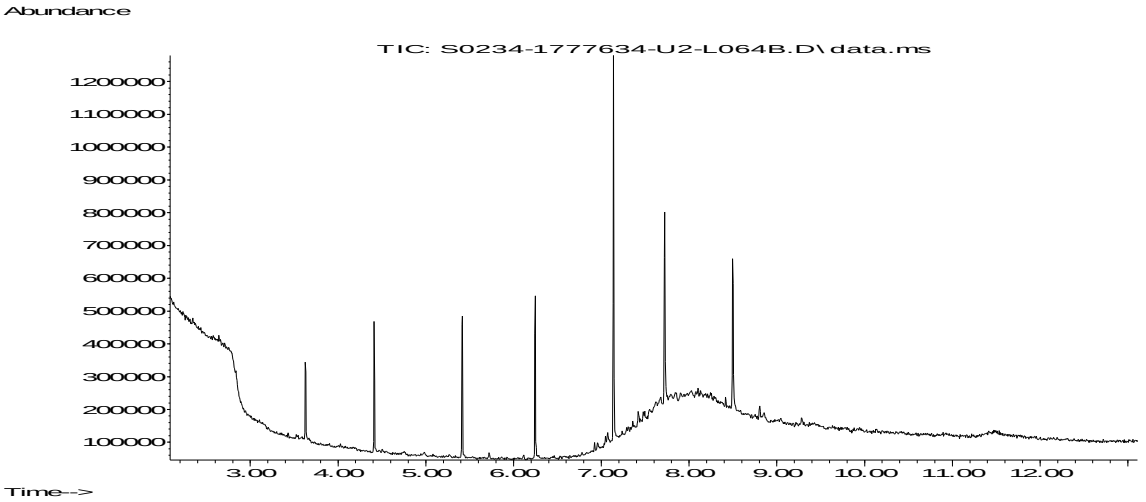

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Abundance
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400000
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11.00
12.00
Time-->


Abundance
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200000
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Time-->


Abundance
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1500000
1000000
500000
3.00
4.00
5.00
6.00
7.00
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9.00
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11.00
12.00
Time-->


Abundance
TIC: S0233-1777633-U2-L064B.D\ data.ms
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2000000
1500000
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500000
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5.00
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7.00
8.00
9.00
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11.00
12.00
Time-->


Abundance
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800000
700000
600000
500000
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300000
200000
100000
3.00
4.00
5.00
6.00
7.00
8.00
9.00
10.00
11.00
12.00
Time-->

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# Analytical Report Number : 21-59059

| | | | |
|---|---|---|---|
| **Project / Site name:** | Brockhampton West Havant | **Samples received on:** | 25/02/2021 |
| **Your job number:** | 19 2099 04 | **Samples instructed on/ Analysis started on:** | 25/02/2021 |
| **Your order number:** | DS59329 | **Analysis completed by:** | 05/03/2021 |
| **Report Issue Number:** | 1 | **Report issued on:** | 05/03/2021 |
| **Samples Analysed:** | 2 soil samples | | |

**Signed:** A. Czerwińska

Agnieszka Czerwińska
Technical Reviewer (Reporting Team)
**For & on behalf of i2 Analytical Ltd.**

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils - 4 weeks from reporting
leachates - 2 weeks from reporting
waters - 2 weeks from reporting
asbestos - 6 months from reporting

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Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement.
Application of uncertainty of measurement would provide a range within which the true result lies.
An estimate of measurement uncertainty can be provided on request.

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The results included within the report are representative of the samples submitted for analysis.

**Analytical Report Number: 21-59059**
**Project / Site name: Brockhampton West Havant**
**Your Order No: DS59329**

| Lab Sample Number | | | | 1783510 | 1783511 |
|---|---|---|---|---|---|
| **Sample Reference** | | | | RO107 | RO107 |
| **Sample Number** | | | | None Supplied | None Supplied |
| **Depth (m)** | | | | 0.10-0.30 | 3.50-4.00 |
| **Date Sampled** | | | | 23/02/2021 | 24/02/2021 |
| **Time Taken** | | | | None Supplied | None Supplied |
| **Analytical Parameter (Soil Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | | |
| Stone Content | % | 0.1 | NONE | < 0.1 | < 0.1 |
| Moisture Content | % | 0.01 | NONE | 25 | 24 |
| Total mass of sample received | kg | 0.001 | NONE | 0.7 | 1 |
| Asbestos in Soil | Type | N/A | ISO 17025 | Not-detected | Not-detected |
| **General Inorganics** | | | | | |
| pH - Automated | pH Units | N/A | MCERTS | 7.9 | 8.9 |
| Total Sulphate as SO4 | % | 0.005 | MCERTS | - | 0.067 |
| Water Soluble Sulphate as SO4 16hr extraction (2:1) | mg/kg | 2.5 | MCERTS | 36 | 370 |
| Water Soluble SO4 16hr extraction (2:1 Leachate Equivale | g/l | 0.00125 | MCERTS | 0.018 | 0.18 |
| Water Soluble SO4 16hr extraction (2:1 Leachate Equivale | mg/l | 1.25 | MCERTS | 18 | 184 |
| Total Sulphur | % | 0.005 | MCERTS | - | 0.054 |
| Organic Matter | % | 0.1 | MCERTS | 8.8 | - |
| **Speciated PAHs** | | | | | |
| Naphthalene | mg/kg | 0.05 | MCERTS | < 0.05 | < 0.05 |
| Acenaphthylene | mg/kg | 0.05 | MCERTS | < 0.05 | < 0.05 |
| Acenaphthene | mg/kg | 0.05 | MCERTS | < 0.05 | < 0.05 |
| Fluorene | mg/kg | 0.05 | MCERTS | < 0.05 | < 0.05 |
| Phenanthrene | mg/kg | 0.05 | MCERTS | 0.32 | 0.69 |
| Anthracene | mg/kg | 0.05 | MCERTS | < 0.05 | < 0.05 |
| Fluoranthene | mg/kg | 0.05 | MCERTS | 0.68 | 0.91 |
| Pyrene | mg/kg | 0.05 | MCERTS | 0.59 | 0.76 |
| Benzo(a)anthracene | mg/kg | 0.05 | MCERTS | 0.4 | < 0.05 |
| Chrysene | mg/kg | 0.05 | MCERTS | 0.38 | < 0.05 |
| Benzo(b)fluoranthene | mg/kg | 0.05 | MCERTS | 0.36 | 0.56 |
| Benzo(k)fluoranthene | mg/kg | 0.05 | MCERTS | 0.29 | 0.29 |
| Benzo(a)pyrene | mg/kg | 0.05 | MCERTS | 0.43 | 0.43 |
| Indeno(1,2,3-cd)pyrene | mg/kg | 0.05 | MCERTS | 0.2 | < 0.05 |
| Dibenz(a,h)anthracene | mg/kg | 0.05 | MCERTS | < 0.05 | < 0.05 |
| Benzo(ghi)perylene | mg/kg | 0.05 | MCERTS | 0.24 | < 0.05 |
| **Total PAH** | | | | | |
| Speciated Total EPA-16 PAHs | mg/kg | 0.8 | MCERTS | 3.89 | 3.64 |
| **Heavy Metals / Metalloids** | | | | | |
| Arsenic (aqua regia extractable) | mg/kg | 1 | MCERTS | 5.6 | 10 |
| Cadmium (aqua regia extractable) | mg/kg | 0.2 | MCERTS | 0.5 | 0.7 |
| Chromium (hexavalent) | mg/kg | 1.2 | MCERTS | < 1.2 | < 1.2 |
| Chromium (aqua regia extractable) | mg/kg | 1 | MCERTS | 14 | 29 |
| Copper (aqua regia extractable) | mg/kg | 1 | MCERTS | 26 | 23 |
| Lead (aqua regia extractable) | mg/kg | 1 | MCERTS | 41 | 54 |
| Mercury (aqua regia extractable) | mg/kg | 0.3 | MCERTS | < 0.3 | < 0.3 |
| Nickel (aqua regia extractable) | mg/kg | 1 | MCERTS | 10 | 24 |
| Zinc (aqua regia extractable) | mg/kg | 1 | MCERTS | 78 | 90 |

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**Analytical Report Number: 21-59059**
**Project / Site name: Brockhampton West Havant**
**Your Order No: DS59329**

| Lab Sample Number | | | | 1783510 | 1783511 |
|---|---|---|---|---|---|
| Sample Reference | | | | RO107 | RO107 |
| Sample Number | | | | None Supplied | None Supplied |
| Depth (m) | | | | 0.10-0.30 | 3.50-4.00 |
| Date Sampled | | | | 23/02/2021 | 24/02/2021 |
| Time Taken | | | | None Supplied | None Supplied |
| **Analytical Parameter (Soil Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | | |
| **Monoaromatics & Oxygenates** | | | | | |
| Benzene | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 |
| Toluene | mg/kg | 0.001 | MCERTS | < 0.001 | 0.004 |
| Ethylbenzene | mg/kg | 0.001 | MCERTS | < 0.001 | 0.056 |
| p & m-xylene | mg/kg | 0.001 | MCERTS | < 0.001 | 0.15 |
| o-xylene | mg/kg | 0.001 | MCERTS | < 0.001 | 0.04 |
| MTBE (Methyl Tertiary Butyl Ether) | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 |
| **Petroleum Hydrocarbons** | | | | | |
| TPH-CWG - Aliphatic >EC5 - EC6 | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 |
| TPH-CWG - Aliphatic >EC6 - EC8 | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 |
| TPH-CWG - Aliphatic >EC8 - EC10 | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 |
| TPH-CWG - Aliphatic >EC10 - EC12 | mg/kg | 1 | MCERTS | < 1.0 | < 1.0 |
| TPH-CWG - Aliphatic >EC12 - EC16 | mg/kg | 2 | MCERTS | < 2.0 | 3.8 |
| TPH-CWG - Aliphatic >EC16 - EC21 | mg/kg | 8 | MCERTS | < 8.0 | 30 |
| TPH-CWG - Aliphatic >EC21 - EC35 | mg/kg | 8 | MCERTS | < 8.0 | 540 |
| TPH-CWG - Aliphatic >EC35 - EC40 | mg/kg | 10 | NONE | < 10 | 78 |
| TPH-CWG - Aliphatic (EC5 - EC35) | mg/kg | 10 | MCERTS | < 10 | 570 |
| TPH-CWG - Aromatic >EC5 - EC7 | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 |
| TPH-CWG - Aromatic >EC7 - EC8 | mg/kg | 0.001 | MCERTS | < 0.001 | 0.004 |
| TPH-CWG - Aromatic >EC8 - EC10 | mg/kg | 0.001 | MCERTS | < 0.001 | 0.3 |
| TPH-CWG - Aromatic >EC10 - EC12 | mg/kg | 1 | MCERTS | < 1.0 | < 1.0 |
| TPH-CWG - Aromatic >EC12 - EC16 | mg/kg | 2 | MCERTS | < 2.0 | < 2.0 |
| TPH-CWG - Aromatic >EC16 - EC21 | mg/kg | 10 | MCERTS | < 10 | < 10 |
| TPH-CWG - Aromatic >EC21 - EC35 | mg/kg | 10 | MCERTS | < 10 | 46 |
| TPH-CWG - Aromatic >EC35 - EC40 | mg/kg | 10 | NONE | < 10 | 17 |
| TPH-CWG - Aromatic (EC5 - EC35) | mg/kg | 10 | MCERTS | < 10 | 51 |
| TPH (C35 - C40) | mg/kg | 10 | MCERTS | < 10 | 95 |

U/S = Unsuitable Sample  I/S = Insufficient Sample

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The results included within the report relate only to the sample(s) submitted for testing.

**Analytical Report Number : 21-59059**
**Project / Site name: Brockhampton West Havant**

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

| Lab Sample Number | Sample Reference | Sample Number | Depth (m) | Sample Description * |
|---|---|---|---|---|
| 1783510 | RO107 | None Supplied | 0.10-0.30 | Brown clay and loam with gravel and vegetation. |
| 1783511 | RO107 | None Supplied | 3.50-4.00 | Brown clay and loam with gravel and vegetation. |

**Analytical Report Number : 21-59059**
**Project / Site name: Brockhampton West Havant**

**Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)**

| Analytical Test Name | Analytical Method Description | Analytical Method Reference | Method number | Wet / Dry Analysis | Accreditation Status |
|---|---|---|---|---|---|
| Sulphate, water soluble, in soil (16hr extraction) | Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent). | In house method. | L038-PL | D | MCERTS |
| Metals in soil by ICP-OES | Determination of metals in soil by aqua-regia digestion followed by ICP-OES. | In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil. | L038-PL | D | MCERTS |
| Asbestos identification in soil | Asbestos Identification with the use of polarised light microscopy in conjunction with disperion staining techniques. | In house method based on HSG 248 | A001-PL | D | ISO 17025 |
| Hexavalent chromium in soil (Lower Level) | Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry. | In-house method | L080-PL | W | MCERTS |
| Moisture Content | Moisture content, determined gravimetrically. (30 oC) | In house method. | L019-UK/PL | W | NONE |
| Organic matter (Automated) in soil | Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate. | In house method. | L009-PL | D | MCERTS |
| Speciated EPA-16 PAHs in soil | Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards. | In-house method based on USEPA 8270 | L064-PL | D | MCERTS |
| pH in soil (automated) | Determination of pH in soil by addition of water followed by automated electrometric measurement. | In house method. | L099-PL | D | MCERTS |
| Stones content of soil | Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight. | In-house method based on British Standard Methods and MCERTS requirements. | L019-UK/PL | D | NONE |
| TPH Chromatogram in Soil | TPH Chromatogram in Soil. | In-house method | L064-PL | D | NONE |
| TPH in (Soil) | Determination of TPH bands by HS-GC-MS/GC-FID | In-house method, TPH with carbon banding and silica gel split/cleanup. | L076-PL | D | NONE |
| TPHCWG (Soil) | Determination of hexane extractable hydrocarbons in soil by GC-MS/GC-FID. | In-house method with silica gel split/clean up. | L088/76-PL | W | MCERTS |
| Total Sulphate in soil as % | Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES. | In house method. | L038-PL | D | MCERTS |
| Total Sulphur in soil as % | Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES. | In house method. | L038-PL | D | MCERTS |
| BTEX and MTBE in soil (Monoaromatics) | Determination of BTEX in soil by headspace GC-MS. | In-house method based on USEPA8260 | L073B-PL | W | MCERTS |
| Sulphate, water soluble, in soil | Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent). | In house method. | L038-PL | D | MCERTS |

**Analytical Report Number : 21-59059**
**Project / Site name: Brockhampton West Havant**

**Water matrix abbreviations: Surface Water (SW)  Potable Water (PW)  Ground Water (GW)**

| Analytical Test Name | Analytical Method Description | Analytical Method Reference | Method number | Wet / Dry Analysis | Accreditation Status |
|---|---|---|---|---|---|

**For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.**
**For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.**
**Soil analytical results are expressed on a dry weight basis.  Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.**

**Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.**

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# Analytical Report Number : 21-60111

Replaces Analytical Report Number: 21-60111, issue no. 1
Additional analysis undertaken.

| | | | |
|---|---|---|---|
| **Project / Site name:** | Brockhampton West, Havant | **Samples received on:** | 01/03/2021 |
| **Your job number:** | 19-2099 04 | **Samples instructed on/ Analysis started on:** | 03/03/2021 |
| **Your order number:** | DS59329 | **Analysis completed by:** | 13/04/2021 |
| **Report Issue Number:** | 2 | **Report issued on:** | 13/04/2021 |
| **Samples Analysed:** | 4 soil samples | | |

**Signed:** _____

Karolina Marek
PL Head of Reporting Team
**For & on behalf of i2 Analytical Ltd.**

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils - 4 weeks from reporting
leachates - 2 weeks from reporting
waters - 2 weeks from reporting
asbestos - 6 months from reporting

Excel copies of reports are only valid when accompanied by this PDF certificate.

Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement.
Application of uncertainty of measurement would provide a range within which the true result lies.
An estimate of measurement uncertainty can be provided on request.

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The results included within the report are representative of the samples submitted for analysis.

**Analytical Report Number: 21-60111**
**Project / Site name: Brockhampton West, Havant**
**Your Order No: DS59329**

| Lab Sample Number | | | | 1789990 | 1789991 | 1789992 | 1789993 |
|---|---|---|---|---|---|---|---|
| Sample Reference | | | | RO103 | RO103 | RO103 | RO103 |
| Sample Number | | | | None Supplied | None Supplied | None Supplied | None Supplied |
| Depth (m) | | | | 1.50-1.80 | 3.10-3.20 | 5.00-6.00 | 13.50-14.00 |
| Date Sampled | | | | 25/02/2021 | 25/02/2021 | 25/02/2021 | 26/02/2021 |
| Time Taken | | | | None Supplied | None Supplied | None Supplied | None Supplied |
| **Analytical Parameter (Soil Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | | | | |
| Stone Content | % | 0.1 | NONE | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Moisture Content | % | 0.01 | NONE | 13 | 16 | 34 | 9.0 |
| Total mass of sample received | kg | 0.001 | NONE | 1.2 | 0.80 | 1.1 | 1.1 |
| Asbestos in Soil | Type | N/A | ISO 17025 | Not-detected | Not-detected | - | - |

**General Inorganics**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| pH - Automated | pH Units | N/A | MCERTS | 8.3 | 9.4 | 8.5 | - |
| Total Sulphate as SO4 | % | 0.005 | MCERTS | 0.144 | - | 0.044 | - |
| Water Soluble Sulphate as SO4 16hr extraction (2:1) | mg/kg | 2.5 | MCERTS | 630 | 820 | 290 | - |
| Water Soluble SO4 16hr extraction (2:1 Leachate Equivale | g/l | 0.00125 | MCERTS | 0.32 | 0.41 | 0.14 | - |
| Water Soluble SO4 16hr extraction (2:1 Leachate Equivale | mg/l | 1.25 | MCERTS | 316 | 408 | 144 | - |
| Total Sulphur | % | 0.005 | MCERTS | 0.219 | - | 0.061 | - |

**Phenols by GC-MS**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Phenol | mg/kg | 0.2 | NONE | - | - | < 0.2 | - |
| 2,4,5-Trichlorophenol | mg/kg | 0.2 | NONE | - | - | < 0.2 | - |
| 2,4,6-Trichlorophenol | mg/kg | 0.1 | NONE | - | - | < 0.1 | - |
| 2,4-Dichlorophenol | mg/kg | 0.3 | NONE | - | - | < 0.3 | - |
| 2,4-Dimethylphenol | mg/kg | 0.3 | NONE | - | - | < 0.3 | - |
| 2-Chlorophenol | mg/kg | 0.1 | NONE | - | - | < 0.1 | - |
| 2-Methylphenol | mg/kg | 0.3 | MCERTS | - | - | < 0.3 | - |
| 2-Nitrophenol | mg/kg | 0.3 | NONE | - | - | < 0.3 | - |
| 4-Chloro-3-methylphenol | mg/kg | 0.1 | ISO 17025 | - | - | < 0.1 | - |
| 4-Methylphenol | mg/kg | 0.2 | NONE | - | - | < 0.2 | - |

**Total Phenols**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Total Phenols (GC-MS) | mg/kg | 1 | NONE | - | - | < 1.0 | - |

**Speciated PAHs**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Naphthalene | mg/kg | 0.05 | MCERTS | 0.08 | - | - | - |
| Acenaphthylene | mg/kg | 0.05 | MCERTS | < 0.05 | - | - | - |
| Acenaphthene | mg/kg | 0.05 | MCERTS | 0.08 | - | - | - |
| Fluorene | mg/kg | 0.05 | MCERTS | 0.09 | - | - | - |
| Phenanthrene | mg/kg | 0.05 | MCERTS | 0.68 | - | - | - |
| Anthracene | mg/kg | 0.05 | MCERTS | 0.15 | - | - | - |
| Fluoranthene | mg/kg | 0.05 | MCERTS | 1.2 | - | - | - |
| Pyrene | mg/kg | 0.05 | MCERTS | 1.1 | - | - | - |
| Benzo(a)anthracene | mg/kg | 0.05 | MCERTS | 0.80 | - | - | - |
| Chrysene | mg/kg | 0.05 | MCERTS | 0.54 | - | - | - |
| Benzo(b)fluoranthene | mg/kg | 0.05 | MCERTS | 0.86 | - | - | - |
| Benzo(k)fluoranthene | mg/kg | 0.05 | MCERTS | 0.43 | - | - | - |
| Benzo(a)pyrene | mg/kg | 0.05 | MCERTS | 0.81 | - | - | - |
| Indeno(1,2,3-cd)pyrene | mg/kg | 0.05 | MCERTS | 0.44 | - | - | - |
| Dibenz(a,h)anthracene | mg/kg | 0.05 | MCERTS | < 0.05 | - | - | - |
| Benzo(ghi)perylene | mg/kg | 0.05 | MCERTS | 0.42 | - | - | - |

**Total PAH**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Speciated Total EPA-16 PAHs | mg/kg | 0.8 | MCERTS | 7.70 | - | - | - |

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**Analytical Report Number: 21-60111**
**Project / Site name: Brockhampton West, Havant**
**Your Order No: DS59329**

| Lab Sample Number | | | | 1789990 | 1789991 | 1789992 | 1789993 |
|---|---|---|---|---|---|---|---|
| Sample Reference | | | | RO103 | RO103 | RO103 | RO103 |
| Sample Number | | | | None Supplied | None Supplied | None Supplied | None Supplied |
| Depth (m) | | | | 1.50-1.80 | 3.10-3.20 | 5.00-6.00 | 13.50-14.00 |
| Date Sampled | | | | 25/02/2021 | 25/02/2021 | 25/02/2021 | 26/02/2021 |
| Time Taken | | | | None Supplied | None Supplied | None Supplied | None Supplied |
| **Analytical Parameter (Soil Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | | | | |
| **Heavy Metals / Metalloids** | | | | | | | |
| Arsenic (aqua regia extractable) | mg/kg | 1 | MCERTS | 10 | 11 | - | - |
| Cadmium (aqua regia extractable) | mg/kg | 0.2 | MCERTS | 2.4 | 0.6 | - | - |
| Chromium (hexavalent) | mg/kg | 1.2 | MCERTS | < 1.2 | < 1.2 | - | - |
| Chromium (III) | mg/kg | 1 | NONE | - | 28 | - | - |
| Chromium (aqua regia extractable) | mg/kg | 1 | MCERTS | 39 | 28 | - | - |
| Copper (aqua regia extractable) | mg/kg | 1 | MCERTS | 70 | 31 | - | - |
| Lead (aqua regia extractable) | mg/kg | 1 | MCERTS | 89 | 67 | - | - |
| Mercury (aqua regia extractable) | mg/kg | 0.3 | MCERTS | < 0.3 | < 0.3 | - | - |
| Nickel (aqua regia extractable) | mg/kg | 1 | MCERTS | 17 | 20 | - | - |
| Zinc (aqua regia extractable) | mg/kg | 1 | MCERTS | 140 | 93 | - | - |
| **Monoaromatics & Oxygenates** | | | | | | | |
| Benzene | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | - | < 0.001 |
| Toluene | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | - | < 0.001 |
| Ethylbenzene | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | - | < 0.001 |
| p & m-xylene | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | - | < 0.001 |
| o-xylene | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | - | < 0.001 |
| MTBE (Methyl Tertiary Butyl Ether) | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | - | < 0.001 |
| **Petroleum Hydrocarbons** | | | | | | | |
| TPH-CWG - Aliphatic >EC5 - EC6 | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | - | < 0.001 |
| TPH-CWG - Aliphatic >EC6 - EC8 | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | - | < 0.001 |
| TPH-CWG - Aliphatic >EC8 - EC10 | mg/kg | 0.001 | MCERTS | < 0.001 | 0.93 | - | < 0.001 |
| TPH-CWG - Aliphatic >EC10 - EC12 | mg/kg | 1 | MCERTS | 7.2 | 11 | - | < 1.0 |
| TPH-CWG - Aliphatic >EC12 - EC16 | mg/kg | 2 | MCERTS | 12 | 32 | - | < 2.0 |
| TPH-CWG - Aliphatic >EC16 - EC21 | mg/kg | 8 | MCERTS | 23 | 78 | - | < 8.0 |
| TPH-CWG - Aliphatic >EC21 - EC35 | mg/kg | 8 | MCERTS | 110 | 390 | - | 25 |
| TPH-CWG - Aliphatic >EC35 - EC40 | mg/kg | 10 | NONE | 32 | 140 | - | < 10 |
| TPH-CWG - Aliphatic (EC5 - EC35) | mg/kg | 10 | MCERTS | 150 | 510 | - | 26 |
| TPH-CWG - Aromatic >EC5 - EC7 | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | - | < 0.001 |
| TPH-CWG - Aromatic >EC7 - EC8 | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | - | < 0.001 |
| TPH-CWG - Aromatic >EC8 - EC10 | mg/kg | 0.001 | MCERTS | < 0.001 | 0.21 | - | < 0.001 |
| TPH-CWG - Aromatic >EC10 - EC12 | mg/kg | 1 | MCERTS | < 1.0 | 2.7 | - | < 1.0 |
| TPH-CWG - Aromatic >EC12 - EC16 | mg/kg | 2 | MCERTS | < 2.0 | 26 | - | < 2.0 |
| TPH-CWG - Aromatic >EC16 - EC21 | mg/kg | 10 | MCERTS | < 10 | 78 | - | < 10 |
| TPH-CWG - Aromatic >EC21 - EC35 | mg/kg | 10 | MCERTS | < 10 | 230 | - | < 10 |
| TPH-CWG - Aromatic >EC35 - EC40 | mg/kg | 10 | NONE | < 10 | 87 | - | < 10 |
| TPH-CWG - Aromatic (EC5 - EC35) | mg/kg | 10 | MCERTS | < 10 | 340 | - | 12 |
| TPH (C35 - C40) | mg/kg | 10 | MCERTS | 32 | 230 | - | < 10 |

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**Analytical Report Number: 21-60111**
**Project / Site name: Brockhampton West, Havant**
**Your Order No: DS59329**

| Lab Sample Number | | | | 1789990 | 1789991 | 1789992 | 1789993 |
|---|---|---|---|---|---|---|---|
| Sample Reference | | | | RO103 | RO103 | RO103 | RO103 |
| Sample Number | | | | None Supplied | None Supplied | None Supplied | None Supplied |
| Depth (m) | | | | 1.50-1.80 | 3.10-3.20 | 5.00-6.00 | 13.50-14.00 |
| Date Sampled | | | | 25/02/2021 | 25/02/2021 | 25/02/2021 | 26/02/2021 |
| Time Taken | | | | None Supplied | None Supplied | None Supplied | None Supplied |
| **Analytical Parameter (Soil Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | | | | |
| **VOCs** | | | | | | | |
| Chloromethane | mg/kg | 0.001 | ISO 17025 | - | < 0.0010 | - | - |
| Chloroethane | mg/kg | 0.001 | NONE | - | < 0.0010 | - | - |
| Bromomethane | mg/kg | 0.001 | ISO 17025 | - | < 0.0010 | - | - |
| Vinyl Chloride | mg/kg | 0.001 | NONE | - | < 0.0010 | - | - |
| Trichlorofluoromethane | mg/kg | 0.001 | NONE | - | < 0.0010 | - | - |
| 1,1-Dichloroethene | mg/kg | 0.001 | NONE | - | < 0.0010 | - | - |
| 1,1,2-Trichloro 1,2,2-Trifluoroethane | mg/kg | 0.001 | ISO 17025 | - | < 0.0010 | - | - |
| Cis-1,2-dichloroethene | mg/kg | 0.001 | MCERTS | - | < 0.0010 | - | - |
| MTBE (Methyl Tertiary Butyl Ether) | mg/kg | 0.001 | MCERTS | - | < 0.0010 | - | - |
| 1,1-Dichloroethane | mg/kg | 0.001 | MCERTS | - | < 0.0010 | - | - |
| 2,2-Dichloropropane | mg/kg | 0.001 | MCERTS | - | < 0.0010 | - | - |
| Trichloromethane | mg/kg | 0.001 | MCERTS | - | < 0.0010 | - | - |
| 1,1,1-Trichloroethane | mg/kg | 0.001 | MCERTS | - | < 0.0010 | - | - |
| 1,2-Dichloroethane | mg/kg | 0.001 | MCERTS | - | < 0.0010 | - | - |
| 1,1-Dichloropropene | mg/kg | 0.001 | MCERTS | - | < 0.0010 | - | - |
| Trans-1,2-dichloroethene | mg/kg | 0.001 | NONE | - | < 0.0010 | - | - |
| Benzene | mg/kg | 0.001 | MCERTS | - | < 0.0010 | - | - |
| Tetrachloromethane | mg/kg | 0.001 | MCERTS | - | < 0.0010 | - | - |
| 1,2-Dichloropropane | mg/kg | 0.001 | MCERTS | - | < 0.0010 | - | - |
| Trichloroethene | mg/kg | 0.001 | MCERTS | - | < 0.0010 | - | - |
| Dibromomethane | mg/kg | 0.001 | MCERTS | - | < 0.0010 | - | - |
| Bromodichloromethane | mg/kg | 0.001 | MCERTS | - | < 0.0010 | - | - |
| Cis-1,3-dichloropropene | mg/kg | 0.001 | ISO 17025 | - | < 0.0010 | - | - |
| Trans-1,3-dichloropropene | mg/kg | 0.001 | ISO 17025 | - | < 0.0010 | - | - |
| Toluene | mg/kg | 0.001 | MCERTS | - | < 0.0010 | - | - |
| 1,1,2-Trichloroethane | mg/kg | 0.001 | MCERTS | - | < 0.0010 | - | - |
| 1,3-Dichloropropane | mg/kg | 0.001 | ISO 17025 | - | < 0.0010 | - | - |
| Dibromochloromethane | mg/kg | 0.001 | ISO 17025 | - | < 0.0010 | - | - |
| Tetrachloroethene | mg/kg | 0.001 | NONE | - | < 0.0010 | - | - |
| 1,2-Dibromoethane | mg/kg | 0.001 | ISO 17025 | - | < 0.0010 | - | - |
| Chlorobenzene | mg/kg | 0.001 | MCERTS | - | < 0.0010 | - | - |
| 1,1,1,2-Tetrachloroethane | mg/kg | 0.001 | MCERTS | - | < 0.0010 | - | - |
| Ethylbenzene | mg/kg | 0.001 | MCERTS | - | < 0.0010 | - | - |
| p & m-Xylene | mg/kg | 0.001 | MCERTS | - | < 0.0010 | - | - |
| Styrene | mg/kg | 0.001 | MCERTS | - | < 0.0010 | - | - |
| Tribromomethane | mg/kg | 0.001 | NONE | - | < 0.0010 | - | - |
| o-Xylene | mg/kg | 0.001 | MCERTS | - | < 0.0010 | - | - |
| 1,1,2,2-Tetrachloroethane | mg/kg | 0.001 | MCERTS | - | < 0.0010 | - | - |
| Isopropylbenzene | mg/kg | 0.001 | MCERTS | - | < 0.0010 | - | - |
| Bromobenzene | mg/kg | 0.001 | MCERTS | - | < 0.0010 | - | - |
| n-Propylbenzene | mg/kg | 0.001 | ISO 17025 | - | 0.18 | - | - |
| 2-Chlorotoluene | mg/kg | 0.001 | MCERTS | - | < 0.0010 | - | - |
| 4-Chlorotoluene | mg/kg | 0.001 | MCERTS | - | < 0.0010 | - | - |
| 1,3,5-Trimethylbenzene | mg/kg | 0.001 | ISO 17025 | - | < 0.0010 | - | - |
| tert-Butylbenzene | mg/kg | 0.001 | MCERTS | - | < 0.0010 | - | - |
| 1,2,4-Trimethylbenzene | mg/kg | 0.001 | ISO 17025 | - | 0.032 | - | - |
| sec-Butylbenzene | mg/kg | 0.001 | MCERTS | - | 0.043 | - | - |
| 1,3-Dichlorobenzene | mg/kg | 0.001 | ISO 17025 | - | < 0.0010 | - | - |
| p-Isopropyltoluene | mg/kg | 0.001 | ISO 17025 | - | < 0.0010 | - | - |
| 1,2-Dichlorobenzene | mg/kg | 0.001 | MCERTS | - | < 0.0010 | - | - |
| 1,4-Dichlorobenzene | mg/kg | 0.001 | MCERTS | - | < 0.0010 | - | - |
| Butylbenzene | mg/kg | 0.001 | MCERTS | - | < 0.0010 | - | - |

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The results included within the report relate only to the sample(s) submitted for testing.

**Analytical Report Number: 21-60111**
**Project / Site name: Brockhampton West, Havant**
**Your Order No: DS59329**

| Lab Sample Number | | | | 1789990 | 1789991 | 1789992 | 1789993 |
|---|---|---|---|---|---|---|---|
| Sample Reference | | | | RO103 | RO103 | RO103 | RO103 |
| Sample Number | | | | None Supplied | None Supplied | None Supplied | None Supplied |
| Depth (m) | | | | 1.50-1.80 | 3.10-3.20 | 5.00-6.00 | 13.50-14.00 |
| Date Sampled | | | | 25/02/2021 | 25/02/2021 | 25/02/2021 | 26/02/2021 |
| Time Taken | | | | None Supplied | None Supplied | None Supplied | None Supplied |
| **Analytical Parameter (Soil Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | | | | |
| 1,2-Dibromo-3-chloropropane | mg/kg | 0.001 | ISO 17025 | - | < 0.0010 | - | - |
| 1,2,4-Trichlorobenzene | mg/kg | 0.001 | MCERTS | - | < 0.0010 | - | - |
| Hexachlorobutadiene | mg/kg | 0.001 | MCERTS | - | < 0.0010 | - | - |
| 1,2,3-Trichlorobenzene | mg/kg | 0.001 | ISO 17025 | - | < 0.0010 | - | - |

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**Analytical Report Number: 21-60111**
**Project / Site name: Brockhampton West, Havant**
**Your Order No: DS59329**

| Lab Sample Number | | | | 1789990 | 1789991 | 1789992 | 1789993 |
|---|---|---|---|---|---|---|---|
| Sample Reference | | | | RO103 | RO103 | RO103 | RO103 |
| Sample Number | | | | None Supplied | None Supplied | None Supplied | None Supplied |
| Depth (m) | | | | 1.50-1.80 | 3.10-3.20 | 5.00-6.00 | 13.50-14.00 |
| Date Sampled | | | | 25/02/2021 | 25/02/2021 | 25/02/2021 | 26/02/2021 |
| Time Taken | | | | None Supplied | None Supplied | None Supplied | None Supplied |
| **Analytical Parameter (Soil Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | | | | |
| **SVOCs** | | | | | | | |
| Aniline | mg/kg | 0.1 | NONE | - | < 0.1 | - | - |
| Phenol | mg/kg | 0.2 | ISO 17025 | - | < 0.2 | - | - |
| 2-Chlorophenol | mg/kg | 0.1 | MCERTS | - | < 0.1 | - | - |
| Bis(2-chloroethyl)ether | mg/kg | 0.2 | MCERTS | - | < 0.2 | - | - |
| 1,3-Dichlorobenzene | mg/kg | 0.2 | MCERTS | - | < 0.2 | - | - |
| 1,2-Dichlorobenzene | mg/kg | 0.1 | MCERTS | - | < 0.1 | - | - |
| 1,4-Dichlorobenzene | mg/kg | 0.2 | MCERTS | - | < 0.2 | - | - |
| Bis(2-chloroisopropyl)ether | mg/kg | 0.1 | MCERTS | - | < 0.1 | - | - |
| 2-Methylphenol | mg/kg | 0.3 | MCERTS | - | < 0.3 | - | - |
| Hexachloroethane | mg/kg | 0.05 | MCERTS | - | < 0.05 | - | - |
| Nitrobenzene | mg/kg | 0.3 | MCERTS | - | < 0.3 | - | - |
| 4-Methylphenol | mg/kg | 0.2 | NONE | - | < 0.2 | - | - |
| Isophorone | mg/kg | 0.2 | MCERTS | - | < 0.2 | - | - |
| 2-Nitrophenol | mg/kg | 0.3 | MCERTS | - | < 0.3 | - | - |
| 2,4-Dimethylphenol | mg/kg | 0.3 | MCERTS | - | < 0.3 | - | - |
| Bis(2-chloroethoxy)methane | mg/kg | 0.3 | MCERTS | - | < 0.3 | - | - |
| 1,2,4-Trichlorobenzene | mg/kg | 0.3 | MCERTS | - | < 0.3 | - | - |
| Naphthalene | mg/kg | 0.05 | MCERTS | - | 1.4 | - | - |
| 2,4-Dichlorophenol | mg/kg | 0.3 | MCERTS | - | < 0.3 | - | - |
| 4-Chloroaniline | mg/kg | 0.1 | NONE | - | < 0.1 | - | - |
| Hexachlorobutadiene | mg/kg | 0.1 | MCERTS | - | < 0.1 | - | - |
| 4-Chloro-3-methylphenol | mg/kg | 0.1 | NONE | - | < 0.1 | - | - |
| 2,4,6-Trichlorophenol | mg/kg | 0.1 | MCERTS | - | < 0.1 | - | - |
| 2,4,5-Trichlorophenol | mg/kg | 0.2 | MCERTS | - | < 0.2 | - | - |
| 2-Methylnaphthalene | mg/kg | 0.1 | NONE | - | 1.2 | - | - |
| 2-Chloronaphthalene | mg/kg | 0.1 | MCERTS | - | < 0.1 | - | - |
| Dimethylphthalate | mg/kg | 0.1 | MCERTS | - | < 0.1 | - | - |
| 2,6-Dinitrotoluene | mg/kg | 0.1 | MCERTS | - | < 0.1 | - | - |
| Acenaphthylene | mg/kg | 0.05 | MCERTS | - | 0.14 | - | - |
| Acenaphthene | mg/kg | 0.05 | MCERTS | - | 3.1 | - | - |
| 2,4-Dinitrotoluene | mg/kg | 0.2 | MCERTS | - | < 0.2 | - | - |
| Dibenzofuran | mg/kg | 0.2 | MCERTS | - | 1.9 | - | - |
| 4-Chlorophenyl phenyl ether | mg/kg | 0.3 | ISO 17025 | - | < 0.3 | - | - |
| Diethyl phthalate | mg/kg | 0.2 | MCERTS | - | < 0.2 | - | - |
| 4-Nitroaniline | mg/kg | 0.2 | MCERTS | - | < 0.2 | - | - |
| Fluorene | mg/kg | 0.05 | MCERTS | - | 3.2 | - | - |
| Azobenzene | mg/kg | 0.3 | MCERTS | - | < 0.3 | - | - |
| Bromophenyl phenyl ether | mg/kg | 0.2 | MCERTS | - | < 0.2 | - | - |
| Hexachlorobenzene | mg/kg | 0.3 | MCERTS | - | < 0.3 | - | - |
| Phenanthrene | mg/kg | 0.05 | MCERTS | - | 15 | - | - |
| Anthracene | mg/kg | 0.05 | MCERTS | - | 3.4 | - | - |
| Carbazole | mg/kg | 0.3 | MCERTS | - | 1.3 | - | - |
| Dibutyl phthalate | mg/kg | 0.2 | MCERTS | - | < 0.2 | - | - |
| Anthraquinone | mg/kg | 0.3 | MCERTS | - | 0.8 | - | - |
| Fluoranthene | mg/kg | 0.05 | MCERTS | - | 17 | - | - |
| Pyrene | mg/kg | 0.05 | MCERTS | - | 14 | - | - |
| Butyl benzyl phthalate | mg/kg | 0.3 | ISO 17025 | - | < 0.3 | - | - |
| Benzo(a)anthracene | mg/kg | 0.05 | MCERTS | - | 7.9 | - | - |
| Chrysene | mg/kg | 0.05 | MCERTS | - | 6.1 | - | - |
| Benzo(b)fluoranthene | mg/kg | 0.05 | MCERTS | - | 8.4 | - | - |
| Benzo(k)fluoranthene | mg/kg | 0.05 | MCERTS | - | 3.3 | - | - |
| Benzo(a)pyrene | mg/kg | 0.05 | MCERTS | - | 7.4 | - | - |

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**Analytical Report Number: 21-60111**
**Project / Site name: Brockhampton West, Havant**
**Your Order No: DS59329**

| Lab Sample Number | | | | 1789990 | 1789991 | 1789992 | 1789993 |
|---|---|---|---|---|---|---|---|
| Sample Reference | | | | RO103 | RO103 | RO103 | RO103 |
| Sample Number | | | | None Supplied | None Supplied | None Supplied | None Supplied |
| Depth (m) | | | | 1.50-1.80 | 3.10-3.20 | 5.00-6.00 | 13.50-14.00 |
| Date Sampled | | | | 25/02/2021 | 25/02/2021 | 25/02/2021 | 26/02/2021 |
| Time Taken | | | | None Supplied | None Supplied | None Supplied | None Supplied |
| **Analytical Parameter (Soil Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | | | | |
| Indeno(1,2,3-cd)pyrene | mg/kg | 0.05 | MCERTS | - | 3.5 | - | - |
| Dibenz(a,h)anthracene | mg/kg | 0.05 | MCERTS | - | 1.1 | - | - |
| Benzo(ghi)perylene | mg/kg | 0.05 | MCERTS | - | 4.1 | - | - |

U/S = Unsuitable Sample  I/S = Insufficient Sample

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**Analytical Report Number : 21-60111**
**Project / Site name: Brockhampton West, Havant**

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

| Lab Sample Number | Sample Reference | Sample Number | Depth (m) | Sample Description * |
|---|---|---|---|---|
| 1789990 | RO103 | None Supplied | 1.50-1.80 | Brown clay and loam with gravel and vegetation. |
| 1789991 | RO103 | None Supplied | 3.10-3.20 | Brown clay and loam with gravel and vegetation. |
| 1789992 | RO103 | None Supplied | 5.00-6.00 | Brown clay and sand with gravel and vegetation. |
| 1789993 | RO103 | None Supplied | 13.50-14.00 | Light brown sand with gravel and chalk. |

**Analytical Report Number : 21-60111**
**Project / Site name: Brockhampton West, Havant**

**Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)**

| Analytical Test Name | Analytical Method Description | Analytical Method Reference | Method number | Wet / Dry Analysis | Accreditation Status |
|---|---|---|---|---|---|
| Metals in soil by ICP-OES | Determination of metals in soil by aqua-regia digestion followed by ICP-OES. | In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil. | L038-PL | D | MCERTS |
| Sulphate, water soluble, in soil (16hr extraction) | Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent). | In house method. | L038-PL | D | MCERTS |
| Phenols, speciated, in soil, by GCMS | Determination of speciated phenols in soil by extraction in dichloromethane and hexane followed by GC-MS. | In-house method based on USEPA 8270 | L064-PL | D | NONE |
| Asbestos identification in soil | Asbestos Identification with the use of polarised light microscopy in conjunction with disperion staining techniques. | In house method based on HSG 248 | A001-PL | D | ISO 17025 |
| Hexavalent chromium in soil (Lower Level) | Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry. | In-house method | L080-PL | W | MCERTS |
| Moisture Content | Moisture content, determined gravimetrically. (30 oC) | In house method. | L019-UK/PL | W | NONE |
| Speciated EPA-16 PAHs in soil | Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards. | In-house method based on USEPA 8270 | L064-PL | D | MCERTS |
| pH in soil (automated) | Determination of pH in soil by addition of water followed by automated electrometric measurement. | In house method. | L099-PL | D | MCERTS |
| Stones content of soil | Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight. | In-house method based on British Standard Methods and MCERTS requirements. | L019-UK/PL | D | NONE |
| Semi-volatile organic compounds in soil | Determination of semi-volatile organic compounds in soil by extraction in dichloromethane and hexane followed by GC-MS. | In-house method based on USEPA 8270 | L064-PL | D | MCERTS |
| TPH Chromatogram in Soil | TPH Chromatogram in Soil. | In-house method | L064-PL | D | NONE |
| TPH in (Soil) | Determination of TPH bands by HS-GC-MS/GC-FID | In-house method, TPH with carbon banding and silica gel split/cleanup. | L076-PL | D | NONE |
| Cr (III) in soil | In-house method by calculation from total Cr and Cr VI. | In-house method by calculation | L080-PL | W | NONE |
| TPHCWG (Soil) | Determination of hexane extractable hydrocarbons in soil by GC-MS/GC-FID. | In-house method with silica gel split/clean up. | L088/76-PL | W | MCERTS |
| Volatile organic compounds in soil | Determination of volatile organic compounds in soil by headspace GC-MS. | In-house method based on USEPA8260 | L073B-PL | W | MCERTS |
| Total Sulphate in soil as % | Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES. | In house method. | L038-PL | D | MCERTS |
| Total Sulphur in soil as % | Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES. | In house method. | L038-PL | D | MCERTS |

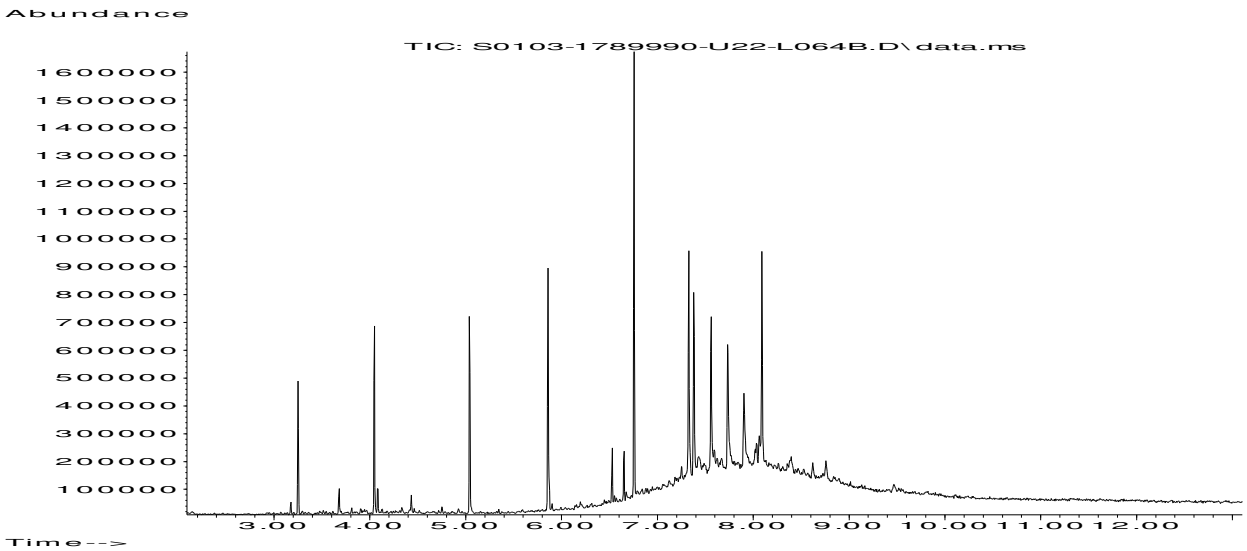
**Analytical Report Number : 21-60111**
**Project / Site name: Brockhampton West, Havant**

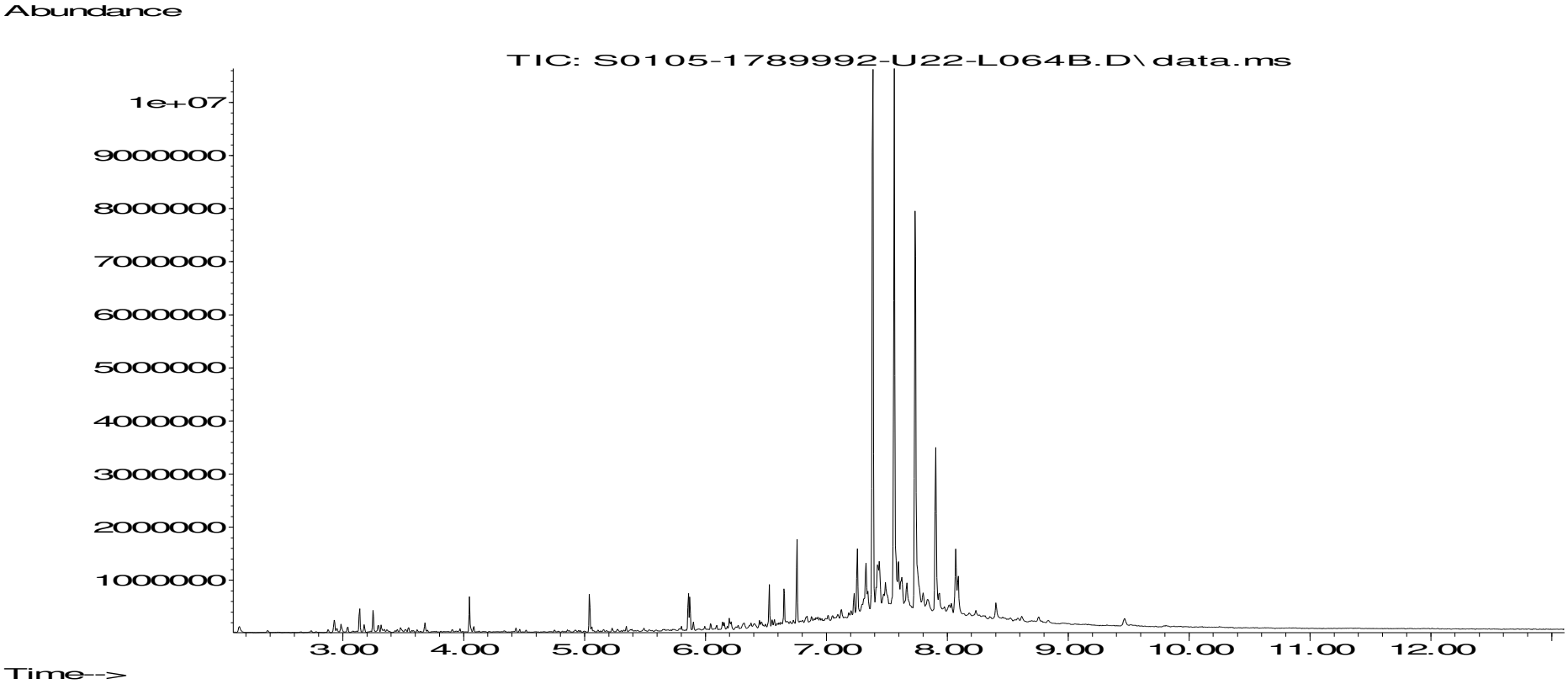
**Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)**

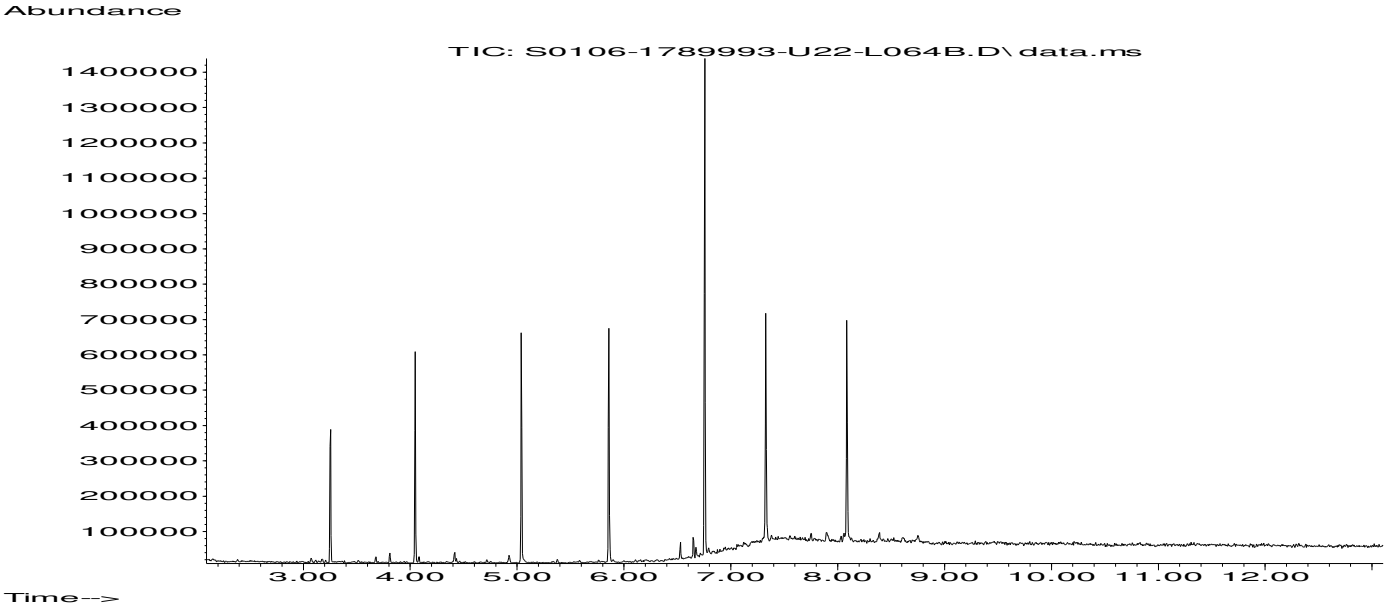
| Analytical Test Name | Analytical Method Description | Analytical Method Reference | Method number | Wet / Dry Analysis | Accreditation Status |
|---|---|---|---|---|---|
| BTEX and MTBE in soil (Monoaromatics) | Determination of BTEX in soil by headspace GC-MS. | In-house method based on USEPA8260 | L073B-PL | W | MCERTS |
| Sulphate, water soluble, in soil | Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent). | In house method. | L038-PL | D | MCERTS |

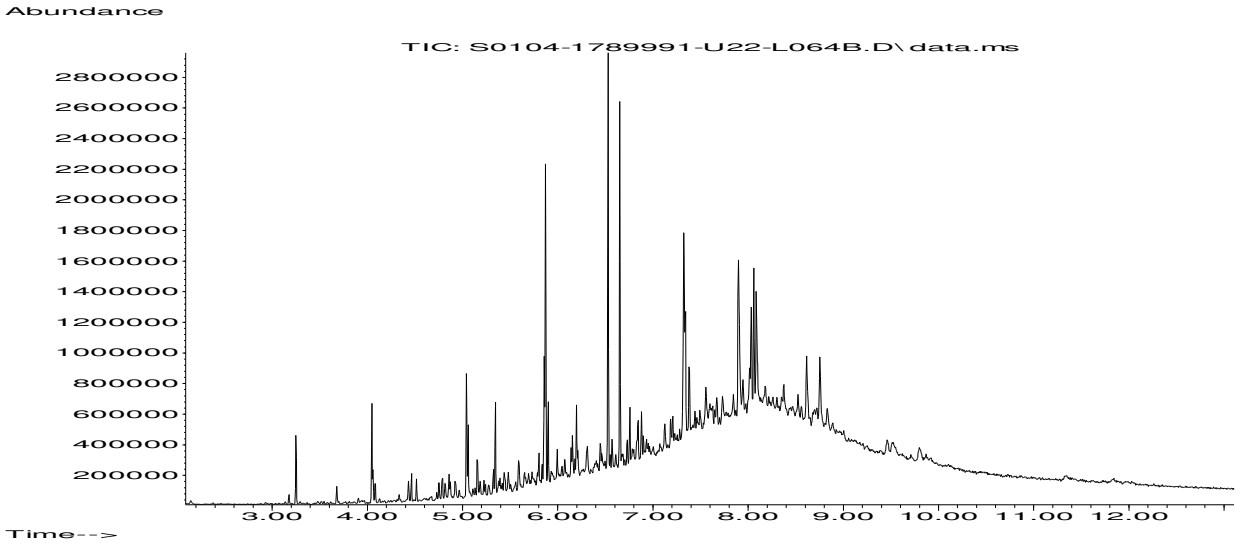
**For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.**
**For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.**
**Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.**

**Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.**


Abundance
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1300000
1200000
1100000
1000000
900000
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600000
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400000
300000
200000
100000
3.00
4.00
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9.00
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11.00
12.00
Time-->


Abundance
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Time-->


Abundance
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Time-->


Abundance
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400000
200000
3.00
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10.00
11.00
12.00
Time-->

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# Analytical Report Number : 21-61329

Replaces Analytical Report Number: 21-61329, issue no. 1
Additional analysis undertaken.

| | | | |
|---|---|---|---|
| **Project / Site name:** | Brockhampton West, Havant | **Samples received on:** | 09/03/2021 |
| **Your job number:** | 19-20099-04 | **Samples instructed on/ Analysis started on:** | 09/03/2021 |
| **Your order number:** | DS59329 | **Analysis completed by:** | 09/04/2021 |
| **Report Issue Number:** | 2 | **Report issued on:** | 09/04/2021 |
| **Samples Analysed:** | 8 soil samples | | |

**Signed:**

Joanna Wawrzeczko
Technical Reviewer (Reporting Team)
**For & on behalf of i2 Analytical Ltd.**

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils - 4 weeks from reporting
leachates - 2 weeks from reporting
waters - 2 weeks from reporting
asbestos - 6 months from reporting

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Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement.
Application of uncertainty of measurement would provide a range within which the true result lies.
An estimate of measurement uncertainty can be provided on request.

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The results included within the report are representative of the samples submitted for analysis.

**Analytical Report Number: 21-61329**
**Project / Site name: Brockhampton West, Havant**
**Your Order No: DS59329**

| Lab Sample Number | | | | 1796275 | 1796276 | 1796277 | 1796278 | 1796279 |
|---|---|---|---|---|---|---|---|---|
| Sample Reference | | | | RO101 | RO101 | RO101 | RO101 | RO109 |
| Sample Number | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Depth (m) | | | | 1.10-1.20 | 2.30-2.60 | 3.00-4.00 | 5.00-6.00 | 0.70-1.10 |
| Date Sampled | | | | 03/03/2021 | 03/03/2021 | 03/03/2021 | 03/03/2021 | 08/03/2021 |
| Time Taken | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| **Analytical Parameter (Soil Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | | | | | |
| Stone Content | % | 0.1 | NONE | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Moisture Content | % | 0.01 | NONE | 15 | 26 | 26 | 23 | 19 |
| Total mass of sample received | kg | 0.001 | NONE | 1.0 | 1.0 | 1.0 | 1.7 | 1.0 |
| Asbestos in Soil | Type | N/A | ISO 17025 | Not-detected | - | Not-detected | - | - |
| **General Inorganics** | | | | | | | | |
| pH - Automated | pH Units | N/A | MCERTS | 7.0 | - | 7.2 | 8.2 | - |
| Total Sulphate as SO4 | % | 0.005 | MCERTS | - | - | 0.101 | 0.178 | - |
| Water Soluble Sulphate as SO4 16hr extraction (2:1) | mg/kg | 2.5 | MCERTS | 670 | - | 850 | 1300 | - |
| Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent) | g/l | 0.00125 | MCERTS | 0.33 | - | 0.42 | 0.65 | - |
| Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent) | mg/l | 1.25 | MCERTS | 334 | - | 424 | 645 | - |
| Total Sulphur | % | 0.005 | MCERTS | - | - | 0.129 | 0.290 | - |
| **Phenols by GC-MS** | | | | | | | | |
| Phenol | mg/kg | 0.2 | NONE | - | < 0.2 | - | - | - |
| 2,4,5-Trichlorophenol | mg/kg | 0.2 | NONE | - | < 0.2 | - | - | - |
| 2,4,6-Trichlorophenol | mg/kg | 0.1 | NONE | - | < 0.1 | - | - | - |
| 2,4-Dichlorophenol | mg/kg | 0.3 | NONE | - | < 0.3 | - | - | - |
| 2,4-Dimethylphenol | mg/kg | 0.3 | NONE | - | < 0.3 | - | - | - |
| 2-Chlorophenol | mg/kg | 0.1 | NONE | - | < 0.1 | - | - | - |
| 2-Methylphenol | mg/kg | 0.3 | MCERTS | - | < 0.3 | - | - | - |
| 2-Nitrophenol | mg/kg | 0.3 | NONE | - | < 0.3 | - | - | - |
| 4-Chloro-3-methylphenol | mg/kg | 0.1 | ISO 17025 | - | < 0.1 | - | - | - |
| 4-Methylphenol | mg/kg | 0.2 | NONE | - | < 0.2 | - | - | - |
| **Total Phenols** | | | | | | | | |
| Total Phenols (GC-MS) | mg/kg | 1 | NONE | - | < 1.0 | - | - | - |
| **Speciated PAHs** | | | | | | | | |
| Naphthalene | mg/kg | 0.05 | MCERTS | < 0.05 | - | - | - | - |
| Acenaphthylene | mg/kg | 0.05 | MCERTS | < 0.05 | - | - | - | - |
| Acenaphthene | mg/kg | 0.05 | MCERTS | < 0.05 | - | - | - | - |
| Fluorene | mg/kg | 0.05 | MCERTS | < 0.05 | - | - | - | - |
| Phenanthrene | mg/kg | 0.05 | MCERTS | 0.32 | - | - | - | - |
| Anthracene | mg/kg | 0.05 | MCERTS | < 0.05 | - | - | - | - |
| Fluoranthene | mg/kg | 0.05 | MCERTS | 0.58 | - | - | - | - |
| Pyrene | mg/kg | 0.05 | MCERTS | 0.54 | - | - | - | - |
| Benzo(a)anthracene | mg/kg | 0.05 | MCERTS | 0.41 | - | - | - | - |
| Chrysene | mg/kg | 0.05 | MCERTS | 0.40 | - | - | - | - |
| Benzo(b)fluoranthene | mg/kg | 0.05 | MCERTS | 0.50 | - | - | - | - |
| Benzo(k)fluoranthene | mg/kg | 0.05 | MCERTS | 0.32 | - | - | - | - |
| Benzo(a)pyrene | mg/kg | 0.05 | MCERTS | 0.47 | - | - | - | - |
| Indeno(1,2,3-cd)pyrene | mg/kg | 0.05 | MCERTS | 0.24 | - | - | - | - |
| Dibenz(a,h)anthracene | mg/kg | 0.05 | MCERTS | < 0.05 | - | - | - | - |
| Benzo(ghi)perylene | mg/kg | 0.05 | MCERTS | 0.31 | - | - | - | - |
| **Total PAH** | | | | | | | | |
| Speciated Total EPA-16 PAHs | mg/kg | 0.8 | MCERTS | 4.09 | - | - | - | - |

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**Analytical Report Number: 21-61329**
**Project / Site name: Brockhampton West, Havant**
**Your Order No: DS59329**

| Lab Sample Number | | | | 1796275 | 1796276 | 1796277 | 1796278 | 1796279 |
|---|---|---|---|---|---|---|---|---|
| Sample Reference | | | | RO101 | RO101 | RO101 | RO101 | RO109 |
| Sample Number | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Depth (m) | | | | 1.10-1.20 | 2.30-2.60 | 3.00-4.00 | 5.00-6.00 | 0.70-1.10 |
| Date Sampled | | | | 03/03/2021 | 03/03/2021 | 03/03/2021 | 03/03/2021 | 08/03/2021 |
| Time Taken | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| **Analytical Parameter (Soil Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | | | | | |
| **Heavy Metals / Metalloids** | | | | | | | | |
| Arsenic (aqua regia extractable) | mg/kg | 1 | MCERTS | 12 | - | 7.7 | - | - |
| Cadmium (aqua regia extractable) | mg/kg | 0.2 | MCERTS | 1.1 | - | 0.6 | - | - |
| Chromium (hexavalent) | mg/kg | 1.2 | MCERTS | < 1.2 | - | < 1.2 | - | - |
| Chromium (III) | mg/kg | 1 | NONE | - | - | 21 | - | - |
| Chromium (aqua regia extractable) | mg/kg | 1 | MCERTS | 28 | - | 21 | - | - |
| Copper (aqua regia extractable) | mg/kg | 1 | MCERTS | 52 | - | 47 | - | - |
| Lead (aqua regia extractable) | mg/kg | 1 | MCERTS | 82 | - | 110 | - | - |
| Mercury (aqua regia extractable) | mg/kg | 0.3 | MCERTS | < 0.3 | - | < 0.3 | - | - |
| Nickel (aqua regia extractable) | mg/kg | 1 | MCERTS | 19 | - | 14 | - | - |
| Zinc (aqua regia extractable) | mg/kg | 1 | MCERTS | 230 | - | 230 | - | - |
| **Monoaromatics & Oxygenates** | | | | | | | | |
| Benzene | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | < 0.001 | - | < 0.001 |
| Toluene | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | 0.11 | - | < 0.001 |
| Ethylbenzene | mg/kg | 0.001 | MCERTS | < 0.001 | 0.032 | 0.19 | - | < 0.001 |
| p & m-xylene | mg/kg | 0.001 | MCERTS | < 0.001 | 0.14 | 0.50 | - | < 0.001 |
| o-xylene | mg/kg | 0.001 | MCERTS | < 0.001 | 0.046 | 0.16 | - | < 0.001 |
| MTBE (Methyl Tertiary Butyl Ether) | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | < 0.001 | - | < 0.001 |
| **Petroleum Hydrocarbons** | | | | | | | | |
| TPH C10 - C40 | mg/kg | 10 | MCERTS | - | - | - | - | - |
| TPH-CWG - Aliphatic >EC5 - EC6 | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | < 0.001 | - | < 0.001 |
| TPH-CWG - Aliphatic >EC6 - EC8 | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | < 0.001 | - | < 0.001 |
| TPH-CWG - Aliphatic >EC8 - EC10 | mg/kg | 0.001 | MCERTS | < 0.001 | 1.3 | < 0.001 | - | < 0.001 |
| TPH-CWG - Aliphatic >EC10 - EC12 | mg/kg | 1 | MCERTS | 1.1 | 2.7 | 28 | - | < 1.0 |
| TPH-CWG - Aliphatic >EC12 - EC16 | mg/kg | 2 | MCERTS | 3.8 | 9.5 | 81 | - | < 2.0 |
| TPH-CWG - Aliphatic >EC16 - EC21 | mg/kg | 8 | MCERTS | 9.5 | 23 | 170 | - | < 8.0 |
| TPH-CWG - Aliphatic >EC21 - EC35 | mg/kg | 8 | MCERTS | 31 | 270 | 2200 | - | < 8.0 |
| TPH-CWG - Aliphatic >EC35 - EC40 | mg/kg | 10 | NONE | < 10 | 38 | 410 | - | < 10 |
| TPH-CWG - Aliphatic (EC5 - EC35) | mg/kg | 10 | MCERTS | 46 | 310 | 2500 | - | < 10 |
| TPH-CWG - Aromatic >EC5 - EC7 | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | < 0.001 | - | < 0.001 |
| TPH-CWG - Aromatic >EC7 - EC8 | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | 0.11 | - | < 0.001 |
| TPH-CWG - Aromatic >EC8 - EC10 | mg/kg | 0.001 | MCERTS | < 0.001 | 0.93 | 2.8 | - | < 0.001 |
| TPH-CWG - Aromatic >EC10 - EC12 | mg/kg | 1 | MCERTS | 1.2 | 3.1 | 21 | - | < 1.0 |
| TPH-CWG - Aromatic >EC12 - EC16 | mg/kg | 2 | MCERTS | < 2.0 | 8.9 | 77 | - | < 2.0 |
| TPH-CWG - Aromatic >EC16 - EC21 | mg/kg | 10 | MCERTS | < 10 | 21 | 220 | - | < 10 |
| TPH-CWG - Aromatic >EC21 - EC35 | mg/kg | 10 | MCERTS | 12 | 110 | 890 | - | < 10 |
| TPH-CWG - Aromatic >EC35 - EC40 | mg/kg | 10 | NONE | < 10 | 34 | 250 | - | < 10 |
| TPH-CWG - Aromatic (EC5 - EC35) | mg/kg | 10 | MCERTS | 18 | 150 | 1200 | - | 12 |
| TPH (C35 - C40) | mg/kg | 10 | MCERTS | < 10 | 72 | 660 | - | < 10 |

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**Analytical Report Number: 21-61329**
**Project / Site name: Brockhampton West, Havant**
**Your Order No: DS59329**

| Lab Sample Number | | | | 1796275 | 1796276 | 1796277 | 1796278 | 1796279 |
|---|---|---|---|---|---|---|---|---|
| Sample Reference | | | | RO101 | RO101 | RO101 | RO101 | RO109 |
| Sample Number | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Depth (m) | | | | 1.10-1.20 | 2.30-2.60 | 3.00-4.00 | 5.00-6.00 | 0.70-1.10 |
| Date Sampled | | | | 03/03/2021 | 03/03/2021 | 03/03/2021 | 03/03/2021 | 08/03/2021 |
| Time Taken | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| **Analytical Parameter (Soil Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | | | | | |
| **VOCs** | | | | | | | | |
| Chloromethane | mg/kg | 0.001 | ISO 17025 | - | - | < 0.0010 | - | - |
| Chloroethane | mg/kg | 0.001 | NONE | - | - | < 0.0010 | - | - |
| Bromomethane | mg/kg | 0.001 | ISO 17025 | - | - | < 0.0010 | - | - |
| Vinyl Chloride | mg/kg | 0.001 | NONE | - | - | < 0.0010 | - | - |
| Trichlorofluoromethane | mg/kg | 0.001 | NONE | - | - | < 0.0010 | - | - |
| 1,1-Dichloroethene | mg/kg | 0.001 | NONE | - | - | < 0.0010 | - | - |
| 1,1,2-Trichloro 1,2,2-Trifluoroethane | mg/kg | 0.001 | ISO 17025 | - | - | < 0.0010 | - | - |
| Cis-1,2-dichloroethene | mg/kg | 0.001 | MCERTS | - | - | < 0.0010 | - | - |
| MTBE (Methyl Tertiary Butyl Ether) | mg/kg | 0.001 | MCERTS | - | - | < 0.0010 | - | - |
| 1,1-Dichloroethane | mg/kg | 0.001 | MCERTS | - | - | 0.34 | - | - |
| 2,2-Dichloropropane | mg/kg | 0.001 | MCERTS | - | - | < 0.0010 | - | - |
| Trichloromethane | mg/kg | 0.001 | MCERTS | - | - | < 0.0010 | - | - |
| 1,1,1-Trichloroethane | mg/kg | 0.001 | MCERTS | - | - | 2.8 | - | - |
| 1,2-Dichloroethane | mg/kg | 0.001 | MCERTS | - | - | < 0.0010 | - | - |
| 1,1-Dichloropropene | mg/kg | 0.001 | MCERTS | - | - | < 0.0010 | - | - |
| Trans-1,2-dichloroethene | mg/kg | 0.001 | NONE | - | - | < 0.0010 | - | - |
| Benzene | mg/kg | 0.001 | MCERTS | - | - | < 0.0010 | - | - |
| Tetrachloromethane | mg/kg | 0.001 | MCERTS | - | - | < 0.0010 | - | - |
| 1,2-Dichloropropane | mg/kg | 0.001 | MCERTS | - | - | < 0.0010 | - | - |
| Trichloroethene | mg/kg | 0.001 | MCERTS | - | - | 0.033 | - | - |
| Dibromomethane | mg/kg | 0.001 | MCERTS | - | - | < 0.0010 | - | - |
| Bromodichloromethane | mg/kg | 0.001 | MCERTS | - | - | < 0.0010 | - | - |
| Cis-1,3-dichloropropene | mg/kg | 0.001 | ISO 17025 | - | - | < 0.0010 | - | - |
| Trans-1,3-dichloropropene | mg/kg | 0.001 | ISO 17025 | - | - | < 0.0010 | - | - |
| Toluene | mg/kg | 0.001 | MCERTS | - | - | 0.10 | - | - |
| 1,1,2-Trichloroethane | mg/kg | 0.001 | MCERTS | - | - | < 0.0010 | - | - |
| 1,3-Dichloropropane | mg/kg | 0.001 | ISO 17025 | - | - | < 0.0010 | - | - |
| Dibromochloromethane | mg/kg | 0.001 | ISO 17025 | - | - | < 0.0010 | - | - |
| Tetrachloroethene | mg/kg | 0.001 | NONE | - | - | 0.021 | - | - |
| 1,2-Dibromoethane | mg/kg | 0.001 | ISO 17025 | - | - | < 0.0010 | - | - |
| Chlorobenzene | mg/kg | 0.001 | MCERTS | - | - | < 0.0010 | - | - |
| 1,1,1,2-Tetrachloroethane | mg/kg | 0.001 | MCERTS | - | - | < 0.0010 | - | - |
| Ethylbenzene | mg/kg | 0.001 | MCERTS | - | - | 0.18 | - | - |
| p & m-Xylene | mg/kg | 0.001 | MCERTS | - | - | 0.50 | - | - |
| Styrene | mg/kg | 0.001 | MCERTS | - | - | < 0.0010 | - | - |
| Tribromomethane | mg/kg | 0.001 | NONE | - | - | < 0.0010 | - | - |
| o-Xylene | mg/kg | 0.001 | MCERTS | - | - | 0.16 | - | - |
| 1,1,2,2-Tetrachloroethane | mg/kg | 0.001 | MCERTS | - | - | < 0.0010 | - | - |
| Isopropylbenzene | mg/kg | 0.001 | MCERTS | - | - | 0.090 | - | - |
| Bromobenzene | mg/kg | 0.001 | MCERTS | - | - | < 0.0010 | - | - |
| n-Propylbenzene | mg/kg | 0.001 | ISO 17025 | - | - | 0.041 | - | - |
| 2-Chlorotoluene | mg/kg | 0.001 | MCERTS | - | - | < 0.0010 | - | - |
| 4-Chlorotoluene | mg/kg | 0.001 | MCERTS | - | - | < 0.0010 | - | - |
| 1,3,5-Trimethylbenzene | mg/kg | 0.001 | ISO 17025 | - | - | 0.21 | - | - |
| tert-Butylbenzene | mg/kg | 0.001 | MCERTS | - | - | < 0.0010 | - | - |
| 1,2,4-Trimethylbenzene | mg/kg | 0.001 | ISO 17025 | - | - | 1.6 | - | - |
| sec-Butylbenzene | mg/kg | 0.001 | MCERTS | - | - | 0.080 | - | - |
| 1,3-Dichlorobenzene | mg/kg | 0.001 | ISO 17025 | - | - | < 0.0010 | - | - |
| p-Isopropyltoluene | mg/kg | 0.001 | ISO 17025 | - | - | 0.10 | - | - |
| 1,2-Dichlorobenzene | mg/kg | 0.001 | MCERTS | - | - | < 0.0010 | - | - |
| 1,4-Dichlorobenzene | mg/kg | 0.001 | MCERTS | - | - | < 0.0010 | - | - |
| Butylbenzene | mg/kg | 0.001 | MCERTS | - | - | < 0.0010 | - | - |

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**Analytical Report Number: 21-61329**
**Project / Site name: Brockhampton West, Havant**
**Your Order No: DS59329**

| Lab Sample Number | | | | 1796275 | 1796276 | 1796277 | 1796278 | 1796279 |
|---|---|---|---|---|---|---|---|---|
| Sample Reference | | | | RO101 | RO101 | RO101 | RO101 | RO109 |
| Sample Number | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Depth (m) | | | | 1.10-1.20 | 2.30-2.60 | 3.00-4.00 | 5.00-6.00 | 0.70-1.10 |
| Date Sampled | | | | 03/03/2021 | 03/03/2021 | 03/03/2021 | 03/03/2021 | 08/03/2021 |
| Time Taken | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| **Analytical Parameter (Soil Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | | | | | |
| 1,2-Dibromo-3-chloropropane | mg/kg | 0.001 | ISO 17025 | - | - | < 0.0010 | - | - |
| 1,2,4-Trichlorobenzene | mg/kg | 0.001 | MCERTS | - | - | < 0.0010 | - | - |
| Hexachlorobutadiene | mg/kg | 0.001 | MCERTS | - | - | < 0.0010 | - | - |
| 1,2,3-Trichlorobenzene | mg/kg | 0.001 | ISO 17025 | - | - | < 0.0010 | - | - |
| **SVOCs** | | | | | | | | |
| Aniline | mg/kg | 0.1 | NONE | - | - | < 0.1 | - | - |
| Phenol | mg/kg | 0.2 | ISO 17025 | - | - | 0.4 | - | - |
| 2-Chlorophenol | mg/kg | 0.1 | MCERTS | - | - | < 0.1 | - | - |
| Bis(2-chloroethyl)ether | mg/kg | 0.2 | MCERTS | - | - | < 0.2 | - | - |
| 1,3-Dichlorobenzene | mg/kg | 0.2 | MCERTS | - | - | < 0.2 | - | - |
| 1,2-Dichlorobenzene | mg/kg | 0.1 | MCERTS | - | - | < 0.1 | - | - |
| 1,4-Dichlorobenzene | mg/kg | 0.2 | MCERTS | - | - | < 0.2 | - | - |
| Bis(2-chloroisopropyl)ether | mg/kg | 0.1 | MCERTS | - | - | < 0.1 | - | - |
| 2-Methylphenol | mg/kg | 0.3 | MCERTS | - | - | 0.6 | - | - |
| Hexachloroethane | mg/kg | 0.05 | MCERTS | - | - | < 0.05 | - | - |
| Nitrobenzene | mg/kg | 0.3 | MCERTS | - | - | < 0.3 | - | - |
| 4-Methylphenol | mg/kg | 0.2 | NONE | - | - | 8.0 | - | - |
| Isophorone | mg/kg | 0.2 | MCERTS | - | - | < 0.2 | - | - |
| 2-Nitrophenol | mg/kg | 0.3 | MCERTS | - | - | < 0.3 | - | - |
| 2,4-Dimethylphenol | mg/kg | 0.3 | MCERTS | - | - | 1.4 | - | - |
| Bis(2-chloroethoxy)methane | mg/kg | 0.3 | MCERTS | - | - | < 0.3 | - | - |
| 1,2,4-Trichlorobenzene | mg/kg | 0.3 | MCERTS | - | - | < 0.3 | - | - |
| Naphthalene | mg/kg | 0.05 | MCERTS | - | - | 1.9 | - | - |
| 2,4-Dichlorophenol | mg/kg | 0.3 | MCERTS | - | - | < 0.3 | - | - |
| 4-Chloroaniline | mg/kg | 0.1 | NONE | - | - | < 0.1 | - | - |
| Hexachlorobutadiene | mg/kg | 0.1 | MCERTS | - | - | < 0.1 | - | - |
| 4-Chloro-3-methylphenol | mg/kg | 0.1 | NONE | - | - | < 0.1 | - | - |
| 2,4,6-Trichlorophenol | mg/kg | 0.1 | MCERTS | - | - | < 0.1 | - | - |
| 2,4,5-Trichlorophenol | mg/kg | 0.2 | MCERTS | - | - | < 0.2 | - | - |
| 2-Methylnaphthalene | mg/kg | 0.1 | NONE | - | - | 1.7 | - | - |
| 2-Chloronaphthalene | mg/kg | 0.1 | MCERTS | - | - | < 0.1 | - | - |
| Dimethylphthalate | mg/kg | 0.1 | MCERTS | - | - | < 0.1 | - | - |
| 2,6-Dinitrotoluene | mg/kg | 0.1 | MCERTS | - | - | < 0.1 | - | - |
| Acenaphthylene | mg/kg | 0.05 | MCERTS | - | - | 0.34 | - | - |
| Acenaphthene | mg/kg | 0.05 | MCERTS | - | - | 6.0 | - | - |
| 2,4-Dinitrotoluene | mg/kg | 0.2 | MCERTS | - | - | < 0.2 | - | - |
| Dibenzofuran | mg/kg | 0.2 | MCERTS | - | - | 3.3 | - | - |
| 4-Chlorophenyl phenyl ether | mg/kg | 0.3 | ISO 17025 | - | - | < 0.3 | - | - |
| Diethyl phthalate | mg/kg | 0.2 | MCERTS | - | - | < 0.2 | - | - |
| 4-Nitroaniline | mg/kg | 0.2 | MCERTS | - | - | < 0.2 | - | - |
| Fluorene | mg/kg | 0.05 | MCERTS | - | - | 6.5 | - | - |
| Azobenzene | mg/kg | 0.3 | MCERTS | - | - | < 0.3 | - | - |
| Bromophenyl phenyl ether | mg/kg | 0.2 | MCERTS | - | - | < 0.2 | - | - |
| Hexachlorobenzene | mg/kg | 0.3 | MCERTS | - | - | < 0.3 | - | - |
| Phenanthrene | mg/kg | 0.05 | MCERTS | - | - | 32 | - | - |
| Anthracene | mg/kg | 0.05 | MCERTS | - | - | 6.7 | - | - |
| Carbazole | mg/kg | 0.3 | MCERTS | - | - | 3.1 | - | - |
| Dibutyl phthalate | mg/kg | 0.2 | MCERTS | - | - | < 0.2 | - | - |
| Anthraquinone | mg/kg | 0.3 | MCERTS | - | - | < 0.3 | - | - |
| Fluoranthene | mg/kg | 0.05 | MCERTS | - | - | 29 | - | - |
| Pyrene | mg/kg | 0.05 | MCERTS | - | - | 22 | - | - |
| Butyl benzyl phthalate | mg/kg | 0.3 | ISO 17025 | - | - | < 0.3 | - | - |

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**Analytical Report Number: 21-61329**
**Project / Site name: Brockhampton West, Havant**
**Your Order No: DS59329**

| Lab Sample Number | | | | 1796275 | 1796276 | 1796277 | 1796278 | 1796279 |
|---|---|---|---|---|---|---|---|---|
| Sample Reference | | | | RO101 | RO101 | RO101 | RO101 | RO109 |
| Sample Number | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Depth (m) | | | | 1.10-1.20 | 2.30-2.60 | 3.00-4.00 | 5.00-6.00 | 0.70-1.10 |
| Date Sampled | | | | 03/03/2021 | 03/03/2021 | 03/03/2021 | 03/03/2021 | 08/03/2021 |
| Time Taken | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| **Analytical Parameter (Soil Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | | | | | |
| Benzo(a)anthracene | mg/kg | 0.05 | MCERTS | - | - | 14 | - | - |
| Chrysene | mg/kg | 0.05 | MCERTS | - | - | 9.6 | - | - |
| Benzo(b)fluoranthene | mg/kg | 0.05 | MCERTS | - | - | 12 | - | - |
| Benzo(k)fluoranthene | mg/kg | 0.05 | MCERTS | - | - | 7.3 | - | - |
| Benzo(a)pyrene | mg/kg | 0.05 | MCERTS | - | - | 9.5 | - | - |
| Indeno(1,2,3-cd)pyrene | mg/kg | 0.05 | MCERTS | - | - | 4.9 | - | - |
| Dibenz(a,h)anthracene | mg/kg | 0.05 | MCERTS | - | - | 1.3 | - | - |
| Benzo(ghi)perylene | mg/kg | 0.05 | MCERTS | - | - | 5.6 | - | - |

U/S = Unsuitable Sample  I/S = Insufficient Sample

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**Analytical Report Number: 21-61329**
**Project / Site name: Brockhampton West, Havant**
**Your Order No: DS59329**

| Lab Sample Number | | | | 1796280 | 1796281 | 1796282 |
|---|---|---|---|---|---|---|
| Sample Reference | | | | RO109 | RO109 | RO109 |
| Sample Number | | | | None Supplied | None Supplied | None Supplied |
| Depth (m) | | | | 2.40-2.60 | 7.00-8.00 | 11.00-11.50 |
| Date Sampled | | | | 08/03/2021 | 08/03/2021 | 08/03/2021 |
| Time Taken | | | | None Supplied | None Supplied | None Supplied |
| **Analytical Parameter (Soil Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | | | |
| Stone Content | % | 0.1 | NONE | < 0.1 | < 0.1 | < 0.1 |
| Moisture Content | % | 0.01 | NONE | 17 | 26 | 8.3 |
| Total mass of sample received | kg | 0.001 | NONE | 1.0 | 1.0 | 1.0 |
| Asbestos in Soil | Type | N/A | ISO 17025 | Not-detected | - | - |
| **General Inorganics** | | | | | | |
| pH - Automated | pH Units | N/A | MCERTS | 7.8 | 8.1 | 8.0 |
| Total Sulphate as SO4 | % | 0.005 | MCERTS | - | 0.140 | - |
| Water Soluble Sulphate as SO4 16hr extraction (2:1) | mg/kg | 2.5 | MCERTS | 480 | 570 | 97 |
| Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent) | g/l | 0.00125 | MCERTS | 0.24 | 0.29 | 0.048 |
| Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent) | mg/l | 1.25 | MCERTS | 238 | 286 | 48.3 |
| Total Sulphur | % | 0.005 | MCERTS | - | 0.192 | - |
| **Phenols by GC-MS** | | | | | | |
| Phenol | mg/kg | 0.2 | NONE | - | - | - |
| 2,4,5-Trichlorophenol | mg/kg | 0.2 | NONE | - | - | - |
| 2,4,6-Trichlorophenol | mg/kg | 0.1 | NONE | - | - | - |
| 2,4-Dichlorophenol | mg/kg | 0.3 | NONE | - | - | - |
| 2,4-Dimethylphenol | mg/kg | 0.3 | NONE | - | - | - |
| 2-Chlorophenol | mg/kg | 0.1 | NONE | - | - | - |
| 2-Methylphenol | mg/kg | 0.3 | MCERTS | - | - | - |
| 2-Nitrophenol | mg/kg | 0.3 | NONE | - | - | - |
| 4-Chloro-3-methylphenol | mg/kg | 0.1 | ISO 17025 | - | - | - |
| 4-Methylphenol | mg/kg | 0.2 | NONE | - | - | - |
| **Total Phenols** | | | | | | |
| Total Phenols (GC-MS) | mg/kg | 1 | NONE | - | - | - |
| **Speciated PAHs** | | | | | | |
| Naphthalene | mg/kg | 0.05 | MCERTS | < 0.05 | - | < 0.05 |
| Acenaphthylene | mg/kg | 0.05 | MCERTS | < 0.05 | - | < 0.05 |
| Acenaphthene | mg/kg | 0.05 | MCERTS | < 0.05 | - | < 0.05 |
| Fluorene | mg/kg | 0.05 | MCERTS | < 0.05 | - | < 0.05 |
| Phenanthrene | mg/kg | 0.05 | MCERTS | 0.43 | - | < 0.05 |
| Anthracene | mg/kg | 0.05 | MCERTS | < 0.05 | - | < 0.05 |
| Fluoranthene | mg/kg | 0.05 | MCERTS | 0.54 | - | < 0.05 |
| Pyrene | mg/kg | 0.05 | MCERTS | 0.52 | - | < 0.05 |
| Benzo(a)anthracene | mg/kg | 0.05 | MCERTS | 0.44 | - | < 0.05 |
| Chrysene | mg/kg | 0.05 | MCERTS | 0.30 | - | < 0.05 |
| Benzo(b)fluoranthene | mg/kg | 0.05 | MCERTS | < 0.05 | - | < 0.05 |
| Benzo(k)fluoranthene | mg/kg | 0.05 | MCERTS | < 0.05 | - | < 0.05 |
| Benzo(a)pyrene | mg/kg | 0.05 | MCERTS | < 0.05 | - | < 0.05 |
| Indeno(1,2,3-cd)pyrene | mg/kg | 0.05 | MCERTS | < 0.05 | - | < 0.05 |
| Dibenz(a,h)anthracene | mg/kg | 0.05 | MCERTS | < 0.05 | - | < 0.05 |
| Benzo(ghi)perylene | mg/kg | 0.05 | MCERTS | < 0.05 | - | < 0.05 |
| **Total PAH** | | | | | | |
| Speciated Total EPA-16 PAHs | mg/kg | 0.8 | MCERTS | 2.23 | - | < 0.80 |

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**Analytical Report Number: 21-61329**
**Project / Site name: Brockhampton West, Havant**
**Your Order No: DS59329**

| Lab Sample Number | | | | 1796280 | 1796281 | 1796282 |
|---|---|---|---|---|---|---|
| Sample Reference | | | | RO109 | RO109 | RO109 |
| Sample Number | | | | None Supplied | None Supplied | None Supplied |
| Depth (m) | | | | 2.40-2.60 | 7.00-8.00 | 11.00-11.50 |
| Date Sampled | | | | 08/03/2021 | 08/03/2021 | 08/03/2021 |
| Time Taken | | | | None Supplied | None Supplied | None Supplied |
| **Analytical Parameter (Soil Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | | | |
| **Heavy Metals / Metalloids** | | | | | | |
| Arsenic (aqua regia extractable) | mg/kg | 1 | MCERTS | 11 | - | 4.7 |
| Cadmium (aqua regia extractable) | mg/kg | 0.2 | MCERTS | 12 | - | 0.9 |
| Chromium (hexavalent) | mg/kg | 1.2 | MCERTS | < 1.2 | - | < 1.2 |
| Chromium (III) | mg/kg | 1 | NONE | - | - | - |
| Chromium (aqua regia extractable) | mg/kg | 1 | MCERTS | 100 | - | 10 |
| Copper (aqua regia extractable) | mg/kg | 1 | MCERTS | 320 | - | 14 |
| Lead (aqua regia extractable) | mg/kg | 1 | MCERTS | 480 | - | 20 |
| Mercury (aqua regia extractable) | mg/kg | 0.3 | MCERTS | 0.8 | - | < 0.3 |
| Nickel (aqua regia extractable) | mg/kg | 1 | MCERTS | 37 | - | 10 |
| Zinc (aqua regia extractable) | mg/kg | 1 | MCERTS | 1600 | - | 170 |
| **Monoaromatics & Oxygenates** | | | | | | |
| Benzene | mg/kg | 0.001 | MCERTS | < 0.001 | - | - |
| Toluene | mg/kg | 0.001 | MCERTS | < 0.001 | - | - |
| Ethylbenzene | mg/kg | 0.001 | MCERTS | < 0.001 | - | - |
| p & m-xylene | mg/kg | 0.001 | MCERTS | < 0.001 | - | - |
| o-xylene | mg/kg | 0.001 | MCERTS | < 0.001 | - | - |
| MTBE (Methyl Tertiary Butyl Ether) | mg/kg | 0.001 | MCERTS | < 0.001 | - | - |
| **Petroleum Hydrocarbons** | | | | | | |
| TPH C10 - C40 | mg/kg | 10 | MCERTS | - | - | 190 |
| TPH-CWG - Aliphatic >EC5 - EC6 | mg/kg | 0.001 | MCERTS | < 0.001 | - | - |
| TPH-CWG - Aliphatic >EC6 - EC8 | mg/kg | 0.001 | MCERTS | < 0.001 | - | - |
| TPH-CWG - Aliphatic >EC8 - EC10 | mg/kg | 0.001 | MCERTS | < 0.001 | - | - |
| TPH-CWG - Aliphatic >EC10 - EC12 | mg/kg | 1 | MCERTS | < 1.0 | - | - |
| TPH-CWG - Aliphatic >EC12 - EC16 | mg/kg | 2 | MCERTS | 14 | - | - |
| TPH-CWG - Aliphatic >EC16 - EC21 | mg/kg | 8 | MCERTS | 24 | - | - |
| TPH-CWG - Aliphatic >EC21 - EC35 | mg/kg | 8 | MCERTS | 100 | - | - |
| TPH-CWG - Aliphatic >EC35 - EC40 | mg/kg | 10 | NONE | 13 | - | - |
| TPH-CWG - Aliphatic (EC5 - EC35) | mg/kg | 10 | MCERTS | 140 | - | - |
| TPH-CWG - Aromatic >EC5 - EC7 | mg/kg | 0.001 | MCERTS | < 0.001 | - | - |
| TPH-CWG - Aromatic >EC7 - EC8 | mg/kg | 0.001 | MCERTS | < 0.001 | - | - |
| TPH-CWG - Aromatic >EC8 - EC10 | mg/kg | 0.001 | MCERTS | < 0.001 | - | - |
| TPH-CWG - Aromatic >EC10 - EC12 | mg/kg | 1 | MCERTS | < 1.0 | - | - |
| TPH-CWG - Aromatic >EC12 - EC16 | mg/kg | 2 | MCERTS | 7.4 | - | - |
| TPH-CWG - Aromatic >EC16 - EC21 | mg/kg | 10 | MCERTS | 29 | - | - |
| TPH-CWG - Aromatic >EC21 - EC35 | mg/kg | 10 | MCERTS | 80 | - | - |
| TPH-CWG - Aromatic >EC35 - EC40 | mg/kg | 10 | NONE | 30 | - | - |
| TPH-CWG - Aromatic (EC5 - EC35) | mg/kg | 10 | MCERTS | 120 | - | - |
| TPH (C35 - C40) | mg/kg | 10 | MCERTS | 43 | - | - |

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**Analytical Report Number: 21-61329**
**Project / Site name: Brockhampton West, Havant**
**Your Order No: DS59329**

| Lab Sample Number | | | | 1796280 | 1796281 | 1796282 |
|---|---|---|---|---|---|---|
| Sample Reference | | | | RO109 | RO109 | RO109 |
| Sample Number | | | | None Supplied | None Supplied | None Supplied |
| Depth (m) | | | | 2.40-2.60 | 7.00-8.00 | 11.00-11.50 |
| Date Sampled | | | | 08/03/2021 | 08/03/2021 | 08/03/2021 |
| Time Taken | | | | None Supplied | None Supplied | None Supplied |
| **Analytical Parameter (Soil Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | | | |
| **VOCs** | | | | | | |
| Chloromethane | mg/kg | 0.001 | ISO 17025 | - | - | - |
| Chloroethane | mg/kg | 0.001 | NONE | - | - | - |
| Bromomethane | mg/kg | 0.001 | ISO 17025 | - | - | - |
| Vinyl Chloride | mg/kg | 0.001 | NONE | - | - | - |
| Trichlorofluoromethane | mg/kg | 0.001 | NONE | - | - | - |
| 1,1-Dichloroethene | mg/kg | 0.001 | NONE | - | - | - |
| 1,1,2-Trichloro 1,2,2-Trifluoroethane | mg/kg | 0.001 | ISO 17025 | - | - | - |
| Cis-1,2-dichloroethene | mg/kg | 0.001 | MCERTS | - | - | - |
| MTBE (Methyl Tertiary Butyl Ether) | mg/kg | 0.001 | MCERTS | - | - | - |
| 1,1-Dichloroethane | mg/kg | 0.001 | MCERTS | - | - | - |
| 2,2-Dichloropropane | mg/kg | 0.001 | MCERTS | - | - | - |
| Trichloromethane | mg/kg | 0.001 | MCERTS | - | - | - |
| 1,1,1-Trichloroethane | mg/kg | 0.001 | MCERTS | - | - | - |
| 1,2-Dichloroethane | mg/kg | 0.001 | MCERTS | - | - | - |
| 1,1-Dichloropropene | mg/kg | 0.001 | MCERTS | - | - | - |
| Trans-1,2-dichloroethene | mg/kg | 0.001 | NONE | - | - | - |
| Benzene | mg/kg | 0.001 | MCERTS | - | - | - |
| Tetrachloromethane | mg/kg | 0.001 | MCERTS | - | - | - |
| 1,2-Dichloropropane | mg/kg | 0.001 | MCERTS | - | - | - |
| Trichloroethene | mg/kg | 0.001 | MCERTS | - | - | - |
| Dibromomethane | mg/kg | 0.001 | MCERTS | - | - | - |
| Bromodichloromethane | mg/kg | 0.001 | MCERTS | - | - | - |
| Cis-1,3-dichloropropene | mg/kg | 0.001 | ISO 17025 | - | - | - |
| Trans-1,3-dichloropropene | mg/kg | 0.001 | ISO 17025 | - | - | - |
| Toluene | mg/kg | 0.001 | MCERTS | - | - | - |
| 1,1,2-Trichloroethane | mg/kg | 0.001 | MCERTS | - | - | - |
| 1,3-Dichloropropane | mg/kg | 0.001 | ISO 17025 | - | - | - |
| Dibromochloromethane | mg/kg | 0.001 | ISO 17025 | - | - | - |
| Tetrachloroethene | mg/kg | 0.001 | NONE | - | - | - |
| 1,2-Dibromoethane | mg/kg | 0.001 | ISO 17025 | - | - | - |
| Chlorobenzene | mg/kg | 0.001 | MCERTS | - | - | - |
| 1,1,1,2-Tetrachloroethane | mg/kg | 0.001 | MCERTS | - | - | - |
| Ethylbenzene | mg/kg | 0.001 | MCERTS | - | - | - |
| p & m-Xylene | mg/kg | 0.001 | MCERTS | - | - | - |
| Styrene | mg/kg | 0.001 | MCERTS | - | - | - |
| Tribromomethane | mg/kg | 0.001 | NONE | - | - | - |
| o-Xylene | mg/kg | 0.001 | MCERTS | - | - | - |
| 1,1,2,2-Tetrachloroethane | mg/kg | 0.001 | MCERTS | - | - | - |
| Isopropylbenzene | mg/kg | 0.001 | MCERTS | - | - | - |
| Bromobenzene | mg/kg | 0.001 | MCERTS | - | - | - |
| n-Propylbenzene | mg/kg | 0.001 | ISO 17025 | - | - | - |
| 2-Chlorotoluene | mg/kg | 0.001 | MCERTS | - | - | - |
| 4-Chlorotoluene | mg/kg | 0.001 | MCERTS | - | - | - |
| 1,3,5-Trimethylbenzene | mg/kg | 0.001 | ISO 17025 | - | - | - |
| tert-Butylbenzene | mg/kg | 0.001 | MCERTS | - | - | - |
| 1,2,4-Trimethylbenzene | mg/kg | 0.001 | ISO 17025 | - | - | - |
| sec-Butylbenzene | mg/kg | 0.001 | MCERTS | - | - | - |
| 1,3-Dichlorobenzene | mg/kg | 0.001 | ISO 17025 | - | - | - |
| p-Isopropyltoluene | mg/kg | 0.001 | ISO 17025 | - | - | - |
| 1,2-Dichlorobenzene | mg/kg | 0.001 | MCERTS | - | - | - |
| 1,4-Dichlorobenzene | mg/kg | 0.001 | MCERTS | - | - | - |
| Butylbenzene | mg/kg | 0.001 | MCERTS | - | - | - |

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**Analytical Report Number: 21-61329**
**Project / Site name: Brockhampton West, Havant**
**Your Order No: DS59329**

| Lab Sample Number | | | | 1796280 | 1796281 | 1796282 |
|---|---|---|---|---|---|---|
| Sample Reference | | | | RO109 | RO109 | RO109 |
| Sample Number | | | | None Supplied | None Supplied | None Supplied |
| Depth (m) | | | | 2.40-2.60 | 7.00-8.00 | 11.00-11.50 |
| Date Sampled | | | | 08/03/2021 | 08/03/2021 | 08/03/2021 |
| Time Taken | | | | None Supplied | None Supplied | None Supplied |
| **Analytical Parameter (Soil Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | | | |
| 1,2-Dibromo-3-chloropropane | mg/kg | 0.001 | ISO 17025 | - | - | - |
| 1,2,4-Trichlorobenzene | mg/kg | 0.001 | MCERTS | - | - | - |
| Hexachlorobutadiene | mg/kg | 0.001 | MCERTS | - | - | - |
| 1,2,3-Trichlorobenzene | mg/kg | 0.001 | ISO 17025 | - | - | - |
| **SVOCs** | | | | | | |
| Aniline | mg/kg | 0.1 | NONE | - | - | - |
| Phenol | mg/kg | 0.2 | ISO 17025 | - | - | - |
| 2-Chlorophenol | mg/kg | 0.1 | MCERTS | - | - | - |
| Bis(2-chloroethyl)ether | mg/kg | 0.2 | MCERTS | - | - | - |
| 1,3-Dichlorobenzene | mg/kg | 0.2 | MCERTS | - | - | - |
| 1,2-Dichlorobenzene | mg/kg | 0.1 | MCERTS | - | - | - |
| 1,4-Dichlorobenzene | mg/kg | 0.2 | MCERTS | - | - | - |
| Bis(2-chloroisopropyl)ether | mg/kg | 0.1 | MCERTS | - | - | - |
| 2-Methylphenol | mg/kg | 0.3 | MCERTS | - | - | - |
| Hexachloroethane | mg/kg | 0.05 | MCERTS | - | - | - |
| Nitrobenzene | mg/kg | 0.3 | MCERTS | - | - | - |
| 4-Methylphenol | mg/kg | 0.2 | NONE | - | - | - |
| Isophorone | mg/kg | 0.2 | MCERTS | - | - | - |
| 2-Nitrophenol | mg/kg | 0.3 | MCERTS | - | - | - |
| 2,4-Dimethylphenol | mg/kg | 0.3 | MCERTS | - | - | - |
| Bis(2-chloroethoxy)methane | mg/kg | 0.3 | MCERTS | - | - | - |
| 1,2,4-Trichlorobenzene | mg/kg | 0.3 | MCERTS | - | - | - |
| Naphthalene | mg/kg | 0.05 | MCERTS | - | - | - |
| 2,4-Dichlorophenol | mg/kg | 0.3 | MCERTS | - | - | - |
| 4-Chloroaniline | mg/kg | 0.1 | NONE | - | - | - |
| Hexachlorobutadiene | mg/kg | 0.1 | MCERTS | - | - | - |
| 4-Chloro-3-methylphenol | mg/kg | 0.1 | NONE | - | - | - |
| 2,4,6-Trichlorophenol | mg/kg | 0.1 | MCERTS | - | - | - |
| 2,4,5-Trichlorophenol | mg/kg | 0.2 | MCERTS | - | - | - |
| 2-Methylnaphthalene | mg/kg | 0.1 | NONE | - | - | - |
| 2-Chloronaphthalene | mg/kg | 0.1 | MCERTS | - | - | - |
| Dimethylphthalate | mg/kg | 0.1 | MCERTS | - | - | - |
| 2,6-Dinitrotoluene | mg/kg | 0.1 | MCERTS | - | - | - |
| Acenaphthylene | mg/kg | 0.05 | MCERTS | - | - | - |
| Acenaphthene | mg/kg | 0.05 | MCERTS | - | - | - |
| 2,4-Dinitrotoluene | mg/kg | 0.2 | MCERTS | - | - | - |
| Dibenzofuran | mg/kg | 0.2 | MCERTS | - | - | - |
| 4-Chlorophenyl phenyl ether | mg/kg | 0.3 | ISO 17025 | - | - | - |
| Diethyl phthalate | mg/kg | 0.2 | MCERTS | - | - | - |
| 4-Nitroaniline | mg/kg | 0.2 | MCERTS | - | - | - |
| Fluorene | mg/kg | 0.05 | MCERTS | - | - | - |
| Azobenzene | mg/kg | 0.3 | MCERTS | - | - | - |
| Bromophenyl phenyl ether | mg/kg | 0.2 | MCERTS | - | - | - |
| Hexachlorobenzene | mg/kg | 0.3 | MCERTS | - | - | - |
| Phenanthrene | mg/kg | 0.05 | MCERTS | - | - | - |
| Anthracene | mg/kg | 0.05 | MCERTS | - | - | - |
| Carbazole | mg/kg | 0.3 | MCERTS | - | - | - |
| Dibutyl phthalate | mg/kg | 0.2 | MCERTS | - | - | - |
| Anthraquinone | mg/kg | 0.3 | MCERTS | - | - | - |
| Fluoranthene | mg/kg | 0.05 | MCERTS | - | - | - |
| Pyrene | mg/kg | 0.05 | MCERTS | - | - | - |
| Butyl benzyl phthalate | mg/kg | 0.3 | ISO 17025 | - | - | - |

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**Analytical Report Number: 21-61329**
**Project / Site name: Brockhampton West, Havant**
**Your Order No: DS59329**

| **Lab Sample Number** | | | | 1796280 | 1796281 | 1796282 |
|---|---|---|---|---|---|---|
| **Sample Reference** | | | | RO109 | RO109 | RO109 |
| **Sample Number** | | | | None Supplied | None Supplied | None Supplied |
| **Depth (m)** | | | | 2.40-2.60 | 7.00-8.00 | 11.00-11.50 |
| **Date Sampled** | | | | 08/03/2021 | 08/03/2021 | 08/03/2021 |
| **Time Taken** | | | | None Supplied | None Supplied | None Supplied |
| **Analytical Parameter (Soil Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | | | |
| Benzo(a)anthracene | mg/kg | 0.05 | MCERTS | - | - | - |
| Chrysene | mg/kg | 0.05 | MCERTS | - | - | - |
| Benzo(b)fluoranthene | mg/kg | 0.05 | MCERTS | - | - | - |
| Benzo(k)fluoranthene | mg/kg | 0.05 | MCERTS | - | - | - |
| Benzo(a)pyrene | mg/kg | 0.05 | MCERTS | - | - | - |
| Indeno(1,2,3-cd)pyrene | mg/kg | 0.05 | MCERTS | - | - | - |
| Dibenz(a,h)anthracene | mg/kg | 0.05 | MCERTS | - | - | - |
| Benzo(ghi)perylene | mg/kg | 0.05 | MCERTS | - | - | - |

U/S = Unsuitable Sample  I/S = Insufficient Sample

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**Analytical Report Number : 21-61329**
**Project / Site name: Brockhampton West, Havant**

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

| Lab Sample Number | Sample Reference | Sample Number | Depth (m) | Sample Description * |
|---|---|---|---|---|
| 1796275 | RO101 | None Supplied | 1.10-1.20 | Brown clay and loam with gravel and vegetation. |
| 1796276 | RO101 | None Supplied | 2.30-2.60 | Brown clay and loam with gravel and vegetation. |
| 1796277 | RO101 | None Supplied | 3.00-4.00 | Brown clay and loam with gravel and vegetation. |
| 1796278 | RO101 | None Supplied | 5.00-6.00 | Light grey clay with gravel and vegetation. |
| 1796279 | RO109 | None Supplied | 0.70-1.10 | Brown loam and clay with gravel and vegetation. |
| 1796280 | RO109 | None Supplied | 2.40-2.60 | Brown clay and loam with gravel and vegetation. |
| 1796281 | RO109 | None Supplied | 7.00-8.00 | Brown clay and loam with gravel and vegetation. |
| 1796282 | RO109 | None Supplied | 11.00-11.50 | Beige clay and gravel. |

**Analytical Report Number : 21-61329**
**Project / Site name: Brockhampton West, Havant**

**Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)**

| Analytical Test Name | Analytical Method Description | Analytical Method Reference | Method number | Wet / Dry Analysis | Accreditation Status |
|---|---|---|---|---|---|
| Metals in soil by ICP-OES | Determination of metals in soil by aqua-regia digestion followed by ICP-OES. | In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil. | L038-PL | D | MCERTS |
| Sulphate, water soluble, in soil (16hr extraction) | Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent). | In house method. | L038-PL | D | MCERTS |
| Phenols, speciated, in soil, by GCMS | Determination of speciated phenols in soil by extraction in dichloromethane and hexane followed by GC-MS. | In-house method based on USEPA 8270 | L064-PL | D | NONE |
| Asbestos identification in soil | Asbestos Identification with the use of polarised light microscopy in conjunction with disperion staining techniques. | In house method based on HSG 248 | A001-PL | D | ISO 17025 |
| Hexavalent chromium in soil (Lower Level) | Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry. | In-house method | L080-PL | W | MCERTS |
| Moisture Content | Moisture content, determined gravimetrically. (30 oC) | In house method. | L019-UK/PL | W | NONE |
| Speciated EPA-16 PAHs in soil | Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards. | In-house method based on USEPA 8270 | L064-PL | D | MCERTS |
| pH in soil (automated) | Determination of pH in soil by addition of water followed by automated electrometric measurement. | In house method. | L099-PL | D | MCERTS |
| Stones content of soil | Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight. | In-house method based on British Standard Methods and MCERTS requirements. | L019-UK/PL | D | NONE |
| Semi-volatile organic compounds in soil | Determination of semi-volatile organic compounds in soil by extraction in dichloromethane and hexane followed by GC-MS. | In-house method based on USEPA 8270 | L064-PL | D | MCERTS |
| TPH Chromatogram in Soil | TPH Chromatogram in Soil. | In-house method | L064-PL | D | NONE |
| TPH in (Soil) | Determination of TPH bands by HS-GC-MS/GC-FID | In-house method, TPH with carbon banding and silica gel split/cleanup. | L076-PL | D | NONE |
| Cr (III) in soil | In-house method by calculation from total Cr and Cr VI. | In-house method by calculation | L080-PL | W | NONE |
| TPHCWG (Soil) | Determination of hexane extractable hydrocarbons in soil by GC-MS/GC-FID. | In-house method with silica gel split/clean up. | L088/76-PL | W | MCERTS |
| Volatile organic compounds in soil | Determination of volatile organic compounds in soil by headspace GC-MS. | In-house method based on USEPA8260 | L073B-PL | W | MCERTS |
| TPH Banding in Soil by FID | Determination of hexane extractable hydrocarbons in soil by GC-FID. | In-house method, TPH with carbon banding and silica gel split/cleanup. | L076-PL | W | MCERTS |
| Total Sulphate in soil as % | Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES. | In house method. | L038-PL | D | MCERTS |

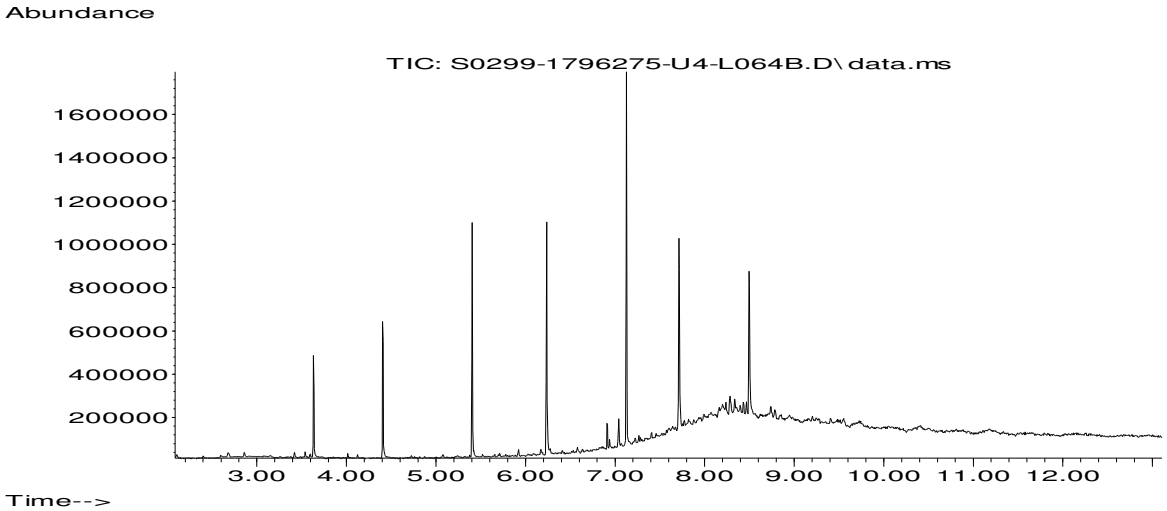
**Analytical Report Number : 21-61329**
**Project / Site name: Brockhampton West, Havant**

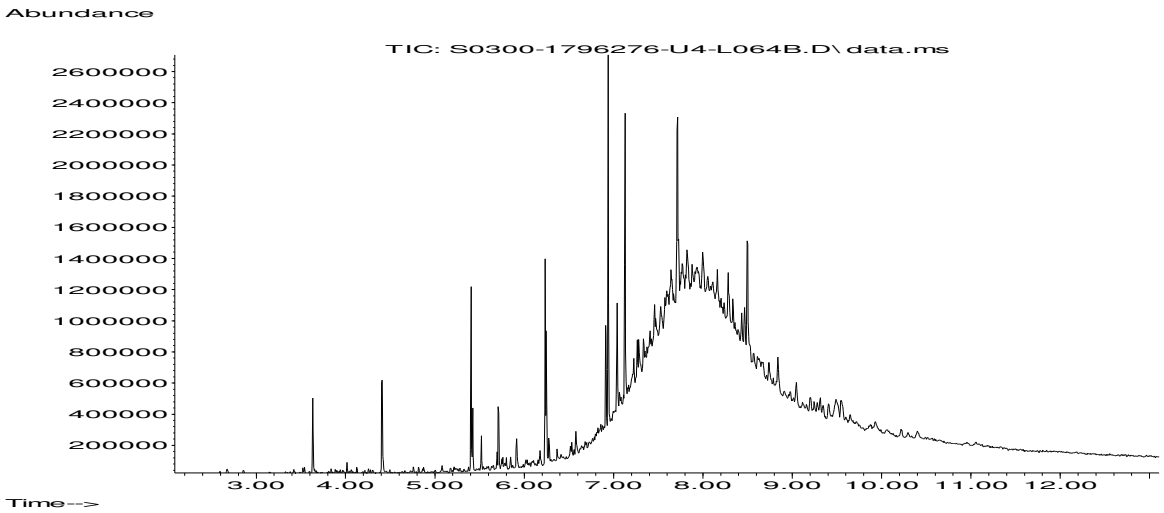
**Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)**

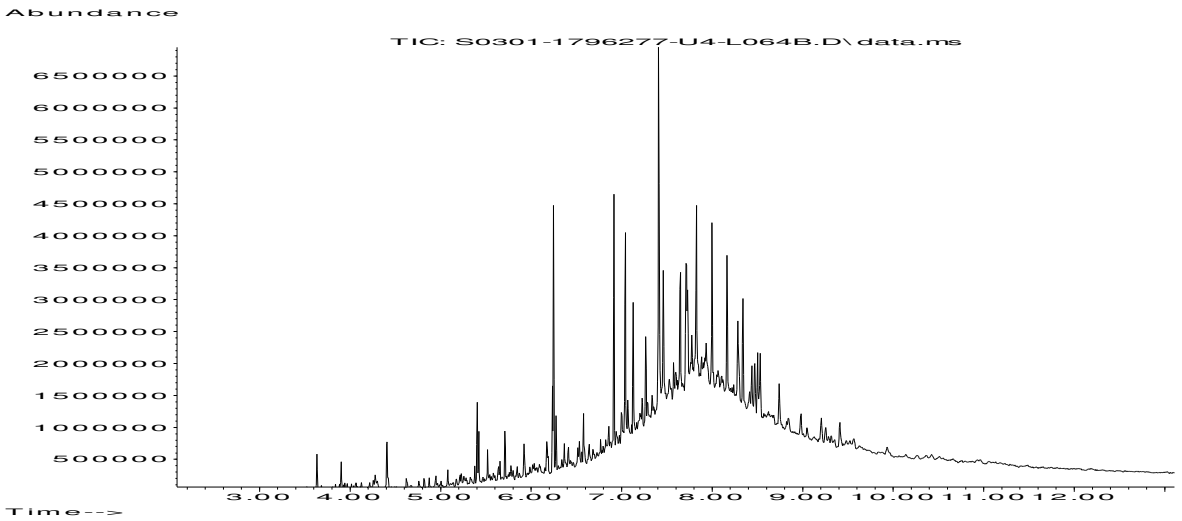
| Analytical Test Name | Analytical Method Description | Analytical Method Reference | Method number | Wet / Dry Analysis | Accreditation Status |
|---|---|---|---|---|---|
| Total Sulphur in soil as % | Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES. | In house method. | L038-PL | D | MCERTS |
| BTEX and MTBE in soil (Monoaromatics) | Determination of BTEX in soil by headspace GC-MS. | In-house method based on USEPA8260 | L073B-PL | W | MCERTS |
| Sulphate, water soluble, in soil | Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent). | In house method. | L038-PL | D | MCERTS |

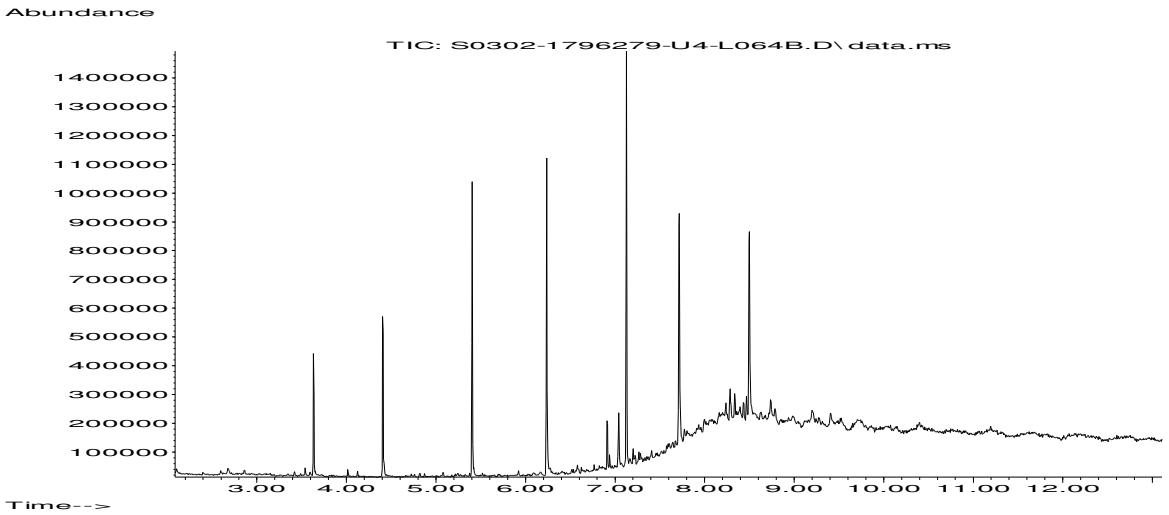
**For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.**
**For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.**
**Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.**

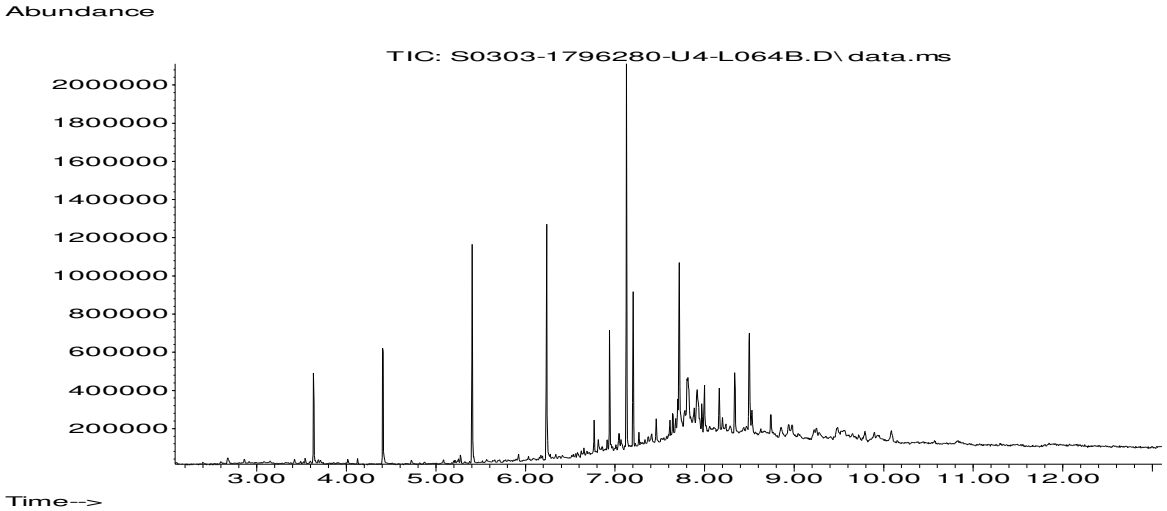
**Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.**

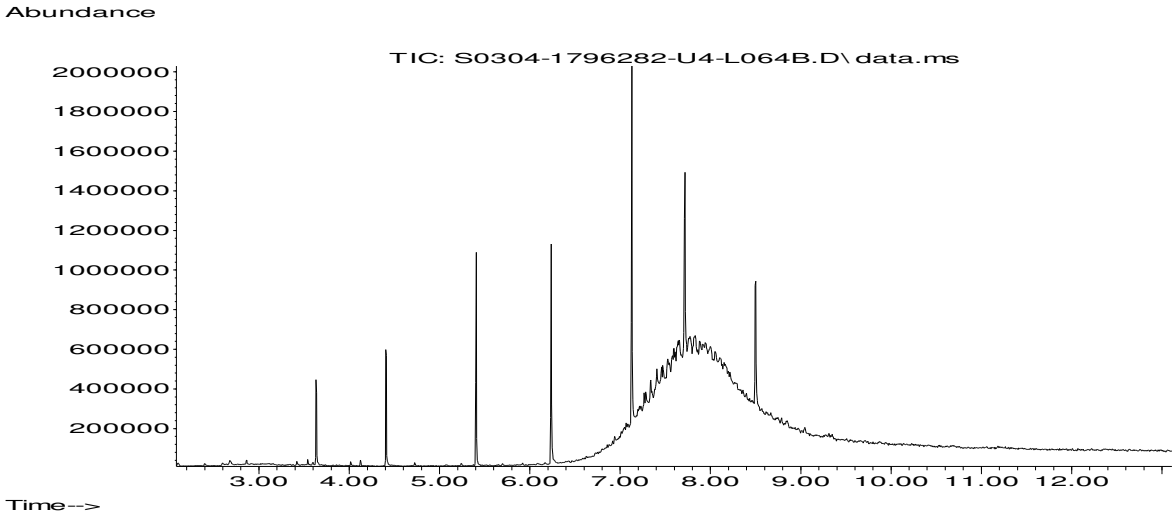

Abundance
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1200000
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800000
600000
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200000
3.00
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Time-->


Abundance
TIC: S0300-1796276-U4-L064B.D\ data.ms
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2400000
2200000
2000000
1800000
1600000
1400000
1200000
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800000
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Abundance
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Abundance
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300000
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Time-->


Abundance
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12.00
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Abundance
TIC: S0304-1796282-U4-L064B.D\data.ms
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1800000
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1400000
1200000
1000000
800000
600000
400000
200000
3.00
4.00
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7.00
8.00
9.00
10.00
11.00
12.00
Time-->

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# Analytical Report Number : 21-64519

| | | | |
|---|---|---|---|
| **Project / Site name:** | Brockhampton West, Havant | **Samples received on:** | 23/03/2021 |
| **Your job number:** | 19-2099.04 | **Samples instructed on/ Analysis started on:** | 23/03/2021 |
| **Your order number:** | DS59990 | **Analysis completed by:** | 30/03/2021 |
| **Report Issue Number:** | 1 | **Report issued on:** | 30/03/2021 |
| **Samples Analysed:** | 20 water samples | | |

**Signed:**

Rachel Bradley
Deputy Quality Manager
**For & on behalf of i2 Analytical Ltd.**

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils - 4 weeks from reporting
leachates - 2 weeks from reporting
waters - 2 weeks from reporting
asbestos - 6 months from reporting

Excel copies of reports are only valid when accompanied by this PDF certificate.

Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement.
Application of uncertainty of measurement would provide a range within which the true result lies.
An estimate of measurement uncertainty can be provided on request.

This certificate should not be reproduced, except in full, without the express permission of the laboratory.
The results included within the report are representative of the samples submitted for analysis.

**Analytical Report Number: 21-64519**
**Project / Site name: Brockhampton West, Havant**

**Your Order No: DS59990**

| Lab Sample Number | | | | 1813960 | 1813961 | 1813962 | 1813963 | 1813964 |
|---|---|---|---|---|---|---|---|---|
| Sample Reference | | | | RO101 | RO101 | RO102 | RO102 | RO103 |
| Sample Number | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Depth (m) | | | | 9.00 | 14.30 | 8.00 | 15.00 | 8.10 |
| Date Sampled | | | | 22/03/2021 | 22/03/2021 | 22/03/2021 | 22/03/2021 | 22/03/2021 |
| Time Taken | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| **Analytical Parameter (Water Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | | | | | |
| **General Inorganics** | | | | | | | | |
| pH | pH Units | N/A | ISO 17025 | 6.8 | 6.9 | 6.8 | 7.0 | 6.7 |
| Sulphate as SO4 | µg/l | 45 | ISO 17025 | 24700 | 23200 | 15300 | 67500 | 127000 |
| Total Sulphur | µg/l | 15 | NONE | 8200 | - | - | 23000 | 42000 |
| Chloride | mg/l | 0.15 | ISO 17025 | 250 | 450 | 560 | 280 | 340 |
| Ammoniacal Nitrogen as NH3 | µg/l | 15 | ISO 17025 | 38000 | 140000 | 250000* | 3400 | 46000 |
| Ammoniacal Nitrogen as NH4 | µg/l | 15 | ISO 17025 | 40000 | - | - | 3600 | 49000 |
| Nitrate as N | mg/l | 0.01 | ISO 17025 | 0.19 | 0.23 | 0.25 | 2.38 | 0.15 |
| Nitrate as NO3 | mg/l | 0.05 | ISO 17025 | 0.83 | 1.04 | 1.09 | 10.5 | 0.67 |
| Nitrite as N | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | 21 | < 1.0 |
| Nitrite as NO2 | µg/l | 5 | ISO 17025 | < 5.0 | < 5.0 | < 5.0 | 70 | < 5.0 |
| **Total Phenols** | | | | | | | | |
| Total Phenols (monohydric) | µg/l | 10 | ISO 17025 | 63 | - | - | - | - |
| **Speciated PAHs** | | | | | | | | |
| Naphthalene | µg/l | 0.01 | ISO 17025 | 9.74 | 0.74 | 2.68 | < 0.01 | 1.31 |
| Acenaphthylene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Acenaphthene | µg/l | 0.01 | ISO 17025 | 3.15 | 1.35 | 1.32 | < 0.01 | 0.40 |
| Fluorene | µg/l | 0.01 | ISO 17025 | 1.90 | 0.40 | 0.76 | < 0.01 | 0.25 |
| Phenanthrene | µg/l | 0.01 | ISO 17025 | 1.89 | < 0.01 | 0.62 | < 0.01 | 0.67 |
| Anthracene | µg/l | 0.01 | ISO 17025 | 0.21 | < 0.01 | 0.23 | < 0.01 | < 0.01 |
| Fluoranthene | µg/l | 0.01 | ISO 17025 | 0.36 | < 0.01 | 0.32 | < 0.01 | 0.75 |
| Pyrene | µg/l | 0.01 | ISO 17025 | 0.28 | < 0.01 | 0.23 | < 0.01 | 0.69 |
| Benzo(a)anthracene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Chrysene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Benzo(b)fluoranthene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Benzo(k)fluoranthene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Benzo(a)pyrene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Indeno(1,2,3-cd)pyrene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Dibenz(a,h)anthracene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Benzo(ghi)perylene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| **Total PAH** | | | | | | | | |
| Total EPA-16 PAHs | µg/l | 0.16 | ISO 17025 | 17.5 | 2.49 | 6.16 | < 0.16 | 4.07 |
| **Heavy Metals / Metalloids** | | | | | | | | |
| Chromium (hexavalent) | µg/l | 5 | ISO 17025 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 |
| Magnesium (dissolved) | mg/l | 0.005 | ISO 17025 | 57 | - | - | 21 | 53 |
| Arsenic (dissolved) | µg/l | 0.15 | ISO 17025 | 10.3 | 10.5 | 7.05 | 1.09 | 6.66 |
| Cadmium (dissolved) | µg/l | 0.02 | ISO 17025 | < 0.02 | < 0.02 | < 0.02 | < 0.02 | < 0.02 |
| Chromium (dissolved) | µg/l | 0.2 | ISO 17025 | 12 | 16 | 16 | 4.6 | 12 |
| Copper (dissolved) | µg/l | 0.5 | ISO 17025 | 6.1 | 9.1 | 7.1 | 5.8 | 5.6 |
| Lead (dissolved) | µg/l | 0.2 | ISO 17025 | 0.3 | 0.2 | 0.3 | < 0.2 | 0.4 |
| Mercury (dissolved) | µg/l | 0.05 | ISO 17025 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Nickel (dissolved) | µg/l | 0.5 | ISO 17025 | 15 | 60 | 52 | 9.2 | 9.2 |
| Zinc (dissolved) | µg/l | 0.5 | ISO 17025 | 5.3 | 18 | 7.1 | 19 | 2.8 |

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The results included within the report relate only to the sample(s) submitted for testing.

**Analytical Report Number: 21-64519**
**Project / Site name: Brockhampton West, Havant**

**Your Order No: DS59990**

| Lab Sample Number | | | | 1813960 | 1813961 | 1813962 | 1813963 | 1813964 |
|---|---|---|---|---|---|---|---|---|
| Sample Reference | | | | RO101 | RO101 | RO102 | RO102 | RO103 |
| Sample Number | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Depth (m) | | | | 9.00 | 14.30 | 8.00 | 15.00 | 8.10 |
| Date Sampled | | | | 22/03/2021 | 22/03/2021 | 22/03/2021 | 22/03/2021 | 22/03/2021 |
| Time Taken | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| **Analytical Parameter (Water Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | | | | | |
| **Monoaromatics & Oxygenates** | | | | | | | | |
| Benzene | µg/l | 1 | ISO 17025 | 9.1 | 5.9 | < 1.0 | < 1.0 | 3.9 |
| Toluene | µg/l | 1 | ISO 17025 | 6.4 | 6.4 | < 1.0 | < 1.0 | 2.0 |
| Ethylbenzene | µg/l | 1 | ISO 17025 | 4.2 | < 1.0 | < 1.0 | < 1.0 | 24.6 |
| p & m-xylene | µg/l | 1 | ISO 17025 | 7.5 | 1.9 | < 1.0 | < 1.0 | 47.5 |
| o-xylene | µg/l | 1 | ISO 17025 | 1.8 | < 1.0 | < 1.0 | < 1.0 | 6.6 |
| MTBE (Methyl Tertiary Butyl Ether) | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| **Petroleum Hydrocarbons** | | | | | | | | |
| TPH-CWG - Aliphatic >C5 - C6 | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| TPH-CWG - Aliphatic >C6 - C8 | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| TPH-CWG - Aliphatic >C8 - C10 | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| Aliphatic >C10 - C12 | µg/l | 10 | ISO 17025 | < 10 | < 10 | 16 | < 10 | 14 |
| Aliphatic >C12 - C16 | µg/l | 10 | ISO 17025 | 11 | 17 | 25 | < 10 | 22 |
| Aliphatic >C16 - C21 | µg/l | 10 | ISO 17025 | 13 | 13 | 25 | < 10 | 43 |
| Aliphatic >C21 - C35 | µg/l | 10 | ISO 17025 | 160 | 130 | 240 | < 10 | 200 |
| Aliphatic >C10 - C35 | µg/l | 10 | ISO 17025 | 190 | 160 | 310 | < 10 | 280 |
| TPH-CWG - Aromatic >C5 - C7 | µg/l | 1 | ISO 17025 | 9.1 | 5.9 | 4.0 | < 1.0 | 3.9 |
| TPH-CWG - Aromatic >C7 - C8 | µg/l | 1 | ISO 17025 | 6.4 | 6.4 | < 1.0 | < 1.0 | 2.0 |
| TPH-CWG - Aromatic >C8 - C10 | µg/l | 1 | ISO 17025 | 33 | 5.8 | 9.2 | < 1.0 | 110 |
| Aromatic >C10 - C12 | µg/l | 10 | ISO 17025 | 350 | 250 | 350 | < 10 | 490 |
| Aromatic >C12 - C16 | µg/l | 10 | ISO 17025 | 250 | 380 | 430 | < 10 | 260 |
| Aromatic >C16 - C21 | µg/l | 10 | ISO 17025 | 120 | 150 | 200 | < 10 | 170 |
| Aromatic >C21 - C35 | µg/l | 10 | ISO 17025 | 270 | 300 | 430 | < 10 | 410 |
| Aromatic >C10 - C35 | µg/l | 10 | ISO 17025 | 980 | 1100 | 1400 | < 10 | 1300 |
| **VOCs** | | | | | | | | |
| Chloromethane | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | - | - | < 1.0 |
| Chloroethane | µg/l | 1 | ISO 17025 | 6.6 | 16.7 | - | - | 5.4 |
| Bromomethane | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | - | - | < 1.0 |
| Vinyl Chloride | µg/l | 1 | NONE | < 1.0 | < 1.0 | - | - | < 1.0 |
| Trichlorofluoromethane | µg/l | 1 | NONE | < 1.0 | < 1.0 | - | - | < 1.0 |
| 1,1-Dichloroethene | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | - | - | < 1.0 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | - | - | < 1.0 |
| Cis-1,2-dichloroethene | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | - | - | < 1.0 |
| MTBE (Methyl Tertiary Butyl Ether) | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | - | - | < 1.0 |
| 1,1-Dichloroethane | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | - | - | < 1.0 |
| 2,2-Dichloropropane | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | - | - | < 1.0 |
| Trichloromethane | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | - | - | < 1.0 |
| 1,1,1-Trichloroethane | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | - | - | < 1.0 |
| 1,2-Dichloroethane | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | - | - | < 1.0 |
| 1,1-Dichloropropene | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | - | - | < 1.0 |
| Trans-1,2-dichloroethene | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | - | - | < 1.0 |
| Benzene | µg/l | 1 | ISO 17025 | 9.1 | 5.9 | - | - | 3.9 |
| Tetrachloromethane | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | - | - | < 1.0 |
| 1,2-Dichloropropane | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | - | - | < 1.0 |
| Trichloroethene | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | - | - | < 1.0 |
| Dibromomethane | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | - | - | < 1.0 |
| Bromodichloromethane | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | - | - | < 1.0 |
| Cis-1,3-dichloropropene | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | - | - | < 1.0 |

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**Analytical Report Number: 21-64519**
**Project / Site name: Brockhampton West, Havant**

**Your Order No: DS59990**

| **Lab Sample Number** | | | | 1813960 | 1813961 | 1813962 | 1813963 | 1813964 |
|---|---|---|---|---|---|---|---|---|
| **Sample Reference** | | | | RO101 | RO101 | RO102 | RO102 | RO103 |
| **Sample Number** | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| **Depth (m)** | | | | 9.00 | 14.30 | 8.00 | 15.00 | 8.10 |
| **Date Sampled** | | | | 22/03/2021 | 22/03/2021 | 22/03/2021 | 22/03/2021 | 22/03/2021 |
| **Time Taken** | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| **Analytical Parameter (Water Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | | | | | |
| Trans-1,3-dichloropropene | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | - | - | < 1.0 |
| Toluene | µg/l | 1 | ISO 17025 | 6.4 | 6.4 | - | - | 2.0 |
| 1,1,2-Trichloroethane | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | - | - | < 1.0 |
| 1,3-Dichloropropane | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | - | - | < 1.0 |
| Dibromochloromethane | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | - | - | < 1.0 |
| Tetrachloroethene | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | - | - | < 1.0 |
| 1,2-Dibromoethane | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | - | - | < 1.0 |
| Chlorobenzene | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | - | - | < 1.0 |
| 1,1,1,2-Tetrachloroethane | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | - | - | < 1.0 |
| Ethylbenzene | µg/l | 1 | ISO 17025 | 4.2 | < 1.0 | - | - | 24.6 |
| p & m-Xylene | µg/l | 1 | ISO 17025 | 7.5 | 1.9 | - | - | 47.5 |
| Styrene | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | - | - | < 1.0 |
| Tribromomethane | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | - | - | < 1.0 |
| o-Xylene | µg/l | 1 | ISO 17025 | 1.8 | < 1.0 | - | - | 6.6 |
| 1,1,2,2-Tetrachloroethane | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | - | - | < 1.0 |
| Isopropylbenzene | µg/l | 1 | ISO 17025 | 1.3 | 1.1 | - | - | 1.3 |
| Bromobenzene | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | - | - | < 1.0 |
| n-Propylbenzene | µg/l | 1 | ISO 17025 | 2.6 | 2.2 | - | - | 3.2 |
| 2-Chlorotoluene | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | - | - | < 1.0 |
| 4-Chlorotoluene | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | - | - | < 1.0 |
| 1,3,5-Trimethylbenzene | µg/l | 1 | ISO 17025 | 1.3 | < 1.0 | - | - | 7.2 |
| tert-Butylbenzene | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | - | - | < 1.0 |
| 1,2,4-Trimethylbenzene | µg/l | 1 | ISO 17025 | 14.4 | < 1.0 | - | - | 15.0 |
| sec-Butylbenzene | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | - | - | < 1.0 |
| 1,3-Dichlorobenzene | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | - | - | < 1.0 |
| p-Isopropyltoluene | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | - | - | 1.1 |
| 1,2-Dichlorobenzene | µg/l | 1 | ISO 17025 | 8.7 | < 1.0 | - | - | < 1.0 |
| 1,4-Dichlorobenzene | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | - | - | < 1.0 |
| Butylbenzene | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | - | - | < 1.0 |
| 1,2-Dibromo-3-chloropropane | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | - | - | < 1.0 |
| 1,2,4-Trichlorobenzene | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | - | - | < 1.0 |
| Hexachlorobutadiene | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | - | - | < 1.0 |
| 1,2,3-Trichlorobenzene | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | - | - | < 1.0 |
| **SVOCs** | | | | | | | | |
| Aniline | µg/l | 0.05 | NONE | < 0.05 | < 0.05 | - | - | < 0.05 |
| Phenol | µg/l | 0.05 | NONE | < 0.05 | < 0.05 | - | - | < 0.05 |
| 2-Chlorophenol | µg/l | 0.05 | NONE | < 0.05 | < 0.05 | - | - | < 0.05 |
| Bis(2-chloroethyl)ether | µg/l | 0.05 | NONE | < 0.05 | < 0.05 | - | - | < 0.05 |
| 1,3-Dichlorobenzene | µg/l | 0.05 | NONE | < 0.05 | < 0.05 | - | - | < 0.05 |
| 1,2-Dichlorobenzene | µg/l | 0.05 | NONE | 3.7 | < 0.05 | - | - | < 0.05 |
| 1,4-Dichlorobenzene | µg/l | 0.05 | NONE | 2.5 | 1.5 | - | - | < 0.05 |
| Bis(2-chloroisopropyl)ether | µg/l | 0.05 | NONE | < 0.05 | < 0.05 | - | - | < 0.05 |
| 2-Methylphenol | µg/l | 0.05 | NONE | 3.2 | < 0.05 | - | - | < 0.05 |
| Hexachloroethane | µg/l | 0.05 | NONE | < 0.05 | < 0.05 | - | - | < 0.05 |
| Nitrobenzene | µg/l | 0.05 | NONE | < 0.05 | < 0.05 | - | - | < 0.05 |
| 4-Methylphenol | µg/l | 0.05 | NONE | 36 | < 0.05 | - | - | 36 |
| Isophorone | µg/l | 0.05 | NONE | < 0.05 | < 0.05 | - | - | < 0.05 |
| 2-Nitrophenol | µg/l | 0.05 | NONE | < 0.05 | < 0.05 | - | - | < 0.05 |
| 2,4-Dimethylphenol | µg/l | 0.05 | NONE | 5.2 | 1.3 | - | - | 2.0 |
| Bis(2-chloroethoxy)methane | µg/l | 0.05 | NONE | < 0.05 | < 0.05 | - | - | < 0.05 |
| 1,2,4-Trichlorobenzene | µg/l | 0.05 | NONE | < 0.05 | < 0.05 | - | - | < 0.05 |
| Naphthalene | µg/l | 0.01 | ISO 17025 | 9.7 | 0.74 | - | - | 1.3 |

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The results included within the report relate only to the sample(s) submitted for testing.

**Analytical Report Number: 21-64519**
**Project / Site name: Brockhampton West, Havant**

**Your Order No: DS59990**

| Lab Sample Number | | | | 1813960 | 1813961 | 1813962 | 1813963 | 1813964 |
|---|---|---|---|---|---|---|---|---|
| Sample Reference | | | | RO101 | RO101 | RO102 | RO102 | RO103 |
| Sample Number | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Depth (m) | | | | 9.00 | 14.30 | 8.00 | 15.00 | 8.10 |
| Date Sampled | | | | 22/03/2021 | 22/03/2021 | 22/03/2021 | 22/03/2021 | 22/03/2021 |
| Time Taken | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Analytical Parameter (Water Analysis) | Units | Limit of detection | Accreditation Status | | | | | |
| 2,4-Dichlorophenol | µg/l | 0.05 | NONE | < 0.05 | < 0.05 | - | - | < 0.05 |
| 4-Chloroaniline | µg/l | 0.05 | NONE | < 0.05 | < 0.05 | - | - | < 0.05 |
| Hexachlorobutadiene | µg/l | 0.05 | NONE | < 0.05 | < 0.05 | - | - | < 0.05 |
| 4-Chloro-3-methylphenol | µg/l | 0.05 | NONE | < 0.05 | < 0.05 | - | - | < 0.05 |
| 2,4,6-Trichlorophenol | µg/l | 0.05 | NONE | < 0.05 | < 0.05 | - | - | < 0.05 |
| 2,4,5-Trichlorophenol | µg/l | 0.05 | NONE | < 0.05 | < 0.05 | - | - | < 0.05 |
| 2-Methylnaphthalene | µg/l | 0.05 | NONE | 1.5 | 1.7 | - | - | < 0.05 |
| 2-Chloronaphthalene | µg/l | 0.05 | NONE | < 0.05 | < 0.05 | - | - | < 0.05 |
| Dimethylphthalate | µg/l | 0.05 | NONE | < 0.05 | < 0.05 | - | - | < 0.05 |
| 2,6-Dinitrotoluene | µg/l | 0.05 | NONE | < 0.05 | < 0.05 | - | - | < 0.05 |
| Acenaphthylene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | - | - | < 0.01 |
| Acenaphthene | µg/l | 0.01 | ISO 17025 | 3.2 | 1.4 | - | - | 0.40 |
| 2,4-Dinitrotoluene | µg/l | 0.05 | NONE | < 0.05 | < 0.05 | - | - | < 0.05 |
| Dibenzofuran | µg/l | 0.05 | NONE | 1.4 | 0.45 | - | - | < 0.05 |
| 4-Chlorophenyl phenyl ether | µg/l | 0.05 | NONE | < 0.05 | < 0.05 | - | - | < 0.05 |
| Diethyl phthalate | µg/l | 0.05 | NONE | < 0.05 | < 0.05 | - | - | < 0.05 |
| 4-Nitroaniline | µg/l | 0.05 | NONE | < 0.05 | < 0.05 | - | - | < 0.05 |
| Fluorene | µg/l | 0.01 | ISO 17025 | 1.9 | 0.40 | - | - | 0.25 |
| Azobenzene | µg/l | 0.05 | NONE | < 0.05 | < 0.05 | - | - | < 0.05 |
| Bromophenyl phenyl ether | µg/l | 0.05 | NONE | < 0.05 | < 0.05 | - | - | < 0.05 |
| Hexachlorobenzene | µg/l | 0.05 | NONE | < 0.05 | < 0.05 | - | - | < 0.05 |
| Phenanthrene | µg/l | 0.01 | ISO 17025 | 1.9 | < 0.01 | - | - | 0.67 |
| Anthracene | µg/l | 0.01 | ISO 17025 | 0.21 | < 0.01 | - | - | < 0.01 |
| Carbazole | µg/l | 0.05 | NONE | 4.2 | 1.2 | - | - | < 0.05 |
| Dibutyl phthalate | µg/l | 0.05 | NONE | < 0.05 | < 0.05 | - | - | < 0.05 |
| Anthraquinone | µg/l | 0.05 | NONE | < 0.05 | < 0.05 | - | - | < 0.05 |
| Fluoranthene | µg/l | 0.01 | ISO 17025 | 0.36 | < 0.01 | - | - | 0.75 |
| Pyrene | µg/l | 0.01 | ISO 17025 | 0.28 | < 0.01 | - | - | 0.69 |
| Butyl benzyl phthalate | µg/l | 0.05 | NONE | < 0.05 | < 0.05 | - | - | < 0.05 |
| Benzo(a)anthracene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | - | - | < 0.01 |
| Chrysene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | - | - | < 0.01 |
| Benzo(b)fluoranthene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | - | - | < 0.01 |
| Benzo(k)fluoranthene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | - | - | < 0.01 |
| Benzo(a)pyrene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | - | - | < 0.01 |
| Indeno(1,2,3-cd)pyrene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | - | - | < 0.01 |
| Dibenz(a,h)anthracene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | - | - | < 0.01 |
| Benzo(ghi)perylene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | - | - | < 0.01 |
| 3&4-Methylphenol | µg/l | 0.1 | NONE | 36 | < 0.10 | - | - | 36 |

U/S = Unsuitable Sample  I/S = Insufficient Sample

*Over range data, sample was diluted and results are estimated from an extrapolated calibration. Results should be interpreted with care

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**Analytical Report Number: 21-64519**
**Project / Site name: Brockhampton West, Havant**

**Your Order No: DS59990**

| Lab Sample Number | | | | 1813965 | 1813966 | 1813967 | 1813968 | 1813969 |
|---|---|---|---|---|---|---|---|---|
| Sample Reference | | | | RO103 | RO104 | RO105 | RO105 | RO106 |
| Sample Number | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Depth (m) | | | | 15.90 | 15.20 | 9.23 | 14.90 | 12.30 |
| Date Sampled | | | | 22/03/2021 | 23/03/2021 | 23/03/2021 | 23/03/2021 | 23/03/2021 |
| Time Taken | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| **Analytical Parameter (Water Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | | | | | |
| **General Inorganics** | | | | | | | | |
| pH | pH Units | N/A | ISO 17025 | 7.2 | 7.4 | 6.8 | 7.0 | 6.9 |
| Sulphate as SO4 | µg/l | 45 | ISO 17025 | 42200 | 73900 | 17800 | 39300 | 9270 |
| Total Sulphur | µg/l | 15 | NONE | - | 25000 | 5900 | - | 3100 |
| Chloride | mg/l | 0.15 | ISO 17025 | 170 | 110 | 170 | 91 | 510 |
| Ammoniacal Nitrogen as NH3 | µg/l | 15 | ISO 17025 | < 15 | 140 | 78000 | 28000 | 220000* |
| Ammoniacal Nitrogen as NH4 | µg/l | 15 | ISO 17025 | - | 150 | 83000 | - | 240000 |
| Nitrate as N | mg/l | 0.01 | ISO 17025 | 0.14 | 1.90 | 0.12 | 2.42 | 0.22 |
| Nitrate as NO3 | mg/l | 0.05 | ISO 17025 | 0.62 | 8.40 | 0.52 | 10.7 | 0.99 |
| Nitrite as N | µg/l | 1 | ISO 17025 | < 1.0 | 33 | 4.9 | 1400 | < 1.0 |
| Nitrite as NO2 | µg/l | 5 | ISO 17025 | < 5.0 | 110 | 16 | 4500 | < 5.0 |
| **Total Phenols** | | | | | | | | |
| Total Phenols (monohydric) | µg/l | 10 | ISO 17025 | < 10 | - | - | - | < 10 |
| **Speciated PAHs** | | | | | | | | |
| Naphthalene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | 5.90 |
| Acenaphthylene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Acenaphthene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | 1.16 | 0.38 | 5.13 |
| Fluorene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | 0.56 | 0.20 | 2.87 |
| Phenanthrene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | 0.33 | < 0.01 | 3.93 |
| Anthracene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | 0.69 |
| Fluoranthene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | 1.34 |
| Pyrene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | 1.02 |
| Benzo(a)anthracene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | 0.36 |
| Chrysene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | 0.28 |
| Benzo(b)fluoranthene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | 0.28 |
| Benzo(k)fluoranthene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Benzo(a)pyrene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | 0.47 |
| Indeno(1,2,3-cd)pyrene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Dibenz(a,h)anthracene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Benzo(ghi)perylene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| **Total PAH** | | | | | | | | |
| Total EPA-16 PAHs | µg/l | 0.16 | ISO 17025 | < 0.16 | < 0.16 | 2.05 | 0.58 | 22.3 |
| **Heavy Metals / Metalloids** | | | | | | | | |
| Chromium (hexavalent) | µg/l | 5 | ISO 17025 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 |
| Magnesium (dissolved) | mg/l | 0.005 | ISO 17025 | - | 13 | 52 | - | 66 |
| Arsenic (dissolved) | µg/l | 0.15 | ISO 17025 | 2.70 | 1.52 | 1.06 | 0.65 | 3.24 |
| Cadmium (dissolved) | µg/l | 0.02 | ISO 17025 | < 0.02 | 0.06 | < 0.02 | 0.04 | < 0.02 |
| Chromium (dissolved) | µg/l | 0.2 | ISO 17025 | 2.7 | 3.1 | 14 | 6.6 | 14 |
| Copper (dissolved) | µg/l | 0.5 | ISO 17025 | 1.6 | 2.3 | 1.6 | 3.4 | 2.7 |
| Lead (dissolved) | µg/l | 0.2 | ISO 17025 | 2.2 | 19 | < 0.2 | < 0.2 | < 0.2 |
| Mercury (dissolved) | µg/l | 0.05 | ISO 17025 | 0.08 | 0.06 | < 0.05 | < 0.05 | < 0.05 |
| Nickel (dissolved) | µg/l | 0.5 | ISO 17025 | 5.9 | 5.0 | 7.8 | 34 | 10 |
| Zinc (dissolved) | µg/l | 0.5 | ISO 17025 | 23 | 34 | 5.4 | 41 | 6.5 |

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**Analytical Report Number: 21-64519**
**Project / Site name: Brockhampton West, Havant**

**Your Order No: DS59990**

| Lab Sample Number | | | | 1813965 | 1813966 | 1813967 | 1813968 | 1813969 |
|---|---|---|---|---|---|---|---|---|
| Sample Reference | | | | RO103 | RO104 | RO105 | RO105 | RO106 |
| Sample Number | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Depth (m) | | | | 15.90 | 15.20 | 9.23 | 14.90 | 12.30 |
| Date Sampled | | | | 22/03/2021 | 23/03/2021 | 23/03/2021 | 23/03/2021 | 23/03/2021 |
| Time Taken | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| **Analytical Parameter (Water Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | | | | | |
| **Monoaromatics & Oxygenates** | | | | | | | | |
| Benzene | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| Toluene | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| Ethylbenzene | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| p & m-xylene | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| o-xylene | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| MTBE (Methyl Tertiary Butyl Ether) | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| **Petroleum Hydrocarbons** | | | | | | | | |
| TPH-CWG - Aliphatic >C5 - C6 | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| TPH-CWG - Aliphatic >C6 - C8 | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| TPH-CWG - Aliphatic >C8 - C10 | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| Aliphatic >C10 - C12 | µg/l | 10 | ISO 17025 | < 10 | 13 | 10 | < 10 | 19 |
| Aliphatic >C12 - C16 | µg/l | 10 | ISO 17025 | < 10 | 21 | 18 | < 10 | 38 |
| Aliphatic >C16 - C21 | µg/l | 10 | ISO 17025 | < 10 | 26 | 16 | < 10 | 31 |
| Aliphatic >C21 - C35 | µg/l | 10 | ISO 17025 | < 10 | 160 | 150 | < 10 | 340 |
| Aliphatic >C10 - C35 | µg/l | 10 | ISO 17025 | < 10 | 220 | 190 | < 10 | 420 |
| TPH-CWG - Aromatic >C5 - C7 | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | 1.9 |
| TPH-CWG - Aromatic >C7 - C8 | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| TPH-CWG - Aromatic >C8 - C10 | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | 1.2 |
| Aromatic >C10 - C12 | µg/l | 10 | ISO 17025 | < 10 | 55 | 95 | < 10 | 370 |
| Aromatic >C12 - C16 | µg/l | 10 | ISO 17025 | < 10 | 110 | 130 | < 10 | 530 |
| Aromatic >C16 - C21 | µg/l | 10 | ISO 17025 | < 10 | 99 | 73 | < 10 | 320 |
| Aromatic >C21 - C35 | µg/l | 10 | ISO 17025 | < 10 | 480 | 260 | < 10 | 810 |
| Aromatic >C10 - C35 | µg/l | 10 | ISO 17025 | < 10 | 740 | 560 | < 10 | 2000 |
| **VOCs** | | | | | | | | |
| Chloromethane | µg/l | 1 | ISO 17025 | < 1.0 | - | - | - | < 1.0 |
| Chloroethane | µg/l | 1 | ISO 17025 | < 1.0 | - | - | - | < 1.0 |
| Bromomethane | µg/l | 1 | ISO 17025 | < 1.0 | - | - | - | < 1.0 |
| Vinyl Chloride | µg/l | 1 | NONE | < 1.0 | - | - | - | < 1.0 |
| Trichlorofluoromethane | µg/l | 1 | NONE | < 1.0 | - | - | - | < 1.0 |
| 1,1-Dichloroethene | µg/l | 1 | ISO 17025 | < 1.0 | - | - | - | < 1.0 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | µg/l | 1 | ISO 17025 | < 1.0 | - | - | - | < 1.0 |
| Cis-1,2-dichloroethene | µg/l | 1 | ISO 17025 | < 1.0 | - | - | - | < 1.0 |
| MTBE (Methyl Tertiary Butyl Ether) | µg/l | 1 | ISO 17025 | < 1.0 | - | - | - | < 1.0 |
| 1,1-Dichloroethane | µg/l | 1 | ISO 17025 | < 1.0 | - | - | - | < 1.0 |
| 2,2-Dichloropropane | µg/l | 1 | ISO 17025 | < 1.0 | - | - | - | < 1.0 |
| Trichloromethane | µg/l | 1 | ISO 17025 | < 1.0 | - | - | - | < 1.0 |
| 1,1,1-Trichloroethane | µg/l | 1 | ISO 17025 | < 1.0 | - | - | - | < 1.0 |
| 1,2-Dichloroethane | µg/l | 1 | ISO 17025 | < 1.0 | - | - | - | < 1.0 |
| 1,1-Dichloropropene | µg/l | 1 | ISO 17025 | < 1.0 | - | - | - | < 1.0 |
| Trans-1,2-dichloroethene | µg/l | 1 | ISO 17025 | < 1.0 | - | - | - | < 1.0 |
| Benzene | µg/l | 1 | ISO 17025 | < 1.0 | - | - | - | < 1.0 |
| Tetrachloromethane | µg/l | 1 | ISO 17025 | < 1.0 | - | - | - | < 1.0 |
| 1,2-Dichloropropane | µg/l | 1 | ISO 17025 | < 1.0 | - | - | - | < 1.0 |
| Trichloroethene | µg/l | 1 | ISO 17025 | < 1.0 | - | - | - | < 1.0 |
| Dibromomethane | µg/l | 1 | ISO 17025 | < 1.0 | - | - | - | < 1.0 |
| Bromodichloromethane | µg/l | 1 | ISO 17025 | < 1.0 | - | - | - | < 1.0 |
| Cis-1,3-dichloropropene | µg/l | 1 | ISO 17025 | < 1.0 | - | - | - | < 1.0 |

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**Analytical Report Number: 21-64519**
**Project / Site name: Brockhampton West, Havant**

**Your Order No: DS59990**

| **Lab Sample Number** | | | | 1813965 | 1813966 | 1813967 | 1813968 | 1813969 |
|---|---|---|---|---|---|---|---|---|
| **Sample Reference** | | | | RO103 | RO104 | RO105 | RO105 | RO106 |
| **Sample Number** | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| **Depth (m)** | | | | 15.90 | 15.20 | 9.23 | 14.90 | 12.30 |
| **Date Sampled** | | | | 22/03/2021 | 23/03/2021 | 23/03/2021 | 23/03/2021 | 23/03/2021 |
| **Time Taken** | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| **Analytical Parameter (Water Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | | | | | |
| Trans-1,3-dichloropropene | µg/l | 1 | ISO 17025 | < 1.0 | - | - | - | < 1.0 |
| Toluene | µg/l | 1 | ISO 17025 | < 1.0 | - | - | - | < 1.0 |
| 1,1,2-Trichloroethane | µg/l | 1 | ISO 17025 | < 1.0 | - | - | - | < 1.0 |
| 1,3-Dichloropropane | µg/l | 1 | ISO 17025 | < 1.0 | - | - | - | < 1.0 |
| Dibromochloromethane | µg/l | 1 | ISO 17025 | < 1.0 | - | - | - | < 1.0 |
| Tetrachloroethene | µg/l | 1 | ISO 17025 | < 1.0 | - | - | - | < 1.0 |
| 1,2-Dibromoethane | µg/l | 1 | ISO 17025 | < 1.0 | - | - | - | < 1.0 |
| Chlorobenzene | µg/l | 1 | ISO 17025 | < 1.0 | - | - | - | < 1.0 |
| 1,1,1,2-Tetrachloroethane | µg/l | 1 | ISO 17025 | < 1.0 | - | - | - | < 1.0 |
| Ethylbenzene | µg/l | 1 | ISO 17025 | < 1.0 | - | - | - | < 1.0 |
| p & m-Xylene | µg/l | 1 | ISO 17025 | < 1.0 | - | - | - | < 1.0 |
| Styrene | µg/l | 1 | ISO 17025 | < 1.0 | - | - | - | < 1.0 |
| Tribromomethane | µg/l | 1 | ISO 17025 | < 1.0 | - | - | - | < 1.0 |
| o-Xylene | µg/l | 1 | ISO 17025 | < 1.0 | - | - | - | < 1.0 |
| 1,1,2,2-Tetrachloroethane | µg/l | 1 | ISO 17025 | < 1.0 | - | - | - | < 1.0 |
| Isopropylbenzene | µg/l | 1 | ISO 17025 | < 1.0 | - | - | - | < 1.0 |
| Bromobenzene | µg/l | 1 | ISO 17025 | < 1.0 | - | - | - | < 1.0 |
| n-Propylbenzene | µg/l | 1 | ISO 17025 | < 1.0 | - | - | - | < 1.0 |
| 2-Chlorotoluene | µg/l | 1 | ISO 17025 | < 1.0 | - | - | - | < 1.0 |
| 4-Chlorotoluene | µg/l | 1 | ISO 17025 | < 1.0 | - | - | - | < 1.0 |
| 1,3,5-Trimethylbenzene | µg/l | 1 | ISO 17025 | < 1.0 | - | - | - | < 1.0 |
| tert-Butylbenzene | µg/l | 1 | ISO 17025 | < 1.0 | - | - | - | < 1.0 |
| 1,2,4-Trimethylbenzene | µg/l | 1 | ISO 17025 | < 1.0 | - | - | - | < 1.0 |
| sec-Butylbenzene | µg/l | 1 | ISO 17025 | < 1.0 | - | - | - | < 1.0 |
| 1,3-Dichlorobenzene | µg/l | 1 | ISO 17025 | < 1.0 | - | - | - | < 1.0 |
| p-Isopropyltoluene | µg/l | 1 | ISO 17025 | < 1.0 | - | - | - | < 1.0 |
| 1,2-Dichlorobenzene | µg/l | 1 | ISO 17025 | < 1.0 | - | - | - | < 1.0 |
| 1,4-Dichlorobenzene | µg/l | 1 | ISO 17025 | < 1.0 | - | - | - | < 1.0 |
| Butylbenzene | µg/l | 1 | ISO 17025 | < 1.0 | - | - | - | < 1.0 |
| 1,2-Dibromo-3-chloropropane | µg/l | 1 | ISO 17025 | < 1.0 | - | - | - | < 1.0 |
| 1,2,4-Trichlorobenzene | µg/l | 1 | ISO 17025 | < 1.0 | - | - | - | < 1.0 |
| Hexachlorobutadiene | µg/l | 1 | ISO 17025 | < 1.0 | - | - | - | < 1.0 |
| 1,2,3-Trichlorobenzene | µg/l | 1 | ISO 17025 | < 1.0 | - | - | - | < 1.0 |
| **SVOCs** | | | | | | | | |
| Aniline | µg/l | 0.05 | NONE | < 0.05 | - | - | - | < 0.05 |
| Phenol | µg/l | 0.05 | NONE | < 0.05 | - | - | - | < 0.05 |
| 2-Chlorophenol | µg/l | 0.05 | NONE | < 0.05 | - | - | - | < 0.05 |
| Bis(2-chloroethyl)ether | µg/l | 0.05 | NONE | < 0.05 | - | - | - | < 0.05 |
| 1,3-Dichlorobenzene | µg/l | 0.05 | NONE | < 0.05 | - | - | - | < 0.05 |
| 1,2-Dichlorobenzene | µg/l | 0.05 | NONE | < 0.05 | - | - | - | < 0.05 |
| 1,4-Dichlorobenzene | µg/l | 0.05 | NONE | < 0.05 | - | - | - | < 0.05 |
| Bis(2-chloroisopropyl)ether | µg/l | 0.05 | NONE | < 0.05 | - | - | - | < 0.05 |
| 2-Methylphenol | µg/l | 0.05 | NONE | < 0.05 | - | - | - | < 0.05 |
| Hexachloroethane | µg/l | 0.05 | NONE | < 0.05 | - | - | - | < 0.05 |
| Nitrobenzene | µg/l | 0.05 | NONE | < 0.05 | - | - | - | < 0.05 |
| 4-Methylphenol | µg/l | 0.05 | NONE | < 0.05 | - | - | - | < 0.05 |
| Isophorone | µg/l | 0.05 | NONE | < 0.05 | - | - | - | < 0.05 |
| 2-Nitrophenol | µg/l | 0.05 | NONE | < 0.05 | - | - | - | < 0.05 |
| 2,4-Dimethylphenol | µg/l | 0.05 | NONE | < 0.05 | - | - | - | < 0.05 |
| Bis(2-chloroethoxy)methane | µg/l | 0.05 | NONE | < 0.05 | - | - | - | < 0.05 |
| 1,2,4-Trichlorobenzene | µg/l | 0.05 | NONE | < 0.05 | - | - | - | < 0.05 |
| Naphthalene | µg/l | 0.01 | ISO 17025 | < 0.01 | - | - | - | 5.9 |

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**Analytical Report Number: 21-64519**
**Project / Site name: Brockhampton West, Havant**

**Your Order No: DS59990**

| Lab Sample Number | | | | 1813965 | 1813966 | 1813967 | 1813968 | 1813969 |
|---|---|---|---|---|---|---|---|---|
| Sample Reference | | | | RO103 | RO104 | RO105 | RO105 | RO106 |
| Sample Number | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Depth (m) | | | | 15.90 | 15.20 | 9.23 | 14.90 | 12.30 |
| Date Sampled | | | | 22/03/2021 | 23/03/2021 | 23/03/2021 | 23/03/2021 | 23/03/2021 |
| Time Taken | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Analytical Parameter (Water Analysis) | Units | Limit of detection | Accreditation Status | | | | | |
| 2,4-Dichlorophenol | µg/l | 0.05 | NONE | < 0.05 | - | - | - | < 0.05 |
| 4-Chloroaniline | µg/l | 0.05 | NONE | < 0.05 | - | - | - | < 0.05 |
| Hexachlorobutadiene | µg/l | 0.05 | NONE | < 0.05 | - | - | - | < 0.05 |
| 4-Chloro-3-methylphenol | µg/l | 0.05 | NONE | < 0.05 | - | - | - | < 0.05 |
| 2,4,6-Trichlorophenol | µg/l | 0.05 | NONE | < 0.05 | - | - | - | < 0.05 |
| 2,4,5-Trichlorophenol | µg/l | 0.05 | NONE | < 0.05 | - | - | - | < 0.05 |
| 2-Methylnaphthalene | µg/l | 0.05 | NONE | < 0.05 | - | - | - | 3.2 |
| 2-Chloronaphthalene | µg/l | 0.05 | NONE | < 0.05 | - | - | - | < 0.05 |
| Dimethylphthalate | µg/l | 0.05 | NONE | < 0.05 | - | - | - | < 0.05 |
| 2,6-Dinitrotoluene | µg/l | 0.05 | NONE | < 0.05 | - | - | - | < 0.05 |
| Acenaphthylene | µg/l | 0.01 | ISO 17025 | < 0.01 | - | - | - | < 0.01 |
| Acenaphthene | µg/l | 0.01 | ISO 17025 | < 0.01 | - | - | - | 5.1 |
| 2,4-Dinitrotoluene | µg/l | 0.05 | NONE | < 0.05 | - | - | - | < 0.05 |
| Dibenzofuran | µg/l | 0.05 | NONE | < 0.05 | - | - | - | 2.1 |
| 4-Chlorophenyl phenyl ether | µg/l | 0.05 | NONE | < 0.05 | - | - | - | < 0.05 |
| Diethyl phthalate | µg/l | 0.05 | NONE | < 0.05 | - | - | - | < 0.05 |
| 4-Nitroaniline | µg/l | 0.05 | NONE | < 0.05 | - | - | - | < 0.05 |
| Fluorene | µg/l | 0.01 | ISO 17025 | < 0.01 | - | - | - | 2.9 |
| Azobenzene | µg/l | 0.05 | NONE | < 0.05 | - | - | - | < 0.05 |
| Bromophenyl phenyl ether | µg/l | 0.05 | NONE | < 0.05 | - | - | - | < 0.05 |
| Hexachlorobenzene | µg/l | 0.05 | NONE | < 0.05 | - | - | - | < 0.05 |
| Phenanthrene | µg/l | 0.01 | ISO 17025 | < 0.01 | - | - | - | 3.9 |
| Anthracene | µg/l | 0.01 | ISO 17025 | < 0.01 | - | - | - | 0.69 |
| Carbazole | µg/l | 0.05 | NONE | < 0.05 | - | - | - | 1.8 |
| Dibutyl phthalate | µg/l | 0.05 | NONE | < 0.05 | - | - | - | < 0.05 |
| Anthraquinone | µg/l | 0.05 | NONE | < 0.05 | - | - | - | < 0.05 |
| Fluoranthene | µg/l | 0.01 | ISO 17025 | < 0.01 | - | - | - | 1.3 |
| Pyrene | µg/l | 0.01 | ISO 17025 | < 0.01 | - | - | - | 1.0 |
| Butyl benzyl phthalate | µg/l | 0.05 | NONE | < 0.05 | - | - | - | < 0.05 |
| Benzo(a)anthracene | µg/l | 0.01 | ISO 17025 | < 0.01 | - | - | - | 0.36 |
| Chrysene | µg/l | 0.01 | ISO 17025 | < 0.01 | - | - | - | 0.28 |
| Benzo(b)fluoranthene | µg/l | 0.01 | ISO 17025 | < 0.01 | - | - | - | 0.28 |
| Benzo(k)fluoranthene | µg/l | 0.01 | ISO 17025 | < 0.01 | - | - | - | < 0.01 |
| Benzo(a)pyrene | µg/l | 0.01 | ISO 17025 | < 0.01 | - | - | - | 0.47 |
| Indeno(1,2,3-cd)pyrene | µg/l | 0.01 | ISO 17025 | < 0.01 | - | - | - | < 0.01 |
| Dibenz(a,h)anthracene | µg/l | 0.01 | ISO 17025 | < 0.01 | - | - | - | < 0.01 |
| Benzo(ghi)perylene | µg/l | 0.01 | ISO 17025 | < 0.01 | - | - | - | < 0.01 |
| 3&4-Methylphenol | µg/l | 0.1 | NONE | < 0.10 | - | - | - | < 0.10 |

U/S = Unsuitable Sample I/S = Insufficient Sample

*Over range data, sample was diluted and results are estimated from an extrapolated calibration. Results should be interpreted with care

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**Analytical Report Number: 21-64519**
**Project / Site name: Brockhampton West, Havant**

**Your Order No: DS59990**

| Lab Sample Number | | | | 1813970 | 1813971 | 1813972 | 1813973 | 1813974 |
|---|---|---|---|---|---|---|---|---|
| Sample Reference | | | | RO106 | RO107 | RO108 | RO109 | DS101 |
| Sample Number | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Depth (m) | | | | 16.60 | 14.80 | 13.10 | 14.50 | 11.20 |
| Date Sampled | | | | 23/03/2021 | 23/03/2021 | 23/03/2021 | 23/03/2021 | 23/03/2021 |
| Time Taken | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| **Analytical Parameter (Water Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | | | | | |
| **General Inorganics** | | | | | | | | |
| pH | pH Units | N/A | ISO 17025 | 7.2 | 7.2 | 7.0 | 7.0 | 7.0 |
| Sulphate as SO4 | µg/l | 45 | ISO 17025 | 97500 | 208000 | 63100 | 20500 | 17600 |
| Total Sulphur | µg/l | 15 | NONE | - | - | - | - | - |
| Chloride | mg/l | 0.15 | ISO 17025 | 420 | 1300 | 410 | 150 | 340 |
| Ammoniacal Nitrogen as NH3 | µg/l | 15 | ISO 17025 | 17000 | 230 | 47000 | 25000 | 87000 |
| Ammoniacal Nitrogen as NH4 | µg/l | 15 | ISO 17025 | - | - | - | - | - |
| Nitrate as N | mg/l | 0.01 | ISO 17025 | 0.21 | 1.75 | 0.41 | 2.65 | 0.16 |
| Nitrate as NO3 | mg/l | 0.05 | ISO 17025 | 0.93 | 7.73 | 1.82 | 11.7 | 0.73 |
| Nitrite as N | µg/l | 1 | ISO 17025 | 8.5 | 58 | 100 | 150 | 13 |
| Nitrite as NO2 | µg/l | 5 | ISO 17025 | 28 | 190 | 330 | 510 | 43 |
| **Total Phenols** | | | | | | | | |
| Total Phenols (monohydric) | µg/l | 10 | ISO 17025 | - | - | - | < 10 | - |
| **Speciated PAHs** | | | | | | | | |
| Naphthalene | µg/l | 0.01 | ISO 17025 | 2.02 | < 0.01 | < 0.01 | < 0.01 | 14.8 |
| Acenaphthylene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Acenaphthene | µg/l | 0.01 | ISO 17025 | 0.73 | < 0.01 | < 0.01 | < 0.01 | 3.82 |
| Fluorene | µg/l | 0.01 | ISO 17025 | 0.44 | < 0.01 | < 0.01 | < 0.01 | 2.24 |
| Phenanthrene | µg/l | 0.01 | ISO 17025 | 0.66 | < 0.01 | < 0.01 | < 0.01 | 3.15 |
| Anthracene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | 0.45 |
| Fluoranthene | µg/l | 0.01 | ISO 17025 | 0.29 | < 0.01 | < 0.01 | < 0.01 | 0.71 |
| Pyrene | µg/l | 0.01 | ISO 17025 | 0.24 | < 0.01 | < 0.01 | < 0.01 | 0.46 |
| Benzo(a)anthracene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Chrysene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Benzo(b)fluoranthene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Benzo(k)fluoranthene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Benzo(a)pyrene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Indeno(1,2,3-cd)pyrene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Dibenz(a,h)anthracene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Benzo(ghi)perylene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| **Total PAH** | | | | | | | | |
| Total EPA-16 PAHs | µg/l | 0.16 | ISO 17025 | 4.38 | < 0.16 | < 0.16 | < 0.16 | 25.6 |
| **Heavy Metals / Metalloids** | | | | | | | | |
| Chromium (hexavalent) | µg/l | 5 | ISO 17025 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 |
| Magnesium (dissolved) | mg/l | 0.005 | ISO 17025 | - | - | - | - | - |
| Arsenic (dissolved) | µg/l | 0.15 | ISO 17025 | 4.41 | 9.24 | 2.69 | 2.83 | 2.92 |
| Cadmium (dissolved) | µg/l | 0.02 | ISO 17025 | < 0.02 | < 0.02 | < 0.02 | < 0.02 | < 0.02 |
| Chromium (dissolved) | µg/l | 0.2 | ISO 17025 | 5.5 | 3.5 | 6.9 | 5.6 | 12 |
| Copper (dissolved) | µg/l | 0.5 | ISO 17025 | 3.2 | 9.7 | 7.0 | 4.4 | 1.5 |
| Lead (dissolved) | µg/l | 0.2 | ISO 17025 | 2.2 | < 0.2 | < 0.2 | < 0.2 | 0.3 |
| Mercury (dissolved) | µg/l | 0.05 | ISO 17025 | < 0.05 | 0.56 | < 0.05 | < 0.05 | < 0.05 |
| Nickel (dissolved) | µg/l | 0.5 | ISO 17025 | 20 | 20 | 20 | 29 | 15 |
| Zinc (dissolved) | µg/l | 0.5 | ISO 17025 | 540 | 4.4 | 9.2 | 9.1 | 2.9 |

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**Analytical Report Number: 21-64519**
**Project / Site name: Brockhampton West, Havant**

**Your Order No: DS59990**

| Lab Sample Number | | | | 1813970 | 1813971 | 1813972 | 1813973 | 1813974 |
|---|---|---|---|---|---|---|---|---|
| Sample Reference | | | | RO106 | RO107 | RO108 | RO109 | DS101 |
| Sample Number | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Depth (m) | | | | 16.60 | 14.80 | 13.10 | 14.50 | 11.20 |
| Date Sampled | | | | 23/03/2021 | 23/03/2021 | 23/03/2021 | 23/03/2021 | 23/03/2021 |
| Time Taken | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| **Analytical Parameter (Water Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | | | | | |
| **Monoaromatics & Oxygenates** | | | | | | | | |
| Benzene | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| Toluene | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| Ethylbenzene | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| p & m-xylene | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| o-xylene | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| MTBE (Methyl Tertiary Butyl Ether) | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| **Petroleum Hydrocarbons** | | | | | | | | |
| TPH-CWG - Aliphatic >C5 - C6 | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| TPH-CWG - Aliphatic >C6 - C8 | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| TPH-CWG - Aliphatic >C8 - C10 | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| Aliphatic >C10 - C12 | µg/l | 10 | ISO 17025 | < 10 | < 10 | < 10 | < 10 | < 10 |
| Aliphatic >C12 - C16 | µg/l | 10 | ISO 17025 | < 10 | < 10 | < 10 | < 10 | 11 |
| Aliphatic >C16 - C21 | µg/l | 10 | ISO 17025 | < 10 | < 10 | < 10 | < 10 | < 10 |
| Aliphatic >C21 - C35 | µg/l | 10 | ISO 17025 | < 10 | < 10 | < 10 | < 10 | 100 |
| Aliphatic >C10 - C35 | µg/l | 10 | ISO 17025 | < 10 | < 10 | < 10 | < 10 | 110 |
| TPH-CWG - Aromatic >C5 - C7 | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| TPH-CWG - Aromatic >C7 - C8 | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| TPH-CWG - Aromatic >C8 - C10 | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| Aromatic >C10 - C12 | µg/l | 10 | ISO 17025 | < 10 | < 10 | < 10 | < 10 | 130 |
| Aromatic >C12 - C16 | µg/l | 10 | ISO 17025 | < 10 | < 10 | < 10 | < 10 | 190 |
| Aromatic >C16 - C21 | µg/l | 10 | ISO 17025 | < 10 | < 10 | < 10 | < 10 | 120 |
| Aromatic >C21 - C35 | µg/l | 10 | ISO 17025 | < 10 | < 10 | < 10 | < 10 | 250 |
| Aromatic >C10 - C35 | µg/l | 10 | ISO 17025 | < 10 | < 10 | < 10 | < 10 | 700 |
| **VOCs** | | | | | | | | |
| Chloromethane | µg/l | 1 | ISO 17025 | - | - | - | < 1.0 | - |
| Chloroethane | µg/l | 1 | ISO 17025 | - | - | - | < 1.0 | - |
| Bromomethane | µg/l | 1 | ISO 17025 | - | - | - | < 1.0 | - |
| Vinyl Chloride | µg/l | 1 | NONE | - | - | - | < 1.0 | - |
| Trichlorofluoromethane | µg/l | 1 | NONE | - | - | - | < 1.0 | - |
| 1,1-Dichloroethene | µg/l | 1 | ISO 17025 | - | - | - | < 1.0 | - |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | µg/l | 1 | ISO 17025 | - | - | - | < 1.0 | - |
| Cis-1,2-dichloroethene | µg/l | 1 | ISO 17025 | - | - | - | < 1.0 | - |
| MTBE (Methyl Tertiary Butyl Ether) | µg/l | 1 | ISO 17025 | - | - | - | < 1.0 | - |
| 1,1-Dichloroethane | µg/l | 1 | ISO 17025 | - | - | - | < 1.0 | - |
| 2,2-Dichloropropane | µg/l | 1 | ISO 17025 | - | - | - | < 1.0 | - |
| Trichloromethane | µg/l | 1 | ISO 17025 | - | - | - | < 1.0 | - |
| 1,1,1-Trichloroethane | µg/l | 1 | ISO 17025 | - | - | - | < 1.0 | - |
| 1,2-Dichloroethane | µg/l | 1 | ISO 17025 | - | - | - | < 1.0 | - |
| 1,1-Dichloropropene | µg/l | 1 | ISO 17025 | - | - | - | < 1.0 | - |
| Trans-1,2-dichloroethene | µg/l | 1 | ISO 17025 | - | - | - | < 1.0 | - |
| Benzene | µg/l | 1 | ISO 17025 | - | - | - | < 1.0 | - |
| Tetrachloromethane | µg/l | 1 | ISO 17025 | - | - | - | < 1.0 | - |
| 1,2-Dichloropropane | µg/l | 1 | ISO 17025 | - | - | - | < 1.0 | - |
| Trichloroethene | µg/l | 1 | ISO 17025 | - | - | - | < 1.0 | - |
| Dibromomethane | µg/l | 1 | ISO 17025 | - | - | - | < 1.0 | - |
| Bromodichloromethane | µg/l | 1 | ISO 17025 | - | - | - | < 1.0 | - |
| Cis-1,3-dichloropropene | µg/l | 1 | ISO 17025 | - | - | - | < 1.0 | - |

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**Analytical Report Number: 21-64519**
**Project / Site name: Brockhampton West, Havant**

**Your Order No: DS59990**

| **Lab Sample Number** | | | | 1813970 | 1813971 | 1813972 | 1813973 | 1813974 |
|---|---|---|---|---|---|---|---|---|
| **Sample Reference** | | | | RO106 | RO107 | RO108 | RO109 | DS101 |
| **Sample Number** | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| **Depth (m)** | | | | 16.60 | 14.80 | 13.10 | 14.50 | 11.20 |
| **Date Sampled** | | | | 23/03/2021 | 23/03/2021 | 23/03/2021 | 23/03/2021 | 23/03/2021 |
| **Time Taken** | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| **Analytical Parameter (Water Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | | | | | |
| Trans-1,3-dichloropropene | µg/l | 1 | ISO 17025 | - | - | - | < 1.0 | - |
| Toluene | µg/l | 1 | ISO 17025 | - | - | - | < 1.0 | - |
| 1,1,2-Trichloroethane | µg/l | 1 | ISO 17025 | - | - | - | < 1.0 | - |
| 1,3-Dichloropropane | µg/l | 1 | ISO 17025 | - | - | - | < 1.0 | - |
| Dibromochloromethane | µg/l | 1 | ISO 17025 | - | - | - | < 1.0 | - |
| Tetrachloroethene | µg/l | 1 | ISO 17025 | - | - | - | < 1.0 | - |
| 1,2-Dibromoethane | µg/l | 1 | ISO 17025 | - | - | - | < 1.0 | - |
| Chlorobenzene | µg/l | 1 | ISO 17025 | - | - | - | < 1.0 | - |
| 1,1,1,2-Tetrachloroethane | µg/l | 1 | ISO 17025 | - | - | - | < 1.0 | - |
| Ethylbenzene | µg/l | 1 | ISO 17025 | - | - | - | < 1.0 | - |
| p & m-Xylene | µg/l | 1 | ISO 17025 | - | - | - | < 1.0 | - |
| Styrene | µg/l | 1 | ISO 17025 | - | - | - | < 1.0 | - |
| Tribromomethane | µg/l | 1 | ISO 17025 | - | - | - | < 1.0 | - |
| o-Xylene | µg/l | 1 | ISO 17025 | - | - | - | < 1.0 | - |
| 1,1,2,2-Tetrachloroethane | µg/l | 1 | ISO 17025 | - | - | - | < 1.0 | - |
| Isopropylbenzene | µg/l | 1 | ISO 17025 | - | - | - | < 1.0 | - |
| Bromobenzene | µg/l | 1 | ISO 17025 | - | - | - | < 1.0 | - |
| n-Propylbenzene | µg/l | 1 | ISO 17025 | - | - | - | < 1.0 | - |
| 2-Chlorotoluene | µg/l | 1 | ISO 17025 | - | - | - | < 1.0 | - |
| 4-Chlorotoluene | µg/l | 1 | ISO 17025 | - | - | - | < 1.0 | - |
| 1,3,5-Trimethylbenzene | µg/l | 1 | ISO 17025 | - | - | - | < 1.0 | - |
| tert-Butylbenzene | µg/l | 1 | ISO 17025 | - | - | - | < 1.0 | - |
| 1,2,4-Trimethylbenzene | µg/l | 1 | ISO 17025 | - | - | - | < 1.0 | - |
| sec-Butylbenzene | µg/l | 1 | ISO 17025 | - | - | - | < 1.0 | - |
| 1,3-Dichlorobenzene | µg/l | 1 | ISO 17025 | - | - | - | < 1.0 | - |
| p-Isopropyltoluene | µg/l | 1 | ISO 17025 | - | - | - | < 1.0 | - |
| 1,2-Dichlorobenzene | µg/l | 1 | ISO 17025 | - | - | - | < 1.0 | - |
| 1,4-Dichlorobenzene | µg/l | 1 | ISO 17025 | - | - | - | < 1.0 | - |
| Butylbenzene | µg/l | 1 | ISO 17025 | - | - | - | < 1.0 | - |
| 1,2-Dibromo-3-chloropropane | µg/l | 1 | ISO 17025 | - | - | - | < 1.0 | - |
| 1,2,4-Trichlorobenzene | µg/l | 1 | ISO 17025 | - | - | - | < 1.0 | - |
| Hexachlorobutadiene | µg/l | 1 | ISO 17025 | - | - | - | < 1.0 | - |
| 1,2,3-Trichlorobenzene | µg/l | 1 | ISO 17025 | - | - | - | < 1.0 | - |

**SVOCs**

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Aniline | µg/l | 0.05 | NONE | - | - | - | < 0.05 | - |
| Phenol | µg/l | 0.05 | NONE | - | - | - | < 0.05 | - |
| 2-Chlorophenol | µg/l | 0.05 | NONE | - | - | - | < 0.05 | - |
| Bis(2-chloroethyl)ether | µg/l | 0.05 | NONE | - | - | - | < 0.05 | - |
| 1,3-Dichlorobenzene | µg/l | 0.05 | NONE | - | - | - | < 0.05 | - |
| 1,2-Dichlorobenzene | µg/l | 0.05 | NONE | - | - | - | < 0.05 | - |
| 1,4-Dichlorobenzene | µg/l | 0.05 | NONE | - | - | - | < 0.05 | - |
| Bis(2-chloroisopropyl)ether | µg/l | 0.05 | NONE | - | - | - | < 0.05 | - |
| 2-Methylphenol | µg/l | 0.05 | NONE | - | - | - | < 0.05 | - |
| Hexachloroethane | µg/l | 0.05 | NONE | - | - | - | < 0.05 | - |
| Nitrobenzene | µg/l | 0.05 | NONE | - | - | - | < 0.05 | - |
| 4-Methylphenol | µg/l | 0.05 | NONE | - | - | - | < 0.05 | - |
| Isophorone | µg/l | 0.05 | NONE | - | - | - | < 0.05 | - |
| 2-Nitrophenol | µg/l | 0.05 | NONE | - | - | - | < 0.05 | - |
| 2,4-Dimethylphenol | µg/l | 0.05 | NONE | - | - | - | < 0.05 | - |
| Bis(2-chloroethoxy)methane | µg/l | 0.05 | NONE | - | - | - | < 0.05 | - |
| 1,2,4-Trichlorobenzene | µg/l | 0.05 | NONE | - | - | - | < 0.05 | - |
| Naphthalene | µg/l | 0.01 | ISO 17025 | - | - | - | < 0.01 | - |

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**Analytical Report Number: 21-64519**
**Project / Site name: Brockhampton West, Havant**

**Your Order No: DS59990**

| Lab Sample Number | | | | 1813970 | 1813971 | 1813972 | 1813973 | 1813974 |
|---|---|---|---|---|---|---|---|---|
| Sample Reference | | | | RO106 | RO107 | RO108 | RO109 | DS101 |
| Sample Number | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Depth (m) | | | | 16.60 | 14.80 | 13.10 | 14.50 | 11.20 |
| Date Sampled | | | | 23/03/2021 | 23/03/2021 | 23/03/2021 | 23/03/2021 | 23/03/2021 |
| Time Taken | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Analytical Parameter (Water Analysis) | Units | Limit of detection | Accreditation Status | | | | | |
| 2,4-Dichlorophenol | µg/l | 0.05 | NONE | - | - | - | < 0.05 | - |
| 4-Chloroaniline | µg/l | 0.05 | NONE | - | - | - | < 0.05 | - |
| Hexachlorobutadiene | µg/l | 0.05 | NONE | - | - | - | < 0.05 | - |
| 4-Chloro-3-methylphenol | µg/l | 0.05 | NONE | - | - | - | < 0.05 | - |
| 2,4,6-Trichlorophenol | µg/l | 0.05 | NONE | - | - | - | < 0.05 | - |
| 2,4,5-Trichlorophenol | µg/l | 0.05 | NONE | - | - | - | < 0.05 | - |
| 2-Methylnaphthalene | µg/l | 0.05 | NONE | - | - | - | < 0.05 | - |
| 2-Chloronaphthalene | µg/l | 0.05 | NONE | - | - | - | < 0.05 | - |
| Dimethylphthalate | µg/l | 0.05 | NONE | - | - | - | < 0.05 | - |
| 2,6-Dinitrotoluene | µg/l | 0.05 | NONE | - | - | - | < 0.05 | - |
| Acenaphthylene | µg/l | 0.01 | ISO 17025 | - | - | - | < 0.01 | - |
| Acenaphthene | µg/l | 0.01 | ISO 17025 | - | - | - | < 0.01 | - |
| 2,4-Dinitrotoluene | µg/l | 0.05 | NONE | - | - | - | < 0.05 | - |
| Dibenzofuran | µg/l | 0.05 | NONE | - | - | - | < 0.05 | - |
| 4-Chlorophenyl phenyl ether | µg/l | 0.05 | NONE | - | - | - | < 0.05 | - |
| Diethyl phthalate | µg/l | 0.05 | NONE | - | - | - | < 0.05 | - |
| 4-Nitroaniline | µg/l | 0.05 | NONE | - | - | - | < 0.05 | - |
| Fluorene | µg/l | 0.01 | ISO 17025 | - | - | - | < 0.01 | - |
| Azobenzene | µg/l | 0.05 | NONE | - | - | - | < 0.05 | - |
| Bromophenyl phenyl ether | µg/l | 0.05 | NONE | - | - | - | < 0.05 | - |
| Hexachlorobenzene | µg/l | 0.05 | NONE | - | - | - | < 0.05 | - |
| Phenanthrene | µg/l | 0.01 | ISO 17025 | - | - | - | < 0.01 | - |
| Anthracene | µg/l | 0.01 | ISO 17025 | - | - | - | < 0.01 | - |
| Carbazole | µg/l | 0.05 | NONE | - | - | - | < 0.05 | - |
| Dibutyl phthalate | µg/l | 0.05 | NONE | - | - | - | < 0.05 | - |
| Anthraquinone | µg/l | 0.05 | NONE | - | - | - | < 0.05 | - |
| Fluoranthene | µg/l | 0.01 | ISO 17025 | - | - | - | < 0.01 | - |
| Pyrene | µg/l | 0.01 | ISO 17025 | - | - | - | < 0.01 | - |
| Butyl benzyl phthalate | µg/l | 0.05 | NONE | - | - | - | < 0.05 | - |
| Benzo(a)anthracene | µg/l | 0.01 | ISO 17025 | - | - | - | < 0.01 | - |
| Chrysene | µg/l | 0.01 | ISO 17025 | - | - | - | < 0.01 | - |
| Benzo(b)fluoranthene | µg/l | 0.01 | ISO 17025 | - | - | - | < 0.01 | - |
| Benzo(k)fluoranthene | µg/l | 0.01 | ISO 17025 | - | - | - | < 0.01 | - |
| Benzo(a)pyrene | µg/l | 0.01 | ISO 17025 | - | - | - | < 0.01 | - |
| Indeno(1,2,3-cd)pyrene | µg/l | 0.01 | ISO 17025 | - | - | - | < 0.01 | - |
| Dibenz(a,h)anthracene | µg/l | 0.01 | ISO 17025 | - | - | - | < 0.01 | - |
| Benzo(ghi)perylene | µg/l | 0.01 | ISO 17025 | - | - | - | < 0.01 | - |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 3&4-Methylphenol | µg/l | 0.1 | NONE | - | - | - | < 0.10 | - |

U/S = Unsuitable Sample  I/S = Insufficient Sample

*Over range data, sample was diluted and results are estimated from an extrapolated calibration. Results should be interpreted with care

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**Analytical Report Number: 21-64519**
**Project / Site name: Brockhampton West, Havant**

**Your Order No: DS59990**

| Lab Sample Number | | | | 1813975 | 1813976 | 1813977 | 1813978 | 1813979 |
|---|---|---|---|---|---|---|---|---|
| Sample Reference | | | | DS102 | DS103 | CP02A | CP03 | CP05 |
| Sample Number | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Depth (m) | | | | 11.20 | 9.70 | 8.50 | 8.00 | 8.70 |
| Date Sampled | | | | 23/03/2021 | 23/03/2021 | 23/03/2021 | 23/03/2021 | 23/03/2021 |
| Time Taken | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| **Analytical Parameter (Water Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | | | | | |
| **General Inorganics** | | | | | | | | |
| pH | pH Units | N/A | ISO 17025 | 7.1 | 7.1 | 6.9 | 6.8 | 6.7 |
| Sulphate as SO4 | µg/l | 45 | ISO 17025 | 23800 | 12200 | 30800 | 11100 | 11300 |
| Total Sulphur | µg/l | 15 | NONE | - | - | - | - | - |
| Chloride | mg/l | 0.15 | ISO 17025 | 2100 | 460 | 160 | 150 | 96 |
| Ammoniacal Nitrogen as NH3 | µg/l | 15 | ISO 17025 | 170000 | 76000 | 45000 | 26000 | 55000 |
| Ammoniacal Nitrogen as NH4 | µg/l | 15 | ISO 17025 | - | - | - | - | - |
| Nitrate as N | mg/l | 0.01 | ISO 17025 | 0.43 | 0.16 | 0.12 | 0.18 | 0.12 |
| Nitrate as NO3 | mg/l | 0.05 | ISO 17025 | 1.92 | 0.73 | 0.52 | 0.78 | 0.52 |
| Nitrite as N | µg/l | 1 | ISO 17025 | 20 | 15 | < 1.0 | 6.3 | < 1.0 |
| Nitrite as NO2 | µg/l | 5 | ISO 17025 | 66 | 50 | < 5.0 | 21 | < 5.0 |
| **Total Phenols** | | | | | | | | |
| Total Phenols (monohydric) | µg/l | 10 | ISO 17025 | < 10 | - | - | - | - |
| **Speciated PAHs** | | | | | | | | |
| Naphthalene | µg/l | 0.01 | ISO 17025 | 0.93 | 0.65 | < 0.01 | < 0.01 | < 0.01 |
| Acenaphthylene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Acenaphthene | µg/l | 0.01 | ISO 17025 | 0.72 | 0.85 | 0.32 | 0.42 | 1.87 |
| Fluorene | µg/l | 0.01 | ISO 17025 | 0.44 | 0.56 | 0.22 | < 0.01 | 0.95 |
| Phenanthrene | µg/l | 0.01 | ISO 17025 | 0.53 | 0.77 | < 0.01 | < 0.01 | 0.23 |
| Anthracene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Fluoranthene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Pyrene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Benzo(a)anthracene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Chrysene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Benzo(b)fluoranthene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Benzo(k)fluoranthene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Benzo(a)pyrene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Indeno(1,2,3-cd)pyrene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Dibenz(a,h)anthracene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Benzo(ghi)perylene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| **Total PAH** | | | | | | | | |
| Total EPA-16 PAHs | µg/l | 0.16 | ISO 17025 | 2.62 | 2.83 | 0.54 | 0.42 | 3.05 |
| **Heavy Metals / Metalloids** | | | | | | | | |
| Chromium (hexavalent) | µg/l | 5 | ISO 17025 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 |
| Magnesium (dissolved) | mg/l | 0.005 | ISO 17025 | - | - | - | - | - |
| Arsenic (dissolved) | µg/l | 0.15 | ISO 17025 | 16.2 | 6.12 | 3.72 | 1.46 | 3.33 |
| Cadmium (dissolved) | µg/l | 0.02 | ISO 17025 | 0.03 | < 0.02 | < 0.02 | < 0.02 | < 0.02 |
| Chromium (dissolved) | µg/l | 0.2 | ISO 17025 | 13 | 9.9 | 12 | 13 | 15 |
| Copper (dissolved) | µg/l | 0.5 | ISO 17025 | 7.0 | 3.6 | 2.4 | 1.7 | 1.4 |
| Lead (dissolved) | µg/l | 0.2 | ISO 17025 | < 0.2 | < 0.2 | < 0.2 | < 0.2 | 0.5 |
| Mercury (dissolved) | µg/l | 0.05 | ISO 17025 | < 0.05 | 0.19 | < 0.05 | < 0.05 | < 0.05 |
| Nickel (dissolved) | µg/l | 0.5 | ISO 17025 | 130 | 37 | 16 | 4.1 | 29 |
| Zinc (dissolved) | µg/l | 0.5 | ISO 17025 | 5.4 | 13 | 16 | 7.1 | 9.4 |

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**Analytical Report Number: 21-64519**
**Project / Site name: Brockhampton West, Havant**

**Your Order No: DS59990**

| Lab Sample Number | | | | 1813975 | 1813976 | 1813977 | 1813978 | 1813979 |
|---|---|---|---|---|---|---|---|---|
| Sample Reference | | | | DS102 | DS103 | CP02A | CP03 | CP05 |
| Sample Number | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Depth (m) | | | | 11.20 | 9.70 | 8.50 | 8.00 | 8.70 |
| Date Sampled | | | | 23/03/2021 | 23/03/2021 | 23/03/2021 | 23/03/2021 | 23/03/2021 |
| Time Taken | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| **Analytical Parameter (Water Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | | | | | |
| **Monoaromatics & Oxygenates** | | | | | | | | |
| Benzene | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| Toluene | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| Ethylbenzene | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| p & m-xylene | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| o-xylene | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| MTBE (Methyl Tertiary Butyl Ether) | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| **Petroleum Hydrocarbons** | | | | | | | | |
| TPH-CWG - Aliphatic >C5 - C6 | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| TPH-CWG - Aliphatic >C6 - C8 | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| TPH-CWG - Aliphatic >C8 - C10 | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| Aliphatic >C10 - C12 | µg/l | 10 | ISO 17025 | < 10 | < 10 | < 10 | < 10 | < 10 |
| Aliphatic >C12 - C16 | µg/l | 10 | ISO 17025 | 20 | 10 | < 10 | < 10 | 14 |
| Aliphatic >C16 - C21 | µg/l | 10 | ISO 17025 | 32 | 12 | < 10 | < 10 | 11 |
| Aliphatic >C21 - C35 | µg/l | 10 | ISO 17025 | 150 | 95 | < 10 | < 10 | 140 |
| Aliphatic >C10 - C35 | µg/l | 10 | ISO 17025 | 200 | 120 | < 10 | < 10 | 160 |
| TPH-CWG - Aromatic >C5 - C7 | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| TPH-CWG - Aromatic >C7 - C8 | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| TPH-CWG - Aromatic >C8 - C10 | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| Aromatic >C10 - C12 | µg/l | 10 | ISO 17025 | 230 | 65 | < 10 | < 10 | 53 |
| Aromatic >C12 - C16 | µg/l | 10 | ISO 17025 | 270 | 88 | < 10 | < 10 | 74 |
| Aromatic >C16 - C21 | µg/l | 10 | ISO 17025 | 130 | 51 | < 10 | < 10 | 34 |
| Aromatic >C21 - C35 | µg/l | 10 | ISO 17025 | 280 | 200 | < 10 | < 10 | 220 |
| Aromatic >C10 - C35 | µg/l | 10 | ISO 17025 | 920 | 400 | < 10 | < 10 | 380 |
| **VOCs** | | | | | | | | |
| Chloromethane | µg/l | 1 | ISO 17025 | < 1.0 | - | - | - | - |
| Chloroethane | µg/l | 1 | ISO 17025 | < 1.0 | - | - | - | - |
| Bromomethane | µg/l | 1 | ISO 17025 | < 1.0 | - | - | - | - |
| Vinyl Chloride | µg/l | 1 | NONE | < 1.0 | - | - | - | - |
| Trichlorofluoromethane | µg/l | 1 | NONE | < 1.0 | - | - | - | - |
| 1,1-Dichloroethene | µg/l | 1 | ISO 17025 | < 1.0 | - | - | - | - |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | µg/l | 1 | ISO 17025 | < 1.0 | - | - | - | - |
| Cis-1,2-dichloroethene | µg/l | 1 | ISO 17025 | < 1.0 | - | - | - | - |
| MTBE (Methyl Tertiary Butyl Ether) | µg/l | 1 | ISO 17025 | < 1.0 | - | - | - | - |
| 1,1-Dichloroethane | µg/l | 1 | ISO 17025 | < 1.0 | - | - | - | - |
| 2,2-Dichloropropane | µg/l | 1 | ISO 17025 | < 1.0 | - | - | - | - |
| Trichloromethane | µg/l | 1 | ISO 17025 | < 1.0 | - | - | - | - |
| 1,1,1-Trichloroethane | µg/l | 1 | ISO 17025 | < 1.0 | - | - | - | - |
| 1,2-Dichloroethane | µg/l | 1 | ISO 17025 | < 1.0 | - | - | - | - |
| 1,1-Dichloropropene | µg/l | 1 | ISO 17025 | < 1.0 | - | - | - | - |
| Trans-1,2-dichloroethene | µg/l | 1 | ISO 17025 | < 1.0 | - | - | - | - |
| Benzene | µg/l | 1 | ISO 17025 | < 1.0 | - | - | - | - |
| Tetrachloromethane | µg/l | 1 | ISO 17025 | < 1.0 | - | - | - | - |
| 1,2-Dichloropropane | µg/l | 1 | ISO 17025 | < 1.0 | - | - | - | - |
| Trichloroethene | µg/l | 1 | ISO 17025 | < 1.0 | - | - | - | - |
| Dibromomethane | µg/l | 1 | ISO 17025 | < 1.0 | - | - | - | - |
| Bromodichloromethane | µg/l | 1 | ISO 17025 | < 1.0 | - | - | - | - |
| Cis-1,3-dichloropropene | µg/l | 1 | ISO 17025 | < 1.0 | - | - | - | - |

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**Analytical Report Number: 21-64519**
**Project / Site name: Brockhampton West, Havant**

**Your Order No: DS59990**

| **Lab Sample Number** | | | | 1813975 | 1813976 | 1813977 | 1813978 | 1813979 |
|---|---|---|---|---|---|---|---|---|
| **Sample Reference** | | | | DS102 | DS103 | CP02A | CP03 | CP05 |
| **Sample Number** | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| **Depth (m)** | | | | 11.20 | 9.70 | 8.50 | 8.00 | 8.70 |
| **Date Sampled** | | | | 23/03/2021 | 23/03/2021 | 23/03/2021 | 23/03/2021 | 23/03/2021 |
| **Time Taken** | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| **Analytical Parameter (Water Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | | | | | |
| Trans-1,3-dichloropropene | µg/l | 1 | ISO 17025 | < 1.0 | - | - | - | - |
| Toluene | µg/l | 1 | ISO 17025 | < 1.0 | - | - | - | - |
| 1,1,2-Trichloroethane | µg/l | 1 | ISO 17025 | < 1.0 | - | - | - | - |
| 1,3-Dichloropropane | µg/l | 1 | ISO 17025 | < 1.0 | - | - | - | - |
| Dibromochloromethane | µg/l | 1 | ISO 17025 | < 1.0 | - | - | - | - |
| Tetrachloroethene | µg/l | 1 | ISO 17025 | < 1.0 | - | - | - | - |
| 1,2-Dibromoethane | µg/l | 1 | ISO 17025 | < 1.0 | - | - | - | - |
| Chlorobenzene | µg/l | 1 | ISO 17025 | < 1.0 | - | - | - | - |
| 1,1,1,2-Tetrachloroethane | µg/l | 1 | ISO 17025 | < 1.0 | - | - | - | - |
| Ethylbenzene | µg/l | 1 | ISO 17025 | < 1.0 | - | - | - | - |
| p & m-Xylene | µg/l | 1 | ISO 17025 | < 1.0 | - | - | - | - |
| Styrene | µg/l | 1 | ISO 17025 | < 1.0 | - | - | - | - |
| Tribromomethane | µg/l | 1 | ISO 17025 | < 1.0 | - | - | - | - |
| o-Xylene | µg/l | 1 | ISO 17025 | < 1.0 | - | - | - | - |
| 1,1,2,2-Tetrachloroethane | µg/l | 1 | ISO 17025 | < 1.0 | - | - | - | - |
| Isopropylbenzene | µg/l | 1 | ISO 17025 | < 1.0 | - | - | - | - |
| Bromobenzene | µg/l | 1 | ISO 17025 | < 1.0 | - | - | - | - |
| n-Propylbenzene | µg/l | 1 | ISO 17025 | < 1.0 | - | - | - | - |
| 2-Chlorotoluene | µg/l | 1 | ISO 17025 | 2.5 | - | - | - | - |
| 4-Chlorotoluene | µg/l | 1 | ISO 17025 | < 1.0 | - | - | - | - |
| 1,3,5-Trimethylbenzene | µg/l | 1 | ISO 17025 | < 1.0 | - | - | - | - |
| tert-Butylbenzene | µg/l | 1 | ISO 17025 | < 1.0 | - | - | - | - |
| 1,2,4-Trimethylbenzene | µg/l | 1 | ISO 17025 | < 1.0 | - | - | - | - |
| sec-Butylbenzene | µg/l | 1 | ISO 17025 | < 1.0 | - | - | - | - |
| 1,3-Dichlorobenzene | µg/l | 1 | ISO 17025 | < 1.0 | - | - | - | - |
| p-Isopropyltoluene | µg/l | 1 | ISO 17025 | < 1.0 | - | - | - | - |
| 1,2-Dichlorobenzene | µg/l | 1 | ISO 17025 | < 1.0 | - | - | - | - |
| 1,4-Dichlorobenzene | µg/l | 1 | ISO 17025 | < 1.0 | - | - | - | - |
| Butylbenzene | µg/l | 1 | ISO 17025 | < 1.0 | - | - | - | - |
| 1,2-Dibromo-3-chloropropane | µg/l | 1 | ISO 17025 | < 1.0 | - | - | - | - |
| 1,2,4-Trichlorobenzene | µg/l | 1 | ISO 17025 | < 1.0 | - | - | - | - |
| Hexachlorobutadiene | µg/l | 1 | ISO 17025 | < 1.0 | - | - | - | - |
| 1,2,3-Trichlorobenzene | µg/l | 1 | ISO 17025 | < 1.0 | - | - | - | - |

**SVOCs**

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Aniline | µg/l | 0.05 | NONE | < 0.05 | - | - | - | - |
| Phenol | µg/l | 0.05 | NONE | < 0.05 | - | - | - | - |
| 2-Chlorophenol | µg/l | 0.05 | NONE | < 0.05 | - | - | - | - |
| Bis(2-chloroethyl)ether | µg/l | 0.05 | NONE | < 0.05 | - | - | - | - |
| 1,3-Dichlorobenzene | µg/l | 0.05 | NONE | < 0.05 | - | - | - | - |
| 1,2-Dichlorobenzene | µg/l | 0.05 | NONE | < 0.05 | - | - | - | - |
| 1,4-Dichlorobenzene | µg/l | 0.05 | NONE | 1.2 | - | - | - | - |
| Bis(2-chloroisopropyl)ether | µg/l | 0.05 | NONE | < 0.05 | - | - | - | - |
| 2-Methylphenol | µg/l | 0.05 | NONE | < 0.05 | - | - | - | - |
| Hexachloroethane | µg/l | 0.05 | NONE | < 0.05 | - | - | - | - |
| Nitrobenzene | µg/l | 0.05 | NONE | < 0.05 | - | - | - | - |
| 4-Methylphenol | µg/l | 0.05 | NONE | 2.3 | - | - | - | - |
| Isophorone | µg/l | 0.05 | NONE | < 0.05 | - | - | - | - |
| 2-Nitrophenol | µg/l | 0.05 | NONE | < 0.05 | - | - | - | - |
| 2,4-Dimethylphenol | µg/l | 0.05 | NONE | < 0.05 | - | - | - | - |
| Bis(2-chloroethoxy)methane | µg/l | 0.05 | NONE | < 0.05 | - | - | - | - |
| 1,2,4-Trichlorobenzene | µg/l | 0.05 | NONE | < 0.05 | - | - | - | - |
| Naphthalene | µg/l | 0.01 | ISO 17025 | 0.93 | - | - | - | - |

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The results included within the report relate only to the sample(s) submitted for testing.

**Analytical Report Number: 21-64519**
**Project / Site name: Brockhampton West, Havant**

**Your Order No: DS59990**

| Lab Sample Number | | | | 1813975 | 1813976 | 1813977 | 1813978 | 1813979 |
|---|---|---|---|---|---|---|---|---|
| Sample Reference | | | | DS102 | DS103 | CP02A | CP03 | CP05 |
| Sample Number | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Depth (m) | | | | 11.20 | 9.70 | 8.50 | 8.00 | 8.70 |
| Date Sampled | | | | 23/03/2021 | 23/03/2021 | 23/03/2021 | 23/03/2021 | 23/03/2021 |
| Time Taken | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Analytical Parameter (Water Analysis) | Units | Limit of detection | Accreditation Status | | | | | |
| 2,4-Dichlorophenol | µg/l | 0.05 | NONE | < 0.05 | - | - | - | - |
| 4-Chloroaniline | µg/l | 0.05 | NONE | < 0.05 | - | - | - | - |
| Hexachlorobutadiene | µg/l | 0.05 | NONE | < 0.05 | - | - | - | - |
| 4-Chloro-3-methylphenol | µg/l | 0.05 | NONE | < 0.05 | - | - | - | - |
| 2,4,6-Trichlorophenol | µg/l | 0.05 | NONE | < 0.05 | - | - | - | - |
| 2,4,5-Trichlorophenol | µg/l | 0.05 | NONE | < 0.05 | - | - | - | - |
| 2-Methylnaphthalene | µg/l | 0.05 | NONE | 1.1 | - | - | - | - |
| 2-Chloronaphthalene | µg/l | 0.05 | NONE | < 0.05 | - | - | - | - |
| Dimethylphthalate | µg/l | 0.05 | NONE | < 0.05 | - | - | - | - |
| 2,6-Dinitrotoluene | µg/l | 0.05 | NONE | < 0.05 | - | - | - | - |
| Acenaphthylene | µg/l | 0.01 | ISO 17025 | < 0.01 | - | - | - | - |
| Acenaphthene | µg/l | 0.01 | ISO 17025 | 0.72 | - | - | - | - |
| 2,4-Dinitrotoluene | µg/l | 0.05 | NONE | < 0.05 | - | - | - | - |
| Dibenzofuran | µg/l | 0.05 | NONE | 0.31 | - | - | - | - |
| 4-Chlorophenyl phenyl ether | µg/l | 0.05 | NONE | < 0.05 | - | - | - | - |
| Diethyl phthalate | µg/l | 0.05 | NONE | < 0.05 | - | - | - | - |
| 4-Nitroaniline | µg/l | 0.05 | NONE | < 0.05 | - | - | - | - |
| Fluorene | µg/l | 0.01 | ISO 17025 | 0.44 | - | - | - | - |
| Azobenzene | µg/l | 0.05 | NONE | < 0.05 | - | - | - | - |
| Bromophenyl phenyl ether | µg/l | 0.05 | NONE | < 0.05 | - | - | - | - |
| Hexachlorobenzene | µg/l | 0.05 | NONE | < 0.05 | - | - | - | - |
| Phenanthrene | µg/l | 0.01 | ISO 17025 | 0.53 | - | - | - | - |
| Anthracene | µg/l | 0.01 | ISO 17025 | < 0.01 | - | - | - | - |
| Carbazole | µg/l | 0.05 | NONE | < 0.05 | - | - | - | - |
| Dibutyl phthalate | µg/l | 0.05 | NONE | < 0.05 | - | - | - | - |
| Anthraquinone | µg/l | 0.05 | NONE | < 0.05 | - | - | - | - |
| Fluoranthene | µg/l | 0.01 | ISO 17025 | < 0.01 | - | - | - | - |
| Pyrene | µg/l | 0.01 | ISO 17025 | < 0.01 | - | - | - | - |
| Butyl benzyl phthalate | µg/l | 0.05 | NONE | < 0.05 | - | - | - | - |
| Benzo(a)anthracene | µg/l | 0.01 | ISO 17025 | < 0.01 | - | - | - | - |
| Chrysene | µg/l | 0.01 | ISO 17025 | < 0.01 | - | - | - | - |
| Benzo(b)fluoranthene | µg/l | 0.01 | ISO 17025 | < 0.01 | - | - | - | - |
| Benzo(k)fluoranthene | µg/l | 0.01 | ISO 17025 | < 0.01 | - | - | - | - |
| Benzo(a)pyrene | µg/l | 0.01 | ISO 17025 | < 0.01 | - | - | - | - |
| Indeno(1,2,3-cd)pyrene | µg/l | 0.01 | ISO 17025 | < 0.01 | - | - | - | - |
| Dibenz(a,h)anthracene | µg/l | 0.01 | ISO 17025 | < 0.01 | - | - | - | - |
| Benzo(ghi)perylene | µg/l | 0.01 | ISO 17025 | < 0.01 | - | - | - | - |
| 3&4-Methylphenol | µg/l | 0.1 | NONE | 2.3 | - | - | - | - |

U/S = Unsuitable Sample  I/S = Insufficient Sample

*Over range data, sample was diluted and results are estimated from an extrapolated calibration. Results should be interpreted with care

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The results included within the report relate only to the sample(s) submitted for testing.

**Analytical Report Number : 21-64519**
**Project / Site name: Brockhampton West, Havant**

**Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)**

| Analytical Test Name | Analytical Method Description | Analytical Method Reference | Method number | Wet / Dry Analysis | Accreditation Status |
|---|---|---|---|---|---|
| Metals in water by ICP-MS (dissolved) | Determination of metals in water by acidification followed by ICP-MS. Accredited Matrices: SW, GW, PW except B=SW,GW, Hg=SW,PW, Al=SW,PW. | In-house method based on USEPA Method 6020 & 200.8 "for the determination of trace elements in water by ICP-MS. | L012-PL | W | ISO 17025 |
| Metals in water by ICP-OES (dissolved) | Determination of metals in water by acidification followed by ICP-OES. Accredited Matrices SW, GW, PW, PrW.(Al, Cu,Fe,Zn). | In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil. | L039-PL | W | ISO 17025 |
| Hexavalent chromium in water | Determination of hexavalent chromium in water by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry. | In-house method by continuous flow analyser. Accredited Matrices SW, GW, PW. | L080-PL | W | ISO 17025 |
| Monohydric phenols in water | Determination of phenols in water by continuous flow analyser. Accredited matrices: SW PW GW | In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar) | L080-PL | W | ISO 17025 |
| Nitrite in water | Determination of nitrite in water by addition of sulphanilamide and NED followed by discrete analyser (colorimetry).Accredited matrices SW, GW, PW. | In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton | L082-PL | W | ISO 17025 |
| Nitrate in water | Determination of nitrate by reaction with sodium salicylate and colorimetry. Accredited matrices SW, GW, PW | In-house method based on Examination of Water and Wastewatern & Polish Standard Method PN-82/C-04579.08, | L078-PL | W | ISO 17025 |
| Speciated EPA-16 PAHs in water | Determination of PAH compounds in water by extraction in dichloromethane followed by GC-MS with the use of surrogate and internal standards. Accredited matrices: SW PW GW | In-house method based on USEPA 8270 | L102B-PL | W | ISO 17025 |
| Sulphate in water | Determination of sulphate in water by acidification followed by ICP-OES. Accredited matrices: SW PW GW, PrW. | In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil. | L039-PL | W | ISO 17025 |
| Total Sulphur in water | Determination of total sulphur in water by acidification followed by ICP-OES. | In-house method based on MEWAM 1986 Methods for the Determination of Metals in Soil"" | L039-PL | W | NONE |
| Semi-volatile organic compounds in water | Determination of semi-volatile organic compounds in leachate by extraction in dichloromethane followed by GC-MS. | In-house method based on USEPA 8270 | L102B-PL | W | NONE |
| TPHCWG (Waters) | Determination of dichloromethane extractable hydrocarbons in water by GC-MS, speciation by interpretation. | In-house method | L070-PL | W | ISO 17025 |
| Volatile organic compounds in water | Determination of volatile organic compounds in water by headspace GC-MS. Accredited matrices: SW PW GW | In-house method based on USEPA8260 | L073B-PL | W | ISO 17025 |
| TPH C10-C35 by GCxGC-FID | Determination of total petroleum hydrocarbons in water by GC x GC FID with carbon banding aliphatic and aromatic C10-C35. Accredited Matrices SW,GW,PW. | In-house method | L101B-PL | W | ISO 17025 |
| BTEX and MTBE in water (Monoaromatics) | Determination of BTEX and MTBE in water by headspace GC-MS. Accredited matrices: SW PW GW | In-house method based on USEPA8260 | L073B-PL | W | ISO 17025 |
| Ammonia as NH3 in water | Determination of Ammonium/Ammonia/ Ammoniacal Nitrogen by the colorimetric salicylate/nitroprusside method. Accredited matrices SW, GW, PW. | In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton | L082-PL | W | ISO 17025 |
| Ammonium as NH4 in water | Determination of Ammonium/Ammonia/ Ammoniacal Nitrogen by the colorimetric salicylate/nitroprusside method. Accredited matrices SW, GW, PW. | In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton | L082-PL | W | ISO 17025 |
| Nitrite as N in water | Determination of nitrite in water by addition of sulphanilamide and NED followed by discrete analyser (colorimetry). Accredited matrices SW, GW, PW. | In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton | L082-PL | W | ISO 17025 |

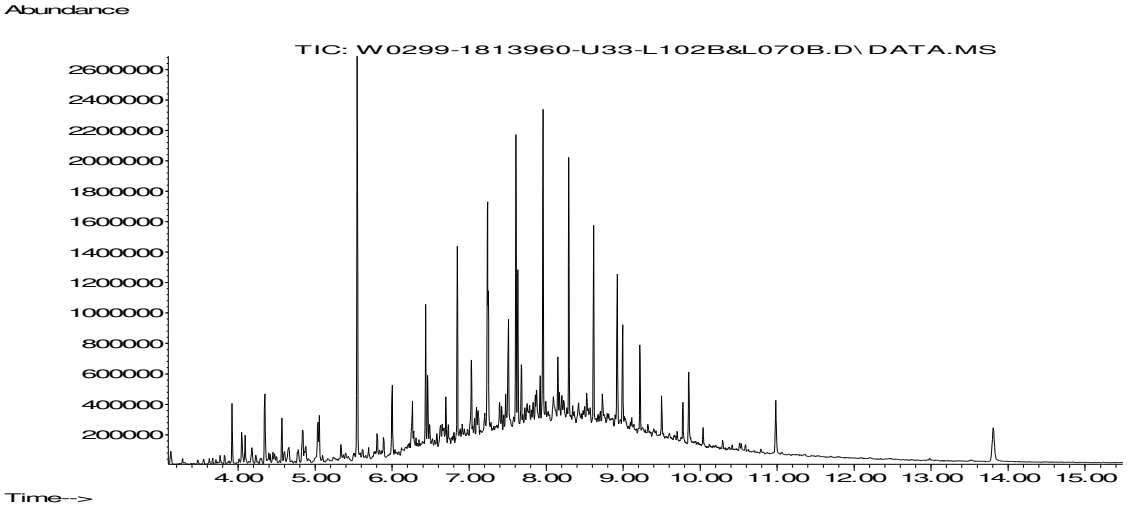
**Analytical Report Number : 21-64519**
**Project / Site name: Brockhampton West, Havant**

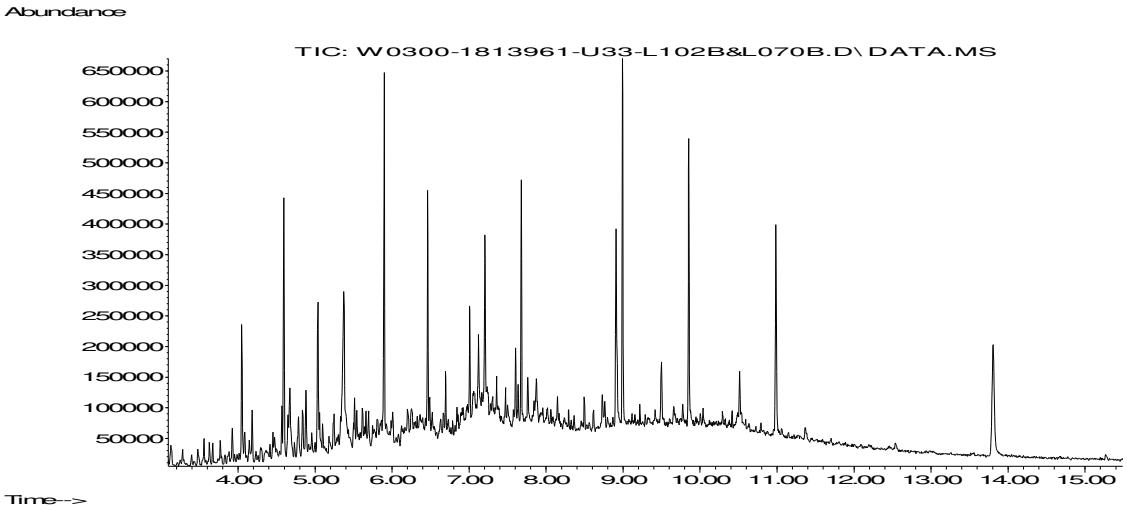
**Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)**

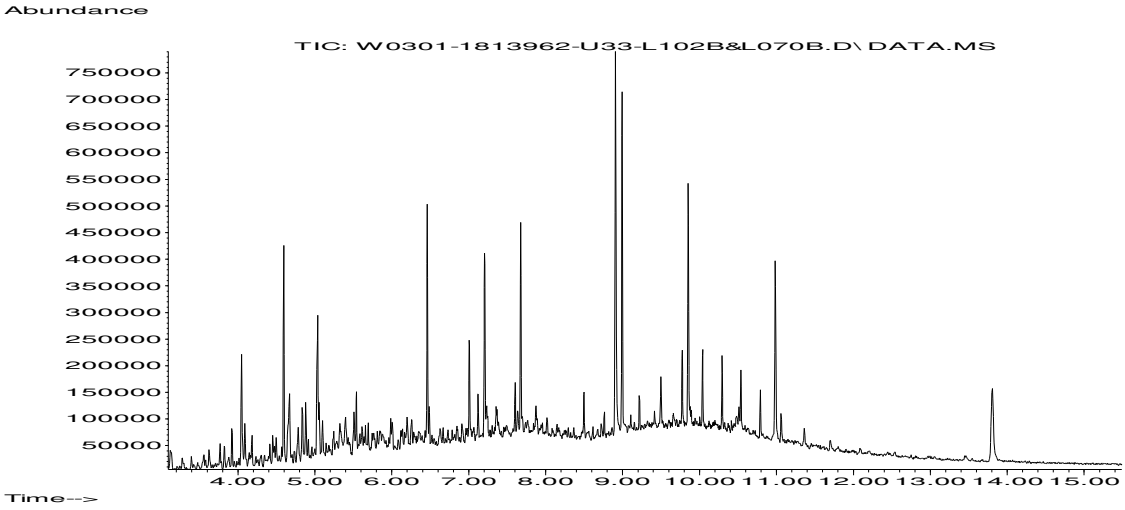
| Analytical Test Name | Analytical Method Description | Analytical Method Reference | Method number | Wet / Dry Analysis | Accreditation Status |
|---|---|---|---|---|---|
| Nitrate as N in water | Determination of nitrate by reaction with sodium salicylate and colorimetry. Accredited matrices SW, GW, PW. | In-house method based on Examination of Water and Wastewatern & Polish Standard Method PN-82/C-04579.08, | L078-PL | W | ISO 17025 |
| TPH Chromatogram in Water | TPH Chromatogram in Water. | In-house method | L070-PL | W | NONE |
| pH at 20oC in water (automated) | Determination of pH in water by electrometric measurement. Accredited matrices: SW PW GW | In house method. | L099-PL | W | ISO 17025 |
| Chloride in water | Determination of Chloride colorimetrically by discrete analyser. | In house based on MEWAM Method ISBN 0117516260. Accredited matrices: SW, PW, GW. | L082-PL | W | ISO 17025 |

**For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.**
**For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.**
**Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.**

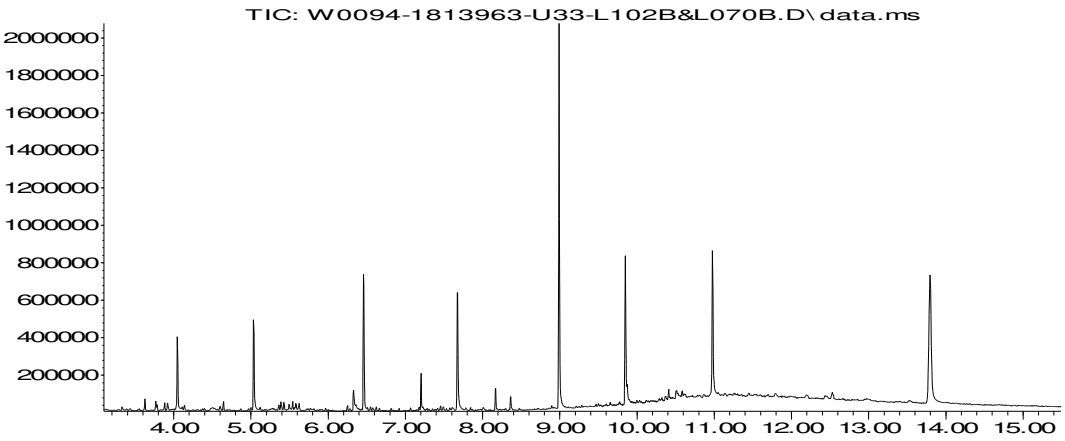
**Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.**


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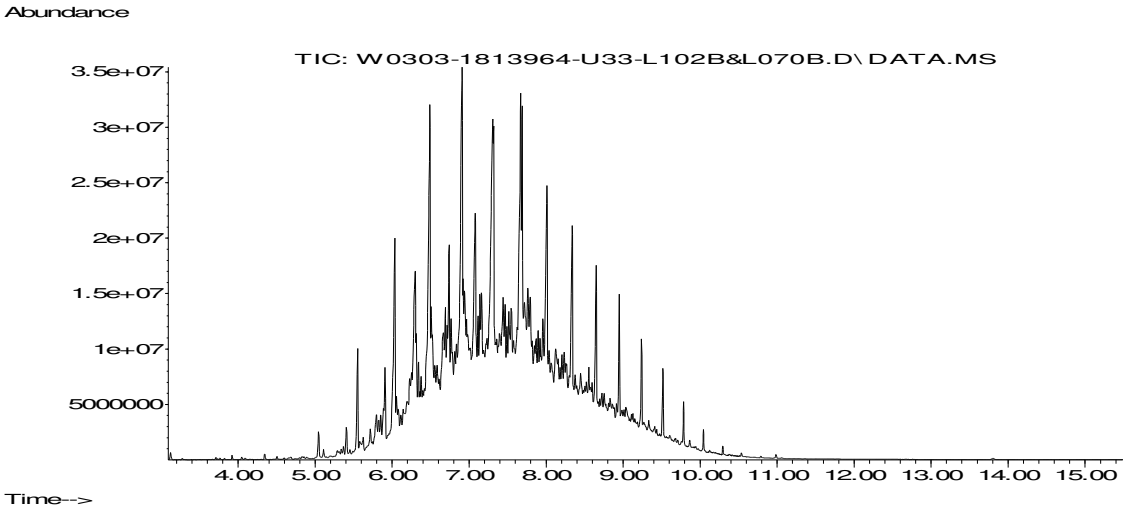

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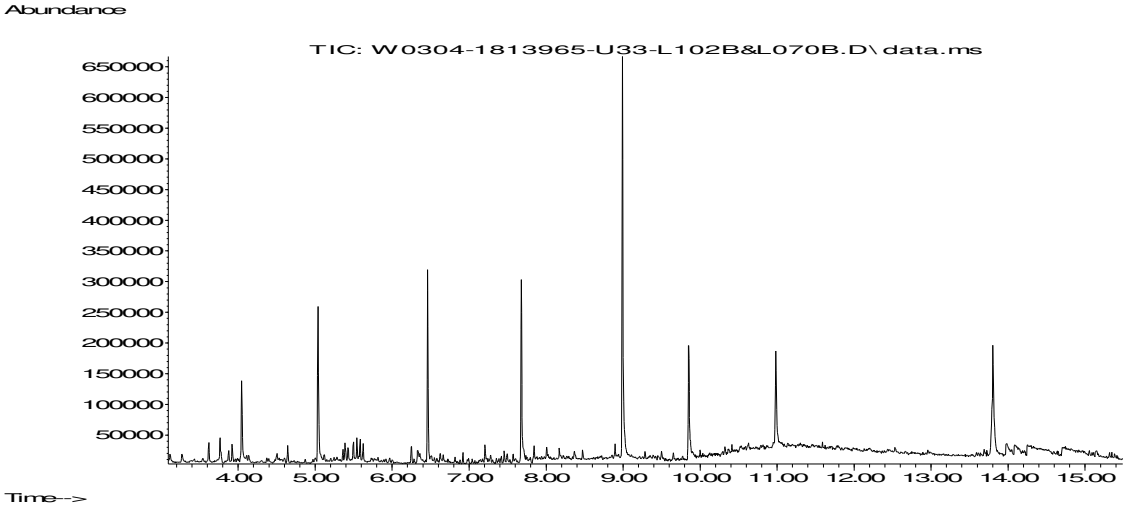

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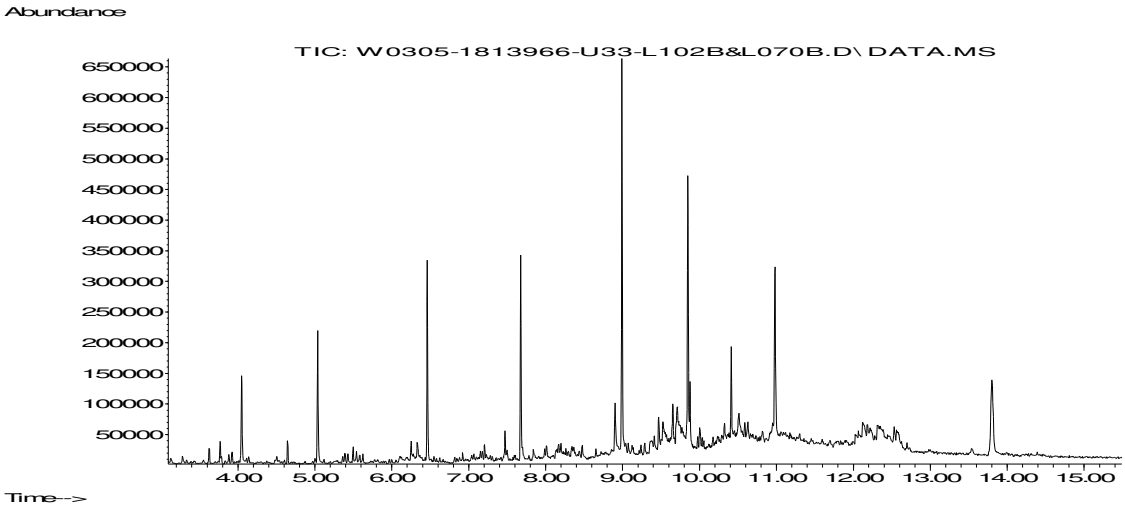
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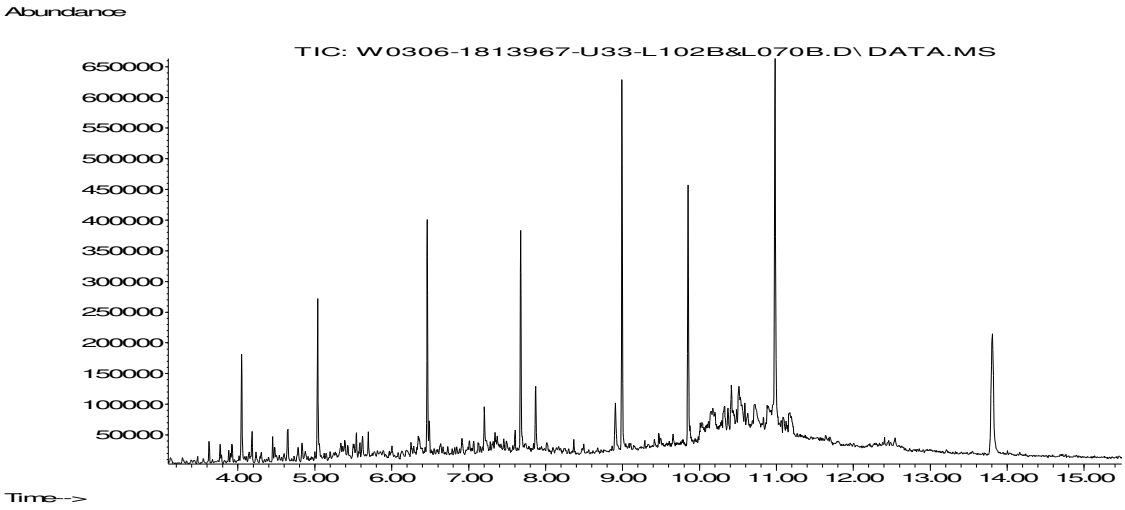


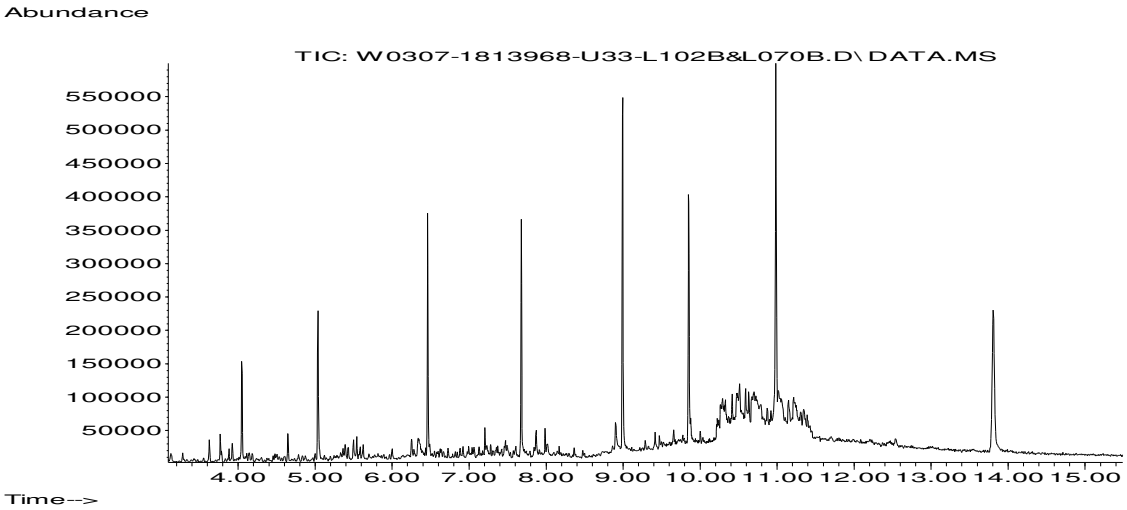

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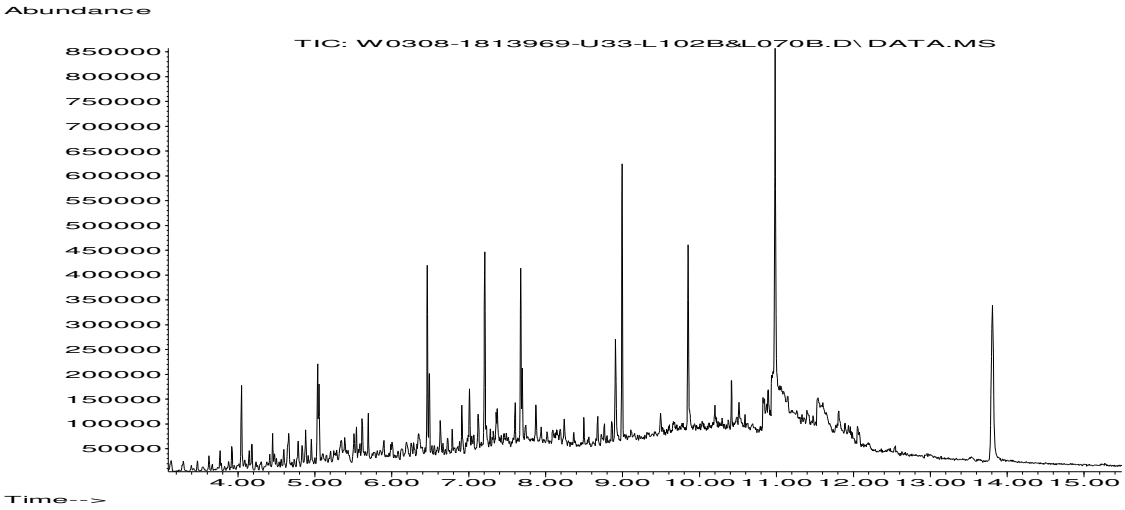

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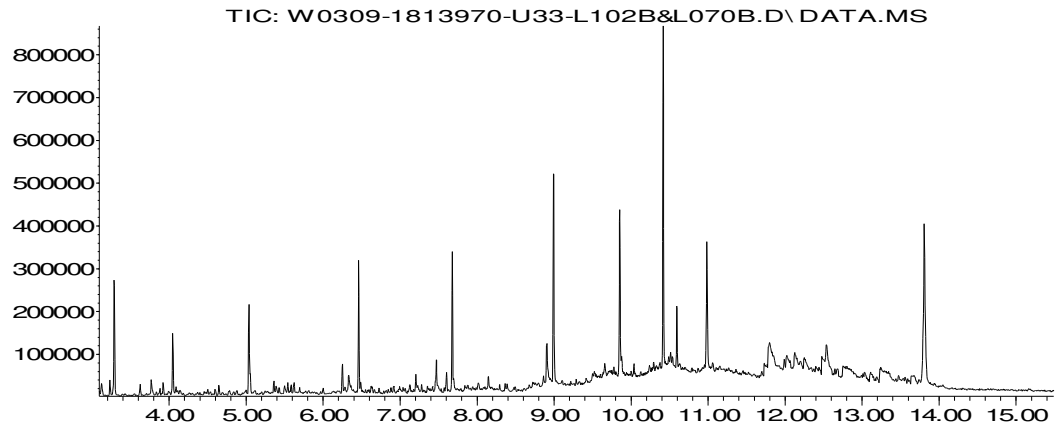

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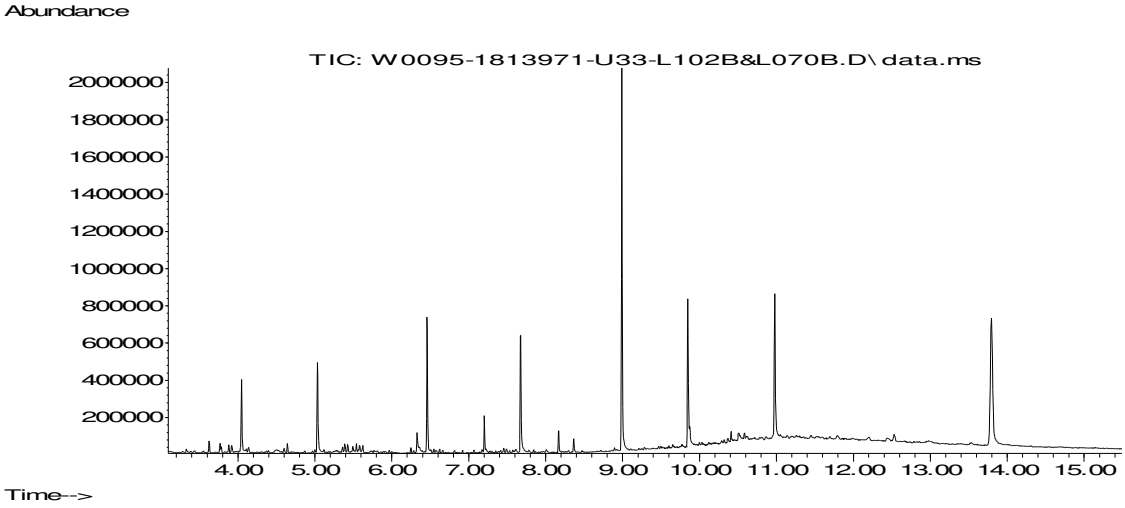

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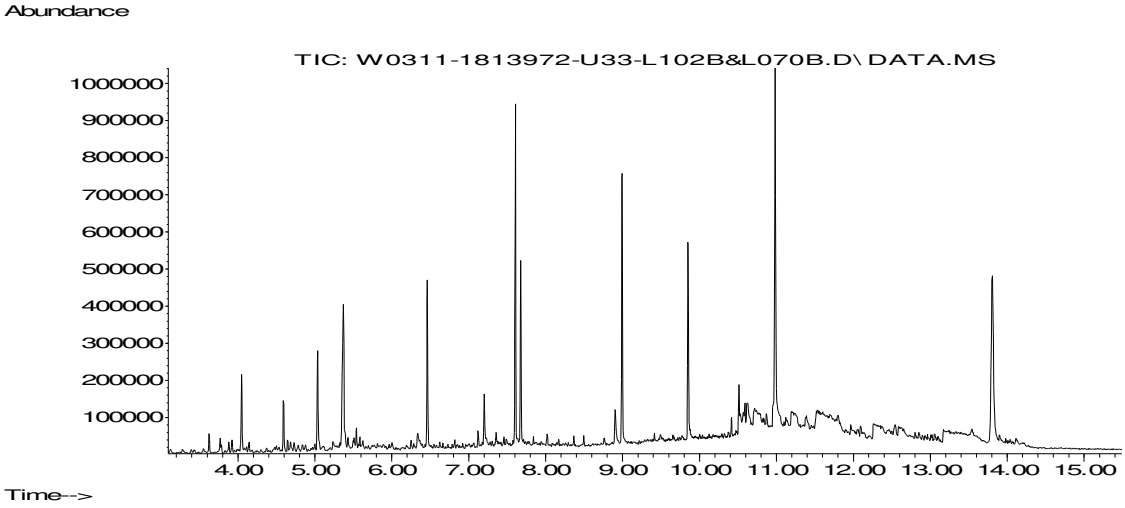

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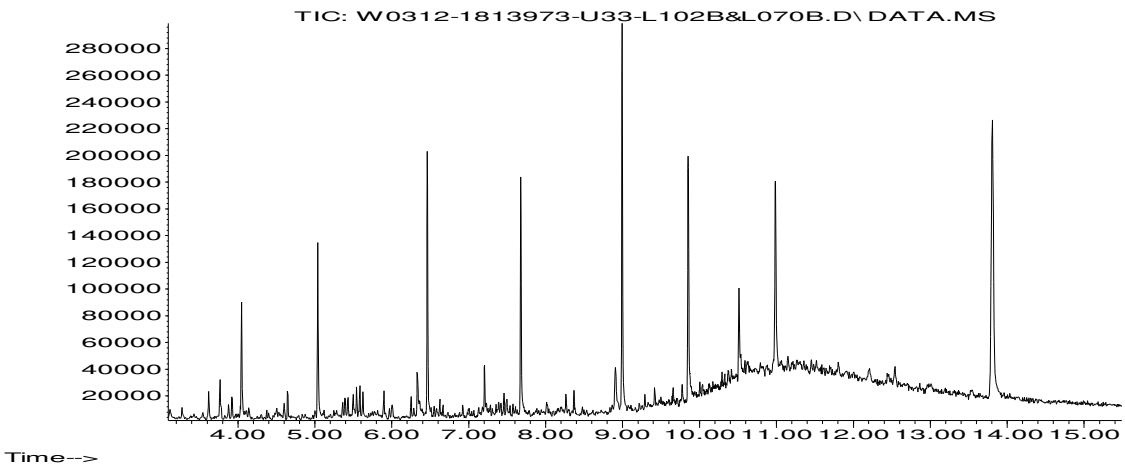
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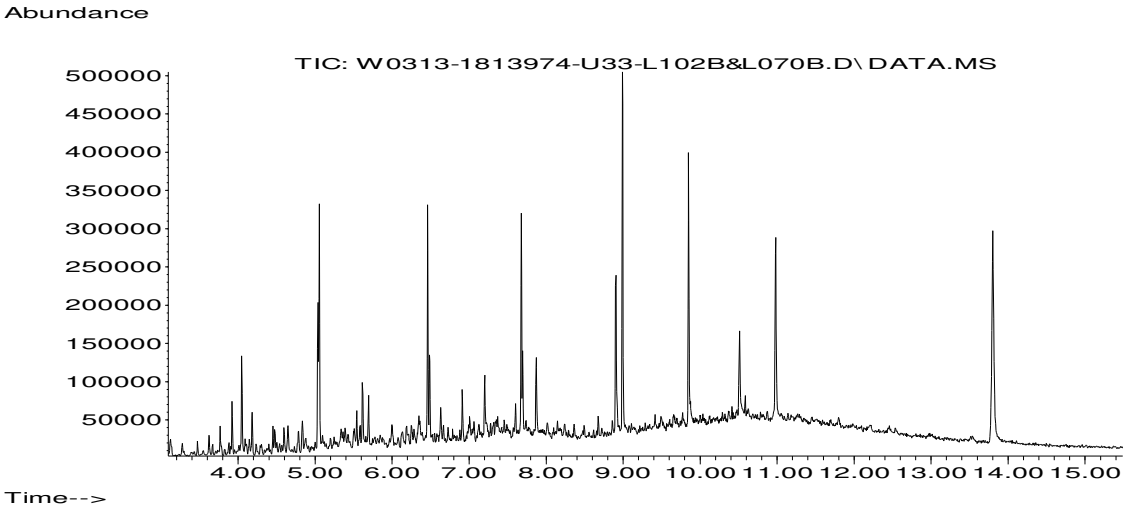


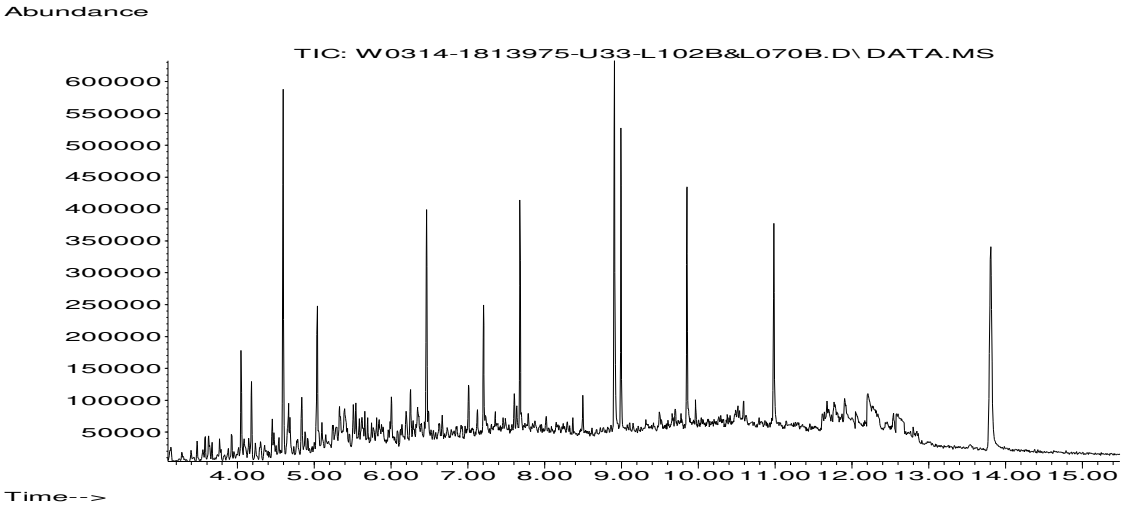

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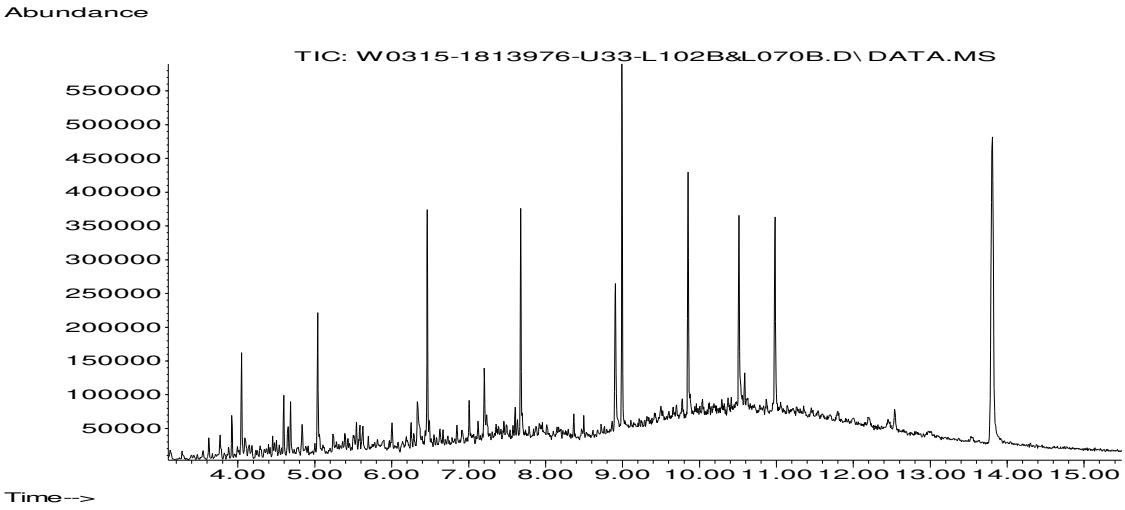

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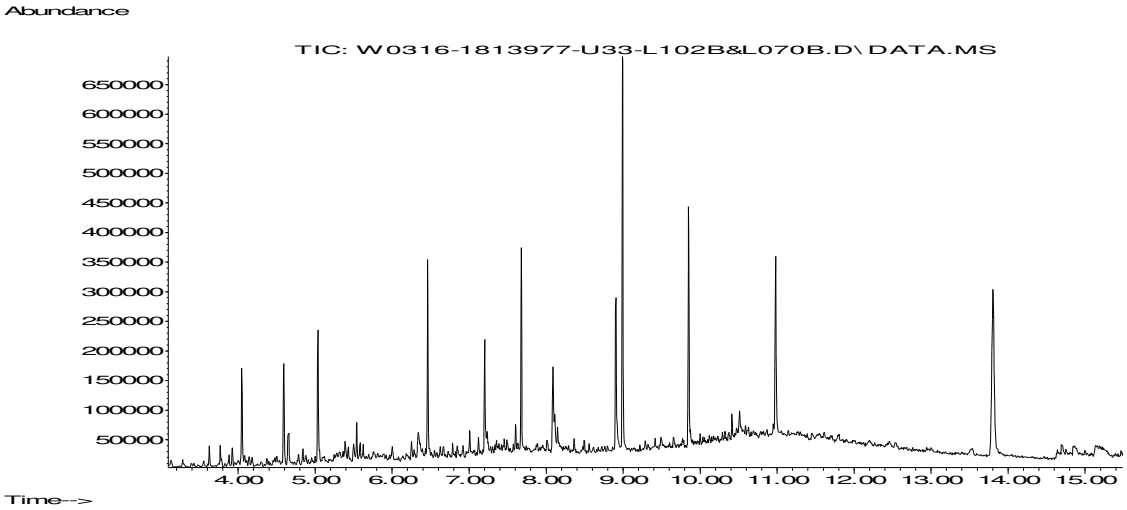

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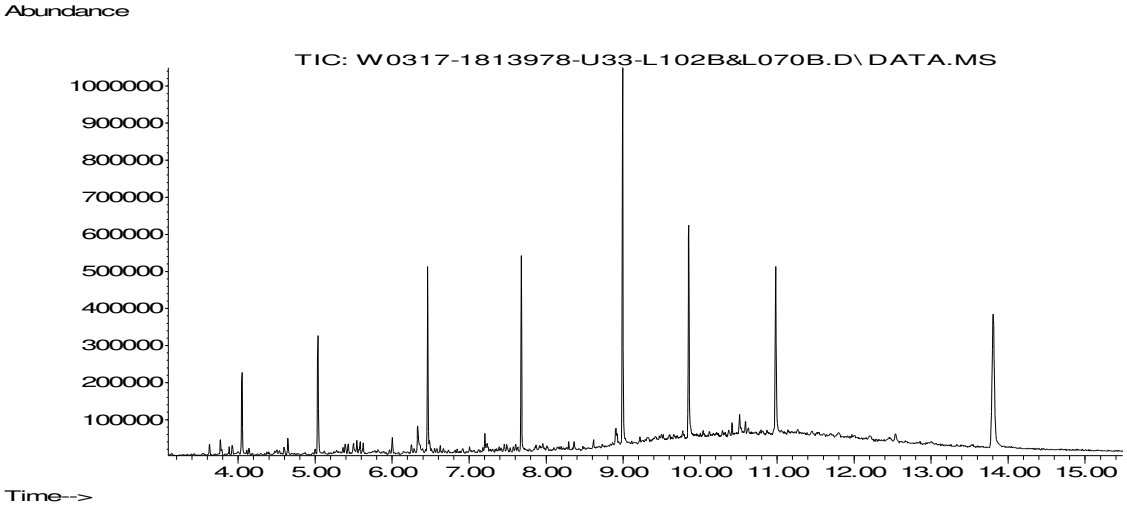

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Time-->

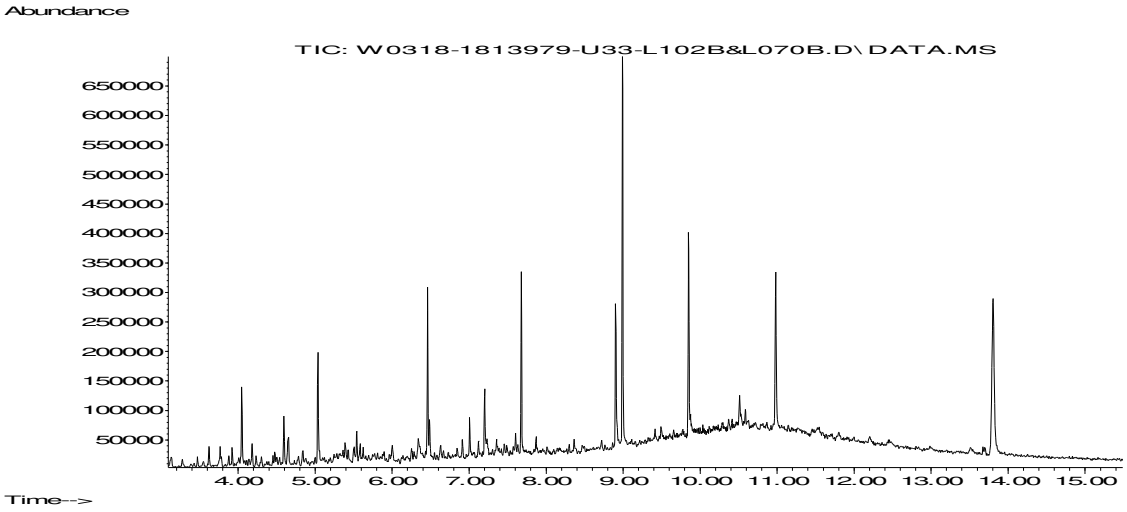

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Time-->


Abundance
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550000
500000
450000
400000
350000
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250000
200000
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Time-->


Abundance
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200000
150000
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15.00
Time-->


Abundance
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250000
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50000
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6.00
7.00
8.00
9.00
10.00
11.00
12.00
13.00
14.00
15.00
Time-->


Abundance
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800000
700000
600000
500000
400000
300000
200000
100000
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15.00
Time-->


Abundance
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4.00
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Time-->

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# Analytical Report Number : 21-64761

Replaces Analytical Report Number: 21-64761, issue no. 1
Additional analysis undertaken.

| | | | |
|---|---|---|---|
| **Project / Site name:** | Brockhampton West, Havant | **Samples received on:** | 22/03/2021 |
| **Your job number:** | 19-2099.04 | **Samples instructed on/ Analysis started on:** | 25/03/2021 |
| **Your order number:** | DS59329 | **Analysis completed by:** | 09/04/2021 |
| **Report Issue Number:** | 2 | **Report issued on:** | 12/04/2021 |
| **Samples Analysed:** | 18 soil samples | | |

**Signed:**

Joanna Wawrzeczko
Technical Reviewer (Reporting Team)
**For & on behalf of i2 Analytical Ltd.**

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils - 4 weeks from reporting
leachates - 2 weeks from reporting
waters - 2 weeks from reporting
asbestos - 6 months from reporting

Excel copies of reports are only valid when accompanied by this PDF certificate.

Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement.
Application of uncertainty of measurement would provide a range within which the true result lies.
An estimate of measurement uncertainty can be provided on request.

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The results included within the report are representative of the samples submitted for analysis.

**Analytical Report Number: 21-64761**
**Project / Site name: Brockhampton West, Havant**
**Your Order No: DS59329**

| Lab Sample Number | | | | 1815230 | 1815231 | 1815232 | 1815233 | 1815234 |
|---|---|---|---|---|---|---|---|---|
| Sample Reference | | | | RO105 | RO105 | RO105 | RO105 | RO105 |
| Sample Number | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Depth (m) | | | | 0.00-0.15 | 0.20-0.40 | 2.00-3.00 | 5.00-6.00 | 6.00-7.00 |
| Date Sampled | | | | 10/03/2021 | 10/03/2021 | 10/03/2021 | 10/03/2021 | 10/03/2021 |
| Time Taken | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| **Analytical Parameter (Soil Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | | | | | |
| Stone Content | % | 0.1 | NONE | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Moisture Content | % | 0.01 | NONE | 15 | 4.0 | 25 | 25 | 32 |
| Total mass of sample received | kg | 0.001 | NONE | 0.90 | 1.0 | 1.0 | 1.0 | 1.0 |
| Asbestos in Soil | Type | N/A | ISO 17025 | - | Not-detected | Not-detected | - | - |
| **General Inorganics** | | | | | | | | |
| pH - Automated | pH Units | N/A | MCERTS | - | 7.8 | 7.3 | 8.3 | 8.7 |
| Total Sulphate as SO4 | % | 0.005 | MCERTS | - | - | - | 0.142 | 0.165 |
| Water Soluble Sulphate as SO4 16hr extraction (2:1) | mg/kg | 2.5 | MCERTS | - | 110 | 1400 | 850 | 1000 |
| Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent) | g/l | 0.00125 | MCERTS | - | 0.057 | 0.72 | 0.43 | 0.50 |
| Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent) | mg/l | 1.25 | MCERTS | - | 57.3 | 717 | 426 | 502 |
| Total Sulphur | % | 0.005 | MCERTS | - | - | - | 0.171 | 0.156 |
| Organic Matter | % | 0.1 | MCERTS | 2.9 | 1.3 | - | - | - |
| **Phenols by GC-MS** | | | | | | | | |
| Phenol | mg/kg | 0.2 | NONE | - | - | < 0.2 | - | < 0.2 |
| 2,4,5-Trichlorophenol | mg/kg | 0.2 | NONE | - | - | < 0.2 | - | < 0.2 |
| 2,4,6-Trichlorophenol | mg/kg | 0.1 | NONE | - | - | < 0.1 | - | < 0.1 |
| 2,4-Dichlorophenol | mg/kg | 0.3 | NONE | - | - | < 0.3 | - | < 0.3 |
| 2,4-Dimethylphenol | mg/kg | 0.3 | NONE | - | - | < 0.3 | - | < 0.3 |
| 2-Chlorophenol | mg/kg | 0.1 | NONE | - | - | < 0.1 | - | < 0.1 |
| 2-Methylphenol | mg/kg | 0.3 | MCERTS | - | - | < 0.3 | - | < 0.3 |
| 2-Nitrophenol | mg/kg | 0.3 | NONE | - | - | < 0.3 | - | < 0.3 |
| 4-Chloro-3-methylphenol | mg/kg | 0.1 | ISO 17025 | - | - | < 0.1 | - | < 0.1 |
| 4-Methylphenol | mg/kg | 0.2 | NONE | - | - | < 0.2 | - | < 0.2 |
| **Total Phenols** | | | | | | | | |
| Total Phenols (GC-MS) | mg/kg | 1 | NONE | - | - | < 1.0 | - | < 1.0 |
| **Speciated PAHs** | | | | | | | | |
| Naphthalene | mg/kg | 0.05 | MCERTS | - | < 0.05 | 0.48 | - | - |
| Acenaphthylene | mg/kg | 0.05 | MCERTS | - | < 0.05 | < 0.05 | - | - |
| Acenaphthene | mg/kg | 0.05 | MCERTS | - | 0.29 | 0.84 | - | - |
| Fluorene | mg/kg | 0.05 | MCERTS | - | 0.32 | 1.3 | - | - |
| Phenanthrene | mg/kg | 0.05 | MCERTS | - | 0.91 | 7.2 | - | - |
| Anthracene | mg/kg | 0.05 | MCERTS | - | < 0.05 | 1.4 | - | - |
| Fluoranthene | mg/kg | 0.05 | MCERTS | - | 0.64 | 6.2 | - | - |
| Pyrene | mg/kg | 0.05 | MCERTS | - | 0.48 | 5.2 | - | - |
| Benzo(a)anthracene | mg/kg | 0.05 | MCERTS | - | 0.30 | 3.6 | - | - |
| Chrysene | mg/kg | 0.05 | MCERTS | - | 0.20 | 2.4 | - | - |
| Benzo(b)fluoranthene | mg/kg | 0.05 | MCERTS | - | < 0.05 | 3.0 | - | - |
| Benzo(k)fluoranthene | mg/kg | 0.05 | MCERTS | - | < 0.05 | 1.3 | - | - |
| Benzo(a)pyrene | mg/kg | 0.05 | MCERTS | - | < 0.05 | 2.5 | - | - |
| Indeno(1,2,3-cd)pyrene | mg/kg | 0.05 | MCERTS | - | < 0.05 | 0.96 | - | - |
| Dibenz(a,h)anthracene | mg/kg | 0.05 | MCERTS | - | < 0.05 | < 0.05 | - | - |
| Benzo(ghi)perylene | mg/kg | 0.05 | MCERTS | - | < 0.05 | 1.2 | - | - |
| **Total PAH** | | | | | | | | |
| Speciated Total EPA-16 PAHs | mg/kg | 0.8 | MCERTS | - | 3.14 | 37.6 | - | - |

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**Analytical Report Number: 21-64761**
**Project / Site name: Brockhampton West, Havant**
**Your Order No: DS59329**

| Lab Sample Number | | | | 1815230 | 1815231 | 1815232 | 1815233 | 1815234 |
|---|---|---|---|---|---|---|---|---|
| Sample Reference | | | | RO105 | RO105 | RO105 | RO105 | RO105 |
| Sample Number | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Depth (m) | | | | 0.00-0.15 | 0.20-0.40 | 2.00-3.00 | 5.00-6.00 | 6.00-7.00 |
| Date Sampled | | | | 10/03/2021 | 10/03/2021 | 10/03/2021 | 10/03/2021 | 10/03/2021 |
| Time Taken | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| **Analytical Parameter (Soil Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | | | | | |
| **Heavy Metals / Metalloids** | | | | | | | | |
| Arsenic (aqua regia extractable) | mg/kg | 1 | MCERTS | - | 12 | 14 | - | - |
| Cadmium (aqua regia extractable) | mg/kg | 0.2 | MCERTS | - | < 0.2 | 2.5 | - | - |
| Chromium (hexavalent) | mg/kg | 1.2 | MCERTS | - | < 1.2 | < 1.2 | - | - |
| Chromium (III) | mg/kg | 1 | NONE | - | - | - | - | - |
| Chromium (aqua regia extractable) | mg/kg | 1 | MCERTS | - | 12 | 32 | - | - |
| Copper (aqua regia extractable) | mg/kg | 1 | MCERTS | - | 19 | 96 | - | - |
| Lead (aqua regia extractable) | mg/kg | 1 | MCERTS | - | 28 | 270 | - | - |
| Mercury (aqua regia extractable) | mg/kg | 0.3 | MCERTS | - | < 0.3 | < 0.3 | - | - |
| Nickel (aqua regia extractable) | mg/kg | 1 | MCERTS | - | 11 | 41 | - | - |
| Zinc (aqua regia extractable) | mg/kg | 1 | MCERTS | - | 46 | 440 | - | - |
| **Monoaromatics & Oxygenates** | | | | | | | | |
| Benzene | mg/kg | 0.001 | MCERTS | - | < 0.001 | < 0.001 | - | < 0.001 |
| Toluene | mg/kg | 0.001 | MCERTS | - | < 0.001 | < 0.001 | - | < 0.001 |
| Ethylbenzene | mg/kg | 0.001 | MCERTS | - | < 0.001 | < 0.001 | - | < 0.001 |
| p & m-xylene | mg/kg | 0.001 | MCERTS | - | < 0.001 | < 0.001 | - | < 0.001 |
| o-xylene | mg/kg | 0.001 | MCERTS | - | < 0.001 | < 0.001 | - | < 0.001 |
| MTBE (Methyl Tertiary Butyl Ether) | mg/kg | 0.001 | MCERTS | - | < 0.001 | < 0.001 | - | < 0.001 |
| **Petroleum Hydrocarbons** | | | | | | | | |
| TPH C10 - C40 | mg/kg | 10 | MCERTS | - | - | - | - | - |
| TPH-CWG - Aliphatic >EC5 - EC6 | mg/kg | 0.001 | MCERTS | - | < 0.001 | < 0.001 | - | < 0.001 |
| TPH-CWG - Aliphatic >EC6 - EC8 | mg/kg | 0.001 | MCERTS | - | < 0.001 | < 0.001 | - | < 0.001 |
| TPH-CWG - Aliphatic >EC8 - EC10 | mg/kg | 0.001 | MCERTS | - | < 0.001 | < 0.001 | - | < 0.001 |
| TPH-CWG - Aliphatic >EC10 - EC12 | mg/kg | 1 | MCERTS | - | 10 | 6.6 | - | 5.2 |
| TPH-CWG - Aliphatic >EC12 - EC16 | mg/kg | 2 | MCERTS | - | 13 | 12 | - | 17 |
| TPH-CWG - Aliphatic >EC16 - EC21 | mg/kg | 8 | MCERTS | - | 11 | 33 | - | 91 |
| TPH-CWG - Aliphatic >EC21 - EC35 | mg/kg | 8 | MCERTS | - | 37 | 360 | - | 1700 |
| TPH-CWG - Aliphatic >EC35 - EC40 | mg/kg | 10 | NONE | - | < 10 | 77 | - | 360 |
| TPH-CWG - Aliphatic (EC5 - EC35) | mg/kg | 10 | MCERTS | - | 72 | 410 | - | 1800 |
| TPH-CWG - Aromatic >EC5 - EC7 | mg/kg | 0.001 | MCERTS | - | < 0.001 | < 0.001 | - | < 0.001 |
| TPH-CWG - Aromatic >EC7 - EC8 | mg/kg | 0.001 | MCERTS | - | < 0.001 | < 0.001 | - | < 0.001 |
| TPH-CWG - Aromatic >EC8 - EC10 | mg/kg | 0.001 | MCERTS | - | < 0.001 | < 0.001 | - | < 0.001 |
| TPH-CWG - Aromatic >EC10 - EC12 | mg/kg | 1 | MCERTS | - | 7.1 | 5.7 | - | 9.6 |
| TPH-CWG - Aromatic >EC12 - EC16 | mg/kg | 2 | MCERTS | - | 16 | 13 | - | 30 |
| TPH-CWG - Aromatic >EC16 - EC21 | mg/kg | 10 | MCERTS | - | 14 | 26 | - | 120 |
| TPH-CWG - Aromatic >EC21 - EC35 | mg/kg | 10 | MCERTS | - | 33 | 140 | - | 490 |
| TPH-CWG - Aromatic >EC35 - EC40 | mg/kg | 10 | NONE | - | < 10 | 32 | - | 150 |
| TPH-CWG - Aromatic (EC5 - EC35) | mg/kg | 10 | MCERTS | - | 70 | 180 | - | 660 |
| TPH (C35 - C40) | mg/kg | 10 | MCERTS | - | < 10 | < 10 | - | < 10 |

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**Analytical Report Number: 21-64761**
**Project / Site name: Brockhampton West, Havant**
**Your Order No: DS59329**

| Lab Sample Number | | | | 1815230 | 1815231 | 1815232 | 1815233 | 1815234 |
|---|---|---|---|---|---|---|---|---|
| Sample Reference | | | | RO105 | RO105 | RO105 | RO105 | RO105 |
| Sample Number | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Depth (m) | | | | 0.00-0.15 | 0.20-0.40 | 2.00-3.00 | 5.00-6.00 | 6.00-7.00 |
| Date Sampled | | | | 10/03/2021 | 10/03/2021 | 10/03/2021 | 10/03/2021 | 10/03/2021 |
| Time Taken | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| **Analytical Parameter (Soil Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | | | | | |
| **VOCs** | | | | | | | | |
| Chloromethane | mg/kg | 0.001 | ISO 17025 | - | - | - | - | < 0.0010 |
| Chloroethane | mg/kg | 0.001 | NONE | - | - | - | - | < 0.0010 |
| Bromomethane | mg/kg | 0.001 | ISO 17025 | - | - | - | - | < 0.0010 |
| Vinyl Chloride | mg/kg | 0.001 | NONE | - | - | - | - | < 0.0010 |
| Trichlorofluoromethane | mg/kg | 0.001 | NONE | - | - | - | - | < 0.0010 |
| 1,1-Dichloroethene | mg/kg | 0.001 | NONE | - | - | - | - | < 0.0010 |
| 1,1,2-Trichloro 1,2,2-Trifluoroethane | mg/kg | 0.001 | ISO 17025 | - | - | - | - | < 0.0010 |
| Cis-1,2-dichloroethene | mg/kg | 0.001 | MCERTS | - | - | - | - | < 0.0010 |
| MTBE (Methyl Tertiary Butyl Ether) | mg/kg | 0.001 | MCERTS | - | - | - | - | < 0.0010 |
| 1,1-Dichloroethane | mg/kg | 0.001 | MCERTS | - | - | - | - | < 0.0010 |
| 2,2-Dichloropropane | mg/kg | 0.001 | MCERTS | - | - | - | - | < 0.0010 |
| Trichloromethane | mg/kg | 0.001 | MCERTS | - | - | - | - | < 0.0010 |
| 1,1,1-Trichloroethane | mg/kg | 0.001 | MCERTS | - | - | - | - | < 0.0010 |
| 1,2-Dichloroethane | mg/kg | 0.001 | MCERTS | - | - | - | - | < 0.0010 |
| 1,1-Dichloropropene | mg/kg | 0.001 | MCERTS | - | - | - | - | < 0.0010 |
| Trans-1,2-dichloroethene | mg/kg | 0.001 | NONE | - | - | - | - | < 0.0010 |
| Benzene | mg/kg | 0.001 | MCERTS | - | - | - | - | < 0.0010 |
| Tetrachloromethane | mg/kg | 0.001 | MCERTS | - | - | - | - | < 0.0010 |
| 1,2-Dichloropropane | mg/kg | 0.001 | MCERTS | - | - | - | - | < 0.0010 |
| Trichloroethene | mg/kg | 0.001 | MCERTS | - | - | - | - | < 0.0010 |
| Dibromomethane | mg/kg | 0.001 | MCERTS | - | - | - | - | < 0.0010 |
| Bromodichloromethane | mg/kg | 0.001 | MCERTS | - | - | - | - | < 0.0010 |
| Cis-1,3-dichloropropene | mg/kg | 0.001 | ISO 17025 | - | - | - | - | < 0.0010 |
| Trans-1,3-dichloropropene | mg/kg | 0.001 | ISO 17025 | - | - | - | - | < 0.0010 |
| Toluene | mg/kg | 0.001 | MCERTS | - | - | - | - | < 0.0010 |
| 1,1,2-Trichloroethane | mg/kg | 0.001 | MCERTS | - | - | - | - | < 0.0010 |
| 1,3-Dichloropropane | mg/kg | 0.001 | ISO 17025 | - | - | - | - | < 0.0010 |
| Dibromochloromethane | mg/kg | 0.001 | ISO 17025 | - | - | - | - | < 0.0010 |
| Tetrachloroethene | mg/kg | 0.001 | NONE | - | - | - | - | < 0.0010 |
| 1,2-Dibromoethane | mg/kg | 0.001 | ISO 17025 | - | - | - | - | < 0.0010 |
| Chlorobenzene | mg/kg | 0.001 | MCERTS | - | - | - | - | < 0.0010 |
| 1,1,1,2-Tetrachloroethane | mg/kg | 0.001 | MCERTS | - | - | - | - | < 0.0010 |
| Ethylbenzene | mg/kg | 0.001 | MCERTS | - | - | - | - | < 0.0010 |
| p & m-Xylene | mg/kg | 0.001 | MCERTS | - | - | - | - | < 0.0010 |
| Styrene | mg/kg | 0.001 | MCERTS | - | - | - | - | < 0.0010 |
| Tribromomethane | mg/kg | 0.001 | NONE | - | - | - | - | < 0.0010 |
| o-Xylene | mg/kg | 0.001 | MCERTS | - | - | - | - | < 0.0010 |
| 1,1,2,2-Tetrachloroethane | mg/kg | 0.001 | MCERTS | - | - | - | - | < 0.0010 |
| Isopropylbenzene | mg/kg | 0.001 | MCERTS | - | - | - | - | < 0.0010 |
| Bromobenzene | mg/kg | 0.001 | MCERTS | - | - | - | - | < 0.0010 |
| n-Propylbenzene | mg/kg | 0.001 | ISO 17025 | - | - | - | - | < 0.0010 |
| 2-Chlorotoluene | mg/kg | 0.001 | MCERTS | - | - | - | - | < 0.0010 |
| 4-Chlorotoluene | mg/kg | 0.001 | MCERTS | - | - | - | - | < 0.0010 |
| 1,3,5-Trimethylbenzene | mg/kg | 0.001 | ISO 17025 | - | - | - | - | < 0.0010 |
| tert-Butylbenzene | mg/kg | 0.001 | MCERTS | - | - | - | - | < 0.0010 |
| 1,2,4-Trimethylbenzene | mg/kg | 0.001 | ISO 17025 | - | - | - | - | < 0.0010 |
| sec-Butylbenzene | mg/kg | 0.001 | MCERTS | - | - | - | - | < 0.0010 |
| 1,3-Dichlorobenzene | mg/kg | 0.001 | ISO 17025 | - | - | - | - | < 0.0010 |
| p-Isopropyltoluene | mg/kg | 0.001 | ISO 17025 | - | - | - | - | < 0.0010 |
| 1,2-Dichlorobenzene | mg/kg | 0.001 | MCERTS | - | - | - | - | < 0.0010 |
| 1,4-Dichlorobenzene | mg/kg | 0.001 | MCERTS | - | - | - | - | < 0.0010 |
| Butylbenzene | mg/kg | 0.001 | MCERTS | - | - | - | - | < 0.0010 |

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**Analytical Report Number: 21-64761**
**Project / Site name: Brockhampton West, Havant**
**Your Order No: DS59329**

| Lab Sample Number | | | | 1815230 | 1815231 | 1815232 | 1815233 | 1815234 |
|---|---|---|---|---|---|---|---|---|
| Sample Reference | | | | RO105 | RO105 | RO105 | RO105 | RO105 |
| Sample Number | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Depth (m) | | | | 0.00-0.15 | 0.20-0.40 | 2.00-3.00 | 5.00-6.00 | 6.00-7.00 |
| Date Sampled | | | | 10/03/2021 | 10/03/2021 | 10/03/2021 | 10/03/2021 | 10/03/2021 |
| Time Taken | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| **Analytical Parameter (Soil Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | | | | | |
| 1,2-Dibromo-3-chloropropane | mg/kg | 0.001 | ISO 17025 | - | - | - | - | < 0.0010 |
| 1,2,4-Trichlorobenzene | mg/kg | 0.001 | MCERTS | - | - | - | - | < 0.0010 |
| Hexachlorobutadiene | mg/kg | 0.001 | MCERTS | - | - | - | - | < 0.0010 |
| 1,2,3-Trichlorobenzene | mg/kg | 0.001 | ISO 17025 | - | - | - | - | < 0.0010 |

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**Analytical Report Number: 21-64761**
**Project / Site name: Brockhampton West, Havant**
**Your Order No: DS59329**

| Lab Sample Number | | | | 1815230 | 1815231 | 1815232 | 1815233 | 1815234 |
|---|---|---|---|---|---|---|---|---|
| Sample Reference | | | | RO105 | RO105 | RO105 | RO105 | RO105 |
| Sample Number | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Depth (m) | | | | 0.00-0.15 | 0.20-0.40 | 2.00-3.00 | 5.00-6.00 | 6.00-7.00 |
| Date Sampled | | | | 10/03/2021 | 10/03/2021 | 10/03/2021 | 10/03/2021 | 10/03/2021 |
| Time Taken | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| **Analytical Parameter (Soil Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | | | | | |
| **SVOCs** | | | | | | | | |
| Aniline | mg/kg | 0.1 | NONE | - | - | - | - | < 0.1 |
| Phenol | mg/kg | 0.2 | ISO 17025 | - | - | - | - | < 0.2 |
| 2-Chlorophenol | mg/kg | 0.1 | MCERTS | - | - | - | - | < 0.1 |
| Bis(2-chloroethyl)ether | mg/kg | 0.2 | MCERTS | - | - | - | - | < 0.2 |
| 1,3-Dichlorobenzene | mg/kg | 0.2 | MCERTS | - | - | - | - | < 0.2 |
| 1,2-Dichlorobenzene | mg/kg | 0.1 | MCERTS | - | - | - | - | < 0.1 |
| 1,4-Dichlorobenzene | mg/kg | 0.2 | MCERTS | - | - | - | - | < 0.2 |
| Bis(2-chloroisopropyl)ether | mg/kg | 0.1 | MCERTS | - | - | - | - | < 0.1 |
| 2-Methylphenol | mg/kg | 0.3 | MCERTS | - | - | - | - | < 0.3 |
| Hexachloroethane | mg/kg | 0.05 | MCERTS | - | - | - | - | < 0.05 |
| Nitrobenzene | mg/kg | 0.3 | MCERTS | - | - | - | - | < 0.3 |
| 4-Methylphenol | mg/kg | 0.2 | NONE | - | - | - | - | < 0.2 |
| Isophorone | mg/kg | 0.2 | MCERTS | - | - | - | - | < 0.2 |
| 2-Nitrophenol | mg/kg | 0.3 | MCERTS | - | - | - | - | < 0.3 |
| 2,4-Dimethylphenol | mg/kg | 0.3 | MCERTS | - | - | - | - | < 0.3 |
| Bis(2-chloroethoxy)methane | mg/kg | 0.3 | MCERTS | - | - | - | - | < 0.3 |
| 1,2,4-Trichlorobenzene | mg/kg | 0.3 | MCERTS | - | - | - | - | < 0.3 |
| Naphthalene | mg/kg | 0.05 | MCERTS | - | - | - | - | 0.85 |
| 2,4-Dichlorophenol | mg/kg | 0.3 | MCERTS | - | - | - | - | < 0.3 |
| 4-Chloroaniline | mg/kg | 0.1 | NONE | - | - | - | - | < 0.1 |
| Hexachlorobutadiene | mg/kg | 0.1 | MCERTS | - | - | - | - | < 0.1 |
| 4-Chloro-3-methylphenol | mg/kg | 0.1 | NONE | - | - | - | - | < 0.1 |
| 2,4,6-Trichlorophenol | mg/kg | 0.1 | MCERTS | - | - | - | - | < 0.1 |
| 2,4,5-Trichlorophenol | mg/kg | 0.2 | MCERTS | - | - | - | - | < 0.2 |
| 2-Methylnaphthalene | mg/kg | 0.1 | NONE | - | - | - | - | 1.7 |
| 2-Chloronaphthalene | mg/kg | 0.1 | MCERTS | - | - | - | - | < 0.1 |
| Dimethylphthalate | mg/kg | 0.1 | MCERTS | - | - | - | - | < 0.1 |
| 2,6-Dinitrotoluene | mg/kg | 0.1 | MCERTS | - | - | - | - | < 0.1 |
| Acenaphthylene | mg/kg | 0.05 | MCERTS | - | - | - | - | 0.41 |
| Acenaphthene | mg/kg | 0.05 | MCERTS | - | - | - | - | 8.4 |
| 2,4-Dinitrotoluene | mg/kg | 0.2 | MCERTS | - | - | - | - | < 0.2 |
| Dibenzofuran | mg/kg | 0.2 | MCERTS | - | - | - | - | 3.5 |
| 4-Chlorophenyl phenyl ether | mg/kg | 0.3 | ISO 17025 | - | - | - | - | < 0.3 |
| Diethyl phthalate | mg/kg | 0.2 | MCERTS | - | - | - | - | < 0.2 |
| 4-Nitroaniline | mg/kg | 0.2 | MCERTS | - | - | - | - | < 0.2 |
| Fluorene | mg/kg | 0.05 | MCERTS | - | - | - | - | 9.1 |
| Azobenzene | mg/kg | 0.3 | MCERTS | - | - | - | - | < 0.3 |
| Bromophenyl phenyl ether | mg/kg | 0.2 | MCERTS | - | - | - | - | < 0.2 |
| Hexachlorobenzene | mg/kg | 0.3 | MCERTS | - | - | - | - | < 0.3 |
| Phenanthrene | mg/kg | 0.05 | MCERTS | - | - | - | - | 46 |
| Anthracene | mg/kg | 0.05 | MCERTS | - | - | - | - | 8.5 |
| Carbazole | mg/kg | 0.3 | MCERTS | - | - | - | - | 1.9 |
| Dibutyl phthalate | mg/kg | 0.2 | MCERTS | - | - | - | - | < 0.2 |
| Anthraquinone | mg/kg | 0.3 | MCERTS | - | - | - | - | < 0.3 |
| Fluoranthene | mg/kg | 0.05 | MCERTS | - | - | - | - | 40 |
| Pyrene | mg/kg | 0.05 | MCERTS | - | - | - | - | 28 |
| Butyl benzyl phthalate | mg/kg | 0.3 | ISO 17025 | - | - | - | - | < 0.3 |
| Benzo(a)anthracene | mg/kg | 0.05 | MCERTS | - | - | - | - | 17 |
| Chrysene | mg/kg | 0.05 | MCERTS | - | - | - | - | 14 |
| Benzo(b)fluoranthene | mg/kg | 0.05 | MCERTS | - | - | - | - | 16 |
| Benzo(k)fluoranthene | mg/kg | 0.05 | MCERTS | - | - | - | - | 4.8 |
| Benzo(a)pyrene | mg/kg | 0.05 | MCERTS | - | - | - | - | 11 |

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**Analytical Report Number: 21-64761**
**Project / Site name: Brockhampton West, Havant**
**Your Order No: DS59329**

| Lab Sample Number | | | | 1815230 | 1815231 | 1815232 | 1815233 | 1815234 |
|---|---|---|---|---|---|---|---|---|
| Sample Reference | | | | RO105 | RO105 | RO105 | RO105 | RO105 |
| Sample Number | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Depth (m) | | | | 0.00-0.15 | 0.20-0.40 | 2.00-3.00 | 5.00-6.00 | 6.00-7.00 |
| Date Sampled | | | | 10/03/2021 | 10/03/2021 | 10/03/2021 | 10/03/2021 | 10/03/2021 |
| Time Taken | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| **Analytical Parameter (Soil Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | | | | | |
| Indeno(1,2,3-cd)pyrene | mg/kg | 0.05 | MCERTS | - | - | - | - | 5.0 |
| Dibenz(a,h)anthracene | mg/kg | 0.05 | MCERTS | - | - | - | - | 1.8 |
| Benzo(ghi)perylene | mg/kg | 0.05 | MCERTS | - | - | - | - | 5.8 |

U/S = Unsuitable Sample  I/S = Insufficient Sample

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**Analytical Report Number: 21-64761**
**Project / Site name: Brockhampton West, Havant**
**Your Order No: DS59329**

| Lab Sample Number | | | | 1815235 | 1815236 | 1815237 | 1815238 | 1815239 |
|---|---|---|---|---|---|---|---|---|
| Sample Reference | | | | RO105 | RO104 | RO104 | RO104 | RO104 |
| Sample Number | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Depth (m) | | | | 11.00-12.00 | 0.10-0.40 | 0.40-0.70 | 3.00-4.00 | 5.00-6.00 |
| Date Sampled | | | | 10/03/2021 | 10/03/2021 | 10/03/2021 | 10/03/2021 | 10/03/2021 |
| Time Taken | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| **Analytical Parameter (Soil Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | | | | | |
| Stone Content | % | 0.1 | NONE | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Moisture Content | % | 0.01 | NONE | 14 | 14 | 18 | 32 | 46 |
| Total mass of sample received | kg | 0.001 | NONE | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| Asbestos in Soil | Type | N/A | ISO 17025 | - | Not-detected | - | - | Not-detected |

**General Inorganics**

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| pH - Automated | pH Units | N/A | MCERTS | 8.6 | 8.0 | - | 8.2 | 8.0 |
| Total Sulphate as SO4 | % | 0.005 | MCERTS | 0.042 | - | - | 0.162 | - |
| Water Soluble Sulphate as SO4 16hr extraction (2:1) | mg/kg | 2.5 | MCERTS | 130 | 34 | - | 930 | 5500 |
| Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent) | g/l | 0.00125 | MCERTS | 0.066 | 0.017 | - | 0.47 | 2.8 |
| Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent) | mg/l | 1.25 | MCERTS | 66.1 | 16.9 | - | 466 | 2770 |
| Total Sulphur | % | 0.005 | MCERTS | 0.023 | - | - | 0.084 | - |
| Organic Matter | % | 0.1 | MCERTS | - | 2.4 | 0.8 | - | - |

**Phenols by GC-MS**

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Phenol | mg/kg | 0.2 | NONE | - | - | - | - | < 0.2 |
| 2,4,5-Trichlorophenol | mg/kg | 0.2 | NONE | - | - | - | - | < 0.2 |
| 2,4,6-Trichlorophenol | mg/kg | 0.1 | NONE | - | - | - | - | < 0.1 |
| 2,4-Dichlorophenol | mg/kg | 0.3 | NONE | - | - | - | - | < 0.3 |
| 2,4-Dimethylphenol | mg/kg | 0.3 | NONE | - | - | - | - | < 0.3 |
| 2-Chlorophenol | mg/kg | 0.1 | NONE | - | - | - | - | < 0.1 |
| 2-Methylphenol | mg/kg | 0.3 | MCERTS | - | - | - | - | < 0.3 |
| 2-Nitrophenol | mg/kg | 0.3 | NONE | - | - | - | - | < 0.3 |
| 4-Chloro-3-methylphenol | mg/kg | 0.1 | ISO 17025 | - | - | - | - | < 0.1 |
| 4-Methylphenol | mg/kg | 0.2 | NONE | - | - | - | - | < 0.2 |

**Total Phenols**

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Total Phenols (GC-MS) | mg/kg | 1 | NONE | - | - | - | - | < 1.0 |

**Speciated PAHs**

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Naphthalene | mg/kg | 0.05 | MCERTS | < 0.05 | < 0.05 | - | - | - |
| Acenaphthylene | mg/kg | 0.05 | MCERTS | < 0.05 | < 0.05 | - | - | - |
| Acenaphthene | mg/kg | 0.05 | MCERTS | < 0.05 | < 0.05 | - | - | - |
| Fluorene | mg/kg | 0.05 | MCERTS | < 0.05 | < 0.05 | - | - | - |
| Phenanthrene | mg/kg | 0.05 | MCERTS | < 0.05 | 0.26 | - | - | - |
| Anthracene | mg/kg | 0.05 | MCERTS | < 0.05 | < 0.05 | - | - | - |
| Fluoranthene | mg/kg | 0.05 | MCERTS | < 0.05 | 0.41 | - | - | - |
| Pyrene | mg/kg | 0.05 | MCERTS | < 0.05 | 0.40 | - | - | - |
| Benzo(a)anthracene | mg/kg | 0.05 | MCERTS | < 0.05 | 0.30 | - | - | - |
| Chrysene | mg/kg | 0.05 | MCERTS | < 0.05 | 0.23 | - | - | - |
| Benzo(b)fluoranthene | mg/kg | 0.05 | MCERTS | < 0.05 | 0.33 | - | - | - |
| Benzo(k)fluoranthene | mg/kg | 0.05 | MCERTS | < 0.05 | 0.20 | - | - | - |
| Benzo(a)pyrene | mg/kg | 0.05 | MCERTS | < 0.05 | 0.36 | - | - | - |
| Indeno(1,2,3-cd)pyrene | mg/kg | 0.05 | MCERTS | < 0.05 | < 0.05 | - | - | - |
| Dibenz(a,h)anthracene | mg/kg | 0.05 | MCERTS | < 0.05 | < 0.05 | - | - | - |
| Benzo(ghi)perylene | mg/kg | 0.05 | MCERTS | < 0.05 | < 0.05 | - | - | - |

**Total PAH**

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Speciated Total EPA-16 PAHs | mg/kg | 0.8 | MCERTS | < 0.80 | 2.49 | - | - | - |

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**Analytical Report Number: 21-64761**
**Project / Site name: Brockhampton West, Havant**
**Your Order No: DS59329**

| Lab Sample Number | | | | 1815235 | 1815236 | 1815237 | 1815238 | 1815239 |
|---|---|---|---|---|---|---|---|---|
| Sample Reference | | | | RO105 | RO104 | RO104 | RO104 | RO104 |
| Sample Number | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Depth (m) | | | | 11.00-12.00 | 0.10-0.40 | 0.40-0.70 | 3.00-4.00 | 5.00-6.00 |
| Date Sampled | | | | 10/03/2021 | 10/03/2021 | 10/03/2021 | 10/03/2021 | 10/03/2021 |
| Time Taken | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| **Analytical Parameter (Soil Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | | | | | |
| **Heavy Metals / Metalloids** | | | | | | | | |
| Arsenic (aqua regia extractable) | mg/kg | 1 | MCERTS | 4.2 | 9.9 | - | - | 14 |
| Cadmium (aqua regia extractable) | mg/kg | 0.2 | MCERTS | 0.3 | 0.4 | - | - | 2.6 |
| Chromium (hexavalent) | mg/kg | 1.2 | MCERTS | < 1.2 | < 1.2 | - | - | < 1.2 |
| Chromium (III) | mg/kg | 1 | NONE | - | - | - | - | 55 |
| Chromium (aqua regia extractable) | mg/kg | 1 | MCERTS | 9.9 | 22 | - | - | 55 |
| Copper (aqua regia extractable) | mg/kg | 1 | MCERTS | 15 | 26 | - | - | 310 |
| Lead (aqua regia extractable) | mg/kg | 1 | MCERTS | 6.6 | 68 | - | - | 200 |
| Mercury (aqua regia extractable) | mg/kg | 0.3 | MCERTS | < 0.3 | < 0.3 | - | - | < 0.3 |
| Nickel (aqua regia extractable) | mg/kg | 1 | MCERTS | 15 | 13 | - | - | 240 |
| Zinc (aqua regia extractable) | mg/kg | 1 | MCERTS | 37 | 89 | - | - | 580 |
| **Monoaromatics & Oxygenates** | | | | | | | | |
| Benzene | mg/kg | 0.001 | MCERTS | - | < 0.001 | - | - | < 0.001 |
| Toluene | mg/kg | 0.001 | MCERTS | - | < 0.001 | - | - | < 0.001 |
| Ethylbenzene | mg/kg | 0.001 | MCERTS | - | < 0.001 | - | - | < 0.001 |
| p & m-xylene | mg/kg | 0.001 | MCERTS | - | < 0.001 | - | - | < 0.001 |
| o-xylene | mg/kg | 0.001 | MCERTS | - | < 0.001 | - | - | < 0.001 |
| MTBE (Methyl Tertiary Butyl Ether) | mg/kg | 0.001 | MCERTS | - | < 0.001 | - | - | < 0.001 |
| **Petroleum Hydrocarbons** | | | | | | | | |
| TPH C10 - C40 | mg/kg | 10 | MCERTS | 77 | - | - | - | - |
| TPH-CWG - Aliphatic >EC5 - EC6 | mg/kg | 0.001 | MCERTS | - | < 0.001 | - | - | < 0.001 |
| TPH-CWG - Aliphatic >EC6 - EC8 | mg/kg | 0.001 | MCERTS | - | < 0.001 | - | - | < 0.001 |
| TPH-CWG - Aliphatic >EC8 - EC10 | mg/kg | 0.001 | MCERTS | - | < 0.001 | - | - | < 0.001 |
| TPH-CWG - Aliphatic >EC10 - EC12 | mg/kg | 1 | MCERTS | - | < 1.0 | - | - | < 1.0 |
| TPH-CWG - Aliphatic >EC12 - EC16 | mg/kg | 2 | MCERTS | - | 6.0 | - | - | 36 |
| TPH-CWG - Aliphatic >EC16 - EC21 | mg/kg | 8 | MCERTS | - | 12 | - | - | 94 |
| TPH-CWG - Aliphatic >EC21 - EC35 | mg/kg | 8 | MCERTS | - | 29 | - | - | 510 |
| TPH-CWG - Aliphatic >EC35 - EC40 | mg/kg | 10 | NONE | - | < 10 | - | - | 100 |
| TPH-CWG - Aliphatic (EC5 - EC35) | mg/kg | 10 | MCERTS | - | 47 | - | - | 640 |
| TPH-CWG - Aromatic >EC5 - EC7 | mg/kg | 0.001 | MCERTS | - | < 0.001 | - | - | < 0.001 |
| TPH-CWG - Aromatic >EC7 - EC8 | mg/kg | 0.001 | MCERTS | - | < 0.001 | - | - | < 0.001 |
| TPH-CWG - Aromatic >EC8 - EC10 | mg/kg | 0.001 | MCERTS | - | < 0.001 | - | - | < 0.001 |
| TPH-CWG - Aromatic >EC10 - EC12 | mg/kg | 1 | MCERTS | - | < 1.0 | - | - | < 1.0 |
| TPH-CWG - Aromatic >EC12 - EC16 | mg/kg | 2 | MCERTS | - | 25 | - | - | 55 |
| TPH-CWG - Aromatic >EC16 - EC21 | mg/kg | 10 | MCERTS | - | 18 | - | - | 110 |
| TPH-CWG - Aromatic >EC21 - EC35 | mg/kg | 10 | MCERTS | - | 37 | - | - | 340 |
| TPH-CWG - Aromatic >EC35 - EC40 | mg/kg | 10 | NONE | - | < 10 | - | - | 56 |
| TPH-CWG - Aromatic (EC5 - EC35) | mg/kg | 10 | MCERTS | - | 79 | - | - | 500 |
| TPH (C35 - C40) | mg/kg | 10 | MCERTS | - | < 10 | - | - | 160 |

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**Analytical Report Number: 21-64761**
**Project / Site name: Brockhampton West, Havant**
**Your Order No: DS59329**

| Lab Sample Number | | | | 1815235 | 1815236 | 1815237 | 1815238 | 1815239 |
|---|---|---|---|---|---|---|---|---|
| Sample Reference | | | | RO105 | RO104 | RO104 | RO104 | RO104 |
| Sample Number | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Depth (m) | | | | 11.00-12.00 | 0.10-0.40 | 0.40-0.70 | 3.00-4.00 | 5.00-6.00 |
| Date Sampled | | | | 10/03/2021 | 10/03/2021 | 10/03/2021 | 10/03/2021 | 10/03/2021 |
| Time Taken | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| **Analytical Parameter (Soil Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | | | | | |
| **VOCs** | | | | | | | | |
| Chloromethane | mg/kg | 0.001 | ISO 17025 | - | - | - | - | < 0.0010 |
| Chloroethane | mg/kg | 0.001 | NONE | - | - | - | - | < 0.0010 |
| Bromomethane | mg/kg | 0.001 | ISO 17025 | - | - | - | - | < 0.0010 |
| Vinyl Chloride | mg/kg | 0.001 | NONE | - | - | - | - | < 0.0010 |
| Trichlorofluoromethane | mg/kg | 0.001 | NONE | - | - | - | - | < 0.0010 |
| 1,1-Dichloroethene | mg/kg | 0.001 | NONE | - | - | - | - | < 0.0010 |
| 1,1,2-Trichloro 1,2,2-Trifluoroethane | mg/kg | 0.001 | ISO 17025 | - | - | - | - | < 0.0010 |
| Cis-1,2-dichloroethene | mg/kg | 0.001 | MCERTS | - | - | - | - | < 0.0010 |
| MTBE (Methyl Tertiary Butyl Ether) | mg/kg | 0.001 | MCERTS | - | - | - | - | < 0.0010 |
| 1,1-Dichloroethane | mg/kg | 0.001 | MCERTS | - | - | - | - | < 0.0010 |
| 2,2-Dichloropropane | mg/kg | 0.001 | MCERTS | - | - | - | - | < 0.0010 |
| Trichloromethane | mg/kg | 0.001 | MCERTS | - | - | - | - | < 0.0010 |
| 1,1,1-Trichloroethane | mg/kg | 0.001 | MCERTS | - | - | - | - | < 0.0010 |
| 1,2-Dichloroethane | mg/kg | 0.001 | MCERTS | - | - | - | - | < 0.0010 |
| 1,1-Dichloropropene | mg/kg | 0.001 | MCERTS | - | - | - | - | < 0.0010 |
| Trans-1,2-dichloroethene | mg/kg | 0.001 | NONE | - | - | - | - | < 0.0010 |
| Benzene | mg/kg | 0.001 | MCERTS | - | - | - | - | < 0.0010 |
| Tetrachloromethane | mg/kg | 0.001 | MCERTS | - | - | - | - | < 0.0010 |
| 1,2-Dichloropropane | mg/kg | 0.001 | MCERTS | - | - | - | - | < 0.0010 |
| Trichloroethene | mg/kg | 0.001 | MCERTS | - | - | - | - | < 0.0010 |
| Dibromomethane | mg/kg | 0.001 | MCERTS | - | - | - | - | < 0.0010 |
| Bromodichloromethane | mg/kg | 0.001 | MCERTS | - | - | - | - | < 0.0010 |
| Cis-1,3-dichloropropene | mg/kg | 0.001 | ISO 17025 | - | - | - | - | < 0.0010 |
| Trans-1,3-dichloropropene | mg/kg | 0.001 | ISO 17025 | - | - | - | - | < 0.0010 |
| Toluene | mg/kg | 0.001 | MCERTS | - | - | - | - | < 0.0010 |
| 1,1,2-Trichloroethane | mg/kg | 0.001 | MCERTS | - | - | - | - | < 0.0010 |
| 1,3-Dichloropropane | mg/kg | 0.001 | ISO 17025 | - | - | - | - | < 0.0010 |
| Dibromochloromethane | mg/kg | 0.001 | ISO 17025 | - | - | - | - | < 0.0010 |
| Tetrachloroethene | mg/kg | 0.001 | NONE | - | - | - | - | < 0.0010 |
| 1,2-Dibromoethane | mg/kg | 0.001 | ISO 17025 | - | - | - | - | < 0.0010 |
| Chlorobenzene | mg/kg | 0.001 | MCERTS | - | - | - | - | < 0.0010 |
| 1,1,1,2-Tetrachloroethane | mg/kg | 0.001 | MCERTS | - | - | - | - | < 0.0010 |
| Ethylbenzene | mg/kg | 0.001 | MCERTS | - | - | - | - | < 0.0010 |
| p & m-Xylene | mg/kg | 0.001 | MCERTS | - | - | - | - | < 0.0010 |
| Styrene | mg/kg | 0.001 | MCERTS | - | - | - | - | < 0.0010 |
| Tribromomethane | mg/kg | 0.001 | NONE | - | - | - | - | < 0.0010 |
| o-Xylene | mg/kg | 0.001 | MCERTS | - | - | - | - | < 0.0010 |
| 1,1,2,2-Tetrachloroethane | mg/kg | 0.001 | MCERTS | - | - | - | - | < 0.0010 |
| Isopropylbenzene | mg/kg | 0.001 | MCERTS | - | - | - | - | < 0.0010 |
| Bromobenzene | mg/kg | 0.001 | MCERTS | - | - | - | - | < 0.0010 |
| n-Propylbenzene | mg/kg | 0.001 | ISO 17025 | - | - | - | - | < 0.0010 |
| 2-Chlorotoluene | mg/kg | 0.001 | MCERTS | - | - | - | - | < 0.0010 |
| 4-Chlorotoluene | mg/kg | 0.001 | MCERTS | - | - | - | - | < 0.0010 |
| 1,3,5-Trimethylbenzene | mg/kg | 0.001 | ISO 17025 | - | - | - | - | < 0.0010 |
| tert-Butylbenzene | mg/kg | 0.001 | MCERTS | - | - | - | - | < 0.0010 |
| 1,2,4-Trimethylbenzene | mg/kg | 0.001 | ISO 17025 | - | - | - | - | < 0.0010 |
| sec-Butylbenzene | mg/kg | 0.001 | MCERTS | - | - | - | - | < 0.0010 |
| 1,3-Dichlorobenzene | mg/kg | 0.001 | ISO 17025 | - | - | - | - | < 0.0010 |
| p-Isopropyltoluene | mg/kg | 0.001 | ISO 17025 | - | - | - | - | < 0.0010 |
| 1,2-Dichlorobenzene | mg/kg | 0.001 | MCERTS | - | - | - | - | < 0.0010 |
| 1,4-Dichlorobenzene | mg/kg | 0.001 | MCERTS | - | - | - | - | < 0.0010 |
| Butylbenzene | mg/kg | 0.001 | MCERTS | - | - | - | - | < 0.0010 |

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**Analytical Report Number: 21-64761**
**Project / Site name: Brockhampton West, Havant**
**Your Order No: DS59329**

| Lab Sample Number | | | | 1815235 | 1815236 | 1815237 | 1815238 | 1815239 |
|---|---|---|---|---|---|---|---|---|
| Sample Reference | | | | RO105 | RO104 | RO104 | RO104 | RO104 |
| Sample Number | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Depth (m) | | | | 11.00-12.00 | 0.10-0.40 | 0.40-0.70 | 3.00-4.00 | 5.00-6.00 |
| Date Sampled | | | | 10/03/2021 | 10/03/2021 | 10/03/2021 | 10/03/2021 | 10/03/2021 |
| Time Taken | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| **Analytical Parameter (Soil Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | | | | | |
| 1,2-Dibromo-3-chloropropane | mg/kg | 0.001 | ISO 17025 | - | - | - | - | < 0.0010 |
| 1,2,4-Trichlorobenzene | mg/kg | 0.001 | MCERTS | - | - | - | - | < 0.0010 |
| Hexachlorobutadiene | mg/kg | 0.001 | MCERTS | - | - | - | - | < 0.0010 |
| 1,2,3-Trichlorobenzene | mg/kg | 0.001 | ISO 17025 | - | - | - | - | < 0.0010 |

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**Analytical Report Number: 21-64761**
**Project / Site name: Brockhampton West, Havant**
**Your Order No: DS59329**

| Lab Sample Number | | | | 1815235 | 1815236 | 1815237 | 1815238 | 1815239 |
|---|---|---|---|---|---|---|---|---|
| Sample Reference | | | | RO105 | RO104 | RO104 | RO104 | RO104 |
| Sample Number | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Depth (m) | | | | 11.00-12.00 | 0.10-0.40 | 0.40-0.70 | 3.00-4.00 | 5.00-6.00 |
| Date Sampled | | | | 10/03/2021 | 10/03/2021 | 10/03/2021 | 10/03/2021 | 10/03/2021 |
| Time Taken | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| **Analytical Parameter (Soil Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | | | | | |
| **SVOCs** | | | | | | | | |
| Aniline | mg/kg | 0.1 | NONE | - | - | - | - | < 0.1 |
| Phenol | mg/kg | 0.2 | ISO 17025 | - | - | - | - | < 0.2 |
| 2-Chlorophenol | mg/kg | 0.1 | MCERTS | - | - | - | - | < 0.1 |
| Bis(2-chloroethyl)ether | mg/kg | 0.2 | MCERTS | - | - | - | - | < 0.2 |
| 1,3-Dichlorobenzene | mg/kg | 0.2 | MCERTS | - | - | - | - | < 0.2 |
| 1,2-Dichlorobenzene | mg/kg | 0.1 | MCERTS | - | - | - | - | < 0.1 |
| 1,4-Dichlorobenzene | mg/kg | 0.2 | MCERTS | - | - | - | - | < 0.2 |
| Bis(2-chloroisopropyl)ether | mg/kg | 0.1 | MCERTS | - | - | - | - | < 0.1 |
| 2-Methylphenol | mg/kg | 0.3 | MCERTS | - | - | - | - | < 0.3 |
| Hexachloroethane | mg/kg | 0.05 | MCERTS | - | - | - | - | < 0.05 |
| Nitrobenzene | mg/kg | 0.3 | MCERTS | - | - | - | - | < 0.3 |
| 4-Methylphenol | mg/kg | 0.2 | NONE | - | - | - | - | < 0.2 |
| Isophorone | mg/kg | 0.2 | MCERTS | - | - | - | - | < 0.2 |
| 2-Nitrophenol | mg/kg | 0.3 | MCERTS | - | - | - | - | < 0.3 |
| 2,4-Dimethylphenol | mg/kg | 0.3 | MCERTS | - | - | - | - | < 0.3 |
| Bis(2-chloroethoxy)methane | mg/kg | 0.3 | MCERTS | - | - | - | - | < 0.3 |
| 1,2,4-Trichlorobenzene | mg/kg | 0.3 | MCERTS | - | - | - | - | < 0.3 |
| Naphthalene | mg/kg | 0.05 | MCERTS | - | - | - | - | < 0.05 |
| 2,4-Dichlorophenol | mg/kg | 0.3 | MCERTS | - | - | - | - | < 0.3 |
| 4-Chloroaniline | mg/kg | 0.1 | NONE | - | - | - | - | < 0.1 |
| Hexachlorobutadiene | mg/kg | 0.1 | MCERTS | - | - | - | - | < 0.1 |
| 4-Chloro-3-methylphenol | mg/kg | 0.1 | NONE | - | - | - | - | < 0.1 |
| 2,4,6-Trichlorophenol | mg/kg | 0.1 | MCERTS | - | - | - | - | < 0.1 |
| 2,4,5-Trichlorophenol | mg/kg | 0.2 | MCERTS | - | - | - | - | < 0.2 |
| 2-Methylnaphthalene | mg/kg | 0.1 | NONE | - | - | - | - | < 0.1 |
| 2-Chloronaphthalene | mg/kg | 0.1 | MCERTS | - | - | - | - | < 0.1 |
| Dimethylphthalate | mg/kg | 0.1 | MCERTS | - | - | - | - | < 0.1 |
| 2,6-Dinitrotoluene | mg/kg | 0.1 | MCERTS | - | - | - | - | < 0.1 |
| Acenaphthylene | mg/kg | 0.05 | MCERTS | - | - | - | - | < 0.05 |
| Acenaphthene | mg/kg | 0.05 | MCERTS | - | - | - | - | < 0.05 |
| 2,4-Dinitrotoluene | mg/kg | 0.2 | MCERTS | - | - | - | - | < 0.2 |
| Dibenzofuran | mg/kg | 0.2 | MCERTS | - | - | - | - | < 0.2 |
| 4-Chlorophenyl phenyl ether | mg/kg | 0.3 | ISO 17025 | - | - | - | - | < 0.3 |
| Diethyl phthalate | mg/kg | 0.2 | MCERTS | - | - | - | - | < 0.2 |
| 4-Nitroaniline | mg/kg | 0.2 | MCERTS | - | - | - | - | < 0.2 |
| Fluorene | mg/kg | 0.05 | MCERTS | - | - | - | - | < 0.05 |
| Azobenzene | mg/kg | 0.3 | MCERTS | - | - | - | - | < 0.3 |
| Bromophenyl phenyl ether | mg/kg | 0.2 | MCERTS | - | - | - | - | < 0.2 |
| Hexachlorobenzene | mg/kg | 0.3 | MCERTS | - | - | - | - | < 0.3 |
| Phenanthrene | mg/kg | 0.05 | MCERTS | - | - | - | - | 0.88 |
| Anthracene | mg/kg | 0.05 | MCERTS | - | - | - | - | < 0.05 |
| Carbazole | mg/kg | 0.3 | MCERTS | - | - | - | - | < 0.3 |
| Dibutyl phthalate | mg/kg | 0.2 | MCERTS | - | - | - | - | < 0.2 |
| Anthraquinone | mg/kg | 0.3 | MCERTS | - | - | - | - | < 0.3 |
| Fluoranthene | mg/kg | 0.05 | MCERTS | - | - | - | - | 1.1 |
| Pyrene | mg/kg | 0.05 | MCERTS | - | - | - | - | 0.91 |
| Butyl benzyl phthalate | mg/kg | 0.3 | ISO 17025 | - | - | - | - | < 0.3 |
| Benzo(a)anthracene | mg/kg | 0.05 | MCERTS | - | - | - | - | < 0.05 |
| Chrysene | mg/kg | 0.05 | MCERTS | - | - | - | - | < 0.05 |
| Benzo(b)fluoranthene | mg/kg | 0.05 | MCERTS | - | - | - | - | 0.52 |
| Benzo(k)fluoranthene | mg/kg | 0.05 | MCERTS | - | - | - | - | 0.34 |
| Benzo(a)pyrene | mg/kg | 0.05 | MCERTS | - | - | - | - | 0.48 |

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**Analytical Report Number: 21-64761**
**Project / Site name: Brockhampton West, Havant**
**Your Order No: DS59329**

| Lab Sample Number | | | | 1815235 | 1815236 | 1815237 | 1815238 | 1815239 |
|---|---|---|---|---|---|---|---|---|
| Sample Reference | | | | RO105 | RO104 | RO104 | RO104 | RO104 |
| Sample Number | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Depth (m) | | | | 11.00-12.00 | 0.10-0.40 | 0.40-0.70 | 3.00-4.00 | 5.00-6.00 |
| Date Sampled | | | | 10/03/2021 | 10/03/2021 | 10/03/2021 | 10/03/2021 | 10/03/2021 |
| Time Taken | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| **Analytical Parameter (Soil Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | | | | | |
| Indeno(1,2,3-cd)pyrene | mg/kg | 0.05 | MCERTS | - | - | - | - | < 0.05 |
| Dibenz(a,h)anthracene | mg/kg | 0.05 | MCERTS | - | - | - | - | < 0.05 |
| Benzo(ghi)perylene | mg/kg | 0.05 | MCERTS | - | - | - | - | < 0.05 |

U/S = Unsuitable Sample  I/S = Insufficient Sample

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**Analytical Report Number: 21-64761**
**Project / Site name: Brockhampton West, Havant**
**Your Order No: DS59329**

| Lab Sample Number | | | | 1815240 | 1815241 | 1815242 | 1815243 | 1815244 |
|---|---|---|---|---|---|---|---|---|
| Sample Reference | | | | RO104 | RO106 | RO106 | RO106 | RO106 |
| Sample Number | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Depth (m) | | | | 10.00-10.50 | 0.00-0.20 | 0.50-0.90 | 2.00-3.00 | 11.00-11.50 |
| Date Sampled | | | | 10/03/2021 | 10/03/2021 | 10/03/2021 | 10/03/2021 | 10/03/2021 |
| Time Taken | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| **Analytical Parameter (Soil Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | | | | | |
| Stone Content | % | 0.1 | NONE | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Moisture Content | % | 0.01 | NONE | 7.7 | 6.6 | 6.3 | 36 | 53 |
| Total mass of sample received | kg | 0.001 | NONE | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| Asbestos in Soil | Type | N/A | ISO 17025 | - | - | Not-detected | Not-detected | - |
| **General Inorganics** | | | | | | | | |
| pH - Automated | pH Units | N/A | MCERTS | 9.1 | - | 8.7 | 8.1 | - |
| Total Sulphate as SO4 | % | 0.005 | MCERTS | 0.019 | - | - | - | - |
| Water Soluble Sulphate as SO4 16hr extraction (2:1) | mg/kg | 2.5 | MCERTS | 84 | - | 23 | 720 | - |
| Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent) | g/l | 0.00125 | MCERTS | 0.042 | - | 0.012 | 0.36 | - |
| Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent) | mg/l | 1.25 | MCERTS | 42.0 | - | 11.6 | 362 | - |
| Total Sulphur | % | 0.005 | MCERTS | 0.010 | - | - | - | - |
| Organic Matter | % | 0.1 | MCERTS | - | 3.2 | 0.6 | - | - |
| **Phenols by GC-MS** | | | | | | | | |
| Phenol | mg/kg | 0.2 | NONE | - | - | - | < 0.2 | < 0.2 |
| 2,4,5-Trichlorophenol | mg/kg | 0.2 | NONE | - | - | - | < 0.2 | < 0.2 |
| 2,4,6-Trichlorophenol | mg/kg | 0.1 | NONE | - | - | - | < 0.1 | < 0.1 |
| 2,4-Dichlorophenol | mg/kg | 0.3 | NONE | - | - | - | < 0.3 | < 0.3 |
| 2,4-Dimethylphenol | mg/kg | 0.3 | NONE | - | - | - | < 0.3 | < 0.3 |
| 2-Chlorophenol | mg/kg | 0.1 | NONE | - | - | - | < 0.1 | < 0.1 |
| 2-Methylphenol | mg/kg | 0.3 | MCERTS | - | - | - | < 0.3 | < 0.3 |
| 2-Nitrophenol | mg/kg | 0.3 | NONE | - | - | - | < 0.3 | < 0.3 |
| 4-Chloro-3-methylphenol | mg/kg | 0.1 | ISO 17025 | - | - | - | < 0.1 | < 0.1 |
| 4-Methylphenol | mg/kg | 0.2 | NONE | - | - | - | < 0.2 | < 0.2 |
| **Total Phenols** | | | | | | | | |
| Total Phenols (GC-MS) | mg/kg | 1 | NONE | - | - | - | < 1.0 | < 1.0 |
| **Speciated PAHs** | | | | | | | | |
| Naphthalene | mg/kg | 0.05 | MCERTS | - | - | < 0.05 | 0.89 | - |
| Acenaphthylene | mg/kg | 0.05 | MCERTS | - | - | < 0.05 | < 0.05 | - |
| Acenaphthene | mg/kg | 0.05 | MCERTS | - | - | < 0.05 | 0.99 | - |
| Fluorene | mg/kg | 0.05 | MCERTS | - | - | < 0.05 | 0.88 | - |
| Phenanthrene | mg/kg | 0.05 | MCERTS | - | - | < 0.05 | 3.4 | - |
| Anthracene | mg/kg | 0.05 | MCERTS | - | - | < 0.05 | 0.46 | - |
| Fluoranthene | mg/kg | 0.05 | MCERTS | - | - | < 0.05 | 3.3 | - |
| Pyrene | mg/kg | 0.05 | MCERTS | - | - | < 0.05 | 2.6 | - |
| Benzo(a)anthracene | mg/kg | 0.05 | MCERTS | - | - | < 0.05 | 1.5 | - |
| Chrysene | mg/kg | 0.05 | MCERTS | - | - | < 0.05 | 0.96 | - |
| Benzo(b)fluoranthene | mg/kg | 0.05 | MCERTS | - | - | < 0.05 | 1.1 | - |
| Benzo(k)fluoranthene | mg/kg | 0.05 | MCERTS | - | - | < 0.05 | 0.58 | - |
| Benzo(a)pyrene | mg/kg | 0.05 | MCERTS | - | - | < 0.05 | 0.88 | - |
| Indeno(1,2,3-cd)pyrene | mg/kg | 0.05 | MCERTS | - | - | < 0.05 | < 0.05 | - |
| Dibenz(a,h)anthracene | mg/kg | 0.05 | MCERTS | - | - | < 0.05 | < 0.05 | - |
| Benzo(ghi)perylene | mg/kg | 0.05 | MCERTS | - | - | < 0.05 | < 0.05 | - |
| **Total PAH** | | | | | | | | |
| Speciated Total EPA-16 PAHs | mg/kg | 0.8 | MCERTS | - | - | < 0.80 | 17.5 | - |

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**Analytical Report Number: 21-64761**
**Project / Site name: Brockhampton West, Havant**
**Your Order No: DS59329**

| Lab Sample Number | | | | 1815240 | 1815241 | 1815242 | 1815243 | 1815244 |
|---|---|---|---|---|---|---|---|---|
| Sample Reference | | | | RO104 | RO106 | RO106 | RO106 | RO106 |
| Sample Number | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Depth (m) | | | | 10.00-10.50 | 0.00-0.20 | 0.50-0.90 | 2.00-3.00 | 11.00-11.50 |
| Date Sampled | | | | 10/03/2021 | 10/03/2021 | 10/03/2021 | 10/03/2021 | 10/03/2021 |
| Time Taken | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| **Analytical Parameter (Soil Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | | | | | |
| **Heavy Metals / Metalloids** | | | | | | | | |
| Arsenic (aqua regia extractable) | mg/kg | 1 | MCERTS | - | - | 3.8 | 15 | - |
| Cadmium (aqua regia extractable) | mg/kg | 0.2 | MCERTS | - | - | < 0.2 | 11 | - |
| Chromium (hexavalent) | mg/kg | 1.2 | MCERTS | - | - | < 1.2 | < 1.2 | - |
| Chromium (III) | mg/kg | 1 | NONE | - | - | - | - | - |
| Chromium (aqua regia extractable) | mg/kg | 1 | MCERTS | - | - | 9.1 | 48 | - |
| Copper (aqua regia extractable) | mg/kg | 1 | MCERTS | - | - | 13 | 440 | - |
| Lead (aqua regia extractable) | mg/kg | 1 | MCERTS | - | - | 7.4 | 800 | - |
| Mercury (aqua regia extractable) | mg/kg | 0.3 | MCERTS | - | - | < 0.3 | < 0.3 | - |
| Nickel (aqua regia extractable) | mg/kg | 1 | MCERTS | - | - | 4.5 | 50 | - |
| Zinc (aqua regia extractable) | mg/kg | 1 | MCERTS | - | - | 20 | 1500 | - |
| **Monoaromatics & Oxygenates** | | | | | | | | |
| Benzene | mg/kg | 0.001 | MCERTS | - | - | < 0.001 | < 0.001 | < 0.001 |
| Toluene | mg/kg | 0.001 | MCERTS | - | - | < 0.001 | < 0.001 | < 0.001 |
| Ethylbenzene | mg/kg | 0.001 | MCERTS | - | - | < 0.001 | < 0.001 | 0.068 |
| p & m-xylene | mg/kg | 0.001 | MCERTS | - | - | < 0.001 | < 0.001 | 0.085 |
| o-xylene | mg/kg | 0.001 | MCERTS | - | - | < 0.001 | < 0.001 | 0.026 |
| MTBE (Methyl Tertiary Butyl Ether) | mg/kg | 0.001 | MCERTS | - | - | < 0.001 | < 0.001 | < 0.001 |
| **Petroleum Hydrocarbons** | | | | | | | | |
| TPH C10 - C40 | mg/kg | 10 | MCERTS | - | - | - | - | - |
| TPH-CWG - Aliphatic >EC5 - EC6 | mg/kg | 0.001 | MCERTS | - | - | < 0.001 | < 0.001 | < 0.001 |
| TPH-CWG - Aliphatic >EC6 - EC8 | mg/kg | 0.001 | MCERTS | - | - | < 0.001 | < 0.001 | < 0.001 |
| TPH-CWG - Aliphatic >EC8 - EC10 | mg/kg | 0.001 | MCERTS | - | - | < 0.001 | < 0.001 | < 0.001 |
| TPH-CWG - Aliphatic >EC10 - EC12 | mg/kg | 1 | MCERTS | - | - | < 1.0 | < 1.0 | < 1.0 |
| TPH-CWG - Aliphatic >EC12 - EC16 | mg/kg | 2 | MCERTS | - | - | < 2.0 | 12 | 30 |
| TPH-CWG - Aliphatic >EC16 - EC21 | mg/kg | 8 | MCERTS | - | - | < 8.0 | 32 | 280 |
| TPH-CWG - Aliphatic >EC21 - EC35 | mg/kg | 8 | MCERTS | - | - | < 8.0 | 140 | 990 |
| TPH-CWG - Aliphatic >EC35 - EC40 | mg/kg | 10 | NONE | - | - | < 10 | 50 | 310 |
| TPH-CWG - Aliphatic (EC5 - EC35) | mg/kg | 10 | MCERTS | - | - | < 10 | 180 | 1300 |
| TPH-CWG - Aromatic >EC5 - EC7 | mg/kg | 0.001 | MCERTS | - | - | < 0.001 | < 0.001 | < 0.001 |
| TPH-CWG - Aromatic >EC7 - EC8 | mg/kg | 0.001 | MCERTS | - | - | < 0.001 | < 0.001 | < 0.001 |
| TPH-CWG - Aromatic >EC8 - EC10 | mg/kg | 0.001 | MCERTS | - | - | < 0.001 | < 0.001 | 0.35 |
| TPH-CWG - Aromatic >EC10 - EC12 | mg/kg | 1 | MCERTS | - | - | < 1.0 | 11 | 26 |
| TPH-CWG - Aromatic >EC12 - EC16 | mg/kg | 2 | MCERTS | - | - | < 2.0 | 26 | 66 |
| TPH-CWG - Aromatic >EC16 - EC21 | mg/kg | 10 | MCERTS | - | - | < 10 | 34 | 340 |
| TPH-CWG - Aromatic >EC21 - EC35 | mg/kg | 10 | MCERTS | - | - | < 10 | 80 | 670 |
| TPH-CWG - Aromatic >EC35 - EC40 | mg/kg | 10 | NONE | - | - | < 10 | 29 | 200 |
| TPH-CWG - Aromatic (EC5 - EC35) | mg/kg | 10 | MCERTS | - | - | < 10 | 150 | 1100 |
| TPH (C35 - C40) | mg/kg | 10 | MCERTS | - | - | < 10 | < 10 | < 10 |

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**Analytical Report Number: 21-64761**
**Project / Site name: Brockhampton West, Havant**
**Your Order No: DS59329**

| Lab Sample Number | | | | 1815240 | 1815241 | 1815242 | 1815243 | 1815244 |
|---|---|---|---|---|---|---|---|---|
| Sample Reference | | | | RO104 | RO106 | RO106 | RO106 | RO106 |
| Sample Number | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Depth (m) | | | | 10.00-10.50 | 0.00-0.20 | 0.50-0.90 | 2.00-3.00 | 11.00-11.50 |
| Date Sampled | | | | 10/03/2021 | 10/03/2021 | 10/03/2021 | 10/03/2021 | 10/03/2021 |
| Time Taken | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| **Analytical Parameter (Soil Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | | | | | |
| **VOCs** | | | | | | | | |
| Chloromethane | mg/kg | 0.001 | ISO 17025 | - | - | - | - | < 0.0010 |
| Chloroethane | mg/kg | 0.001 | NONE | - | - | - | - | < 0.0010 |
| Bromomethane | mg/kg | 0.001 | ISO 17025 | - | - | - | - | < 0.0010 |
| Vinyl Chloride | mg/kg | 0.001 | NONE | - | - | - | - | < 0.0010 |
| Trichlorofluoromethane | mg/kg | 0.001 | NONE | - | - | - | - | < 0.0010 |
| 1,1-Dichloroethene | mg/kg | 0.001 | NONE | - | - | - | - | < 0.0010 |
| 1,1,2-Trichloro 1,2,2-Trifluoroethane | mg/kg | 0.001 | ISO 17025 | - | - | - | - | < 0.0010 |
| Cis-1,2-dichloroethene | mg/kg | 0.001 | MCERTS | - | - | - | - | < 0.0010 |
| MTBE (Methyl Tertiary Butyl Ether) | mg/kg | 0.001 | MCERTS | - | - | - | - | < 0.0010 |
| 1,1-Dichloroethane | mg/kg | 0.001 | MCERTS | - | - | - | - | < 0.0010 |
| 2,2-Dichloropropane | mg/kg | 0.001 | MCERTS | - | - | - | - | < 0.0010 |
| Trichloromethane | mg/kg | 0.001 | MCERTS | - | - | - | - | < 0.0010 |
| 1,1,1-Trichloroethane | mg/kg | 0.001 | MCERTS | - | - | - | - | 2.5 |
| 1,2-Dichloroethane | mg/kg | 0.001 | MCERTS | - | - | - | - | < 0.0010 |
| 1,1-Dichloropropene | mg/kg | 0.001 | MCERTS | - | - | - | - | < 0.0010 |
| Trans-1,2-dichloroethene | mg/kg | 0.001 | NONE | - | - | - | - | < 0.0010 |
| Benzene | mg/kg | 0.001 | MCERTS | - | - | - | - | < 0.0010 |
| Tetrachloromethane | mg/kg | 0.001 | MCERTS | - | - | - | - | < 0.0010 |
| 1,2-Dichloropropane | mg/kg | 0.001 | MCERTS | - | - | - | - | < 0.0010 |
| Trichloroethene | mg/kg | 0.001 | MCERTS | - | - | - | - | < 0.0010 |
| Dibromomethane | mg/kg | 0.001 | MCERTS | - | - | - | - | 1.3 |
| Bromodichloromethane | mg/kg | 0.001 | MCERTS | - | - | - | - | < 0.0010 |
| Cis-1,3-dichloropropene | mg/kg | 0.001 | ISO 17025 | - | - | - | - | < 0.0010 |
| Trans-1,3-dichloropropene | mg/kg | 0.001 | ISO 17025 | - | - | - | - | < 0.0010 |
| Toluene | mg/kg | 0.001 | MCERTS | - | - | - | - | < 0.0010 |
| 1,1,2-Trichloroethane | mg/kg | 0.001 | MCERTS | - | - | - | - | < 0.0010 |
| 1,3-Dichloropropane | mg/kg | 0.001 | ISO 17025 | - | - | - | - | < 0.0010 |
| Dibromochloromethane | mg/kg | 0.001 | ISO 17025 | - | - | - | - | < 0.0010 |
| Tetrachloroethene | mg/kg | 0.001 | NONE | - | - | - | - | 0.021 |
| 1,2-Dibromoethane | mg/kg | 0.001 | ISO 17025 | - | - | - | - | < 0.0010 |
| Chlorobenzene | mg/kg | 0.001 | MCERTS | - | - | - | - | < 0.0010 |
| 1,1,1,2-Tetrachloroethane | mg/kg | 0.001 | MCERTS | - | - | - | - | < 0.0010 |
| Ethylbenzene | mg/kg | 0.001 | MCERTS | - | - | - | - | 0.068 |
| p & m-Xylene | mg/kg | 0.001 | MCERTS | - | - | - | - | 0.085 |
| Styrene | mg/kg | 0.001 | MCERTS | - | - | - | - | < 0.0010 |
| Tribromomethane | mg/kg | 0.001 | NONE | - | - | - | - | < 0.0010 |
| o-Xylene | mg/kg | 0.001 | MCERTS | - | - | - | - | 0.026 |
| 1,1,2,2-Tetrachloroethane | mg/kg | 0.001 | MCERTS | - | - | - | - | < 0.0010 |
| Isopropylbenzene | mg/kg | 0.001 | MCERTS | - | - | - | - | < 0.0010 |
| Bromobenzene | mg/kg | 0.001 | MCERTS | - | - | - | - | < 0.0010 |
| n-Propylbenzene | mg/kg | 0.001 | ISO 17025 | - | - | - | - | 0.012 |
| 2-Chlorotoluene | mg/kg | 0.001 | MCERTS | - | - | - | - | < 0.0010 |
| 4-Chlorotoluene | mg/kg | 0.001 | MCERTS | - | - | - | - | < 0.0010 |
| 1,3,5-Trimethylbenzene | mg/kg | 0.001 | ISO 17025 | - | - | - | - | 0.034 |
| tert-Butylbenzene | mg/kg | 0.001 | MCERTS | - | - | - | - | < 0.0010 |
| 1,2,4-Trimethylbenzene | mg/kg | 0.001 | ISO 17025 | - | - | - | - | 0.12 |
| sec-Butylbenzene | mg/kg | 0.001 | MCERTS | - | - | - | - | < 0.0010 |
| 1,3-Dichlorobenzene | mg/kg | 0.001 | ISO 17025 | - | - | - | - | < 0.0010 |
| p-Isopropyltoluene | mg/kg | 0.001 | ISO 17025 | - | - | - | - | 0.029 |
| 1,2-Dichlorobenzene | mg/kg | 0.001 | MCERTS | - | - | - | - | < 0.0010 |
| 1,4-Dichlorobenzene | mg/kg | 0.001 | MCERTS | - | - | - | - | < 0.0010 |
| Butylbenzene | mg/kg | 0.001 | MCERTS | - | - | - | - | < 0.0010 |

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**Analytical Report Number: 21-64761**
**Project / Site name: Brockhampton West, Havant**
**Your Order No: DS59329**

| Lab Sample Number | | | | 1815240 | 1815241 | 1815242 | 1815243 | 1815244 |
|---|---|---|---|---|---|---|---|---|
| Sample Reference | | | | RO104 | RO106 | RO106 | RO106 | RO106 |
| Sample Number | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Depth (m) | | | | 10.00-10.50 | 0.00-0.20 | 0.50-0.90 | 2.00-3.00 | 11.00-11.50 |
| Date Sampled | | | | 10/03/2021 | 10/03/2021 | 10/03/2021 | 10/03/2021 | 10/03/2021 |
| Time Taken | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| **Analytical Parameter (Soil Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | | | | | |
| 1,2-Dibromo-3-chloropropane | mg/kg | 0.001 | ISO 17025 | - | - | - | - | < 0.0010 |
| 1,2,4-Trichlorobenzene | mg/kg | 0.001 | MCERTS | - | - | - | - | < 0.0010 |
| Hexachlorobutadiene | mg/kg | 0.001 | MCERTS | - | - | - | - | < 0.0010 |
| 1,2,3-Trichlorobenzene | mg/kg | 0.001 | ISO 17025 | - | - | - | - | < 0.0010 |

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**Analytical Report Number: 21-64761**
**Project / Site name: Brockhampton West, Havant**
**Your Order No: DS59329**

| Lab Sample Number | | | | 1815240 | 1815241 | 1815242 | 1815243 | 1815244 |
|---|---|---|---|---|---|---|---|---|
| Sample Reference | | | | RO104 | RO106 | RO106 | RO106 | RO106 |
| Sample Number | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Depth (m) | | | | 10.00-10.50 | 0.00-0.20 | 0.50-0.90 | 2.00-3.00 | 11.00-11.50 |
| Date Sampled | | | | 10/03/2021 | 10/03/2021 | 10/03/2021 | 10/03/2021 | 10/03/2021 |
| Time Taken | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| **Analytical Parameter (Soil Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | | | | | |
| **SVOCs** | | | | | | | | |
| Aniline | mg/kg | 0.1 | NONE | - | - | - | - | < 0.1 |
| Phenol | mg/kg | 0.2 | ISO 17025 | - | - | - | - | < 0.2 |
| 2-Chlorophenol | mg/kg | 0.1 | MCERTS | - | - | - | - | < 0.1 |
| Bis(2-chloroethyl)ether | mg/kg | 0.2 | MCERTS | - | - | - | - | < 0.2 |
| 1,3-Dichlorobenzene | mg/kg | 0.2 | MCERTS | - | - | - | - | < 0.2 |
| 1,2-Dichlorobenzene | mg/kg | 0.1 | MCERTS | - | - | - | - | < 0.1 |
| 1,4-Dichlorobenzene | mg/kg | 0.2 | MCERTS | - | - | - | - | < 0.2 |
| Bis(2-chloroisopropyl)ether | mg/kg | 0.1 | MCERTS | - | - | - | - | < 0.1 |
| 2-Methylphenol | mg/kg | 0.3 | MCERTS | - | - | - | - | < 0.3 |
| Hexachloroethane | mg/kg | 0.05 | MCERTS | - | - | - | - | < 0.05 |
| Nitrobenzene | mg/kg | 0.3 | MCERTS | - | - | - | - | < 0.3 |
| 4-Methylphenol | mg/kg | 0.2 | NONE | - | - | - | - | < 0.2 |
| Isophorone | mg/kg | 0.2 | MCERTS | - | - | - | - | < 0.2 |
| 2-Nitrophenol | mg/kg | 0.3 | MCERTS | - | - | - | - | < 0.3 |
| 2,4-Dimethylphenol | mg/kg | 0.3 | MCERTS | - | - | - | - | < 0.3 |
| Bis(2-chloroethoxy)methane | mg/kg | 0.3 | MCERTS | - | - | - | - | < 0.3 |
| 1,2,4-Trichlorobenzene | mg/kg | 0.3 | MCERTS | - | - | - | - | < 0.3 |
| Naphthalene | mg/kg | 0.05 | MCERTS | - | - | - | - | 2.1 |
| 2,4-Dichlorophenol | mg/kg | 0.3 | MCERTS | - | - | - | - | < 0.3 |
| 4-Chloroaniline | mg/kg | 0.1 | NONE | - | - | - | - | < 0.1 |
| Hexachlorobutadiene | mg/kg | 0.1 | MCERTS | - | - | - | - | < 0.1 |
| 4-Chloro-3-methylphenol | mg/kg | 0.1 | NONE | - | - | - | - | < 0.1 |
| 2,4,6-Trichlorophenol | mg/kg | 0.1 | MCERTS | - | - | - | - | < 0.1 |
| 2,4,5-Trichlorophenol | mg/kg | 0.2 | MCERTS | - | - | - | - | < 0.2 |
| 2-Methylnaphthalene | mg/kg | 0.1 | NONE | - | - | - | - | 4.9 |
| 2-Chloronaphthalene | mg/kg | 0.1 | MCERTS | - | - | - | - | < 0.1 |
| Dimethylphthalate | mg/kg | 0.1 | MCERTS | - | - | - | - | 3.2 |
| 2,6-Dinitrotoluene | mg/kg | 0.1 | MCERTS | - | - | - | - | < 0.1 |
| Acenaphthylene | mg/kg | 0.05 | MCERTS | - | - | - | - | 0.29 |
| Acenaphthene | mg/kg | 0.05 | MCERTS | - | - | - | - | 10 |
| 2,4-Dinitrotoluene | mg/kg | 0.2 | MCERTS | - | - | - | - | < 0.2 |
| Dibenzofuran | mg/kg | 0.2 | MCERTS | - | - | - | - | 6.8 |
| 4-Chlorophenyl phenyl ether | mg/kg | 0.3 | ISO 17025 | - | - | - | - | < 0.3 |
| Diethyl phthalate | mg/kg | 0.2 | MCERTS | - | - | - | - | 1.9 |
| 4-Nitroaniline | mg/kg | 0.2 | MCERTS | - | - | - | - | < 0.2 |
| Fluorene | mg/kg | 0.05 | MCERTS | - | - | - | - | 11 |
| Azobenzene | mg/kg | 0.3 | MCERTS | - | - | - | - | < 0.3 |
| Bromophenyl phenyl ether | mg/kg | 0.2 | MCERTS | - | - | - | - | < 0.2 |
| Hexachlorobenzene | mg/kg | 0.3 | MCERTS | - | - | - | - | < 0.3 |
| Phenanthrene | mg/kg | 0.05 | MCERTS | - | - | - | - | 42 |
| Anthracene | mg/kg | 0.05 | MCERTS | - | - | - | - | 8.6 |
| Carbazole | mg/kg | 0.3 | MCERTS | - | - | - | - | 2.2 |
| Dibutyl phthalate | mg/kg | 0.2 | MCERTS | - | - | - | - | < 0.2 |
| Anthraquinone | mg/kg | 0.3 | MCERTS | - | - | - | - | < 0.3 |
| Fluoranthene | mg/kg | 0.05 | MCERTS | - | - | - | - | 29 |
| Pyrene | mg/kg | 0.05 | MCERTS | - | - | - | - | 21 |
| Butyl benzyl phthalate | mg/kg | 0.3 | ISO 17025 | - | - | - | - | < 0.3 |
| Benzo(a)anthracene | mg/kg | 0.05 | MCERTS | - | - | - | - | 11 |
| Chrysene | mg/kg | 0.05 | MCERTS | - | - | - | - | 8.0 |
| Benzo(b)fluoranthene | mg/kg | 0.05 | MCERTS | - | - | - | - | 8.6 |
| Benzo(k)fluoranthene | mg/kg | 0.05 | MCERTS | - | - | - | - | 4.8 |
| Benzo(a)pyrene | mg/kg | 0.05 | MCERTS | - | - | - | - | 7.9 |

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**Analytical Report Number: 21-64761**
**Project / Site name: Brockhampton West, Havant**
**Your Order No: DS59329**

| Lab Sample Number | | | | 1815240 | 1815241 | 1815242 | 1815243 | 1815244 |
|---|---|---|---|---|---|---|---|---|
| Sample Reference | | | | RO104 | RO106 | RO106 | RO106 | RO106 |
| Sample Number | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Depth (m) | | | | 10.00-10.50 | 0.00-0.20 | 0.50-0.90 | 2.00-3.00 | 11.00-11.50 |
| Date Sampled | | | | 10/03/2021 | 10/03/2021 | 10/03/2021 | 10/03/2021 | 10/03/2021 |
| Time Taken | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| **Analytical Parameter (Soil Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | | | | | |
| Indeno(1,2,3-cd)pyrene | mg/kg | 0.05 | MCERTS | - | - | - | - | 3.4 |
| Dibenz(a,h)anthracene | mg/kg | 0.05 | MCERTS | - | - | - | - | 1.0 |
| Benzo(ghi)perylene | mg/kg | 0.05 | MCERTS | - | - | - | - | 4.1 |

U/S = Unsuitable Sample  I/S = Insufficient Sample

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**Analytical Report Number: 21-64761**
**Project / Site name: Brockhampton West, Havant**
**Your Order No: DS59329**

| Lab Sample Number | | | | 1815246 | 1815247 |
|---|---|---|---|---|---|
| Sample Reference | | | | RO106 | RO106 |
| Sample Number | | | | None Supplied | None Supplied |
| Depth (m) | | | | 12.50-13.00 | 15.00-15.50 |
| Date Sampled | | | | 10/03/2021 | 10/03/2021 |
| Time Taken | | | | None Supplied | None Supplied |
| **Analytical Parameter (Soil Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | | |
| Stone Content | % | 0.1 | NONE | < 0.1 | < 0.1 |
| Moisture Content | % | 0.01 | NONE | 51 | 33 |
| Total mass of sample received | kg | 0.001 | NONE | 0.70 | 1.2 |
| Asbestos in Soil | Type | N/A | ISO 17025 | - | - |

**General Inorganics**

| | | | | | |
|---|---|---|---|---|---|
| pH - Automated | pH Units | N/A | MCERTS | 7.8 | 7.9 |
| Total Sulphate as SO4 | % | 0.005 | MCERTS | 0.255 | 0.110 |
| Water Soluble Sulphate as SO4 16hr extraction (2:1) | mg/kg | 2.5 | MCERTS | 2700 | 1000 |
| Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent) | g/l | 0.00125 | MCERTS | 1.3 | 0.52 |
| Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent) | mg/l | 1.25 | MCERTS | 1330 | 524 |
| Total Sulphur | % | 0.005 | MCERTS | 0.243 | 0.033 |
| Organic Matter | % | 0.1 | MCERTS | - | - |

**Phenols by GC-MS**

| | | | | | |
|---|---|---|---|---|---|
| Phenol | mg/kg | 0.2 | NONE | - | - |
| 2,4,5-Trichlorophenol | mg/kg | 0.2 | NONE | - | - |
| 2,4,6-Trichlorophenol | mg/kg | 0.1 | NONE | - | - |
| 2,4-Dichlorophenol | mg/kg | 0.3 | NONE | - | - |
| 2,4-Dimethylphenol | mg/kg | 0.3 | NONE | - | - |
| 2-Chlorophenol | mg/kg | 0.1 | NONE | - | - |
| 2-Methylphenol | mg/kg | 0.3 | MCERTS | - | - |
| 2-Nitrophenol | mg/kg | 0.3 | NONE | - | - |
| 4-Chloro-3-methylphenol | mg/kg | 0.1 | ISO 17025 | - | - |
| 4-Methylphenol | mg/kg | 0.2 | NONE | - | - |

**Total Phenols**

| | | | | | |
|---|---|---|---|---|---|
| Total Phenols (GC-MS) | mg/kg | 1 | NONE | - | - |

**Speciated PAHs**

| | | | | | |
|---|---|---|---|---|---|
| Naphthalene | mg/kg | 0.05 | MCERTS | - | - |
| Acenaphthylene | mg/kg | 0.05 | MCERTS | - | - |
| Acenaphthene | mg/kg | 0.05 | MCERTS | - | - |
| Fluorene | mg/kg | 0.05 | MCERTS | - | - |
| Phenanthrene | mg/kg | 0.05 | MCERTS | - | - |
| Anthracene | mg/kg | 0.05 | MCERTS | - | - |
| Fluoranthene | mg/kg | 0.05 | MCERTS | - | - |
| Pyrene | mg/kg | 0.05 | MCERTS | - | - |
| Benzo(a)anthracene | mg/kg | 0.05 | MCERTS | - | - |
| Chrysene | mg/kg | 0.05 | MCERTS | - | - |
| Benzo(b)fluoranthene | mg/kg | 0.05 | MCERTS | - | - |
| Benzo(k)fluoranthene | mg/kg | 0.05 | MCERTS | - | - |
| Benzo(a)pyrene | mg/kg | 0.05 | MCERTS | - | - |
| Indeno(1,2,3-cd)pyrene | mg/kg | 0.05 | MCERTS | - | - |
| Dibenz(a,h)anthracene | mg/kg | 0.05 | MCERTS | - | - |
| Benzo(ghi)perylene | mg/kg | 0.05 | MCERTS | - | - |

**Total PAH**

| | | | | | |
|---|---|---|---|---|---|
| Speciated Total EPA-16 PAHs | mg/kg | 0.8 | MCERTS | - | - |

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**Analytical Report Number: 21-64761**
**Project / Site name: Brockhampton West, Havant**
**Your Order No: DS59329**

| Lab Sample Number | | | | 1815246 | 1815247 |
|---|---|---|---|---|---|
| Sample Reference | | | | RO106 | RO106 |
| Sample Number | | | | None Supplied | None Supplied |
| Depth (m) | | | | 12.50-13.00 | 15.00-15.50 |
| Date Sampled | | | | 10/03/2021 | 10/03/2021 |
| Time Taken | | | | None Supplied | None Supplied |
| **Analytical Parameter (Soil Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | | |
| **Heavy Metals / Metalloids** | | | | | |
| Arsenic (aqua regia extractable) | mg/kg | 1 | MCERTS | - | - |
| Cadmium (aqua regia extractable) | mg/kg | 0.2 | MCERTS | - | - |
| Chromium (hexavalent) | mg/kg | 1.2 | MCERTS | - | - |
| Chromium (III) | mg/kg | 1 | NONE | - | - |
| Chromium (aqua regia extractable) | mg/kg | 1 | MCERTS | - | - |
| Copper (aqua regia extractable) | mg/kg | 1 | MCERTS | - | - |
| Lead (aqua regia extractable) | mg/kg | 1 | MCERTS | - | - |
| Mercury (aqua regia extractable) | mg/kg | 0.3 | MCERTS | - | - |
| Nickel (aqua regia extractable) | mg/kg | 1 | MCERTS | - | - |
| Zinc (aqua regia extractable) | mg/kg | 1 | MCERTS | - | - |
| **Monoaromatics & Oxygenates** | | | | | |
| Benzene | mg/kg | 0.001 | MCERTS | - | - |
| Toluene | mg/kg | 0.001 | MCERTS | - | - |
| Ethylbenzene | mg/kg | 0.001 | MCERTS | - | - |
| p & m-xylene | mg/kg | 0.001 | MCERTS | - | - |
| o-xylene | mg/kg | 0.001 | MCERTS | - | - |
| MTBE (Methyl Tertiary Butyl Ether) | mg/kg | 0.001 | MCERTS | - | - |
| **Petroleum Hydrocarbons** | | | | | |
| TPH C10 - C40 | mg/kg | 10 | MCERTS | - | - |
| TPH-CWG - Aliphatic >EC5 - EC6 | mg/kg | 0.001 | MCERTS | - | - |
| TPH-CWG - Aliphatic >EC6 - EC8 | mg/kg | 0.001 | MCERTS | - | - |
| TPH-CWG - Aliphatic >EC8 - EC10 | mg/kg | 0.001 | MCERTS | - | - |
| TPH-CWG - Aliphatic >EC10 - EC12 | mg/kg | 1 | MCERTS | - | - |
| TPH-CWG - Aliphatic >EC12 - EC16 | mg/kg | 2 | MCERTS | - | - |
| TPH-CWG - Aliphatic >EC16 - EC21 | mg/kg | 8 | MCERTS | - | - |
| TPH-CWG - Aliphatic >EC21 - EC35 | mg/kg | 8 | MCERTS | - | - |
| TPH-CWG - Aliphatic >EC35 - EC40 | mg/kg | 10 | NONE | - | - |
| TPH-CWG - Aliphatic (EC5 - EC35) | mg/kg | 10 | MCERTS | - | - |
| TPH-CWG - Aromatic >EC5 - EC7 | mg/kg | 0.001 | MCERTS | - | - |
| TPH-CWG - Aromatic >EC7 - EC8 | mg/kg | 0.001 | MCERTS | - | - |
| TPH-CWG - Aromatic >EC8 - EC10 | mg/kg | 0.001 | MCERTS | - | - |
| TPH-CWG - Aromatic >EC10 - EC12 | mg/kg | 1 | MCERTS | - | - |
| TPH-CWG - Aromatic >EC12 - EC16 | mg/kg | 2 | MCERTS | - | - |
| TPH-CWG - Aromatic >EC16 - EC21 | mg/kg | 10 | MCERTS | - | - |
| TPH-CWG - Aromatic >EC21 - EC35 | mg/kg | 10 | MCERTS | - | - |
| TPH-CWG - Aromatic >EC35 - EC40 | mg/kg | 10 | NONE | - | - |
| TPH-CWG - Aromatic (EC5 - EC35) | mg/kg | 10 | MCERTS | - | - |
| TPH (C35 - C40) | mg/kg | 10 | MCERTS | - | - |

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**Analytical Report Number: 21-64761**
**Project / Site name: Brockhampton West, Havant**
**Your Order No: DS59329**

| Lab Sample Number | | | | 1815246 | 1815247 |
|---|---|---|---|---|---|
| Sample Reference | | | | RO106 | RO106 |
| Sample Number | | | | None Supplied | None Supplied |
| Depth (m) | | | | 12.50-13.00 | 15.00-15.50 |
| Date Sampled | | | | 10/03/2021 | 10/03/2021 |
| Time Taken | | | | None Supplied | None Supplied |
| **Analytical Parameter (Soil Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | | |
| **VOCs** | | | | | |
| Chloromethane | mg/kg | 0.001 | ISO 17025 | - | - |
| Chloroethane | mg/kg | 0.001 | NONE | - | - |
| Bromomethane | mg/kg | 0.001 | ISO 17025 | - | - |
| Vinyl Chloride | mg/kg | 0.001 | NONE | - | - |
| Trichlorofluoromethane | mg/kg | 0.001 | NONE | - | - |
| 1,1-Dichloroethene | mg/kg | 0.001 | NONE | - | - |
| 1,1,2-Trichloro 1,2,2-Trifluoroethane | mg/kg | 0.001 | ISO 17025 | - | - |
| Cis-1,2-dichloroethene | mg/kg | 0.001 | MCERTS | - | - |
| MTBE (Methyl Tertiary Butyl Ether) | mg/kg | 0.001 | MCERTS | - | - |
| 1,1-Dichloroethane | mg/kg | 0.001 | MCERTS | - | - |
| 2,2-Dichloropropane | mg/kg | 0.001 | MCERTS | - | - |
| Trichloromethane | mg/kg | 0.001 | MCERTS | - | - |
| 1,1,1-Trichloroethane | mg/kg | 0.001 | MCERTS | - | - |
| 1,2-Dichloroethane | mg/kg | 0.001 | MCERTS | - | - |
| 1,1-Dichloropropene | mg/kg | 0.001 | MCERTS | - | - |
| Trans-1,2-dichloroethene | mg/kg | 0.001 | NONE | - | - |
| Benzene | mg/kg | 0.001 | MCERTS | - | - |
| Tetrachloromethane | mg/kg | 0.001 | MCERTS | - | - |
| 1,2-Dichloropropane | mg/kg | 0.001 | MCERTS | - | - |
| Trichloroethene | mg/kg | 0.001 | MCERTS | - | - |
| Dibromomethane | mg/kg | 0.001 | MCERTS | - | - |
| Bromodichloromethane | mg/kg | 0.001 | MCERTS | - | - |
| Cis-1,3-dichloropropene | mg/kg | 0.001 | ISO 17025 | - | - |
| Trans-1,3-dichloropropene | mg/kg | 0.001 | ISO 17025 | - | - |
| Toluene | mg/kg | 0.001 | MCERTS | - | - |
| 1,1,2-Trichloroethane | mg/kg | 0.001 | MCERTS | - | - |
| 1,3-Dichloropropane | mg/kg | 0.001 | ISO 17025 | - | - |
| Dibromochloromethane | mg/kg | 0.001 | ISO 17025 | - | - |
| Tetrachloroethene | mg/kg | 0.001 | NONE | - | - |
| 1,2-Dibromoethane | mg/kg | 0.001 | ISO 17025 | - | - |
| Chlorobenzene | mg/kg | 0.001 | MCERTS | - | - |
| 1,1,1,2-Tetrachloroethane | mg/kg | 0.001 | MCERTS | - | - |
| Ethylbenzene | mg/kg | 0.001 | MCERTS | - | - |
| p & m-Xylene | mg/kg | 0.001 | MCERTS | - | - |
| Styrene | mg/kg | 0.001 | MCERTS | - | - |
| Tribromomethane | mg/kg | 0.001 | NONE | - | - |
| o-Xylene | mg/kg | 0.001 | MCERTS | - | - |
| 1,1,2,2-Tetrachloroethane | mg/kg | 0.001 | MCERTS | - | - |
| Isopropylbenzene | mg/kg | 0.001 | MCERTS | - | - |
| Bromobenzene | mg/kg | 0.001 | MCERTS | - | - |
| n-Propylbenzene | mg/kg | 0.001 | ISO 17025 | - | - |
| 2-Chlorotoluene | mg/kg | 0.001 | MCERTS | - | - |
| 4-Chlorotoluene | mg/kg | 0.001 | MCERTS | - | - |
| 1,3,5-Trimethylbenzene | mg/kg | 0.001 | ISO 17025 | - | - |
| tert-Butylbenzene | mg/kg | 0.001 | MCERTS | - | - |
| 1,2,4-Trimethylbenzene | mg/kg | 0.001 | ISO 17025 | - | - |
| sec-Butylbenzene | mg/kg | 0.001 | MCERTS | - | - |
| 1,3-Dichlorobenzene | mg/kg | 0.001 | ISO 17025 | - | - |
| p-Isopropyltoluene | mg/kg | 0.001 | ISO 17025 | - | - |
| 1,2-Dichlorobenzene | mg/kg | 0.001 | MCERTS | - | - |
| 1,4-Dichlorobenzene | mg/kg | 0.001 | MCERTS | - | - |
| Butylbenzene | mg/kg | 0.001 | MCERTS | - | - |

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**Analytical Report Number: 21-64761**
**Project / Site name: Brockhampton West, Havant**
**Your Order No: DS59329**

| **Lab Sample Number** | | | | 1815246 | 1815247 |
|---|---|---|---|---|---|
| **Sample Reference** | | | | RO106 | RO106 |
| **Sample Number** | | | | None Supplied | None Supplied |
| **Depth (m)** | | | | 12.50-13.00 | 15.00-15.50 |
| **Date Sampled** | | | | 10/03/2021 | 10/03/2021 |
| **Time Taken** | | | | None Supplied | None Supplied |
| **Analytical Parameter (Soil Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | | |
| 1,2-Dibromo-3-chloropropane | mg/kg | 0.001 | ISO 17025 | - | - |
| 1,2,4-Trichlorobenzene | mg/kg | 0.001 | MCERTS | - | - |
| Hexachlorobutadiene | mg/kg | 0.001 | MCERTS | - | - |
| 1,2,3-Trichlorobenzene | mg/kg | 0.001 | ISO 17025 | - | - |

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**Analytical Report Number: 21-64761**
**Project / Site name: Brockhampton West, Havant**
**Your Order No: DS59329**

| Lab Sample Number | | | | 1815246 | 1815247 |
|---|---|---|---|---|---|
| Sample Reference | | | | RO106 | RO106 |
| Sample Number | | | | None Supplied | None Supplied |
| Depth (m) | | | | 12.50-13.00 | 15.00-15.50 |
| Date Sampled | | | | 10/03/2021 | 10/03/2021 |
| Time Taken | | | | None Supplied | None Supplied |
| **Analytical Parameter (Soil Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | | |
| **SVOCs** | | | | | |
| Aniline | mg/kg | 0.1 | NONE | - | - |
| Phenol | mg/kg | 0.2 | ISO 17025 | - | - |
| 2-Chlorophenol | mg/kg | 0.1 | MCERTS | - | - |
| Bis(2-chloroethyl)ether | mg/kg | 0.2 | MCERTS | - | - |
| 1,3-Dichlorobenzene | mg/kg | 0.2 | MCERTS | - | - |
| 1,2-Dichlorobenzene | mg/kg | 0.1 | MCERTS | - | - |
| 1,4-Dichlorobenzene | mg/kg | 0.2 | MCERTS | - | - |
| Bis(2-chloroisopropyl)ether | mg/kg | 0.1 | MCERTS | - | - |
| 2-Methylphenol | mg/kg | 0.3 | MCERTS | - | - |
| Hexachloroethane | mg/kg | 0.05 | MCERTS | - | - |
| Nitrobenzene | mg/kg | 0.3 | MCERTS | - | - |
| 4-Methylphenol | mg/kg | 0.2 | NONE | - | - |
| Isophorone | mg/kg | 0.2 | MCERTS | - | - |
| 2-Nitrophenol | mg/kg | 0.3 | MCERTS | - | - |
| 2,4-Dimethylphenol | mg/kg | 0.3 | MCERTS | - | - |
| Bis(2-chloroethoxy)methane | mg/kg | 0.3 | MCERTS | - | - |
| 1,2,4-Trichlorobenzene | mg/kg | 0.3 | MCERTS | - | - |
| Naphthalene | mg/kg | 0.05 | MCERTS | - | - |
| 2,4-Dichlorophenol | mg/kg | 0.3 | MCERTS | - | - |
| 4-Chloroaniline | mg/kg | 0.1 | NONE | - | - |
| Hexachlorobutadiene | mg/kg | 0.1 | MCERTS | - | - |
| 4-Chloro-3-methylphenol | mg/kg | 0.1 | NONE | - | - |
| 2,4,6-Trichlorophenol | mg/kg | 0.1 | MCERTS | - | - |
| 2,4,5-Trichlorophenol | mg/kg | 0.2 | MCERTS | - | - |
| 2-Methylnaphthalene | mg/kg | 0.1 | NONE | - | - |
| 2-Chloronaphthalene | mg/kg | 0.1 | MCERTS | - | - |
| Dimethylphthalate | mg/kg | 0.1 | MCERTS | - | - |
| 2,6-Dinitrotoluene | mg/kg | 0.1 | MCERTS | - | - |
| Acenaphthylene | mg/kg | 0.05 | MCERTS | - | - |
| Acenaphthene | mg/kg | 0.05 | MCERTS | - | - |
| 2,4-Dinitrotoluene | mg/kg | 0.2 | MCERTS | - | - |
| Dibenzofuran | mg/kg | 0.2 | MCERTS | - | - |
| 4-Chlorophenyl phenyl ether | mg/kg | 0.3 | ISO 17025 | - | - |
| Diethyl phthalate | mg/kg | 0.2 | MCERTS | - | - |
| 4-Nitroaniline | mg/kg | 0.2 | MCERTS | - | - |
| Fluorene | mg/kg | 0.05 | MCERTS | - | - |
| Azobenzene | mg/kg | 0.3 | MCERTS | - | - |
| Bromophenyl phenyl ether | mg/kg | 0.2 | MCERTS | - | - |
| Hexachlorobenzene | mg/kg | 0.3 | MCERTS | - | - |
| Phenanthrene | mg/kg | 0.05 | MCERTS | - | - |
| Anthracene | mg/kg | 0.05 | MCERTS | - | - |
| Carbazole | mg/kg | 0.3 | MCERTS | - | - |
| Dibutyl phthalate | mg/kg | 0.2 | MCERTS | - | - |
| Anthraquinone | mg/kg | 0.3 | MCERTS | - | - |
| Fluoranthene | mg/kg | 0.05 | MCERTS | - | - |
| Pyrene | mg/kg | 0.05 | MCERTS | - | - |
| Butyl benzyl phthalate | mg/kg | 0.3 | ISO 17025 | - | - |
| Benzo(a)anthracene | mg/kg | 0.05 | MCERTS | - | - |
| Chrysene | mg/kg | 0.05 | MCERTS | - | - |
| Benzo(b)fluoranthene | mg/kg | 0.05 | MCERTS | - | - |
| Benzo(k)fluoranthene | mg/kg | 0.05 | MCERTS | - | - |
| Benzo(a)pyrene | mg/kg | 0.05 | MCERTS | - | - |

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**Analytical Report Number: 21-64761**
**Project / Site name: Brockhampton West, Havant**
**Your Order No: DS59329**

| **Lab Sample Number** | | | | 1815246 | 1815247 |
|---|---|---|---|---|---|
| **Sample Reference** | | | | RO106 | RO106 |
| **Sample Number** | | | | None Supplied | None Supplied |
| **Depth (m)** | | | | 12.50-13.00 | 15.00-15.50 |
| **Date Sampled** | | | | 10/03/2021 | 10/03/2021 |
| **Time Taken** | | | | None Supplied | None Supplied |
| **Analytical Parameter (Soil Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | | |
| Indeno(1,2,3-cd)pyrene | mg/kg | 0.05 | MCERTS | - | - |
| Dibenz(a,h)anthracene | mg/kg | 0.05 | MCERTS | - | - |
| Benzo(ghi)perylene | mg/kg | 0.05 | MCERTS | - | - |

U/S = Unsuitable Sample  I/S = Insufficient Sample

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**Analytical Report Number : 21-64761**
**Project / Site name: Brockhampton West, Havant**

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

| Lab Sample Number | Sample Reference | Sample Number | Depth (m) | Sample Description * |
|---|---|---|---|---|
| 1815230 | RO105 | None Supplied | 0.00-0.15 | Brown clay and sand with gravel and vegetation. |
| 1815231 | RO105 | None Supplied | 0.20-0.40 | Brown loam and clay with gravel. |
| 1815232 | RO105 | None Supplied | 2.00-3.00 | Brown loam and clay with gravel and vegetation. |
| 1815233 | RO105 | None Supplied | 5.00-6.00 | Brown loam and clay with gravel and vegetation. |
| 1815234 | RO105 | None Supplied | 6.00-7.00 | Brown loam and clay with gravel and vegetation. |
| 1815235 | RO105 | None Supplied | 11.00-12.00 | Light brown sandy gravel. |
| 1815236 | RO104 | None Supplied | 0.10-0.40 | Brown sandy clay with gravel. |
| 1815237 | RO104 | None Supplied | 0.40-0.70 | Brown sandy clay with gravel. |
| 1815238 | RO104 | None Supplied | 3.00-4.00 | Brown sandy clay with gravel. |
| 1815239 | RO104 | None Supplied | 5.00-6.00 | Brown sandy clay with gravel. |
| 1815240 | RO104 | None Supplied | 10.00-10.50 | Brown sandy clay with gravel. |
| 1815241 | RO106 | None Supplied | 0.00-0.20 | Brown sandy loam with gravel and vegetation. |
| 1815242 | RO106 | None Supplied | 0.50-0.90 | Light brown sand with gravel. |
| 1815243 | RO106 | None Supplied | 2.00-3.00 | Brown clay with gravel. |
| 1815244 | RO106 | None Supplied | 11.00-11.50 | Brown clay with plastic. |
| 1815246 | RO106 | None Supplied | 12.50-13.00 | Brown clay with plastic. |
| 1815247 | RO106 | None Supplied | 15.00-15.50 | Light brown sand. |

**Analytical Report Number : 21-64761**
**Project / Site name: Brockhampton West, Havant**

**Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)**

| Analytical Test Name | Analytical Method Description | Analytical Method Reference | Method number | Wet / Dry Analysis | Accreditation Status |
|---|---|---|---|---|---|
| Metals in soil by ICP-OES | Determination of metals in soil by aqua-regia digestion followed by ICP-OES. | In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil. | L038-PL | D | MCERTS |
| Sulphate, water soluble, in soil (16hr extraction) | Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent). | In house method. | L038-PL | D | MCERTS |
| Phenols, speciated, in soil, by GCMS | Determination of speciated phenols in soil by extraction in dichloromethane and hexane followed by GC-MS. | In-house method based on USEPA 8270 | L064-PL | D | NONE |
| Asbestos identification in soil | Asbestos Identification with the use of polarised light microscopy in conjunction with disperion staining techniques. | In house method based on HSG 248 | A001-PL | D | ISO 17025 |
| Hexavalent chromium in soil (Lower Level) | Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry. | In-house method | L080-PL | W | MCERTS |
| Moisture Content | Moisture content, determined gravimetrically. (30 oC) | In house method. | L019-UK/PL | W | NONE |
| Organic matter (Automated) in soil | Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate. | In house method. | L009-PL | D | MCERTS |
| Speciated EPA-16 PAHs in soil | Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards. | In-house method based on USEPA 8270 | L064-PL | D | MCERTS |
| pH in soil (automated) | Determination of pH in soil by addition of water followed by automated electrometric measurement. | In house method. | L099-PL | D | MCERTS |
| Stones content of soil | Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight. | In-house method based on British Standard Methods and MCERTS requirements. | L019-UK/PL | D | NONE |
| Semi-volatile organic compounds in soil | Determination of semi-volatile organic compounds in soil by extraction in dichloromethane and hexane followed by GC-MS. | In-house method based on USEPA 8270 | L064-PL | D | MCERTS |
| TPH Chromatogram in Soil | TPH Chromatogram in Soil. | In-house method | L064-PL | D | NONE |
| TPH in (Soil) | Determination of TPH bands by HS-GC-MS/GC-FID | In-house method, TPH with carbon banding and silica gel split/cleanup. | L076-PL | D | NONE |
| Cr (III) in soil | In-house method by calculation from total Cr and Cr VI. | In-house method by calculation | L080-PL | W | NONE |
| TPHCWG (Soil) | Determination of hexane extractable hydrocarbons in soil by GC-MS/GC-FID. | In-house method with silica gel split/clean up. | L088/76-PL | W | MCERTS |
| Volatile organic compounds in soil | Determination of volatile organic compounds in soil by headspace GC-MS. | In-house method based on USEPA8260 | L073B-PL | W | MCERTS |
| TPH Banding in Soil by FID | Determination of hexane extractable hydrocarbons in soil by GC-FID. | In-house method, TPH with carbon banding and silica gel split/cleanup. | L076-PL | W | MCERTS |

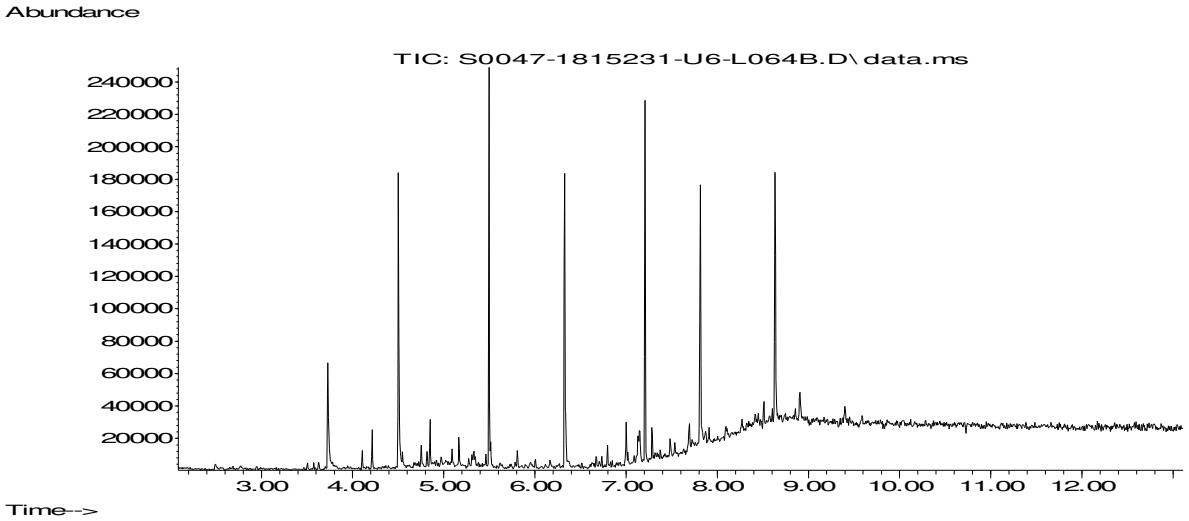
**Analytical Report Number : 21-64761**
**Project / Site name: Brockhampton West, Havant**

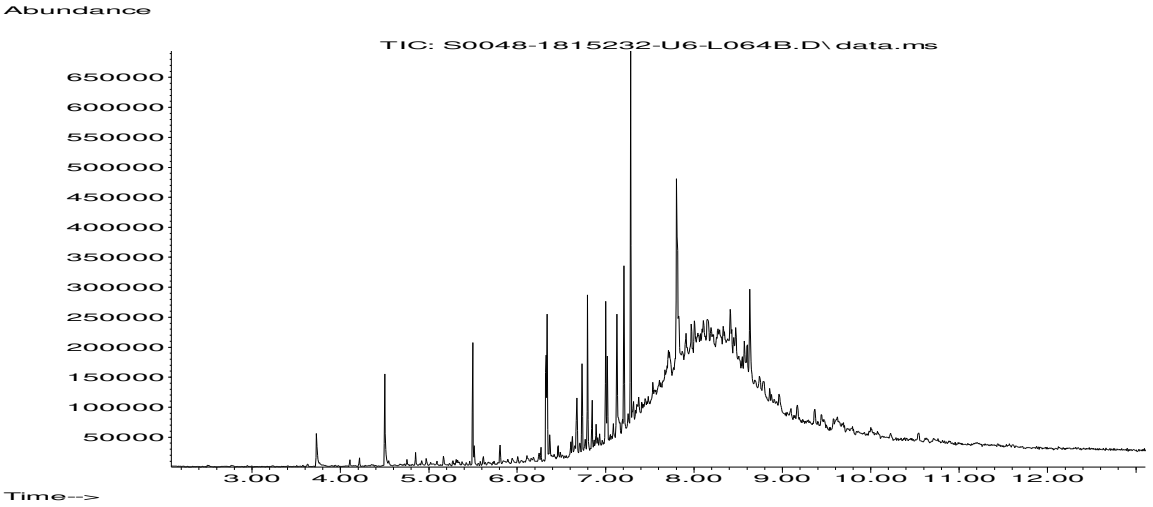
**Water matrix abbreviations: Surface Water (SW)  Potable Water (PW)  Ground Water (GW)**

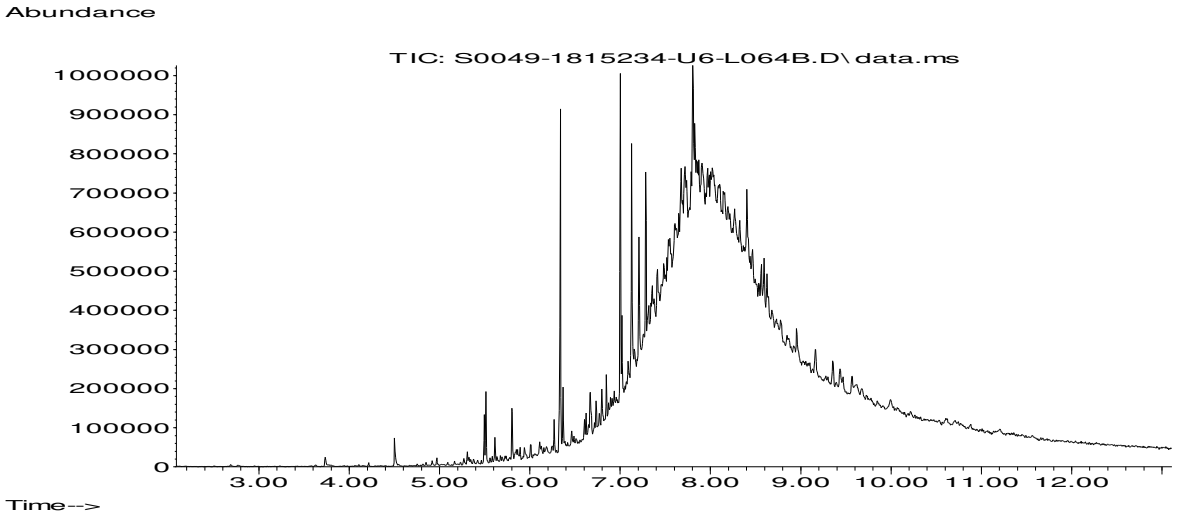
| Analytical Test Name | Analytical Method Description | Analytical Method Reference | Method number | Wet / Dry Analysis | Accreditation Status |
|---|---|---|---|---|---|
| Total Sulphate in soil as % | Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES. | In house method. | L038-PL | D | MCERTS |
| Total Sulphur in soil as % | Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES. | In house method. | L038-PL | D | MCERTS |
| BTEX and MTBE in soil  (Monoaromatics) | Determination of BTEX in soil by headspace GC-MS. | In-house method based on USEPA8260 | L073B-PL | W | MCERTS |
| Sulphate, water soluble, in soil | Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent). | In house method. | L038-PL | D | MCERTS |

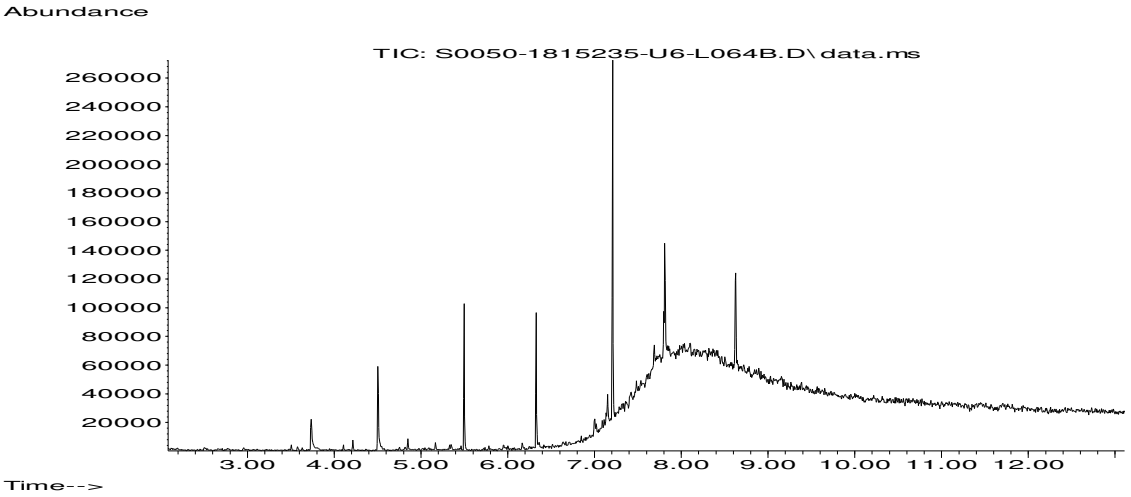
**For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.**
**For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.**
**Soil analytical results are expressed on a dry weight basis.  Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.**

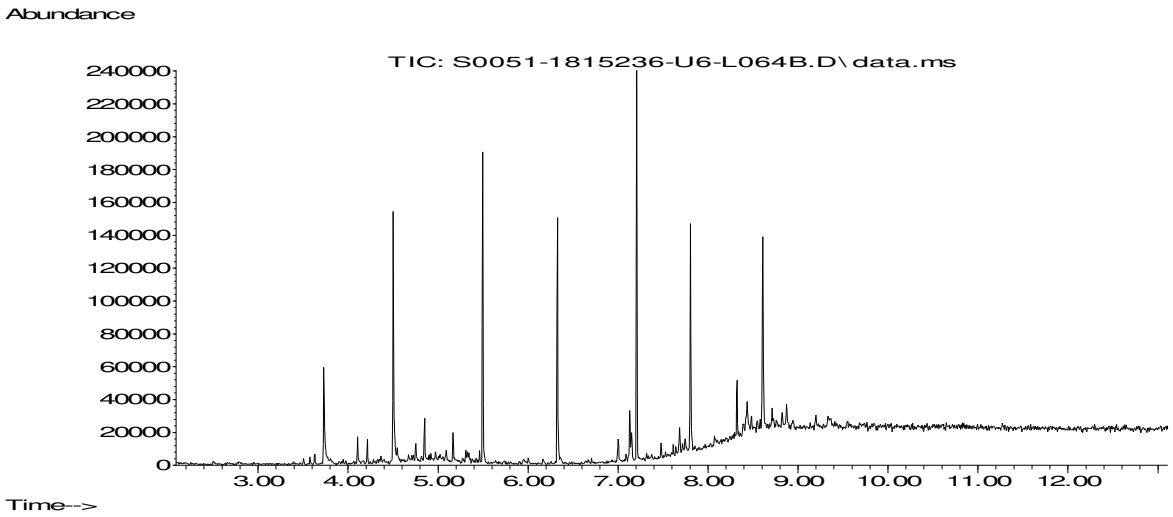
**Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.**

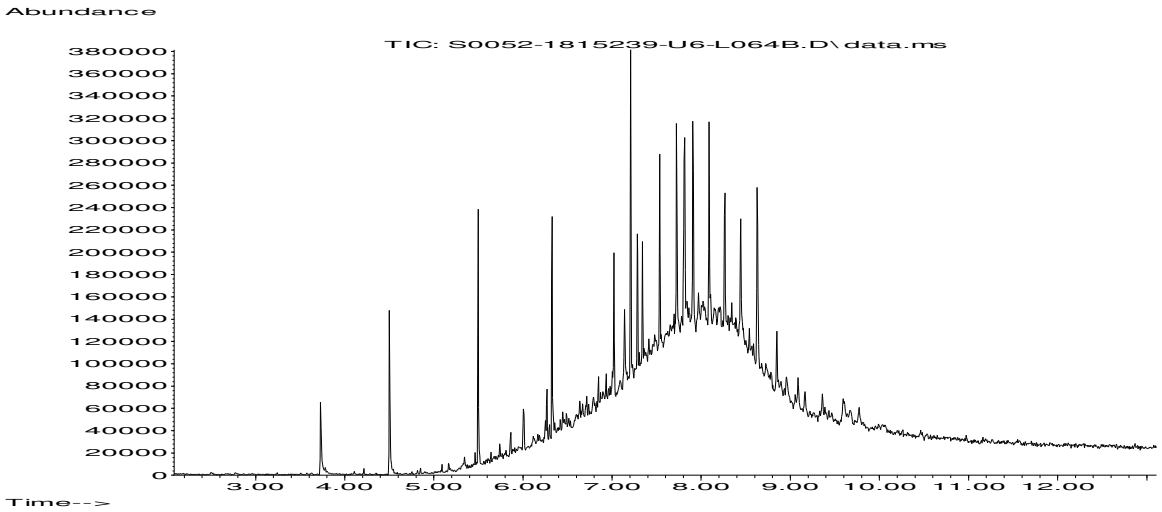

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Time-->

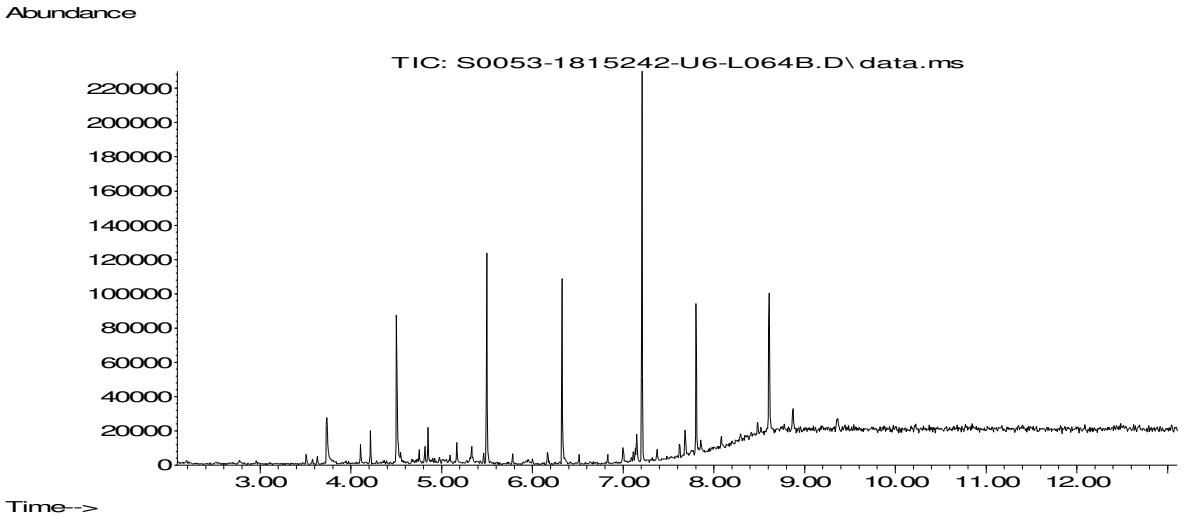

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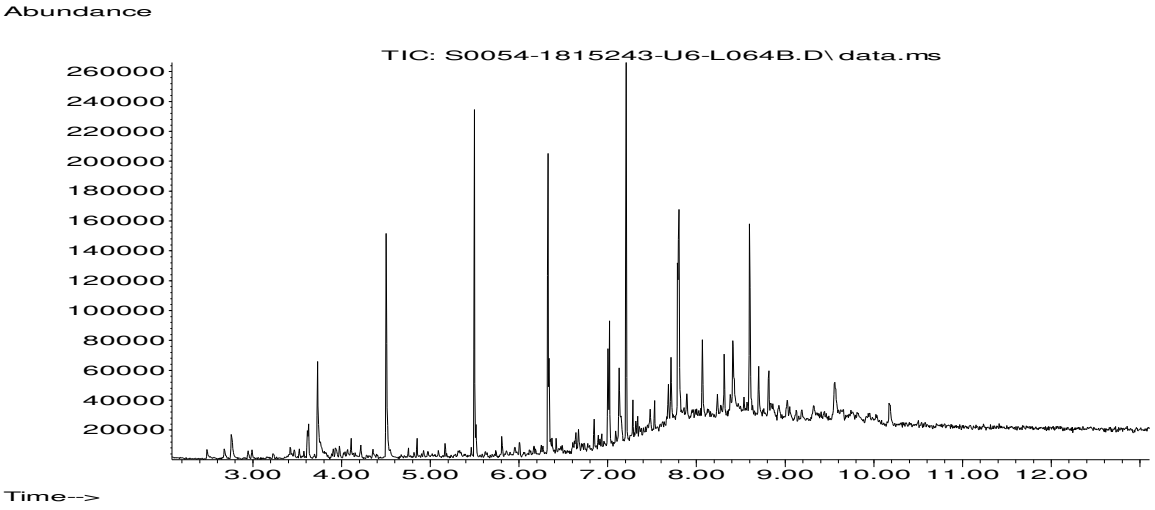

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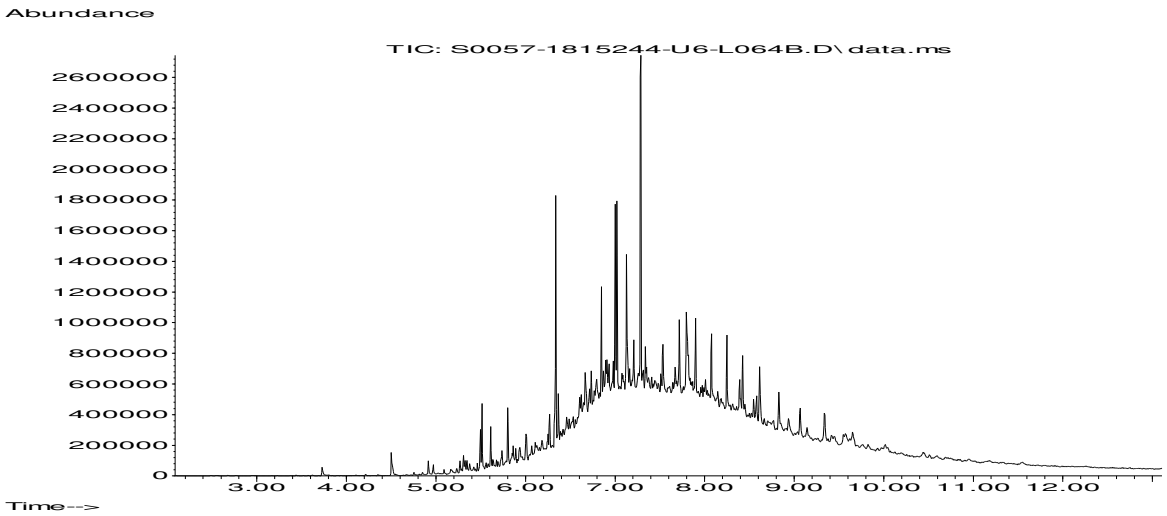

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11.00
12.00
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8.00
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10.00
11.00
12.00
Time-->

# Sample Deviation Report

**Analytical Report Number : 21-64761**
**Project / Site name: Brockhampton West, Havant**

| Sample ID | Other ID | Sample Type | Lab Sample Number | Sample Deviation | Test Name | Test Ref | Test Deviation |
|---|---|---|---|---|---|---|---|
| RO104 | None Supplied | S | 1815236 | c | BTEX and MTBE in soil (Monoaromatics) | L073B-PL | c |
| RO104 | None Supplied | S | 1815236 | c | BTEX and MTBE in soil (Monoaromatics) | L073B-PL | c |
| RO104 | None Supplied | S | 1815236 | c | TPH in (Soil) | L076-PL | c |
| RO104 | None Supplied | S | 1815239 | c | BTEX and MTBE in soil (Monoaromatics) | L073B-PL | c |
| RO104 | None Supplied | S | 1815239 | c | BTEX and MTBE in soil (Monoaromatics) | L073B-PL | c |
| RO104 | None Supplied | S | 1815239 | c | TPH in (Soil) | L076-PL | c |
| RO104 | None Supplied | S | 1815239 | c | Volatile organic compounds in soil | L073B-PL | c |
| RO105 | None Supplied | S | 1815231 | c | BTEX and MTBE in soil (Monoaromatics) | L073B-PL | c |
| RO105 | None Supplied | S | 1815231 | c | BTEX and MTBE in soil (Monoaromatics) | L073B-PL | c |
| RO105 | None Supplied | S | 1815231 | c | TPH in (Soil) | L076-PL | c |
| RO105 | None Supplied | S | 1815232 | c | BTEX and MTBE in soil (Monoaromatics) | L073B-PL | c |
| RO105 | None Supplied | S | 1815232 | c | BTEX and MTBE in soil (Monoaromatics) | L073B-PL | c |
| RO105 | None Supplied | S | 1815232 | c | TPH in (Soil) | L076-PL | c |
| RO105 | None Supplied | S | 1815234 | c | BTEX and MTBE in soil (Monoaromatics) | L073B-PL | c |
| RO105 | None Supplied | S | 1815234 | c | BTEX and MTBE in soil (Monoaromatics) | L073B-PL | c |
| RO105 | None Supplied | S | 1815234 | c | TPH in (Soil) | L076-PL | c |
| RO105 | None Supplied | S | 1815234 | c | Volatile organic compounds in soil | L073B-PL | c |
| RO106 | None Supplied | S | 1815242 | c | BTEX and MTBE in soil (Monoaromatics) | L073B-PL | c |
| RO106 | None Supplied | S | 1815242 | c | BTEX and MTBE in soil (Monoaromatics) | L073B-PL | c |
| RO106 | None Supplied | S | 1815242 | c | TPH in (Soil) | L076-PL | c |
| RO106 | None Supplied | S | 1815243 | c | BTEX and MTBE in soil (Monoaromatics) | L073B-PL | c |
| RO106 | None Supplied | S | 1815243 | c | BTEX and MTBE in soil (Monoaromatics) | L073B-PL | c |
| RO106 | None Supplied | S | 1815243 | c | TPH in (Soil) | L076-PL | c |
| RO106 | None Supplied | S | 1815244 | c | BTEX and MTBE in soil (Monoaromatics) | L073B-PL | c |
| RO106 | None Supplied | S | 1815244 | c | BTEX and MTBE in soil (Monoaromatics) | L073B-PL | c |
| RO106 | None Supplied | S | 1815244 | c | TPH in (Soil) | L076-PL | c |
| RO106 | None Supplied | S | 1815244 | c | Volatile organic compounds in soil | L073B-PL | c |
| RO106 | None Supplied | S | 1815245 | c | None Supplied | None Supplied | None Supplied |

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# Analytical Report Number : 21-66916

| | | | |
|---|---|---|---|
| **Project / Site name:** | Brockhampton West, Havant | **Samples received on:** | 06/04/2021 |
| **Your job number:** | 19-2099.04 | **Samples instructed on/ Analysis started on:** | 06/04/2021 |
| **Your order number:** | DS59329 | **Analysis completed by:** | 12/04/2021 |
| **Report Issue Number:** | 1 | **Report issued on:** | 12/04/2021 |
| **Samples Analysed:** | 3 soil samples | | |

**Signed:**

Claire Brown-Crociquia
Group Customer Services Manager
**For & on behalf of i2 Analytical Ltd.**

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils - 4 weeks from reporting
leachates - 2 weeks from reporting
waters - 2 weeks from reporting
asbestos - 6 months from reporting

Excel copies of reports are only valid when accompanied by this PDF certificate.

Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement.
Application of uncertainty of measurement would provide a range within which the true result lies.
An estimate of measurement uncertainty can be provided on request.

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The results included within the report are representative of the samples submitted for analysis.

**Analytical Report Number: 21-66916**
**Project / Site name: Brockhampton West, Havant**
**Your Order No: DS59329**

| **Lab Sample Number** | | | | 1827506 | 1827507 | 1827508 |
|---|---|---|---|---|---|---|
| **Sample Reference** | | | | RO103 | RO104 | RO106 |
| **Sample Number** | | | | None Supplied | None Supplied | None Supplied |
| **Depth (m)** | | | | 9.20-9.60 | 9.00-9.50 | 9.00-10.00 |
| **Date Sampled** | | | | 25/02/2021 | 11/03/2021 | 16/03/2021 |
| **Time Taken** | | | | None Supplied | None Supplied | None Supplied |
| **Analytical Parameter (Soil Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | | | |
| Stone Content | % | 0.1 | NONE | < 0.1 | < 0.1 | < 0.1 |
| Moisture Content | % | 0.01 | NONE | 19 | 22 | 24 |
| Total mass of sample received | kg | 0.001 | NONE | 1.2 | 1.2 | 1.0 |

**General Inorganics**

| | | | | | | |
|---|---|---|---|---|---|---|
| pH - Automated | pH Units | N/A | MCERTS | 9.3 | 8.5 | 8.4 |
| Total Sulphate as SO4 | % | 0.005 | MCERTS | 0.053 | 0.109 | 0.117 |
| Water Soluble Sulphate as SO4 16hr extraction (2:1) | mg/kg | 2.5 | MCERTS | 210 | 550 | 780 |
| Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent) | g/l | 0.00125 | MCERTS | 0.11 | 0.28 | 0.39 |
| Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent) | mg/l | 1.25 | MCERTS | 107 | 275 | 392 |
| Total Sulphur | % | 0.005 | MCERTS | 0.037 | 0.131 | 0.170 |

U/S = Unsuitable Sample  I/S = Insufficient Sample

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**Analytical Report Number : 21-66916**
**Project / Site name: Brockhampton West, Havant**

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

| Lab Sample Number | Sample Reference | Sample Number | Depth (m) | Sample Description * |
|---|---|---|---|---|
| 1827506 | RO103 | None Supplied | 9.20-9.60 | Brown sandy clay with gravel. |
| 1827507 | RO104 | None Supplied | 9.00-9.50 | Brown clay and sand with vegetation and plastic. |
| 1827508 | RO106 | None Supplied | 9.00-10.00 | Brown clay and sand with vegetation and plastic. |

**Analytical Report Number : 21-66916**
**Project / Site name: Brockhampton West, Havant**

**Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)**

| Analytical Test Name | Analytical Method Description | Analytical Method Reference | Method number | Wet / Dry Analysis | Accreditation Status |
|---|---|---|---|---|---|
| Sulphate, water soluble, in soil (16hr extraction) | Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent). | In house method. | L038-PL | D | MCERTS |
| Moisture Content | Moisture content, determined gravimetrically. (30 oC) | In house method. | L019-UK/PL | W | NONE |
| pH in soil (automated) | Determination of pH in soil by addition of water followed by automated electrometric measurement. | In house method. | L099-PL | D | MCERTS |
| Stones content of soil | Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight. | In-house method based on British Standard Methods and MCERTS requirements. | L019-UK/PL | D | NONE |
| Total Sulphate in soil as % | Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES. | In house method. | L038-PL | D | MCERTS |
| Total Sulphur in soil as % | Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES. | In house method. | L038-PL | D | MCERTS |
| Sulphate, water soluble, in soil | Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent). | In house method. | L038-PL | D | MCERTS |

**For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.**
**For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.**
**Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.**

**Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.**

# Sample Deviation Report

**Analytical Report Number : 21-66916**
**Project / Site name: Brockhampton West, Havant**

| Sample ID | Other ID | Sample Type | Lab Sample Number | Sample Deviation | Test Name | Test Ref | Test Deviation |
|---|---|---|---|---|---|---|---|
| RO103 | None Supplied | S | 1827506 | c | pH in soil (automated) | L099-PL | c |

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# Analytical Report Number : 21-66959

| | | | |
|---|---|---|---|
| **Project / Site name:** | Brockhampton West Havant | **Samples received on:** | 01/04/2021 |
| **Your job number:** | 19 2099 04 | **Samples instructed on/ Analysis started on:** | 06/04/2021 |
| **Your order number:** | DS60240 | **Analysis completed by:** | 22/04/2021 |
| **Report Issue Number:** | 1 | **Report issued on:** | 22/04/2021 |
| **Samples Analysed:** | 30 soil samples | | |

**Signed:** A. Czerwińska

Agnieszka Czerwińska
Technical Reviewer (Reporting Team)
**For & on behalf of i2 Analytical Ltd.**

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland.

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soils - 4 weeks from reporting
leachates - 2 weeks from reporting
waters - 2 weeks from reporting
asbestos - 6 months from reporting

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Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement.
Application of uncertainty of measurement would provide a range within which the true result lies.
An estimate of measurement uncertainty can be provided on request.

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The results included within the report are representative of the samples submitted for analysis.

**Analytical Report Number: 21-66959**
**Project / Site name: Brockhampton West Havant**
**Your Order No: DS60240**

| Lab Sample Number | | | | 1827658 | 1827659 | 1827660 | 1827661 | 1827662 |
|---|---|---|---|---|---|---|---|---|
| Sample Reference | | | | TP101 | TP101 | TP101 | TP102 | TP102 |
| Sample Number | | | | Topsoil | Cap | Waste | Cap | Landfill |
| Depth (m) | | | | 0.10-0.30 | 0.50-0.90 | 2.50-3.00 | 0.80-1.20 | 1.70-2.00 |
| Date Sampled | | | | 29/03/2021 | 29/03/2021 | 29/03/2021 | 29/03/2021 | 29/03/2021 |
| Time Taken | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| **Analytical Parameter (Soil Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | | | | | |
| Stone Content | % | 0.1 | NONE | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Moisture Content | % | 0.01 | NONE | 19 | 15 | 16 | 15 | 19 |
| Total mass of sample received | kg | 0.001 | NONE | 0.30 | 0.30 | 0.30 | 0.30 | 0.30 |
| Asbestos in Soil Screen / Identification Name | Type | N/A | ISO 17025 | - | - | - | - | - |
| Asbestos in Soil | Type | N/A | ISO 17025 | Not-detected | - | Not-detected | Not-detected | - |

**General Inorganics**

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| pH - Automated | pH Units | N/A | MCERTS | 8.0 | 7.9 | 8.0 | 8.5 | 8.0 |
| Total Sulphate as SO4 | % | 0.005 | MCERTS | - | 0.057 | 0.120 | - | 0.157 |
| Water Soluble Sulphate as SO4 16hr extraction (2:1) | mg/kg | 2.5 | MCERTS | 44 | 320 | 900 | 360 | 1500 |
| Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent) | g/l | 0.00125 | MCERTS | 0.022 | 0.16 | 0.45 | 0.18 | 0.75 |
| Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent) | mg/l | 1.25 | MCERTS | 22.1 | 161 | 452 | 179 | 753 |
| Total Sulphur | % | 0.005 | MCERTS | - | 0.034 | 0.097 | - | 0.171 |
| Organic Matter | % | 0.1 | MCERTS | 5.0 | - | - | - | - |

**Phenols by GC-MS**

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Phenol | mg/kg | 0.2 | NONE | - | - | < 0.2 | - | - |
| 2,4,5-Trichlorophenol | mg/kg | 0.2 | NONE | - | - | < 0.2 | - | - |
| 2,4,6-Trichlorophenol | mg/kg | 0.1 | NONE | - | - | < 0.1 | - | - |
| 2,4-Dichlorophenol | mg/kg | 0.3 | NONE | - | - | < 0.3 | - | - |
| 2,4-Dimethylphenol | mg/kg | 0.3 | NONE | - | - | < 0.3 | - | - |
| 2-Chlorophenol | mg/kg | 0.1 | NONE | - | - | < 0.1 | - | - |
| 2-Methylphenol | mg/kg | 0.3 | MCERTS | - | - | < 0.3 | - | - |
| 2-Nitrophenol | mg/kg | 0.3 | NONE | - | - | < 0.3 | - | - |
| 4-Chloro-3-methylphenol | mg/kg | 0.1 | ISO 17025 | - | - | < 0.1 | - | - |
| 4-Methylphenol | mg/kg | 0.2 | NONE | - | - | < 0.2 | - | - |

**Total Phenols**

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Total Phenols (GC-MS) | mg/kg | 1 | NONE | - | - | < 1.0 | - | - |

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**Analytical Report Number: 21-66959**
**Project / Site name: Brockhampton West Havant**
**Your Order No: DS60240**

| Lab Sample Number | | | | 1827658 | 1827659 | 1827660 | 1827661 | 1827662 |
|---|---|---|---|---|---|---|---|---|
| Sample Reference | | | | TP101 | TP101 | TP101 | TP102 | TP102 |
| Sample Number | | | | Topsoil | Cap | Waste | Cap | Landfill |
| Depth (m) | | | | 0.10-0.30 | 0.50-0.90 | 2.50-3.00 | 0.80-1.20 | 1.70-2.00 |
| Date Sampled | | | | 29/03/2021 | 29/03/2021 | 29/03/2021 | 29/03/2021 | 29/03/2021 |
| Time Taken | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| **Analytical Parameter (Soil Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | | | | | |
| **Speciated PAHs** | | | | | | | | |
| Naphthalene | mg/kg | 0.05 | MCERTS | < 0.05 | - | - | < 0.05 | - |
| Acenaphthylene | mg/kg | 0.05 | MCERTS | < 0.05 | - | - | < 0.05 | - |
| Acenaphthene | mg/kg | 0.05 | MCERTS | < 0.05 | - | - | < 0.05 | - |
| Fluorene | mg/kg | 0.05 | MCERTS | < 0.05 | - | - | < 0.05 | - |
| Phenanthrene | mg/kg | 0.05 | MCERTS | 1.1 | - | - | < 0.05 | - |
| Anthracene | mg/kg | 0.05 | MCERTS | 0.30 | - | - | < 0.05 | - |
| Fluoranthene | mg/kg | 0.05 | MCERTS | 2.1 | - | - | < 0.05 | - |
| Pyrene | mg/kg | 0.05 | MCERTS | 1.6 | - | - | < 0.05 | - |
| Benzo(a)anthracene | mg/kg | 0.05 | MCERTS | 1.0 | - | - | < 0.05 | - |
| Chrysene | mg/kg | 0.05 | MCERTS | 0.92 | - | - | < 0.05 | - |
| Benzo(b)fluoranthene | mg/kg | 0.05 | MCERTS | 1.0 | - | - | < 0.05 | - |
| Benzo(k)fluoranthene | mg/kg | 0.05 | MCERTS | 0.46 | - | - | < 0.05 | - |
| Benzo(a)pyrene | mg/kg | 0.05 | MCERTS | 0.86 | - | - | < 0.05 | - |
| Indeno(1,2,3-cd)pyrene | mg/kg | 0.05 | MCERTS | 0.47 | - | - | < 0.05 | - |
| Dibenz(a,h)anthracene | mg/kg | 0.05 | MCERTS | < 0.05 | - | - | < 0.05 | - |
| Benzo(ghi)perylene | mg/kg | 0.05 | MCERTS | 0.48 | - | - | < 0.05 | - |
| **Total PAH** | | | | | | | | |
| Speciated Total EPA-16 PAHs | mg/kg | 0.8 | MCERTS | 10.3 | - | - | < 0.80 | - |
| **Heavy Metals / Metalloids** | | | | | | | | |
| Arsenic (aqua regia extractable) | mg/kg | 1 | MCERTS | 10 | - | 12 | 2.7 | - |
| Cadmium (aqua regia extractable) | mg/kg | 0.2 | MCERTS | 1.1 | - | 0.8 | 0.5 | - |
| Chromium (hexavalent) | mg/kg | 1.2 | MCERTS | < 1.2 | - | < 1.2 | < 1.2 | - |
| Chromium (III) | mg/kg | 1 | NONE | - | - | 32 | - | - |
| Chromium (aqua regia extractable) | mg/kg | 1 | MCERTS | 28 | - | 33 | 4.4 | - |
| Copper (aqua regia extractable) | mg/kg | 1 | MCERTS | 41 | - | 75 | 14 | - |
| Lead (aqua regia extractable) | mg/kg | 1 | MCERTS | 150 | - | 140 | 12 | - |
| Mercury (aqua regia extractable) | mg/kg | 0.3 | MCERTS | < 0.3 | - | < 0.3 | < 0.3 | - |
| Nickel (aqua regia extractable) | mg/kg | 1 | MCERTS | 16 | - | 26 | 5.5 | - |
| Zinc (aqua regia extractable) | mg/kg | 1 | MCERTS | 110 | - | 340 | 35 | - |

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**Analytical Report Number: 21-66959**
**Project / Site name: Brockhampton West Havant**
**Your Order No: DS60240**

| Lab Sample Number | | | | 1827658 | 1827659 | 1827660 | 1827661 | 1827662 |
|---|---|---|---|---|---|---|---|---|
| Sample Reference | | | | TP101 | TP101 | TP101 | TP102 | TP102 |
| Sample Number | | | | Topsoil | Cap | Waste | Cap | Landfill |
| Depth (m) | | | | 0.10-0.30 | 0.50-0.90 | 2.50-3.00 | 0.80-1.20 | 1.70-2.00 |
| Date Sampled | | | | 29/03/2021 | 29/03/2021 | 29/03/2021 | 29/03/2021 | 29/03/2021 |
| Time Taken | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| **Analytical Parameter (Soil Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | | | | | |
| **Monoaromatics & Oxygenates** | | | | | | | | |
| Benzene | mg/kg | 0.001 | MCERTS | < 0.001 | - | < 0.001 | < 0.001 | - |
| Toluene | mg/kg | 0.001 | MCERTS | < 0.001 | - | < 0.001 | < 0.001 | - |
| Ethylbenzene | mg/kg | 0.001 | MCERTS | < 0.001 | - | 1.2 | < 0.001 | - |
| p & m-xylene | mg/kg | 0.001 | MCERTS | < 0.001 | - | 0.16 | < 0.001 | - |
| o-xylene | mg/kg | 0.001 | MCERTS | < 0.001 | - | 0.064 | < 0.001 | - |
| MTBE (Methyl Tertiary Butyl Ether) | mg/kg | 0.001 | MCERTS | < 0.001 | - | < 0.001 | < 0.001 | - |
| **Petroleum Hydrocarbons** | | | | | | | | |
| TPH-CWG - Aliphatic >EC5 - EC6 | mg/kg | 0.001 | MCERTS | < 0.001 | - | < 0.001 | < 0.001 | - |
| TPH-CWG - Aliphatic >EC6 - EC8 | mg/kg | 0.001 | MCERTS | < 0.001 | - | < 0.001 | < 0.001 | - |
| TPH-CWG - Aliphatic >EC8 - EC10 | mg/kg | 0.001 | MCERTS | < 0.001 | - | < 0.001 | < 0.001 | - |
| TPH-CWG - Aliphatic >EC10 - EC12 | mg/kg | 1 | MCERTS | < 1.0 | - | 6.6 | < 1.0 | - |
| TPH-CWG - Aliphatic >EC12 - EC16 | mg/kg | 2 | MCERTS | < 2.0 | - | 23 | < 2.0 | - |
| TPH-CWG - Aliphatic >EC16 - EC21 | mg/kg | 8 | MCERTS | < 8.0 | - | 68 | < 8.0 | - |
| TPH-CWG - Aliphatic >EC21 - EC35 | mg/kg | 8 | MCERTS | < 8.0 | - | 240 | 15 | - |
| TPH-CWG - Aliphatic >EC35 - EC40 | mg/kg | 10 | NONE | < 10 | - | 84 | < 10 | - |
| TPH-CWG - Aliphatic (EC5 - EC35) | mg/kg | 10 | MCERTS | < 10 | - | 340 | 16 | - |
| TPH-CWG - Aromatic >EC5 - EC7 | mg/kg | 0.001 | MCERTS | < 0.001 | - | < 0.001 | < 0.001 | - |
| TPH-CWG - Aromatic >EC7 - EC8 | mg/kg | 0.001 | MCERTS | < 0.001 | - | < 0.001 | < 0.001 | - |
| TPH-CWG - Aromatic >EC8 - EC10 | mg/kg | 0.001 | MCERTS | < 0.001 | - | 1.9 | < 0.001 | - |
| TPH-CWG - Aromatic >EC10 - EC12 | mg/kg | 1 | MCERTS | < 1.0 | - | 14 | < 1.0 | - |
| TPH-CWG - Aromatic >EC12 - EC16 | mg/kg | 2 | MCERTS | < 2.0 | - | 20 | < 2.0 | - |
| TPH-CWG - Aromatic >EC16 - EC21 | mg/kg | 10 | MCERTS | < 10 | - | 47 | < 10 | - |
| TPH-CWG - Aromatic >EC21 - EC35 | mg/kg | 10 | MCERTS | < 10 | - | 130 | < 10 | - |
| TPH-CWG - Aromatic >EC35 - EC40 | mg/kg | 10 | NONE | < 10 | - | 85 | < 10 | - |
| TPH-CWG - Aromatic (EC5 - EC35) | mg/kg | 10 | MCERTS | < 10 | - | 210 | < 10 | - |
| TPH (C35 - C40) | mg/kg | 10 | MCERTS | < 10 | - | 170 | < 10 | - |
| **VOCs** | | | | | | | | |
| Chloromethane | mg/kg | 0.001 | ISO 17025 | - | - | < 0.0010 | - | - |
| Chloroethane | mg/kg | 0.001 | NONE | - | - | < 0.0010 | - | - |
| Bromomethane | mg/kg | 0.001 | ISO 17025 | - | - | < 0.0010 | - | - |
| Vinyl Chloride | mg/kg | 0.001 | NONE | - | - | < 0.0010 | - | - |
| Trichlorofluoromethane | mg/kg | 0.001 | NONE | - | - | < 0.0010 | - | - |
| 1,1-Dichloroethene | mg/kg | 0.001 | NONE | - | - | < 0.0010 | - | - |
| 1,1,2-Trichloro 1,2,2-Trifluoroethane | mg/kg | 0.001 | ISO 17025 | - | - | < 0.0010 | - | - |
| Cis-1,2-dichloroethene | mg/kg | 0.001 | MCERTS | - | - | < 0.0010 | - | - |
| MTBE (Methyl Tertiary Butyl Ether) | mg/kg | 0.001 | MCERTS | - | - | < 0.0010 | - | - |
| 1,1-Dichloroethane | mg/kg | 0.001 | MCERTS | - | - | < 0.0010 | - | - |
| 2,2-Dichloropropane | mg/kg | 0.001 | MCERTS | - | - | < 0.0010 | - | - |
| Trichloromethane | mg/kg | 0.001 | MCERTS | - | - | < 0.0010 | - | - |
| 1,1,1-Trichloroethane | mg/kg | 0.001 | MCERTS | - | - | < 0.0010 | - | - |
| 1,2-Dichloroethane | mg/kg | 0.001 | MCERTS | - | - | < 0.0010 | - | - |
| 1,1-Dichloropropene | mg/kg | 0.001 | MCERTS | - | - | < 0.0010 | - | - |
| Trans-1,2-dichloroethene | mg/kg | 0.001 | NONE | - | - | < 0.0010 | - | - |
| Benzene | mg/kg | 0.001 | MCERTS | - | - | < 0.0010 | - | - |
| Tetrachloromethane | mg/kg | 0.001 | MCERTS | - | - | < 0.0010 | - | - |
| 1,2-Dichloropropane | mg/kg | 0.001 | MCERTS | - | - | < 0.0010 | - | - |
| Trichloroethene | mg/kg | 0.001 | MCERTS | - | - | < 0.0010 | - | - |
| Dibromomethane | mg/kg | 0.001 | MCERTS | - | - | < 0.0010 | - | - |

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**Analytical Report Number: 21-66959**
**Project / Site name: Brockhampton West Havant**
**Your Order No: DS60240**

| **Lab Sample Number** | | | | 1827658 | 1827659 | 1827660 | 1827661 | 1827662 |
|---|---|---|---|---|---|---|---|---|
| **Sample Reference** | | | | TP101 | TP101 | TP101 | TP102 | TP102 |
| **Sample Number** | | | | Topsoil | Cap | Waste | Cap | Landfill |
| **Depth (m)** | | | | 0.10-0.30 | 0.50-0.90 | 2.50-3.00 | 0.80-1.20 | 1.70-2.00 |
| **Date Sampled** | | | | 29/03/2021 | 29/03/2021 | 29/03/2021 | 29/03/2021 | 29/03/2021 |
| **Time Taken** | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| **Analytical Parameter (Soil Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | | | | | |
| Bromodichloromethane | mg/kg | 0.001 | MCERTS | - | - | < 0.0010 | - | - |
| Cis-1,3-dichloropropene | mg/kg | 0.001 | ISO 17025 | - | - | < 0.0010 | - | - |
| Trans-1,3-dichloropropene | mg/kg | 0.001 | ISO 17025 | - | - | < 0.0010 | - | - |
| Toluene | mg/kg | 0.001 | MCERTS | - | - | < 0.0010 | - | - |
| 1,1,2-Trichloroethane | mg/kg | 0.001 | MCERTS | - | - | < 0.0010 | - | - |
| 1,3-Dichloropropane | mg/kg | 0.001 | ISO 17025 | - | - | < 0.0010 | - | - |
| Dibromochloromethane | mg/kg | 0.001 | ISO 17025 | - | - | < 0.0010 | - | - |
| Tetrachloroethene | mg/kg | 0.001 | NONE | - | - | < 0.0010 | - | - |
| 1,2-Dibromoethane | mg/kg | 0.001 | ISO 17025 | - | - | < 0.0010 | - | - |
| Chlorobenzene | mg/kg | 0.001 | MCERTS | - | - | < 0.0010 | - | - |
| 1,1,1,2-Tetrachloroethane | mg/kg | 0.001 | MCERTS | - | - | < 0.0010 | - | - |
| Ethylbenzene | mg/kg | 0.001 | MCERTS | - | - | 1.2 | - | - |
| p & m-Xylene | mg/kg | 0.001 | MCERTS | - | - | 0.16 | - | - |
| Styrene | mg/kg | 0.001 | MCERTS | - | - | < 0.0010 | - | - |
| Tribromomethane | mg/kg | 0.001 | NONE | - | - | < 0.0010 | - | - |
| o-Xylene | mg/kg | 0.001 | MCERTS | - | - | 0.064 | - | - |
| 1,1,2,2-Tetrachloroethane | mg/kg | 0.001 | MCERTS | - | - | < 0.0010 | - | - |
| Isopropylbenzene | mg/kg | 0.001 | MCERTS | - | - | < 0.0010 | - | - |
| Bromobenzene | mg/kg | 0.001 | MCERTS | - | - | < 0.0010 | - | - |
| n-Propylbenzene | mg/kg | 0.001 | ISO 17025 | - | - | 0.042 | - | - |
| 2-Chlorotoluene | mg/kg | 0.001 | MCERTS | - | - | < 0.0010 | - | - |
| 4-Chlorotoluene | mg/kg | 0.001 | MCERTS | - | - | < 0.0010 | - | - |
| 1,3,5-Trimethylbenzene | mg/kg | 0.001 | ISO 17025 | - | - | 0.087 | - | - |
| tert-Butylbenzene | mg/kg | 0.001 | MCERTS | - | - | < 0.0010 | - | - |
| 1,2,4-Trimethylbenzene | mg/kg | 0.001 | ISO 17025 | - | - | 0.28 | - | - |
| sec-Butylbenzene | mg/kg | 0.001 | MCERTS | - | - | < 0.0010 | - | - |
| 1,3-Dichlorobenzene | mg/kg | 0.001 | ISO 17025 | - | - | < 0.0010 | - | - |
| p-Isopropyltoluene | mg/kg | 0.001 | ISO 17025 | - | - | 0.014 | - | - |
| 1,2-Dichlorobenzene | mg/kg | 0.001 | MCERTS | - | - | < 0.0010 | - | - |
| 1,4-Dichlorobenzene | mg/kg | 0.001 | MCERTS | - | - | < 0.0010 | - | - |
| Butylbenzene | mg/kg | 0.001 | MCERTS | - | - | < 0.0010 | - | - |
| 1,2-Dibromo-3-chloropropane | mg/kg | 0.001 | ISO 17025 | - | - | < 0.0010 | - | - |
| 1,2,4-Trichlorobenzene | mg/kg | 0.001 | MCERTS | - | - | < 0.0010 | - | - |
| Hexachlorobutadiene | mg/kg | 0.001 | MCERTS | - | - | < 0.0010 | - | - |
| 1,2,3-Trichlorobenzene | mg/kg | 0.001 | ISO 17025 | - | - | < 0.0010 | - | - |

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**Analytical Report Number: 21-66959**
**Project / Site name: Brockhampton West Havant**
**Your Order No: DS60240**

| Lab Sample Number | | | | 1827658 | 1827659 | 1827660 | 1827661 | 1827662 |
|---|---|---|---|---|---|---|---|---|
| Sample Reference | | | | TP101 | TP101 | TP101 | TP102 | TP102 |
| Sample Number | | | | Topsoil | Cap | Waste | Cap | Landfill |
| Depth (m) | | | | 0.10-0.30 | 0.50-0.90 | 2.50-3.00 | 0.80-1.20 | 1.70-2.00 |
| Date Sampled | | | | 29/03/2021 | 29/03/2021 | 29/03/2021 | 29/03/2021 | 29/03/2021 |
| Time Taken | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| **Analytical Parameter (Soil Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | | | | | |
| **SVOCs** | | | | | | | | |
| Aniline | mg/kg | 0.1 | NONE | - | - | < 0.1 | - | - |
| Phenol | mg/kg | 0.2 | ISO 17025 | - | - | < 0.2 | - | - |
| 2-Chlorophenol | mg/kg | 0.1 | MCERTS | - | - | < 0.1 | - | - |
| Bis(2-chloroethyl)ether | mg/kg | 0.2 | MCERTS | - | - | < 0.2 | - | - |
| 1,3-Dichlorobenzene | mg/kg | 0.2 | MCERTS | - | - | < 0.2 | - | - |
| 1,2-Dichlorobenzene | mg/kg | 0.1 | MCERTS | - | - | < 0.1 | - | - |
| 1,4-Dichlorobenzene | mg/kg | 0.2 | MCERTS | - | - | < 0.2 | - | - |
| Bis(2-chloroisopropyl)ether | mg/kg | 0.1 | MCERTS | - | - | < 0.1 | - | - |
| 2-Methylphenol | mg/kg | 0.3 | MCERTS | - | - | < 0.3 | - | - |
| Hexachloroethane | mg/kg | 0.05 | MCERTS | - | - | < 0.05 | - | - |
| Nitrobenzene | mg/kg | 0.3 | MCERTS | - | - | < 0.3 | - | - |
| 4-Methylphenol | mg/kg | 0.2 | NONE | - | - | < 0.2 | - | - |
| Isophorone | mg/kg | 0.2 | MCERTS | - | - | < 0.2 | - | - |
| 2-Nitrophenol | mg/kg | 0.3 | MCERTS | - | - | < 0.3 | - | - |
| 2,4-Dimethylphenol | mg/kg | 0.3 | MCERTS | - | - | < 0.3 | - | - |
| Bis(2-chloroethoxy)methane | mg/kg | 0.3 | MCERTS | - | - | < 0.3 | - | - |
| 1,2,4-Trichlorobenzene | mg/kg | 0.3 | MCERTS | - | - | < 0.3 | - | - |
| Naphthalene | mg/kg | 0.05 | MCERTS | - | - | 0.62 | - | - |
| 2,4-Dichlorophenol | mg/kg | 0.3 | MCERTS | - | - | < 0.3 | - | - |
| 4-Chloroaniline | mg/kg | 0.1 | NONE | - | - | < 0.1 | - | - |
| Hexachlorobutadiene | mg/kg | 0.1 | MCERTS | - | - | < 0.1 | - | - |
| 4-Chloro-3-methylphenol | mg/kg | 0.1 | NONE | - | - | < 0.1 | - | - |
| 2,4,6-Trichlorophenol | mg/kg | 0.1 | MCERTS | - | - | < 0.1 | - | - |
| 2,4,5-Trichlorophenol | mg/kg | 0.2 | MCERTS | - | - | < 0.2 | - | - |
| 2-Methylnaphthalene | mg/kg | 0.1 | NONE | - | - | 0.5 | - | - |
| 2-Chloronaphthalene | mg/kg | 0.1 | MCERTS | - | - | < 0.1 | - | - |
| Dimethylphthalate | mg/kg | 0.1 | MCERTS | - | - | < 0.1 | - | - |
| 2,6-Dinitrotoluene | mg/kg | 0.1 | MCERTS | - | - | < 0.1 | - | - |
| Acenaphthylene | mg/kg | 0.05 | MCERTS | - | - | < 0.05 | - | - |
| Acenaphthene | mg/kg | 0.05 | MCERTS | - | - | 0.51 | - | - |
| 2,4-Dinitrotoluene | mg/kg | 0.2 | MCERTS | - | - | < 0.2 | - | - |
| Dibenzofuran | mg/kg | 0.2 | MCERTS | - | - | < 0.2 | - | - |
| 4-Chlorophenyl phenyl ether | mg/kg | 0.3 | ISO 17025 | - | - | < 0.3 | - | - |
| Diethyl phthalate | mg/kg | 0.2 | MCERTS | - | - | < 0.2 | - | - |
| 4-Nitroaniline | mg/kg | 0.2 | MCERTS | - | - | < 0.2 | - | - |
| Fluorene | mg/kg | 0.05 | MCERTS | - | - | 0.63 | - | - |
| Azobenzene | mg/kg | 0.3 | MCERTS | - | - | < 0.3 | - | - |
| Bromophenyl phenyl ether | mg/kg | 0.2 | MCERTS | - | - | < 0.2 | - | - |
| Hexachlorobenzene | mg/kg | 0.3 | MCERTS | - | - | < 0.3 | - | - |
| Phenanthrene | mg/kg | 0.05 | MCERTS | - | - | 3.3 | - | - |
| Anthracene | mg/kg | 0.05 | MCERTS | - | - | 0.78 | - | - |
| Carbazole | mg/kg | 0.3 | MCERTS | - | - | < 0.3 | - | - |
| Dibutyl phthalate | mg/kg | 0.2 | MCERTS | - | - | < 0.2 | - | - |
| Anthraquinone | mg/kg | 0.3 | MCERTS | - | - | < 0.3 | - | - |
| Fluoranthene | mg/kg | 0.05 | MCERTS | - | - | 3.8 | - | - |
| Pyrene | mg/kg | 0.05 | MCERTS | - | - | 3.4 | - | - |
| Butyl benzyl phthalate | mg/kg | 0.3 | ISO 17025 | - | - | < 0.3 | - | - |
| Benzo(a)anthracene | mg/kg | 0.05 | MCERTS | - | - | 1.6 | - | - |
| Chrysene | mg/kg | 0.05 | MCERTS | - | - | 1.2 | - | - |
| Benzo(b)fluoranthene | mg/kg | 0.05 | MCERTS | - | - | 1.6 | - | - |
| Benzo(k)fluoranthene | mg/kg | 0.05 | MCERTS | - | - | 0.63 | - | - |
| Benzo(a)pyrene | mg/kg | 0.05 | MCERTS | - | - | 1.3 | - | - |

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**Analytical Report Number: 21-66959**
**Project / Site name: Brockhampton West Havant**
**Your Order No: DS60240**

| Lab Sample Number | | | | 1827658 | 1827659 | 1827660 | 1827661 | 1827662 |
|---|---|---|---|---|---|---|---|---|
| Sample Reference | | | | TP101 | TP101 | TP101 | TP102 | TP102 |
| Sample Number | | | | Topsoil | Cap | Waste | Cap | Landfill |
| Depth (m) | | | | 0.10-0.30 | 0.50-0.90 | 2.50-3.00 | 0.80-1.20 | 1.70-2.00 |
| Date Sampled | | | | 29/03/2021 | 29/03/2021 | 29/03/2021 | 29/03/2021 | 29/03/2021 |
| Time Taken | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| **Analytical Parameter (Soil Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | | | | | |
| Indeno(1,2,3-cd)pyrene | mg/kg | 0.05 | MCERTS | - | - | 0.75 | - | - |
| Dibenz(a,h)anthracene | mg/kg | 0.05 | MCERTS | - | - | < 0.05 | - | - |
| Benzo(ghi)perylene | mg/kg | 0.05 | MCERTS | - | - | 0.86 | - | - |

U/S = Unsuitable Sample  I/S = Insufficient Sample

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**Analytical Report Number: 21-66959**
**Project / Site name: Brockhampton West Havant**
**Your Order No: DS60240**

| Lab Sample Number | | | | 1827663 | 1827664 | 1827665 | 1827666 | 1827667 |
|---|---|---|---|---|---|---|---|---|
| Sample Reference | | | | TP103 | TP104 | TP104 | TP104 | TP106 |
| Sample Number | | | | Cap | Topsoil | Cap x2 | Waste | Cap |
| Depth (m) | | | | 1.50-1.80 | 0.00-0.15 | 0.30-0.70 | 2.00-2.50 | 0.50-0.70 |
| Date Sampled | | | | 30/03/2021 | 30/03/2021 | 30/03/2021 | 30/03/2021 | 29/03/2021 |
| Time Taken | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| **Analytical Parameter (Soil Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | | | | | |
| Stone Content | % | 0.1 | NONE | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Moisture Content | % | 0.01 | NONE | 20 | 15 | 18 | 25 | 14 |
| Total mass of sample received | kg | 0.001 | NONE | 0.30 | 0.30 | 0.30 | 0.30 | 0.30 |
| Asbestos in Soil Screen / Identification Name | Type | N/A | ISO 17025 | - | - | - | - | - |
| Asbestos in Soil | Type | N/A | ISO 17025 | Not-detected | Not-detected | Not-detected | Not-detected | Not-detected |

**General Inorganics**

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| pH - Automated | pH Units | N/A | MCERTS | 7.5 | 8.2 | 8.3 | 8.1 | 8.2 |
| Total Sulphate as SO4 | % | 0.005 | MCERTS | - | - | 0.049 | - | - |
| Water Soluble Sulphate as SO4 16hr extraction (2:1) | mg/kg | 2.5 | MCERTS | 8400 | 42 | 260 | - | 740 |
| Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent) | g/l | 0.00125 | MCERTS | 4.2 | 0.021 | 0.13 | 0.46 | 0.37 |
| Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent) | mg/l | 1.25 | MCERTS | 4220 | 20.8 | 129 | - | 372 |
| Total Sulphur | % | 0.005 | MCERTS | - | - | 0.164 | - | - |
| Organic Matter | % | 0.1 | MCERTS | - | 2.9 | - | 5.6 | 3.8 |

**Phenols by GC-MS**

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Phenol | mg/kg | 0.2 | NONE | - | - | - | - | < 0.2 |
| 2,4,5-Trichlorophenol | mg/kg | 0.2 | NONE | - | - | - | - | < 0.2 |
| 2,4,6-Trichlorophenol | mg/kg | 0.1 | NONE | - | - | - | - | < 0.1 |
| 2,4-Dichlorophenol | mg/kg | 0.3 | NONE | - | - | - | - | < 0.3 |
| 2,4-Dimethylphenol | mg/kg | 0.3 | NONE | - | - | - | - | < 0.3 |
| 2-Chlorophenol | mg/kg | 0.1 | NONE | - | - | - | - | < 0.1 |
| 2-Methylphenol | mg/kg | 0.3 | MCERTS | - | - | - | - | < 0.3 |
| 2-Nitrophenol | mg/kg | 0.3 | NONE | - | - | - | - | < 0.3 |
| 4-Chloro-3-methylphenol | mg/kg | 0.1 | ISO 17025 | - | - | - | - | < 0.1 |
| 4-Methylphenol | mg/kg | 0.2 | NONE | - | - | - | - | < 0.2 |

**Total Phenols**

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Total Phenols (GC-MS) | mg/kg | 1 | NONE | - | - | - | - | < 1.0 |

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**Analytical Report Number: 21-66959**
**Project / Site name: Brockhampton West Havant**
**Your Order No: DS60240**

| Lab Sample Number | | | | 1827663 | 1827664 | 1827665 | 1827666 | 1827667 |
|---|---|---|---|---|---|---|---|---|
| Sample Reference | | | | TP103 | TP104 | TP104 | TP104 | TP106 |
| Sample Number | | | | Cap | Topsoil | Cap x2 | Waste | Cap |
| Depth (m) | | | | 1.50-1.80 | 0.00-0.15 | 0.30-0.70 | 2.00-2.50 | 0.50-0.70 |
| Date Sampled | | | | 30/03/2021 | 30/03/2021 | 30/03/2021 | 30/03/2021 | 29/03/2021 |
| Time Taken | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| **Analytical Parameter (Soil Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | | | | | |
| **Speciated PAHs** | | | | | | | | |
| Naphthalene | mg/kg | 0.05 | MCERTS | < 0.05 | < 0.05 | < 0.05 | - | 0.39 |
| Acenaphthylene | mg/kg | 0.05 | MCERTS | < 0.05 | < 0.05 | < 0.05 | - | < 0.05 |
| Acenaphthene | mg/kg | 0.05 | MCERTS | < 0.05 | < 0.05 | < 0.05 | - | < 0.05 |
| Fluorene | mg/kg | 0.05 | MCERTS | < 0.05 | < 0.05 | < 0.05 | - | < 0.05 |
| Phenanthrene | mg/kg | 0.05 | MCERTS | < 0.05 | < 0.05 | < 0.05 | - | 0.69 |
| Anthracene | mg/kg | 0.05 | MCERTS | < 0.05 | < 0.05 | < 0.05 | - | 0.18 |
| Fluoranthene | mg/kg | 0.05 | MCERTS | < 0.05 | < 0.05 | < 0.05 | - | 2.2 |
| Pyrene | mg/kg | 0.05 | MCERTS | < 0.05 | < 0.05 | < 0.05 | - | 2.1 |
| Benzo(a)anthracene | mg/kg | 0.05 | MCERTS | < 0.05 | < 0.05 | < 0.05 | - | 1.2 |
| Chrysene | mg/kg | 0.05 | MCERTS | < 0.05 | < 0.05 | < 0.05 | - | 1.0 |
| Benzo(b)fluoranthene | mg/kg | 0.05 | MCERTS | < 0.05 | < 0.05 | < 0.05 | - | 1.1 |
| Benzo(k)fluoranthene | mg/kg | 0.05 | MCERTS | < 0.05 | < 0.05 | < 0.05 | - | 0.79 |
| Benzo(a)pyrene | mg/kg | 0.05 | MCERTS | < 0.05 | < 0.05 | < 0.05 | - | 1.4 |
| Indeno(1,2,3-cd)pyrene | mg/kg | 0.05 | MCERTS | < 0.05 | < 0.05 | < 0.05 | - | 0.62 |
| Dibenz(a,h)anthracene | mg/kg | 0.05 | MCERTS | < 0.05 | < 0.05 | < 0.05 | - | < 0.05 |
| Benzo(ghi)perylene | mg/kg | 0.05 | MCERTS | < 0.05 | < 0.05 | < 0.05 | - | 0.72 |

**Total PAH**

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Speciated Total EPA-16 PAHs | mg/kg | 0.8 | MCERTS | < 0.80 | < 0.80 | < 0.80 | - | 12.3 |

**Heavy Metals / Metalloids**

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Arsenic (aqua regia extractable) | mg/kg | 1 | MCERTS | 16 | 6.3 | 7.1 | 11 | 11 |
| Cadmium (aqua regia extractable) | mg/kg | 0.2 | MCERTS | < 0.2 | 0.7 | 0.6 | 1.7 | 1.2 |
| Chromium (hexavalent) | mg/kg | 1.2 | MCERTS | < 1.2 | < 1.2 | < 1.2 | 1.8 | < 1.2 |
| Chromium (III) | mg/kg | 1 | NONE | - | - | - | 26 | - |
| Chromium (aqua regia extractable) | mg/kg | 1 | MCERTS | 27 | 21 | 19 | 28 | 26 |
| Copper (aqua regia extractable) | mg/kg | 1 | MCERTS | 34 | 26 | 32 | 80 | 55 |
| Lead (aqua regia extractable) | mg/kg | 1 | MCERTS | 30 | 21 | 45 | 170 | 100 |
| Mercury (aqua regia extractable) | mg/kg | 0.3 | MCERTS | < 0.3 | < 0.3 | < 0.3 | < 0.3 | < 0.3 |
| Nickel (aqua regia extractable) | mg/kg | 1 | MCERTS | 30 | 17 | 16 | 120 | 130 |
| Zinc (aqua regia extractable) | mg/kg | 1 | MCERTS | 77 | 53 | 74 | 400 | 240 |

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**Analytical Report Number: 21-66959**
**Project / Site name: Brockhampton West Havant**
**Your Order No: DS60240**

| Lab Sample Number | | | | 1827663 | 1827664 | 1827665 | 1827666 | 1827667 |
|---|---|---|---|---|---|---|---|---|
| Sample Reference | | | | TP103 | TP104 | TP104 | TP104 | TP106 |
| Sample Number | | | | Cap | Topsoil | Cap x2 | Waste | Cap |
| Depth (m) | | | | 1.50-1.80 | 0.00-0.15 | 0.30-0.70 | 2.00-2.50 | 0.50-0.70 |
| Date Sampled | | | | 30/03/2021 | 30/03/2021 | 30/03/2021 | 30/03/2021 | 29/03/2021 |
| Time Taken | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| **Analytical Parameter (Soil Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | | | | | |
| **Monoaromatics & Oxygenates** | | | | | | | | |
| Benzene | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 |
| Toluene | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 |
| Ethylbenzene | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | < 0.001 | 0.084 | < 0.001 |
| p & m-xylene | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | < 0.001 | 0.034 | < 0.001 |
| o-xylene | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | < 0.001 | 0.061 | < 0.001 |
| MTBE (Methyl Tertiary Butyl Ether) | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 |
| **Petroleum Hydrocarbons** | | | | | | | | |
| TPH-CWG - Aliphatic >EC5 - EC6 | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 |
| TPH-CWG - Aliphatic >EC6 - EC8 | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 |
| TPH-CWG - Aliphatic >EC8 - EC10 | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | < 0.001 | 2.4 | < 0.001 |
| TPH-CWG - Aliphatic >EC10 - EC12 | mg/kg | 1 | MCERTS | 20 | < 1.0 | < 1.0 | 3.6 | 8.1 |
| TPH-CWG - Aliphatic >EC12 - EC16 | mg/kg | 2 | MCERTS | 8.1 | < 2.0 | < 2.0 | 35 | 9.3 |
| TPH-CWG - Aliphatic >EC16 - EC21 | mg/kg | 8 | MCERTS | < 8.0 | < 8.0 | < 8.0 | 94 | 11 |
| TPH-CWG - Aliphatic >EC21 - EC35 | mg/kg | 8 | MCERTS | < 8.0 | < 8.0 | < 8.0 | 520 | 130 |
| TPH-CWG - Aliphatic >EC35 - EC40 | mg/kg | 10 | NONE | < 10 | < 10 | < 10 | 150 | 39 |
| TPH-CWG - Aliphatic (EC5 - EC35) | mg/kg | 10 | MCERTS | 28 | < 10 | < 10 | 650 | 150 |
| TPH-CWG - Aromatic >EC5 - EC7 | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 |
| TPH-CWG - Aromatic >EC7 - EC8 | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 |
| TPH-CWG - Aromatic >EC8 - EC10 | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | < 0.001 | 0.57 | < 0.001 |
| TPH-CWG - Aromatic >EC10 - EC12 | mg/kg | 1 | MCERTS | < 1.0 | < 1.0 | < 1.0 | 9.5 | < 1.0 |
| TPH-CWG - Aromatic >EC12 - EC16 | mg/kg | 2 | MCERTS | < 2.0 | < 2.0 | < 2.0 | 27 | 4.4 |
| TPH-CWG - Aromatic >EC16 - EC21 | mg/kg | 10 | MCERTS | < 10 | < 10 | < 10 | 62 | < 10 |
| TPH-CWG - Aromatic >EC21 - EC35 | mg/kg | 10 | MCERTS | < 10 | < 10 | < 10 | 350 | 63 |
| TPH-CWG - Aromatic >EC35 - EC40 | mg/kg | 10 | NONE | < 10 | < 10 | < 10 | 160 | 29 |
| TPH-CWG - Aromatic (EC5 - EC35) | mg/kg | 10 | MCERTS | < 10 | < 10 | < 10 | 450 | 76 |
| TPH (C35 - C40) | mg/kg | 10 | MCERTS | < 10 | < 10 | < 10 | 310 | 68 |
| **VOCs** | | | | | | | | |
| Chloromethane | mg/kg | 0.001 | ISO 17025 | - | - | - | < 0.0010 | - |
| Chloroethane | mg/kg | 0.001 | NONE | - | - | - | < 0.0010 | - |
| Bromomethane | mg/kg | 0.001 | ISO 17025 | - | - | - | < 0.0010 | - |
| Vinyl Chloride | mg/kg | 0.001 | NONE | - | - | - | < 0.0010 | - |
| Trichlorofluoromethane | mg/kg | 0.001 | NONE | - | - | - | < 0.0010 | - |
| 1,1-Dichloroethene | mg/kg | 0.001 | NONE | - | - | - | < 0.0010 | - |
| 1,1,2-Trichloro 1,2,2-Trifluoroethane | mg/kg | 0.001 | ISO 17025 | - | - | - | < 0.0010 | - |
| Cis-1,2-dichloroethene | mg/kg | 0.001 | MCERTS | - | - | - | < 0.0010 | - |
| MTBE (Methyl Tertiary Butyl Ether) | mg/kg | 0.001 | MCERTS | - | - | - | < 0.0010 | - |
| 1,1-Dichloroethane | mg/kg | 0.001 | MCERTS | - | - | - | < 0.0010 | - |
| 2,2-Dichloropropane | mg/kg | 0.001 | MCERTS | - | - | - | < 0.0010 | - |
| Trichloromethane | mg/kg | 0.001 | MCERTS | - | - | - | < 0.0010 | - |
| 1,1,1-Trichloroethane | mg/kg | 0.001 | MCERTS | - | - | - | < 0.0010 | - |
| 1,2-Dichloroethane | mg/kg | 0.001 | MCERTS | - | - | - | < 0.0010 | - |
| 1,1-Dichloropropene | mg/kg | 0.001 | MCERTS | - | - | - | < 0.0010 | - |
| Trans-1,2-dichloroethene | mg/kg | 0.001 | NONE | - | - | - | < 0.0010 | - |
| Benzene | mg/kg | 0.001 | MCERTS | - | - | - | < 0.0010 | - |
| Tetrachloromethane | mg/kg | 0.001 | MCERTS | - | - | - | < 0.0010 | - |
| 1,2-Dichloropropane | mg/kg | 0.001 | MCERTS | - | - | - | < 0.0010 | - |
| Trichloroethene | mg/kg | 0.001 | MCERTS | - | - | - | < 0.0010 | - |
| Dibromomethane | mg/kg | 0.001 | MCERTS | - | - | - | < 0.0010 | - |

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**Analytical Report Number: 21-66959**
**Project / Site name: Brockhampton West Havant**
**Your Order No: DS60240**

| Lab Sample Number | | | | 1827663 | 1827664 | 1827665 | 1827666 | 1827667 |
|---|---|---|---|---|---|---|---|---|
| Sample Reference | | | | TP103 | TP104 | TP104 | TP104 | TP106 |
| Sample Number | | | | Cap | Topsoil | Cap x2 | Waste | Cap |
| Depth (m) | | | | 1.50-1.80 | 0.00-0.15 | 0.30-0.70 | 2.00-2.50 | 0.50-0.70 |
| Date Sampled | | | | 30/03/2021 | 30/03/2021 | 30/03/2021 | 30/03/2021 | 29/03/2021 |
| Time Taken | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| **Analytical Parameter (Soil Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | | | | | |
| Bromodichloromethane | mg/kg | 0.001 | MCERTS | - | - | - | < 0.0010 | - |
| Cis-1,3-dichloropropene | mg/kg | 0.001 | ISO 17025 | - | - | - | < 0.0010 | - |
| Trans-1,3-dichloropropene | mg/kg | 0.001 | ISO 17025 | - | - | - | < 0.0010 | - |
| Toluene | mg/kg | 0.001 | MCERTS | - | - | - | < 0.0010 | - |
| 1,1,2-Trichloroethane | mg/kg | 0.001 | MCERTS | - | - | - | < 0.0010 | - |
| 1,3-Dichloropropane | mg/kg | 0.001 | ISO 17025 | - | - | - | < 0.0010 | - |
| Dibromochloromethane | mg/kg | 0.001 | ISO 17025 | - | - | - | < 0.0010 | - |
| Tetrachloroethene | mg/kg | 0.001 | NONE | - | - | - | < 0.0010 | - |
| 1,2-Dibromoethane | mg/kg | 0.001 | ISO 17025 | - | - | - | < 0.0010 | - |
| Chlorobenzene | mg/kg | 0.001 | MCERTS | - | - | - | < 0.0010 | - |
| 1,1,1,2-Tetrachloroethane | mg/kg | 0.001 | MCERTS | - | - | - | < 0.0010 | - |
| Ethylbenzene | mg/kg | 0.001 | MCERTS | - | - | - | 0.085 | - |
| p & m-Xylene | mg/kg | 0.001 | MCERTS | - | - | - | 0.034 | - |
| Styrene | mg/kg | 0.001 | MCERTS | - | - | - | < 0.0010 | - |
| Tribromomethane | mg/kg | 0.001 | NONE | - | - | - | < 0.0010 | - |
| o-Xylene | mg/kg | 0.001 | MCERTS | - | - | - | 0.061 | - |
| 1,1,2,2-Tetrachloroethane | mg/kg | 0.001 | MCERTS | - | - | - | < 0.0010 | - |
| Isopropylbenzene | mg/kg | 0.001 | MCERTS | - | - | - | < 0.0010 | - |
| Bromobenzene | mg/kg | 0.001 | MCERTS | - | - | - | < 0.0010 | - |
| n-Propylbenzene | mg/kg | 0.001 | ISO 17025 | - | - | - | 0.043 | - |
| 2-Chlorotoluene | mg/kg | 0.001 | MCERTS | - | - | - | < 0.0010 | - |
| 4-Chlorotoluene | mg/kg | 0.001 | MCERTS | - | - | - | < 0.0010 | - |
| 1,3,5-Trimethylbenzene | mg/kg | 0.001 | ISO 17025 | - | - | - | 0.27 | - |
| tert-Butylbenzene | mg/kg | 0.001 | MCERTS | - | - | - | < 0.0010 | - |
| 1,2,4-Trimethylbenzene | mg/kg | 0.001 | ISO 17025 | - | - | - | 0.078 | - |
| sec-Butylbenzene | mg/kg | 0.001 | MCERTS | - | - | - | 0.035 | - |
| 1,3-Dichlorobenzene | mg/kg | 0.001 | ISO 17025 | - | - | - | < 0.0010 | - |
| p-Isopropyltoluene | mg/kg | 0.001 | ISO 17025 | - | - | - | 0.14 | - |
| 1,2-Dichlorobenzene | mg/kg | 0.001 | MCERTS | - | - | - | < 0.0010 | - |
| 1,4-Dichlorobenzene | mg/kg | 0.001 | MCERTS | - | - | - | < 0.0010 | - |
| Butylbenzene | mg/kg | 0.001 | MCERTS | - | - | - | < 0.0010 | - |
| 1,2-Dibromo-3-chloropropane | mg/kg | 0.001 | ISO 17025 | - | - | - | < 0.0010 | - |
| 1,2,4-Trichlorobenzene | mg/kg | 0.001 | MCERTS | - | - | - | < 0.0010 | - |
| Hexachlorobutadiene | mg/kg | 0.001 | MCERTS | - | - | - | < 0.0010 | - |
| 1,2,3-Trichlorobenzene | mg/kg | 0.001 | ISO 17025 | - | - | - | < 0.0010 | - |

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**Analytical Report Number: 21-66959**
**Project / Site name: Brockhampton West Havant**
**Your Order No: DS60240**

| Lab Sample Number | | | | 1827663 | 1827664 | 1827665 | 1827666 | 1827667 |
|---|---|---|---|---|---|---|---|---|
| Sample Reference | | | | TP103 | TP104 | TP104 | TP104 | TP106 |
| Sample Number | | | | Cap | Topsoil | Cap x2 | Waste | Cap |
| Depth (m) | | | | 1.50-1.80 | 0.00-0.15 | 0.30-0.70 | 2.00-2.50 | 0.50-0.70 |
| Date Sampled | | | | 30/03/2021 | 30/03/2021 | 30/03/2021 | 30/03/2021 | 29/03/2021 |
| Time Taken | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| **Analytical Parameter (Soil Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | | | | | |
| **SVOCs** | | | | | | | | |
| Aniline | mg/kg | 0.1 | NONE | - | - | - | < 0.1 | - |
| Phenol | mg/kg | 0.2 | ISO 17025 | - | - | - | < 0.2 | - |
| 2-Chlorophenol | mg/kg | 0.1 | MCERTS | - | - | - | < 0.1 | - |
| Bis(2-chloroethyl)ether | mg/kg | 0.2 | MCERTS | - | - | - | < 0.2 | - |
| 1,3-Dichlorobenzene | mg/kg | 0.2 | MCERTS | - | - | - | < 0.2 | - |
| 1,2-Dichlorobenzene | mg/kg | 0.1 | MCERTS | - | - | - | < 0.1 | - |
| 1,4-Dichlorobenzene | mg/kg | 0.2 | MCERTS | - | - | - | < 0.2 | - |
| Bis(2-chloroisopropyl)ether | mg/kg | 0.1 | MCERTS | - | - | - | < 0.1 | - |
| 2-Methylphenol | mg/kg | 0.3 | MCERTS | - | - | - | < 0.3 | - |
| Hexachloroethane | mg/kg | 0.05 | MCERTS | - | - | - | < 0.05 | - |
| Nitrobenzene | mg/kg | 0.3 | MCERTS | - | - | - | < 0.3 | - |
| 4-Methylphenol | mg/kg | 0.2 | NONE | - | - | - | < 0.2 | - |
| Isophorone | mg/kg | 0.2 | MCERTS | - | - | - | < 0.2 | - |
| 2-Nitrophenol | mg/kg | 0.3 | MCERTS | - | - | - | < 0.3 | - |
| 2,4-Dimethylphenol | mg/kg | 0.3 | MCERTS | - | - | - | < 0.3 | - |
| Bis(2-chloroethoxy)methane | mg/kg | 0.3 | MCERTS | - | - | - | < 0.3 | - |
| 1,2,4-Trichlorobenzene | mg/kg | 0.3 | MCERTS | - | - | - | < 0.3 | - |
| Naphthalene | mg/kg | 0.05 | MCERTS | - | - | - | 2.1 | - |
| 2,4-Dichlorophenol | mg/kg | 0.3 | MCERTS | - | - | - | < 0.3 | - |
| 4-Chloroaniline | mg/kg | 0.1 | NONE | - | - | - | < 0.1 | - |
| Hexachlorobutadiene | mg/kg | 0.1 | MCERTS | - | - | - | < 0.1 | - |
| 4-Chloro-3-methylphenol | mg/kg | 0.1 | NONE | - | - | - | < 0.1 | - |
| 2,4,6-Trichlorophenol | mg/kg | 0.1 | MCERTS | - | - | - | < 0.1 | - |
| 2,4,5-Trichlorophenol | mg/kg | 0.2 | MCERTS | - | - | - | < 0.2 | - |
| 2-Methylnaphthalene | mg/kg | 0.1 | NONE | - | - | - | 2.4 | - |
| 2-Chloronaphthalene | mg/kg | 0.1 | MCERTS | - | - | - | < 0.1 | - |
| Dimethylphthalate | mg/kg | 0.1 | MCERTS | - | - | - | < 0.1 | - |
| 2,6-Dinitrotoluene | mg/kg | 0.1 | MCERTS | - | - | - | < 0.1 | - |
| Acenaphthylene | mg/kg | 0.05 | MCERTS | - | - | - | < 0.05 | - |
| Acenaphthene | mg/kg | 0.05 | MCERTS | - | - | - | 2.2 | - |
| 2,4-Dinitrotoluene | mg/kg | 0.2 | MCERTS | - | - | - | < 0.2 | - |
| Dibenzofuran | mg/kg | 0.2 | MCERTS | - | - | - | 1.6 | - |
| 4-Chlorophenyl phenyl ether | mg/kg | 0.3 | ISO 17025 | - | - | - | < 0.3 | - |
| Diethyl phthalate | mg/kg | 0.2 | MCERTS | - | - | - | < 0.2 | - |
| 4-Nitroaniline | mg/kg | 0.2 | MCERTS | - | - | - | < 0.2 | - |
| Fluorene | mg/kg | 0.05 | MCERTS | - | - | - | 2.2 | - |
| Azobenzene | mg/kg | 0.3 | MCERTS | - | - | - | < 0.3 | - |
| Bromophenyl phenyl ether | mg/kg | 0.2 | MCERTS | - | - | - | < 0.2 | - |
| Hexachlorobenzene | mg/kg | 0.3 | MCERTS | - | - | - | < 0.3 | - |
| Phenanthrene | mg/kg | 0.05 | MCERTS | - | - | - | 5.8 | - |
| Anthracene | mg/kg | 0.05 | MCERTS | - | - | - | 1.2 | - |
| Carbazole | mg/kg | 0.3 | MCERTS | - | - | - | 0.6 | - |
| Dibutyl phthalate | mg/kg | 0.2 | MCERTS | - | - | - | < 0.2 | - |
| Anthraquinone | mg/kg | 0.3 | MCERTS | - | - | - | < 0.3 | - |
| Fluoranthene | mg/kg | 0.05 | MCERTS | - | - | - | 4.7 | - |
| Pyrene | mg/kg | 0.05 | MCERTS | - | - | - | 3.9 | - |
| Butyl benzyl phthalate | mg/kg | 0.3 | ISO 17025 | - | - | - | < 0.3 | - |
| Benzo(a)anthracene | mg/kg | 0.05 | MCERTS | - | - | - | 1.6 | - |
| Chrysene | mg/kg | 0.05 | MCERTS | - | - | - | 1.4 | - |
| Benzo(b)fluoranthene | mg/kg | 0.05 | MCERTS | - | - | - | 1.6 | - |
| Benzo(k)fluoranthene | mg/kg | 0.05 | MCERTS | - | - | - | 0.73 | - |
| Benzo(a)pyrene | mg/kg | 0.05 | MCERTS | - | - | - | 1.6 | - |

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**Analytical Report Number: 21-66959**
**Project / Site name: Brockhampton West Havant**
**Your Order No: DS60240**

| Lab Sample Number | | | | 1827663 | 1827664 | 1827665 | 1827666 | 1827667 |
|---|---|---|---|---|---|---|---|---|
| Sample Reference | | | | TP103 | TP104 | TP104 | TP104 | TP106 |
| Sample Number | | | | Cap | Topsoil | Cap x2 | Waste | Cap |
| Depth (m) | | | | 1.50-1.80 | 0.00-0.15 | 0.30-0.70 | 2.00-2.50 | 0.50-0.70 |
| Date Sampled | | | | 30/03/2021 | 30/03/2021 | 30/03/2021 | 30/03/2021 | 29/03/2021 |
| Time Taken | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| **Analytical Parameter (Soil Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | | | | | |
| Indeno(1,2,3-cd)pyrene | mg/kg | 0.05 | MCERTS | - | - | - | 0.79 | - |
| Dibenz(a,h)anthracene | mg/kg | 0.05 | MCERTS | - | - | - | 0.20 | - |
| Benzo(ghi)perylene | mg/kg | 0.05 | MCERTS | - | - | - | 0.88 | - |

U/S = Unsuitable Sample  I/S = Insufficient Sample

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**Analytical Report Number: 21-66959**
**Project / Site name: Brockhampton West Havant**
**Your Order No: DS60240**

| Lab Sample Number | | | | 1827668 | 1827669 | 1827670 | 1827672 | 1827673 |
|---|---|---|---|---|---|---|---|---|
| Sample Reference | | | | TP106 | TP107 | TP107 | TP108 | TP109 |
| Sample Number | | | | Waste | Cap | Waste | Waste | Waste |
| Depth (m) | | | | 3.00-3.50 | 0.50-1.00 | 1.70-2.30 | 2.00-2.50 | 3.50-3.90 |
| Date Sampled | | | | 29/03/2021 | 31/03/2021 | 31/03/2021 | 30/03/2021 | 01/04/2021 |
| Time Taken | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| **Analytical Parameter (Soil Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | | | | | |
| Stone Content | % | 0.1 | NONE | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Moisture Content | % | 0.01 | NONE | 18 | 19 | 21 | 20 | 25 |
| Total mass of sample received | kg | 0.001 | NONE | 0.30 | 0.50 | 1.0 | 0.70 | 0.20 |
| Asbestos in Soil Screen / Identification Name | Type | N/A | ISO 17025 | - | - | - | - | - |
| Asbestos in Soil | Type | N/A | ISO 17025 | Not-detected | Not-detected | Not-detected | Not-detected | Not-detected |

**General Inorganics**

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| pH - Automated | pH Units | N/A | MCERTS | 7.9 | 7.3 | 8.0 | 8.3 | 7.9 |
| Total Sulphate as SO4 | % | 0.005 | MCERTS | 0.180 | - | - | - | - |
| Water Soluble Sulphate as SO4 16hr extraction (2:1) | mg/kg | 2.5 | MCERTS | 1300 | 34 | - | - | 5200 |
| Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent) | g/l | 0.00125 | MCERTS | 0.64 | 0.017 | 0.14 | 0.71 | 2.6 |
| Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent) | mg/l | 1.25 | MCERTS | 640 | 17.1 | - | - | 2600 |
| Total Sulphur | % | 0.005 | MCERTS | 0.181 | - | - | - | 1.08 |
| Organic Matter | % | 0.1 | MCERTS | - | - | 1.6 | - | - |

**Phenols by GC-MS**

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Phenol | mg/kg | 0.2 | NONE | < 0.2 | < 0.2 | - | - | - |
| 2,4,5-Trichlorophenol | mg/kg | 0.2 | NONE | < 0.2 | < 0.2 | - | - | - |
| 2,4,6-Trichlorophenol | mg/kg | 0.1 | NONE | < 0.1 | < 0.1 | - | - | - |
| 2,4-Dichlorophenol | mg/kg | 0.3 | NONE | < 0.3 | < 0.3 | - | - | - |
| 2,4-Dimethylphenol | mg/kg | 0.3 | NONE | < 0.3 | < 0.3 | - | - | - |
| 2-Chlorophenol | mg/kg | 0.1 | NONE | < 0.1 | < 0.1 | - | - | - |
| 2-Methylphenol | mg/kg | 0.3 | MCERTS | < 0.3 | < 0.3 | - | - | - |
| 2-Nitrophenol | mg/kg | 0.3 | NONE | < 0.3 | < 0.3 | - | - | - |
| 4-Chloro-3-methylphenol | mg/kg | 0.1 | ISO 17025 | < 0.1 | < 0.1 | - | - | - |
| 4-Methylphenol | mg/kg | 0.2 | NONE | < 0.2 | < 0.2 | - | - | - |

**Total Phenols**

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Total Phenols (GC-MS) | mg/kg | 1 | NONE | < 1.0 | < 1.0 | - | - | - |

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**Analytical Report Number: 21-66959**
**Project / Site name: Brockhampton West Havant**
**Your Order No: DS60240**

| Lab Sample Number | | | | 1827668 | 1827669 | 1827670 | 1827672 | 1827673 |
|---|---|---|---|---|---|---|---|---|
| Sample Reference | | | | TP106 | TP107 | TP107 | TP108 | TP109 |
| Sample Number | | | | Waste | Cap | Waste | Waste | Waste |
| Depth (m) | | | | 3.00-3.50 | 0.50-1.00 | 1.70-2.30 | 2.00-2.50 | 3.50-3.90 |
| Date Sampled | | | | 29/03/2021 | 31/03/2021 | 31/03/2021 | 30/03/2021 | 01/04/2021 |
| Time Taken | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| **Analytical Parameter (Soil Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | | | | | |
| **Speciated PAHs** | | | | | | | | |
| Naphthalene | mg/kg | 0.05 | MCERTS | 0.47 | 0.66 | - | - | - |
| Acenaphthylene | mg/kg | 0.05 | MCERTS | < 0.05 | < 0.05 | - | - | - |
| Acenaphthene | mg/kg | 0.05 | MCERTS | < 0.05 | < 0.05 | - | - | - |
| Fluorene | mg/kg | 0.05 | MCERTS | < 0.05 | < 0.05 | - | - | - |
| Phenanthrene | mg/kg | 0.05 | MCERTS | 0.55 | < 0.05 | - | - | - |
| Anthracene | mg/kg | 0.05 | MCERTS | 0.15 | < 0.05 | - | - | - |
| Fluoranthene | mg/kg | 0.05 | MCERTS | 1.2 | < 0.05 | - | - | - |
| Pyrene | mg/kg | 0.05 | MCERTS | 1.2 | < 0.05 | - | - | - |
| Benzo(a)anthracene | mg/kg | 0.05 | MCERTS | 0.61 | < 0.05 | - | - | - |
| Chrysene | mg/kg | 0.05 | MCERTS | 0.66 | < 0.05 | - | - | - |
| Benzo(b)fluoranthene | mg/kg | 0.05 | MCERTS | 0.89 | < 0.05 | - | - | - |
| Benzo(k)fluoranthene | mg/kg | 0.05 | MCERTS | 0.33 | < 0.05 | - | - | - |
| Benzo(a)pyrene | mg/kg | 0.05 | MCERTS | 0.81 | < 0.05 | - | - | - |
| Indeno(1,2,3-cd)pyrene | mg/kg | 0.05 | MCERTS | 0.42 | < 0.05 | - | - | - |
| Dibenz(a,h)anthracene | mg/kg | 0.05 | MCERTS | < 0.05 | < 0.05 | - | - | - |
| Benzo(ghi)perylene | mg/kg | 0.05 | MCERTS | 0.49 | < 0.05 | - | - | - |
| **Total PAH** | | | | | | | | |
| Speciated Total EPA-16 PAHs | mg/kg | 0.8 | MCERTS | 7.73 | < 0.80 | - | - | - |
| **Heavy Metals / Metalloids** | | | | | | | | |
| Arsenic (aqua regia extractable) | mg/kg | 1 | MCERTS | 10 | 14 | 12 | 22 | 16 |
| Cadmium (aqua regia extractable) | mg/kg | 0.2 | MCERTS | 1.3 | < 0.2 | 1.2 | 35 | 16 |
| Chromium (hexavalent) | mg/kg | 1.2 | MCERTS | < 1.2 | < 1.2 | < 1.2 | < 1.2 | < 1.2 |
| Chromium (III) | mg/kg | 1 | NONE | - | - | 34 | 60 | 48 |
| Chromium (aqua regia extractable) | mg/kg | 1 | MCERTS | 26 | 36 | 34 | 61 | 49 |
| Copper (aqua regia extractable) | mg/kg | 1 | MCERTS | 58 | 35 | 47 | 1400 | 590 |
| Lead (aqua regia extractable) | mg/kg | 1 | MCERTS | 120 | 52 | 99 | 1400 | 660 |
| Mercury (aqua regia extractable) | mg/kg | 0.3 | MCERTS | < 0.3 | < 0.3 | < 0.3 | 1.7 | 0.8 |
| Nickel (aqua regia extractable) | mg/kg | 1 | MCERTS | 240 | 21 | 28 | 100 | 92 |
| Zinc (aqua regia extractable) | mg/kg | 1 | MCERTS | 410 | 73 | 190 | 4700 | 2000 |

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**Analytical Report Number: 21-66959**
**Project / Site name: Brockhampton West Havant**
**Your Order No: DS60240**

| Lab Sample Number | | | | 1827668 | 1827669 | 1827670 | 1827672 | 1827673 |
|---|---|---|---|---|---|---|---|---|
| Sample Reference | | | | TP106 | TP107 | TP107 | TP108 | TP109 |
| Sample Number | | | | Waste | Cap | Waste | Waste | Waste |
| Depth (m) | | | | 3.00-3.50 | 0.50-1.00 | 1.70-2.30 | 2.00-2.50 | 3.50-3.90 |
| Date Sampled | | | | 29/03/2021 | 31/03/2021 | 31/03/2021 | 30/03/2021 | 01/04/2021 |
| Time Taken | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| **Analytical Parameter (Soil Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | | | | | |
| **Monoaromatics & Oxygenates** | | | | | | | | |
| Benzene | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 |
| Toluene | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 |
| Ethylbenzene | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 |
| p & m-xylene | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 |
| o-xylene | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 |
| MTBE (Methyl Tertiary Butyl Ether) | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 |
| **Petroleum Hydrocarbons** | | | | | | | | |
| TPH-CWG - Aliphatic >EC5 - EC6 | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 |
| TPH-CWG - Aliphatic >EC6 - EC8 | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 |
| TPH-CWG - Aliphatic >EC8 - EC10 | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 |
| TPH-CWG - Aliphatic >EC10 - EC12 | mg/kg | 1 | MCERTS | 12 | 27 | 22 | < 1.0 | 3.5 |
| TPH-CWG - Aliphatic >EC12 - EC16 | mg/kg | 2 | MCERTS | 18 | 15 | 12 | 9.4 | 13 |
| TPH-CWG - Aliphatic >EC16 - EC21 | mg/kg | 8 | MCERTS | 34 | < 8.0 | < 8.0 | 24 | 32 |
| TPH-CWG - Aliphatic >EC21 - EC35 | mg/kg | 8 | MCERTS | 430 | < 8.0 | 40 | 300 | 280 |
| TPH-CWG - Aliphatic >EC35 - EC40 | mg/kg | 10 | NONE | 97 | < 10 | < 10 | 47 | 85 |
| TPH-CWG - Aliphatic (EC5 - EC35) | mg/kg | 10 | MCERTS | 500 | 42 | 81 | 330 | 320 |
| TPH-CWG - Aromatic >EC5 - EC7 | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 |
| TPH-CWG - Aromatic >EC7 - EC8 | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 |
| TPH-CWG - Aromatic >EC8 - EC10 | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 |
| TPH-CWG - Aromatic >EC10 - EC12 | mg/kg | 1 | MCERTS | < 1.0 | 13 | 27 | < 1.0 | 11 |
| TPH-CWG - Aromatic >EC12 - EC16 | mg/kg | 2 | MCERTS | 8.1 | 4.1 | 18 | 4.8 | 17 |
| TPH-CWG - Aromatic >EC16 - EC21 | mg/kg | 10 | MCERTS | 39 | < 10 | 18 | 20 | 56 |
| TPH-CWG - Aromatic >EC21 - EC35 | mg/kg | 10 | MCERTS | 260 | < 10 | 17 | 77 | 200 |
| TPH-CWG - Aromatic >EC35 - EC40 | mg/kg | 10 | NONE | 100 | < 10 | < 10 | 18 | 70 |
| TPH-CWG - Aromatic (EC5 - EC35) | mg/kg | 10 | MCERTS | 310 | 17 | 80 | 100 | 280 |
| TPH (C35 - C40) | mg/kg | 10 | MCERTS | 200 | < 10 | < 10 | 65 | 150 |
| **VOCs** | | | | | | | | |
| Chloromethane | mg/kg | 0.001 | ISO 17025 | - | - | < 0.0010 | < 0.0010 | < 0.0010 |
| Chloroethane | mg/kg | 0.001 | NONE | - | - | < 0.0010 | < 0.0010 | < 0.0010 |
| Bromomethane | mg/kg | 0.001 | ISO 17025 | - | - | < 0.0010 | < 0.0010 | < 0.0010 |
| Vinyl Chloride | mg/kg | 0.001 | NONE | - | - | < 0.0010 | < 0.0010 | < 0.0010 |
| Trichlorofluoromethane | mg/kg | 0.001 | NONE | - | - | < 0.0010 | < 0.0010 | < 0.0010 |
| 1,1-Dichloroethene | mg/kg | 0.001 | NONE | - | - | < 0.0010 | < 0.0010 | < 0.0010 |
| 1,1,2-Trichloro 1,2,2-Trifluoroethane | mg/kg | 0.001 | ISO 17025 | - | - | < 0.0010 | < 0.0010 | < 0.0010 |
| Cis-1,2-dichloroethene | mg/kg | 0.001 | MCERTS | - | - | < 0.0010 | < 0.0010 | < 0.0010 |
| MTBE (Methyl Tertiary Butyl Ether) | mg/kg | 0.001 | MCERTS | - | - | < 0.0010 | < 0.0010 | < 0.0010 |
| 1,1-Dichloroethane | mg/kg | 0.001 | MCERTS | - | - | < 0.0010 | < 0.0010 | < 0.0010 |
| 2,2-Dichloropropane | mg/kg | 0.001 | MCERTS | - | - | < 0.0010 | < 0.0010 | < 0.0010 |
| Trichloromethane | mg/kg | 0.001 | MCERTS | - | - | < 0.0010 | < 0.0010 | < 0.0010 |
| 1,1,1-Trichloroethane | mg/kg | 0.001 | MCERTS | - | - | < 0.0010 | < 0.0010 | < 0.0010 |
| 1,2-Dichloroethane | mg/kg | 0.001 | MCERTS | - | - | < 0.0010 | < 0.0010 | < 0.0010 |
| 1,1-Dichloropropene | mg/kg | 0.001 | MCERTS | - | - | < 0.0010 | < 0.0010 | < 0.0010 |
| Trans-1,2-dichloroethene | mg/kg | 0.001 | NONE | - | - | < 0.0010 | < 0.0010 | < 0.0010 |
| Benzene | mg/kg | 0.001 | MCERTS | - | - | < 0.0010 | < 0.0010 | < 0.0010 |
| Tetrachloromethane | mg/kg | 0.001 | MCERTS | - | - | < 0.0010 | < 0.0010 | < 0.0010 |
| 1,2-Dichloropropane | mg/kg | 0.001 | MCERTS | - | - | < 0.0010 | < 0.0010 | < 0.0010 |
| Trichloroethene | mg/kg | 0.001 | MCERTS | - | - | < 0.0010 | < 0.0010 | < 0.0010 |
| Dibromomethane | mg/kg | 0.001 | MCERTS | - | - | < 0.0010 | < 0.0010 | < 0.0010 |

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**Analytical Report Number: 21-66959**
**Project / Site name: Brockhampton West Havant**
**Your Order No: DS60240**

| Lab Sample Number | | | | 1827668 | 1827669 | 1827670 | 1827672 | 1827673 |
|---|---|---|---|---|---|---|---|---|
| **Sample Reference** | | | | TP106 | TP107 | TP107 | TP108 | TP109 |
| **Sample Number** | | | | Waste | Cap | Waste | Waste | Waste |
| **Depth (m)** | | | | 3.00-3.50 | 0.50-1.00 | 1.70-2.30 | 2.00-2.50 | 3.50-3.90 |
| **Date Sampled** | | | | 29/03/2021 | 31/03/2021 | 31/03/2021 | 30/03/2021 | 01/04/2021 |
| **Time Taken** | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| **Analytical Parameter (Soil Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | | | | | |
| Bromodichloromethane | mg/kg | 0.001 | MCERTS | - | - | < 0.0010 | < 0.0010 | < 0.0010 |
| Cis-1,3-dichloropropene | mg/kg | 0.001 | ISO 17025 | - | - | < 0.0010 | < 0.0010 | < 0.0010 |
| Trans-1,3-dichloropropene | mg/kg | 0.001 | ISO 17025 | - | - | < 0.0010 | < 0.0010 | < 0.0010 |
| Toluene | mg/kg | 0.001 | MCERTS | - | - | < 0.0010 | < 0.0010 | < 0.0010 |
| 1,1,2-Trichloroethane | mg/kg | 0.001 | MCERTS | - | - | < 0.0010 | < 0.0010 | < 0.0010 |
| 1,3-Dichloropropane | mg/kg | 0.001 | ISO 17025 | - | - | < 0.0010 | < 0.0010 | < 0.0010 |
| Dibromochloromethane | mg/kg | 0.001 | ISO 17025 | - | - | < 0.0010 | < 0.0010 | < 0.0010 |
| Tetrachloroethene | mg/kg | 0.001 | NONE | - | - | < 0.0010 | < 0.0010 | < 0.0010 |
| 1,2-Dibromoethane | mg/kg | 0.001 | ISO 17025 | - | - | < 0.0010 | < 0.0010 | < 0.0010 |
| Chlorobenzene | mg/kg | 0.001 | MCERTS | - | - | < 0.0010 | < 0.0010 | < 0.0010 |
| 1,1,1,2-Tetrachloroethane | mg/kg | 0.001 | MCERTS | - | - | < 0.0010 | < 0.0010 | < 0.0010 |
| Ethylbenzene | mg/kg | 0.001 | MCERTS | - | - | < 0.0010 | < 0.0010 | < 0.0010 |
| p & m-Xylene | mg/kg | 0.001 | MCERTS | - | - | < 0.0010 | < 0.0010 | < 0.0010 |
| Styrene | mg/kg | 0.001 | MCERTS | - | - | < 0.0010 | < 0.0010 | < 0.0010 |
| Tribromomethane | mg/kg | 0.001 | NONE | - | - | < 0.0010 | < 0.0010 | < 0.0010 |
| o-Xylene | mg/kg | 0.001 | MCERTS | - | - | < 0.0010 | < 0.0010 | < 0.0010 |
| 1,1,2,2-Tetrachloroethane | mg/kg | 0.001 | MCERTS | - | - | < 0.0010 | < 0.0010 | < 0.0010 |
| Isopropylbenzene | mg/kg | 0.001 | MCERTS | - | - | < 0.0010 | < 0.0010 | < 0.0010 |
| Bromobenzene | mg/kg | 0.001 | MCERTS | - | - | < 0.0010 | < 0.0010 | < 0.0010 |
| n-Propylbenzene | mg/kg | 0.001 | ISO 17025 | - | - | < 0.0010 | < 0.0010 | < 0.0010 |
| 2-Chlorotoluene | mg/kg | 0.001 | MCERTS | - | - | < 0.0010 | < 0.0010 | < 0.0010 |
| 4-Chlorotoluene | mg/kg | 0.001 | MCERTS | - | - | < 0.0010 | < 0.0010 | < 0.0010 |
| 1,3,5-Trimethylbenzene | mg/kg | 0.001 | ISO 17025 | - | - | < 0.0010 | < 0.0010 | < 0.0010 |
| tert-Butylbenzene | mg/kg | 0.001 | MCERTS | - | - | < 0.0010 | < 0.0010 | < 0.0010 |
| 1,2,4-Trimethylbenzene | mg/kg | 0.001 | ISO 17025 | - | - | < 0.0010 | < 0.0010 | < 0.0010 |
| sec-Butylbenzene | mg/kg | 0.001 | MCERTS | - | - | < 0.0010 | < 0.0010 | < 0.0010 |
| 1,3-Dichlorobenzene | mg/kg | 0.001 | ISO 17025 | - | - | < 0.0010 | < 0.0010 | < 0.0010 |
| p-Isopropyltoluene | mg/kg | 0.001 | ISO 17025 | - | - | < 0.0010 | < 0.0010 | < 0.0010 |
| 1,2-Dichlorobenzene | mg/kg | 0.001 | MCERTS | - | - | < 0.0010 | < 0.0010 | < 0.0010 |
| 1,4-Dichlorobenzene | mg/kg | 0.001 | MCERTS | - | - | < 0.0010 | < 0.0010 | < 0.0010 |
| Butylbenzene | mg/kg | 0.001 | MCERTS | - | - | < 0.0010 | < 0.0010 | < 0.0010 |
| 1,2-Dibromo-3-chloropropane | mg/kg | 0.001 | ISO 17025 | - | - | < 0.0010 | < 0.0010 | < 0.0010 |
| 1,2,4-Trichlorobenzene | mg/kg | 0.001 | MCERTS | - | - | < 0.0010 | < 0.0010 | < 0.0010 |
| Hexachlorobutadiene | mg/kg | 0.001 | MCERTS | - | - | < 0.0010 | < 0.0010 | < 0.0010 |
| 1,2,3-Trichlorobenzene | mg/kg | 0.001 | ISO 17025 | - | - | < 0.0010 | < 0.0010 | < 0.0010 |

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**Analytical Report Number: 21-66959**
**Project / Site name: Brockhampton West Havant**
**Your Order No: DS60240**

| Lab Sample Number | | | | 1827668 | 1827669 | 1827670 | 1827672 | 1827673 |
|---|---|---|---|---|---|---|---|---|
| Sample Reference | | | | TP106 | TP107 | TP107 | TP108 | TP109 |
| Sample Number | | | | Waste | Cap | Waste | Waste | Waste |
| Depth (m) | | | | 3.00-3.50 | 0.50-1.00 | 1.70-2.30 | 2.00-2.50 | 3.50-3.90 |
| Date Sampled | | | | 29/03/2021 | 31/03/2021 | 31/03/2021 | 30/03/2021 | 01/04/2021 |
| Time Taken | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| **Analytical Parameter (Soil Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | | | | | |
| **SVOCs** | | | | | | | | |
| Aniline | mg/kg | 0.1 | NONE | - | - | < 0.1 | < 0.1 | < 0.1 |
| Phenol | mg/kg | 0.2 | ISO 17025 | - | - | < 0.2 | < 0.2 | < 0.2 |
| 2-Chlorophenol | mg/kg | 0.1 | MCERTS | - | - | < 0.1 | < 0.1 | < 0.1 |
| Bis(2-chloroethyl)ether | mg/kg | 0.2 | MCERTS | - | - | < 0.2 | < 0.2 | < 0.2 |
| 1,3-Dichlorobenzene | mg/kg | 0.2 | MCERTS | - | - | < 0.2 | < 0.2 | < 0.2 |
| 1,2-Dichlorobenzene | mg/kg | 0.1 | MCERTS | - | - | < 0.1 | < 0.1 | < 0.1 |
| 1,4-Dichlorobenzene | mg/kg | 0.2 | MCERTS | - | - | < 0.2 | < 0.2 | < 0.2 |
| Bis(2-chloroisopropyl)ether | mg/kg | 0.1 | MCERTS | - | - | < 0.1 | < 0.1 | < 0.1 |
| 2-Methylphenol | mg/kg | 0.3 | MCERTS | - | - | < 0.3 | < 0.3 | < 0.3 |
| Hexachloroethane | mg/kg | 0.05 | MCERTS | - | - | < 0.05 | < 0.05 | < 0.05 |
| Nitrobenzene | mg/kg | 0.3 | MCERTS | - | - | < 0.3 | < 0.3 | < 0.3 |
| 4-Methylphenol | mg/kg | 0.2 | NONE | - | - | < 0.2 | < 0.2 | < 0.2 |
| Isophorone | mg/kg | 0.2 | MCERTS | - | - | < 0.2 | < 0.2 | < 0.2 |
| 2-Nitrophenol | mg/kg | 0.3 | MCERTS | - | - | < 0.3 | < 0.3 | < 0.3 |
| 2,4-Dimethylphenol | mg/kg | 0.3 | MCERTS | - | - | < 0.3 | < 0.3 | < 0.3 |
| Bis(2-chloroethoxy)methane | mg/kg | 0.3 | MCERTS | - | - | < 0.3 | < 0.3 | < 0.3 |
| 1,2,4-Trichlorobenzene | mg/kg | 0.3 | MCERTS | - | - | < 0.3 | < 0.3 | < 0.3 |
| Naphthalene | mg/kg | 0.05 | MCERTS | - | - | 0.61 | 0.75 | 1.0 |
| 2,4-Dichlorophenol | mg/kg | 0.3 | MCERTS | - | - | < 0.3 | < 0.3 | < 0.3 |
| 4-Chloroaniline | mg/kg | 0.1 | NONE | - | - | < 0.1 | < 0.1 | < 0.1 |
| Hexachlorobutadiene | mg/kg | 0.1 | MCERTS | - | - | < 0.1 | < 0.1 | < 0.1 |
| 4-Chloro-3-methylphenol | mg/kg | 0.1 | NONE | - | - | < 0.1 | < 0.1 | < 0.1 |
| 2,4,6-Trichlorophenol | mg/kg | 0.1 | MCERTS | - | - | < 0.1 | < 0.1 | < 0.1 |
| 2,4,5-Trichlorophenol | mg/kg | 0.2 | MCERTS | - | - | < 0.2 | < 0.2 | < 0.2 |
| 2-Methylnaphthalene | mg/kg | 0.1 | NONE | - | - | < 0.1 | 0.4 | 0.6 |
| 2-Chloronaphthalene | mg/kg | 0.1 | MCERTS | - | - | < 0.1 | < 0.1 | < 0.1 |
| Dimethylphthalate | mg/kg | 0.1 | MCERTS | - | - | < 0.1 | < 0.1 | < 0.1 |
| 2,6-Dinitrotoluene | mg/kg | 0.1 | MCERTS | - | - | < 0.1 | < 0.1 | < 0.1 |
| Acenaphthylene | mg/kg | 0.05 | MCERTS | - | - | < 0.05 | < 0.05 | < 0.05 |
| Acenaphthene | mg/kg | 0.05 | MCERTS | - | - | < 0.05 | 0.42 | 1.0 |
| 2,4-Dinitrotoluene | mg/kg | 0.2 | MCERTS | - | - | < 0.2 | < 0.2 | < 0.2 |
| Dibenzofuran | mg/kg | 0.2 | MCERTS | - | - | < 0.2 | < 0.2 | 0.5 |
| 4-Chlorophenyl phenyl ether | mg/kg | 0.3 | ISO 17025 | - | - | < 0.3 | < 0.3 | < 0.3 |
| Diethyl phthalate | mg/kg | 0.2 | MCERTS | - | - | < 0.2 | < 0.2 | < 0.2 |
| 4-Nitroaniline | mg/kg | 0.2 | MCERTS | - | - | < 0.2 | < 0.2 | < 0.2 |
| Fluorene | mg/kg | 0.05 | MCERTS | - | - | < 0.05 | 0.32 | 0.69 |
| Azobenzene | mg/kg | 0.3 | MCERTS | - | - | < 0.3 | < 0.3 | < 0.3 |
| Bromophenyl phenyl ether | mg/kg | 0.2 | MCERTS | - | - | < 0.2 | < 0.2 | < 0.2 |
| Hexachlorobenzene | mg/kg | 0.3 | MCERTS | - | - | < 0.3 | < 0.3 | < 0.3 |
| Phenanthrene | mg/kg | 0.05 | MCERTS | - | - | 0.56 | 1.2 | 1.2 |
| Anthracene | mg/kg | 0.05 | MCERTS | - | - | 0.13 | 0.22 | 0.23 |
| Carbazole | mg/kg | 0.3 | MCERTS | - | - | < 0.3 | < 0.3 | < 0.3 |
| Dibutyl phthalate | mg/kg | 0.2 | MCERTS | - | - | < 0.2 | < 0.2 | < 0.2 |
| Anthraquinone | mg/kg | 0.3 | MCERTS | - | - | < 0.3 | < 0.3 | < 0.3 |
| Fluoranthene | mg/kg | 0.05 | MCERTS | - | - | 0.73 | 1.1 | 1.4 |
| Pyrene | mg/kg | 0.05 | MCERTS | - | - | 0.62 | 0.92 | 1.3 |
| Butyl benzyl phthalate | mg/kg | 0.3 | ISO 17025 | - | - | < 0.3 | < 0.3 | < 0.3 |
| Benzo(a)anthracene | mg/kg | 0.05 | MCERTS | - | - | 0.34 | 0.32 | 0.60 |
| Chrysene | mg/kg | 0.05 | MCERTS | - | - | 0.29 | 0.33 | 0.71 |
| Benzo(b)fluoranthene | mg/kg | 0.05 | MCERTS | - | - | 0.29 | 0.23 | 0.65 |
| Benzo(k)fluoranthene | mg/kg | 0.05 | MCERTS | - | - | 0.16 | 0.14 | 0.27 |
| Benzo(a)pyrene | mg/kg | 0.05 | MCERTS | - | - | 0.22 | < 0.05 | 0.46 |

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**Analytical Report Number: 21-66959**
**Project / Site name: Brockhampton West Havant**
**Your Order No: DS60240**

| Lab Sample Number | | | | 1827668 | 1827669 | 1827670 | 1827672 | 1827673 |
|---|---|---|---|---|---|---|---|---|
| Sample Reference | | | | TP106 | TP107 | TP107 | TP108 | TP109 |
| Sample Number | | | | Waste | Cap | Waste | Waste | Waste |
| Depth (m) | | | | 3.00-3.50 | 0.50-1.00 | 1.70-2.30 | 2.00-2.50 | 3.50-3.90 |
| Date Sampled | | | | 29/03/2021 | 31/03/2021 | 31/03/2021 | 30/03/2021 | 01/04/2021 |
| Time Taken | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| **Analytical Parameter (Soil Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | | | | | |
| Indeno(1,2,3-cd)pyrene | mg/kg | 0.05 | MCERTS | - | - | < 0.05 | < 0.05 | 0.23 |
| Dibenz(a,h)anthracene | mg/kg | 0.05 | MCERTS | - | - | < 0.05 | < 0.05 | < 0.05 |
| Benzo(ghi)perylene | mg/kg | 0.05 | MCERTS | - | - | < 0.05 | < 0.05 | 0.29 |

U/S = Unsuitable Sample  I/S = Insufficient Sample

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**Analytical Report Number: 21-66959**
**Project / Site name: Brockhampton West Havant**
**Your Order No: DS60240**

| Lab Sample Number | | | | 1827674 | 1827675 | 1827676 | 1827677 | 1827678 |
|---|---|---|---|---|---|---|---|---|
| Sample Reference | | | | TP110 | TP111 | TP112 | TP113 | TP114 |
| Sample Number | | | | Waste | Waste | Waste | Waste | Waste |
| Depth (m) | | | | 1.50-2.00 | 2.00-2.50 | 3.50-3.70 | 3.00-3.50 | 1.00-1.50 |
| Date Sampled | | | | 31/03/2021 | 30/03/2021 | 31/03/2021 | 01/04/2021 | 30/03/2021 |
| Time Taken | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| **Analytical Parameter (Soil Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | | | | | |
| Stone Content | % | 0.1 | NONE | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Moisture Content | % | 0.01 | NONE | 23 | 14 | 19 | 17 | 22 |
| Total mass of sample received | kg | 0.001 | NONE | 0.50 | 0.30 | 1.2 | 1.2 | 0.30 |
| Asbestos in Soil Screen / Identification Name | Type | N/A | ISO 17025 | - | - | - | - | - |
| Asbestos in Soil | Type | N/A | ISO 17025 | Not-detected | Not-detected | Not-detected | Not-detected | Not-detected |

**General Inorganics**

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| pH - Automated | pH Units | N/A | MCERTS | 8.2 | 8.2 | 8.2 | 9.5 | 8.1 |
| Total Sulphate as SO4 | % | 0.005 | MCERTS | - | 0.100 | 0.146 | - | - |
| Water Soluble Sulphate as SO4 16hr extraction (2:1) | mg/kg | 2.5 | MCERTS | 750 | 460 | 800 | - | - |
| Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent) | g/l | 0.00125 | MCERTS | 0.38 | 0.23 | 0.40 | 0.56 | 0.33 |
| Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent) | mg/l | 1.25 | MCERTS | 375 | 231 | 401 | - | - |
| Total Sulphur | % | 0.005 | MCERTS | - | 0.162 | 0.152 | - | - |
| Organic Matter | % | 0.1 | MCERTS | - | - | 5.8 | - | - |

**Phenols by GC-MS**

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Phenol | mg/kg | 0.2 | NONE | - | < 0.2 | - | - | - |
| 2,4,5-Trichlorophenol | mg/kg | 0.2 | NONE | - | < 0.2 | - | - | - |
| 2,4,6-Trichlorophenol | mg/kg | 0.1 | NONE | - | < 0.1 | - | - | - |
| 2,4-Dichlorophenol | mg/kg | 0.3 | NONE | - | < 0.3 | - | - | - |
| 2,4-Dimethylphenol | mg/kg | 0.3 | NONE | - | < 0.3 | - | - | - |
| 2-Chlorophenol | mg/kg | 0.1 | NONE | - | < 0.1 | - | - | - |
| 2-Methylphenol | mg/kg | 0.3 | MCERTS | - | < 0.3 | - | - | - |
| 2-Nitrophenol | mg/kg | 0.3 | NONE | - | < 0.3 | - | - | - |
| 4-Chloro-3-methylphenol | mg/kg | 0.1 | ISO 17025 | - | < 0.1 | - | - | - |
| 4-Methylphenol | mg/kg | 0.2 | NONE | - | < 0.2 | - | - | - |

**Total Phenols**

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Total Phenols (GC-MS) | mg/kg | 1 | NONE | - | < 1.0 | - | - | - |

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**Analytical Report Number: 21-66959**
**Project / Site name: Brockhampton West Havant**
**Your Order No: DS60240**

| Lab Sample Number | | | | 1827674 | 1827675 | 1827676 | 1827677 | 1827678 |
|---|---|---|---|---|---|---|---|---|
| Sample Reference | | | | TP110 | TP111 | TP112 | TP113 | TP114 |
| Sample Number | | | | Waste | Waste | Waste | Waste | Waste |
| Depth (m) | | | | 1.50-2.00 | 2.00-2.50 | 3.50-3.70 | 3.00-3.50 | 1.00-1.50 |
| Date Sampled | | | | 31/03/2021 | 30/03/2021 | 31/03/2021 | 01/04/2021 | 30/03/2021 |
| Time Taken | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| **Analytical Parameter (Soil Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | | | | | |
| **Speciated PAHs** | | | | | | | | |
| Naphthalene | mg/kg | 0.05 | MCERTS | 5.0 | 0.63 | - | - | - |
| Acenaphthylene | mg/kg | 0.05 | MCERTS | < 0.05 | < 0.05 | - | - | - |
| Acenaphthene | mg/kg | 0.05 | MCERTS | 1.6 | 0.45 | - | - | - |
| Fluorene | mg/kg | 0.05 | MCERTS | 1.3 | 0.32 | - | - | - |
| Phenanthrene | mg/kg | 0.05 | MCERTS | 3.9 | 0.95 | - | - | - |
| Anthracene | mg/kg | 0.05 | MCERTS | 0.60 | 0.18 | - | - | - |
| Fluoranthene | mg/kg | 0.05 | MCERTS | 2.6 | 0.98 | - | - | - |
| Pyrene | mg/kg | 0.05 | MCERTS | 2.1 | 0.87 | - | - | - |
| Benzo(a)anthracene | mg/kg | 0.05 | MCERTS | 0.80 | 0.33 | - | - | - |
| Chrysene | mg/kg | 0.05 | MCERTS | 0.67 | 0.28 | - | - | - |
| Benzo(b)fluoranthene | mg/kg | 0.05 | MCERTS | 0.57 | 0.31 | - | - | - |
| Benzo(k)fluoranthene | mg/kg | 0.05 | MCERTS | 0.33 | 0.14 | - | - | - |
| Benzo(a)pyrene | mg/kg | 0.05 | MCERTS | 0.50 | 0.25 | - | - | - |
| Indeno(1,2,3-cd)pyrene | mg/kg | 0.05 | MCERTS | 0.21 | < 0.05 | - | - | - |
| Dibenz(a,h)anthracene | mg/kg | 0.05 | MCERTS | < 0.05 | < 0.05 | - | - | - |
| Benzo(ghi)perylene | mg/kg | 0.05 | MCERTS | 0.25 | < 0.05 | - | - | - |
| **Total PAH** | | | | | | | | |
| Speciated Total EPA-16 PAHs | mg/kg | 0.8 | MCERTS | 20.4 | 5.69 | - | - | - |
| **Heavy Metals / Metalloids** | | | | | | | | |
| Arsenic (aqua regia extractable) | mg/kg | 1 | MCERTS | 14 | 13 | 11 | 15 | 25 |
| Cadmium (aqua regia extractable) | mg/kg | 0.2 | MCERTS | 13 | 11 | 2.1 | 3.9 | 34 |
| Chromium (hexavalent) | mg/kg | 1.2 | MCERTS | < 1.2 | < 1.2 | < 1.2 | < 1.2 | < 1.2 |
| Chromium (III) | mg/kg | 1 | NONE | - | - | 22 | 32 | 100 |
| Chromium (aqua regia extractable) | mg/kg | 1 | MCERTS | 45 | 27 | 23 | 32 | 100 |
| Copper (aqua regia extractable) | mg/kg | 1 | MCERTS | 750 | 200 | 70 | 300 | 2400 |
| Lead (aqua regia extractable) | mg/kg | 1 | MCERTS | 460 | 450 | 160 | 570 | 1100 |
| Mercury (aqua regia extractable) | mg/kg | 0.3 | MCERTS | < 0.3 | 0.4 | < 0.3 | < 0.3 | < 0.3 |
| Nickel (aqua regia extractable) | mg/kg | 1 | MCERTS | 49 | 28 | 18 | 27 | 97 |
| Zinc (aqua regia extractable) | mg/kg | 1 | MCERTS | 2200 | 880 | 330 | 670 | 5200 |

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**Analytical Report Number: 21-66959**
**Project / Site name: Brockhampton West Havant**
**Your Order No: DS60240**

| Lab Sample Number | | | | 1827674 | 1827675 | 1827676 | 1827677 | 1827678 |
|---|---|---|---|---|---|---|---|---|
| Sample Reference | | | | TP110 | TP111 | TP112 | TP113 | TP114 |
| Sample Number | | | | Waste | Waste | Waste | Waste | Waste |
| Depth (m) | | | | 1.50-2.00 | 2.00-2.50 | 3.50-3.70 | 3.00-3.50 | 1.00-1.50 |
| Date Sampled | | | | 31/03/2021 | 30/03/2021 | 31/03/2021 | 01/04/2021 | 30/03/2021 |
| Time Taken | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| **Analytical Parameter (Soil Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | | | | | |
| **Monoaromatics & Oxygenates** | | | | | | | | |
| Benzene | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 |
| Toluene | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.030 |
| Ethylbenzene | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.016 |
| p & m-xylene | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.029 |
| o-xylene | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.028 |
| MTBE (Methyl Tertiary Butyl Ether) | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 |
| **Petroleum Hydrocarbons** | | | | | | | | |
| TPH-CWG - Aliphatic >EC5 - EC6 | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 |
| TPH-CWG - Aliphatic >EC6 - EC8 | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 |
| TPH-CWG - Aliphatic >EC8 - EC10 | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 |
| TPH-CWG - Aliphatic >EC10 - EC12 | mg/kg | 1 | MCERTS | 1.2 | < 1.0 | 3.3 | 1.9 | 1.8 |
| TPH-CWG - Aliphatic >EC12 - EC16 | mg/kg | 2 | MCERTS | 6.2 | < 2.0 | 42 | 14 | 21 |
| TPH-CWG - Aliphatic >EC16 - EC21 | mg/kg | 8 | MCERTS | 17 | < 8.0 | 91 | 27 | 43 |
| TPH-CWG - Aliphatic >EC21 - EC35 | mg/kg | 8 | MCERTS | 170 | 16 | 200 | 190 | 920 |
| TPH-CWG - Aliphatic >EC35 - EC40 | mg/kg | 10 | NONE | 61 | 10 | 88 | 50 | 210 |
| TPH-CWG - Aliphatic (EC5 - EC35) | mg/kg | 10 | MCERTS | 190 | 16 | 330 | 240 | 990 |
| TPH-CWG - Aromatic >EC5 - EC7 | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 |
| TPH-CWG - Aromatic >EC7 - EC8 | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.030 |
| TPH-CWG - Aromatic >EC8 - EC10 | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.21 |
| TPH-CWG - Aromatic >EC10 - EC12 | mg/kg | 1 | MCERTS | 7.6 | < 1.0 | 34 | 6.9 | 8.5 |
| TPH-CWG - Aromatic >EC12 - EC16 | mg/kg | 2 | MCERTS | 13 | 20 | 160 | 17 | 18 |
| TPH-CWG - Aromatic >EC16 - EC21 | mg/kg | 10 | MCERTS | 41 | 18 | 230 | 35 | 46 |
| TPH-CWG - Aromatic >EC21 - EC35 | mg/kg | 10 | MCERTS | 99 | 46 | 320 | 120 | 300 |
| TPH-CWG - Aromatic >EC35 - EC40 | mg/kg | 10 | NONE | 37 | 43 | 190 | 53 | 110 |
| TPH-CWG - Aromatic (EC5 - EC35) | mg/kg | 10 | MCERTS | 160 | 84 | 740 | 180 | 370 |
| TPH (C35 - C40) | mg/kg | 10 | MCERTS | 98 | 54 | 280 | 100 | 320 |
| **VOCs** | | | | | | | | |
| Chloromethane | mg/kg | 0.001 | ISO 17025 | - | - | < 0.0010 | < 0.0010 | < 0.0010 |
| Chloroethane | mg/kg | 0.001 | NONE | - | - | < 0.0010 | < 0.0010 | < 0.0010 |
| Bromomethane | mg/kg | 0.001 | ISO 17025 | - | - | < 0.0010 | < 0.0010 | < 0.0010 |
| Vinyl Chloride | mg/kg | 0.001 | NONE | - | - | < 0.0010 | < 0.0010 | < 0.0010 |
| Trichlorofluoromethane | mg/kg | 0.001 | NONE | - | - | < 0.0010 | < 0.0010 | < 0.0010 |
| 1,1-Dichloroethene | mg/kg | 0.001 | NONE | - | - | < 0.0010 | < 0.0010 | < 0.0010 |
| 1,1,2-Trichloro 1,2,2-Trifluoroethane | mg/kg | 0.001 | ISO 17025 | - | - | < 0.0010 | < 0.0010 | < 0.0010 |
| Cis-1,2-dichloroethene | mg/kg | 0.001 | MCERTS | - | - | < 0.0010 | < 0.0010 | < 0.0010 |
| MTBE (Methyl Tertiary Butyl Ether) | mg/kg | 0.001 | MCERTS | - | - | < 0.0010 | < 0.0010 | < 0.0010 |
| 1,1-Dichloroethane | mg/kg | 0.001 | MCERTS | - | - | < 0.0010 | < 0.0010 | < 0.0010 |
| 2,2-Dichloropropane | mg/kg | 0.001 | MCERTS | - | - | < 0.0010 | < 0.0010 | < 0.0010 |
| Trichloromethane | mg/kg | 0.001 | MCERTS | - | - | < 0.0010 | < 0.0010 | < 0.0010 |
| 1,1,1-Trichloroethane | mg/kg | 0.001 | MCERTS | - | - | < 0.0010 | < 0.0010 | < 0.0010 |
| 1,2-Dichloroethane | mg/kg | 0.001 | MCERTS | - | - | < 0.0010 | < 0.0010 | < 0.0010 |
| 1,1-Dichloropropene | mg/kg | 0.001 | MCERTS | - | - | < 0.0010 | < 0.0010 | < 0.0010 |
| Trans-1,2-dichloroethene | mg/kg | 0.001 | NONE | - | - | < 0.0010 | < 0.0010 | < 0.0010 |
| Benzene | mg/kg | 0.001 | MCERTS | - | - | < 0.0010 | < 0.0010 | < 0.0010 |
| Tetrachloromethane | mg/kg | 0.001 | MCERTS | - | - | < 0.0010 | < 0.0010 | < 0.0010 |
| 1,2-Dichloropropane | mg/kg | 0.001 | MCERTS | - | - | < 0.0010 | < 0.0010 | < 0.0010 |
| Trichloroethene | mg/kg | 0.001 | MCERTS | - | - | < 0.0010 | < 0.0010 | < 0.0010 |
| Dibromomethane | mg/kg | 0.001 | MCERTS | - | - | < 0.0010 | < 0.0010 | < 0.0010 |

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**Analytical Report Number: 21-66959**
**Project / Site name: Brockhampton West Havant**
**Your Order No: DS60240**

| Lab Sample Number | | | | 1827674 | 1827675 | 1827676 | 1827677 | 1827678 |
|---|---|---|---|---|---|---|---|---|
| Sample Reference | | | | TP110 | TP111 | TP112 | TP113 | TP114 |
| Sample Number | | | | Waste | Waste | Waste | Waste | Waste |
| Depth (m) | | | | 1.50-2.00 | 2.00-2.50 | 3.50-3.70 | 3.00-3.50 | 1.00-1.50 |
| Date Sampled | | | | 31/03/2021 | 30/03/2021 | 31/03/2021 | 01/04/2021 | 30/03/2021 |
| Time Taken | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| **Analytical Parameter (Soil Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | | | | | |
| Bromodichloromethane | mg/kg | 0.001 | MCERTS | - | - | < 0.0010 | < 0.0010 | < 0.0010 |
| Cis-1,3-dichloropropene | mg/kg | 0.001 | ISO 17025 | - | - | < 0.0010 | < 0.0010 | < 0.0010 |
| Trans-1,3-dichloropropene | mg/kg | 0.001 | ISO 17025 | - | - | < 0.0010 | < 0.0010 | < 0.0010 |
| Toluene | mg/kg | 0.001 | MCERTS | - | - | < 0.0010 | < 0.0010 | 0.030 |
| 1,1,2-Trichloroethane | mg/kg | 0.001 | MCERTS | - | - | < 0.0010 | < 0.0010 | < 0.0010 |
| 1,3-Dichloropropane | mg/kg | 0.001 | ISO 17025 | - | - | < 0.0010 | < 0.0010 | < 0.0010 |
| Dibromochloromethane | mg/kg | 0.001 | ISO 17025 | - | - | < 0.0010 | < 0.0010 | < 0.0010 |
| Tetrachloroethene | mg/kg | 0.001 | NONE | - | - | < 0.0010 | < 0.0010 | < 0.0010 |
| 1,2-Dibromoethane | mg/kg | 0.001 | ISO 17025 | - | - | < 0.0010 | < 0.0010 | < 0.0010 |
| Chlorobenzene | mg/kg | 0.001 | MCERTS | - | - | < 0.0010 | < 0.0010 | < 0.0010 |
| 1,1,1,2-Tetrachloroethane | mg/kg | 0.001 | MCERTS | - | - | < 0.0010 | < 0.0010 | < 0.0010 |
| Ethylbenzene | mg/kg | 0.001 | MCERTS | - | - | < 0.0010 | < 0.0010 | 0.016 |
| p & m-Xylene | mg/kg | 0.001 | MCERTS | - | - | < 0.0010 | < 0.0010 | 0.029 |
| Styrene | mg/kg | 0.001 | MCERTS | - | - | < 0.0010 | < 0.0010 | < 0.0010 |
| Tribromomethane | mg/kg | 0.001 | NONE | - | - | < 0.0010 | < 0.0010 | < 0.0010 |
| o-Xylene | mg/kg | 0.001 | MCERTS | - | - | < 0.0010 | < 0.0010 | 0.028 |
| 1,1,2,2-Tetrachloroethane | mg/kg | 0.001 | MCERTS | - | - | < 0.0010 | < 0.0010 | < 0.0010 |
| Isopropylbenzene | mg/kg | 0.001 | MCERTS | - | - | < 0.0010 | < 0.0010 | < 0.0010 |
| Bromobenzene | mg/kg | 0.001 | MCERTS | - | - | < 0.0010 | < 0.0010 | < 0.0010 |
| n-Propylbenzene | mg/kg | 0.001 | ISO 17025 | - | - | < 0.0010 | < 0.0010 | < 0.0010 |
| 2-Chlorotoluene | mg/kg | 0.001 | MCERTS | - | - | < 0.0010 | < 0.0010 | < 0.0010 |
| 4-Chlorotoluene | mg/kg | 0.001 | MCERTS | - | - | < 0.0010 | < 0.0010 | < 0.0010 |
| 1,3,5-Trimethylbenzene | mg/kg | 0.001 | ISO 17025 | - | - | < 0.0010 | < 0.0010 | 0.056 |
| tert-Butylbenzene | mg/kg | 0.001 | MCERTS | - | - | < 0.0010 | < 0.0010 | < 0.0010 |
| 1,2,4-Trimethylbenzene | mg/kg | 0.001 | ISO 17025 | - | - | < 0.0010 | < 0.0010 | 0.078 |
| sec-Butylbenzene | mg/kg | 0.001 | MCERTS | - | - | < 0.0010 | < 0.0010 | < 0.0010 |
| 1,3-Dichlorobenzene | mg/kg | 0.001 | ISO 17025 | - | - | < 0.0010 | < 0.0010 | < 0.0010 |
| p-Isopropyltoluene | mg/kg | 0.001 | ISO 17025 | - | - | < 0.0010 | < 0.0010 | 0.049 |
| 1,2-Dichlorobenzene | mg/kg | 0.001 | MCERTS | - | - | < 0.0010 | < 0.0010 | < 0.0010 |
| 1,4-Dichlorobenzene | mg/kg | 0.001 | MCERTS | - | - | < 0.0010 | < 0.0010 | < 0.0010 |
| Butylbenzene | mg/kg | 0.001 | MCERTS | - | - | < 0.0010 | < 0.0010 | < 0.0010 |
| 1,2-Dibromo-3-chloropropane | mg/kg | 0.001 | ISO 17025 | - | - | < 0.0010 | < 0.0010 | < 0.0010 |
| 1,2,4-Trichlorobenzene | mg/kg | 0.001 | MCERTS | - | - | < 0.0010 | < 0.0010 | < 0.0010 |
| Hexachlorobutadiene | mg/kg | 0.001 | MCERTS | - | - | < 0.0010 | < 0.0010 | < 0.0010 |
| 1,2,3-Trichlorobenzene | mg/kg | 0.001 | ISO 17025 | - | - | < 0.0010 | < 0.0010 | < 0.0010 |

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**Analytical Report Number: 21-66959**
**Project / Site name: Brockhampton West Havant**
**Your Order No: DS60240**

| Lab Sample Number | | | | 1827674 | 1827675 | 1827676 | 1827677 | 1827678 |
|---|---|---|---|---|---|---|---|---|
| Sample Reference | | | | TP110 | TP111 | TP112 | TP113 | TP114 |
| Sample Number | | | | Waste | Waste | Waste | Waste | Waste |
| Depth (m) | | | | 1.50-2.00 | 2.00-2.50 | 3.50-3.70 | 3.00-3.50 | 1.00-1.50 |
| Date Sampled | | | | 31/03/2021 | 30/03/2021 | 31/03/2021 | 01/04/2021 | 30/03/2021 |
| Time Taken | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| **Analytical Parameter (Soil Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | | | | | |
| **SVOCs** | | | | | | | | |
| Aniline | mg/kg | 0.1 | NONE | - | - | < 0.1 | < 0.1 | < 0.1 |
| Phenol | mg/kg | 0.2 | ISO 17025 | - | - | < 0.2 | < 0.2 | < 0.2 |
| 2-Chlorophenol | mg/kg | 0.1 | MCERTS | - | - | < 0.1 | < 0.1 | < 0.1 |
| Bis(2-chloroethyl)ether | mg/kg | 0.2 | MCERTS | - | - | < 0.2 | < 0.2 | < 0.2 |
| 1,3-Dichlorobenzene | mg/kg | 0.2 | MCERTS | - | - | < 0.2 | < 0.2 | < 0.2 |
| 1,2-Dichlorobenzene | mg/kg | 0.1 | MCERTS | - | - | < 0.1 | < 0.1 | < 0.1 |
| 1,4-Dichlorobenzene | mg/kg | 0.2 | MCERTS | - | - | < 0.2 | < 0.2 | < 0.2 |
| Bis(2-chloroisopropyl)ether | mg/kg | 0.1 | MCERTS | - | - | < 0.1 | < 0.1 | < 0.1 |
| 2-Methylphenol | mg/kg | 0.3 | MCERTS | - | - | < 0.3 | < 0.3 | < 0.3 |
| Hexachloroethane | mg/kg | 0.05 | MCERTS | - | - | < 0.05 | < 0.05 | < 0.05 |
| Nitrobenzene | mg/kg | 0.3 | MCERTS | - | - | < 0.3 | < 0.3 | < 0.3 |
| 4-Methylphenol | mg/kg | 0.2 | NONE | - | - | < 0.2 | < 0.2 | < 0.2 |
| Isophorone | mg/kg | 0.2 | MCERTS | - | - | < 0.2 | < 0.2 | < 0.2 |
| 2-Nitrophenol | mg/kg | 0.3 | MCERTS | - | - | < 0.3 | < 0.3 | < 0.3 |
| 2,4-Dimethylphenol | mg/kg | 0.3 | MCERTS | - | - | < 0.3 | < 0.3 | < 0.3 |
| Bis(2-chloroethoxy)methane | mg/kg | 0.3 | MCERTS | - | - | < 0.3 | < 0.3 | < 0.3 |
| 1,2,4-Trichlorobenzene | mg/kg | 0.3 | MCERTS | - | - | < 0.3 | < 0.3 | < 0.3 |
| Naphthalene | mg/kg | 0.05 | MCERTS | - | - | 10 | 2.6 | 1.3 |
| 2,4-Dichlorophenol | mg/kg | 0.3 | MCERTS | - | - | < 0.3 | < 0.3 | < 0.3 |
| 4-Chloroaniline | mg/kg | 0.1 | NONE | - | - | < 0.1 | < 0.1 | < 0.1 |
| Hexachlorobutadiene | mg/kg | 0.1 | MCERTS | - | - | < 0.1 | < 0.1 | < 0.1 |
| 4-Chloro-3-methylphenol | mg/kg | 0.1 | NONE | - | - | < 0.1 | < 0.1 | < 0.1 |
| 2,4,6-Trichlorophenol | mg/kg | 0.1 | MCERTS | - | - | < 0.1 | < 0.1 | < 0.1 |
| 2,4,5-Trichlorophenol | mg/kg | 0.2 | MCERTS | - | - | < 0.2 | < 0.2 | < 0.2 |
| 2-Methylnaphthalene | mg/kg | 0.1 | NONE | - | - | < 0.1 | < 0.1 | < 0.1 |
| 2-Chloronaphthalene | mg/kg | 0.1 | MCERTS | - | - | < 0.1 | < 0.1 | < 0.1 |
| Dimethylphthalate | mg/kg | 0.1 | MCERTS | - | - | < 0.1 | < 0.1 | < 0.1 |
| 2,6-Dinitrotoluene | mg/kg | 0.1 | MCERTS | - | - | < 0.1 | < 0.1 | < 0.1 |
| Acenaphthylene | mg/kg | 0.05 | MCERTS | - | - | 0.44 | < 0.05 | < 0.05 |
| Acenaphthene | mg/kg | 0.05 | MCERTS | - | - | 31 | 3.9 | 3.2 |
| 2,4-Dinitrotoluene | mg/kg | 0.2 | MCERTS | - | - | < 0.2 | < 0.2 | < 0.2 |
| Dibenzofuran | mg/kg | 0.2 | MCERTS | - | - | < 0.2 | < 0.2 | < 0.2 |
| 4-Chlorophenyl phenyl ether | mg/kg | 0.3 | ISO 17025 | - | - | < 0.3 | < 0.3 | < 0.3 |
| Diethyl phthalate | mg/kg | 0.2 | MCERTS | - | - | < 0.2 | < 0.2 | < 0.2 |
| 4-Nitroaniline | mg/kg | 0.2 | MCERTS | - | - | < 0.2 | < 0.2 | < 0.2 |
| Fluorene | mg/kg | 0.05 | MCERTS | - | - | 22 | 4.7 | 2.0 |
| Azobenzene | mg/kg | 0.3 | MCERTS | - | - | < 0.3 | < 0.3 | < 0.3 |
| Bromophenyl phenyl ether | mg/kg | 0.2 | MCERTS | - | - | < 0.2 | < 0.2 | < 0.2 |
| Hexachlorobenzene | mg/kg | 0.3 | MCERTS | - | - | < 0.3 | < 0.3 | < 0.3 |
| Phenanthrene | mg/kg | 0.05 | MCERTS | - | - | 55 | 6.5 | 9.7 |
| Anthracene | mg/kg | 0.05 | MCERTS | - | - | 8.8 | 1.5 | 1.7 |
| Carbazole | mg/kg | 0.3 | MCERTS | - | - | < 0.3 | < 0.3 | < 0.3 |
| Dibutyl phthalate | mg/kg | 0.2 | MCERTS | - | - | < 0.2 | < 0.2 | < 0.2 |
| Anthraquinone | mg/kg | 0.3 | MCERTS | - | - | < 0.3 | < 0.3 | < 0.3 |
| Fluoranthene | mg/kg | 0.05 | MCERTS | - | - | 34 | 6.4 | 6.7 |
| Pyrene | mg/kg | 0.05 | MCERTS | - | - | 25 | 5.3 | 5.1 |
| Butyl benzyl phthalate | mg/kg | 0.3 | ISO 17025 | - | - | < 0.3 | < 0.3 | < 0.3 |
| Benzo(a)anthracene | mg/kg | 0.05 | MCERTS | - | - | 8.9 | 2.8 | 2.1 |
| Chrysene | mg/kg | 0.05 | MCERTS | - | - | 7.8 | 2.2 | 2.2 |
| Benzo(b)fluoranthene | mg/kg | 0.05 | MCERTS | - | - | 8.8 | 3.1 | 1.9 |
| Benzo(k)fluoranthene | mg/kg | 0.05 | MCERTS | - | - | 3.3 | 1.3 | 0.86 |
| Benzo(a)pyrene | mg/kg | 0.05 | MCERTS | - | - | 6.9 | 2.7 | 1.7 |

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**Analytical Report Number: 21-66959**
**Project / Site name: Brockhampton West Havant**
**Your Order No: DS60240**

| Lab Sample Number | | | | 1827674 | 1827675 | 1827676 | 1827677 | 1827678 |
|---|---|---|---|---|---|---|---|---|
| Sample Reference | | | | TP110 | TP111 | TP112 | TP113 | TP114 |
| Sample Number | | | | Waste | Waste | Waste | Waste | Waste |
| Depth (m) | | | | 1.50-2.00 | 2.00-2.50 | 3.50-3.70 | 3.00-3.50 | 1.00-1.50 |
| Date Sampled | | | | 31/03/2021 | 30/03/2021 | 31/03/2021 | 01/04/2021 | 30/03/2021 |
| Time Taken | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| **Analytical Parameter (Soil Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | | | | | |
| Indeno(1,2,3-cd)pyrene | mg/kg | 0.05 | MCERTS | - | - | 3.6 | 1.5 | 0.93 |
| Dibenz(a,h)anthracene | mg/kg | 0.05 | MCERTS | - | - | 1.2 | 0.46 | < 0.05 |
| Benzo(ghi)perylene | mg/kg | 0.05 | MCERTS | - | - | 4.7 | 1.6 | 1.1 |

U/S = Unsuitable Sample  I/S = Insufficient Sample

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**Analytical Report Number: 21-66959**
**Project / Site name: Brockhampton West Havant**
**Your Order No: DS60240**

| Lab Sample Number | | | | 1827679 | 1827680 | 1827681 | 1827682 | 1827683 |
|---|---|---|---|---|---|---|---|---|
| Sample Reference | | | | TP115 | TP115 | TP116 | TP117 | TP117 |
| Sample Number | | | | Cap | Waste | Waste | Topsoil | Cap |
| Depth (m) | | | | 1.00-1.50 | 2.00-2.50 | 1.80-2.00 | 0.00-0.20 | 0.70-1.00 |
| Date Sampled | | | | 31/03/2021 | 31/03/2021 | 30/03/2021 | 31/03/2021 | 31/03/2021 |
| Time Taken | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| **Analytical Parameter (Soil Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | | | | | |
| Stone Content | % | 0.1 | NONE | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Moisture Content | % | 0.01 | NONE | 16 | 20 | 28 | 16 | 11 |
| Total mass of sample received | kg | 0.001 | NONE | 1.2 | 1.2 | 0.20 | 0.70 | 0.50 |
| Asbestos in Soil Screen / Identification Name | Type | N/A | ISO 17025 | - | - | Amosite- Loose Fibres | - | - |
| Asbestos in Soil | Type | N/A | ISO 17025 | Not-detected | Not-detected | Detected | Not-detected | - |

**General Inorganics**

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| pH - Automated | pH Units | N/A | MCERTS | 8.3 | 8.5 | 7.6 | 7.3 | 8.0 |
| Total Sulphate as SO4 | % | 0.005 | MCERTS | - | 0.080 | - | - | 0.131 |
| Water Soluble Sulphate as SO4 16hr extraction (2:1) | mg/kg | 2.5 | MCERTS | 500 | 360 | 2000 | 33 | 720 |
| Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent) | g/l | 0.00125 | MCERTS | 0.25 | 0.18 | 1.0 | 0.017 | 0.36 |
| Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent) | mg/l | 1.25 | MCERTS | 249 | 180 | 1020 | 16.6 | 360 |
| Total Sulphur | % | 0.005 | MCERTS | - | 0.130 | - | - | 0.062 |
| Organic Matter | % | 0.1 | MCERTS | 1.4 | - | - | 2.7 | - |

**Phenols by GC-MS**

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Phenol | mg/kg | 0.2 | NONE | - | < 0.2 | - | - | - |
| 2,4,5-Trichlorophenol | mg/kg | 0.2 | NONE | - | < 0.2 | - | - | - |
| 2,4,6-Trichlorophenol | mg/kg | 0.1 | NONE | - | < 0.1 | - | - | - |
| 2,4-Dichlorophenol | mg/kg | 0.3 | NONE | - | < 0.3 | - | - | - |
| 2,4-Dimethylphenol | mg/kg | 0.3 | NONE | - | < 0.3 | - | - | - |
| 2-Chlorophenol | mg/kg | 0.1 | NONE | - | < 0.1 | - | - | - |
| 2-Methylphenol | mg/kg | 0.3 | MCERTS | - | < 0.3 | - | - | - |
| 2-Nitrophenol | mg/kg | 0.3 | NONE | - | < 0.3 | - | - | - |
| 4-Chloro-3-methylphenol | mg/kg | 0.1 | ISO 17025 | - | < 0.1 | - | - | - |
| 4-Methylphenol | mg/kg | 0.2 | NONE | - | < 0.2 | - | - | - |

**Total Phenols**

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Total Phenols (GC-MS) | mg/kg | 1 | NONE | - | < 1.0 | - | - | - |

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**Analytical Report Number: 21-66959**
**Project / Site name: Brockhampton West Havant**
**Your Order No: DS60240**

| Lab Sample Number | | | | 1827679 | 1827680 | 1827681 | 1827682 | 1827683 |
|---|---|---|---|---|---|---|---|---|
| Sample Reference | | | | TP115 | TP115 | TP116 | TP117 | TP117 |
| Sample Number | | | | Cap | Waste | Waste | Topsoil | Cap |
| Depth (m) | | | | 1.00-1.50 | 2.00-2.50 | 1.80-2.00 | 0.00-0.20 | 0.70-1.00 |
| Date Sampled | | | | 31/03/2021 | 31/03/2021 | 30/03/2021 | 31/03/2021 | 31/03/2021 |
| Time Taken | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| **Analytical Parameter (Soil Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | | | | | |
| **Speciated PAHs** | | | | | | | | |
| Naphthalene | mg/kg | 0.05 | MCERTS | < 0.05 | < 0.05 | < 0.05 | < 0.05 | - |
| Acenaphthylene | mg/kg | 0.05 | MCERTS | < 0.05 | < 0.05 | < 0.05 | < 0.05 | - |
| Acenaphthene | mg/kg | 0.05 | MCERTS | 1.0 | 2.0 | 0.34 | < 0.05 | - |
| Fluorene | mg/kg | 0.05 | MCERTS | 1.4 | 2.3 | 0.45 | < 0.05 | - |
| Phenanthrene | mg/kg | 0.05 | MCERTS | 10 | 9.5 | 1.7 | < 0.05 | - |
| Anthracene | mg/kg | 0.05 | MCERTS | 2.1 | 2.9 | 0.51 | < 0.05 | - |
| Fluoranthene | mg/kg | 0.05 | MCERTS | 11 | 5.8 | 2.9 | < 0.05 | - |
| Pyrene | mg/kg | 0.05 | MCERTS | 9.4 | 5.3 | 2.9 | < 0.05 | - |
| Benzo(a)anthracene | mg/kg | 0.05 | MCERTS | 4.3 | 5.4 | 1.0 | < 0.05 | - |
| Chrysene | mg/kg | 0.05 | MCERTS | 3.8 | 3.8 | 1.4 | < 0.05 | - |
| Benzo(b)fluoranthene | mg/kg | 0.05 | MCERTS | 4.7 | 4.9 | 1.3 | < 0.05 | - |
| Benzo(k)fluoranthene | mg/kg | 0.05 | MCERTS | 1.7 | 2.6 | 0.71 | < 0.05 | - |
| Benzo(a)pyrene | mg/kg | 0.05 | MCERTS | 4.2 | 4.8 | 1.1 | < 0.05 | - |
| Indeno(1,2,3-cd)pyrene | mg/kg | 0.05 | MCERTS | 2.1 | 3.8 | 0.59 | < 0.05 | - |
| Dibenz(a,h)anthracene | mg/kg | 0.05 | MCERTS | 0.61 | 1.2 | < 0.05 | < 0.05 | - |
| Benzo(ghi)perylene | mg/kg | 0.05 | MCERTS | 2.8 | 5.5 | 0.77 | < 0.05 | - |

**Total PAH**

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Speciated Total EPA-16 PAHs | mg/kg | 0.8 | MCERTS | 59.6 | 59.6 | 15.7 | < 0.80 | - |

**Heavy Metals / Metalloids**

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Arsenic (aqua regia extractable) | mg/kg | 1 | MCERTS | 10 | 13 | 15 | 9.3 | - |
| Cadmium (aqua regia extractable) | mg/kg | 0.2 | MCERTS | < 0.2 | 3.0 | 14 | < 0.2 | - |
| Chromium (hexavalent) | mg/kg | 1.2 | MCERTS | < 1.2 | < 1.2 | < 1.2 | < 1.2 | - |
| Chromium (III) | mg/kg | 1 | NONE | - | - | - | - | - |
| Chromium (aqua regia extractable) | mg/kg | 1 | MCERTS | 28 | 24 | 55 | 21 | - |
| Copper (aqua regia extractable) | mg/kg | 1 | MCERTS | 27 | 98 | 420 | 28 | - |
| Lead (aqua regia extractable) | mg/kg | 1 | MCERTS | 46 | 160 | 730 | 110 | - |
| Mercury (aqua regia extractable) | mg/kg | 0.3 | MCERTS | < 0.3 | 0.5 | < 0.3 | < 0.3 | - |
| Nickel (aqua regia extractable) | mg/kg | 1 | MCERTS | 24 | 22 | 88 | 13 | - |
| Zinc (aqua regia extractable) | mg/kg | 1 | MCERTS | 84 | 560 | 1700 | 57 | - |

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**Analytical Report Number: 21-66959**
**Project / Site name: Brockhampton West Havant**
**Your Order No: DS60240**

| Lab Sample Number | | | | 1827679 | 1827680 | 1827681 | 1827682 | 1827683 |
|---|---|---|---|---|---|---|---|---|
| Sample Reference | | | | TP115 | TP115 | TP116 | TP117 | TP117 |
| Sample Number | | | | Cap | Waste | Waste | Topsoil | Cap |
| Depth (m) | | | | 1.00-1.50 | 2.00-2.50 | 1.80-2.00 | 0.00-0.20 | 0.70-1.00 |
| Date Sampled | | | | 31/03/2021 | 31/03/2021 | 30/03/2021 | 31/03/2021 | 31/03/2021 |
| Time Taken | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| **Analytical Parameter (Soil Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | | | | | |
| **Monoaromatics & Oxygenates** | | | | | | | | |
| Benzene | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | < 0.001 | < 0.001 | - |
| Toluene | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | < 0.001 | < 0.001 | - |
| Ethylbenzene | mg/kg | 0.001 | MCERTS | < 0.001 | 0.009 | < 0.001 | < 0.001 | - |
| p & m-xylene | mg/kg | 0.001 | MCERTS | < 0.001 | 0.013 | < 0.001 | < 0.001 | - |
| o-xylene | mg/kg | 0.001 | MCERTS | < 0.001 | 0.031 | < 0.001 | < 0.001 | - |
| MTBE (Methyl Tertiary Butyl Ether) | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | < 0.001 | < 0.001 | - |
| **Petroleum Hydrocarbons** | | | | | | | | |
| TPH-CWG - Aliphatic >EC5 - EC6 | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | < 0.001 | < 0.001 | - |
| TPH-CWG - Aliphatic >EC6 - EC8 | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | < 0.001 | < 0.001 | - |
| TPH-CWG - Aliphatic >EC8 - EC10 | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | < 0.001 | < 0.001 | - |
| TPH-CWG - Aliphatic >EC10 - EC12 | mg/kg | 1 | MCERTS | < 1.0 | 2.6 | 14 | < 1.0 | - |
| TPH-CWG - Aliphatic >EC12 - EC16 | mg/kg | 2 | MCERTS | < 2.0 | 13 | 33 | < 2.0 | - |
| TPH-CWG - Aliphatic >EC16 - EC21 | mg/kg | 8 | MCERTS | < 8.0 | 21 | 54 | < 8.0 | - |
| TPH-CWG - Aliphatic >EC21 - EC35 | mg/kg | 8 | MCERTS | < 8.0 | 170 | 860 | < 8.0 | - |
| TPH-CWG - Aliphatic >EC35 - EC40 | mg/kg | 10 | NONE | < 10 | 35 | 430 | < 10 | - |
| TPH-CWG - Aliphatic (EC5 - EC35) | mg/kg | 10 | MCERTS | < 10 | 200 | 960 | < 10 | - |
| TPH-CWG - Aromatic >EC5 - EC7 | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | < 0.001 | < 0.001 | - |
| TPH-CWG - Aromatic >EC7 - EC8 | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | < 0.001 | < 0.001 | - |
| TPH-CWG - Aromatic >EC8 - EC10 | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | < 0.001 | < 0.001 | - |
| TPH-CWG - Aromatic >EC10 - EC12 | mg/kg | 1 | MCERTS | < 1.0 | 5.2 | < 1.0 | < 1.0 | - |
| TPH-CWG - Aromatic >EC12 - EC16 | mg/kg | 2 | MCERTS | 19 | 19 | 13 | < 2.0 | - |
| TPH-CWG - Aromatic >EC16 - EC21 | mg/kg | 10 | MCERTS | 32 | 48 | 45 | < 10 | - |
| TPH-CWG - Aromatic >EC21 - EC35 | mg/kg | 10 | MCERTS | 52 | 130 | 390 | < 10 | - |
| TPH-CWG - Aromatic >EC35 - EC40 | mg/kg | 10 | NONE | 18 | 30 | 250 | < 10 | - |
| TPH-CWG - Aromatic (EC5 - EC35) | mg/kg | 10 | MCERTS | 100 | 210 | 440 | < 10 | - |
| TPH (C35 - C40) | mg/kg | 10 | MCERTS | 18 | 64 | 670 | < 10 | - |
| **VOCs** | | | | | | | | |
| Chloromethane | mg/kg | 0.001 | ISO 17025 | - | - | - | - | - |
| Chloroethane | mg/kg | 0.001 | NONE | - | - | - | - | - |
| Bromomethane | mg/kg | 0.001 | ISO 17025 | - | - | - | - | - |
| Vinyl Chloride | mg/kg | 0.001 | NONE | - | - | - | - | - |
| Trichlorofluoromethane | mg/kg | 0.001 | NONE | - | - | - | - | - |
| 1,1-Dichloroethene | mg/kg | 0.001 | NONE | - | - | - | - | - |
| 1,1,2-Trichloro 1,2,2-Trifluoroethane | mg/kg | 0.001 | ISO 17025 | - | - | - | - | - |
| Cis-1,2-dichloroethene | mg/kg | 0.001 | MCERTS | - | - | - | - | - |
| MTBE (Methyl Tertiary Butyl Ether) | mg/kg | 0.001 | MCERTS | - | - | - | - | - |
| 1,1-Dichloroethane | mg/kg | 0.001 | MCERTS | - | - | - | - | - |
| 2,2-Dichloropropane | mg/kg | 0.001 | MCERTS | - | - | - | - | - |
| Trichloromethane | mg/kg | 0.001 | MCERTS | - | - | - | - | - |
| 1,1,1-Trichloroethane | mg/kg | 0.001 | MCERTS | - | - | - | - | - |
| 1,2-Dichloroethane | mg/kg | 0.001 | MCERTS | - | - | - | - | - |
| 1,1-Dichloropropene | mg/kg | 0.001 | MCERTS | - | - | - | - | - |
| Trans-1,2-dichloroethene | mg/kg | 0.001 | NONE | - | - | - | - | - |
| Benzene | mg/kg | 0.001 | MCERTS | - | - | - | - | - |
| Tetrachloromethane | mg/kg | 0.001 | MCERTS | - | - | - | - | - |
| 1,2-Dichloropropane | mg/kg | 0.001 | MCERTS | - | - | - | - | - |
| Trichloroethene | mg/kg | 0.001 | MCERTS | - | - | - | - | - |
| Dibromomethane | mg/kg | 0.001 | MCERTS | - | - | - | - | - |

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**Analytical Report Number: 21-66959**
**Project / Site name: Brockhampton West Havant**
**Your Order No: DS60240**

| **Lab Sample Number** | | | | 1827679 | 1827680 | 1827681 | 1827682 | 1827683 |
|---|---|---|---|---|---|---|---|---|
| **Sample Reference** | | | | TP115 | TP115 | TP116 | TP117 | TP117 |
| **Sample Number** | | | | Cap | Waste | Waste | Topsoil | Cap |
| **Depth (m)** | | | | 1.00-1.50 | 2.00-2.50 | 1.80-2.00 | 0.00-0.20 | 0.70-1.00 |
| **Date Sampled** | | | | 31/03/2021 | 31/03/2021 | 30/03/2021 | 31/03/2021 | 31/03/2021 |
| **Time Taken** | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| **Analytical Parameter (Soil Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | | | | | |
| Bromodichloromethane | mg/kg | 0.001 | MCERTS | - | - | - | - | - |
| Cis-1,3-dichloropropene | mg/kg | 0.001 | ISO 17025 | - | - | - | - | - |
| Trans-1,3-dichloropropene | mg/kg | 0.001 | ISO 17025 | - | - | - | - | - |
| Toluene | mg/kg | 0.001 | MCERTS | - | - | - | - | - |
| 1,1,2-Trichloroethane | mg/kg | 0.001 | MCERTS | - | - | - | - | - |
| 1,3-Dichloropropane | mg/kg | 0.001 | ISO 17025 | - | - | - | - | - |
| Dibromochloromethane | mg/kg | 0.001 | ISO 17025 | - | - | - | - | - |
| Tetrachloroethene | mg/kg | 0.001 | NONE | - | - | - | - | - |
| 1,2-Dibromoethane | mg/kg | 0.001 | ISO 17025 | - | - | - | - | - |
| Chlorobenzene | mg/kg | 0.001 | MCERTS | - | - | - | - | - |
| 1,1,1,2-Tetrachloroethane | mg/kg | 0.001 | MCERTS | - | - | - | - | - |
| Ethylbenzene | mg/kg | 0.001 | MCERTS | - | - | - | - | - |
| p & m-Xylene | mg/kg | 0.001 | MCERTS | - | - | - | - | - |
| Styrene | mg/kg | 0.001 | MCERTS | - | - | - | - | - |
| Tribromomethane | mg/kg | 0.001 | NONE | - | - | - | - | - |
| o-Xylene | mg/kg | 0.001 | MCERTS | - | - | - | - | - |
| 1,1,2,2-Tetrachloroethane | mg/kg | 0.001 | MCERTS | - | - | - | - | - |
| Isopropylbenzene | mg/kg | 0.001 | MCERTS | - | - | - | - | - |
| Bromobenzene | mg/kg | 0.001 | MCERTS | - | - | - | - | - |
| n-Propylbenzene | mg/kg | 0.001 | ISO 17025 | - | - | - | - | - |
| 2-Chlorotoluene | mg/kg | 0.001 | MCERTS | - | - | - | - | - |
| 4-Chlorotoluene | mg/kg | 0.001 | MCERTS | - | - | - | - | - |
| 1,3,5-Trimethylbenzene | mg/kg | 0.001 | ISO 17025 | - | - | - | - | - |
| tert-Butylbenzene | mg/kg | 0.001 | MCERTS | - | - | - | - | - |
| 1,2,4-Trimethylbenzene | mg/kg | 0.001 | ISO 17025 | - | - | - | - | - |
| sec-Butylbenzene | mg/kg | 0.001 | MCERTS | - | - | - | - | - |
| 1,3-Dichlorobenzene | mg/kg | 0.001 | ISO 17025 | - | - | - | - | - |
| p-Isopropyltoluene | mg/kg | 0.001 | ISO 17025 | - | - | - | - | - |
| 1,2-Dichlorobenzene | mg/kg | 0.001 | MCERTS | - | - | - | - | - |
| 1,4-Dichlorobenzene | mg/kg | 0.001 | MCERTS | - | - | - | - | - |
| Butylbenzene | mg/kg | 0.001 | MCERTS | - | - | - | - | - |
| 1,2-Dibromo-3-chloropropane | mg/kg | 0.001 | ISO 17025 | - | - | - | - | - |
| 1,2,4-Trichlorobenzene | mg/kg | 0.001 | MCERTS | - | - | - | - | - |
| Hexachlorobutadiene | mg/kg | 0.001 | MCERTS | - | - | - | - | - |
| 1,2,3-Trichlorobenzene | mg/kg | 0.001 | ISO 17025 | - | - | - | - | - |

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**Analytical Report Number: 21-66959**
**Project / Site name: Brockhampton West Havant**
**Your Order No: DS60240**

| Lab Sample Number | | | | 1827679 | 1827680 | 1827681 | 1827682 | 1827683 |
|---|---|---|---|---|---|---|---|---|
| Sample Reference | | | | TP115 | TP115 | TP116 | TP117 | TP117 |
| Sample Number | | | | Cap | Waste | Waste | Topsoil | Cap |
| Depth (m) | | | | 1.00-1.50 | 2.00-2.50 | 1.80-2.00 | 0.00-0.20 | 0.70-1.00 |
| Date Sampled | | | | 31/03/2021 | 31/03/2021 | 30/03/2021 | 31/03/2021 | 31/03/2021 |
| Time Taken | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| **Analytical Parameter (Soil Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | | | | | |
| **SVOCs** | | | | | | | | |
| Aniline | mg/kg | 0.1 | NONE | - | - | - | - | - |
| Phenol | mg/kg | 0.2 | ISO 17025 | - | - | - | - | - |
| 2-Chlorophenol | mg/kg | 0.1 | MCERTS | - | - | - | - | - |
| Bis(2-chloroethyl)ether | mg/kg | 0.2 | MCERTS | - | - | - | - | - |
| 1,3-Dichlorobenzene | mg/kg | 0.2 | MCERTS | - | - | - | - | - |
| 1,2-Dichlorobenzene | mg/kg | 0.1 | MCERTS | - | - | - | - | - |
| 1,4-Dichlorobenzene | mg/kg | 0.2 | MCERTS | - | - | - | - | - |
| Bis(2-chloroisopropyl)ether | mg/kg | 0.1 | MCERTS | - | - | - | - | - |
| 2-Methylphenol | mg/kg | 0.3 | MCERTS | - | - | - | - | - |
| Hexachloroethane | mg/kg | 0.05 | MCERTS | - | - | - | - | - |
| Nitrobenzene | mg/kg | 0.3 | MCERTS | - | - | - | - | - |
| 4-Methylphenol | mg/kg | 0.2 | NONE | - | - | - | - | - |
| Isophorone | mg/kg | 0.2 | MCERTS | - | - | - | - | - |
| 2-Nitrophenol | mg/kg | 0.3 | MCERTS | - | - | - | - | - |
| 2,4-Dimethylphenol | mg/kg | 0.3 | MCERTS | - | - | - | - | - |
| Bis(2-chloroethoxy)methane | mg/kg | 0.3 | MCERTS | - | - | - | - | - |
| 1,2,4-Trichlorobenzene | mg/kg | 0.3 | MCERTS | - | - | - | - | - |
| Naphthalene | mg/kg | 0.05 | MCERTS | - | - | - | - | - |
| 2,4-Dichlorophenol | mg/kg | 0.3 | MCERTS | - | - | - | - | - |
| 4-Chloroaniline | mg/kg | 0.1 | NONE | - | - | - | - | - |
| Hexachlorobutadiene | mg/kg | 0.1 | MCERTS | - | - | - | - | - |
| 4-Chloro-3-methylphenol | mg/kg | 0.1 | NONE | - | - | - | - | - |
| 2,4,6-Trichlorophenol | mg/kg | 0.1 | MCERTS | - | - | - | - | - |
| 2,4,5-Trichlorophenol | mg/kg | 0.2 | MCERTS | - | - | - | - | - |
| 2-Methylnaphthalene | mg/kg | 0.1 | NONE | - | - | - | - | - |
| 2-Chloronaphthalene | mg/kg | 0.1 | MCERTS | - | - | - | - | - |
| Dimethylphthalate | mg/kg | 0.1 | MCERTS | - | - | - | - | - |
| 2,6-Dinitrotoluene | mg/kg | 0.1 | MCERTS | - | - | - | - | - |
| Acenaphthylene | mg/kg | 0.05 | MCERTS | - | - | - | - | - |
| Acenaphthene | mg/kg | 0.05 | MCERTS | - | - | - | - | - |
| 2,4-Dinitrotoluene | mg/kg | 0.2 | MCERTS | - | - | - | - | - |
| Dibenzofuran | mg/kg | 0.2 | MCERTS | - | - | - | - | - |
| 4-Chlorophenyl phenyl ether | mg/kg | 0.3 | ISO 17025 | - | - | - | - | - |
| Diethyl phthalate | mg/kg | 0.2 | MCERTS | - | - | - | - | - |
| 4-Nitroaniline | mg/kg | 0.2 | MCERTS | - | - | - | - | - |
| Fluorene | mg/kg | 0.05 | MCERTS | - | - | - | - | - |
| Azobenzene | mg/kg | 0.3 | MCERTS | - | - | - | - | - |
| Bromophenyl phenyl ether | mg/kg | 0.2 | MCERTS | - | - | - | - | - |
| Hexachlorobenzene | mg/kg | 0.3 | MCERTS | - | - | - | - | - |
| Phenanthrene | mg/kg | 0.05 | MCERTS | - | - | - | - | - |
| Anthracene | mg/kg | 0.05 | MCERTS | - | - | - | - | - |
| Carbazole | mg/kg | 0.3 | MCERTS | - | - | - | - | - |
| Dibutyl phthalate | mg/kg | 0.2 | MCERTS | - | - | - | - | - |
| Anthraquinone | mg/kg | 0.3 | MCERTS | - | - | - | - | - |
| Fluoranthene | mg/kg | 0.05 | MCERTS | - | - | - | - | - |
| Pyrene | mg/kg | 0.05 | MCERTS | - | - | - | - | - |
| Butyl benzyl phthalate | mg/kg | 0.3 | ISO 17025 | - | - | - | - | - |
| Benzo(a)anthracene | mg/kg | 0.05 | MCERTS | - | - | - | - | - |
| Chrysene | mg/kg | 0.05 | MCERTS | - | - | - | - | - |
| Benzo(b)fluoranthene | mg/kg | 0.05 | MCERTS | - | - | - | - | - |
| Benzo(k)fluoranthene | mg/kg | 0.05 | MCERTS | - | - | - | - | - |
| Benzo(a)pyrene | mg/kg | 0.05 | MCERTS | - | - | - | - | - |

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**Analytical Report Number: 21-66959**
**Project / Site name: Brockhampton West Havant**
**Your Order No: DS60240**

| Lab Sample Number | | | | 1827679 | 1827680 | 1827681 | 1827682 | 1827683 |
|---|---|---|---|---|---|---|---|---|
| Sample Reference | | | | TP115 | TP115 | TP116 | TP117 | TP117 |
| Sample Number | | | | Cap | Waste | Waste | Topsoil | Cap |
| Depth (m) | | | | 1.00-1.50 | 2.00-2.50 | 1.80-2.00 | 0.00-0.20 | 0.70-1.00 |
| Date Sampled | | | | 31/03/2021 | 31/03/2021 | 30/03/2021 | 31/03/2021 | 31/03/2021 |
| Time Taken | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| **Analytical Parameter (Soil Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | | | | | |
| Indeno(1,2,3-cd)pyrene | mg/kg | 0.05 | MCERTS | - | - | - | - | - |
| Dibenz(a,h)anthracene | mg/kg | 0.05 | MCERTS | - | - | - | - | - |
| Benzo(ghi)perylene | mg/kg | 0.05 | MCERTS | - | - | - | - | - |

U/S = Unsuitable Sample  I/S = Insufficient Sample

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**Analytical Report Number: 21-66959**
**Project / Site name: Brockhampton West Havant**
**Your Order No: DS60240**

| Lab Sample Number | | | | 1827685 | 1827686 | 1827687 | 1827688 | 1828062 |
|---|---|---|---|---|---|---|---|---|
| Sample Reference | | | | TP118 | TP119 | TP119 | TP120 | TP120 |
| Sample Number | | | | Waste | Cap x2 | Waste | Waste | Cap x2 |
| Depth (m) | | | | 2.00-2.50 | 0.30-0.60 | 1.00-1.50 | 1.50-2.00 | 0.30-0.60 |
| Date Sampled | | | | 01/04/2021 | 01/04/2021 | 01/04/2021 | 01/04/2021 | 01/04/2021 |
| Time Taken | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| **Analytical Parameter (Soil Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | | | | | |
| Stone Content | % | 0.1 | NONE | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Moisture Content | % | 0.01 | NONE | 17 | 17 | 64 | 16 | 8.8 |
| Total mass of sample received | kg | 0.001 | NONE | 0.50 | 1.2 | 1.2 | 2.0 | 1.2 |
| Asbestos in Soil Screen / Identification Name | Type | N/A | ISO 17025 | - | - | - | - | - |
| Asbestos in Soil | Type | N/A | ISO 17025 | Not-detected | Not-detected | - | - | Not-detected |

**General Inorganics**

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| pH - Automated | pH Units | N/A | MCERTS | 7.6 | 8.5 | - | 8.2 | 8.1 |
| Total Sulphate as SO4 | % | 0.005 | MCERTS | - | - | - | 0.250 | - |
| Water Soluble Sulphate as SO4 16hr extraction (2:1) | mg/kg | 2.5 | MCERTS | 1200 | 44 | - | 1200 | 29 |
| Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent) | g/l | 0.00125 | MCERTS | 0.58 | 0.022 | - | 0.62 | 0.015 |
| Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent) | mg/l | 1.25 | MCERTS | 581 | 21.9 | - | 625 | 14.5 |
| Total Sulphur | % | 0.005 | MCERTS | - | - | - | 0.297 | - |
| Organic Matter | % | 0.1 | MCERTS | - | - | - | - | 2.0 |

**Phenols by GC-MS**

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Phenol | mg/kg | 0.2 | NONE | - | - | < 0.2 | - | - |
| 2,4,5-Trichlorophenol | mg/kg | 0.2 | NONE | - | - | < 0.2 | - | - |
| 2,4,6-Trichlorophenol | mg/kg | 0.1 | NONE | - | - | < 0.1 | - | - |
| 2,4-Dichlorophenol | mg/kg | 0.3 | NONE | - | - | < 0.3 | - | - |
| 2,4-Dimethylphenol | mg/kg | 0.3 | NONE | - | - | < 0.3 | - | - |
| 2-Chlorophenol | mg/kg | 0.1 | NONE | - | - | < 0.1 | - | - |
| 2-Methylphenol | mg/kg | 0.3 | MCERTS | - | - | < 0.3 | - | - |
| 2-Nitrophenol | mg/kg | 0.3 | NONE | - | - | < 0.3 | - | - |
| 4-Chloro-3-methylphenol | mg/kg | 0.1 | ISO 17025 | - | - | < 0.1 | - | - |
| 4-Methylphenol | mg/kg | 0.2 | NONE | - | - | < 0.2 | - | - |

**Total Phenols**

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Total Phenols (GC-MS) | mg/kg | 1 | NONE | - | - | < 1.0 | - | - |

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**Analytical Report Number: 21-66959**
**Project / Site name: Brockhampton West Havant**
**Your Order No: DS60240**

| Lab Sample Number | | | | 1827685 | 1827686 | 1827687 | 1827688 | 1828062 |
|---|---|---|---|---|---|---|---|---|
| Sample Reference | | | | TP118 | TP119 | TP119 | TP120 | TP120 |
| Sample Number | | | | Waste | Cap x2 | Waste | Waste | Cap x2 |
| Depth (m) | | | | 2.00-2.50 | 0.30-0.60 | 1.00-1.50 | 1.50-2.00 | 0.30-0.60 |
| Date Sampled | | | | 01/04/2021 | 01/04/2021 | 01/04/2021 | 01/04/2021 | 01/04/2021 |
| Time Taken | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| **Analytical Parameter (Soil Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | | | | | |
| **Speciated PAHs** | | | | | | | | |
| Naphthalene | mg/kg | 0.05 | MCERTS | 2.2 | < 0.05 | - | - | < 0.05 |
| Acenaphthylene | mg/kg | 0.05 | MCERTS | < 0.05 | < 0.05 | - | - | < 0.05 |
| Acenaphthene | mg/kg | 0.05 | MCERTS | 5.2 | < 0.05 | - | - | < 0.05 |
| Fluorene | mg/kg | 0.05 | MCERTS | 4.9 | < 0.05 | - | - | < 0.05 |
| Phenanthrene | mg/kg | 0.05 | MCERTS | 16 | < 0.05 | - | - | < 0.05 |
| Anthracene | mg/kg | 0.05 | MCERTS | 2.3 | < 0.05 | - | - | < 0.05 |
| Fluoranthene | mg/kg | 0.05 | MCERTS | 19 | < 0.05 | - | - | < 0.05 |
| Pyrene | mg/kg | 0.05 | MCERTS | 15 | < 0.05 | - | - | < 0.05 |
| Benzo(a)anthracene | mg/kg | 0.05 | MCERTS | 4.8 | < 0.05 | - | - | < 0.05 |
| Chrysene | mg/kg | 0.05 | MCERTS | 4.1 | < 0.05 | - | - | < 0.05 |
| Benzo(b)fluoranthene | mg/kg | 0.05 | MCERTS | 4.3 | < 0.05 | - | - | < 0.05 |
| Benzo(k)fluoranthene | mg/kg | 0.05 | MCERTS | 2.4 | < 0.05 | - | - | < 0.05 |
| Benzo(a)pyrene | mg/kg | 0.05 | MCERTS | 4.2 | < 0.05 | - | - | < 0.05 |
| Indeno(1,2,3-cd)pyrene | mg/kg | 0.05 | MCERTS | 1.1 | < 0.05 | - | - | < 0.05 |
| Dibenz(a,h)anthracene | mg/kg | 0.05 | MCERTS | 0.38 | < 0.05 | - | - | < 0.05 |
| Benzo(ghi)perylene | mg/kg | 0.05 | MCERTS | 1.2 | < 0.05 | - | - | < 0.05 |
| **Total PAH** | | | | | | | | |
| Speciated Total EPA-16 PAHs | mg/kg | 0.8 | MCERTS | 87.5 | < 0.80 | - | - | < 0.80 |
| **Heavy Metals / Metalloids** | | | | | | | | |
| Arsenic (aqua regia extractable) | mg/kg | 1 | MCERTS | 14 | 7.3 | - | - | 7.1 |
| Cadmium (aqua regia extractable) | mg/kg | 0.2 | MCERTS | 6.7 | 0.8 | - | - | < 0.2 |
| Chromium (hexavalent) | mg/kg | 1.2 | MCERTS | < 1.2 | < 1.2 | - | - | < 1.2 |
| Chromium (III) | mg/kg | 1 | NONE | - | - | - | - | - |
| Chromium (aqua regia extractable) | mg/kg | 1 | MCERTS | 36 | 17 | - | - | 10 |
| Copper (aqua regia extractable) | mg/kg | 1 | MCERTS | 300 | 26 | - | - | 14 |
| Lead (aqua regia extractable) | mg/kg | 1 | MCERTS | 380 | 28 | - | - | 16 |
| Mercury (aqua regia extractable) | mg/kg | 0.3 | MCERTS | 0.4 | < 0.3 | - | - | < 0.3 |
| Nickel (aqua regia extractable) | mg/kg | 1 | MCERTS | 27 | 14 | - | - | 5.8 |
| Zinc (aqua regia extractable) | mg/kg | 1 | MCERTS | 710 | 85 | - | - | 23 |

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**Analytical Report Number: 21-66959**
**Project / Site name: Brockhampton West Havant**
**Your Order No: DS60240**

| Lab Sample Number | | | | 1827685 | 1827686 | 1827687 | 1827688 | 1828062 |
|---|---|---|---|---|---|---|---|---|
| Sample Reference | | | | TP118 | TP119 | TP119 | TP120 | TP120 |
| Sample Number | | | | Waste | Cap x2 | Waste | Waste | Cap x2 |
| Depth (m) | | | | 2.00-2.50 | 0.30-0.60 | 1.00-1.50 | 1.50-2.00 | 0.30-0.60 |
| Date Sampled | | | | 01/04/2021 | 01/04/2021 | 01/04/2021 | 01/04/2021 | 01/04/2021 |
| Time Taken | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| **Analytical Parameter (Soil Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | | | | | |
| **Monoaromatics & Oxygenates** | | | | | | | | |
| Benzene | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | - | - | < 0.001 |
| Toluene | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | - | - | < 0.001 |
| Ethylbenzene | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | - | - | < 0.001 |
| p & m-xylene | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | - | - | < 0.001 |
| o-xylene | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | - | - | < 0.001 |
| MTBE (Methyl Tertiary Butyl Ether) | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | - | - | < 0.001 |
| **Petroleum Hydrocarbons** | | | | | | | | |
| TPH-CWG - Aliphatic >EC5 - EC6 | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | - | - | < 0.001 |
| TPH-CWG - Aliphatic >EC6 - EC8 | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | - | - | < 0.001 |
| TPH-CWG - Aliphatic >EC8 - EC10 | mg/kg | 0.001 | MCERTS | 0.028 | < 0.001 | - | - | < 0.001 |
| TPH-CWG - Aliphatic >EC10 - EC12 | mg/kg | 1 | MCERTS | 6.0 | 6.1 | - | - | < 1.0 |
| TPH-CWG - Aliphatic >EC12 - EC16 | mg/kg | 2 | MCERTS | 64 | 5.5 | - | - | < 2.0 |
| TPH-CWG - Aliphatic >EC16 - EC21 | mg/kg | 8 | MCERTS | 100 | < 8.0 | - | - | < 8.0 |
| TPH-CWG - Aliphatic >EC21 - EC35 | mg/kg | 8 | MCERTS | 110 | < 8.0 | - | - | < 8.0 |
| TPH-CWG - Aliphatic >EC35 - EC40 | mg/kg | 10 | NONE | 45 | < 10 | - | - | < 10 |
| TPH-CWG - Aliphatic (EC5 - EC35) | mg/kg | 10 | MCERTS | 290 | 12 | - | - | < 10 |
| TPH-CWG - Aromatic >EC5 - EC7 | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | - | - | < 0.001 |
| TPH-CWG - Aromatic >EC7 - EC8 | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | - | - | < 0.001 |
| TPH-CWG - Aromatic >EC8 - EC10 | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | - | - | < 0.001 |
| TPH-CWG - Aromatic >EC10 - EC12 | mg/kg | 1 | MCERTS | 10 | < 1.0 | - | - | < 1.0 |
| TPH-CWG - Aromatic >EC12 - EC16 | mg/kg | 2 | MCERTS | 44 | < 2.0 | - | - | < 2.0 |
| TPH-CWG - Aromatic >EC16 - EC21 | mg/kg | 10 | MCERTS | 92 | < 10 | - | - | < 10 |
| TPH-CWG - Aromatic >EC21 - EC35 | mg/kg | 10 | MCERTS | 90 | < 10 | - | - | < 10 |
| TPH-CWG - Aromatic >EC35 - EC40 | mg/kg | 10 | NONE | 69 | < 10 | - | - | < 10 |
| TPH-CWG - Aromatic (EC5 - EC35) | mg/kg | 10 | MCERTS | 240 | < 10 | - | - | < 10 |
| TPH (C35 - C40) | mg/kg | 10 | MCERTS | 110 | < 10 | - | - | < 10 |
| **VOCs** | | | | | | | | |
| Chloromethane | mg/kg | 0.001 | ISO 17025 | - | - | - | - | - |
| Chloroethane | mg/kg | 0.001 | NONE | - | - | - | - | - |
| Bromomethane | mg/kg | 0.001 | ISO 17025 | - | - | - | - | - |
| Vinyl Chloride | mg/kg | 0.001 | NONE | - | - | - | - | - |
| Trichlorofluoromethane | mg/kg | 0.001 | NONE | - | - | - | - | - |
| 1,1-Dichloroethene | mg/kg | 0.001 | NONE | - | - | - | - | - |
| 1,1,2-Trichloro 1,2,2-Trifluoroethane | mg/kg | 0.001 | ISO 17025 | - | - | - | - | - |
| Cis-1,2-dichloroethene | mg/kg | 0.001 | MCERTS | - | - | - | - | - |
| MTBE (Methyl Tertiary Butyl Ether) | mg/kg | 0.001 | MCERTS | - | - | - | - | - |
| 1,1-Dichloroethane | mg/kg | 0.001 | MCERTS | - | - | - | - | - |
| 2,2-Dichloropropane | mg/kg | 0.001 | MCERTS | - | - | - | - | - |
| Trichloromethane | mg/kg | 0.001 | MCERTS | - | - | - | - | - |
| 1,1,1-Trichloroethane | mg/kg | 0.001 | MCERTS | - | - | - | - | - |
| 1,2-Dichloroethane | mg/kg | 0.001 | MCERTS | - | - | - | - | - |
| 1,1-Dichloropropene | mg/kg | 0.001 | MCERTS | - | - | - | - | - |
| Trans-1,2-dichloroethene | mg/kg | 0.001 | NONE | - | - | - | - | - |
| Benzene | mg/kg | 0.001 | MCERTS | - | - | - | - | - |
| Tetrachloromethane | mg/kg | 0.001 | MCERTS | - | - | - | - | - |
| 1,2-Dichloropropane | mg/kg | 0.001 | MCERTS | - | - | - | - | - |
| Trichloroethene | mg/kg | 0.001 | MCERTS | - | - | - | - | - |
| Dibromomethane | mg/kg | 0.001 | MCERTS | - | - | - | - | - |

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**Analytical Report Number: 21-66959**
**Project / Site name: Brockhampton West Havant**
**Your Order No: DS60240**

| **Lab Sample Number** | | | | 1827685 | 1827686 | 1827687 | 1827688 | 1828062 |
|---|---|---|---|---|---|---|---|---|
| **Sample Reference** | | | | TP118 | TP119 | TP119 | TP120 | TP120 |
| **Sample Number** | | | | Waste | Cap x2 | Waste | Waste | Cap x2 |
| **Depth (m)** | | | | 2.00-2.50 | 0.30-0.60 | 1.00-1.50 | 1.50-2.00 | 0.30-0.60 |
| **Date Sampled** | | | | 01/04/2021 | 01/04/2021 | 01/04/2021 | 01/04/2021 | 01/04/2021 |
| **Time Taken** | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| **Analytical Parameter (Soil Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | | | | | |
| Bromodichloromethane | mg/kg | 0.001 | MCERTS | - | - | - | - | - |
| Cis-1,3-dichloropropene | mg/kg | 0.001 | ISO 17025 | - | - | - | - | - |
| Trans-1,3-dichloropropene | mg/kg | 0.001 | ISO 17025 | - | - | - | - | - |
| Toluene | mg/kg | 0.001 | MCERTS | - | - | - | - | - |
| 1,1,2-Trichloroethane | mg/kg | 0.001 | MCERTS | - | - | - | - | - |
| 1,3-Dichloropropane | mg/kg | 0.001 | ISO 17025 | - | - | - | - | - |
| Dibromochloromethane | mg/kg | 0.001 | ISO 17025 | - | - | - | - | - |
| Tetrachloroethene | mg/kg | 0.001 | NONE | - | - | - | - | - |
| 1,2-Dibromoethane | mg/kg | 0.001 | ISO 17025 | - | - | - | - | - |
| Chlorobenzene | mg/kg | 0.001 | MCERTS | - | - | - | - | - |
| 1,1,1,2-Tetrachloroethane | mg/kg | 0.001 | MCERTS | - | - | - | - | - |
| Ethylbenzene | mg/kg | 0.001 | MCERTS | - | - | - | - | - |
| p & m-Xylene | mg/kg | 0.001 | MCERTS | - | - | - | - | - |
| Styrene | mg/kg | 0.001 | MCERTS | - | - | - | - | - |
| Tribromomethane | mg/kg | 0.001 | NONE | - | - | - | - | - |
| o-Xylene | mg/kg | 0.001 | MCERTS | - | - | - | - | - |
| 1,1,2,2-Tetrachloroethane | mg/kg | 0.001 | MCERTS | - | - | - | - | - |
| Isopropylbenzene | mg/kg | 0.001 | MCERTS | - | - | - | - | - |
| Bromobenzene | mg/kg | 0.001 | MCERTS | - | - | - | - | - |
| n-Propylbenzene | mg/kg | 0.001 | ISO 17025 | - | - | - | - | - |
| 2-Chlorotoluene | mg/kg | 0.001 | MCERTS | - | - | - | - | - |
| 4-Chlorotoluene | mg/kg | 0.001 | MCERTS | - | - | - | - | - |
| 1,3,5-Trimethylbenzene | mg/kg | 0.001 | ISO 17025 | - | - | - | - | - |
| tert-Butylbenzene | mg/kg | 0.001 | MCERTS | - | - | - | - | - |
| 1,2,4-Trimethylbenzene | mg/kg | 0.001 | ISO 17025 | - | - | - | - | - |
| sec-Butylbenzene | mg/kg | 0.001 | MCERTS | - | - | - | - | - |
| 1,3-Dichlorobenzene | mg/kg | 0.001 | ISO 17025 | - | - | - | - | - |
| p-Isopropyltoluene | mg/kg | 0.001 | ISO 17025 | - | - | - | - | - |
| 1,2-Dichlorobenzene | mg/kg | 0.001 | MCERTS | - | - | - | - | - |
| 1,4-Dichlorobenzene | mg/kg | 0.001 | MCERTS | - | - | - | - | - |
| Butylbenzene | mg/kg | 0.001 | MCERTS | - | - | - | - | - |
| 1,2-Dibromo-3-chloropropane | mg/kg | 0.001 | ISO 17025 | - | - | - | - | - |
| 1,2,4-Trichlorobenzene | mg/kg | 0.001 | MCERTS | - | - | - | - | - |
| Hexachlorobutadiene | mg/kg | 0.001 | MCERTS | - | - | - | - | - |
| 1,2,3-Trichlorobenzene | mg/kg | 0.001 | ISO 17025 | - | - | - | - | - |

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The results included within the report relate only to the sample(s) submitted for testing.

**Analytical Report Number: 21-66959**
**Project / Site name: Brockhampton West Havant**
**Your Order No: DS60240**

| Lab Sample Number | | | | 1827685 | 1827686 | 1827687 | 1827688 | 1828062 |
|---|---|---|---|---|---|---|---|---|
| Sample Reference | | | | TP118 | TP119 | TP119 | TP120 | TP120 |
| Sample Number | | | | Waste | Cap x2 | Waste | Waste | Cap x2 |
| Depth (m) | | | | 2.00-2.50 | 0.30-0.60 | 1.00-1.50 | 1.50-2.00 | 0.30-0.60 |
| Date Sampled | | | | 01/04/2021 | 01/04/2021 | 01/04/2021 | 01/04/2021 | 01/04/2021 |
| Time Taken | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| **Analytical Parameter (Soil Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | | | | | |
| **SVOCs** | | | | | | | | |
| Aniline | mg/kg | 0.1 | NONE | - | - | - | - | - |
| Phenol | mg/kg | 0.2 | ISO 17025 | - | - | - | - | - |
| 2-Chlorophenol | mg/kg | 0.1 | MCERTS | - | - | - | - | - |
| Bis(2-chloroethyl)ether | mg/kg | 0.2 | MCERTS | - | - | - | - | - |
| 1,3-Dichlorobenzene | mg/kg | 0.2 | MCERTS | - | - | - | - | - |
| 1,2-Dichlorobenzene | mg/kg | 0.1 | MCERTS | - | - | - | - | - |
| 1,4-Dichlorobenzene | mg/kg | 0.2 | MCERTS | - | - | - | - | - |
| Bis(2-chloroisopropyl)ether | mg/kg | 0.1 | MCERTS | - | - | - | - | - |
| 2-Methylphenol | mg/kg | 0.3 | MCERTS | - | - | - | - | - |
| Hexachloroethane | mg/kg | 0.05 | MCERTS | - | - | - | - | - |
| Nitrobenzene | mg/kg | 0.3 | MCERTS | - | - | - | - | - |
| 4-Methylphenol | mg/kg | 0.2 | NONE | - | - | - | - | - |
| Isophorone | mg/kg | 0.2 | MCERTS | - | - | - | - | - |
| 2-Nitrophenol | mg/kg | 0.3 | MCERTS | - | - | - | - | - |
| 2,4-Dimethylphenol | mg/kg | 0.3 | MCERTS | - | - | - | - | - |
| Bis(2-chloroethoxy)methane | mg/kg | 0.3 | MCERTS | - | - | - | - | - |
| 1,2,4-Trichlorobenzene | mg/kg | 0.3 | MCERTS | - | - | - | - | - |
| Naphthalene | mg/kg | 0.05 | MCERTS | - | - | - | - | - |
| 2,4-Dichlorophenol | mg/kg | 0.3 | MCERTS | - | - | - | - | - |
| 4-Chloroaniline | mg/kg | 0.1 | NONE | - | - | - | - | - |
| Hexachlorobutadiene | mg/kg | 0.1 | MCERTS | - | - | - | - | - |
| 4-Chloro-3-methylphenol | mg/kg | 0.1 | NONE | - | - | - | - | - |
| 2,4,6-Trichlorophenol | mg/kg | 0.1 | MCERTS | - | - | - | - | - |
| 2,4,5-Trichlorophenol | mg/kg | 0.2 | MCERTS | - | - | - | - | - |
| 2-Methylnaphthalene | mg/kg | 0.1 | NONE | - | - | - | - | - |
| 2-Chloronaphthalene | mg/kg | 0.1 | MCERTS | - | - | - | - | - |
| Dimethylphthalate | mg/kg | 0.1 | MCERTS | - | - | - | - | - |
| 2,6-Dinitrotoluene | mg/kg | 0.1 | MCERTS | - | - | - | - | - |
| Acenaphthylene | mg/kg | 0.05 | MCERTS | - | - | - | - | - |
| Acenaphthene | mg/kg | 0.05 | MCERTS | - | - | - | - | - |
| 2,4-Dinitrotoluene | mg/kg | 0.2 | MCERTS | - | - | - | - | - |
| Dibenzofuran | mg/kg | 0.2 | MCERTS | - | - | - | - | - |
| 4-Chlorophenyl phenyl ether | mg/kg | 0.3 | ISO 17025 | - | - | - | - | - |
| Diethyl phthalate | mg/kg | 0.2 | MCERTS | - | - | - | - | - |
| 4-Nitroaniline | mg/kg | 0.2 | MCERTS | - | - | - | - | - |
| Fluorene | mg/kg | 0.05 | MCERTS | - | - | - | - | - |
| Azobenzene | mg/kg | 0.3 | MCERTS | - | - | - | - | - |
| Bromophenyl phenyl ether | mg/kg | 0.2 | MCERTS | - | - | - | - | - |
| Hexachlorobenzene | mg/kg | 0.3 | MCERTS | - | - | - | - | - |
| Phenanthrene | mg/kg | 0.05 | MCERTS | - | - | - | - | - |
| Anthracene | mg/kg | 0.05 | MCERTS | - | - | - | - | - |
| Carbazole | mg/kg | 0.3 | MCERTS | - | - | - | - | - |
| Dibutyl phthalate | mg/kg | 0.2 | MCERTS | - | - | - | - | - |
| Anthraquinone | mg/kg | 0.3 | MCERTS | - | - | - | - | - |
| Fluoranthene | mg/kg | 0.05 | MCERTS | - | - | - | - | - |
| Pyrene | mg/kg | 0.05 | MCERTS | - | - | - | - | - |
| Butyl benzyl phthalate | mg/kg | 0.3 | ISO 17025 | - | - | - | - | - |
| Benzo(a)anthracene | mg/kg | 0.05 | MCERTS | - | - | - | - | - |
| Chrysene | mg/kg | 0.05 | MCERTS | - | - | - | - | - |
| Benzo(b)fluoranthene | mg/kg | 0.05 | MCERTS | - | - | - | - | - |
| Benzo(k)fluoranthene | mg/kg | 0.05 | MCERTS | - | - | - | - | - |
| Benzo(a)pyrene | mg/kg | 0.05 | MCERTS | - | - | - | - | - |

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**Analytical Report Number: 21-66959**
**Project / Site name: Brockhampton West Havant**
**Your Order No: DS60240**

| Lab Sample Number | | | | 1827685 | 1827686 | 1827687 | 1827688 | 1828062 |
|---|---|---|---|---|---|---|---|---|
| Sample Reference | | | | TP118 | TP119 | TP119 | TP120 | TP120 |
| Sample Number | | | | Waste | Cap x2 | Waste | Waste | Cap x2 |
| Depth (m) | | | | 2.00-2.50 | 0.30-0.60 | 1.00-1.50 | 1.50-2.00 | 0.30-0.60 |
| Date Sampled | | | | 01/04/2021 | 01/04/2021 | 01/04/2021 | 01/04/2021 | 01/04/2021 |
| Time Taken | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| **Analytical Parameter (Soil Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | | | | | |
| Indeno(1,2,3-cd)pyrene | mg/kg | 0.05 | MCERTS | - | - | - | - | - |
| Dibenz(a,h)anthracene | mg/kg | 0.05 | MCERTS | - | - | - | - | - |
| Benzo(ghi)perylene | mg/kg | 0.05 | MCERTS | - | - | - | - | - |

U/S = Unsuitable Sample  I/S = Insufficient Sample

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**Analytical Report Number : 21-66959**
**Project / Site name: Brockhampton West Havant**

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

| Lab Sample Number | Sample Reference | Sample Number | Depth (m) | Sample Description * |
|---|---|---|---|---|
| 1827658 | TP101 | Topsoil | 0.10-0.30 | Brown clay and loam with gravel and vegetation. |
| 1827659 | TP101 | Cap | 0.50-0.90 | Brown clay and loam with gravel. |
| 1827660 | TP101 | Waste | 2.50-3.00 | Brown clay and loam with gravel and glass. |
| 1827661 | TP102 | Cap | 0.80-1.20 | Beige loam and clay with gravel. |
| 1827662 | TP102 | Landfill | 1.70-2.00 | Brown loam and clay with gravel. |
| 1827663 | TP103 | Cap | 1.50-1.80 | Brown clay and sand with gravel. |
| 1827664 | TP104 | Topsoil | 0.00-0.15 | Brown loam and clay with gravel and vegetation. |
| 1827665 | TP104 | Cap x2 | 0.30-0.70 | Brown clay and sand with gravel. |
| 1827666 | TP104 | Waste | 2.00-2.50 | Brown loam and clay with gravel and vegetation. |
| 1827667 | TP106 | Cap | 0.50-0.70 | Brown clay and sand with gravel and vegetation. |
| 1827668 | TP106 | Waste | 3.00-3.50 | Brown loam and clay with gravel and glass. |
| 1827669 | TP107 | Cap | 0.50-1.00 | Brown clay and sand with gravel and vegetation. |
| 1827670 | TP107 | Waste | 1.70-2.30 | Brown clay and sand with gravel. |
| 1827672 | TP108 | Waste | 2.00-2.50 | Brown loam and clay with gravel and vegetation. |
| 1827673 | TP109 | Waste | 3.50-3.90 | Brown loam and clay with gravel and vegetation. |
| 1827674 | TP110 | Waste | 1.50-2.00 | Brown loam and clay with gravel and vegetation. |
| 1827675 | TP111 | Waste | 2.00-2.50 | Brown loam and clay with gravel. |
| 1827676 | TP112 | Waste | 3.50-3.70 | Brown clay and loam with gravel. |
| 1827677 | TP113 | Waste | 3.00-3.50 | Brown loam and clay with gravel. |
| 1827678 | TP114 | Waste | 1.00-1.50 | Brown loam and clay with gravel and vegetation. |
| 1827679 | TP115 | Cap | 1.00-1.50 | Brown clay and sand with gravel. |
| 1827680 | TP115 | Waste | 2.00-2.50 | Brown loam and clay with gravel and vegetation. |
| 1827681 | TP116 | Waste | 1.80-2.00 | Brown loam and clay with gravel and vegetation. |
| 1827682 | TP117 | Topsoil | 0.00-0.20 | Brown loam and sand with gravel and vegetation. |
| 1827683 | TP117 | Cap | 0.70-1.00 | Brown loam and clay with gravel and vegetation. |
| 1827685 | TP118 | Waste | 2.00-2.50 | Brown loam and clay with gravel and vegetation. |
| 1827686 | TP119 | Cap x2 | 0.30-0.60 | Brown loam and clay with gravel and chalk. |
| 1827687 | TP119 | Waste | 1.00-1.50 | Brown loam and clay with rubble and vegetation. |
| 1827688 | TP120 | Waste | 1.50-2.00 | Brown loam and clay with gravel and vegetation. |
| 1828062 | TP120 | Cap x2 | 0.30-0.60 | Light brown sand with gravel. |

**Analytical Report Number : 21-66959**
**Project / Site name: Brockhampton West Havant**

**Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)**

| Analytical Test Name | Analytical Method Description | Analytical Method Reference | Method number | Wet / Dry Analysis | Accreditation Status |
|---|---|---|---|---|---|
| Sulphate, water soluble, in soil (16hr extraction) | Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent). | In house method. | L038-PL | D | MCERTS |
| Metals in soil by ICP-OES | Determination of metals in soil by aqua-regia digestion followed by ICP-OES. | In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil. | L038-PL | D | MCERTS |
| Phenols, speciated, in soil, by GCMS | Determination of speciated phenols in soil by extraction in dichloromethane and hexane followed by GC-MS. | In-house method based on USEPA 8270 | L064-PL | D | NONE |
| Asbestos identification in soil | Asbestos Identification with the use of polarised light microscopy in conjunction with disperion staining techniques. | In house method based on HSG 248 | A001-PL | D | ISO 17025 |
| Hexavalent chromium in soil (Lower Level) | Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry. | In-house method | L080-PL | W | MCERTS |
| Moisture Content | Moisture content, determined gravimetrically. (30 oC) | In house method. | L019-UK/PL | W | NONE |
| Organic matter (Automated) in soil | Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate. | In house method. | L009-PL | D | MCERTS |
| Speciated EPA-16 PAHs in soil | Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards. | In-house method based on USEPA 8270 | L064-PL | D | MCERTS |
| pH in soil (automated) | Determination of pH in soil by addition of water followed by automated electrometric measurement. | In house method. | L099-PL | D | MCERTS |
| Stones content of soil | Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight. | In-house method based on British Standard Methods and MCERTS requirements. | L019-UK/PL | D | NONE |
| Semi-volatile organic compounds in soil | Determination of semi-volatile organic compounds in soil by extraction in dichloromethane and hexane followed by GC-MS. | In-house method based on USEPA 8270 | L064-PL | D | MCERTS |
| TPH Chromatogram in Soil | TPH Chromatogram in Soil. | In-house method | L064-PL | D | NONE |
| TPH in (Soil) | Determination of TPH bands by HS-GC-MS/GC-FID | In-house method, TPH with carbon banding and silica gel split/cleanup. | L076-PL | D | NONE |
| Cr (III) in soil | In-house method by calculation from total Cr and Cr VI. | In-house method by calculation | L080-PL | W | NONE |
| TPHCWG (Soil) | Determination of hexane extractable hydrocarbons in soil by GC-MS/GC-FID. | In-house method with silica gel split/clean up. | L088/76-PL | W | MCERTS |
| Volatile organic compounds in soil | Determination of volatile organic compounds in soil by headspace GC-MS. | In-house method based on USEPA8260 | L073B-PL | W | MCERTS |
| Total Sulphate in soil as % | Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES. | In house method. | L038-PL | D | MCERTS |

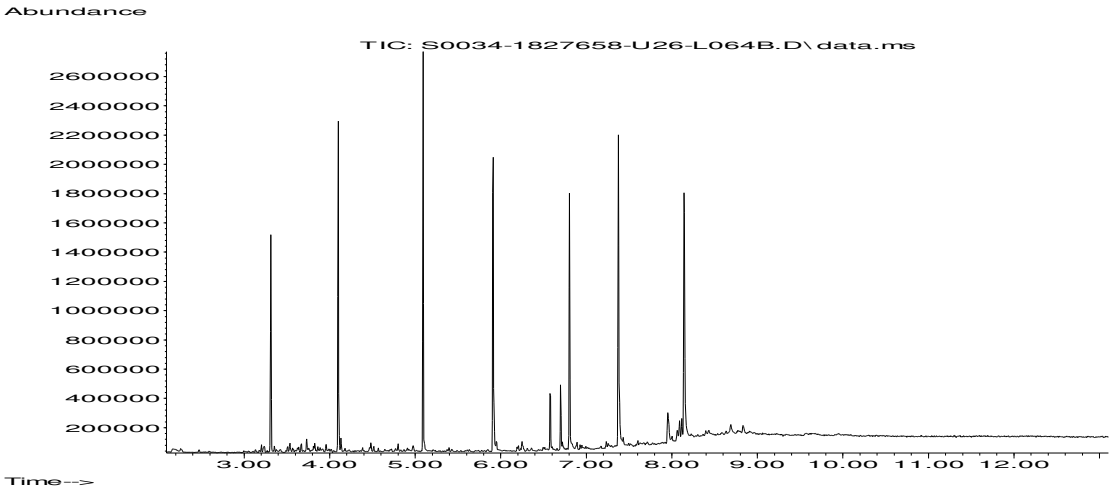
**Analytical Report Number : 21-66959**
**Project / Site name: Brockhampton West Havant**

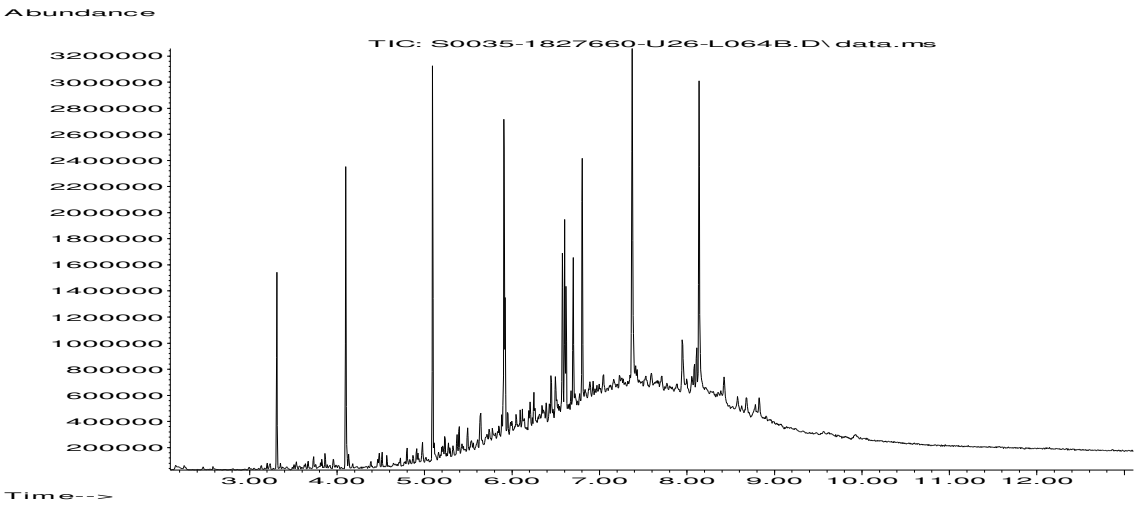
**Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)**

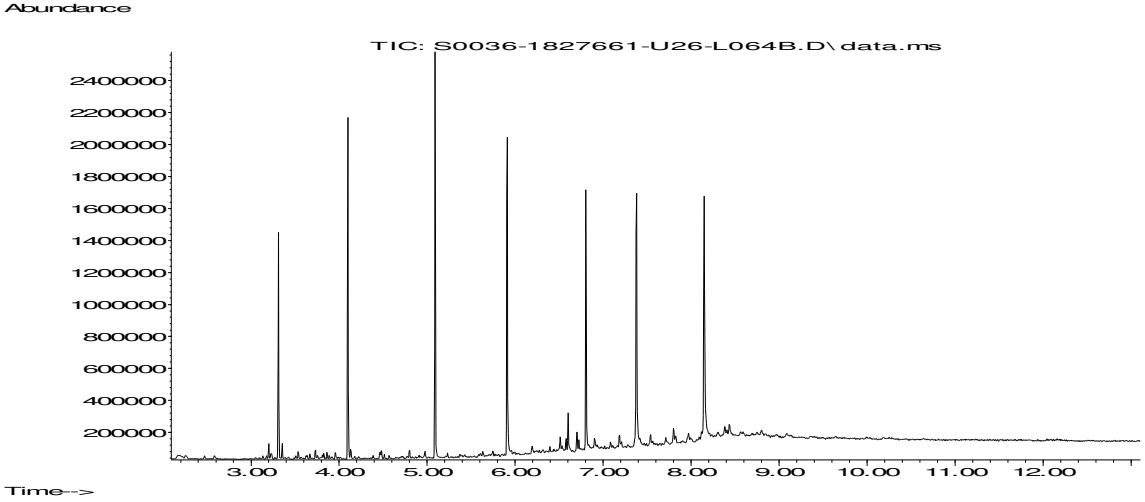
| Analytical Test Name | Analytical Method Description | Analytical Method Reference | Method number | Wet / Dry Analysis | Accreditation Status |
|---|---|---|---|---|---|
| Total Sulphur in soil as % | Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES. | In house method. | L038-PL | D | MCERTS |
| BTEX and MTBE in soil (Monoaromatics) | Determination of BTEX in soil by headspace GC-MS. | In-house method based on USEPA8260 | L073B-PL | W | MCERTS |
| Sulphate, water soluble, in soil | Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent). | In house method. | L038-PL | D | MCERTS |

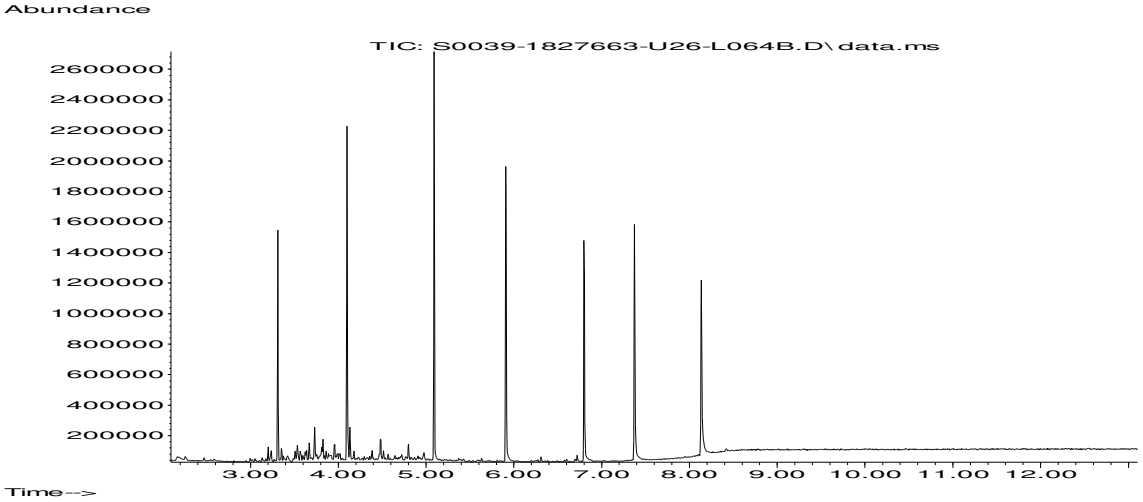
**For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.**
**For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.**
**Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.**

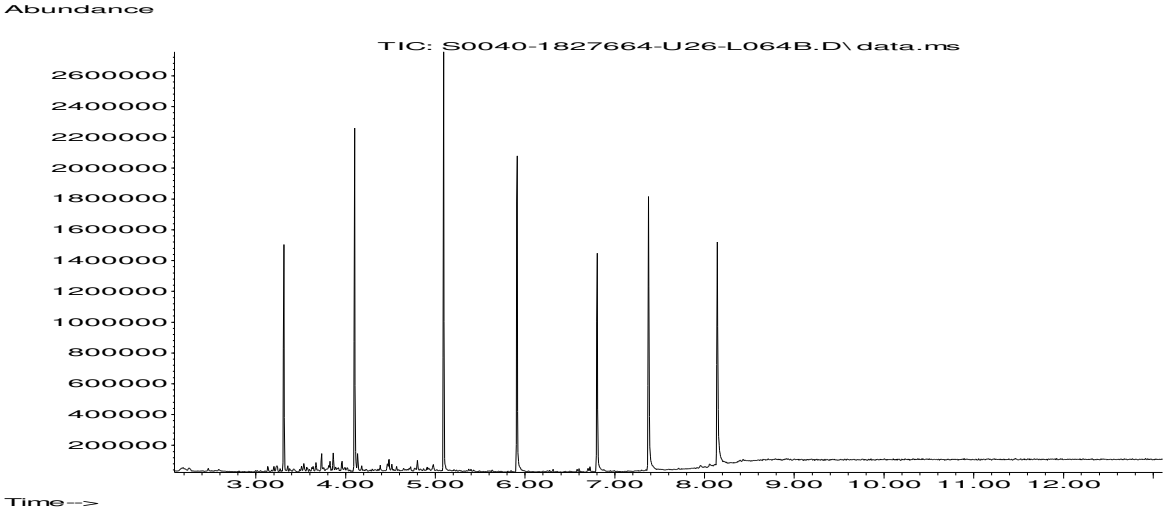
**Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.**

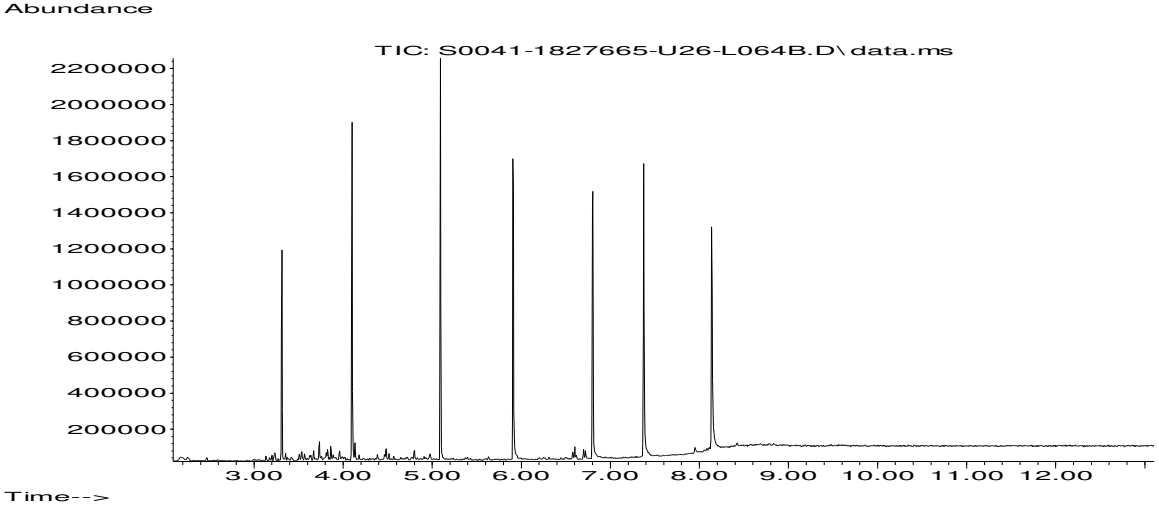

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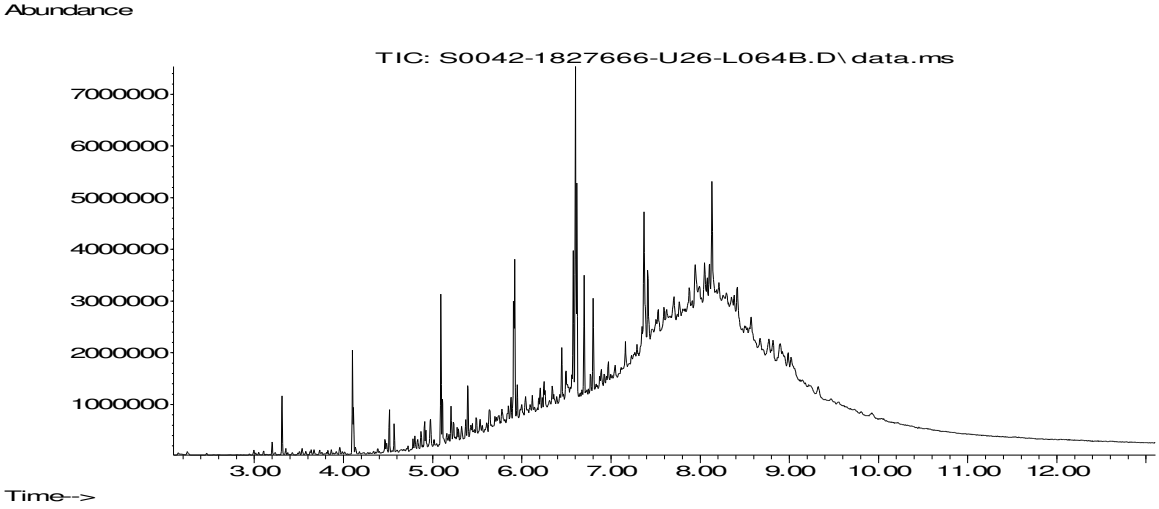

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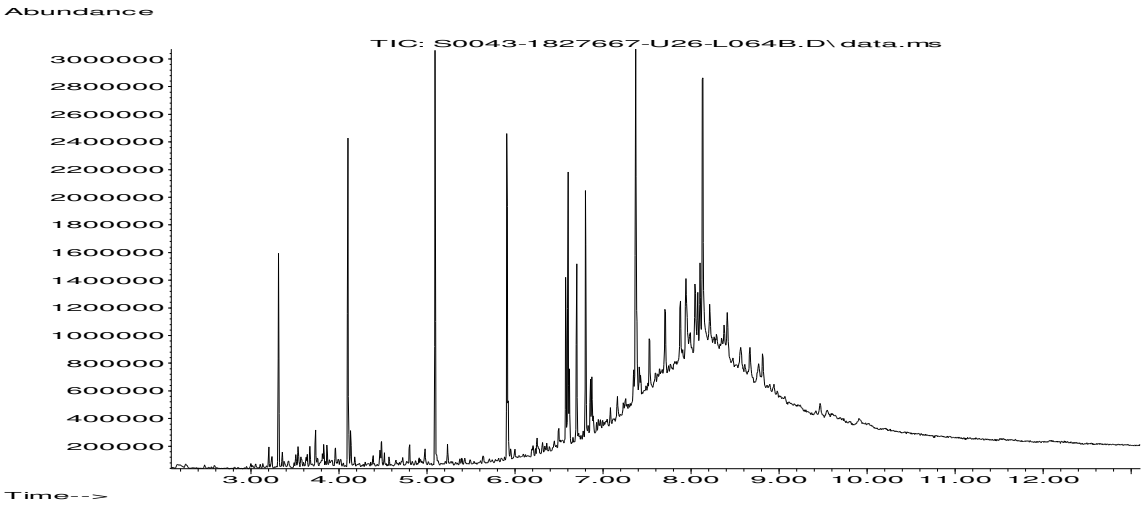

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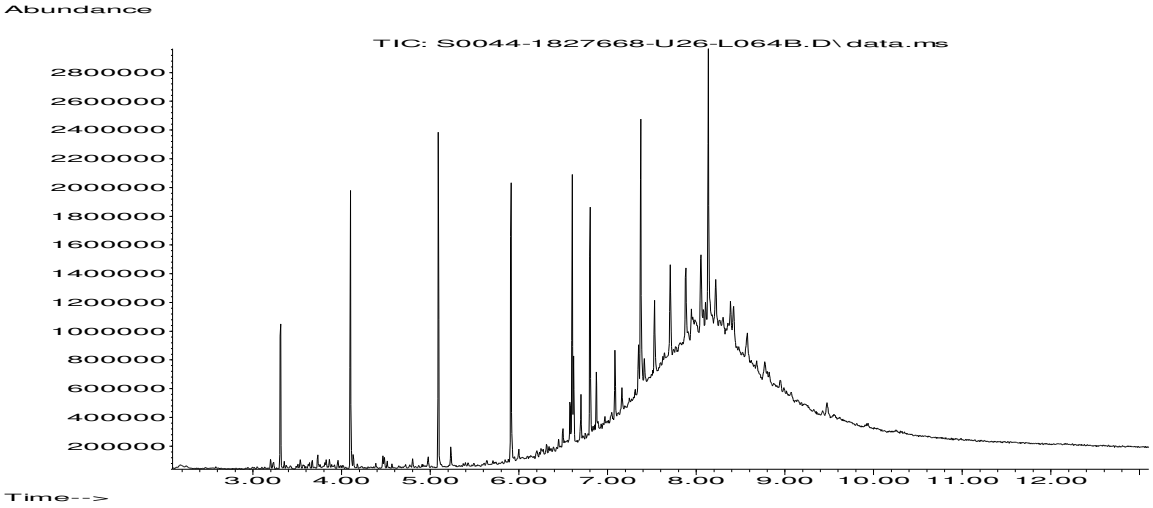

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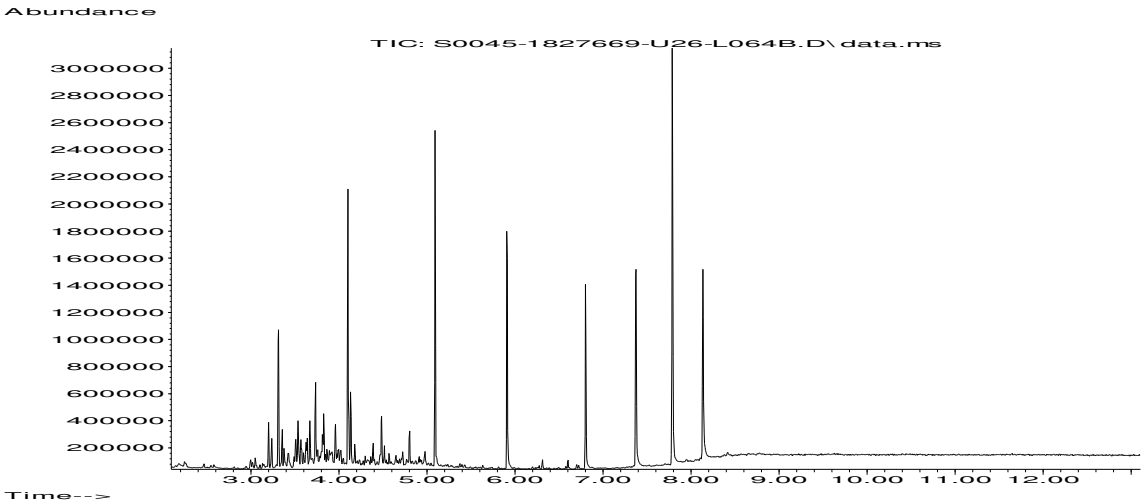

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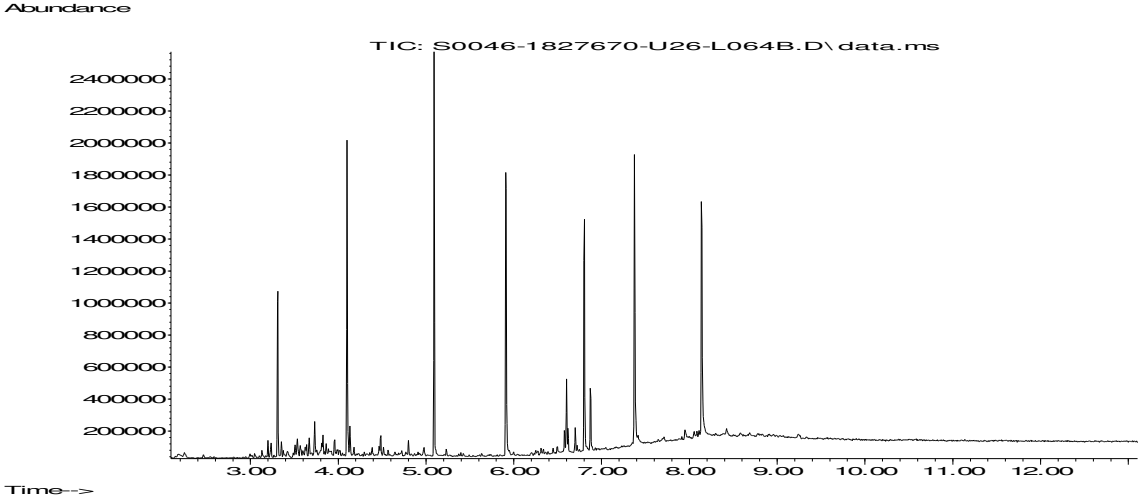

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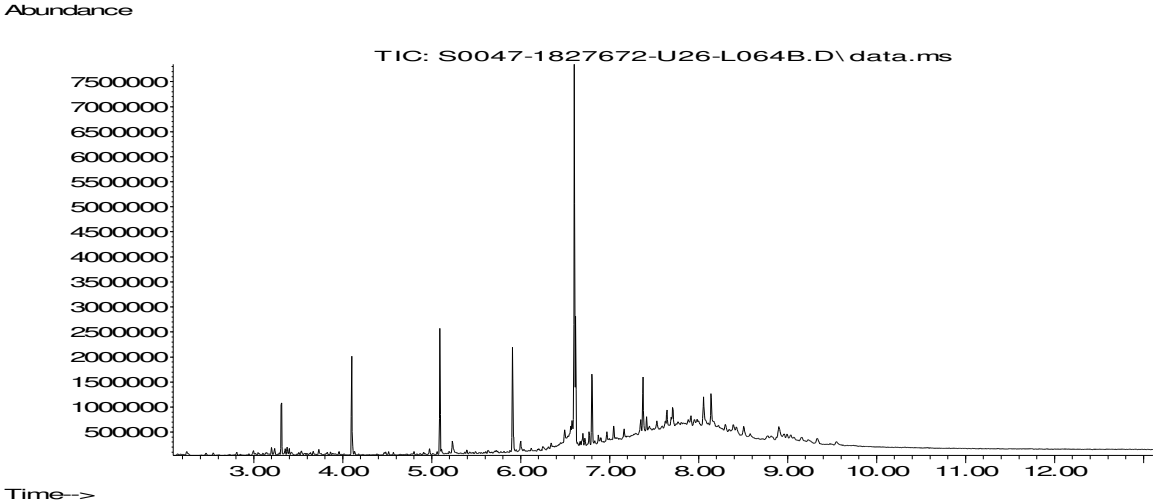

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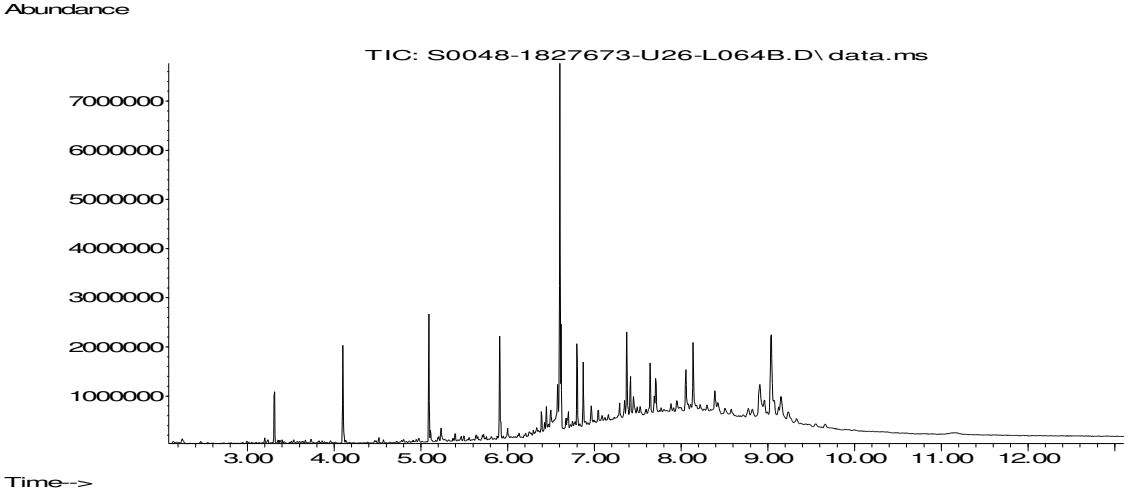

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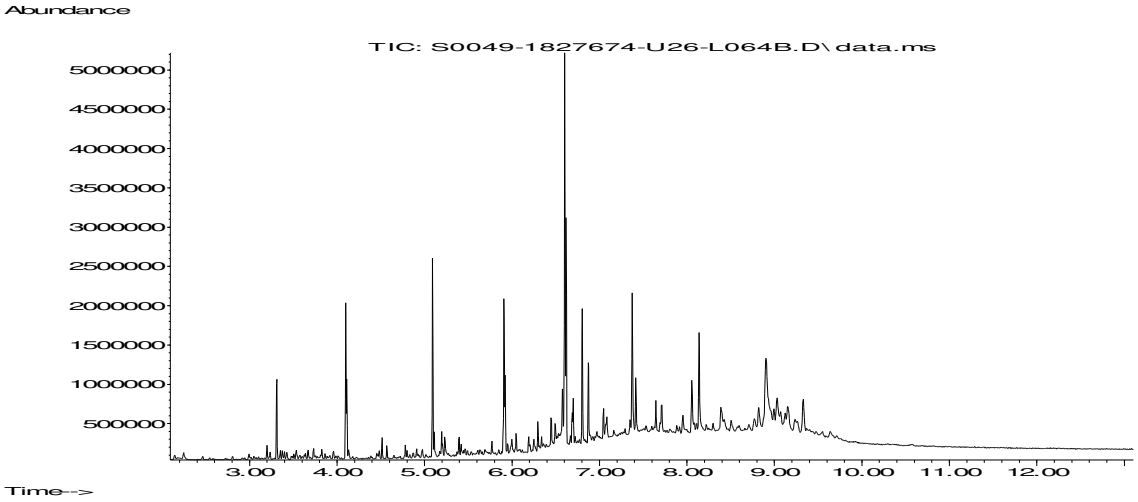

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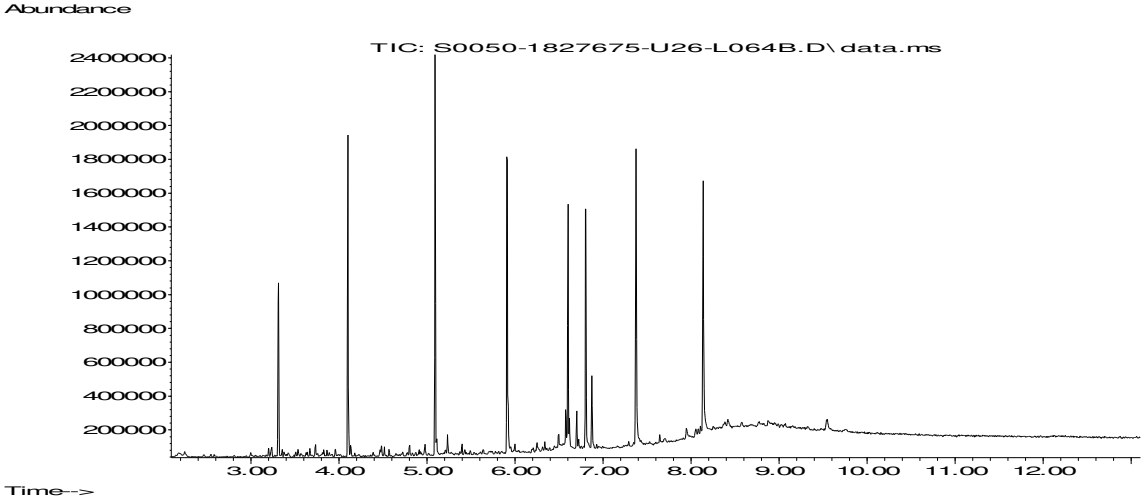

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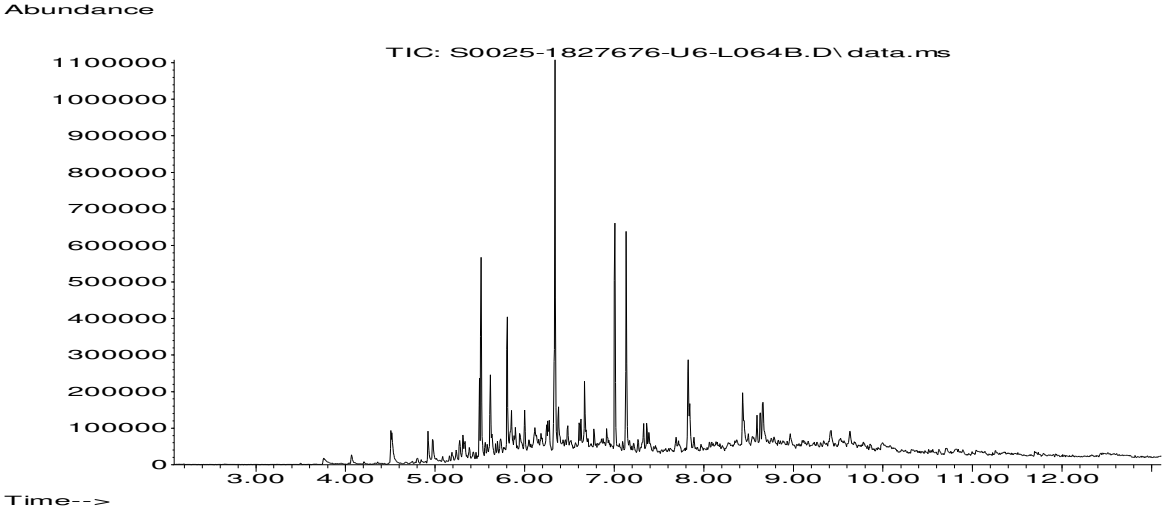

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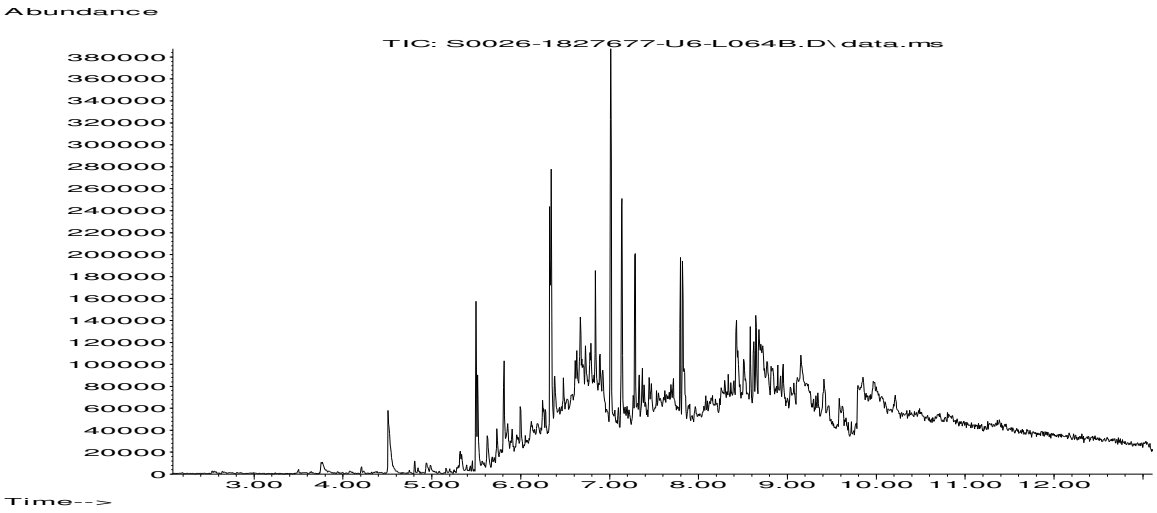

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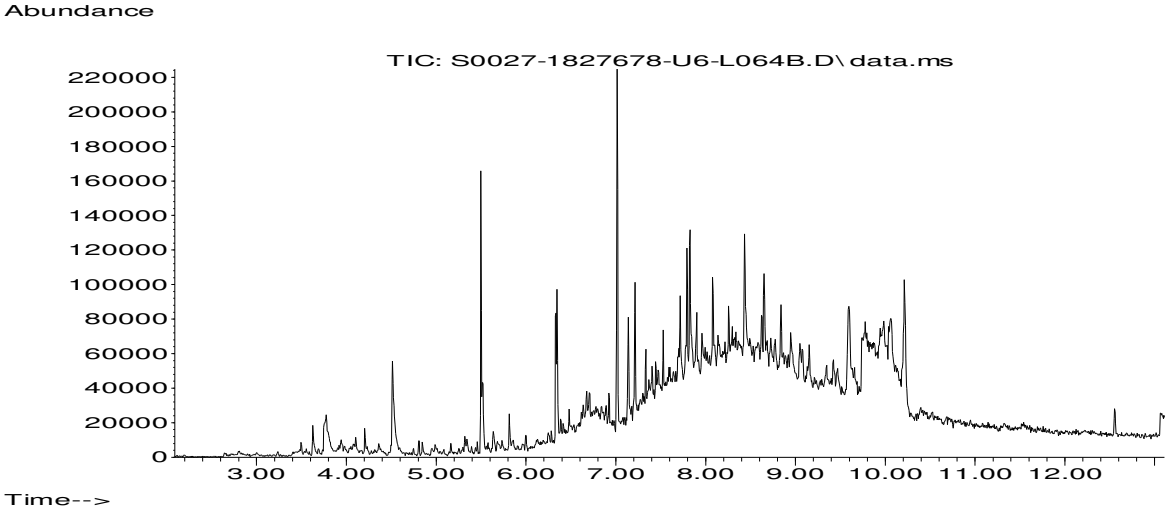

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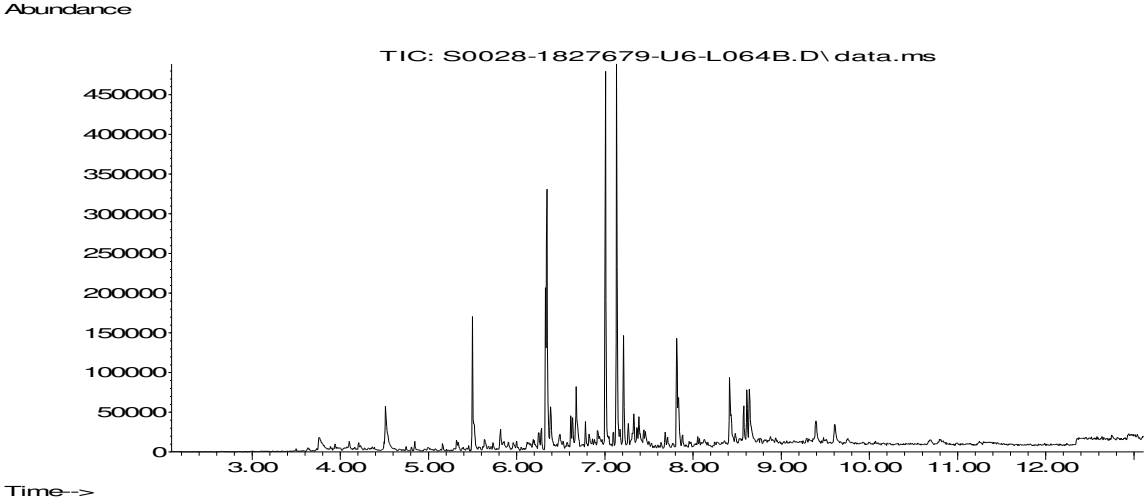

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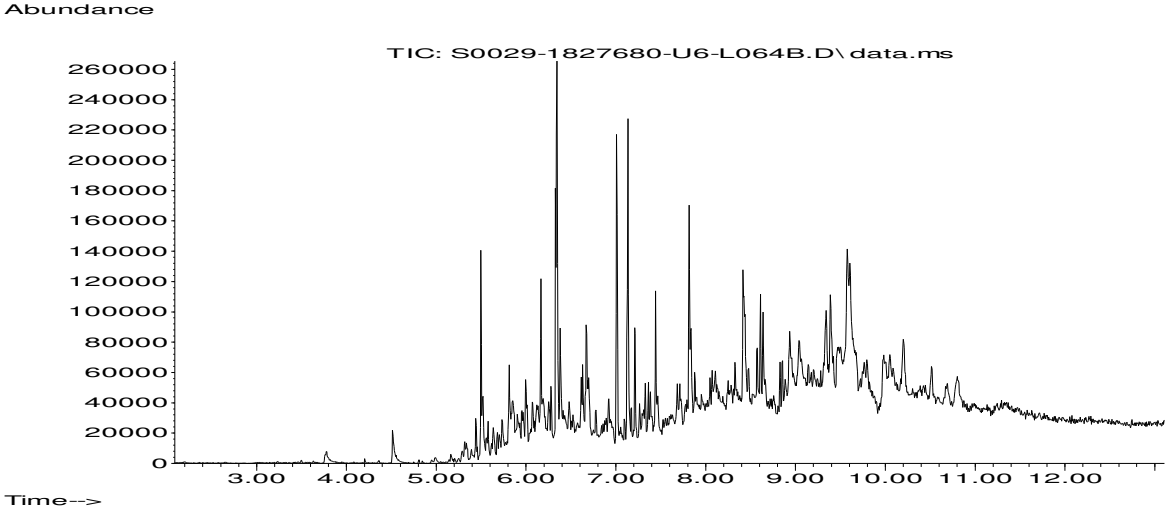

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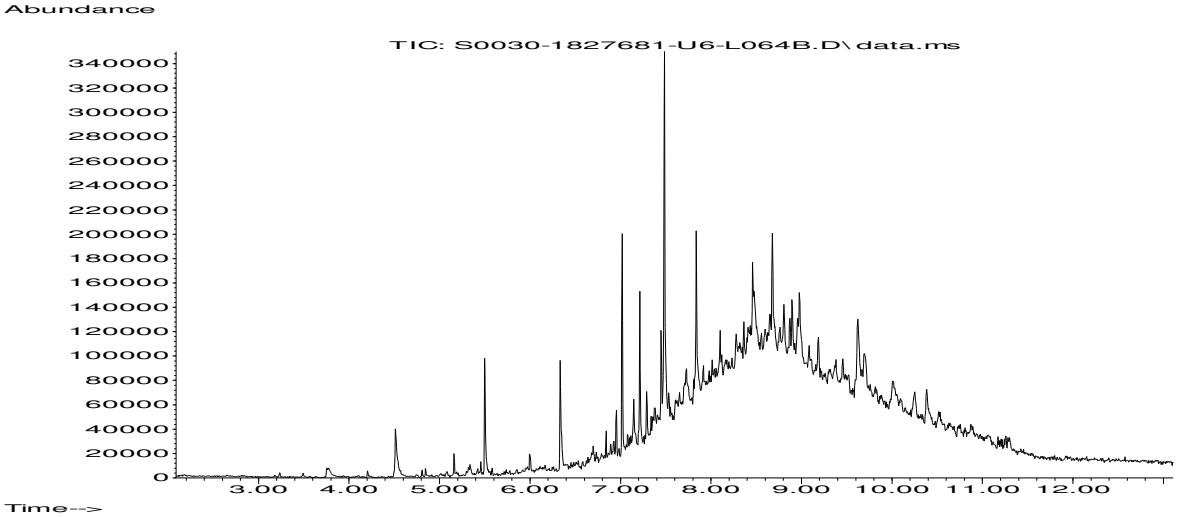

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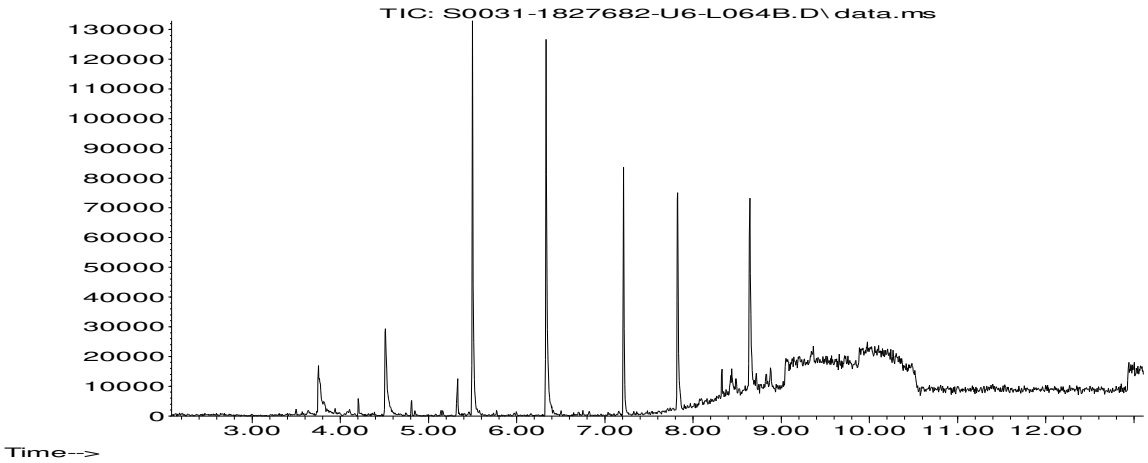

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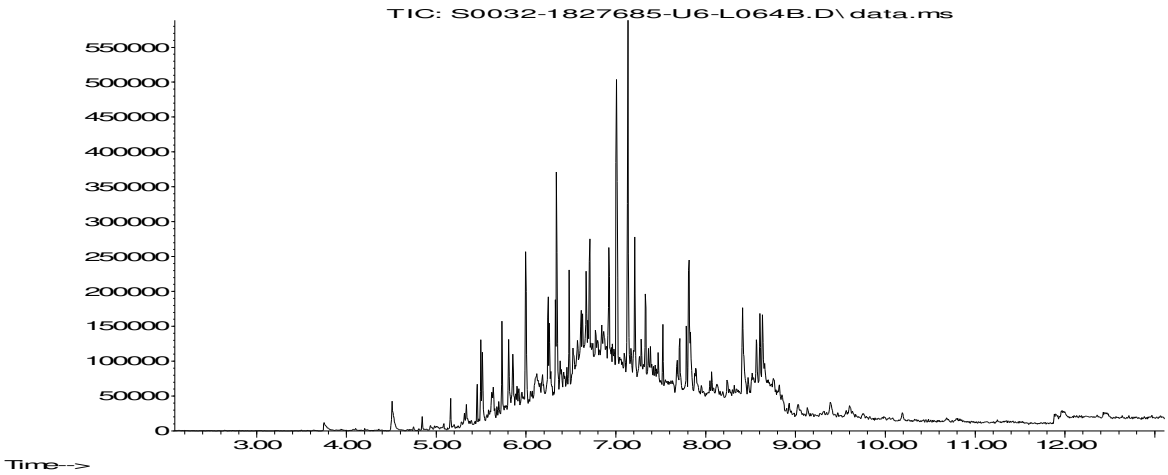

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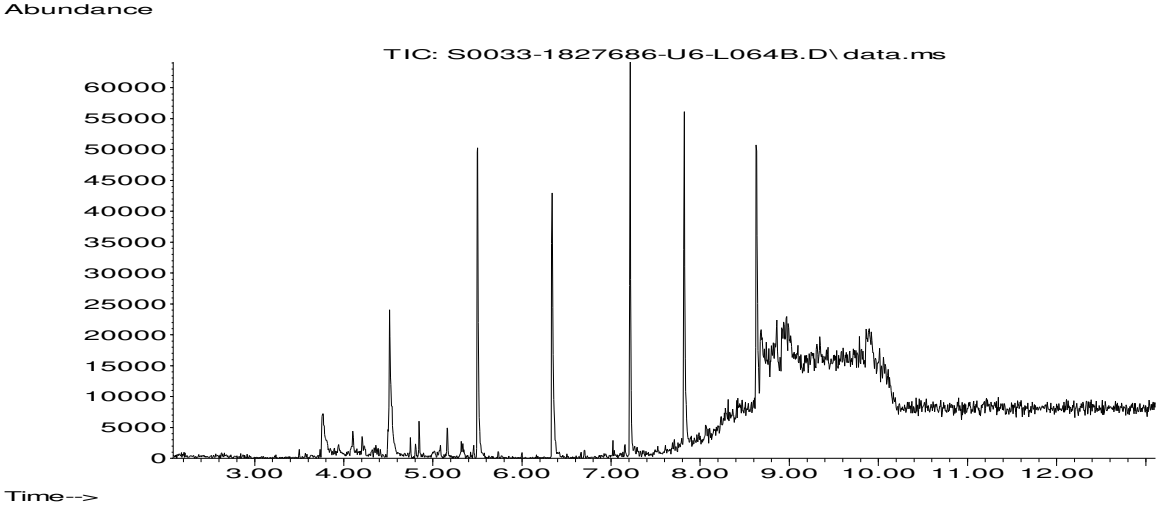

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Time-->

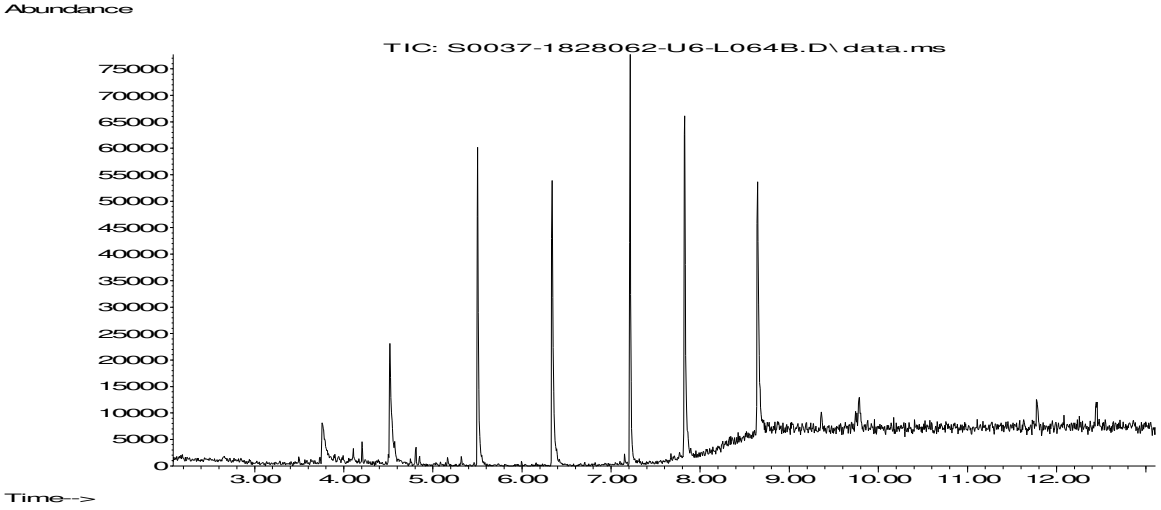

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Abundance
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Abundance
TIC: S0031-1827682-U6-L064B.D\ data.ms
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Abundance
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12.00
Time-->

**Analytical Report Number : 21-66959**
**Project / Site name: Brockhampton West Havant**

| Sample ID | Other ID | Sample Type | Lab Sample Number | Sample Deviation | Test Name | Test Ref | Test Deviation |
|---|---|---|---|---|---|---|---|
| TP107 | Cap | S | 1827669 | b | BTEX and MTBE in soil (Monoaromatics) | L073B-PL | b |
| TP107 | Cap | S | 1827669 | b | BTEX and MTBE in soil (Monoaromatics) | L073B-PL | b |
| TP107 | Cap | S | 1827669 | b | Phenols, speciated, in soil, by GCMS | L064-PL | b |
| TP107 | Cap | S | 1827669 | b | Speciated EPA-16 PAHs in soil | L064-PL | b |
| TP107 | Cap | S | 1827669 | b | TPH Chromatogram in Soil | L064-PL | b |
| TP107 | Cap | S | 1827669 | b | TPH in (Soil) | L076-PL | b |
| TP107 | Cap | S | 1827669 | b | TPHCWG (Soil) | L088/76-PL | b |
| TP107 | Waste | S | 1827670 | b | BTEX and MTBE in soil (Monoaromatics) | L073B-PL | b |
| TP107 | Waste | S | 1827670 | b | BTEX and MTBE in soil (Monoaromatics) | L073B-PL | b |
| TP107 | Waste | S | 1827670 | b | Semi-volatile organic compounds in soil | L064-PL | b |
| TP107 | Waste | S | 1827670 | b | TPH Chromatogram in Soil | L064-PL | b |
| TP107 | Waste | S | 1827670 | b | TPH in (Soil) | L076-PL | b |
| TP107 | Waste | S | 1827670 | b | TPHCWG (Soil) | L088/76-PL | b |
| TP107 | Waste | S | 1827670 | b | Volatile organic compounds in soil | L073B-PL | b |
| TP113 | Waste | S | 1827677 | b | BTEX and MTBE in soil (Monoaromatics) | L073B-PL | b |
| TP113 | Waste | S | 1827677 | b | BTEX and MTBE in soil (Monoaromatics) | L073B-PL | b |
| TP113 | Waste | S | 1827677 | b | Semi-volatile organic compounds in soil | L064-PL | b |
| TP113 | Waste | S | 1827677 | b | TPH Chromatogram in Soil | L064-PL | b |
| TP113 | Waste | S | 1827677 | b | TPH in (Soil) | L076-PL | b |
| TP113 | Waste | S | 1827677 | b | TPHCWG (Soil) | L088/76-PL | b |
| TP113 | Waste | S | 1827677 | b | Volatile organic compounds in soil | L073B-PL | b |
| TP117 | Topsoil | S | 1827682 | b | BTEX and MTBE in soil (Monoaromatics) | L073B-PL | b |
| TP117 | Topsoil | S | 1827682 | b | BTEX and MTBE in soil (Monoaromatics) | L073B-PL | b |
| TP117 | Topsoil | S | 1827682 | b | Speciated EPA-16 PAHs in soil | L064-PL | b |
| TP117 | Topsoil | S | 1827682 | b | TPH Chromatogram in Soil | L064-PL | b |
| TP117 | Topsoil | S | 1827682 | b | TPH in (Soil) | L076-PL | b |
| TP117 | Topsoil | S | 1827682 | b | TPHCWG (Soil) | L088/76-PL | b |
| TP118 | Waste | S | 1827685 | b | BTEX and MTBE in soil (Monoaromatics) | L073B-PL | b |
| TP118 | Waste | S | 1827685 | b | BTEX and MTBE in soil (Monoaromatics) | L073B-PL | b |
| TP118 | Waste | S | 1827685 | b | Speciated EPA-16 PAHs in soil | L064-PL | b |
| TP118 | Waste | S | 1827685 | b | TPH Chromatogram in Soil | L064-PL | b |
| TP118 | Waste | S | 1827685 | b | TPH in (Soil) | L076-PL | b |
| TP118 | Waste | S | 1827685 | b | TPHCWG (Soil) | L088/76-PL | b |
| TP119 | Cap x2 | S | 1827686 | b | BTEX and MTBE in soil (Monoaromatics) | L073B-PL | b |
| TP119 | Cap x2 | S | 1827686 | b | BTEX and MTBE in soil (Monoaromatics) | L073B-PL | b |
| TP119 | Cap x2 | S | 1827686 | b | Speciated EPA-16 PAHs in soil | L064-PL | b |
| TP119 | Cap x2 | S | 1827686 | b | TPH Chromatogram in Soil | L064-PL | b |
| TP119 | Cap x2 | S | 1827686 | b | TPH in (Soil) | L076-PL | b |
| TP119 | Cap x2 | S | 1827686 | b | TPHCWG (Soil) | L088/76-PL | b |

# BACTERIOLOGICAL TEST REPORT

Stansted Laboratories LTD

Unit 9-10, Riverside Industrial Estate
27 Thames Road
Barking, Essex
IG11 0ND

Tel: +44 (0)20 8594 5104
Fax: +44 (0)20 8591 8762
sales@stanstedlabs.co.uk
www.stanstedlabs.co.uk

Directors: B. Patel, K.Patel

**Client:** i2 Analytical LTD
**#Address:** 7 Woodshots Meadow
Croxley Green Business Park
Croxley Green
Hertfordshire
WD18 8YS
**#Site:** 21-70204 (Brockhampton West, Havant)
**#FAO:** Trevor Hill
**#Order No:** 13717

**Job Number:** M/182/88343
**Report No.:** 106784.1
**#Date Tak'n:** Tue, 20th Apr 2021 00:00
**Date Rec'd:** Fri, 23rd Apr 2021

Items Marked ¤ are not included in the UKAS Schedule

| Sample ID | #Description & Temperatures | Analysis | Result | Tested | Notes / Species |
|---|---|---|---|---|---|
| **SL399816**<br>*Miscellaneous* | Upstream High Tide<br>Init Temp ¤ Temp > 1 Min ¤ Temp > 2 Min ¤ | E.Coli ¤ | 770 MPN/100ml | 23/04/2021 | |
| | | Enterococci ¤ | 59 cfu/100ml | 23/04/2021 | |
| **SL399817**<br>*Miscellaneous* | Midstream High Tide<br>Init Temp ¤ Temp > 1 Min ¤ Temp > 2 Min ¤ | E.Coli ¤ | 1120 MPN/100ml | 23/04/2021 | |
| | | Enterococci ¤ | 36 cfu/100ml | 23/04/2021 | |
| **SL399818**<br>*Miscellaneous* | Downstream High Tide<br>Init Temp ¤ Temp > 1 Min ¤ Temp > 2 Min ¤ | E.Coli ¤ | 921 MPN/100ml | 23/04/2021 | |
| | | Enterococci ¤ | 51 cfu/100ml | 23/04/2021 | |
| **SL399819**<br>*Miscellaneous* | Upstream Low Tide<br>Init Temp ¤ Temp > 1 Min ¤ Temp > 2 Min ¤ | E.Coli ¤ | 411 MPN/100ml | 23/04/2021 | |
| | | Enterococci ¤ | 43 cfu/100ml | 23/04/2021 | |
| **SL399820**<br>*Miscellaneous* | Midstream Low Tide<br>Init Temp ¤ Temp > 1 Min ¤ Temp > 2 Min ¤ | E.Coli ¤ | 199 MPN/100ml | 23/04/2021 | |
| | | Enterococci ¤ | 17 cfu/100ml | 23/04/2021 | |
| **SL399821**<br>*Miscellaneous* | Downstream Low Tide<br>Init Temp ¤ Temp > 1 Min ¤ Temp > 2 Min ¤ | E.Coli ¤ | 260 MPN/100ml | 23/04/2021 | |
| | | Enterococci ¤ | 23 cfu/100ml | 23/04/2021 | |

Method Codes
SLM/B312/M - Coliforms and Escherichia coli
SLM/B370/M - Enterococci

Legend & Footnotes
cfu = Colony Forming Units
mpn = Most Probable Number
TNTC = Too Numerous to Count
#Information supplied by the customer and can affect the validity of results.
Sampling is not included in our UKAS Schedule.
All Samples Analysed as received.

Test report authorised by :
B.Patel

Director
Date: 28/04/2021 15:08:18

Test Report checked by : Vasilena Petrova Ivanova 26/04/2021 16:25:45

Disclaimer
Results relate to water samples tested and should not be reproduced except in full, without the written approval of the laboratory. Interpretations and opinions are not included in our UKAS schedule.
00:00 means time not declared.

NON LEGIONELLA SAMPLES RECEIVED OUTSIDE OF 24 HOURS. THEREFORE RESULTS MAY BE INVALID.



SLIMS.R.2 - BACTERIOLOGICAL Test Report v8 issued on 28/04/21 by BP

Reg. Office: Unit 9-10 Riverside Ind. Estate, 27 Thames Road, Barking, Essex, IG11 0ND
Reg. in England No. 7270283

# BACTERIOLOGICAL TEST REPORT

| | |
|---|---|
| **Client:** | **i2 Analytical LTD** |
| **#Address:** | 7 Woodshots Meadow<br>Croxley Green Business Park<br>Croxley Green<br>Hertfordshire<br>WD18 8YS |
| **#Site:** | 21-70204 (Brockhampton West, Havant) |
| **#FAO:** | Trevor Hill |
| **#Order No:** | 13717 |

| | |
|---|---|
| **Job Number:** | **M/182/88343** |
| **Report No.:** | **106784.1** |
| **#Date Tak'n:** | Tue, 20th Apr 2021 00:00 |
| **Date Rec'd:** | Fri, 23rd Apr 2021 |

Stansted Laboratories LTD

Unit 9-10, Riverside Industrial Estate
27 Thames Road
Barking, Essex
IG11 0ND

Tel: +44 (0)20 8594 5104
Fax: +44 (0)20 8591 8762
sales@stanstedlabs.co.uk
www.stanstedlabs.co.uk

Directors: B. Patel, K.Patel

**-------- END OF REPORT --------**

**Supersedes report 106762.1 as client requested description changes.**



Reg. Office: Unit 9-10 Riverside Ind. Estate, 27 Thames Road, Barking, Essex, IG11 0ND
Reg. in England No. 7270283

**David Jackson**
Delta-Simons
Suite C1
Joseph's Well
Hanover Walk
Leeds
LS3 1AB

**e:** david.jackson@deltasimons.com

i2 Analytical Ltd.
7 Woodshots Meadow,
Croxley Green
Business Park,
Watford,
Herts,
WD18 8YS

**t:** 01923 225404
**f:** 01923 237404
**e:** reception@i2analytical.com

# Analytical Report Number : 21-70204

| | | | |
|---|---|---|---|
| **Project / Site name:** | Brockhampton West, Havant | **Samples received on:** | 22/04/2021 |
| **Your job number:** | 19-2099.04 | **Samples instructed on/ Analysis started on:** | 22/04/2021 |
| **Your order number:** | DS59990 | **Analysis completed by:** | 28/04/2021 |
| **Report Issue Number:** | 1 | **Report issued on:** | 28/04/2021 |
| **Samples Analysed:** | 25 water samples | | |

**Signed:**

Joanna Wawrzeczko
Technical Reviewer (Reporting Team)
**For & on behalf of i2 Analytical Ltd.**

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils - 4 weeks from reporting
leachates - 2 weeks from reporting
waters - 2 weeks from reporting
asbestos - 6 months from reporting

Excel copies of reports are only valid when accompanied by this PDF certificate.

Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement.
Application of uncertainty of measurement would provide a range within which the true result lies.
An estimate of measurement uncertainty can be provided on request.

This certificate should not be reproduced, except in full, without the express permission of the laboratory.
The results included within the report are representative of the samples submitted for analysis.

**Analytical Report Number: 21-70204**
**Project / Site name: Brockhampton West, Havant**

**Your Order No: DS59990**

| **Lab Sample Number** | | | | 1845265 | 1845266 | 1845267 | 1845268 | 1845269 |
|---|---|---|---|---|---|---|---|---|
| **Sample Reference** | | | | RO101 (S) | RO101 (D) | RO102 (D) | RO103 (S) | RO103 (D) |
| **Sample Number** | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| **Depth (m)** | | | | 9.00 | 15.50 | 15.00 | 8.50 | 16.00 |
| **Date Sampled** | | | | 20/04/2021 | 20/04/2021 | 20/04/2021 | 20/04/2021 | 20/04/2021 |
| **Time Taken** | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| **Analytical Parameter (Water Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | | | | | |
| **General Inorganics** | | | | | | | | |
| pH | pH Units | N/A | ISO 17025 | 6.9 | 6.9 | 6.8 | 6.8 | 7.3 |
| Sulphate as SO4 | µg/l | 45 | ISO 17025 | 28200 | 49700 | 48100 | 6570 | 27800 |
| Total Sulphur | µg/l | 15 | NONE | - | 17000 | 16000 | - | 9300 |
| Chloride | mg/l | 0.15 | ISO 17025 | 320 | 630 | 310 | 840 | 140 |
| Total Phosphate as P | µg/l | 20 | ISO 17025 | < 20 | - | 95 | < 20 | - |
| Ammoniacal Nitrogen as NH3 | µg/l | 15 | ISO 17025 | 39000 | 73000 | 33000 | 110000 | 120 |
| Nitrate as N | mg/l | 0.01 | ISO 17025 | 0.41 | 0.40 | 0.75 | 0.28 | 0.07 |
| Nitrate as NO3 | mg/l | 0.05 | ISO 17025 | 1.82 | 1.76 | 3.32 | 1.25 | 0.31 |
| Nitrite as N | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | 540 | < 1.0 | < 1.0 |
| Nitrite as NO2 | µg/l | 5 | ISO 17025 | < 5.0 | < 5.0 | 1800 | < 5.0 | < 5.0 |
| Chemical Oxygen Demand (Total) | mg/l | 2 | ISO 17025 | - | - | - | - | - |
| BOD (Biochemical Oxygen Demand) (Total) - PL | mg/l | 1 | ISO 17025 | - | - | - | - | - |
| **Total Phenols** | | | | | | | | |
| Total Phenols (monohydric) | µg/l | 10 | ISO 17025 | - | - | 12 | - | - |
| **Speciated PAHs** | | | | | | | | |
| Naphthalene | µg/l | 0.01 | ISO 17025 | 10.2 | 0.42 | < 0.01 | 0.99 | < 0.01 |
| Acenaphthylene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Acenaphthene | µg/l | 0.01 | ISO 17025 | 1.81 | 0.97 | < 0.01 | < 0.01 | < 0.01 |
| Fluorene | µg/l | 0.01 | ISO 17025 | 0.93 | 0.38 | < 0.01 | < 0.01 | < 0.01 |
| Phenanthrene | µg/l | 0.01 | ISO 17025 | 0.47 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Anthracene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Fluoranthene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Pyrene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Benzo(a)anthracene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Chrysene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Benzo(b)fluoranthene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Benzo(k)fluoranthene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Benzo(a)pyrene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Indeno(1,2,3-cd)pyrene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Dibenz(a,h)anthracene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Benzo(ghi)perylene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| **Total PAH** | | | | | | | | |
| Total EPA-16 PAHs | µg/l | 0.16 | ISO 17025 | 13.4 | 1.77 | < 0.16 | 0.99 | < 0.16 |
| **Heavy Metals / Metalloids** | | | | | | | | |
| Chromium (hexavalent) | µg/l | 5 | ISO 17025 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 |
| Magnesium (dissolved) | mg/l | 0.005 | ISO 17025 | - | 110 | 38 | - | 10 |
| Arsenic (dissolved) | µg/l | 0.15 | ISO 17025 | 7.50 | 2.80 | 2.32 | 6.41 | 5.52 |
| Cadmium (dissolved) | µg/l | 0.02 | ISO 17025 | < 0.02 | < 0.02 | 0.02 | < 0.02 | < 0.02 |
| Chromium (dissolved) | µg/l | 0.2 | ISO 17025 | 8.1 | 4.6 | 7.6 | 10 | 2.4 |
| Copper (dissolved) | µg/l | 0.5 | ISO 17025 | 8.1 | 14 | 7.9 | 8.3 | 12 |
| Lead (dissolved) | µg/l | 0.2 | ISO 17025 | < 0.2 | < 0.2 | < 0.2 | 0.5 | < 0.2 |
| Mercury (dissolved) | µg/l | 0.05 | ISO 17025 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Nickel (dissolved) | µg/l | 0.5 | ISO 17025 | 6.2 | 6.9 | 23 | 11 | 5.1 |
| Zinc (dissolved) | µg/l | 0.5 | ISO 17025 | 5.5 | 2.5 | 190 | 3.3 | 3.1 |

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**Analytical Report Number: 21-70204**
**Project / Site name: Brockhampton West, Havant**

**Your Order No: DS59990**

| Lab Sample Number | | | | 1845265 | 1845266 | 1845267 | 1845268 | 1845269 |
|---|---|---|---|---|---|---|---|---|
| Sample Reference | | | | RO101 (S) | RO101 (D) | RO102 (D) | RO103 (S) | RO103 (D) |
| Sample Number | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Depth (m) | | | | 9.00 | 15.50 | 15.00 | 8.50 | 16.00 |
| Date Sampled | | | | 20/04/2021 | 20/04/2021 | 20/04/2021 | 20/04/2021 | 20/04/2021 |
| Time Taken | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| **Analytical Parameter (Water Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | | | | | |
| **Monoaromatics & Oxygenates** | | | | | | | | |
| Benzene | µg/l | 1 | ISO 17025 | 7.1 | < 1.0 | < 1.0 | 4.5 | < 1.0 |
| Toluene | µg/l | 1 | ISO 17025 | 4.4 | < 1.0 | < 1.0 | 1.8 | < 1.0 |
| Ethylbenzene | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | 17.8 | < 1.0 |
| p & m-xylene | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | 29.7 | < 1.0 |
| o-xylene | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | 5.3 | < 1.0 |
| MTBE (Methyl Tertiary Butyl Ether) | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| **Petroleum Hydrocarbons** | | | | | | | | |
| TPH-CWG - Aliphatic >C5 - C6 | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| TPH-CWG - Aliphatic >C6 - C8 | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| TPH-CWG - Aliphatic >C8 - C10 | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| Aliphatic >C10 - C12 | µg/l | 10 | ISO 17025 | 34 | 63 | < 10 | 12 | < 10 |
| Aliphatic >C12 - C16 | µg/l | 10 | ISO 17025 | 21 | 21 | < 10 | 17 | < 10 |
| Aliphatic >C16 - C21 | µg/l | 10 | ISO 17025 | < 10 | 12 | < 10 | < 10 | < 10 |
| Aliphatic >C21 - C35 | µg/l | 10 | ISO 17025 | < 10 | 160 | 92 | 100 | < 10 |
| Aliphatic >C10 - C35 | µg/l | 10 | ISO 17025 | 55 | 260 | 92 | 130 | < 10 |
| TPH-CWG - Aromatic >C5 - C7 | µg/l | 1 | ISO 17025 | 7.1 | < 1.0 | < 1.0 | 4.5 | < 1.0 |
| TPH-CWG - Aromatic >C7 - C8 | µg/l | 1 | ISO 17025 | 4.4 | < 1.0 | < 1.0 | 1.8 | < 1.0 |
| TPH-CWG - Aromatic >C8 - C10 | µg/l | 1 | ISO 17025 | 4.8 | < 1.0 | < 1.0 | 70 | < 1.0 |
| Aromatic >C10 - C12 | µg/l | 10 | ISO 17025 | 640 | 1700 | 80 | 480 | < 10 |
| Aromatic >C12 - C16 | µg/l | 10 | ISO 17025 | 400 | 530 | 140 | 330 | < 10 |
| Aromatic >C16 - C21 | µg/l | 10 | ISO 17025 | 110 | 220 | 78 | 200 | < 10 |
| Aromatic >C21 - C35 | µg/l | 10 | ISO 17025 | < 10 | 600 | < 10 | 570 | < 10 |
| Aromatic >C10 - C35 | µg/l | 10 | ISO 17025 | 1200 | 3100 | 300 | 1600 | < 10 |
| **VOCs** | | | | | | | | |
| Chloromethane | µg/l | 1 | ISO 17025 | - | - | < 1.0 | - | - |
| Chloroethane | µg/l | 1 | ISO 17025 | - | - | < 1.0 | - | - |
| Bromomethane | µg/l | 1 | ISO 17025 | - | - | < 1.0 | - | - |
| Vinyl Chloride | µg/l | 1 | NONE | - | - | < 1.0 | - | - |
| Trichlorofluoromethane | µg/l | 1 | NONE | - | - | < 1.0 | - | - |
| 1,1-Dichloroethene | µg/l | 1 | ISO 17025 | - | - | < 1.0 | - | - |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | µg/l | 1 | ISO 17025 | - | - | < 1.0 | - | - |
| Cis-1,2-dichloroethene | µg/l | 1 | ISO 17025 | - | - | < 1.0 | - | - |
| MTBE (Methyl Tertiary Butyl Ether) | µg/l | 1 | ISO 17025 | - | - | < 1.0 | - | - |
| 1,1-Dichloroethane | µg/l | 1 | ISO 17025 | - | - | < 1.0 | - | - |
| 2,2-Dichloropropane | µg/l | 1 | ISO 17025 | - | - | < 1.0 | - | - |
| Trichloromethane | µg/l | 1 | ISO 17025 | - | - | < 1.0 | - | - |
| 1,1,1-Trichloroethane | µg/l | 1 | ISO 17025 | - | - | < 1.0 | - | - |
| 1,2-Dichloroethane | µg/l | 1 | ISO 17025 | - | - | < 1.0 | - | - |
| 1,1-Dichloropropene | µg/l | 1 | ISO 17025 | - | - | < 1.0 | - | - |
| Trans-1,2-dichloroethene | µg/l | 1 | ISO 17025 | - | - | < 1.0 | - | - |
| Benzene | µg/l | 1 | ISO 17025 | - | - | < 1.0 | - | - |
| Tetrachloromethane | µg/l | 1 | ISO 17025 | - | - | < 1.0 | - | - |
| 1,2-Dichloropropane | µg/l | 1 | ISO 17025 | - | - | < 1.0 | - | - |
| Trichloroethene | µg/l | 1 | ISO 17025 | - | - | < 1.0 | - | - |
| Dibromomethane | µg/l | 1 | ISO 17025 | - | - | < 1.0 | - | - |
| Bromodichloromethane | µg/l | 1 | ISO 17025 | - | - | < 1.0 | - | - |

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**Analytical Report Number: 21-70204**
**Project / Site name: Brockhampton West, Havant**

**Your Order No: DS59990**

| **Lab Sample Number** | | | | 1845265 | 1845266 | 1845267 | 1845268 | 1845269 |
|---|---|---|---|---|---|---|---|---|
| **Sample Reference** | | | | RO101 (S) | RO101 (D) | RO102 (D) | RO103 (S) | RO103 (D) |
| **Sample Number** | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| **Depth (m)** | | | | 9.00 | 15.50 | 15.00 | 8.50 | 16.00 |
| **Date Sampled** | | | | 20/04/2021 | 20/04/2021 | 20/04/2021 | 20/04/2021 | 20/04/2021 |
| **Time Taken** | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| **Analytical Parameter (Water Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | | | | | |
| Cis-1,3-dichloropropene | µg/l | 1 | ISO 17025 | - | - | < 1.0 | - | - |
| Trans-1,3-dichloropropene | µg/l | 1 | ISO 17025 | - | - | < 1.0 | - | - |
| Toluene | µg/l | 1 | ISO 17025 | - | - | < 1.0 | - | - |
| 1,1,2-Trichloroethane | µg/l | 1 | ISO 17025 | - | - | < 1.0 | - | - |
| 1,3-Dichloropropane | µg/l | 1 | ISO 17025 | - | - | < 1.0 | - | - |
| Dibromochloromethane | µg/l | 1 | ISO 17025 | - | - | < 1.0 | - | - |
| Tetrachloroethene | µg/l | 1 | ISO 17025 | - | - | < 1.0 | - | - |
| 1,2-Dibromoethane | µg/l | 1 | ISO 17025 | - | - | < 1.0 | - | - |
| Chlorobenzene | µg/l | 1 | ISO 17025 | - | - | < 1.0 | - | - |
| 1,1,1,2-Tetrachloroethane | µg/l | 1 | ISO 17025 | - | - | < 1.0 | - | - |
| Ethylbenzene | µg/l | 1 | ISO 17025 | - | - | < 1.0 | - | - |
| p & m-Xylene | µg/l | 1 | ISO 17025 | - | - | < 1.0 | - | - |
| Styrene | µg/l | 1 | ISO 17025 | - | - | < 1.0 | - | - |
| Tribromomethane | µg/l | 1 | ISO 17025 | - | - | < 1.0 | - | - |
| o-Xylene | µg/l | 1 | ISO 17025 | - | - | < 1.0 | - | - |
| 1,1,2,2-Tetrachloroethane | µg/l | 1 | ISO 17025 | - | - | < 1.0 | - | - |
| Isopropylbenzene | µg/l | 1 | ISO 17025 | - | - | < 1.0 | - | - |
| Bromobenzene | µg/l | 1 | ISO 17025 | - | - | < 1.0 | - | - |
| n-Propylbenzene | µg/l | 1 | ISO 17025 | - | - | < 1.0 | - | - |
| 2-Chlorotoluene | µg/l | 1 | ISO 17025 | - | - | < 1.0 | - | - |
| 4-Chlorotoluene | µg/l | 1 | ISO 17025 | - | - | < 1.0 | - | - |
| 1,3,5-Trimethylbenzene | µg/l | 1 | ISO 17025 | - | - | < 1.0 | - | - |
| tert-Butylbenzene | µg/l | 1 | ISO 17025 | - | - | < 1.0 | - | - |
| 1,2,4-Trimethylbenzene | µg/l | 1 | ISO 17025 | - | - | < 1.0 | - | - |
| sec-Butylbenzene | µg/l | 1 | ISO 17025 | - | - | < 1.0 | - | - |
| 1,3-Dichlorobenzene | µg/l | 1 | ISO 17025 | - | - | < 1.0 | - | - |
| p-Isopropyltoluene | µg/l | 1 | ISO 17025 | - | - | < 1.0 | - | - |
| 1,2-Dichlorobenzene | µg/l | 1 | ISO 17025 | - | - | < 1.0 | - | - |
| 1,4-Dichlorobenzene | µg/l | 1 | ISO 17025 | - | - | < 1.0 | - | - |
| Butylbenzene | µg/l | 1 | ISO 17025 | - | - | < 1.0 | - | - |
| 1,2-Dibromo-3-chloropropane | µg/l | 1 | ISO 17025 | - | - | < 1.0 | - | - |
| 1,2,4-Trichlorobenzene | µg/l | 1 | ISO 17025 | - | - | < 1.0 | - | - |
| Hexachlorobutadiene | µg/l | 1 | ISO 17025 | - | - | < 1.0 | - | - |
| 1,2,3-Trichlorobenzene | µg/l | 1 | ISO 17025 | - | - | < 1.0 | - | - |

**SVOCs**

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Aniline | µg/l | 0.05 | NONE | - | - | < 0.05 | - | - |
| Phenol | µg/l | 0.05 | NONE | - | - | < 0.05 | - | - |
| 2-Chlorophenol | µg/l | 0.05 | NONE | - | - | < 0.05 | - | - |
| Bis(2-chloroethyl)ether | µg/l | 0.05 | NONE | - | - | < 0.05 | - | - |
| 1,3-Dichlorobenzene | µg/l | 0.05 | NONE | - | - | < 0.05 | - | - |
| 1,2-Dichlorobenzene | µg/l | 0.05 | NONE | - | - | < 0.05 | - | - |
| 1,4-Dichlorobenzene | µg/l | 0.05 | NONE | - | - | < 0.05 | - | - |
| Bis(2-chloroisopropyl)ether | µg/l | 0.05 | NONE | - | - | < 0.05 | - | - |
| 2-Methylphenol | µg/l | 0.05 | NONE | - | - | < 0.05 | - | - |
| Hexachloroethane | µg/l | 0.05 | NONE | - | - | < 0.05 | - | - |
| Nitrobenzene | µg/l | 0.05 | NONE | - | - | < 0.05 | - | - |
| 4-Methylphenol | µg/l | 0.05 | NONE | - | - | < 0.05 | - | - |
| Isophorone | µg/l | 0.05 | NONE | - | - | < 0.05 | - | - |
| 2-Nitrophenol | µg/l | 0.05 | NONE | - | - | < 0.05 | - | - |
| 2,4-Dimethylphenol | µg/l | 0.05 | NONE | - | - | < 0.05 | - | - |
| Bis(2-chloroethoxy)methane | µg/l | 0.05 | NONE | - | - | < 0.05 | - | - |
| 1,2,4-Trichlorobenzene | µg/l | 0.05 | NONE | - | - | < 0.05 | - | - |

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**Analytical Report Number: 21-70204**
**Project / Site name: Brockhampton West, Havant**

**Your Order No: DS59990**

| Lab Sample Number | | | | 1845265 | 1845266 | 1845267 | 1845268 | 1845269 |
|---|---|---|---|---|---|---|---|---|
| Sample Reference | | | | RO101 (S) | RO101 (D) | RO102 (D) | RO103 (S) | RO103 (D) |
| Sample Number | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Depth (m) | | | | 9.00 | 15.50 | 15.00 | 8.50 | 16.00 |
| Date Sampled | | | | 20/04/2021 | 20/04/2021 | 20/04/2021 | 20/04/2021 | 20/04/2021 |
| Time Taken | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| **Analytical Parameter (Water Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | | | | | |
| Naphthalene | µg/l | 0.01 | ISO 17025 | - | - | < 0.01 | - | - |
| 2,4-Dichlorophenol | µg/l | 0.05 | NONE | - | - | < 0.05 | - | - |
| 4-Chloroaniline | µg/l | 0.05 | NONE | - | - | < 0.05 | - | - |
| Hexachlorobutadiene | µg/l | 0.05 | NONE | - | - | < 0.05 | - | - |
| 4-Chloro-3-methylphenol | µg/l | 0.05 | NONE | - | - | < 0.05 | - | - |
| 2,4,6-Trichlorophenol | µg/l | 0.05 | NONE | - | - | < 0.05 | - | - |
| 2,4,5-Trichlorophenol | µg/l | 0.05 | NONE | - | - | < 0.05 | - | - |
| 2-Methylnaphthalene | µg/l | 0.05 | NONE | - | - | < 0.05 | - | - |
| 2-Chloronaphthalene | µg/l | 0.05 | NONE | - | - | < 0.05 | - | - |
| Dimethylphthalate | µg/l | 0.05 | NONE | - | - | < 0.05 | - | - |
| 2,6-Dinitrotoluene | µg/l | 0.05 | NONE | - | - | < 0.05 | - | - |
| Acenaphthylene | µg/l | 0.01 | ISO 17025 | - | - | < 0.01 | - | - |
| Acenaphthene | µg/l | 0.01 | ISO 17025 | - | - | < 0.01 | - | - |
| 2,4-Dinitrotoluene | µg/l | 0.05 | NONE | - | - | < 0.05 | - | - |
| Dibenzofuran | µg/l | 0.05 | NONE | - | - | < 0.05 | - | - |
| 4-Chlorophenyl phenyl ether | µg/l | 0.05 | NONE | - | - | < 0.05 | - | - |
| Diethyl phthalate | µg/l | 0.05 | NONE | - | - | < 0.05 | - | - |
| 4-Nitroaniline | µg/l | 0.05 | NONE | - | - | < 0.05 | - | - |
| Fluorene | µg/l | 0.01 | ISO 17025 | - | - | < 0.01 | - | - |
| Azobenzene | µg/l | 0.05 | NONE | - | - | < 0.05 | - | - |
| Bromophenyl phenyl ether | µg/l | 0.05 | NONE | - | - | < 0.05 | - | - |
| Hexachlorobenzene | µg/l | 0.05 | NONE | - | - | < 0.05 | - | - |
| Phenanthrene | µg/l | 0.01 | ISO 17025 | - | - | < 0.01 | - | - |
| Anthracene | µg/l | 0.01 | ISO 17025 | - | - | < 0.01 | - | - |
| Carbazole | µg/l | 0.05 | NONE | - | - | < 0.05 | - | - |
| Dibutyl phthalate | µg/l | 0.05 | NONE | - | - | < 0.05 | - | - |
| Anthraquinone | µg/l | 0.05 | NONE | - | - | < 0.05 | - | - |
| Fluoranthene | µg/l | 0.01 | ISO 17025 | - | - | < 0.01 | - | - |
| Pyrene | µg/l | 0.01 | ISO 17025 | - | - | < 0.01 | - | - |
| Butyl benzyl phthalate | µg/l | 0.05 | NONE | - | - | < 0.05 | - | - |
| Benzo(a)anthracene | µg/l | 0.01 | ISO 17025 | - | - | < 0.01 | - | - |
| Chrysene | µg/l | 0.01 | ISO 17025 | - | - | < 0.01 | - | - |
| Benzo(b)fluoranthene | µg/l | 0.01 | ISO 17025 | - | - | < 0.01 | - | - |
| Benzo(k)fluoranthene | µg/l | 0.01 | ISO 17025 | - | - | < 0.01 | - | - |
| Benzo(a)pyrene | µg/l | 0.01 | ISO 17025 | - | - | < 0.01 | - | - |
| Indeno(1,2,3-cd)pyrene | µg/l | 0.01 | ISO 17025 | - | - | < 0.01 | - | - |
| Dibenz(a,h)anthracene | µg/l | 0.01 | ISO 17025 | - | - | < 0.01 | - | - |
| Benzo(ghi)perylene | µg/l | 0.01 | ISO 17025 | - | - | < 0.01 | - | - |
| 3&4-Methylphenol | µg/l | 0.1 | NONE | - | - | < 0.10 | - | - |

**Microbiological (Subcontracted)**

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| E. Coli | | 1 | NONE | - | - | - | - | - |

U/S = Unsuitable Sample  I/S = Insufficient Sample

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**Analytical Report Number: 21-70204**
**Project / Site name: Brockhampton West, Havant**

**Your Order No: DS59990**

| Lab Sample Number | | | | 1845270 | 1845271 | 1845272 | 1845273 | 1845274 |
|---|---|---|---|---|---|---|---|---|
| Sample Reference | | | | RO104 (S) | RO104 (D) | RO105 (S) | RO105 (D) | RO106 (S) |
| Sample Number | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Depth (m) | | | | 9.00 | 16.50 | 10.00 | 14.50 | 12.50 |
| Date Sampled | | | | 20/04/2021 | 20/04/2021 | 20/04/2021 | 20/04/2021 | 20/04/2021 |
| Time Taken | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| **Analytical Parameter (Water Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | | | | | |
| **General Inorganics** | | | | | | | | |
| pH | pH Units | N/A | ISO 17025 | 7.0 | 7.3 | 6.9 | 6.9 | 6.9 |
| Sulphate as SO4 | µg/l | 45 | ISO 17025 | 6420 | 27200 | 10900 | 4760 | 9740 |
| Total Sulphur | µg/l | 15 | NONE | 2100 | - | - | 1600 | - |
| Chloride | mg/l | 0.15 | ISO 17025 | 420 | 32 | 200 | 160 | 500 |
| Total Phosphate as P | µg/l | 20 | ISO 17025 | - | - | < 20 | - | - |
| Ammoniacal Nitrogen as NH3 | µg/l | 15 | ISO 17025 | 180000 | 44 | 65000 | 44000 | 180000 |
| Nitrate as N | mg/l | 0.01 | ISO 17025 | 0.23 | 0.68 | 0.19 | 0.32 | 0.33 |
| Nitrate as NO3 | mg/l | 0.05 | ISO 17025 | 1.04 | 3.01 | 0.83 | 1.40 | 1.45 |
| Nitrite as N | µg/l | 1 | ISO 17025 | < 1.0 | 71 | < 1.0 | < 1.0 | < 1.0 |
| Nitrite as NO2 | µg/l | 5 | ISO 17025 | < 5.0 | 230 | < 5.0 | < 5.0 | < 5.0 |
| Chemical Oxygen Demand (Total) | mg/l | 2 | ISO 17025 | - | - | - | - | - |
| BOD (Biochemical Oxygen Demand) (Total) - PL | mg/l | 1 | ISO 17025 | - | - | - | - | - |
| **Total Phenols** | | | | | | | | |
| Total Phenols (monohydric) | µg/l | 10 | ISO 17025 | - | < 10 | - | < 10 | - |
| **Speciated PAHs** | | | | | | | | |
| Naphthalene | µg/l | 0.01 | ISO 17025 | 0.43 | < 0.01 | < 0.01 | < 0.01 | 3.96 |
| Acenaphthylene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Acenaphthene | µg/l | 0.01 | ISO 17025 | 0.67 | < 0.01 | < 0.01 | < 0.01 | 3.92 |
| Fluorene | µg/l | 0.01 | ISO 17025 | 0.47 | < 0.01 | < 0.01 | < 0.01 | 2.20 |
| Phenanthrene | µg/l | 0.01 | ISO 17025 | 0.37 | < 0.01 | < 0.01 | < 0.01 | 2.22 |
| Anthracene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | 0.29 |
| Fluoranthene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Pyrene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Benzo(a)anthracene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Chrysene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Benzo(b)fluoranthene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Benzo(k)fluoranthene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Benzo(a)pyrene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Indeno(1,2,3-cd)pyrene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Dibenz(a,h)anthracene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Benzo(ghi)perylene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| **Total PAH** | | | | | | | | |
| Total EPA-16 PAHs | µg/l | 0.16 | ISO 17025 | 1.94 | < 0.16 | < 0.16 | < 0.16 | 12.6 |
| **Heavy Metals / Metalloids** | | | | | | | | |
| Chromium (hexavalent) | µg/l | 5 | ISO 17025 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 |
| Magnesium (dissolved) | mg/l | 0.005 | ISO 17025 | 78 | - | - | 52 | - |
| Arsenic (dissolved) | µg/l | 0.15 | ISO 17025 | 5.88 | 1.71 | 1.57 | 5.13 | 1.44 |
| Cadmium (dissolved) | µg/l | 0.02 | ISO 17025 | < 0.02 | < 0.02 | < 0.02 | < 0.02 | < 0.02 |
| Chromium (dissolved) | µg/l | 0.2 | ISO 17025 | 7.6 | 10 | 11 | 9.6 | 5.0 |
| Copper (dissolved) | µg/l | 0.5 | ISO 17025 | 13 | 11 | 8.5 | 9.4 | 13 |
| Lead (dissolved) | µg/l | 0.2 | ISO 17025 | 0.3 | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Mercury (dissolved) | µg/l | 0.05 | ISO 17025 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Nickel (dissolved) | µg/l | 0.5 | ISO 17025 | 9.1 | 8.7 | 7.6 | 19 | 3.8 |
| Zinc (dissolved) | µg/l | 0.5 | ISO 17025 | 4.8 | 4.4 | 4.5 | 3.4 | 0.5 |

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**Analytical Report Number: 21-70204**
**Project / Site name: Brockhampton West, Havant**

**Your Order No: DS59990**

| Lab Sample Number | | | | 1845270 | 1845271 | 1845272 | 1845273 | 1845274 |
|---|---|---|---|---|---|---|---|---|
| Sample Reference | | | | RO104 (S) | RO104 (D) | RO105 (S) | RO105 (D) | RO106 (S) |
| Sample Number | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Depth (m) | | | | 9.00 | 16.50 | 10.00 | 14.50 | 12.50 |
| Date Sampled | | | | 20/04/2021 | 20/04/2021 | 20/04/2021 | 20/04/2021 | 20/04/2021 |
| Time Taken | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| **Analytical Parameter (Water Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | | | | | |
| **Monoaromatics & Oxygenates** | | | | | | | | |
| Benzene | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| Toluene | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| Ethylbenzene | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| p & m-xylene | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| o-xylene | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| MTBE (Methyl Tertiary Butyl Ether) | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| **Petroleum Hydrocarbons** | | | | | | | | |
| TPH-CWG - Aliphatic >C5 - C6 | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| TPH-CWG - Aliphatic >C6 - C8 | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| TPH-CWG - Aliphatic >C8 - C10 | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| Aliphatic >C10 - C12 | µg/l | 10 | ISO 17025 | 19 | < 10 | 10 | < 10 | < 10 |
| Aliphatic >C12 - C16 | µg/l | 10 | ISO 17025 | 18 | < 10 | 11 | < 10 | 13 |
| Aliphatic >C16 - C21 | µg/l | 10 | ISO 17025 | 13 | < 10 | < 10 | < 10 | < 10 |
| Aliphatic >C21 - C35 | µg/l | 10 | ISO 17025 | 220 | < 10 | 100 | < 10 | < 10 |
| Aliphatic >C10 - C35 | µg/l | 10 | ISO 17025 | 270 | < 10 | 130 | < 10 | 13 |
| TPH-CWG - Aromatic >C5 - C7 | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| TPH-CWG - Aromatic >C7 - C8 | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| TPH-CWG - Aromatic >C8 - C10 | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| Aromatic >C10 - C12 | µg/l | 10 | ISO 17025 | 320 | < 10 | 120 | < 10 | 160 |
| Aromatic >C12 - C16 | µg/l | 10 | ISO 17025 | 380 | < 10 | 170 | < 10 | 250 |
| Aromatic >C16 - C21 | µg/l | 10 | ISO 17025 | 240 | < 10 | 110 | < 10 | 150 |
| Aromatic >C21 - C35 | µg/l | 10 | ISO 17025 | 660 | < 10 | 440 | < 10 | < 10 |
| Aromatic >C10 - C35 | µg/l | 10 | ISO 17025 | 1600 | < 10 | 840 | < 10 | 550 |
| **VOCs** | | | | | | | | |
| Chloromethane | µg/l | 1 | ISO 17025 | < 1.0 | - | < 1.0 | - | - |
| Chloroethane | µg/l | 1 | ISO 17025 | < 1.0 | - | < 1.0 | - | - |
| Bromomethane | µg/l | 1 | ISO 17025 | < 1.0 | - | < 1.0 | - | - |
| Vinyl Chloride | µg/l | 1 | NONE | < 1.0 | - | < 1.0 | - | - |
| Trichlorofluoromethane | µg/l | 1 | NONE | < 1.0 | - | < 1.0 | - | - |
| 1,1-Dichloroethene | µg/l | 1 | ISO 17025 | < 1.0 | - | < 1.0 | - | - |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | µg/l | 1 | ISO 17025 | < 1.0 | - | < 1.0 | - | - |
| Cis-1,2-dichloroethene | µg/l | 1 | ISO 17025 | < 1.0 | - | < 1.0 | - | - |
| MTBE (Methyl Tertiary Butyl Ether) | µg/l | 1 | ISO 17025 | < 1.0 | - | < 1.0 | - | - |
| 1,1-Dichloroethane | µg/l | 1 | ISO 17025 | < 1.0 | - | < 1.0 | - | - |
| 2,2-Dichloropropane | µg/l | 1 | ISO 17025 | < 1.0 | - | < 1.0 | - | - |
| Trichloromethane | µg/l | 1 | ISO 17025 | < 1.0 | - | < 1.0 | - | - |
| 1,1,1-Trichloroethane | µg/l | 1 | ISO 17025 | < 1.0 | - | < 1.0 | - | - |
| 1,2-Dichloroethane | µg/l | 1 | ISO 17025 | < 1.0 | - | < 1.0 | - | - |
| 1,1-Dichloropropene | µg/l | 1 | ISO 17025 | < 1.0 | - | < 1.0 | - | - |
| Trans-1,2-dichloroethene | µg/l | 1 | ISO 17025 | < 1.0 | - | < 1.0 | - | - |
| Benzene | µg/l | 1 | ISO 17025 | < 1.0 | - | < 1.0 | - | - |
| Tetrachloromethane | µg/l | 1 | ISO 17025 | < 1.0 | - | < 1.0 | - | - |
| 1,2-Dichloropropane | µg/l | 1 | ISO 17025 | < 1.0 | - | < 1.0 | - | - |
| Trichloroethene | µg/l | 1 | ISO 17025 | < 1.0 | - | < 1.0 | - | - |
| Dibromomethane | µg/l | 1 | ISO 17025 | < 1.0 | - | < 1.0 | - | - |
| Bromodichloromethane | µg/l | 1 | ISO 17025 | < 1.0 | - | < 1.0 | - | - |

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**Analytical Report Number: 21-70204**
**Project / Site name: Brockhampton West, Havant**

**Your Order No: DS59990**

| **Lab Sample Number** | | | | 1845270 | 1845271 | 1845272 | 1845273 | 1845274 |
|---|---|---|---|---|---|---|---|---|
| **Sample Reference** | | | | RO104 (S) | RO104 (D) | RO105 (S) | RO105 (D) | RO106 (S) |
| **Sample Number** | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| **Depth (m)** | | | | 9.00 | 16.50 | 10.00 | 14.50 | 12.50 |
| **Date Sampled** | | | | 20/04/2021 | 20/04/2021 | 20/04/2021 | 20/04/2021 | 20/04/2021 |
| **Time Taken** | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| **Analytical Parameter (Water Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | | | | | |
| Cis-1,3-dichloropropene | µg/l | 1 | ISO 17025 | < 1.0 | - | < 1.0 | - | - |
| Trans-1,3-dichloropropene | µg/l | 1 | ISO 17025 | < 1.0 | - | < 1.0 | - | - |
| Toluene | µg/l | 1 | ISO 17025 | < 1.0 | - | < 1.0 | - | - |
| 1,1,2-Trichloroethane | µg/l | 1 | ISO 17025 | < 1.0 | - | < 1.0 | - | - |
| 1,3-Dichloropropane | µg/l | 1 | ISO 17025 | < 1.0 | - | < 1.0 | - | - |
| Dibromochloromethane | µg/l | 1 | ISO 17025 | < 1.0 | - | < 1.0 | - | - |
| Tetrachloroethene | µg/l | 1 | ISO 17025 | < 1.0 | - | < 1.0 | - | - |
| 1,2-Dibromoethane | µg/l | 1 | ISO 17025 | < 1.0 | - | < 1.0 | - | - |
| Chlorobenzene | µg/l | 1 | ISO 17025 | < 1.0 | - | < 1.0 | - | - |
| 1,1,1,2-Tetrachloroethane | µg/l | 1 | ISO 17025 | < 1.0 | - | < 1.0 | - | - |
| Ethylbenzene | µg/l | 1 | ISO 17025 | < 1.0 | - | < 1.0 | - | - |
| p & m-Xylene | µg/l | 1 | ISO 17025 | < 1.0 | - | < 1.0 | - | - |
| Styrene | µg/l | 1 | ISO 17025 | < 1.0 | - | < 1.0 | - | - |
| Tribromomethane | µg/l | 1 | ISO 17025 | < 1.0 | - | < 1.0 | - | - |
| o-Xylene | µg/l | 1 | ISO 17025 | < 1.0 | - | < 1.0 | - | - |
| 1,1,2,2-Tetrachloroethane | µg/l | 1 | ISO 17025 | < 1.0 | - | < 1.0 | - | - |
| Isopropylbenzene | µg/l | 1 | ISO 17025 | < 1.0 | - | < 1.0 | - | - |
| Bromobenzene | µg/l | 1 | ISO 17025 | < 1.0 | - | < 1.0 | - | - |
| n-Propylbenzene | µg/l | 1 | ISO 17025 | < 1.0 | - | < 1.0 | - | - |
| 2-Chlorotoluene | µg/l | 1 | ISO 17025 | < 1.0 | - | < 1.0 | - | - |
| 4-Chlorotoluene | µg/l | 1 | ISO 17025 | < 1.0 | - | < 1.0 | - | - |
| 1,3,5-Trimethylbenzene | µg/l | 1 | ISO 17025 | < 1.0 | - | < 1.0 | - | - |
| tert-Butylbenzene | µg/l | 1 | ISO 17025 | < 1.0 | - | < 1.0 | - | - |
| 1,2,4-Trimethylbenzene | µg/l | 1 | ISO 17025 | < 1.0 | - | < 1.0 | - | - |
| sec-Butylbenzene | µg/l | 1 | ISO 17025 | < 1.0 | - | < 1.0 | - | - |
| 1,3-Dichlorobenzene | µg/l | 1 | ISO 17025 | < 1.0 | - | < 1.0 | - | - |
| p-Isopropyltoluene | µg/l | 1 | ISO 17025 | < 1.0 | - | < 1.0 | - | - |
| 1,2-Dichlorobenzene | µg/l | 1 | ISO 17025 | < 1.0 | - | < 1.0 | - | - |
| 1,4-Dichlorobenzene | µg/l | 1 | ISO 17025 | < 1.0 | - | < 1.0 | - | - |
| Butylbenzene | µg/l | 1 | ISO 17025 | < 1.0 | - | < 1.0 | - | - |
| 1,2-Dibromo-3-chloropropane | µg/l | 1 | ISO 17025 | < 1.0 | - | < 1.0 | - | - |
| 1,2,4-Trichlorobenzene | µg/l | 1 | ISO 17025 | < 1.0 | - | < 1.0 | - | - |
| Hexachlorobutadiene | µg/l | 1 | ISO 17025 | < 1.0 | - | < 1.0 | - | - |
| 1,2,3-Trichlorobenzene | µg/l | 1 | ISO 17025 | < 1.0 | - | < 1.0 | - | - |

**SVOCs**

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Aniline | µg/l | 0.05 | NONE | < 0.05 | - | < 0.05 | - | - |
| Phenol | µg/l | 0.05 | NONE | 2.0 | - | < 0.05 | - | - |
| 2-Chlorophenol | µg/l | 0.05 | NONE | < 0.05 | - | < 0.05 | - | - |
| Bis(2-chloroethyl)ether | µg/l | 0.05 | NONE | < 0.05 | - | < 0.05 | - | - |
| 1,3-Dichlorobenzene | µg/l | 0.05 | NONE | < 0.05 | - | < 0.05 | - | - |
| 1,2-Dichlorobenzene | µg/l | 0.05 | NONE | < 0.05 | - | < 0.05 | - | - |
| 1,4-Dichlorobenzene | µg/l | 0.05 | NONE | < 0.05 | - | < 0.05 | - | - |
| Bis(2-chloroisopropyl)ether | µg/l | 0.05 | NONE | < 0.05 | - | < 0.05 | - | - |
| 2-Methylphenol | µg/l | 0.05 | NONE | < 0.05 | - | < 0.05 | - | - |
| Hexachloroethane | µg/l | 0.05 | NONE | < 0.05 | - | < 0.05 | - | - |
| Nitrobenzene | µg/l | 0.05 | NONE | < 0.05 | - | < 0.05 | - | - |
| 4-Methylphenol | µg/l | 0.05 | NONE | 15 | - | < 0.05 | - | - |
| Isophorone | µg/l | 0.05 | NONE | < 0.05 | - | < 0.05 | - | - |
| 2-Nitrophenol | µg/l | 0.05 | NONE | < 0.05 | - | < 0.05 | - | - |
| 2,4-Dimethylphenol | µg/l | 0.05 | NONE | < 0.05 | - | < 0.05 | - | - |
| Bis(2-chloroethoxy)methane | µg/l | 0.05 | NONE | < 0.05 | - | < 0.05 | - | - |
| 1,2,4-Trichlorobenzene | µg/l | 0.05 | NONE | < 0.05 | - | < 0.05 | - | - |

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**Analytical Report Number: 21-70204**
**Project / Site name: Brockhampton West, Havant**

**Your Order No: DS59990**

| Lab Sample Number | | | | 1845270 | 1845271 | 1845272 | 1845273 | 1845274 |
|---|---|---|---|---|---|---|---|---|
| Sample Reference | | | | RO104 (S) | RO104 (D) | RO105 (S) | RO105 (D) | RO106 (S) |
| Sample Number | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Depth (m) | | | | 9.00 | 16.50 | 10.00 | 14.50 | 12.50 |
| Date Sampled | | | | 20/04/2021 | 20/04/2021 | 20/04/2021 | 20/04/2021 | 20/04/2021 |
| Time Taken | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| **Analytical Parameter (Water Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | | | | | |
| Naphthalene | µg/l | 0.01 | ISO 17025 | 0.43 | - | < 0.01 | - | - |
| 2,4-Dichlorophenol | µg/l | 0.05 | NONE | < 0.05 | - | < 0.05 | - | - |
| 4-Chloroaniline | µg/l | 0.05 | NONE | < 0.05 | - | < 0.05 | - | - |
| Hexachlorobutadiene | µg/l | 0.05 | NONE | < 0.05 | - | < 0.05 | - | - |
| 4-Chloro-3-methylphenol | µg/l | 0.05 | NONE | < 0.05 | - | < 0.05 | - | - |
| 2,4,6-Trichlorophenol | µg/l | 0.05 | NONE | < 0.05 | - | < 0.05 | - | - |
| 2,4,5-Trichlorophenol | µg/l | 0.05 | NONE | < 0.05 | - | < 0.05 | - | - |
| 2-Methylnaphthalene | µg/l | 0.05 | NONE | 0.71 | - | < 0.05 | - | - |
| 2-Chloronaphthalene | µg/l | 0.05 | NONE | < 0.05 | - | < 0.05 | - | - |
| Dimethylphthalate | µg/l | 0.05 | NONE | < 0.05 | - | < 0.05 | - | - |
| 2,6-Dinitrotoluene | µg/l | 0.05 | NONE | < 0.05 | - | < 0.05 | - | - |
| Acenaphthylene | µg/l | 0.01 | ISO 17025 | < 0.01 | - | < 0.01 | - | - |
| Acenaphthene | µg/l | 0.01 | ISO 17025 | 0.67 | - | < 0.01 | - | - |
| 2,4-Dinitrotoluene | µg/l | 0.05 | NONE | < 0.05 | - | < 0.05 | - | - |
| Dibenzofuran | µg/l | 0.05 | NONE | < 0.05 | - | < 0.05 | - | - |
| 4-Chlorophenyl phenyl ether | µg/l | 0.05 | NONE | < 0.05 | - | < 0.05 | - | - |
| Diethyl phthalate | µg/l | 0.05 | NONE | < 0.05 | - | < 0.05 | - | - |
| 4-Nitroaniline | µg/l | 0.05 | NONE | < 0.05 | - | < 0.05 | - | - |
| Fluorene | µg/l | 0.01 | ISO 17025 | 0.47 | - | < 0.01 | - | - |
| Azobenzene | µg/l | 0.05 | NONE | < 0.05 | - | < 0.05 | - | - |
| Bromophenyl phenyl ether | µg/l | 0.05 | NONE | < 0.05 | - | < 0.05 | - | - |
| Hexachlorobenzene | µg/l | 0.05 | NONE | < 0.05 | - | < 0.05 | - | - |
| Phenanthrene | µg/l | 0.01 | ISO 17025 | 0.37 | - | < 0.01 | - | - |
| Anthracene | µg/l | 0.01 | ISO 17025 | < 0.01 | - | < 0.01 | - | - |
| Carbazole | µg/l | 0.05 | NONE | < 0.05 | - | < 0.05 | - | - |
| Dibutyl phthalate | µg/l | 0.05 | NONE | < 0.05 | - | < 0.05 | - | - |
| Anthraquinone | µg/l | 0.05 | NONE | < 0.05 | - | < 0.05 | - | - |
| Fluoranthene | µg/l | 0.01 | ISO 17025 | < 0.01 | - | < 0.01 | - | - |
| Pyrene | µg/l | 0.01 | ISO 17025 | < 0.01 | - | < 0.01 | - | - |
| Butyl benzyl phthalate | µg/l | 0.05 | NONE | < 0.05 | - | < 0.05 | - | - |
| Benzo(a)anthracene | µg/l | 0.01 | ISO 17025 | < 0.01 | - | < 0.01 | - | - |
| Chrysene | µg/l | 0.01 | ISO 17025 | < 0.01 | - | < 0.01 | - | - |
| Benzo(b)fluoranthene | µg/l | 0.01 | ISO 17025 | < 0.01 | - | < 0.01 | - | - |
| Benzo(k)fluoranthene | µg/l | 0.01 | ISO 17025 | < 0.01 | - | < 0.01 | - | - |
| Benzo(a)pyrene | µg/l | 0.01 | ISO 17025 | < 0.01 | - | < 0.01 | - | - |
| Indeno(1,2,3-cd)pyrene | µg/l | 0.01 | ISO 17025 | < 0.01 | - | < 0.01 | - | - |
| Dibenz(a,h)anthracene | µg/l | 0.01 | ISO 17025 | < 0.01 | - | < 0.01 | - | - |
| Benzo(ghi)perylene | µg/l | 0.01 | ISO 17025 | < 0.01 | - | < 0.01 | - | - |
| 3&4-Methylphenol | µg/l | 0.1 | NONE | 15 | - | < 0.10 | - | - |

**Microbiological (Subcontracted)**

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| E. Coli | | 1 | NONE | - | - | - | - | - |

U/S = Unsuitable Sample  I/S = Insufficient Sample

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The results included within the report relate only to the sample(s) submitted for testing.

**Analytical Report Number: 21-70204**
**Project / Site name: Brockhampton West, Havant**

**Your Order No: DS59990**

| Lab Sample Number | | | | 1845275 | 1845276 | 1845277 | 1845278 | 1845279 |
|---|---|---|---|---|---|---|---|---|
| Sample Reference | | | | RO106 (D) | RO107 | RO108 | RO109 | DS101 |
| Sample Number | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Depth (m) | | | | 16.00 | 15.00 | 13.00 | 14.50 | 9.50 |
| Date Sampled | | | | 20/04/2021 | 20/04/2021 | 20/04/2021 | 20/04/2021 | 20/04/2021 |
| Time Taken | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| **Analytical Parameter (Water Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | | | | | |
| **General Inorganics** | | | | | | | | |
| pH | pH Units | N/A | ISO 17025 | 7.1 | 7.3 | 7.0 | 7.0 | 6.9 |
| Sulphate as SO4 | µg/l | 45 | ISO 17025 | 48500 | 217000 | 51400 | 20600 | 9950 |
| Total Sulphur | µg/l | 15 | NONE | 16000 | - | - | - | - |
| Chloride | mg/l | 0.15 | ISO 17025 | 540 | 2300 | 370 | 120 | 480 |
| Total Phosphate as P | µg/l | 20 | ISO 17025 | 36 | - | - | - | - |
| Ammoniacal Nitrogen as NH3 | µg/l | 15 | ISO 17025 | 23000 | 120 | 43000 | 19000 | 85000 |
| Nitrate as N | mg/l | 0.01 | ISO 17025 | 0.20 | 2.40 | 0.23 | 5.80 | 0.27 |
| Nitrate as NO3 | mg/l | 0.05 | ISO 17025 | 0.88 | 10.6 | 1.04 | 25.7 | 1.19 |
| Nitrite as N | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | 13 | 120 | < 1.0 |
| Nitrite as NO2 | µg/l | 5 | ISO 17025 | < 5.0 | < 5.0 | 44 | 380 | < 5.0 |
| Chemical Oxygen Demand (Total) | mg/l | 2 | ISO 17025 | - | - | - | - | - |
| BOD (Biochemical Oxygen Demand) (Total) - PL | mg/l | 1 | ISO 17025 | - | - | - | - | - |
| **Total Phenols** | | | | | | | | |
| Total Phenols (monohydric) | µg/l | 10 | ISO 17025 | - | - | - | - | - |
| **Speciated PAHs** | | | | | | | | |
| Naphthalene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Acenaphthylene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Acenaphthene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Fluorene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Phenanthrene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Anthracene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Fluoranthene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Pyrene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Benzo(a)anthracene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Chrysene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Benzo(b)fluoranthene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Benzo(k)fluoranthene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Benzo(a)pyrene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Indeno(1,2,3-cd)pyrene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Dibenz(a,h)anthracene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Benzo(ghi)perylene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| **Total PAH** | | | | | | | | |
| Total EPA-16 PAHs | µg/l | 0.16 | ISO 17025 | < 0.16 | < 0.16 | < 0.16 | < 0.16 | < 0.16 |
| **Heavy Metals / Metalloids** | | | | | | | | |
| Chromium (hexavalent) | µg/l | 5 | ISO 17025 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 |
| Magnesium (dissolved) | mg/l | 0.005 | ISO 17025 | 52 | - | - | - | - |
| Arsenic (dissolved) | µg/l | 0.15 | ISO 17025 | 5.53 | 8.71 | 4.03 | 1.17 | 5.06 |
| Cadmium (dissolved) | µg/l | 0.02 | ISO 17025 | < 0.02 | 0.02 | < 0.02 | < 0.02 | < 0.02 |
| Chromium (dissolved) | µg/l | 0.2 | ISO 17025 | 5.0 | 4.1 | 6.9 | 4.2 | 5.6 |
| Copper (dissolved) | µg/l | 0.5 | ISO 17025 | 4.3 | 16 | 6.1 | 5.1 | 4.6 |
| Lead (dissolved) | µg/l | 0.2 | ISO 17025 | < 0.2 | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Mercury (dissolved) | µg/l | 0.05 | ISO 17025 | < 0.05 | 0.83 | < 0.05 | < 0.05 | < 0.05 |
| Nickel (dissolved) | µg/l | 0.5 | ISO 17025 | 40 | 24 | 24 | 14 | 23 |
| Zinc (dissolved) | µg/l | 0.5 | ISO 17025 | 6.1 | 8.8 | 6.1 | 4.9 | 3.2 |

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**Analytical Report Number: 21-70204**
**Project / Site name: Brockhampton West, Havant**

**Your Order No: DS59990**

| Lab Sample Number | | | | 1845275 | 1845276 | 1845277 | 1845278 | 1845279 |
|---|---|---|---|---|---|---|---|---|
| Sample Reference | | | | RO106 (D) | RO107 | RO108 | RO109 | DS101 |
| Sample Number | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Depth (m) | | | | 16.00 | 15.00 | 13.00 | 14.50 | 9.50 |
| Date Sampled | | | | 20/04/2021 | 20/04/2021 | 20/04/2021 | 20/04/2021 | 20/04/2021 |
| Time Taken | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| **Analytical Parameter (Water Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | | | | | |
| **Monoaromatics & Oxygenates** | | | | | | | | |
| Benzene | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| Toluene | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| Ethylbenzene | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| p & m-xylene | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| o-xylene | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| MTBE (Methyl Tertiary Butyl Ether) | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| **Petroleum Hydrocarbons** | | | | | | | | |
| TPH-CWG - Aliphatic >C5 - C6 | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| TPH-CWG - Aliphatic >C6 - C8 | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| TPH-CWG - Aliphatic >C8 - C10 | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| Aliphatic >C10 - C12 | µg/l | 10 | ISO 17025 | < 10 | < 10 | < 10 | < 10 | 13 |
| Aliphatic >C12 - C16 | µg/l | 10 | ISO 17025 | 13 | < 10 | < 10 | < 10 | 16 |
| Aliphatic >C16 - C21 | µg/l | 10 | ISO 17025 | < 10 | < 10 | < 10 | < 10 | < 10 |
| Aliphatic >C21 - C35 | µg/l | 10 | ISO 17025 | 110 | < 10 | < 10 | < 10 | 170 |
| Aliphatic >C10 - C35 | µg/l | 10 | ISO 17025 | 120 | < 10 | < 10 | < 10 | 200 |
| TPH-CWG - Aromatic >C5 - C7 | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| TPH-CWG - Aromatic >C7 - C8 | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| TPH-CWG - Aromatic >C8 - C10 | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| Aromatic >C10 - C12 | µg/l | 10 | ISO 17025 | 160 | < 10 | < 10 | < 10 | 140 |
| Aromatic >C12 - C16 | µg/l | 10 | ISO 17025 | 250 | < 10 | < 10 | < 10 | 230 |
| Aromatic >C16 - C21 | µg/l | 10 | ISO 17025 | 150 | < 10 | < 10 | < 10 | 130 |
| Aromatic >C21 - C35 | µg/l | 10 | ISO 17025 | 450 | < 10 | < 10 | < 10 | 480 |
| Aromatic >C10 - C35 | µg/l | 10 | ISO 17025 | 1000 | < 10 | < 10 | < 10 | 980 |
| **VOCs** | | | | | | | | |
| Chloromethane | µg/l | 1 | ISO 17025 | - | < 1.0 | - | - | < 1.0 |
| Chloroethane | µg/l | 1 | ISO 17025 | - | < 1.0 | - | - | < 1.0 |
| Bromomethane | µg/l | 1 | ISO 17025 | - | < 1.0 | - | - | < 1.0 |
| Vinyl Chloride | µg/l | 1 | NONE | - | < 1.0 | - | - | < 1.0 |
| Trichlorofluoromethane | µg/l | 1 | NONE | - | < 1.0 | - | - | < 1.0 |
| 1,1-Dichloroethene | µg/l | 1 | ISO 17025 | - | < 1.0 | - | - | < 1.0 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | µg/l | 1 | ISO 17025 | - | < 1.0 | - | - | < 1.0 |
| Cis-1,2-dichloroethene | µg/l | 1 | ISO 17025 | - | < 1.0 | - | - | < 1.0 |
| MTBE (Methyl Tertiary Butyl Ether) | µg/l | 1 | ISO 17025 | - | < 1.0 | - | - | < 1.0 |
| 1,1-Dichloroethane | µg/l | 1 | ISO 17025 | - | < 1.0 | - | - | < 1.0 |
| 2,2-Dichloropropane | µg/l | 1 | ISO 17025 | - | < 1.0 | - | - | < 1.0 |
| Trichloromethane | µg/l | 1 | ISO 17025 | - | < 1.0 | - | - | < 1.0 |
| 1,1,1-Trichloroethane | µg/l | 1 | ISO 17025 | - | < 1.0 | - | - | < 1.0 |
| 1,2-Dichloroethane | µg/l | 1 | ISO 17025 | - | < 1.0 | - | - | < 1.0 |
| 1,1-Dichloropropene | µg/l | 1 | ISO 17025 | - | < 1.0 | - | - | < 1.0 |
| Trans-1,2-dichloroethene | µg/l | 1 | ISO 17025 | - | < 1.0 | - | - | < 1.0 |
| Benzene | µg/l | 1 | ISO 17025 | - | < 1.0 | - | - | < 1.0 |
| Tetrachloromethane | µg/l | 1 | ISO 17025 | - | < 1.0 | - | - | < 1.0 |
| 1,2-Dichloropropane | µg/l | 1 | ISO 17025 | - | < 1.0 | - | - | < 1.0 |
| Trichloroethene | µg/l | 1 | ISO 17025 | - | < 1.0 | - | - | < 1.0 |
| Dibromomethane | µg/l | 1 | ISO 17025 | - | < 1.0 | - | - | < 1.0 |
| Bromodichloromethane | µg/l | 1 | ISO 17025 | - | < 1.0 | - | - | < 1.0 |

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**Analytical Report Number: 21-70204**
**Project / Site name: Brockhampton West, Havant**

**Your Order No: DS59990**

| Lab Sample Number | | | | 1845275 | 1845276 | 1845277 | 1845278 | 1845279 |
|---|---|---|---|---|---|---|---|---|
| Sample Reference | | | | RO106 (D) | RO107 | RO108 | RO109 | DS101 |
| Sample Number | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Depth (m) | | | | 16.00 | 15.00 | 13.00 | 14.50 | 9.50 |
| Date Sampled | | | | 20/04/2021 | 20/04/2021 | 20/04/2021 | 20/04/2021 | 20/04/2021 |
| Time Taken | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| **Analytical Parameter (Water Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | | | | | |
| Cis-1,3-dichloropropene | µg/l | 1 | ISO 17025 | - | < 1.0 | - | - | < 1.0 |
| Trans-1,3-dichloropropene | µg/l | 1 | ISO 17025 | - | < 1.0 | - | - | < 1.0 |
| Toluene | µg/l | 1 | ISO 17025 | - | < 1.0 | - | - | < 1.0 |
| 1,1,2-Trichloroethane | µg/l | 1 | ISO 17025 | - | < 1.0 | - | - | < 1.0 |
| 1,3-Dichloropropane | µg/l | 1 | ISO 17025 | - | < 1.0 | - | - | < 1.0 |
| Dibromochloromethane | µg/l | 1 | ISO 17025 | - | < 1.0 | - | - | < 1.0 |
| Tetrachloroethene | µg/l | 1 | ISO 17025 | - | < 1.0 | - | - | < 1.0 |
| 1,2-Dibromoethane | µg/l | 1 | ISO 17025 | - | < 1.0 | - | - | < 1.0 |
| Chlorobenzene | µg/l | 1 | ISO 17025 | - | < 1.0 | - | - | < 1.0 |
| 1,1,1,2-Tetrachloroethane | µg/l | 1 | ISO 17025 | - | < 1.0 | - | - | < 1.0 |
| Ethylbenzene | µg/l | 1 | ISO 17025 | - | < 1.0 | - | - | < 1.0 |
| p & m-Xylene | µg/l | 1 | ISO 17025 | - | < 1.0 | - | - | < 1.0 |
| Styrene | µg/l | 1 | ISO 17025 | - | < 1.0 | - | - | < 1.0 |
| Tribromomethane | µg/l | 1 | ISO 17025 | - | < 1.0 | - | - | < 1.0 |
| o-Xylene | µg/l | 1 | ISO 17025 | - | < 1.0 | - | - | < 1.0 |
| 1,1,2,2-Tetrachloroethane | µg/l | 1 | ISO 17025 | - | < 1.0 | - | - | < 1.0 |
| Isopropylbenzene | µg/l | 1 | ISO 17025 | - | < 1.0 | - | - | < 1.0 |
| Bromobenzene | µg/l | 1 | ISO 17025 | - | < 1.0 | - | - | < 1.0 |
| n-Propylbenzene | µg/l | 1 | ISO 17025 | - | < 1.0 | - | - | < 1.0 |
| 2-Chlorotoluene | µg/l | 1 | ISO 17025 | - | < 1.0 | - | - | < 1.0 |
| 4-Chlorotoluene | µg/l | 1 | ISO 17025 | - | < 1.0 | - | - | < 1.0 |
| 1,3,5-Trimethylbenzene | µg/l | 1 | ISO 17025 | - | < 1.0 | - | - | < 1.0 |
| tert-Butylbenzene | µg/l | 1 | ISO 17025 | - | < 1.0 | - | - | < 1.0 |
| 1,2,4-Trimethylbenzene | µg/l | 1 | ISO 17025 | - | < 1.0 | - | - | < 1.0 |
| sec-Butylbenzene | µg/l | 1 | ISO 17025 | - | < 1.0 | - | - | < 1.0 |
| 1,3-Dichlorobenzene | µg/l | 1 | ISO 17025 | - | < 1.0 | - | - | < 1.0 |
| p-Isopropyltoluene | µg/l | 1 | ISO 17025 | - | < 1.0 | - | - | < 1.0 |
| 1,2-Dichlorobenzene | µg/l | 1 | ISO 17025 | - | < 1.0 | - | - | < 1.0 |
| 1,4-Dichlorobenzene | µg/l | 1 | ISO 17025 | - | < 1.0 | - | - | < 1.0 |
| Butylbenzene | µg/l | 1 | ISO 17025 | - | < 1.0 | - | - | < 1.0 |
| 1,2-Dibromo-3-chloropropane | µg/l | 1 | ISO 17025 | - | < 1.0 | - | - | < 1.0 |
| 1,2,4-Trichlorobenzene | µg/l | 1 | ISO 17025 | - | < 1.0 | - | - | < 1.0 |
| Hexachlorobutadiene | µg/l | 1 | ISO 17025 | - | < 1.0 | - | - | < 1.0 |
| 1,2,3-Trichlorobenzene | µg/l | 1 | ISO 17025 | - | < 1.0 | - | - | < 1.0 |

**SVOCs**

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Aniline | µg/l | 0.05 | NONE | - | < 0.05 | - | - | < 0.05 |
| Phenol | µg/l | 0.05 | NONE | - | < 0.05 | - | - | < 0.05 |
| 2-Chlorophenol | µg/l | 0.05 | NONE | - | < 0.05 | - | - | < 0.05 |
| Bis(2-chloroethyl)ether | µg/l | 0.05 | NONE | - | < 0.05 | - | - | < 0.05 |
| 1,3-Dichlorobenzene | µg/l | 0.05 | NONE | - | < 0.05 | - | - | < 0.05 |
| 1,2-Dichlorobenzene | µg/l | 0.05 | NONE | - | < 0.05 | - | - | < 0.05 |
| 1,4-Dichlorobenzene | µg/l | 0.05 | NONE | - | < 0.05 | - | - | < 0.05 |
| Bis(2-chloroisopropyl)ether | µg/l | 0.05 | NONE | - | < 0.05 | - | - | < 0.05 |
| 2-Methylphenol | µg/l | 0.05 | NONE | - | < 0.05 | - | - | < 0.05 |
| Hexachloroethane | µg/l | 0.05 | NONE | - | < 0.05 | - | - | < 0.05 |
| Nitrobenzene | µg/l | 0.05 | NONE | - | < 0.05 | - | - | < 0.05 |
| 4-Methylphenol | µg/l | 0.05 | NONE | - | < 0.05 | - | - | < 0.05 |
| Isophorone | µg/l | 0.05 | NONE | - | < 0.05 | - | - | < 0.05 |
| 2-Nitrophenol | µg/l | 0.05 | NONE | - | < 0.05 | - | - | < 0.05 |
| 2,4-Dimethylphenol | µg/l | 0.05 | NONE | - | < 0.05 | - | - | < 0.05 |
| Bis(2-chloroethoxy)methane | µg/l | 0.05 | NONE | - | < 0.05 | - | - | < 0.05 |
| 1,2,4-Trichlorobenzene | µg/l | 0.05 | NONE | - | < 0.05 | - | - | < 0.05 |

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**Analytical Report Number: 21-70204**
**Project / Site name: Brockhampton West, Havant**

**Your Order No: DS59990**

| Lab Sample Number | | | | 1845275 | 1845276 | 1845277 | 1845278 | 1845279 |
|---|---|---|---|---|---|---|---|---|
| Sample Reference | | | | RO106 (D) | RO107 | RO108 | RO109 | DS101 |
| Sample Number | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Depth (m) | | | | 16.00 | 15.00 | 13.00 | 14.50 | 9.50 |
| Date Sampled | | | | 20/04/2021 | 20/04/2021 | 20/04/2021 | 20/04/2021 | 20/04/2021 |
| Time Taken | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| **Analytical Parameter (Water Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | | | | | |
| Naphthalene | µg/l | 0.01 | ISO 17025 | - | < 0.01 | - | - | < 0.01 |
| 2,4-Dichlorophenol | µg/l | 0.05 | NONE | - | < 0.05 | - | - | < 0.05 |
| 4-Chloroaniline | µg/l | 0.05 | NONE | - | < 0.05 | - | - | < 0.05 |
| Hexachlorobutadiene | µg/l | 0.05 | NONE | - | < 0.05 | - | - | < 0.05 |
| 4-Chloro-3-methylphenol | µg/l | 0.05 | NONE | - | < 0.05 | - | - | < 0.05 |
| 2,4,6-Trichlorophenol | µg/l | 0.05 | NONE | - | < 0.05 | - | - | < 0.05 |
| 2,4,5-Trichlorophenol | µg/l | 0.05 | NONE | - | < 0.05 | - | - | < 0.05 |
| 2-Methylnaphthalene | µg/l | 0.05 | NONE | - | < 0.05 | - | - | < 0.05 |
| 2-Chloronaphthalene | µg/l | 0.05 | NONE | - | < 0.05 | - | - | < 0.05 |
| Dimethylphthalate | µg/l | 0.05 | NONE | - | < 0.05 | - | - | < 0.05 |
| 2,6-Dinitrotoluene | µg/l | 0.05 | NONE | - | < 0.05 | - | - | < 0.05 |
| Acenaphthylene | µg/l | 0.01 | ISO 17025 | - | < 0.01 | - | - | < 0.01 |
| Acenaphthene | µg/l | 0.01 | ISO 17025 | - | < 0.01 | - | - | < 0.01 |
| 2,4-Dinitrotoluene | µg/l | 0.05 | NONE | - | < 0.05 | - | - | < 0.05 |
| Dibenzofuran | µg/l | 0.05 | NONE | - | < 0.05 | - | - | < 0.05 |
| 4-Chlorophenyl phenyl ether | µg/l | 0.05 | NONE | - | < 0.05 | - | - | < 0.05 |
| Diethyl phthalate | µg/l | 0.05 | NONE | - | < 0.05 | - | - | < 0.05 |
| 4-Nitroaniline | µg/l | 0.05 | NONE | - | < 0.05 | - | - | < 0.05 |
| Fluorene | µg/l | 0.01 | ISO 17025 | - | < 0.01 | - | - | < 0.01 |
| Azobenzene | µg/l | 0.05 | NONE | - | < 0.05 | - | - | < 0.05 |
| Bromophenyl phenyl ether | µg/l | 0.05 | NONE | - | < 0.05 | - | - | < 0.05 |
| Hexachlorobenzene | µg/l | 0.05 | NONE | - | < 0.05 | - | - | < 0.05 |
| Phenanthrene | µg/l | 0.01 | ISO 17025 | - | < 0.01 | - | - | < 0.01 |
| Anthracene | µg/l | 0.01 | ISO 17025 | - | < 0.01 | - | - | < 0.01 |
| Carbazole | µg/l | 0.05 | NONE | - | < 0.05 | - | - | < 0.05 |
| Dibutyl phthalate | µg/l | 0.05 | NONE | - | < 0.05 | - | - | < 0.05 |
| Anthraquinone | µg/l | 0.05 | NONE | - | < 0.05 | - | - | < 0.05 |
| Fluoranthene | µg/l | 0.01 | ISO 17025 | - | < 0.01 | - | - | < 0.01 |
| Pyrene | µg/l | 0.01 | ISO 17025 | - | < 0.01 | - | - | < 0.01 |
| Butyl benzyl phthalate | µg/l | 0.05 | NONE | - | < 0.05 | - | - | < 0.05 |
| Benzo(a)anthracene | µg/l | 0.01 | ISO 17025 | - | < 0.01 | - | - | < 0.01 |
| Chrysene | µg/l | 0.01 | ISO 17025 | - | < 0.01 | - | - | < 0.01 |
| Benzo(b)fluoranthene | µg/l | 0.01 | ISO 17025 | - | < 0.01 | - | - | < 0.01 |
| Benzo(k)fluoranthene | µg/l | 0.01 | ISO 17025 | - | < 0.01 | - | - | < 0.01 |
| Benzo(a)pyrene | µg/l | 0.01 | ISO 17025 | - | < 0.01 | - | - | < 0.01 |
| Indeno(1,2,3-cd)pyrene | µg/l | 0.01 | ISO 17025 | - | < 0.01 | - | - | < 0.01 |
| Dibenz(a,h)anthracene | µg/l | 0.01 | ISO 17025 | - | < 0.01 | - | - | < 0.01 |
| Benzo(ghi)perylene | µg/l | 0.01 | ISO 17025 | - | < 0.01 | - | - | < 0.01 |
| 3&4-Methylphenol | µg/l | 0.1 | NONE | - | < 0.10 | - | - | < 0.10 |

**Microbiological (Subcontracted)**

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| E. Coli | | 1 | NONE | - | - | - | - | - |

U/S = Unsuitable Sample  I/S = Insufficient Sample

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The results included within the report relate only to the sample(s) submitted for testing.

**Analytical Report Number: 21-70204**
**Project / Site name: Brockhampton West, Havant**

**Your Order No: DS59990**

| Lab Sample Number | | | | 1845280 | 1845281 | 1845282 | 1845283 | 1845284 |
|---|---|---|---|---|---|---|---|---|
| Sample Reference | | | | DS102 | CP02A (S) | CP03 (S) | CP05 | Upstream High Tide |
| Sample Number | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Depth (m) | | | | 11.00 | 9.00 | 5.00 | 8.50 | None Supplied |
| Date Sampled | | | | 20/04/2021 | 20/04/2021 | 20/04/2021 | 20/04/2021 | 20/04/2021 |
| Time Taken | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| **Analytical Parameter (Water Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | | | | | |
| **General Inorganics** | | | | | | | | |
| pH | pH Units | N/A | ISO 17025 | 6.8 | 7.0 | 6.7 | 6.7 | 7.4 |
| Sulphate as SO4 | µg/l | 45 | ISO 17025 | 12800 | 47300 | 8090 | 7630 | 128000 |
| Total Sulphur | µg/l | 15 | NONE | - | - | - | - | - |
| Chloride | mg/l | 0.15 | ISO 17025 | 2900 | 580 | 170 | - | 680 |
| Total Phosphate as P | µg/l | 20 | ISO 17025 | - | - | - | - | < 20 |
| Ammoniacal Nitrogen as NH3 | µg/l | 15 | ISO 17025 | 150000 | 46000 | 26000 | - | 24 |
| Nitrate as N | mg/l | 0.01 | ISO 17025 | 0.66 | 2.67 | 0.35 | - | 7.78 |
| Nitrate as NO3 | mg/l | 0.05 | ISO 17025 | 2.90 | 11.8 | 1.56 | - | 34.4 |
| Nitrite as N | µg/l | 1 | ISO 17025 | < 1.0 | 120 | < 1.0 | - | < 1.0 |
| Nitrite as NO2 | µg/l | 5 | ISO 17025 | < 5.0 | 380 | < 5.0 | - | < 5.0 |
| Chemical Oxygen Demand (Total) | mg/l | 2 | ISO 17025 | - | - | - | - | 7.5 |
| BOD (Biochemical Oxygen Demand) (Total) - PL | mg/l | 1 | ISO 17025 | - | - | - | - | < 1.0 |
| **Total Phenols** | | | | | | | | |
| Total Phenols (monohydric) | µg/l | 10 | ISO 17025 | - | - | < 10 | - | < 10 |
| **Speciated PAHs** | | | | | | | | |
| Naphthalene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Acenaphthylene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Acenaphthene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | 2.33 | < 0.01 |
| Fluorene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | 1.22 | < 0.01 |
| Phenanthrene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Anthracene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Fluoranthene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Pyrene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Benzo(a)anthracene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Chrysene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Benzo(b)fluoranthene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Benzo(k)fluoranthene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Benzo(a)pyrene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Indeno(1,2,3-cd)pyrene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Dibenz(a,h)anthracene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Benzo(ghi)perylene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| **Total PAH** | | | | | | | | |
| Total EPA-16 PAHs | µg/l | 0.16 | ISO 17025 | < 0.16 | < 0.16 | < 0.16 | 3.55 | < 0.16 |
| **Heavy Metals / Metalloids** | | | | | | | | |
| Chromium (hexavalent) | µg/l | 5 | ISO 17025 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 |
| Magnesium (dissolved) | mg/l | 0.005 | ISO 17025 | - | - | - | - | - |
| Arsenic (dissolved) | µg/l | 0.15 | ISO 17025 | 7.40 | 4.15 | 1.71 | 1.10 | 3.87 |
| Cadmium (dissolved) | µg/l | 0.02 | ISO 17025 | < 0.02 | < 0.02 | < 0.02 | < 0.02 | < 0.02 |
| Chromium (dissolved) | µg/l | 0.2 | ISO 17025 | 4.7 | 11 | 10 | 6.2 | 2.9 |
| Copper (dissolved) | µg/l | 0.5 | ISO 17025 | 8.9 | 5.6 | 3.0 | 9.0 | 5.8 |
| Lead (dissolved) | µg/l | 0.2 | ISO 17025 | < 0.2 | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Mercury (dissolved) | µg/l | 0.05 | ISO 17025 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Nickel (dissolved) | µg/l | 0.5 | ISO 17025 | 6.9 | 11 | 3.0 | 4.1 | 2.4 |
| Zinc (dissolved) | µg/l | 0.5 | ISO 17025 | 2.0 | 6.9 | 3.9 | 1.8 | 2.7 |

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The results included within the report relate only to the sample(s) submitted for testing.

**Analytical Report Number: 21-70204**
**Project / Site name: Brockhampton West, Havant**

**Your Order No: DS59990**

| Lab Sample Number | | | | 1845280 | 1845281 | 1845282 | 1845283 | 1845284 |
|---|---|---|---|---|---|---|---|---|
| Sample Reference | | | | DS102 | CP02A (S) | CP03 (S) | CP05 | Upstream High Tide |
| Sample Number | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Depth (m) | | | | 11.00 | 9.00 | 5.00 | 8.50 | None Supplied |
| Date Sampled | | | | 20/04/2021 | 20/04/2021 | 20/04/2021 | 20/04/2021 | 20/04/2021 |
| Time Taken | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| **Analytical Parameter (Water Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | | | | | |
| **Monoaromatics & Oxygenates** | | | | | | | | |
| Benzene | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| Toluene | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| Ethylbenzene | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| p & m-xylene | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| o-xylene | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| MTBE (Methyl Tertiary Butyl Ether) | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| **Petroleum Hydrocarbons** | | | | | | | | |
| TPH-CWG - Aliphatic >C5 - C6 | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| TPH-CWG - Aliphatic >C6 - C8 | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| TPH-CWG - Aliphatic >C8 - C10 | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| Aliphatic >C10 - C12 | µg/l | 10 | ISO 17025 | 12 | < 10 | < 10 | 16 | < 10 |
| Aliphatic >C12 - C16 | µg/l | 10 | ISO 17025 | 14 | < 10 | < 10 | 24 | < 10 |
| Aliphatic >C16 - C21 | µg/l | 10 | ISO 17025 | < 10 | < 10 | < 10 | 18 | < 10 |
| Aliphatic >C21 - C35 | µg/l | 10 | ISO 17025 | 130 | 85 | < 10 | 370 | < 10 |
| Aliphatic >C10 - C35 | µg/l | 10 | ISO 17025 | 150 | 85 | < 10 | 430 | < 10 |
| TPH-CWG - Aromatic >C5 - C7 | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| TPH-CWG - Aromatic >C7 - C8 | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| TPH-CWG - Aromatic >C8 - C10 | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| Aromatic >C10 - C12 | µg/l | 10 | ISO 17025 | 350 | 90 | < 10 | 130 | < 10 |
| Aromatic >C12 - C16 | µg/l | 10 | ISO 17025 | 400 | 170 | < 10 | 200 | < 10 |
| Aromatic >C16 - C21 | µg/l | 10 | ISO 17025 | 200 | 100 | < 10 | 99 | < 10 |
| Aromatic >C21 - C35 | µg/l | 10 | ISO 17025 | 530 | 260 | < 10 | 520 | < 10 |
| Aromatic >C10 - C35 | µg/l | 10 | ISO 17025 | 1500 | 620 | < 10 | 950 | < 10 |
| **VOCs** | | | | | | | | |
| Chloromethane | µg/l | 1 | ISO 17025 | - | < 1.0 | < 1.0 | - | - |
| Chloroethane | µg/l | 1 | ISO 17025 | - | < 1.0 | < 1.0 | - | - |
| Bromomethane | µg/l | 1 | ISO 17025 | - | < 1.0 | < 1.0 | - | - |
| Vinyl Chloride | µg/l | 1 | NONE | - | < 1.0 | < 1.0 | - | - |
| Trichlorofluoromethane | µg/l | 1 | NONE | - | < 1.0 | < 1.0 | - | - |
| 1,1-Dichloroethene | µg/l | 1 | ISO 17025 | - | < 1.0 | < 1.0 | - | - |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | µg/l | 1 | ISO 17025 | - | < 1.0 | < 1.0 | - | - |
| Cis-1,2-dichloroethene | µg/l | 1 | ISO 17025 | - | < 1.0 | < 1.0 | - | - |
| MTBE (Methyl Tertiary Butyl Ether) | µg/l | 1 | ISO 17025 | - | < 1.0 | < 1.0 | - | - |
| 1,1-Dichloroethane | µg/l | 1 | ISO 17025 | - | < 1.0 | < 1.0 | - | - |
| 2,2-Dichloropropane | µg/l | 1 | ISO 17025 | - | < 1.0 | < 1.0 | - | - |
| Trichloromethane | µg/l | 1 | ISO 17025 | - | < 1.0 | < 1.0 | - | - |
| 1,1,1-Trichloroethane | µg/l | 1 | ISO 17025 | - | < 1.0 | < 1.0 | - | - |
| 1,2-Dichloroethane | µg/l | 1 | ISO 17025 | - | < 1.0 | < 1.0 | - | - |
| 1,1-Dichloropropene | µg/l | 1 | ISO 17025 | - | < 1.0 | < 1.0 | - | - |
| Trans-1,2-dichloroethene | µg/l | 1 | ISO 17025 | - | < 1.0 | < 1.0 | - | - |
| Benzene | µg/l | 1 | ISO 17025 | - | < 1.0 | < 1.0 | - | - |
| Tetrachloromethane | µg/l | 1 | ISO 17025 | - | < 1.0 | < 1.0 | - | - |
| 1,2-Dichloropropane | µg/l | 1 | ISO 17025 | - | < 1.0 | < 1.0 | - | - |
| Trichloroethene | µg/l | 1 | ISO 17025 | - | < 1.0 | < 1.0 | - | - |
| Dibromomethane | µg/l | 1 | ISO 17025 | - | < 1.0 | < 1.0 | - | - |
| Bromodichloromethane | µg/l | 1 | ISO 17025 | - | < 1.0 | < 1.0 | - | - |

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The results included within the report relate only to the sample(s) submitted for testing.

**Analytical Report Number: 21-70204**
**Project / Site name: Brockhampton West, Havant**

**Your Order No: DS59990**

| **Lab Sample Number** | | | | 1845280 | 1845281 | 1845282 | 1845283 | 1845284 |
|---|---|---|---|---|---|---|---|---|
| **Sample Reference** | | | | DS102 | CP02A (S) | CP03 (S) | CP05 | Upstream High Tide |
| **Sample Number** | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| **Depth (m)** | | | | 11.00 | 9.00 | 5.00 | 8.50 | None Supplied |
| **Date Sampled** | | | | 20/04/2021 | 20/04/2021 | 20/04/2021 | 20/04/2021 | 20/04/2021 |
| **Time Taken** | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| **Analytical Parameter (Water Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | | | | | |
| Cis-1,3-dichloropropene | µg/l | 1 | ISO 17025 | - | < 1.0 | < 1.0 | - | - |
| Trans-1,3-dichloropropene | µg/l | 1 | ISO 17025 | - | < 1.0 | < 1.0 | - | - |
| Toluene | µg/l | 1 | ISO 17025 | - | < 1.0 | < 1.0 | - | - |
| 1,1,2-Trichloroethane | µg/l | 1 | ISO 17025 | - | < 1.0 | < 1.0 | - | - |
| 1,3-Dichloropropane | µg/l | 1 | ISO 17025 | - | < 1.0 | < 1.0 | - | - |
| Dibromochloromethane | µg/l | 1 | ISO 17025 | - | < 1.0 | < 1.0 | - | - |
| Tetrachloroethene | µg/l | 1 | ISO 17025 | - | < 1.0 | < 1.0 | - | - |
| 1,2-Dibromoethane | µg/l | 1 | ISO 17025 | - | < 1.0 | < 1.0 | - | - |
| Chlorobenzene | µg/l | 1 | ISO 17025 | - | < 1.0 | < 1.0 | - | - |
| 1,1,1,2-Tetrachloroethane | µg/l | 1 | ISO 17025 | - | < 1.0 | < 1.0 | - | - |
| Ethylbenzene | µg/l | 1 | ISO 17025 | - | < 1.0 | < 1.0 | - | - |
| p & m-Xylene | µg/l | 1 | ISO 17025 | - | < 1.0 | < 1.0 | - | - |
| Styrene | µg/l | 1 | ISO 17025 | - | < 1.0 | < 1.0 | - | - |
| Tribromomethane | µg/l | 1 | ISO 17025 | - | < 1.0 | < 1.0 | - | - |
| o-Xylene | µg/l | 1 | ISO 17025 | - | < 1.0 | < 1.0 | - | - |
| 1,1,2,2-Tetrachloroethane | µg/l | 1 | ISO 17025 | - | < 1.0 | < 1.0 | - | - |
| Isopropylbenzene | µg/l | 1 | ISO 17025 | - | < 1.0 | < 1.0 | - | - |
| Bromobenzene | µg/l | 1 | ISO 17025 | - | < 1.0 | < 1.0 | - | - |
| n-Propylbenzene | µg/l | 1 | ISO 17025 | - | < 1.0 | < 1.0 | - | - |
| 2-Chlorotoluene | µg/l | 1 | ISO 17025 | - | < 1.0 | < 1.0 | - | - |
| 4-Chlorotoluene | µg/l | 1 | ISO 17025 | - | < 1.0 | < 1.0 | - | - |
| 1,3,5-Trimethylbenzene | µg/l | 1 | ISO 17025 | - | < 1.0 | < 1.0 | - | - |
| tert-Butylbenzene | µg/l | 1 | ISO 17025 | - | < 1.0 | < 1.0 | - | - |
| 1,2,4-Trimethylbenzene | µg/l | 1 | ISO 17025 | - | < 1.0 | < 1.0 | - | - |
| sec-Butylbenzene | µg/l | 1 | ISO 17025 | - | < 1.0 | < 1.0 | - | - |
| 1,3-Dichlorobenzene | µg/l | 1 | ISO 17025 | - | < 1.0 | < 1.0 | - | - |
| p-Isopropyltoluene | µg/l | 1 | ISO 17025 | - | < 1.0 | < 1.0 | - | - |
| 1,2-Dichlorobenzene | µg/l | 1 | ISO 17025 | - | < 1.0 | < 1.0 | - | - |
| 1,4-Dichlorobenzene | µg/l | 1 | ISO 17025 | - | < 1.0 | < 1.0 | - | - |
| Butylbenzene | µg/l | 1 | ISO 17025 | - | < 1.0 | < 1.0 | - | - |
| 1,2-Dibromo-3-chloropropane | µg/l | 1 | ISO 17025 | - | < 1.0 | < 1.0 | - | - |
| 1,2,4-Trichlorobenzene | µg/l | 1 | ISO 17025 | - | < 1.0 | < 1.0 | - | - |
| Hexachlorobutadiene | µg/l | 1 | ISO 17025 | - | < 1.0 | < 1.0 | - | - |
| 1,2,3-Trichlorobenzene | µg/l | 1 | ISO 17025 | - | < 1.0 | < 1.0 | - | - |
| **SVOCs** | | | | | | | | |
| Aniline | µg/l | 0.05 | NONE | - | < 0.05 | < 0.05 | - | - |
| Phenol | µg/l | 0.05 | NONE | - | < 0.05 | < 0.05 | - | - |
| 2-Chlorophenol | µg/l | 0.05 | NONE | - | < 0.05 | < 0.05 | - | - |
| Bis(2-chloroethyl)ether | µg/l | 0.05 | NONE | - | < 0.05 | < 0.05 | - | - |
| 1,3-Dichlorobenzene | µg/l | 0.05 | NONE | - | < 0.05 | < 0.05 | - | - |
| 1,2-Dichlorobenzene | µg/l | 0.05 | NONE | - | < 0.05 | < 0.05 | - | - |
| 1,4-Dichlorobenzene | µg/l | 0.05 | NONE | - | < 0.05 | < 0.05 | - | - |
| Bis(2-chloroisopropyl)ether | µg/l | 0.05 | NONE | - | < 0.05 | < 0.05 | - | - |
| 2-Methylphenol | µg/l | 0.05 | NONE | - | < 0.05 | < 0.05 | - | - |
| Hexachloroethane | µg/l | 0.05 | NONE | - | < 0.05 | < 0.05 | - | - |
| Nitrobenzene | µg/l | 0.05 | NONE | - | < 0.05 | < 0.05 | - | - |
| 4-Methylphenol | µg/l | 0.05 | NONE | - | < 0.05 | < 0.05 | - | - |
| Isophorone | µg/l | 0.05 | NONE | - | < 0.05 | < 0.05 | - | - |
| 2-Nitrophenol | µg/l | 0.05 | NONE | - | < 0.05 | < 0.05 | - | - |
| 2,4-Dimethylphenol | µg/l | 0.05 | NONE | - | < 0.05 | < 0.05 | - | - |
| Bis(2-chloroethoxy)methane | µg/l | 0.05 | NONE | - | < 0.05 | < 0.05 | - | - |
| 1,2,4-Trichlorobenzene | µg/l | 0.05 | NONE | - | < 0.05 | < 0.05 | - | - |

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**Analytical Report Number: 21-70204**
**Project / Site name: Brockhampton West, Havant**

**Your Order No: DS59990**

| **Lab Sample Number** | | | | 1845280 | 1845281 | 1845282 | 1845283 | 1845284 |
|---|---|---|---|---|---|---|---|---|
| **Sample Reference** | | | | DS102 | CP02A (S) | CP03 (S) | CP05 | Upstream High Tide |
| **Sample Number** | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| **Depth (m)** | | | | 11.00 | 9.00 | 5.00 | 8.50 | None Supplied |
| **Date Sampled** | | | | 20/04/2021 | 20/04/2021 | 20/04/2021 | 20/04/2021 | 20/04/2021 |
| **Time Taken** | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| **Analytical Parameter (Water Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | | | | | |
| Naphthalene | µg/l | 0.01 | ISO 17025 | - | < 0.01 | < 0.01 | - | - |
| 2,4-Dichlorophenol | µg/l | 0.05 | NONE | - | < 0.05 | < 0.05 | - | - |
| 4-Chloroaniline | µg/l | 0.05 | NONE | - | < 0.05 | < 0.05 | - | - |
| Hexachlorobutadiene | µg/l | 0.05 | NONE | - | < 0.05 | < 0.05 | - | - |
| 4-Chloro-3-methylphenol | µg/l | 0.05 | NONE | - | < 0.05 | < 0.05 | - | - |
| 2,4,6-Trichlorophenol | µg/l | 0.05 | NONE | - | < 0.05 | < 0.05 | - | - |
| 2,4,5-Trichlorophenol | µg/l | 0.05 | NONE | - | < 0.05 | < 0.05 | - | - |
| 2-Methylnaphthalene | µg/l | 0.05 | NONE | - | < 0.05 | < 0.05 | - | - |
| 2-Chloronaphthalene | µg/l | 0.05 | NONE | - | < 0.05 | < 0.05 | - | - |
| Dimethylphthalate | µg/l | 0.05 | NONE | - | < 0.05 | < 0.05 | - | - |
| 2,6-Dinitrotoluene | µg/l | 0.05 | NONE | - | < 0.05 | < 0.05 | - | - |
| Acenaphthylene | µg/l | 0.01 | ISO 17025 | - | < 0.01 | < 0.01 | - | - |
| Acenaphthene | µg/l | 0.01 | ISO 17025 | - | < 0.01 | < 0.01 | - | - |
| 2,4-Dinitrotoluene | µg/l | 0.05 | NONE | - | < 0.05 | < 0.05 | - | - |
| Dibenzofuran | µg/l | 0.05 | NONE | - | < 0.05 | < 0.05 | - | - |
| 4-Chlorophenyl phenyl ether | µg/l | 0.05 | NONE | - | < 0.05 | < 0.05 | - | - |
| Diethyl phthalate | µg/l | 0.05 | NONE | - | < 0.05 | < 0.05 | - | - |
| 4-Nitroaniline | µg/l | 0.05 | NONE | - | < 0.05 | < 0.05 | - | - |
| Fluorene | µg/l | 0.01 | ISO 17025 | - | < 0.01 | < 0.01 | - | - |
| Azobenzene | µg/l | 0.05 | NONE | - | < 0.05 | < 0.05 | - | - |
| Bromophenyl phenyl ether | µg/l | 0.05 | NONE | - | < 0.05 | < 0.05 | - | - |
| Hexachlorobenzene | µg/l | 0.05 | NONE | - | < 0.05 | < 0.05 | - | - |
| Phenanthrene | µg/l | 0.01 | ISO 17025 | - | < 0.01 | < 0.01 | - | - |
| Anthracene | µg/l | 0.01 | ISO 17025 | - | < 0.01 | < 0.01 | - | - |
| Carbazole | µg/l | 0.05 | NONE | - | < 0.05 | < 0.05 | - | - |
| Dibutyl phthalate | µg/l | 0.05 | NONE | - | < 0.05 | < 0.05 | - | - |
| Anthraquinone | µg/l | 0.05 | NONE | - | < 0.05 | < 0.05 | - | - |
| Fluoranthene | µg/l | 0.01 | ISO 17025 | - | < 0.01 | < 0.01 | - | - |
| Pyrene | µg/l | 0.01 | ISO 17025 | - | < 0.01 | < 0.01 | - | - |
| Butyl benzyl phthalate | µg/l | 0.05 | NONE | - | < 0.05 | < 0.05 | - | - |
| Benzo(a)anthracene | µg/l | 0.01 | ISO 17025 | - | < 0.01 | < 0.01 | - | - |
| Chrysene | µg/l | 0.01 | ISO 17025 | - | < 0.01 | < 0.01 | - | - |
| Benzo(b)fluoranthene | µg/l | 0.01 | ISO 17025 | - | < 0.01 | < 0.01 | - | - |
| Benzo(k)fluoranthene | µg/l | 0.01 | ISO 17025 | - | < 0.01 | < 0.01 | - | - |
| Benzo(a)pyrene | µg/l | 0.01 | ISO 17025 | - | < 0.01 | < 0.01 | - | - |
| Indeno(1,2,3-cd)pyrene | µg/l | 0.01 | ISO 17025 | - | < 0.01 | < 0.01 | - | - |
| Dibenz(a,h)anthracene | µg/l | 0.01 | ISO 17025 | - | < 0.01 | < 0.01 | - | - |
| Benzo(ghi)perylene | µg/l | 0.01 | ISO 17025 | - | < 0.01 | < 0.01 | - | - |
| 3&4-Methylphenol | µg/l | 0.1 | NONE | - | < 0.10 | < 0.10 | - | - |

**Microbiological (Subcontracted)**

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| E. Coli | | 1 | NONE | - | - | - | - | See Attached |

U/S = Unsuitable Sample  I/S = Insufficient Sample

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The results included within the report relate only to the sample(s) submitted for testing.

**Analytical Report Number: 21-70204**
**Project / Site name: Brockhampton West, Havant**

**Your Order No: DS59990**

| Lab Sample Number | | | | 1845285 | 1845286 | 1845287 | 1845288 | 1845289 |
|---|---|---|---|---|---|---|---|---|
| Sample Reference | | | | Midstream High Tide | Downstream High Tide | Upstream Low Tide | Midstream Low Tide | Downstream Low Tide |
| Sample Number | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Depth (m) | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Date Sampled | | | | 20/04/2021 | 20/04/2021 | 20/04/2021 | 20/04/2021 | 20/04/2021 |
| Time Taken | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| **Analytical Parameter (Water Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | | | | | |
| **General Inorganics** | | | | | | | | |
| pH | pH Units | N/A | ISO 17025 | 7.5 | 7.5 | 7.7 | 7.7 | 7.8 |
| Sulphate as SO4 | µg/l | 45 | ISO 17025 | 157000 | 164000 | 24800 | 25400 | 38100 |
| Total Sulphur | µg/l | 15 | NONE | - | - | - | - | - |
| Chloride | mg/l | 0.15 | ISO 17025 | 1000 | 970 | 68 | 78 | 170 |
| Total Phosphate as P | µg/l | 20 | ISO 17025 | < 20 | < 20 | < 20 | < 20 | 21 |
| Ammoniacal Nitrogen as NH3 | µg/l | 15 | ISO 17025 | < 15 | 17 | 15 | 130 | 92 |
| Nitrate as N | mg/l | 0.01 | ISO 17025 | 7.79 | 7.18 | 8.16 | 8.02 | 8.11 |
| Nitrate as NO3 | mg/l | 0.05 | ISO 17025 | 34.5 | 31.8 | 36.2 | 35.5 | 35.9 |
| Nitrite as N | µg/l | 1 | ISO 17025 | 1.1 | < 1.0 | 2.1 | 3.2 | 6.2 |
| Nitrite as NO2 | µg/l | 5 | ISO 17025 | < 5.0 | < 5.0 | 6.9 | 10 | 20 |
| Chemical Oxygen Demand (Total) | mg/l | 2 | ISO 17025 | 13 | 7.5 | 5.6 | < 2.0 | 2.1 |
| BOD (Biochemical Oxygen Demand) (Total) - PL | mg/l | 1 | ISO 17025 | < 1.0 | 1.1 | < 1.0 | < 1.0 | < 1.0 |
| **Total Phenols** | | | | | | | | |
| Total Phenols (monohydric) | µg/l | 10 | ISO 17025 | < 10 | < 10 | < 10 | < 10 | < 10 |
| **Speciated PAHs** | | | | | | | | |
| Naphthalene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Acenaphthylene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Acenaphthene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Fluorene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Phenanthrene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Anthracene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Fluoranthene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Pyrene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Benzo(a)anthracene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Chrysene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Benzo(b)fluoranthene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Benzo(k)fluoranthene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Benzo(a)pyrene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Indeno(1,2,3-cd)pyrene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Dibenz(a,h)anthracene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Benzo(ghi)perylene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| **Total PAH** | | | | | | | | |
| Total EPA-16 PAHs | µg/l | 0.16 | ISO 17025 | < 0.16 | < 0.16 | < 0.16 | < 0.16 | < 0.16 |
| **Heavy Metals / Metalloids** | | | | | | | | |
| Chromium (hexavalent) | µg/l | 5 | ISO 17025 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 |
| Magnesium (dissolved) | mg/l | 0.005 | ISO 17025 | - | - | - | - | - |
| Arsenic (dissolved) | µg/l | 0.15 | ISO 17025 | 7.83 | 9.69 | 0.99 | 0.84 | 1.54 |
| Cadmium (dissolved) | µg/l | 0.02 | ISO 17025 | < 0.02 | < 0.02 | < 0.02 | < 0.02 | < 0.02 |
| Chromium (dissolved) | µg/l | 0.2 | ISO 17025 | 2.4 | 2.9 | 2.3 | 2.2 | 2.3 |
| Copper (dissolved) | µg/l | 0.5 | ISO 17025 | 11 | 8.3 | 5.0 | 2.5 | 9.3 |
| Lead (dissolved) | µg/l | 0.2 | ISO 17025 | < 0.2 | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Mercury (dissolved) | µg/l | 0.05 | ISO 17025 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Nickel (dissolved) | µg/l | 0.5 | ISO 17025 | 2.6 | 2.5 | 2.2 | 2.5 | 2.1 |
| Zinc (dissolved) | µg/l | 0.5 | ISO 17025 | 1.7 | 1.5 | 0.9 | 31 | 1.5 |

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**Analytical Report Number: 21-70204**
**Project / Site name: Brockhampton West, Havant**

**Your Order No: DS59990**

| **Lab Sample Number** | | | | 1845285 | 1845286 | 1845287 | 1845288 | 1845289 |
|---|---|---|---|---|---|---|---|---|
| **Sample Reference** | | | | Midstream High Tide | Downstream High Tide | Upstream Low Tide | Midstream Low Tide | Downstream Low Tide |
| **Sample Number** | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| **Depth (m)** | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| **Date Sampled** | | | | 20/04/2021 | 20/04/2021 | 20/04/2021 | 20/04/2021 | 20/04/2021 |
| **Time Taken** | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| **Analytical Parameter (Water Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | | | | | |
| **Monoaromatics & Oxygenates** | | | | | | | | |
| Benzene | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| Toluene | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| Ethylbenzene | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| p & m-xylene | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| o-xylene | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| MTBE (Methyl Tertiary Butyl Ether) | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| **Petroleum Hydrocarbons** | | | | | | | | |
| TPH-CWG - Aliphatic >C5 - C6 | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| TPH-CWG - Aliphatic >C6 - C8 | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| TPH-CWG - Aliphatic >C8 - C10 | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| Aliphatic >C10 - C12 | µg/l | 10 | ISO 17025 | < 10 | < 10 | < 10 | < 10 | < 10 |
| Aliphatic >C12 - C16 | µg/l | 10 | ISO 17025 | < 10 | < 10 | < 10 | < 10 | < 10 |
| Aliphatic >C16 - C21 | µg/l | 10 | ISO 17025 | < 10 | < 10 | < 10 | < 10 | < 10 |
| Aliphatic >C21 - C35 | µg/l | 10 | ISO 17025 | < 10 | < 10 | < 10 | < 10 | < 10 |
| Aliphatic >C10 - C35 | µg/l | 10 | ISO 17025 | < 10 | < 10 | < 10 | < 10 | < 10 |
| TPH-CWG - Aromatic >C5 - C7 | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| TPH-CWG - Aromatic >C7 - C8 | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| TPH-CWG - Aromatic >C8 - C10 | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| Aromatic >C10 - C12 | µg/l | 10 | ISO 17025 | < 10 | < 10 | < 10 | < 10 | < 10 |
| Aromatic >C12 - C16 | µg/l | 10 | ISO 17025 | < 10 | < 10 | < 10 | < 10 | < 10 |
| Aromatic >C16 - C21 | µg/l | 10 | ISO 17025 | < 10 | < 10 | < 10 | < 10 | < 10 |
| Aromatic >C21 - C35 | µg/l | 10 | ISO 17025 | < 10 | < 10 | < 10 | < 10 | < 10 |
| Aromatic >C10 - C35 | µg/l | 10 | ISO 17025 | < 10 | < 10 | < 10 | < 10 | < 10 |
| **VOCs** | | | | | | | | |
| Chloromethane | µg/l | 1 | ISO 17025 | - | - | - | - | - |
| Chloroethane | µg/l | 1 | ISO 17025 | - | - | - | - | - |
| Bromomethane | µg/l | 1 | ISO 17025 | - | - | - | - | - |
| Vinyl Chloride | µg/l | 1 | NONE | - | - | - | - | - |
| Trichlorofluoromethane | µg/l | 1 | NONE | - | - | - | - | - |
| 1,1-Dichloroethene | µg/l | 1 | ISO 17025 | - | - | - | - | - |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | µg/l | 1 | ISO 17025 | - | - | - | - | - |
| Cis-1,2-dichloroethene | µg/l | 1 | ISO 17025 | - | - | - | - | - |
| MTBE (Methyl Tertiary Butyl Ether) | µg/l | 1 | ISO 17025 | - | - | - | - | - |
| 1,1-Dichloroethane | µg/l | 1 | ISO 17025 | - | - | - | - | - |
| 2,2-Dichloropropane | µg/l | 1 | ISO 17025 | - | - | - | - | - |
| Trichloromethane | µg/l | 1 | ISO 17025 | - | - | - | - | - |
| 1,1,1-Trichloroethane | µg/l | 1 | ISO 17025 | - | - | - | - | - |
| 1,2-Dichloroethane | µg/l | 1 | ISO 17025 | - | - | - | - | - |
| 1,1-Dichloropropene | µg/l | 1 | ISO 17025 | - | - | - | - | - |
| Trans-1,2-dichloroethene | µg/l | 1 | ISO 17025 | - | - | - | - | - |
| Benzene | µg/l | 1 | ISO 17025 | - | - | - | - | - |
| Tetrachloromethane | µg/l | 1 | ISO 17025 | - | - | - | - | - |
| 1,2-Dichloropropane | µg/l | 1 | ISO 17025 | - | - | - | - | - |
| Trichloroethene | µg/l | 1 | ISO 17025 | - | - | - | - | - |
| Dibromomethane | µg/l | 1 | ISO 17025 | - | - | - | - | - |
| Bromodichloromethane | µg/l | 1 | ISO 17025 | - | - | - | - | - |

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**Analytical Report Number: 21-70204**
**Project / Site name: Brockhampton West, Havant**

**Your Order No: DS59990**

| Lab Sample Number | | | | 1845285 | 1845286 | 1845287 | 1845288 | 1845289 |
|---|---|---|---|---|---|---|---|---|
| Sample Reference | | | | Midstream High Tide | Downstream High Tide | Upstream Low Tide | Midstream Low Tide | Downstream Low Tide |
| Sample Number | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Depth (m) | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Date Sampled | | | | 20/04/2021 | 20/04/2021 | 20/04/2021 | 20/04/2021 | 20/04/2021 |
| Time Taken | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| **Analytical Parameter (Water Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | | | | | |
| Cis-1,3-dichloropropene | µg/l | 1 | ISO 17025 | - | - | - | - | - |
| Trans-1,3-dichloropropene | µg/l | 1 | ISO 17025 | - | - | - | - | - |
| Toluene | µg/l | 1 | ISO 17025 | - | - | - | - | - |
| 1,1,2-Trichloroethane | µg/l | 1 | ISO 17025 | - | - | - | - | - |
| 1,3-Dichloropropane | µg/l | 1 | ISO 17025 | - | - | - | - | - |
| Dibromochloromethane | µg/l | 1 | ISO 17025 | - | - | - | - | - |
| Tetrachloroethene | µg/l | 1 | ISO 17025 | - | - | - | - | - |
| 1,2-Dibromoethane | µg/l | 1 | ISO 17025 | - | - | - | - | - |
| Chlorobenzene | µg/l | 1 | ISO 17025 | - | - | - | - | - |
| 1,1,1,2-Tetrachloroethane | µg/l | 1 | ISO 17025 | - | - | - | - | - |
| Ethylbenzene | µg/l | 1 | ISO 17025 | - | - | - | - | - |
| p & m-Xylene | µg/l | 1 | ISO 17025 | - | - | - | - | - |
| Styrene | µg/l | 1 | ISO 17025 | - | - | - | - | - |
| Tribromomethane | µg/l | 1 | ISO 17025 | - | - | - | - | - |
| o-Xylene | µg/l | 1 | ISO 17025 | - | - | - | - | - |
| 1,1,2,2-Tetrachloroethane | µg/l | 1 | ISO 17025 | - | - | - | - | - |
| Isopropylbenzene | µg/l | 1 | ISO 17025 | - | - | - | - | - |
| Bromobenzene | µg/l | 1 | ISO 17025 | - | - | - | - | - |
| n-Propylbenzene | µg/l | 1 | ISO 17025 | - | - | - | - | - |
| 2-Chlorotoluene | µg/l | 1 | ISO 17025 | - | - | - | - | - |
| 4-Chlorotoluene | µg/l | 1 | ISO 17025 | - | - | - | - | - |
| 1,3,5-Trimethylbenzene | µg/l | 1 | ISO 17025 | - | - | - | - | - |
| tert-Butylbenzene | µg/l | 1 | ISO 17025 | - | - | - | - | - |
| 1,2,4-Trimethylbenzene | µg/l | 1 | ISO 17025 | - | - | - | - | - |
| sec-Butylbenzene | µg/l | 1 | ISO 17025 | - | - | - | - | - |
| 1,3-Dichlorobenzene | µg/l | 1 | ISO 17025 | - | - | - | - | - |
| p-Isopropyltoluene | µg/l | 1 | ISO 17025 | - | - | - | - | - |
| 1,2-Dichlorobenzene | µg/l | 1 | ISO 17025 | - | - | - | - | - |
| 1,4-Dichlorobenzene | µg/l | 1 | ISO 17025 | - | - | - | - | - |
| Butylbenzene | µg/l | 1 | ISO 17025 | - | - | - | - | - |
| 1,2-Dibromo-3-chloropropane | µg/l | 1 | ISO 17025 | - | - | - | - | - |
| 1,2,4-Trichlorobenzene | µg/l | 1 | ISO 17025 | - | - | - | - | - |
| Hexachlorobutadiene | µg/l | 1 | ISO 17025 | - | - | - | - | - |
| 1,2,3-Trichlorobenzene | µg/l | 1 | ISO 17025 | - | - | - | - | - |
| **SVOCs** | | | | | | | | |
| Aniline | µg/l | 0.05 | NONE | - | - | - | - | - |
| Phenol | µg/l | 0.05 | NONE | - | - | - | - | - |
| 2-Chlorophenol | µg/l | 0.05 | NONE | - | - | - | - | - |
| Bis(2-chloroethyl)ether | µg/l | 0.05 | NONE | - | - | - | - | - |
| 1,3-Dichlorobenzene | µg/l | 0.05 | NONE | - | - | - | - | - |
| 1,2-Dichlorobenzene | µg/l | 0.05 | NONE | - | - | - | - | - |
| 1,4-Dichlorobenzene | µg/l | 0.05 | NONE | - | - | - | - | - |
| Bis(2-chloroisopropyl)ether | µg/l | 0.05 | NONE | - | - | - | - | - |
| 2-Methylphenol | µg/l | 0.05 | NONE | - | - | - | - | - |
| Hexachloroethane | µg/l | 0.05 | NONE | - | - | - | - | - |
| Nitrobenzene | µg/l | 0.05 | NONE | - | - | - | - | - |
| 4-Methylphenol | µg/l | 0.05 | NONE | - | - | - | - | - |
| Isophorone | µg/l | 0.05 | NONE | - | - | - | - | - |
| 2-Nitrophenol | µg/l | 0.05 | NONE | - | - | - | - | - |
| 2,4-Dimethylphenol | µg/l | 0.05 | NONE | - | - | - | - | - |
| Bis(2-chloroethoxy)methane | µg/l | 0.05 | NONE | - | - | - | - | - |
| 1,2,4-Trichlorobenzene | µg/l | 0.05 | NONE | - | - | - | - | - |

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**Analytical Report Number: 21-70204**
**Project / Site name: Brockhampton West, Havant**

**Your Order No: DS59990**

| **Lab Sample Number** | | | | 1845285 | 1845286 | 1845287 | 1845288 | 1845289 |
|---|---|---|---|---|---|---|---|---|
| **Sample Reference** | | | | Midstream High Tide | Downstream High Tide | Upstream Low Tide | Midstream Low Tide | Downstream Low Tide |
| **Sample Number** | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| **Depth (m)** | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| **Date Sampled** | | | | 20/04/2021 | 20/04/2021 | 20/04/2021 | 20/04/2021 | 20/04/2021 |
| **Time Taken** | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| **Analytical Parameter (Water Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | | | | | |
| Naphthalene | µg/l | 0.01 | ISO 17025 | - | - | - | - | - |
| 2,4-Dichlorophenol | µg/l | 0.05 | NONE | - | - | - | - | - |
| 4-Chloroaniline | µg/l | 0.05 | NONE | - | - | - | - | - |
| Hexachlorobutadiene | µg/l | 0.05 | NONE | - | - | - | - | - |
| 4-Chloro-3-methylphenol | µg/l | 0.05 | NONE | - | - | - | - | - |
| 2,4,6-Trichlorophenol | µg/l | 0.05 | NONE | - | - | - | - | - |
| 2,4,5-Trichlorophenol | µg/l | 0.05 | NONE | - | - | - | - | - |
| 2-Methylnaphthalene | µg/l | 0.05 | NONE | - | - | - | - | - |
| 2-Chloronaphthalene | µg/l | 0.05 | NONE | - | - | - | - | - |
| Dimethylphthalate | µg/l | 0.05 | NONE | - | - | - | - | - |
| 2,6-Dinitrotoluene | µg/l | 0.05 | NONE | - | - | - | - | - |
| Acenaphthylene | µg/l | 0.01 | ISO 17025 | - | - | - | - | - |
| Acenaphthene | µg/l | 0.01 | ISO 17025 | - | - | - | - | - |
| 2,4-Dinitrotoluene | µg/l | 0.05 | NONE | - | - | - | - | - |
| Dibenzofuran | µg/l | 0.05 | NONE | - | - | - | - | - |
| 4-Chlorophenyl phenyl ether | µg/l | 0.05 | NONE | - | - | - | - | - |
| Diethyl phthalate | µg/l | 0.05 | NONE | - | - | - | - | - |
| 4-Nitroaniline | µg/l | 0.05 | NONE | - | - | - | - | - |
| Fluorene | µg/l | 0.01 | ISO 17025 | - | - | - | - | - |
| Azobenzene | µg/l | 0.05 | NONE | - | - | - | - | - |
| Bromophenyl phenyl ether | µg/l | 0.05 | NONE | - | - | - | - | - |
| Hexachlorobenzene | µg/l | 0.05 | NONE | - | - | - | - | - |
| Phenanthrene | µg/l | 0.01 | ISO 17025 | - | - | - | - | - |
| Anthracene | µg/l | 0.01 | ISO 17025 | - | - | - | - | - |
| Carbazole | µg/l | 0.05 | NONE | - | - | - | - | - |
| Dibutyl phthalate | µg/l | 0.05 | NONE | - | - | - | - | - |
| Anthraquinone | µg/l | 0.05 | NONE | - | - | - | - | - |
| Fluoranthene | µg/l | 0.01 | ISO 17025 | - | - | - | - | - |
| Pyrene | µg/l | 0.01 | ISO 17025 | - | - | - | - | - |
| Butyl benzyl phthalate | µg/l | 0.05 | NONE | - | - | - | - | - |
| Benzo(a)anthracene | µg/l | 0.01 | ISO 17025 | - | - | - | - | - |
| Chrysene | µg/l | 0.01 | ISO 17025 | - | - | - | - | - |
| Benzo(b)fluoranthene | µg/l | 0.01 | ISO 17025 | - | - | - | - | - |
| Benzo(k)fluoranthene | µg/l | 0.01 | ISO 17025 | - | - | - | - | - |
| Benzo(a)pyrene | µg/l | 0.01 | ISO 17025 | - | - | - | - | - |
| Indeno(1,2,3-cd)pyrene | µg/l | 0.01 | ISO 17025 | - | - | - | - | - |
| Dibenz(a,h)anthracene | µg/l | 0.01 | ISO 17025 | - | - | - | - | - |
| Benzo(ghi)perylene | µg/l | 0.01 | ISO 17025 | - | - | - | - | - |
| 3&4-Methylphenol | µg/l | 0.1 | NONE | - | - | - | - | - |

**Microbiological (Subcontracted)**

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| E. Coli | | 1 | NONE | See Attached | See Attached | See Attached | See Attached | See Attached |

U/S = Unsuitable Sample  I/S = Insufficient Sample

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The results included within the report relate only to the sample(s) submitted for testing.

**Analytical Report Number : 21-70204**
**Project / Site name: Brockhampton West, Havant**

**Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)**

| Analytical Test Name | Analytical Method Description | Analytical Method Reference | Method number | Wet / Dry Analysis | Accreditation Status |
|---|---|---|---|---|---|
| Metals in water by ICP-MS (dissolved) | Determination of metals in water by acidification followed by ICP-MS. Accredited Matrices: SW, GW, PW except B=SW,GW, Hg=SW,PW, Al=SW,PW. | In-house method based on USEPA Method 6020 & 200.8 "for the determination of trace elements in water by ICP-MS. | L012-PL | W | ISO 17025 |
| Metals in water by ICP-OES (dissolved) | Determination of metals in water by acidification followed by ICP-OES. Accredited Matrices SW, GW, PW, PrW.(Al, Cu,Fe,Zn). | In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil. | L039-PL | W | ISO 17025 |
| Biological oxygen demand (total) of water | Determination of biochemical oxygen demand in water (5 days). Accredited matrices: SW, PW, GW. | In-house method based on standard method 5210B. | L086-PL | W | ISO 17025 |
| Hexavalent chromium in water | Determination of hexavalent chromium in water by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry. | In-house method by continuous flow analyser. Accredited Matrices SW, GW, PW. | L080-PL | W | ISO 17025 |
| E.Coli in water Subcon | E.Coli in Water - Subcontracted Analysis | Subcontracted Analysis - See Attached Subcon Report. | | W | NONE |
| Monohydric phenols in water | Determination of phenols in water by continuous flow analyser. Accredited matrices: SW PW GW | In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar) | L080-PL | W | ISO 17025 |
| Nitrite in water | Determination of nitrite in water by addition of sulphanilamide and NED followed by discrete analyser (colorimetry).Accredited matrices SW, GW, PW. | In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton | L082-PL | W | ISO 17025 |
| Nitrate in water | Determination of nitrate by reaction with sodium salicylate and colorimetry. Accredited matrices SW, GW, PW | In-house method based on Examination of Water and Wastewatern & Polish Standard Method PN-82/C-04579.08, | L078-PL | W | ISO 17025 |
| Speciated EPA-16 PAHs in water | Determination of PAH compounds in water by extraction in dichloromethane followed by GC-MS with the use of surrogate and internal standards. Accredited matrices: SW PW GW | In-house method based on USEPA 8270 | L102B-PL | W | ISO 17025 |
| Sulphate in water | Determination of sulphate in water by acidification followed by ICP-OES. Accredited matrices: SW PW GW, PrW. | In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil. | L039-PL | W | ISO 17025 |
| Total Sulphur in water | Determination of total sulphur in water by acidification followed by ICP-OES. | In-house method based on MEWAM 1986 Methods for the Determination of Metals in Soil"" | L039-PL | W | NONE |
| Semi-volatile organic compounds in water | Determination of semi-volatile organic compounds in leachate by extraction in dichloromethane followed by GC-MS. | In-house method based on USEPA 8270 | L102B-PL | W | NONE |
| TPHCWG (Waters) | Determination of dichloromethane extractable hydrocarbons in water by GC-MS, speciation by interpretation. | In-house method | L070-PL | W | ISO 17025 |
| Volatile organic compounds in water | Determination of volatile organic compounds in water by headspace GC-MS. Accredited matrices: SW PW GW | In-house method based on USEPA8260 | L073B-PL | W | ISO 17025 |
| TPH C10-C35 by GCxGC-FID | Determination of total petroleum hydrocarbons in water by GC x GC FID with carbon banding aliphatic and aromatic C10-C35. Accredited Matrices SW,GW,PW. | In-house method | L101B-PL | W | ISO 17025 |
| BTEX and MTBE in water (Monoaromatics) | Determination of BTEX and MTBE in water by headspace GC-MS. Accredited matrices: SW PW GW | In-house method based on USEPA8260 | L073B-PL | W | ISO 17025 |
| Ammonia as NH3 in water | Determination of Ammonium/Ammonia/ Ammoniacal Nitrogen by the colorimetric salicylate/nitroprusside method. Accredited matrices SW, GW, PW. | In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton | L082-PL | W | ISO 17025 |

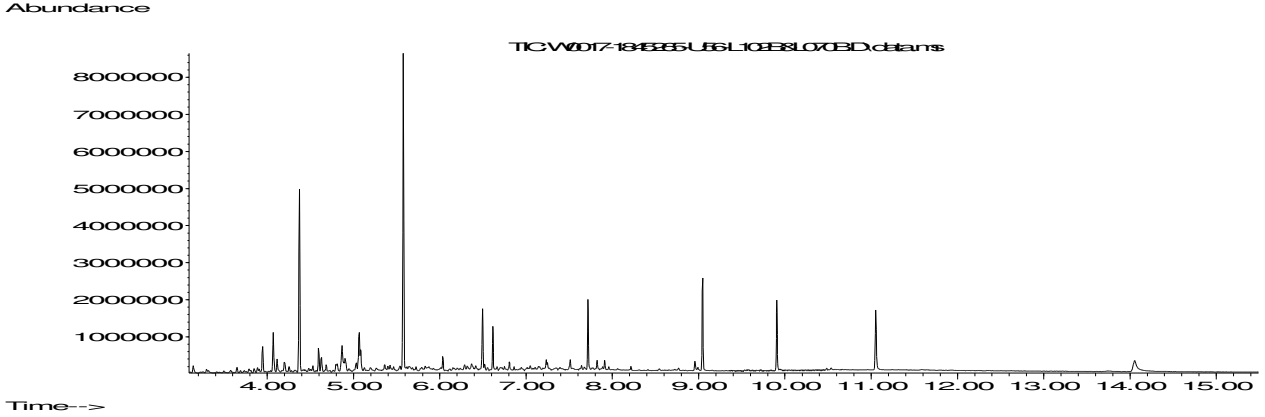
**Analytical Report Number : 21-70204**
**Project / Site name: Brockhampton West, Havant**

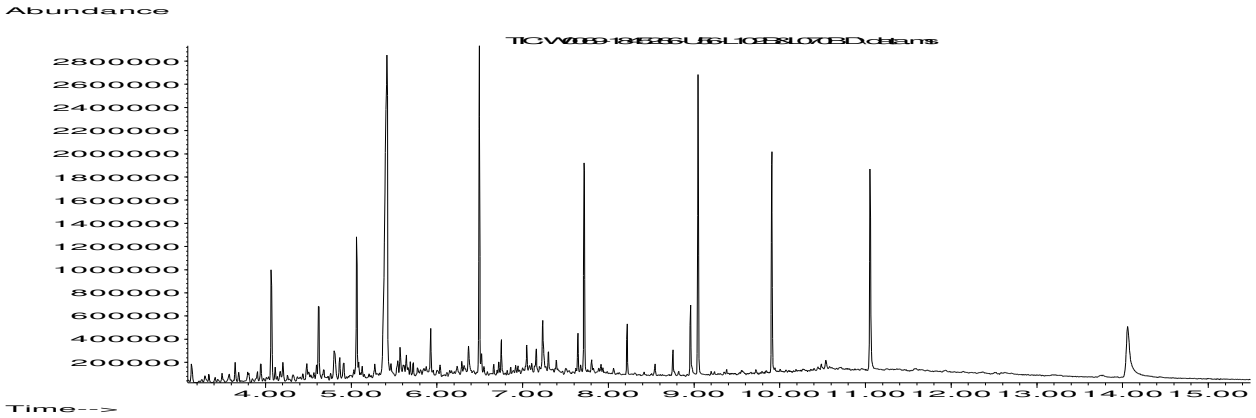
**Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)**

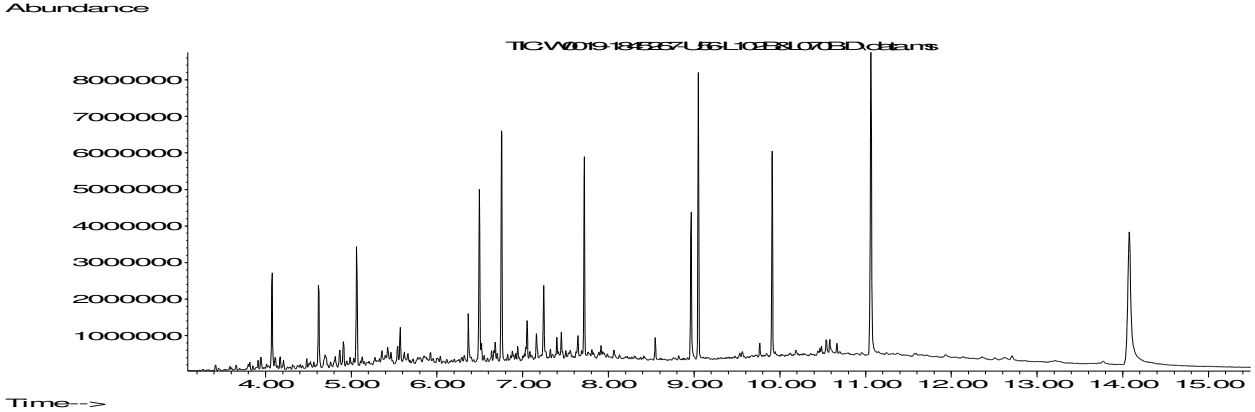
| Analytical Test Name | Analytical Method Description | Analytical Method Reference | Method number | Wet / Dry Analysis | Accreditation Status |
|---|---|---|---|---|---|
| Nitrite as N in water | Determination of nitrite in water by addition of sulphanilamide and NED followed by discrete analyser (colorimetry). Accredited matrices SW, GW, PW. | In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton | L082-PL | W | ISO 17025 |
| Nitrate as N in water | Determination of nitrate by reaction with sodium salicylate and colorimetry. Accredited matrices SW, GW, PW. | In-house method based on Examination of Water and Wastewatern & Polish Standard Method PN-82/C-04579.08, | L078-PL | W | ISO 17025 |
| Total Phosphate as P in water | Determination of ortho phosphate in water by addition of ammonium molybdate, potassium antimonyl tartrate and ascorbic acid followed by colorimetry.Accredited matrices: SW, PW, GW. | In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton, analysis by discreet analyser. | L082-PL | W | ISO 17025 |
| TPH Chromatogram in Water | TPH Chromatogram in Water. | In-house method | L070-PL | W | NONE |
| pH at 20oC in water (automated) | Determination of pH in water by electrometric measurement. Accredited matrices: SW PW GW | In house method. | L099-PL | W | ISO 17025 |
| Subcon Micro (Eurofins) | Subcontracted Analysis | Subcontracted Analysis | | W | NONE |
| Chemical Oxygen Demand in Water (Total) | Determination of total COD in water by reflux oxidation with acidified K2Cr2O7 followed by colorimetry. Accredited matrices: SW, PW, GW. | HACH DR/890 Colorimeter Procedures Manual (48470-22) (Ref 0170.2) | L065-PL | W | ISO 17025 |
| Chloride in water | Determination of Chloride colorimetrically by discrete analyser. | In house based on MEWAM Method ISBN 0117516260. Accredited matrices: SW, PW, GW. | L082-PL | W | ISO 17025 |

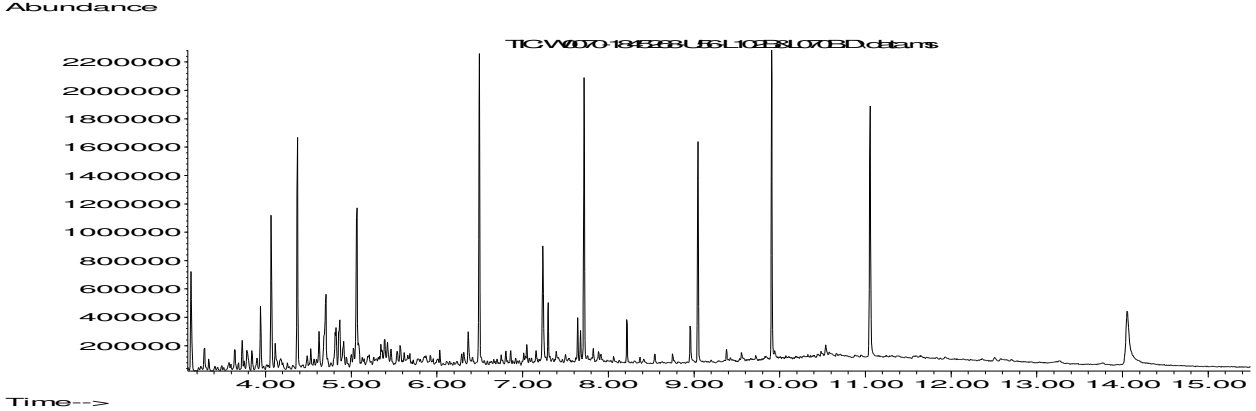
**For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.**
**For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.**
**Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.**

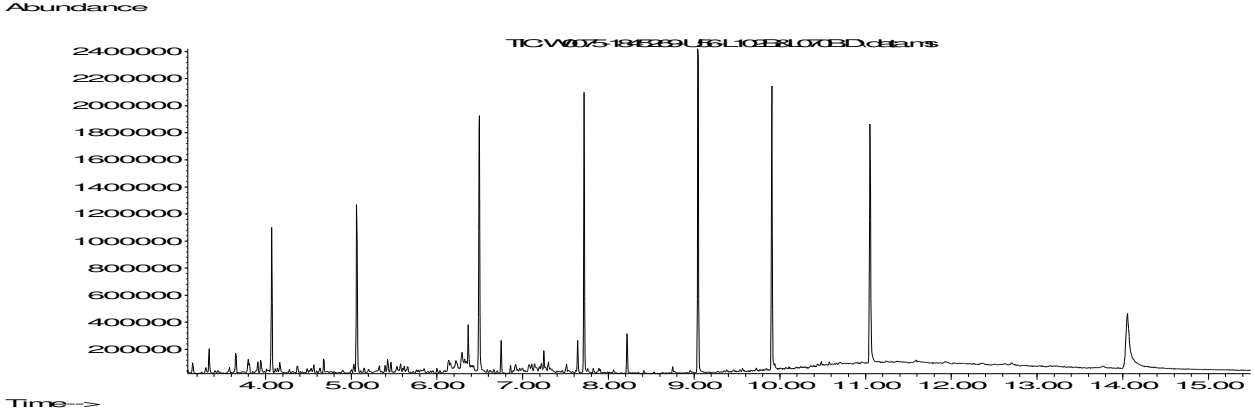
**Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.**

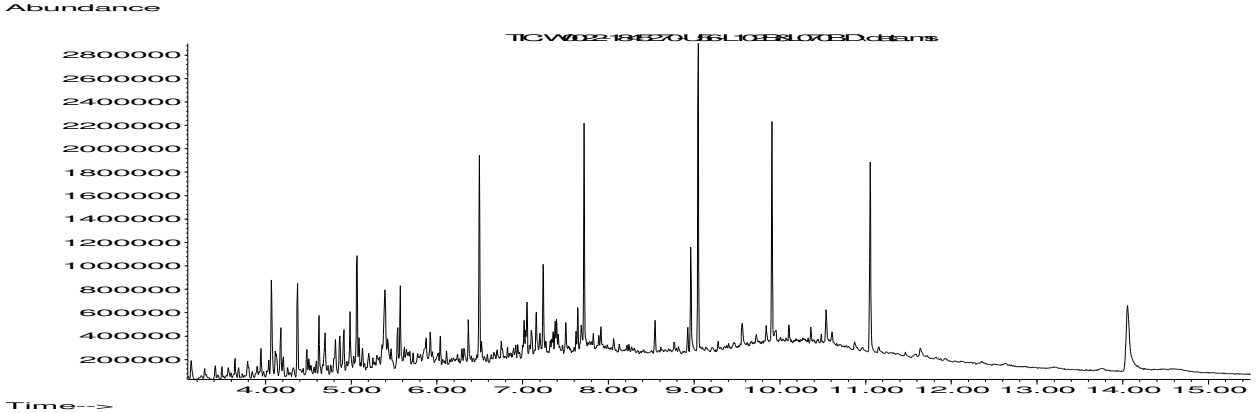

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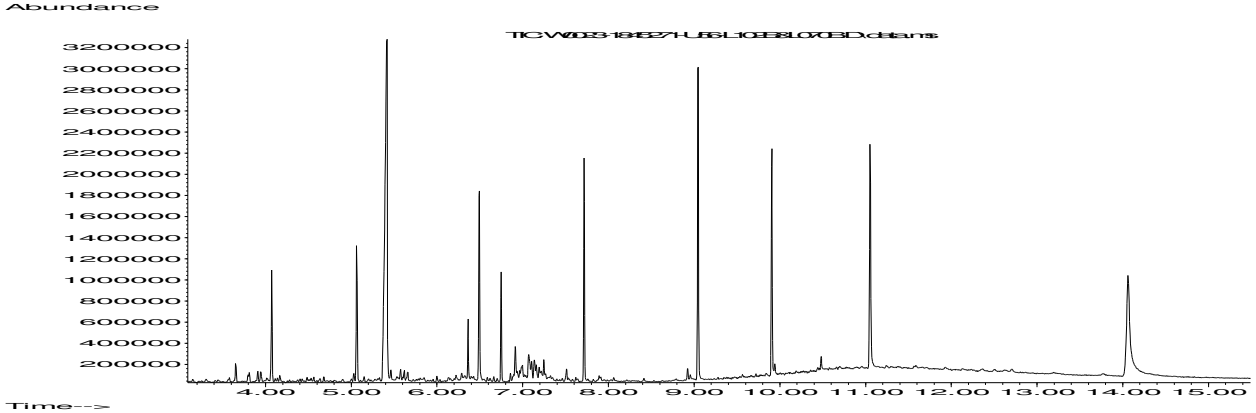

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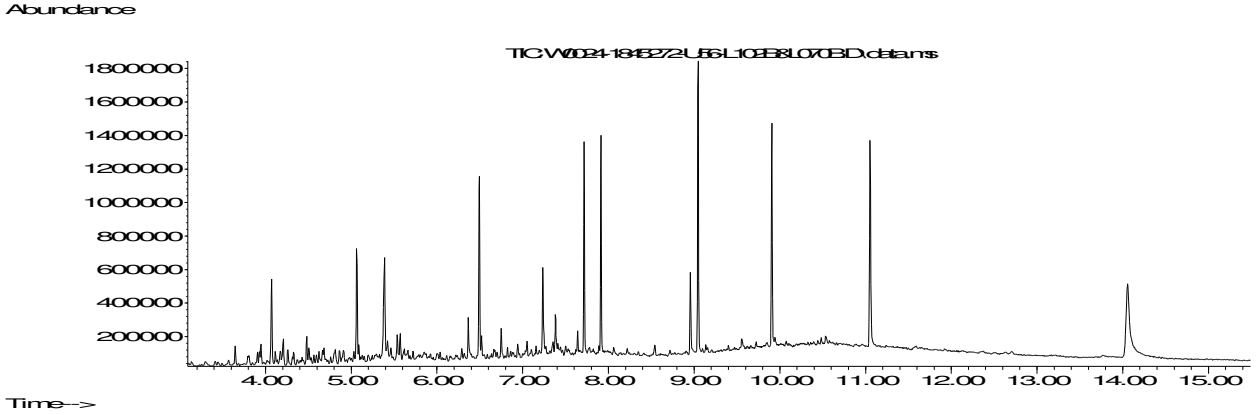

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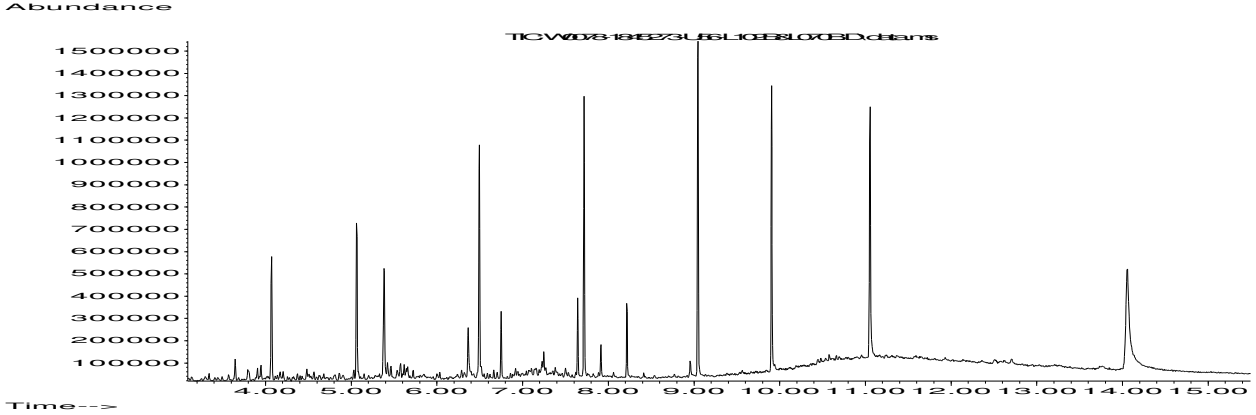

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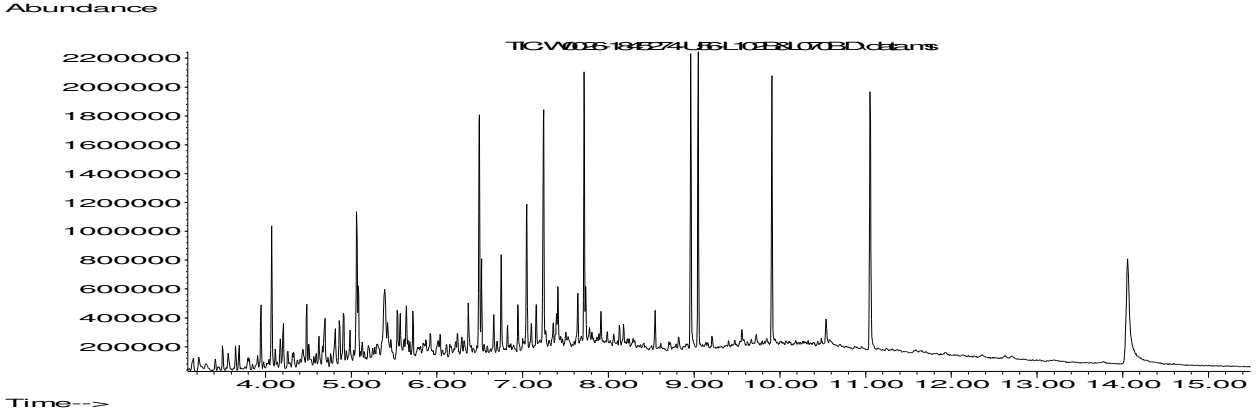

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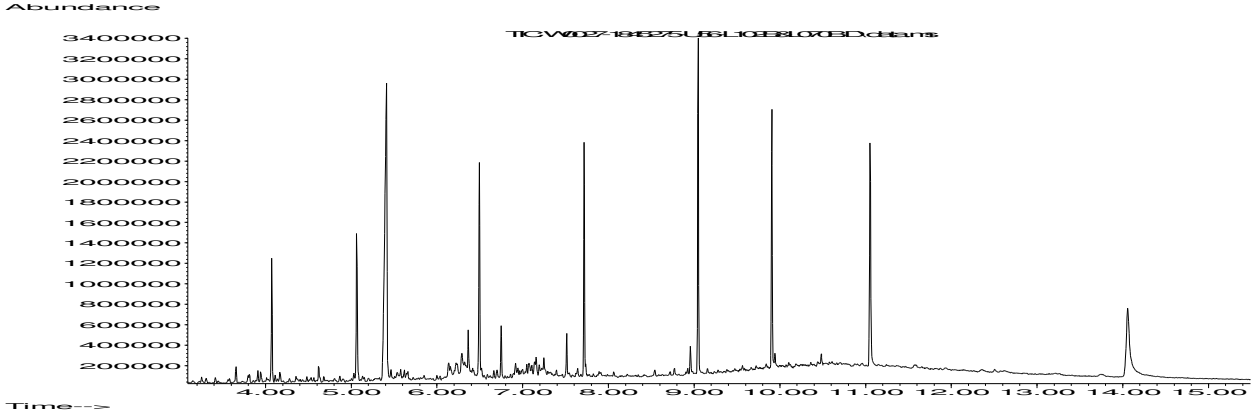

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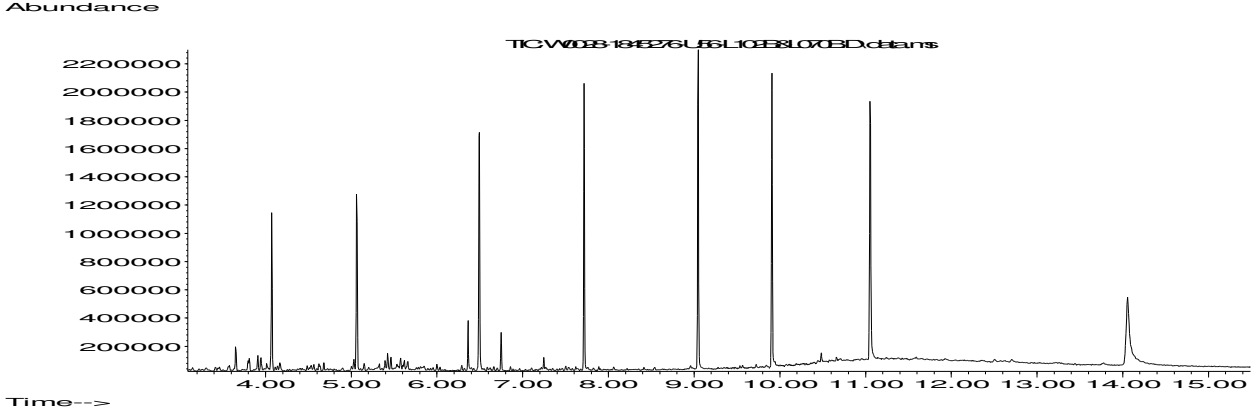

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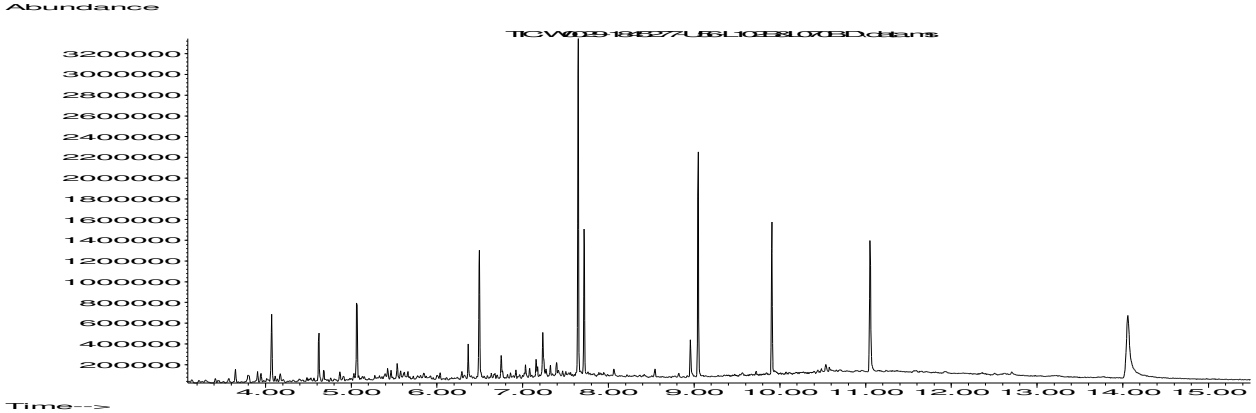

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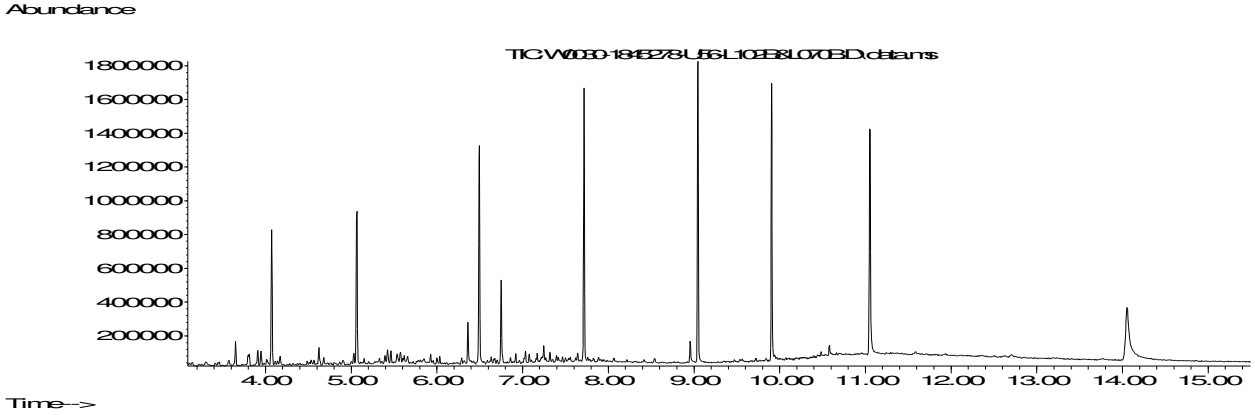

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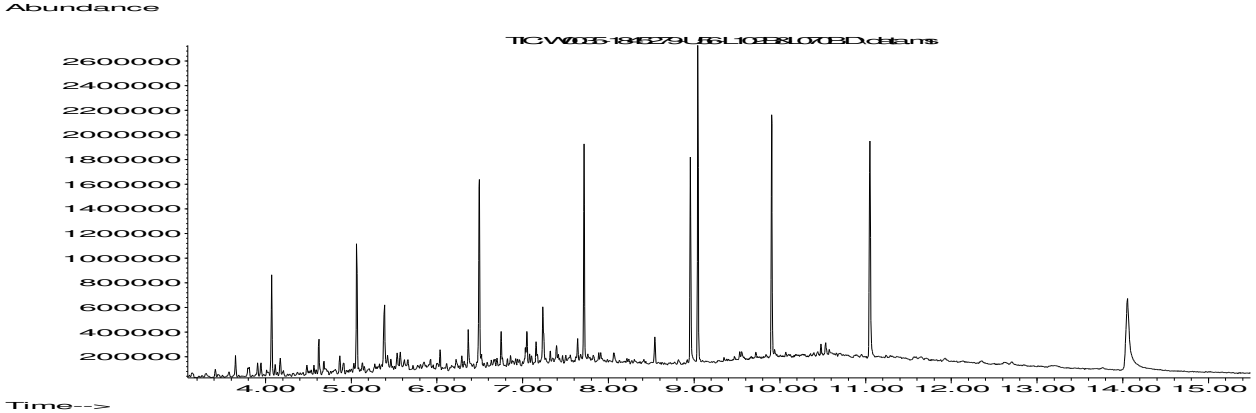

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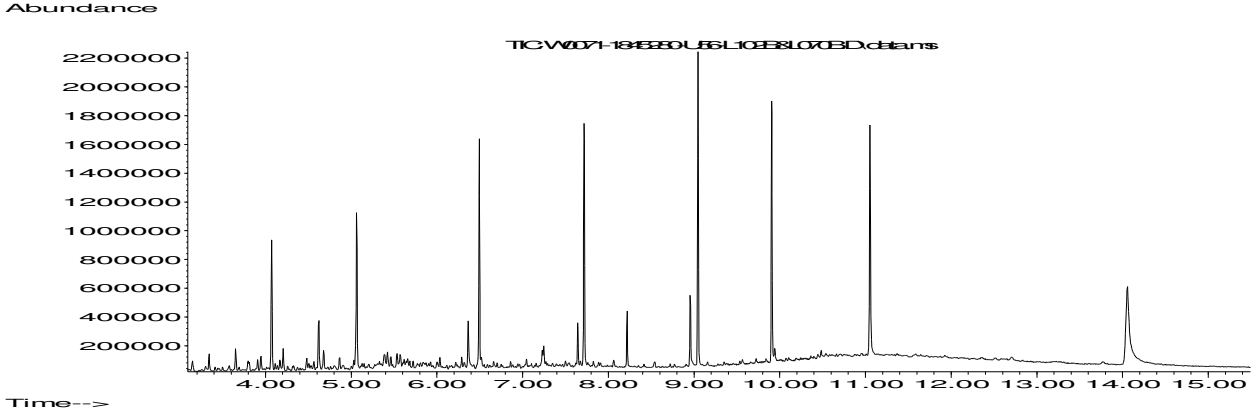

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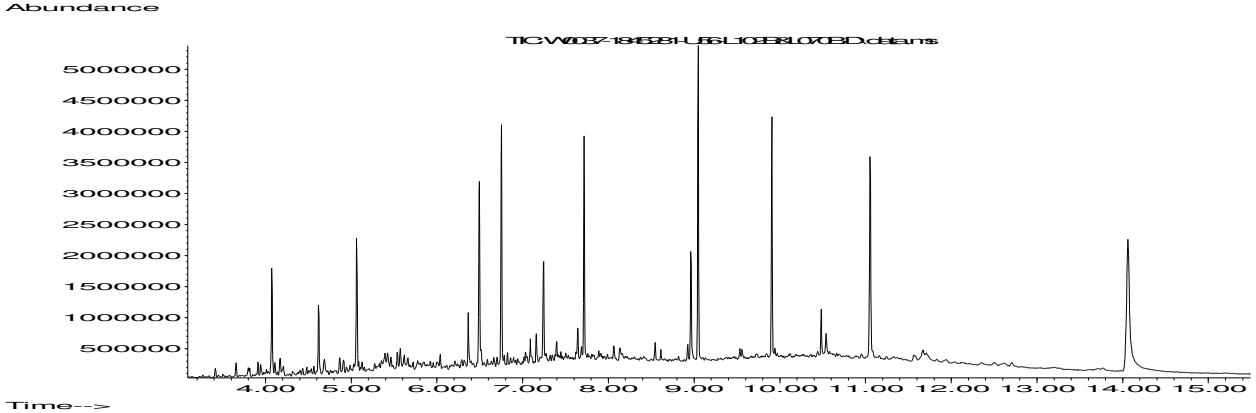

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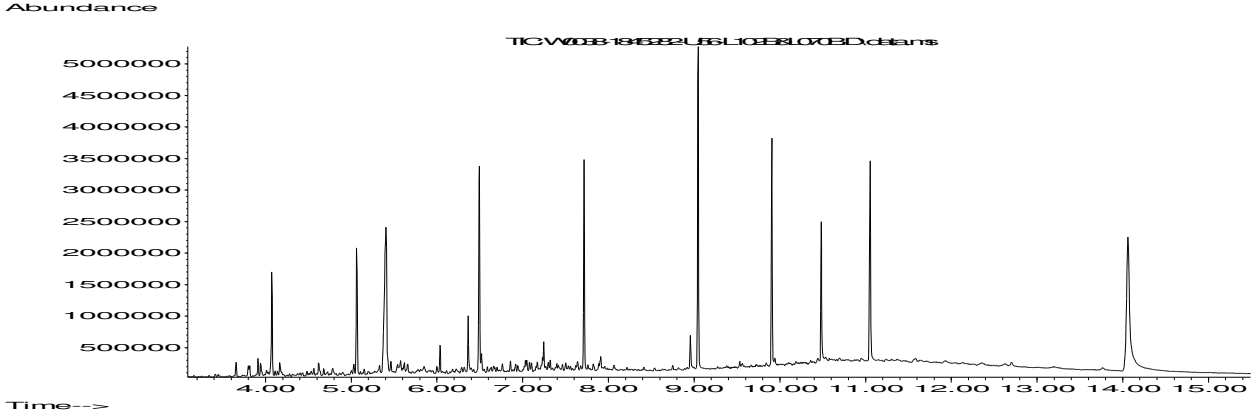

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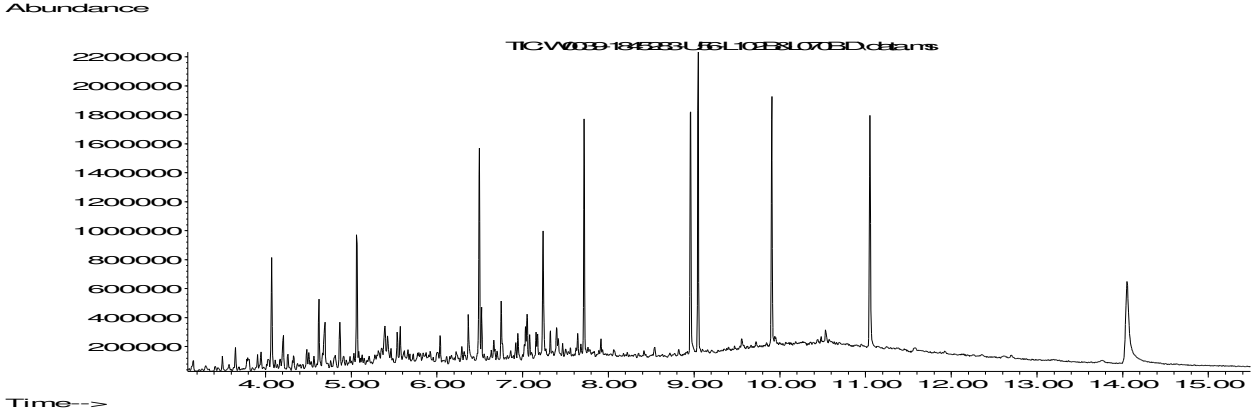

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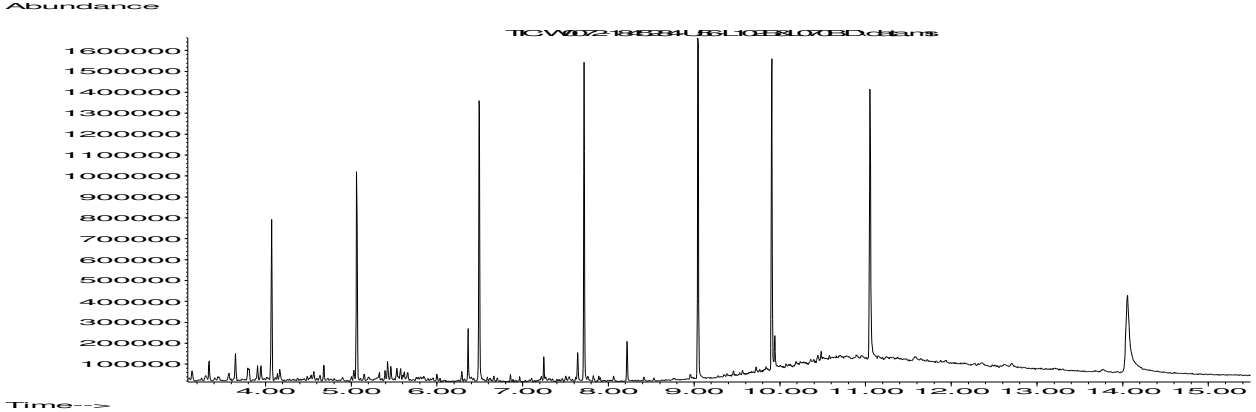

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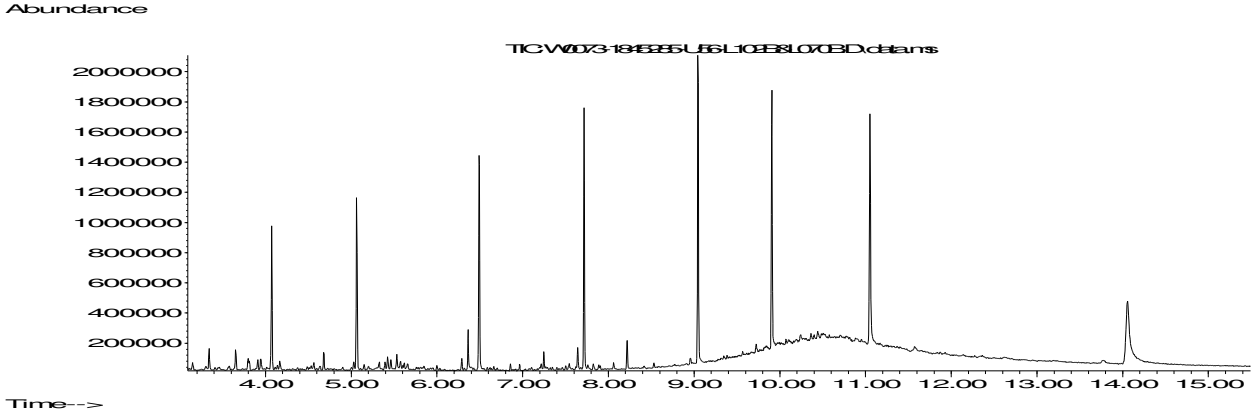

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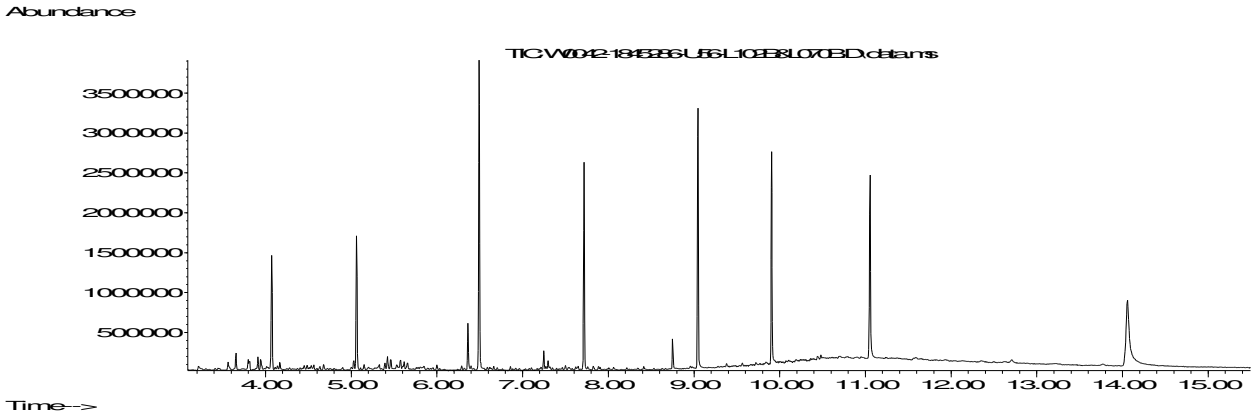

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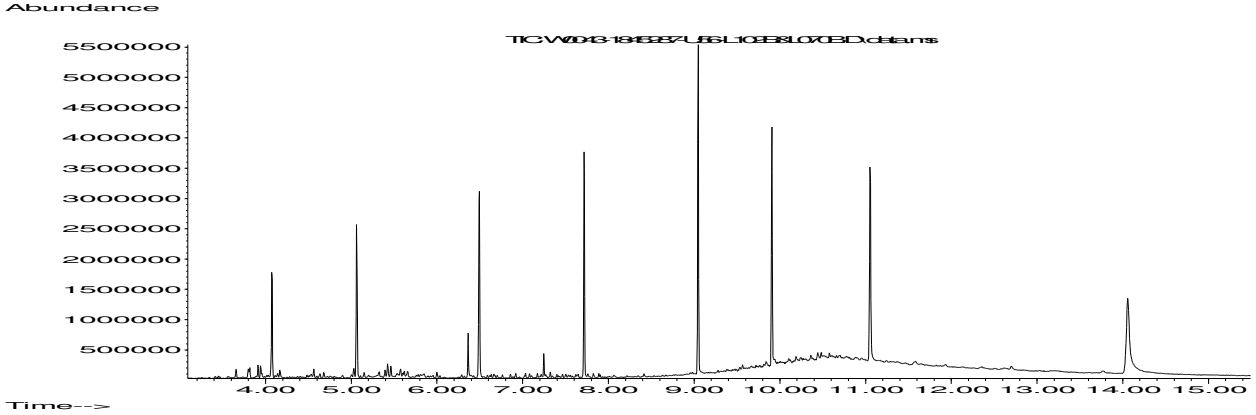

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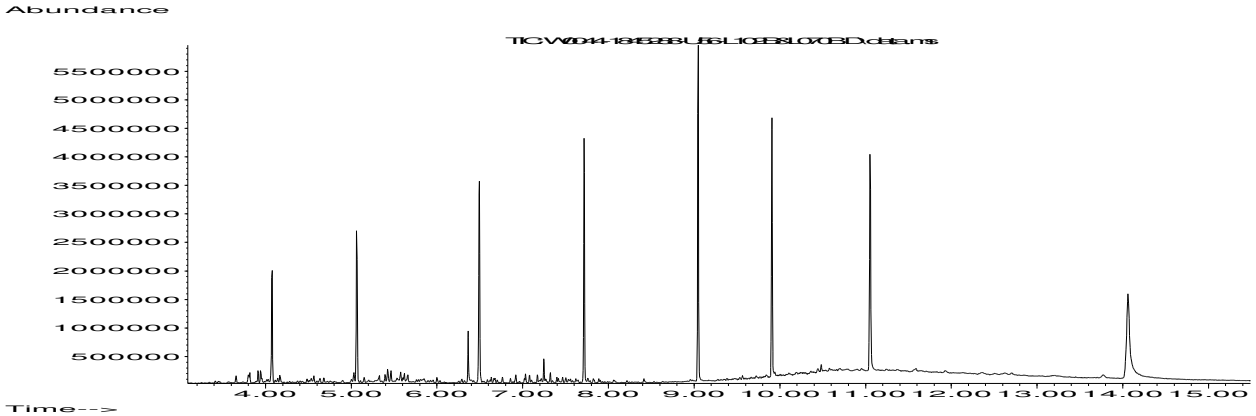

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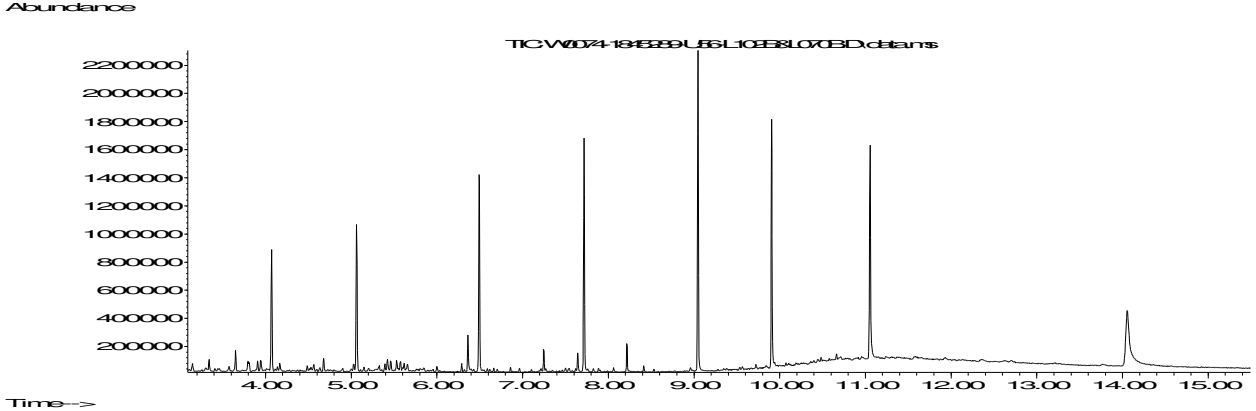

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Abundance
TIC:W1074-184889U56L10EB8L07CBD.d\data.ms
2200000
2000000
1800000
1600000
1400000
1200000
1000000
800000
600000
400000
200000
4.00
5.00
6.00
7.00
8.00
9.00
10.00
11.00
12.00
13.00
14.00
15.00
Time-->

# Sample Deviation Report

**Analytical Report Number : 21-70204**
**Project / Site name: Brockhampton West, Havant**

| Sample ID | Other ID | Sample Type | Lab Sample Number | Sample Deviation | Test Name | Test Ref | Test Deviation |
|---|---|---|---|---|---|---|---|
| CP05 | None Supplied | W | 1845283 | b | BTEX and MTBE in water (Monoaromatics) | L073B-PL | b |
| Downstream High Tide | None Supplied | W | 1845286 | bc | Biological oxygen demand (total) of water | L086-PL | c |
| Downstream High Tide | None Supplied | W | 1845286 | bc | Subcon Micro (Eurofins) | None Supplied | bc |
| Downstream Low Tide | None Supplied | W | 1845289 | bc | Biological oxygen demand (total) of water | L086-PL | c |
| Downstream Low Tide | None Supplied | W | 1845289 | bc | Subcon Micro (Eurofins) | None Supplied | bc |
| Midstream High Tide | None Supplied | W | 1845285 | bc | Biological oxygen demand (total) of water | L086-PL | c |
| Midstream High Tide | None Supplied | W | 1845285 | bc | Subcon Micro (Eurofins) | None Supplied | bc |
| Midstream Low Tide | None Supplied | W | 1845288 | bc | Biological oxygen demand (total) of water | L086-PL | c |
| Midstream Low Tide | None Supplied | W | 1845288 | bc | Subcon Micro (Eurofins) | None Supplied | bc |
| Upstream High Tide | None Supplied | W | 1845284 | bc | Biological oxygen demand (total) of water | L086-PL | c |
| Upstream High Tide | None Supplied | W | 1845284 | bc | Subcon Micro (Eurofins) | None Supplied | bc |
| Upstream Low Tide | None Supplied | W | 1845287 | bc | Biological oxygen demand (total) of water | L086-PL | c |
| Upstream Low Tide | None Supplied | W | 1845287 | bc | Subcon Micro (Eurofins) | None Supplied | bc |

**David Jackson**
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7 Woodshots Meadow,
Croxley Green
Business Park,
Watford,
Herts,
WD18 8YS

**t:** 01923 225404
**f:** 01923 237404
**e:** reception@i2analytical.com

# Analytical Report Number : 21-70898

| | | | |
|---|---|---|---|
| **Project / Site name:** | Brockhampton West, Havant | **Samples received on:** | 26/04/2021 |
| **Your job number:** | 19-2099.04 | **Samples instructed on/ Analysis started on:** | 26/04/2021 |
| **Your order number:** | DS59990 | **Analysis completed by:** | 04/05/2021 |
| **Report Issue Number:** | 1 | **Report issued on:** | 04/05/2021 |
| **Samples Analysed:** | 1 water sample | | |

**Signed:**

Will Fardon
Technical Reviewer (CS Team)
**For & on behalf of i2 Analytical Ltd.**

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils - 4 weeks from reporting
leachates - 2 weeks from reporting
waters - 2 weeks from reporting
asbestos - 6 months from reporting

Excel copies of reports are only valid when accompanied by this PDF certificate.

Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement.
Application of uncertainty of measurement would provide a range within which the true result lies.
An estimate of measurement uncertainty can be provided on request.

This certificate should not be reproduced, except in full, without the express permission of the laboratory.
The results included within the report are representative of the samples submitted for analysis.

**Analytical Report Number: 21-70898**
**Project / Site name: Brockhampton West, Havant**

**Your Order No: DS59990**

| | | | | |
|---|---|---|---|---|
| **Lab Sample Number** | | | | 1848986 |
| **Sample Reference** | | | | DS103 |
| **Sample Number** | | | | None Supplied |
| **Depth (m)** | | | | 11.00 |
| **Date Sampled** | | | | 20/04/2021 |
| **Time Taken** | | | | None Supplied |
| **Analytical Parameter (Water Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | |
| **General Inorganics** | | | | |
| pH | pH Units | N/A | ISO 17025 | 6.9 |
| Sulphate as SO4 | µg/l | 45 | ISO 17025 | 16400 |
| Chloride | ug/l | 150 | ISO 17025 | 350000 |
| Ammoniacal Nitrogen as NH3 | µg/l | 15 | ISO 17025 | 130000 |
| Nitrate as N | mg/l | 0.01 | ISO 17025 | 0.30 |
| Nitrate as NO3 | ug/l | 50 | ISO 17025 | 1300 |
| Nitrite as N | µg/l | 1 | ISO 17025 | < 1.0 |
| Nitrite as NO2 | µg/l | 5 | ISO 17025 | < 5.0 |
| **Total Phenols** | | | | |
| Total Phenols (monohydric) | µg/l | 10 | ISO 17025 | 11 |
| **Speciated PAHs** | | | | |
| Naphthalene | µg/l | 0.01 | ISO 17025 | 2.22 |
| Acenaphthylene | µg/l | 0.01 | ISO 17025 | < 0.01 |
| Acenaphthene | µg/l | 0.01 | ISO 17025 | 5.08 |
| Fluorene | µg/l | 0.01 | ISO 17025 | 2.15 |
| Phenanthrene | µg/l | 0.01 | ISO 17025 | 2.28 |
| Anthracene | µg/l | 0.01 | ISO 17025 | 0.23 |
| Fluoranthene | µg/l | 0.01 | ISO 17025 | 0.33 |
| Pyrene | µg/l | 0.01 | ISO 17025 | 0.25 |
| Benzo(a)anthracene | µg/l | 0.01 | ISO 17025 | < 0.01 |
| Chrysene | µg/l | 0.01 | ISO 17025 | < 0.01 |
| Benzo(b)fluoranthene | µg/l | 0.01 | ISO 17025 | < 0.01 |
| Benzo(k)fluoranthene | µg/l | 0.01 | ISO 17025 | < 0.01 |
| Benzo(a)pyrene | µg/l | 0.01 | ISO 17025 | < 0.01 |
| Indeno(1,2,3-cd)pyrene | µg/l | 0.01 | ISO 17025 | < 0.01 |
| Dibenz(a,h)anthracene | µg/l | 0.01 | ISO 17025 | < 0.01 |
| Benzo(ghi)perylene | µg/l | 0.01 | ISO 17025 | < 0.01 |
| **Total PAH** | | | | |
| Total EPA-16 PAHs | µg/l | 0.16 | ISO 17025 | 12.5 |
| **Heavy Metals / Metalloids** | | | | |
| Chromium (hexavalent) | µg/l | 5 | ISO 17025 | < 5.0 |
| Arsenic (dissolved) | µg/l | 0.15 | ISO 17025 | 2.77 |
| Cadmium (dissolved) | µg/l | 0.02 | ISO 17025 | < 0.02 |
| Chromium (dissolved) | µg/l | 0.2 | ISO 17025 | 7.6 |
| Copper (dissolved) | µg/l | 0.5 | ISO 17025 | < 0.5 |
| Lead (dissolved) | µg/l | 0.2 | ISO 17025 | 0.3 |
| Mercury (dissolved) | µg/l | 0.05 | ISO 17025 | < 0.05 |
| Nickel (dissolved) | µg/l | 0.5 | ISO 17025 | 17 |
| Zinc (dissolved) | µg/l | 0.5 | ISO 17025 | 4.7 |
| **Monoaromatics & Oxygenates** | | | | |
| Benzene | µg/l | 1 | ISO 17025 | < 1.0 |
| Toluene | µg/l | 1 | ISO 17025 | < 1.0 |
| Ethylbenzene | µg/l | 1 | ISO 17025 | < 1.0 |
| p & m-xylene | µg/l | 1 | ISO 17025 | < 1.0 |
| o-xylene | µg/l | 1 | ISO 17025 | < 1.0 |

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The results included within the report relate only to the sample(s) submitted for testing.

**Analytical Report Number: 21-70898**
**Project / Site name: Brockhampton West, Havant**

**Your Order No: DS59990**

| | | | | |
|---|---|---|---|---|
| **Lab Sample Number** | | | | 1848986 |
| **Sample Reference** | | | | DS103 |
| **Sample Number** | | | | None Supplied |
| **Depth (m)** | | | | 11.00 |
| **Date Sampled** | | | | 20/04/2021 |
| **Time Taken** | | | | None Supplied |
| **Analytical Parameter (Water Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | |
| MTBE (Methyl Tertiary Butyl Ether) | µg/l | 1 | ISO 17025 | < 1.0 |
| **Petroleum Hydrocarbons** | | | | |
| TPH-CWG - Aliphatic >C5 - C6 | µg/l | 1 | ISO 17025 | < 1.0 |
| TPH-CWG - Aliphatic >C6 - C8 | µg/l | 1 | ISO 17025 | < 1.0 |
| TPH-CWG - Aliphatic >C8 - C10 | µg/l | 1 | ISO 17025 | < 1.0 |
| Aliphatic >C10 - C12 | µg/l | 10 | ISO 17025 | 42 |
| Aliphatic >C12 - C16 | µg/l | 10 | ISO 17025 | 18 |
| Aliphatic >C16 - C21 | µg/l | 10 | ISO 17025 | < 10 |
| Aliphatic >C21 - C35 | µg/l | 10 | ISO 17025 | 190 |
| Aliphatic >C10 - C35 | µg/l | 10 | ISO 17025 | 250 |
| TPH-CWG - Aromatic >C5 - C7 | µg/l | 1 | ISO 17025 | < 1.0 |
| TPH-CWG - Aromatic >C7 - C8 | µg/l | 1 | ISO 17025 | < 1.0 |
| TPH-CWG - Aromatic >C8 - C10 | µg/l | 1 | ISO 17025 | < 1.0 |
| Aromatic >C10 - C12 | µg/l | 10 | ISO 17025 | 160 |
| Aromatic >C12 - C16 | µg/l | 10 | ISO 17025 | 150 |
| Aromatic >C16 - C21 | µg/l | 10 | ISO 17025 | 67 |
| Aromatic >C21 - C35 | µg/l | 10 | ISO 17025 | 320 |
| Aromatic >C10 - C35 | µg/l | 10 | ISO 17025 | 700 |

U/S = Unsuitable Sample  I/S = Insufficient Sample

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The results included within the report relate only to the sample(s) submitted for testing.

**Analytical Report Number : 21-70898**
**Project / Site name: Brockhampton West, Havant**

**Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)**

| Analytical Test Name | Analytical Method Description | Analytical Method Reference | Method number | Wet / Dry Analysis | Accreditation Status |
|---|---|---|---|---|---|
| Metals in water by ICP-MS (dissolved) | Determination of metals in water by acidification followed by ICP-MS. Accredited Matrices: SW, GW, PW except B=SW,GW, Hg=SW,PW, Al=SW,PW. | In-house method based on USEPA Method 6020 & 200.8 "for the determination of trace elements in water by ICP-MS. | L012-PL | W | ISO 17025 |
| Hexavalent chromium in water | Determination of hexavalent chromium in water by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry. | In-house method by continuous flow analyser. Accredited Matrices SW, GW, PW. | L080-PL | W | ISO 17025 |
| Monohydric phenols in water | Determination of phenols in water by continuous flow analyser. Accredited matrices: SW PW GW | In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar) | L080-PL | W | ISO 17025 |
| Nitrite in water | Determination of nitrite in water by addition of sulphanilamide and NED followed by discrete analyser (colorimetry).Accredited matrices SW, GW, PW. | In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton | L082-PL | W | ISO 17025 |
| Speciated EPA-16 PAHs in water | Determination of PAH compounds in water by extraction in dichloromethane followed by GC-MS with the use of surrogate and internal standards. Accredited matrices: SW PW GW | In-house method based on USEPA 8270 | L102B-PL | W | ISO 17025 |
| Sulphate in water | Determination of sulphate in water by acidification followed by ICP-OES. Accredited matrices: SW PW GW, PrW. | In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil. | L039-PL | W | ISO 17025 |
| TPHCWG (Waters) | Determination of dichloromethane extractable hydrocarbons in water by GC-MS, speciation by interpretation. | In-house method | L070-PL | W | ISO 17025 |
| TPH C10-C35 by GCxGC-FID | Determination of total petroleum hydrocarbons in water by GC x GC FID with carbon banding aliphatic and aromatic C10-C35. Accredited Matrices SW,GW,PW. | In-house method | L101B-PL | W | ISO 17025 |
| BTEX and MTBE in water (Monoaromatics) | Determination of BTEX and MTBE in water by headspace GC-MS. Accredited matrices: SW PW GW | In-house method based on USEPA8260 | L073B-PL | W | ISO 17025 |
| Ammonia as NH3 in water | Determination of Ammonium/Ammonia/ Ammoniacal Nitrogen by the colorimetric salicylate/nitroprusside method. Accredited matrices SW, GW, PW. | In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton | L082-PL | W | ISO 17025 |
| Nitrite as N in water | Determination of nitrite in water by addition of sulphanilamide and NED followed by discrete analyser (colorimetry). Accredited matrices SW, GW, PW. | In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton | L082-PL | W | ISO 17025 |
| Nitrate as N in water | Determination of nitrate by reaction with sodium salicylate and colorimetry. Accredited matrices SW, GW, PW. | In-house method based on Examination of Water and Wastewatern & Polish Standard Method PN-82/C-04579.08, | L078-PL | W | ISO 17025 |
| TPH Chromatogram in Water | TPH Chromatogram in Water. | In-house method | L070-PL | W | NONE |
| pH at 20oC in water (automated) | Determination of pH in water by electrometric measurement. Accredited matrices: SW PW GW | In house method. | L099-PL | W | ISO 17025 |
| Chloride in water | Determination of Chloride colorimetrically by discrete analyser. | In house based on MEWAM Method ISBN 0117516260. Accredited matrices: SW, PW, GW. | L082-PL | W | ISO 17025 |
| Nitrate in water | Determination of nitrate by reaction with sodium salicylate and colorimetry. Accredited matrices SW, GW, PW | In-house method based on Examination of Water and Wastewatern & Polish Standard Method PN-82/C-04579.08, | L078-PL | W | ISO 17025 |

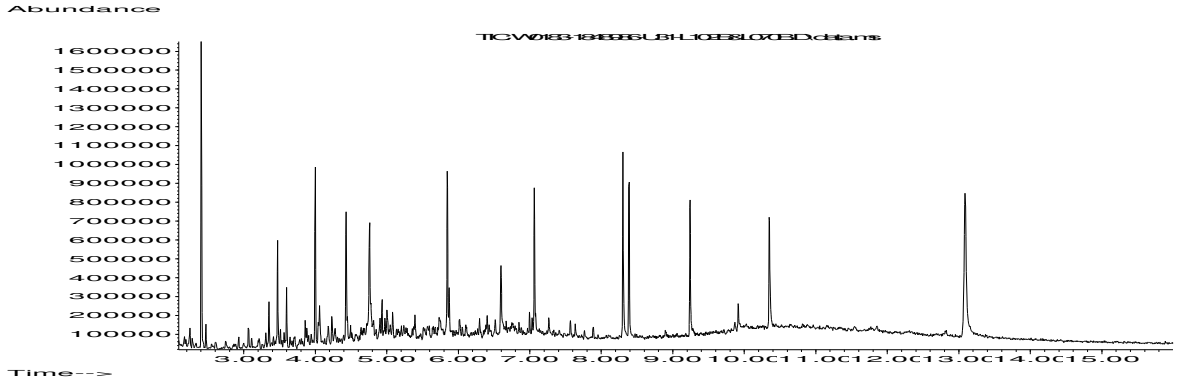
**Analytical Report Number : 21-70898**
**Project / Site name: Brockhampton West, Havant**

**Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)**

| Analytical Test Name | Analytical Method Description | Analytical Method Reference | Method number | Wet / Dry Analysis | Accreditation Status |
|---|---|---|---|---|---|

**For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.**
**For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.**
**Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.**

**Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.**


Abundance
1600000
1500000
1400000
1300000
1200000
1100000
1000000
900000
800000
700000
600000
500000
400000
300000
200000
100000
3.00 4.00 5.00 6.00 7.00 8.00 9.00 10.00 11.00 12.00 13.00 14.00 15.00
Time-->

# Sample Deviation Report

**Analytical Report Number : 21-70898**
**Project / Site name: Brockhampton West, Havant**

| Sample ID | Other ID | Sample Type | Lab Sample Number | Sample Deviation | Test Name | Test Ref | Test Deviation |
|---|---|---|---|---|---|---|---|
| DS103 | None Supplied | W | 1848986 | c | Ammonia as NH3 in water | L082-PL | c |
| DS103 | None Supplied | W | 1848986 | c | Ammoniacal Nitrogen as N in water | L082-PL | c |
| DS103 | None Supplied | W | 1848986 | c | Nitrate as N in water | L078-PL | c |
| DS103 | None Supplied | W | 1848986 | c | Nitrate in water | L078-PL | c |
| DS103 | None Supplied | W | 1848986 | c | Nitrite as N in water | L082-PL | c |
| DS103 | None Supplied | W | 1848986 | c | Nitrite in water | L082-PL | c |
| DS103 | None Supplied | W | 1848986 | c | pH at 20oC in water (automated) | L099-PL | c |

# BACTERIOLOGICAL TEST REPORT

Stansted Laboratories LTD
Unit 9-10, Riverside Industrial Estate
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Barking, Essex
IG11 0ND

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sales@stanstedlabs.co.uk
www.stanstedlabs.co.uk

Directors: B. Patel, K.Patel

**Client:** i2 Analytical LTD
**#Address:** 7 Woodshots Meadow
Croxley Green Business Park
Croxley Green
Hertfordshire
WD18 8YS
**#Site:** 21-73080
**#FAO:** Trevor Hill
**#Order No:** 13797,21-73080

**Job Number:** M/182/88903
**Report No.:** 107502.1
**#Date Tak'n:** Tue, 4th May 2021 00:00
**Date Rec'd:** Fri, 7th May 2021

Items Marked ¤ are not included in the UKAS Schedule

| Sample ID | #Description & Temperatures | Analysis | Result | Tested | Notes / Species |
|---|---|---|---|---|---|
| **SL402290**<br>*Miscellaneous* | 1860804 Upstream High Tide<br>**Init Temp ¤** **Temp > 1 Min ¤** **Temp > 2 Min ¤** | E.Coli ¤ | 1733 MPN/100ml | 07/05/2021 | |
| | | Enterococci ¤ | 13 cfu/100ml | 07/05/2021 | |
| **SL402291**<br>*Miscellaneous* | 1860805 Midstream High Tide<br>**Init Temp ¤** **Temp > 1 Min ¤** **Temp > 2 Min ¤** | E.Coli ¤ | 1553 MPN/100ml | 07/05/2021 | |
| | | Enterococci ¤ | 24 cfu/100ml | 07/05/2021 | |
| **SL402292**<br>*Miscellaneous* | 1860806 Downstream High Tide<br>**Init Temp ¤** **Temp > 1 Min ¤** **Temp > 2 Min ¤** | E.Coli ¤ | 1300 MPN/100ml | 07/05/2021 | |
| | | Enterococci ¤ | 21 cfu/100ml | 07/05/2021 | |
| **SL402293**<br>*Miscellaneous* | 1860807 Upstream Low Tide<br>**Init Temp ¤** **Temp > 1 Min ¤** **Temp > 2 Min ¤** | E.Coli ¤ | 1553 MPN/100ml | 07/05/2021 | |
| | | Enterococci ¤ | 54 cfu/100ml | 07/05/2021 | |
| **SL402294**<br>*Miscellaneous* | 1860808 Midstream Low Tide<br>**Init Temp ¤** **Temp > 1 Min ¤** **Temp > 2 Min ¤** | E.Coli ¤ | 1414 MPN/100ml | 07/05/2021 | |
| | | Enterococci ¤ | 53 cfu/100ml | 07/05/2021 | |
| **SL402295**<br>*Miscellaneous* | 1860809 Downstream Low Tide<br>**Init Temp ¤** **Temp > 1 Min ¤** **Temp > 2 Min ¤** | E.Coli ¤ | 2420 MPN/100ml | 07/05/2021 | |
| | | Enterococci ¤ | 29 cfu/100ml | 07/05/2021 | |

Method Codes
SLM/B312/M - Coliforms and Escherichia coli
SLM/B370/M - Enterococci

Legend & Footnotes
cfu = Colony Forming Units
mpn = Most Probable Number
TNTC = Too Numerous to Count
#Information supplied by the customer and can affect the validity of results.
Sampling is not included in our UKAS Schedule.
All Samples Analysed as received.

Test report authorised by :
B.Patel

Director
Date: 12/05/2021 16:05:46

Test Report checked by : Vasilena Petrova Ivanova 10/05/2021 15:10:14

Disclaimer
Results relate to water samples tested and should not be reproduced except in full, without the written approval of the laboratory. Interpretations and opinions are not included in our UKAS schedule.
00:00 means time not declared.

NON LEGIONELLA SAMPLES RECEIVED OUTSIDE OF 24 HOURS. THEREFORE RESULTS MAY BE INVALID.


SLIMS.R.2 - BACTERIOLOGICAL Test Report v8 issued on 12/05/21 by BP
Reg. Office: Unit 9-10 Riverside Ind. Estate, 27 Thames Road, Barking, Essex, IG11 0ND
Reg. in England No. 7270283

# BACTERIOLOGICAL TEST REPORT

| | |
|---|---|
| **Client:** | **i2 Analytical LTD** |
| **#Address:** | 7 Woodshots Meadow<br>Croxley Green Business Park<br>Croxley Green<br>Hertfordshire<br>WD18 8YS |
| **#Site:** | 21-73080 |
| **#FAO:** | Trevor Hill |
| **#Order No:** | 13797,21-73080 |

| | |
|---|---|
| **Job Number:** | **M/182/88903** |
| **Report No.:** | **107502.1** |
| **#Date Tak'n:** | Tue, 4th May 2021 00:00 |
| **Date Rec'd:** | Fri, 7th May 2021 |

Stansted Laboratories LTD

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Directors: B. Patel, K.Patel

**-------- END OF REPORT --------**

**Supersedes report 107418.1 as client has requested changed to the description.**



Reg. Office: Unit 9-10 Riverside Ind. Estate, 27 Thames Road, Barking, Essex, IG11 0ND
Reg. in England No. 7270283

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**t:** 01923 225404
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**e:** reception@i2analytical.com

# Analytical Report Number : 21-73080

| | | | |
|---|---|---|---|
| **Project / Site name:** | Brockhampton West, Havant | **Samples received on:** | 06/05/2021 |
| **Your job number:** | 19-2099.04 | **Samples instructed on/ Analysis started on:** | 06/05/2021 |
| **Your order number:** | DS59990 | **Analysis completed by:** | 12/05/2021 |
| **Report Issue Number:** | 1 | **Report issued on:** | 12/05/2021 |
| **Samples Analysed:** | 22 water samples | | |

**Signed:**

Joanna Wawrzeczko
Technical Reviewer (Reporting Team)
**For & on behalf of i2 Analytical Ltd.**

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils - 4 weeks from reporting
leachates - 2 weeks from reporting
waters - 2 weeks from reporting
asbestos - 6 months from reporting

Excel copies of reports are only valid when accompanied by this PDF certificate.

Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement.
Application of uncertainty of measurement would provide a range within which the true result lies.
An estimate of measurement uncertainty can be provided on request.

This certificate should not be reproduced, except in full, without the express permission of the laboratory.
The results included within the report are representative of the samples submitted for analysis.

**Analytical Report Number: 21-73080**
**Project / Site name: Brockhampton West, Havant**

**Your Order No: DS59990**

| Lab Sample Number | | | | 1860789 | 1860790 | 1860791 | 1860792 | 1860793 |
|---|---|---|---|---|---|---|---|---|
| Sample Reference | | | | RO101 (D) | RO102 (D) | RO103 (D) | RO104 (D) | RO105 (D) |
| Sample Number | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Depth (m) | | | | 15.00 | 15.00 | 15.00 | 16.00 | 15.00 |
| Date Sampled | | | | 04/05/2021 | 04/05/2021 | 04/05/2021 | 04/05/2021 | 04/05/2021 |
| Time Taken | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| **Analytical Parameter (Water Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | | | | | |
| **General Inorganics** | | | | | | | | |
| pH | pH Units | N/A | ISO 17025 | 6.8 | 6.9 | 7.3 | 7.2 | 7.0 |
| Sulphate as SO4 | µg/l | 45 | ISO 17025 | 58700 | 38000 | 13000 | 25500 | 15200 |
| Total Sulphur | µg/l | 15 | NONE | 20000 | - | 4300 | - | 5100 |
| Chloride | mg/l | 0.15 | ISO 17025 | 770 | 120 | 71 | 28 | 100 |
| Total Phosphate as P | µg/l | 20 | ISO 17025 | < 20 | - | < 20 | - | - |
| Ammoniacal Nitrogen as NH3 | µg/l | 15 | ISO 17025 | 88000 | 14000 | 26 | 120 | 26000 |
| Ammoniacal Nitrogen as NH4 | µg/l | 15 | ISO 17025 | 93000 | - | 27 | - | 27000 |
| Nitrate as N | mg/l | 0.01 | ISO 17025 | 0.57 | 1.97 | 0.54 | 4.81 | 0.08 |
| Nitrate as NO3 | mg/l | 0.05 | ISO 17025 | 2.54 | 8.71 | 2.39 | 21.3 | 0.36 |
| Nitrite as N | µg/l | 1 | ISO 17025 | < 1.0 | 130 | 88 | 35 | < 1.0 |
| Nitrite as NO2 | µg/l | 5 | ISO 17025 | < 5.0 | 410 | 290 | 120 | < 5.0 |
| Chemical Oxygen Demand (Total) | mg/l | 2 | ISO 17025 | - | - | - | - | - |
| BOD (Biochemical Oxygen Demand) (Total) - PL | mg/l | 1 | ISO 17025 | - | - | - | - | - |
| **Total Phenols** | | | | | | | | |
| Total Phenols (monohydric) | µg/l | 10 | ISO 17025 | - | - | - | - | - |
| **Speciated PAHs** | | | | | | | | |
| Naphthalene | µg/l | 0.01 | ISO 17025 | 0.78 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Acenaphthylene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Acenaphthene | µg/l | 0.01 | ISO 17025 | 3.63 | < 0.01 | < 0.01 | < 0.01 | 0.83 |
| Fluorene | µg/l | 0.01 | ISO 17025 | 1.52 | < 0.01 | < 0.01 | < 0.01 | 0.52 |
| Phenanthrene | µg/l | 0.01 | ISO 17025 | 0.35 | < 0.01 | < 0.01 | < 0.01 | 0.51 |
| Anthracene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Fluoranthene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Pyrene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Benzo(a)anthracene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Chrysene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Benzo(b)fluoranthene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Benzo(k)fluoranthene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Benzo(a)pyrene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Indeno(1,2,3-cd)pyrene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Dibenz(a,h)anthracene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Benzo(ghi)perylene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| **Total PAH** | | | | | | | | |
| Total EPA-16 PAHs | µg/l | 0.16 | ISO 17025 | 6.28 | < 0.16 | < 0.16 | < 0.16 | 1.86 |

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The results included within the report are representative of the samples submitted for analysis.

**Analytical Report Number: 21-73080**
**Project / Site name: Brockhampton West, Havant**

**Your Order No: DS59990**

| Lab Sample Number | | | | 1860789 | 1860790 | 1860791 | 1860792 | 1860793 |
|---|---|---|---|---|---|---|---|---|
| Sample Reference | | | | RO101 (D) | RO102 (D) | RO103 (D) | RO104 (D) | RO105 (D) |
| Sample Number | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Depth (m) | | | | 15.00 | 15.00 | 15.00 | 16.00 | 15.00 |
| Date Sampled | | | | 04/05/2021 | 04/05/2021 | 04/05/2021 | 04/05/2021 | 04/05/2021 |
| Time Taken | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| **Analytical Parameter (Water Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | | | | | |
| **Heavy Metals / Metalloids** | | | | | | | | |
| Chromium (hexavalent) | µg/l | 5 | ISO 17025 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 |
| Magnesium (dissolved) | mg/l | 0.005 | ISO 17025 | 85 | - | 6.5 | - | 26 |
| Arsenic (dissolved) | µg/l | 0.15 | ISO 17025 | 15.1 | 1.84 | 2.60 | 0.66 | 7.74 |
| Cadmium (dissolved) | µg/l | 0.02 | ISO 17025 | < 0.02 | 0.05 | < 0.02 | < 0.02 | < 0.02 |
| Chromium (dissolved) | µg/l | 0.2 | ISO 17025 | 5.9 | 5.2 | 2.1 | 1.9 | 5.8 |
| Copper (dissolved) | µg/l | 0.5 | ISO 17025 | 9.8 | 4.4 | 1.1 | 0.6 | 1.7 |
| Lead (dissolved) | µg/l | 0.2 | ISO 17025 | < 0.2 | 0.7 | < 0.2 | 0.4 | < 0.2 |
| Mercury (dissolved) | µg/l | 0.05 | ISO 17025 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Nickel (dissolved) | µg/l | 0.5 | ISO 17025 | 9.8 | 19 | 5.3 | 3.9 | 10 |
| Zinc (dissolved) | µg/l | 0.5 | ISO 17025 | < 0.5 | 230 | 4.7 | 5.5 | 1.7 |
| **Monoaromatics & Oxygenates** | | | | | | | | |
| Benzene | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| Toluene | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| Ethylbenzene | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| p & m-xylene | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| o-xylene | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| MTBE (Methyl Tertiary Butyl Ether) | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| **Petroleum Hydrocarbons** | | | | | | | | |
| TPH-CWG - Aliphatic >C5 - C6 | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| TPH-CWG - Aliphatic >C6 - C8 | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| TPH-CWG - Aliphatic >C8 - C10 | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| Aliphatic >C10 - C12 | µg/l | 10 | ISO 17025 | < 10 | < 10 | < 10 | < 10 | < 10 |
| Aliphatic >C12 - C16 | µg/l | 10 | ISO 17025 | < 10 | < 10 | < 10 | < 10 | < 10 |
| Aliphatic >C16 - C21 | µg/l | 10 | ISO 17025 | < 10 | < 10 | < 10 | < 10 | < 10 |
| Aliphatic >C21 - C35 | µg/l | 10 | ISO 17025 | < 10 | < 10 | < 10 | < 10 | < 10 |
| Aliphatic >C10 - C35 | µg/l | 10 | ISO 17025 | < 10 | < 10 | < 10 | < 10 | < 10 |
| TPH-CWG - Aromatic >C5 - C7 | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| TPH-CWG - Aromatic >C7 - C8 | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| TPH-CWG - Aromatic >C8 - C10 | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| Aromatic >C10 - C12 | µg/l | 10 | ISO 17025 | < 10 | < 10 | < 10 | < 10 | < 10 |
| Aromatic >C12 - C16 | µg/l | 10 | ISO 17025 | < 10 | < 10 | < 10 | < 10 | < 10 |
| Aromatic >C16 - C21 | µg/l | 10 | ISO 17025 | < 10 | < 10 | < 10 | < 10 | < 10 |
| Aromatic >C21 - C35 | µg/l | 10 | ISO 17025 | < 10 | < 10 | < 10 | < 10 | < 10 |
| Aromatic >C10 - C35 | µg/l | 10 | ISO 17025 | < 10 | < 10 | < 10 | < 10 | < 10 |
| **Gases** | | | | | | | | |
| Methane | mg/L | 0.1 | NONE | - | - | - | - | - |

**Analytical Report Number: 21-73080**
**Project / Site name: Brockhampton West, Havant**

**Your Order No: DS59990**

| **Lab Sample Number** | | | | 1860789 | 1860790 | 1860791 | 1860792 | 1860793 |
|---|---|---|---|---|---|---|---|---|
| **Sample Reference** | | | | RO101 (D) | RO102 (D) | RO103 (D) | RO104 (D) | RO105 (D) |
| **Sample Number** | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| **Depth (m)** | | | | 15.00 | 15.00 | 15.00 | 16.00 | 15.00 |
| **Date Sampled** | | | | 04/05/2021 | 04/05/2021 | 04/05/2021 | 04/05/2021 | 04/05/2021 |
| **Time Taken** | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| **Analytical Parameter (Water Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | | | | | |
| **Microbiological (Subcontracted)** | | | | | | | | |
| E. Coli | | 1 | NONE | - | - | - | - | - |
| Intestinal Enterobacteria | cfu/ml | N/A | NONE | - | - | - | - | - |

U/S = Unsuitable Sample  I/S = Insufficient Sample

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The results included within the report are representative of the samples submitted for analysis.

**Analytical Report Number: 21-73080**
**Project / Site name: Brockhampton West, Havant**

**Your Order No: DS59990**

| Lab Sample Number | | | | 1860794 | 1860795 | 1860796 | 1860797 | 1860798 |
|---|---|---|---|---|---|---|---|---|
| Sample Reference | | | | RO106 (D) | RO108 | RO109 | DS101 | DS102 |
| Sample Number | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Depth (m) | | | | 17.00 | 14.00 | 14.00 | 14.95 | 11.00 |
| Date Sampled | | | | 04/05/2021 | 04/05/2021 | 04/05/2021 | 04/05/2021 | 04/05/2021 |
| Time Taken | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| **Analytical Parameter (Water Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | | | | | |
| **General Inorganics** | | | | | | | | |
| pH | pH Units | N/A | ISO 17025 | 7.0 | 7.1 | 7.1 | 6.9 | 6.8 |
| Sulphate as SO4 | µg/l | 45 | ISO 17025 | 37900 | 54100 | 19900 | 6310 | 10800 |
| Total Sulphur | µg/l | 15 | NONE | - | - | 6600 | 2100 | 3600 |
| Chloride | mg/l | 0.15 | ISO 17025 | 480 | 330 | 87 | 460 | 2600 |
| Total Phosphate as P | µg/l | 20 | ISO 17025 | < 20 | - | - | - | - |
| Ammoniacal Nitrogen as NH3 | µg/l | 15 | ISO 17025 | 13000 | 17000 | 14000 | 63000 | 150000 |
| Ammoniacal Nitrogen as NH4 | µg/l | 15 | ISO 17025 | - | - | 15000 | 66000 | 160000 |
| Nitrate as N | mg/l | 0.01 | ISO 17025 | 0.09 | 3.07 | 7.00 | 0.18 | 0.41 |
| Nitrate as NO3 | mg/l | 0.05 | ISO 17025 | 0.42 | 13.6 | 31.0 | 0.78 | 1.82 |
| Nitrite as N | µg/l | 1 | ISO 17025 | < 1.0 | 100 | 190 | < 1.0 | < 1.0 |
| Nitrite as NO2 | µg/l | 5 | ISO 17025 | < 5.0 | 330 | 630 | < 5.0 | < 5.0 |
| Chemical Oxygen Demand (Total) | mg/l | 2 | ISO 17025 | - | - | - | - | - |
| BOD (Biochemical Oxygen Demand) (Total) - PL | mg/l | 1 | ISO 17025 | - | - | - | - | - |
| **Total Phenols** | | | | | | | | |
| Total Phenols (monohydric) | µg/l | 10 | ISO 17025 | - | - | - | - | - |
| **Speciated PAHs** | | | | | | | | |
| Naphthalene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Acenaphthylene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Acenaphthene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Fluorene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Phenanthrene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Anthracene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Fluoranthene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Pyrene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Benzo(a)anthracene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Chrysene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Benzo(b)fluoranthene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Benzo(k)fluoranthene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Benzo(a)pyrene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Indeno(1,2,3-cd)pyrene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Dibenz(a,h)anthracene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Benzo(ghi)perylene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| **Total PAH** | | | | | | | | |
| Total EPA-16 PAHs | µg/l | 0.16 | ISO 17025 | < 0.16 | < 0.16 | < 0.16 | < 0.16 | < 0.16 |

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The results included within the report are representative of the samples submitted for analysis.

**Analytical Report Number: 21-73080**
**Project / Site name: Brockhampton West, Havant**

**Your Order No: DS59990**

| Lab Sample Number | | | | 1860794 | 1860795 | 1860796 | 1860797 | 1860798 |
|---|---|---|---|---|---|---|---|---|
| Sample Reference | | | | RO106 (D) | RO108 | RO109 | DS101 | DS102 |
| Sample Number | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Depth (m) | | | | 17.00 | 14.00 | 14.00 | 14.95 | 11.00 |
| Date Sampled | | | | 04/05/2021 | 04/05/2021 | 04/05/2021 | 04/05/2021 | 04/05/2021 |
| Time Taken | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| **Analytical Parameter (Water Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | | | | | |
| **Heavy Metals / Metalloids** | | | | | | | | |
| Chromium (hexavalent) | µg/l | 5 | ISO 17025 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 |
| Magnesium (dissolved) | mg/l | 0.005 | ISO 17025 | - | - | 12 | 42 | 190 |
| Arsenic (dissolved) | µg/l | 0.15 | ISO 17025 | 13.3 | 2.48 | 0.73 | 6.54 | 9.26 |
| Cadmium (dissolved) | µg/l | 0.02 | ISO 17025 | < 0.02 | < 0.02 | < 0.02 | < 0.02 | < 0.02 |
| Chromium (dissolved) | µg/l | 0.2 | ISO 17025 | 4.3 | 4.0 | 3.1 | 8.0 | 8.8 |
| Copper (dissolved) | µg/l | 0.5 | ISO 17025 | 2.7 | 6.4 | 5.4 | 8.7 | 8.4 |
| Lead (dissolved) | µg/l | 0.2 | ISO 17025 | < 0.2 | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Mercury (dissolved) | µg/l | 0.05 | ISO 17025 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Nickel (dissolved) | µg/l | 0.5 | ISO 17025 | 35 | 13 | 12 | 33 | 19 |
| Zinc (dissolved) | µg/l | 0.5 | ISO 17025 | < 0.5 | 3.4 | 7.0 | 5.0 | 2.3 |
| **Monoaromatics & Oxygenates** | | | | | | | | |
| Benzene | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| Toluene | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| Ethylbenzene | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| p & m-xylene | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| o-xylene | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| MTBE (Methyl Tertiary Butyl Ether) | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| **Petroleum Hydrocarbons** | | | | | | | | |
| TPH-CWG - Aliphatic >C5 - C6 | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| TPH-CWG - Aliphatic >C6 - C8 | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| TPH-CWG - Aliphatic >C8 - C10 | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| Aliphatic >C10 - C12 | µg/l | 10 | ISO 17025 | < 10 | < 10 | < 10 | < 10 | < 10 |
| Aliphatic >C12 - C16 | µg/l | 10 | ISO 17025 | < 10 | < 10 | < 10 | < 10 | < 10 |
| Aliphatic >C16 - C21 | µg/l | 10 | ISO 17025 | < 10 | < 10 | < 10 | < 10 | < 10 |
| Aliphatic >C21 - C35 | µg/l | 10 | ISO 17025 | < 10 | < 10 | < 10 | < 10 | < 10 |
| Aliphatic >C10 - C35 | µg/l | 10 | ISO 17025 | < 10 | < 10 | < 10 | < 10 | < 10 |
| TPH-CWG - Aromatic >C5 - C7 | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| TPH-CWG - Aromatic >C7 - C8 | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| TPH-CWG - Aromatic >C8 - C10 | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| Aromatic >C10 - C12 | µg/l | 10 | ISO 17025 | < 10 | < 10 | < 10 | < 10 | < 10 |
| Aromatic >C12 - C16 | µg/l | 10 | ISO 17025 | < 10 | < 10 | < 10 | < 10 | < 10 |
| Aromatic >C16 - C21 | µg/l | 10 | ISO 17025 | < 10 | < 10 | < 10 | < 10 | < 10 |
| Aromatic >C21 - C35 | µg/l | 10 | ISO 17025 | < 10 | < 10 | < 10 | < 10 | < 10 |
| Aromatic >C10 - C35 | µg/l | 10 | ISO 17025 | < 10 | < 10 | < 10 | < 10 | < 10 |
| **Gases** | | | | | | | | |
| Methane | mg/L | 0.1 | NONE | - | - | - | - | - |

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The results included within the report are representative of the samples submitted for analysis.

**Analytical Report Number: 21-73080**
**Project / Site name: Brockhampton West, Havant**

**Your Order No: DS59990**

| **Lab Sample Number** | | | | 1860794 | 1860795 | 1860796 | 1860797 | 1860798 |
|---|---|---|---|---|---|---|---|---|
| **Sample Reference** | | | | RO106 (D) | RO108 | RO109 | DS101 | DS102 |
| **Sample Number** | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| **Depth (m)** | | | | 17.00 | 14.00 | 14.00 | 14.95 | 11.00 |
| **Date Sampled** | | | | 04/05/2021 | 04/05/2021 | 04/05/2021 | 04/05/2021 | 04/05/2021 |
| **Time Taken** | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| **Analytical Parameter (Water Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | | | | | |
| **Microbiological (Subcontracted)** | | | | | | | | |
| E. Coli | | 1 | NONE | - | - | - | - | - |
| Intestinal Enterobacteria | cfu/ml | N/A | NONE | - | - | - | - | - |

U/S = Unsuitable Sample  I/S = Insufficient Sample

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The results included within the report are representative of the samples submitted for analysis.

**Analytical Report Number: 21-73080**
**Project / Site name: Brockhampton West, Havant**

**Your Order No: DS59990**

| Lab Sample Number | | | | 1860799 | 1860800 | 1860801 | 1860802 | 1860803 |
|---|---|---|---|---|---|---|---|---|
| Sample Reference | | | | DS103 | CP02A (S) | CP02A (D) | CP03 (S) | CP05 |
| Sample Number | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Depth (m) | | | | 11.00 | 9.00 | 17.00 | 8.00 | 8.00 |
| Date Sampled | | | | 04/05/2021 | 04/05/2021 | 04/05/2021 | 04/05/2021 | 04/05/2021 |
| Time Taken | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| **Analytical Parameter (Water Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | | | | | |
| **General Inorganics** | | | | | | | | |
| pH | pH Units | N/A | ISO 17025 | 6.9 | 6.9 | 6.9 | 6.8 | 6.8 |
| Sulphate as SO4 | µg/l | 45 | ISO 17025 | 15700 | 38600 | 44900 | 6070 | 6390 |
| Total Sulphur | µg/l | 15 | NONE | 5200 | 13000 | - | 2000 | 2100 |
| Chloride | mg/l | 0.15 | ISO 17025 | 330 | 570 | 650 | 150 | 140 |
| Total Phosphate as P | µg/l | 20 | ISO 17025 | - | < 20 | - | < 20 | < 20 |
| Ammoniacal Nitrogen as NH3 | µg/l | 15 | ISO 17025 | 110000 | 66000 | 66000 | 20000 | 69000 |
| Ammoniacal Nitrogen as NH4 | µg/l | 15 | ISO 17025 | 120000 | 69000 | - | 22000 | 73000 |
| Nitrate as N | mg/l | 0.01 | ISO 17025 | 0.22 | 0.75 | 0.33 | 0.08 | 0.15 |
| Nitrate as NO3 | mg/l | 0.05 | ISO 17025 | 0.99 | 3.32 | 1.45 | 0.36 | 0.67 |
| Nitrite as N | µg/l | 1 | ISO 17025 | < 1.0 | 10 | 31 | < 1.0 | < 1.0 |
| Nitrite as NO2 | µg/l | 5 | ISO 17025 | < 5.0 | 33 | 100 | < 5.0 | < 5.0 |
| Chemical Oxygen Demand (Total) | mg/l | 2 | ISO 17025 | - | - | - | - | - |
| BOD (Biochemical Oxygen Demand) (Total) - PL | mg/l | 1 | ISO 17025 | - | - | - | - | - |
| **Total Phenols** | | | | | | | | |
| Total Phenols (monohydric) | µg/l | 10 | ISO 17025 | - | - | - | - | - |
| **Speciated PAHs** | | | | | | | | |
| Naphthalene | µg/l | 0.01 | ISO 17025 | < 0.01 | 1.29 | < 0.01 | < 0.01 | < 0.01 |
| Acenaphthylene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Acenaphthene | µg/l | 0.01 | ISO 17025 | < 0.01 | 4.02 | < 0.01 | < 0.01 | < 0.01 |
| Fluorene | µg/l | 0.01 | ISO 17025 | < 0.01 | 1.81 | < 0.01 | < 0.01 | < 0.01 |
| Phenanthrene | µg/l | 0.01 | ISO 17025 | < 0.01 | 1.56 | < 0.01 | < 0.01 | < 0.01 |
| Anthracene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Fluoranthene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Pyrene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Benzo(a)anthracene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Chrysene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Benzo(b)fluoranthene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Benzo(k)fluoranthene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Benzo(a)pyrene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Indeno(1,2,3-cd)pyrene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Dibenz(a,h)anthracene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Benzo(ghi)perylene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| **Total PAH** | | | | | | | | |
| Total EPA-16 PAHs | µg/l | 0.16 | ISO 17025 | < 0.16 | 8.68 | < 0.16 | < 0.16 | < 0.16 |

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The results included within the report are representative of the samples submitted for analysis.

**Analytical Report Number: 21-73080**
**Project / Site name: Brockhampton West, Havant**

**Your Order No: DS59990**

| Lab Sample Number | | | | 1860799 | 1860800 | 1860801 | 1860802 | 1860803 |
|---|---|---|---|---|---|---|---|---|
| Sample Reference | | | | DS103 | CP02A (S) | CP02A (D) | CP03 (S) | CP05 |
| Sample Number | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Depth (m) | | | | 11.00 | 9.00 | 17.00 | 8.00 | 8.00 |
| Date Sampled | | | | 04/05/2021 | 04/05/2021 | 04/05/2021 | 04/05/2021 | 04/05/2021 |
| Time Taken | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| **Analytical Parameter (Water Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | | | | | |
| **Heavy Metals / Metalloids** | | | | | | | | |
| Chromium (hexavalent) | µg/l | 5 | ISO 17025 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 |
| Magnesium (dissolved) | mg/l | 0.005 | ISO 17025 | 64 | 82 | - | 30 | 45 |
| Arsenic (dissolved) | µg/l | 0.15 | ISO 17025 | 4.68 | 4.46 | 7.39 | 1.80 | 0.91 |
| Cadmium (dissolved) | µg/l | 0.02 | ISO 17025 | < 0.02 | < 0.02 | < 0.02 | < 0.02 | < 0.02 |
| Chromium (dissolved) | µg/l | 0.2 | ISO 17025 | 6.4 | 6.0 | 6.4 | 6.8 | 6.0 |
| Copper (dissolved) | µg/l | 0.5 | ISO 17025 | 3.9 | 6.3 | 11 | 3.3 | 6.0 |
| Lead (dissolved) | µg/l | 0.2 | ISO 17025 | < 0.2 | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Mercury (dissolved) | µg/l | 0.05 | ISO 17025 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Nickel (dissolved) | µg/l | 0.5 | ISO 17025 | 13 | 13 | 8.4 | 6.1 | 6.7 |
| Zinc (dissolved) | µg/l | 0.5 | ISO 17025 | 4.3 | 10 | 4.8 | 1.2 | 27 |
| **Monoaromatics & Oxygenates** | | | | | | | | |
| Benzene | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| Toluene | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| Ethylbenzene | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| p & m-xylene | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| o-xylene | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| MTBE (Methyl Tertiary Butyl Ether) | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| **Petroleum Hydrocarbons** | | | | | | | | |
| TPH-CWG - Aliphatic >C5 - C6 | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| TPH-CWG - Aliphatic >C6 - C8 | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| TPH-CWG - Aliphatic >C8 - C10 | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| Aliphatic >C10 - C12 | µg/l | 10 | ISO 17025 | < 10 | < 10 | < 10 | < 10 | < 10 |
| Aliphatic >C12 - C16 | µg/l | 10 | ISO 17025 | < 10 | < 10 | < 10 | < 10 | < 10 |
| Aliphatic >C16 - C21 | µg/l | 10 | ISO 17025 | < 10 | < 10 | < 10 | < 10 | < 10 |
| Aliphatic >C21 - C35 | µg/l | 10 | ISO 17025 | < 10 | < 10 | < 10 | < 10 | < 10 |
| Aliphatic >C10 - C35 | µg/l | 10 | ISO 17025 | < 10 | < 10 | < 10 | < 10 | < 10 |
| TPH-CWG - Aromatic >C5 - C7 | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| TPH-CWG - Aromatic >C7 - C8 | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| TPH-CWG - Aromatic >C8 - C10 | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| Aromatic >C10 - C12 | µg/l | 10 | ISO 17025 | < 10 | < 10 | < 10 | < 10 | < 10 |
| Aromatic >C12 - C16 | µg/l | 10 | ISO 17025 | < 10 | < 10 | < 10 | < 10 | < 10 |
| Aromatic >C16 - C21 | µg/l | 10 | ISO 17025 | < 10 | < 10 | < 10 | < 10 | < 10 |
| Aromatic >C21 - C35 | µg/l | 10 | ISO 17025 | < 10 | < 10 | < 10 | < 10 | < 10 |
| Aromatic >C10 - C35 | µg/l | 10 | ISO 17025 | < 10 | < 10 | < 10 | < 10 | < 10 |
| **Gases** | | | | | | | | |
| Methane | mg/L | 0.1 | NONE | - | 4.1 | - | 6.0 | 8.8 |

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**Analytical Report Number: 21-73080**
**Project / Site name: Brockhampton West, Havant**

**Your Order No: DS59990**

| **Lab Sample Number** | | | | 1860799 | 1860800 | 1860801 | 1860802 | 1860803 |
|---|---|---|---|---|---|---|---|---|
| **Sample Reference** | | | | DS103 | CP02A (S) | CP02A (D) | CP03 (S) | CP05 |
| **Sample Number** | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| **Depth (m)** | | | | 11.00 | 9.00 | 17.00 | 8.00 | 8.00 |
| **Date Sampled** | | | | 04/05/2021 | 04/05/2021 | 04/05/2021 | 04/05/2021 | 04/05/2021 |
| **Time Taken** | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| **Analytical Parameter (Water Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | | | | | |
| **Microbiological (Subcontracted)** | | | | | | | | |
| E. Coli | | 1 | NONE | - | - | - | - | - |
| Intestinal Enterobacteria | cfu/ml | N/A | NONE | - | - | - | - | - |

U/S = Unsuitable Sample  I/S = Insufficient Sample

**Analytical Report Number: 21-73080**
**Project / Site name: Brockhampton West, Havant**

**Your Order No: DS59990**

| Lab Sample Number | | | | 1860804 | 1860805 | 1860806 | 1860807 | 1860808 |
|---|---|---|---|---|---|---|---|---|
| Sample Reference | | | | Upstream High Tide | Midstream High Tide | Downstream High Tide | Upstream Low Tide | Midstream Low Tide |
| Sample Number | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Depth (m) | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Date Sampled | | | | 04/05/2021 | 04/05/2021 | 04/05/2021 | 04/05/2021 | 04/05/2021 |
| Time Taken | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| **Analytical Parameter (Water Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | | | | | |
| **General Inorganics** | | | | | | | | |
| pH | pH Units | N/A | ISO 17025 | 7.7 | 7.7 | 7.7 | 7.8 | 7.9 |
| Sulphate as SO4 | µg/l | 45 | ISO 17025 | 94200 | 1830000 | 31000 | 32200 | 33000 |
| Total Sulphur | µg/l | 15 | NONE | - | - | - | - | - |
| Chloride | mg/l | 0.15 | ISO 17025 | 740 | 11000 | 120 | 120 | 130 |
| Total Phosphate as P | µg/l | 20 | ISO 17025 | < 20 | < 20 | < 20 | < 20 | < 20 |
| Ammoniacal Nitrogen as NH3 | µg/l | 15 | ISO 17025 | 48 | 31 | 18 | 15 | 100 |
| Ammoniacal Nitrogen as NH4 | µg/l | 15 | ISO 17025 | - | - | - | - | - |
| Nitrate as N | mg/l | 0.01 | ISO 17025 | 6.37 | 6.17 | 7.60 | 7.13 | 7.24 |
| Nitrate as NO3 | mg/l | 0.05 | ISO 17025 | 28.2 | 27.3 | 33.7 | 31.6 | 32.1 |
| Nitrite as N | µg/l | 1 | ISO 17025 | 11 | 5.6 | 5.8 | 15 | 15 |
| Nitrite as NO2 | µg/l | 5 | ISO 17025 | 35 | 19 | 19 | 48 | 50 |
| Chemical Oxygen Demand (Total) | mg/l | 2 | ISO 17025 | 16 | 21 | 4.4 | 9.6 | 7.7 |
| BOD (Biochemical Oxygen Demand) (Total) - PL | mg/l | 1 | ISO 17025 | 3.5 | 1.5 | 1.9 | 1.4 | 1.3 |
| **Total Phenols** | | | | | | | | |
| Total Phenols (monohydric) | µg/l | 10 | ISO 17025 | < 10 | 33 | < 10 | < 10 | < 10 |
| **Speciated PAHs** | | | | | | | | |
| Naphthalene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Acenaphthylene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Acenaphthene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Fluorene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Phenanthrene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Anthracene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Fluoranthene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Pyrene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Benzo(a)anthracene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Chrysene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Benzo(b)fluoranthene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Benzo(k)fluoranthene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Benzo(a)pyrene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Indeno(1,2,3-cd)pyrene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Dibenz(a,h)anthracene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Benzo(ghi)perylene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| **Total PAH** | | | | | | | | |
| Total EPA-16 PAHs | µg/l | 0.16 | ISO 17025 | < 0.16 | < 0.16 | < 0.16 | < 0.16 | < 0.16 |

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The results included within the report are representative of the samples submitted for analysis.

**Analytical Report Number: 21-73080**
**Project / Site name: Brockhampton West, Havant**

**Your Order No: DS59990**

| Lab Sample Number | | | | 1860804 | 1860805 | 1860806 | 1860807 | 1860808 |
|---|---|---|---|---|---|---|---|---|
| Sample Reference | | | | Upstream High Tide | Midstream High Tide | Downstream High Tide | Upstream Low Tide | Midstream Low Tide |
| Sample Number | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Depth (m) | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Date Sampled | | | | 04/05/2021 | 04/05/2021 | 04/05/2021 | 04/05/2021 | 04/05/2021 |
| Time Taken | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| **Analytical Parameter (Water Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | | | | | |
| **Heavy Metals / Metalloids** | | | | | | | | |
| Chromium (hexavalent) | µg/l | 5 | ISO 17025 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 |
| Magnesium (dissolved) | mg/l | 0.005 | ISO 17025 | - | - | - | - | - |
| Arsenic (dissolved) | µg/l | 0.15 | ISO 17025 | 5.35 | 1.04 | 2.20 | 1.49 | 1.44 |
| Cadmium (dissolved) | µg/l | 0.02 | ISO 17025 | < 0.02 | < 0.02 | < 0.02 | < 0.02 | < 0.02 |
| Chromium (dissolved) | µg/l | 0.2 | ISO 17025 | 2.3 | 3.4 | 2.0 | 1.9 | 1.8 |
| Copper (dissolved) | µg/l | 0.5 | ISO 17025 | 6.8 | 2.5 | 9.4 | 6.4 | 5.1 |
| Lead (dissolved) | µg/l | 0.2 | ISO 17025 | < 0.2 | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Mercury (dissolved) | µg/l | 0.05 | ISO 17025 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Nickel (dissolved) | µg/l | 0.5 | ISO 17025 | 2.9 | 6.7 | 2.3 | 2.3 | 2.3 |
| Zinc (dissolved) | µg/l | 0.5 | ISO 17025 | 2.9 | 1.2 | 2.0 | 1.8 | 4.8 |
| **Monoaromatics & Oxygenates** | | | | | | | | |
| Benzene | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| Toluene | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| Ethylbenzene | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| p & m-xylene | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| o-xylene | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| MTBE (Methyl Tertiary Butyl Ether) | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| **Petroleum Hydrocarbons** | | | | | | | | |
| TPH-CWG - Aliphatic >C5 - C6 | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| TPH-CWG - Aliphatic >C6 - C8 | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| TPH-CWG - Aliphatic >C8 - C10 | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| Aliphatic >C10 - C12 | µg/l | 10 | ISO 17025 | < 10 | < 10 | < 10 | < 10 | < 10 |
| Aliphatic >C12 - C16 | µg/l | 10 | ISO 17025 | < 10 | < 10 | < 10 | < 10 | < 10 |
| Aliphatic >C16 - C21 | µg/l | 10 | ISO 17025 | < 10 | < 10 | < 10 | < 10 | < 10 |
| Aliphatic >C21 - C35 | µg/l | 10 | ISO 17025 | < 10 | < 10 | < 10 | < 10 | < 10 |
| Aliphatic >C10 - C35 | µg/l | 10 | ISO 17025 | < 10 | < 10 | < 10 | < 10 | < 10 |
| TPH-CWG - Aromatic >C5 - C7 | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| TPH-CWG - Aromatic >C7 - C8 | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| TPH-CWG - Aromatic >C8 - C10 | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| Aromatic >C10 - C12 | µg/l | 10 | ISO 17025 | < 10 | < 10 | < 10 | < 10 | < 10 |
| Aromatic >C12 - C16 | µg/l | 10 | ISO 17025 | < 10 | < 10 | < 10 | < 10 | < 10 |
| Aromatic >C16 - C21 | µg/l | 10 | ISO 17025 | < 10 | < 10 | < 10 | < 10 | < 10 |
| Aromatic >C21 - C35 | µg/l | 10 | ISO 17025 | < 10 | < 10 | < 10 | < 10 | < 10 |
| Aromatic >C10 - C35 | µg/l | 10 | ISO 17025 | < 10 | < 10 | < 10 | < 10 | < 10 |
| **Gases** | | | | | | | | |
| Methane | mg/L | 0.1 | NONE | - | - | - | - | - |

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The results included within the report are representative of the samples submitted for analysis.

**Analytical Report Number: 21-73080**
**Project / Site name: Brockhampton West, Havant**

**Your Order No: DS59990**

| **Lab Sample Number** | | | | 1860804 | 1860805 | 1860806 | 1860807 | 1860808 |
|---|---|---|---|---|---|---|---|---|
| **Sample Reference** | | | | Upstream High Tide | Midstream High Tide | Downstream High Tide | Upstream Low Tide | Midstream Low Tide |
| **Sample Number** | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| **Depth (m)** | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| **Date Sampled** | | | | 04/05/2021 | 04/05/2021 | 04/05/2021 | 04/05/2021 | 04/05/2021 |
| **Time Taken** | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| **Analytical Parameter (Water Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | | | | | |
| **Microbiological (Subcontracted)** | | | | | | | | |
| E. Coli | | 1 | NONE | See Attached | See Attached | See Attached | See Attached | See Attached |
| Intestinal Enterobacteria | cfu/ml | N/A | NONE | See Attached | See Attached | See Attached | See Attached | See Attached |

U/S = Unsuitable Sample  I/S = Insufficient Sample

**Analytical Report Number: 21-73080**
**Project / Site name: Brockhampton West, Havant**

**Your Order No: DS59990**

| Lab Sample Number | | | | 1860809 | 1861095 |
|---|---|---|---|---|---|
| Sample Reference | | | | Downstream Low Tide | RO107 (D) |
| Sample Number | | | | None Supplied | None Supplied |
| Depth (m) | | | | None Supplied | 15.00 |
| Date Sampled | | | | 04/05/2021 | 05/05/2021 |
| Time Taken | | | | None Supplied | None Supplied |
| **Analytical Parameter (Water Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | | |
| **General Inorganics** | | | | | |
| pH | pH Units | N/A | ISO 17025 | 7.9 | 7.2 |
| Sulphate as SO4 | µg/l | 45 | ISO 17025 | 47400 | 165000 |
| Total Sulphur | µg/l | 15 | NONE | - | - |
| Chloride | mg/l | 0.15 | ISO 17025 | 290 | 1200 |
| Total Phosphate as P | µg/l | 20 | ISO 17025 | < 20 | - |
| Ammoniacal Nitrogen as NH3 | µg/l | 15 | ISO 17025 | 87 | 40 |
| Ammoniacal Nitrogen as NH4 | µg/l | 15 | ISO 17025 | - | - |
| Nitrate as N | mg/l | 0.01 | ISO 17025 | 7.00 | 2.47 |
| Nitrate as NO3 | mg/l | 0.05 | ISO 17025 | 31.0 | 11.0 |
| Nitrite as N | µg/l | 1 | ISO 17025 | 23 | 2.4 |
| Nitrite as NO2 | µg/l | 5 | ISO 17025 | 74 | 8.0 |
| Chemical Oxygen Demand (Total) | mg/l | 2 | ISO 17025 | 18 | - |
| BOD (Biochemical Oxygen Demand) (Total) - PL | mg/l | 1 | ISO 17025 | 1.1 | - |
| **Total Phenols** | | | | | |
| Total Phenols (monohydric) | µg/l | 10 | ISO 17025 | < 10 | - |
| **Speciated PAHs** | | | | | |
| Naphthalene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 |
| Acenaphthylene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 |
| Acenaphthene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 |
| Fluorene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 |
| Phenanthrene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 |
| Anthracene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 |
| Fluoranthene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 |
| Pyrene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 |
| Benzo(a)anthracene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 |
| Chrysene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 |
| Benzo(b)fluoranthene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 |
| Benzo(k)fluoranthene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 |
| Benzo(a)pyrene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 |
| Indeno(1,2,3-cd)pyrene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 |
| Dibenz(a,h)anthracene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 |
| Benzo(ghi)perylene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 |
| **Total PAH** | | | | | |
| Total EPA-16 PAHs | µg/l | 0.16 | ISO 17025 | < 0.16 | < 0.16 |

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The results included within the report are representative of the samples submitted for analysis.

**Analytical Report Number: 21-73080**
**Project / Site name: Brockhampton West, Havant**

**Your Order No: DS59990**

| Lab Sample Number | | | | 1860809 | 1861095 |
|---|---|---|---|---|---|
| Sample Reference | | | | Downstream Low Tide | RO107 (D) |
| Sample Number | | | | None Supplied | None Supplied |
| Depth (m) | | | | None Supplied | 15.00 |
| Date Sampled | | | | 04/05/2021 | 05/05/2021 |
| Time Taken | | | | None Supplied | None Supplied |
| **Analytical Parameter (Water Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | | |
| **Heavy Metals / Metalloids** | | | | | |
| Chromium (hexavalent) | µg/l | 5 | ISO 17025 | < 5.0 | < 5.0 |
| Magnesium (dissolved) | mg/l | 0.005 | ISO 17025 | - | - |
| Arsenic (dissolved) | µg/l | 0.15 | ISO 17025 | 2.28 | 8.73 |
| Cadmium (dissolved) | µg/l | 0.02 | ISO 17025 | < 0.02 | 0.02 |
| Chromium (dissolved) | µg/l | 0.2 | ISO 17025 | 1.7 | 3.3 |
| Copper (dissolved) | µg/l | 0.5 | ISO 17025 | 5.0 | 15 |
| Lead (dissolved) | µg/l | 0.2 | ISO 17025 | < 0.2 | < 0.2 |
| Mercury (dissolved) | µg/l | 0.05 | ISO 17025 | < 0.05 | 0.87 |
| Nickel (dissolved) | µg/l | 0.5 | ISO 17025 | 2.4 | 19 |
| Zinc (dissolved) | µg/l | 0.5 | ISO 17025 | 3.3 | 5.0 |
| **Monoaromatics & Oxygenates** | | | | | |
| Benzene | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 |
| Toluene | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 |
| Ethylbenzene | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 |
| p & m-xylene | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 |
| o-xylene | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 |
| MTBE (Methyl Tertiary Butyl Ether) | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 |
| **Petroleum Hydrocarbons** | | | | | |
| TPH-CWG - Aliphatic >C5 - C6 | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 |
| TPH-CWG - Aliphatic >C6 - C8 | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 |
| TPH-CWG - Aliphatic >C8 - C10 | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 |
| Aliphatic >C10 - C12 | µg/l | 10 | ISO 17025 | < 10 | < 10 |
| Aliphatic >C12 - C16 | µg/l | 10 | ISO 17025 | < 10 | < 10 |
| Aliphatic >C16 - C21 | µg/l | 10 | ISO 17025 | < 10 | < 10 |
| Aliphatic >C21 - C35 | µg/l | 10 | ISO 17025 | < 10 | < 10 |
| Aliphatic >C10 - C35 | µg/l | 10 | ISO 17025 | < 10 | < 10 |
| TPH-CWG - Aromatic >C5 - C7 | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 |
| TPH-CWG - Aromatic >C7 - C8 | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 |
| TPH-CWG - Aromatic >C8 - C10 | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 |
| Aromatic >C10 - C12 | µg/l | 10 | ISO 17025 | < 10 | < 10 |
| Aromatic >C12 - C16 | µg/l | 10 | ISO 17025 | < 10 | < 10 |
| Aromatic >C16 - C21 | µg/l | 10 | ISO 17025 | < 10 | < 10 |
| Aromatic >C21 - C35 | µg/l | 10 | ISO 17025 | < 10 | < 10 |
| Aromatic >C10 - C35 | µg/l | 10 | ISO 17025 | < 10 | < 10 |
| **Gases** | | | | | |
| Methane | mg/L | 0.1 | NONE | - | - |

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The results included within the report are representative of the samples submitted for analysis.

**Analytical Report Number: 21-73080**
**Project / Site name: Brockhampton West, Havant**

**Your Order No: DS59990**

| **Lab Sample Number** | | | | 1860809 | 1861095 |
|---|---|---|---|---|---|
| **Sample Reference** | | | | Downstream Low Tide | RO107 (D) |
| **Sample Number** | | | | None Supplied | None Supplied |
| **Depth (m)** | | | | None Supplied | 15.00 |
| **Date Sampled** | | | | 04/05/2021 | 05/05/2021 |
| **Time Taken** | | | | None Supplied | None Supplied |
| **Analytical Parameter (Water Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | | |
| **Microbiological (Subcontracted)** | | | | | |
| E. Coli | | 1 | NONE | See Attached | - |
| Intestinal Enterobacteria | cfu/ml | N/A | NONE | See Attached | - |

U/S = Unsuitable Sample I/S = Insufficient Sample

**Analytical Report Number : 21-73080**
**Project / Site name: Brockhampton West, Havant**

**Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)**

| Analytical Test Name | Analytical Method Description | Analytical Method Reference | Method number | Wet / Dry Analysis | Accreditation Status |
|---|---|---|---|---|---|
| Metals in water by ICP-OES (dissolved) | Determination of metals in water by acidification followed by ICP-OES. Accredited Matrices SW, GW, PW, PrW.(Al, Cu,Fe,Zn). | In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil. | L039-PL | W | ISO 17025 |
| Metals in water by ICP-MS (dissolved) | Determination of metals in water by acidification followed by ICP-MS. Accredited Matrices: SW, GW, PW except B=SW,GW, Hg=SW,PW, Al=SW,PW. | In-house method based on USEPA Method 6020 & 200.8 "for the determination of trace elements in water by ICP-MS. | L012-PL | W | ISO 17025 |
| Biological oxygen demand (total) of water | Determination of biochemical oxygen demand in water (5 days). Accredited matrices: SW, PW, GW. | In-house method based on standard method 5210B. | L086-PL | W | ISO 17025 |
| Hexavalent chromium in water | Determination of hexavalent chromium in water by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry. | In-house method by continuous flow analyser. Accredited Matrices SW, GW, PW. | L080-PL | W | ISO 17025 |
| E.Coli in water Subcon | E.Coli in Water - Subcontracted Analysis | Subcontracted Analysis - See Attached Subcon Report. | | W | NONE |
| Monohydric phenols in water | Determination of phenols in water by continuous flow analyser. Accredited matrices: SW PW GW | In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar) | L080-PL | W | ISO 17025 |
| Nitrite in water | Determination of nitrite in water by addition of sulphanilamide and NED followed by discrete analyser (colorimetry).Accredited matrices SW, GW, PW. | In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton | L082-PL | W | ISO 17025 |
| Nitrate in water | Determination of nitrate by reaction with sodium salicylate and colorimetry. Accredited matrices SW, GW, PW | In-house method based on Examination of Water and Wastewatern & Polish Standard Method PN-82/C-04579.08, | L078-PL | W | ISO 17025 |
| Speciated EPA-16 PAHs in water | Determination of PAH compounds in water by extraction in dichloromethane followed by GC-MS with the use of surrogate and internal standards. Accredited matrices: SW PW GW | In-house method based on USEPA 8270 | L102B-PL | W | ISO 17025 |
| Sulphate in water | Determination of sulphate in water by acidification followed by ICP-OES. Accredited matrices: SW PW GW, PrW. | In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil. | L039-PL | W | ISO 17025 |
| Total Sulphur in water | Determination of total sulphur in water by acidification followed by ICP-OES. | In-house method based on MEWAM 1986 Methods for the Determination of Metals in Soil"" | L039-PL | W | NONE |
| TPHCWG (Waters) | Determination of dichloromethane extractable hydrocarbons in water by GC-MS, speciation by interpretation. | In-house method | L070-PL | W | ISO 17025 |
| TPH C10-C35 by GCxGC-FID | Determination of total petroleum hydrocarbons in water by GC x GC FID with carbon banding aliphatic and aromatic C10-C35. Accredited Matrices SW,GW,PW. | In-house method | L101B-PL | W | ISO 17025 |
| BTEX and MTBE in water (Monoaromatics) | Determination of BTEX and MTBE in water by headspace GC-MS. Accredited matrices: SW PW GW | In-house method based on USEPA8260 | L073B-PL | W | ISO 17025 |
| Ammonia as NH3 in water | Determination of Ammonium/Ammonia/ Ammoniacal Nitrogen by the colorimetric salicylate/nitroprusside method. Accredited matrices SW, GW, PW. | In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton | L082-PL | W | ISO 17025 |
| Ammonium as NH4 in water | Determination of Ammonium/Ammonia/ Ammoniacal Nitrogen by the colorimetric salicylate/nitroprusside method. Accredited matrices SW, GW, PW. | In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton | L082-PL | W | ISO 17025 |
| Nitrite as N in water | Determination of nitrite in water by addition of sulphanilamide and NED followed by discrete analyser (colorimetry). Accredited matrices SW, GW, PW. | In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton | L082-PL | W | ISO 17025 |

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The results included within the report are representative of the samples submitted for analysis.

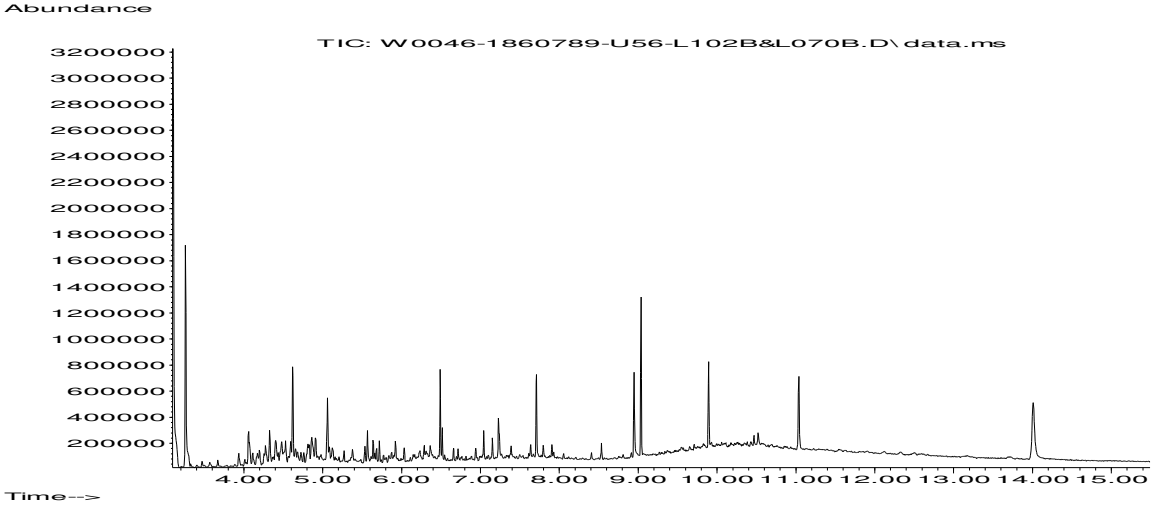
**Analytical Report Number : 21-73080**
**Project / Site name: Brockhampton West, Havant**

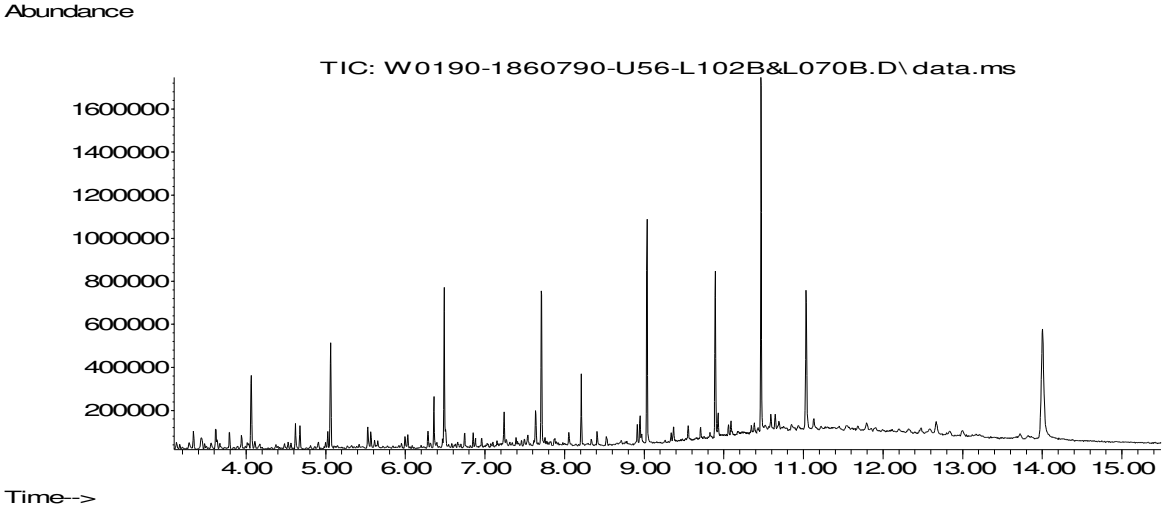
**Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)**

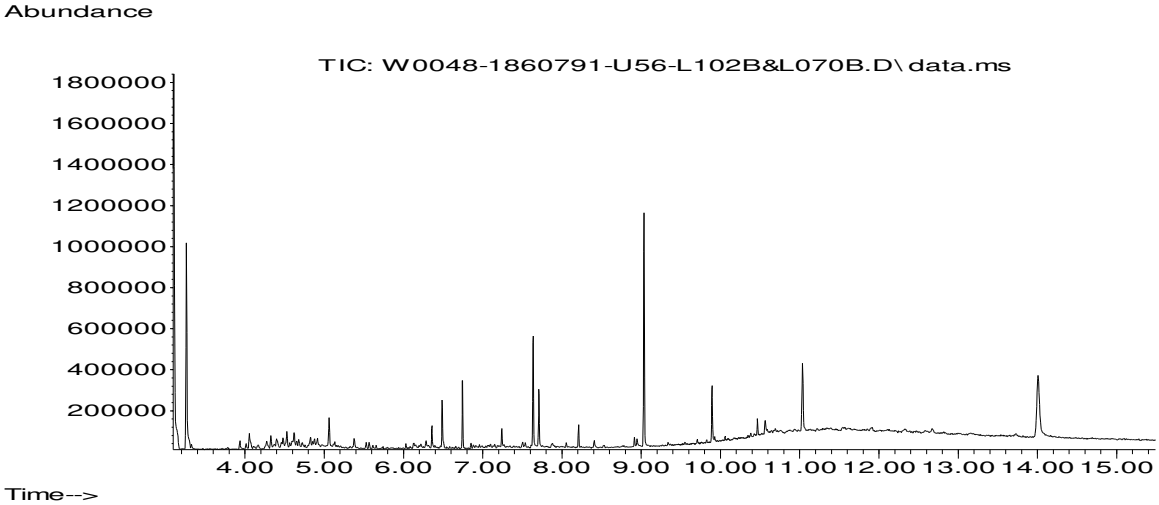
| Analytical Test Name | Analytical Method Description | Analytical Method Reference | Method number | Wet / Dry Analysis | Accreditation Status |
|---|---|---|---|---|---|
| Nitrate as N in water | Determination of nitrate by reaction with sodium salicylate and colorimetry. Accredited matrices SW, GW, PW. | In-house method based on Examination of Water and Wastewatern & Polish Standard Method PN-82/C-04579.08, | L078-PL | W | ISO 17025 |
| Total Phosphate as P in water | Determination of ortho phosphate in water by addition of ammonium molybdate, potassium antimonyl tartrate and ascorbic acid followed by colorimetry.Accredited matrices: SW, PW, GW. | In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton, analysis by discreet analyser. | L082-PL | W | ISO 17025 |
| TPH Chromatogram in Water | TPH Chromatogram in Water. | In-house method | L070-PL | W | NONE |
| pH at 20oC in water (automated) | Determination of pH in water by electrometric measurement. Accredited matrices: SW PW GW | In house method. | L099-PL | W | ISO 17025 |
| Gases C1-C4 | Determination of volatile hydrocarbons by Refinery Gas Analyzer | In-house methods | | W | NONE |
| Chemical Oxygen Demand in Water (Total) | Determination of total COD in water by reflux oxidation with acidified K2Cr2O7 followed by colorimetry. Accredited matrices: SW, PW, GW. | HACH DR/890 Colorimeter Procedures Manual (48470-22) (Ref 0170.2) | L065-PL | W | ISO 17025 |
| Intestinal Enterobacteria | Intestinal Enterobacteria in Water - Subcontracted Analysis | Subcontracted Analysis - See Attached Subcon Report. | | W | NONE |
| Chloride in water | Determination of Chloride colorimetrically by discrete analyser. | In house based on MEWAM Method ISBN 0117516260. Accredited matrices: SW, PW, GW. | L082-PL | W | ISO 17025 |

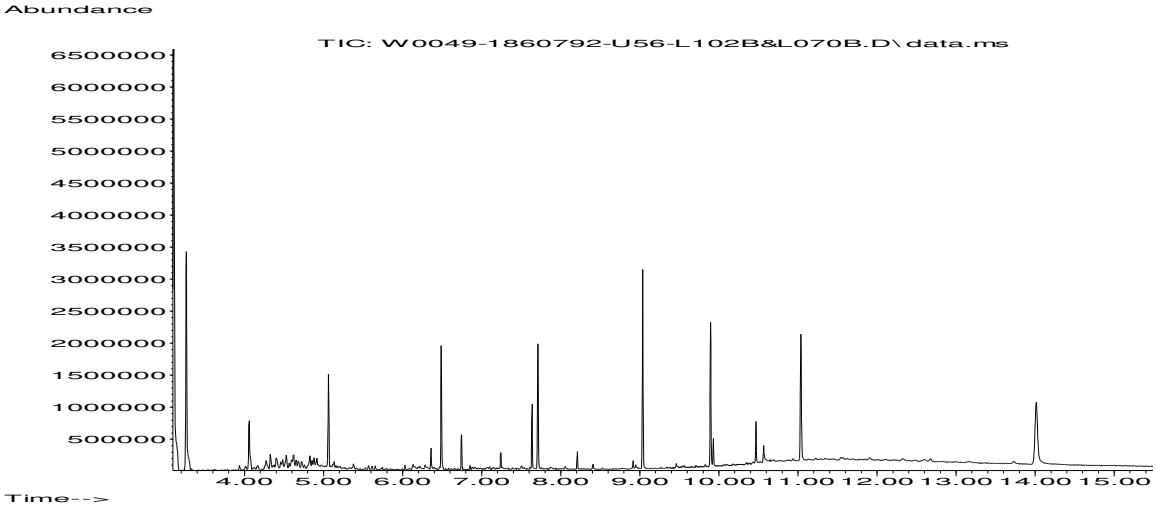
**For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.**
**For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.**
**Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.**

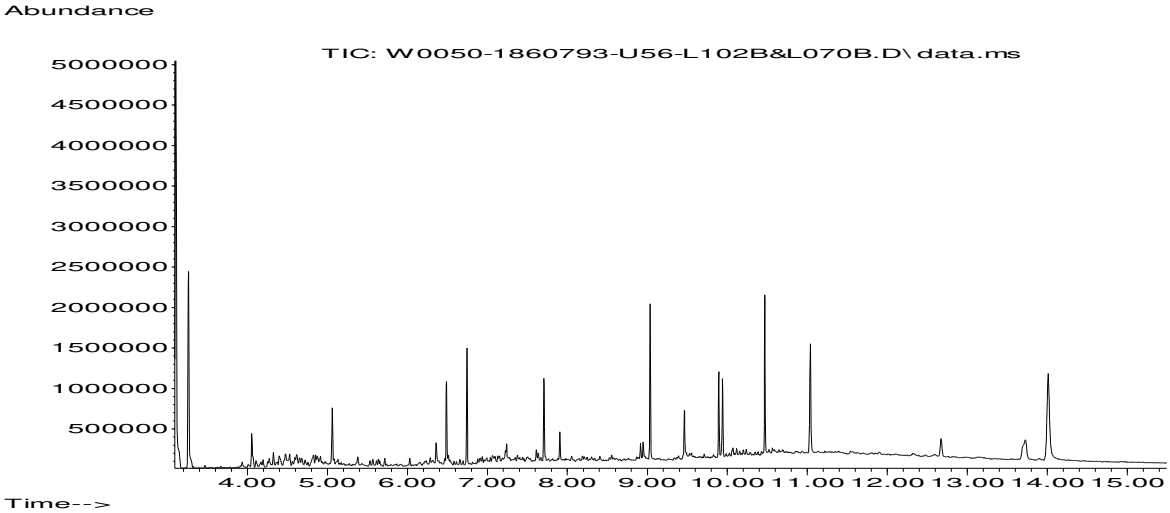
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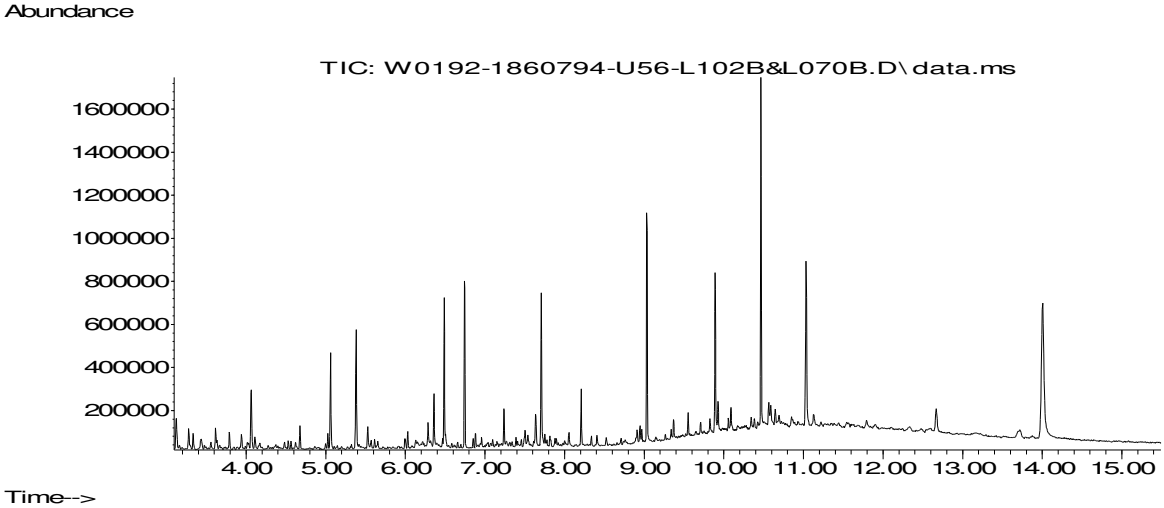

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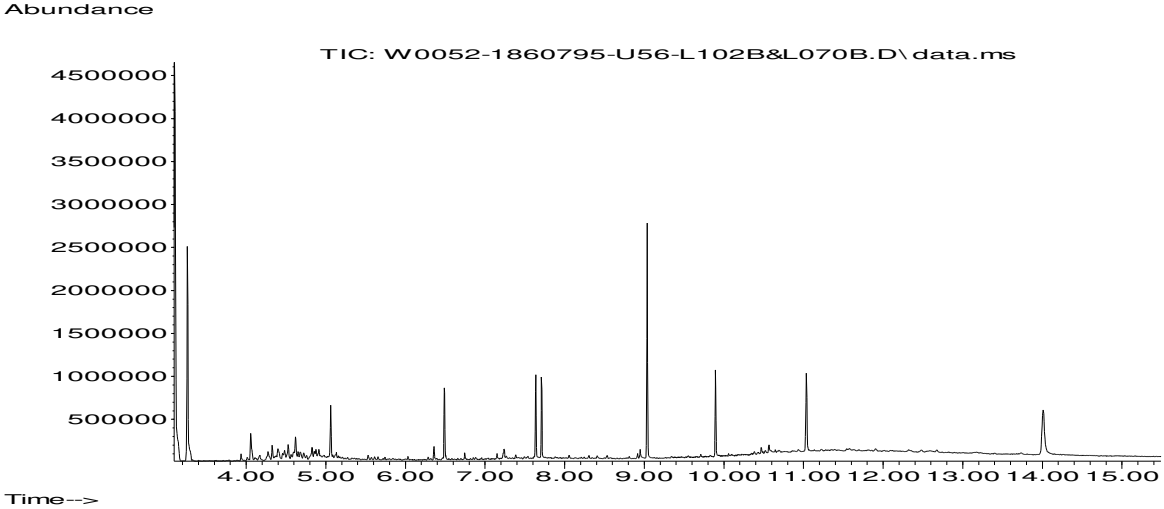

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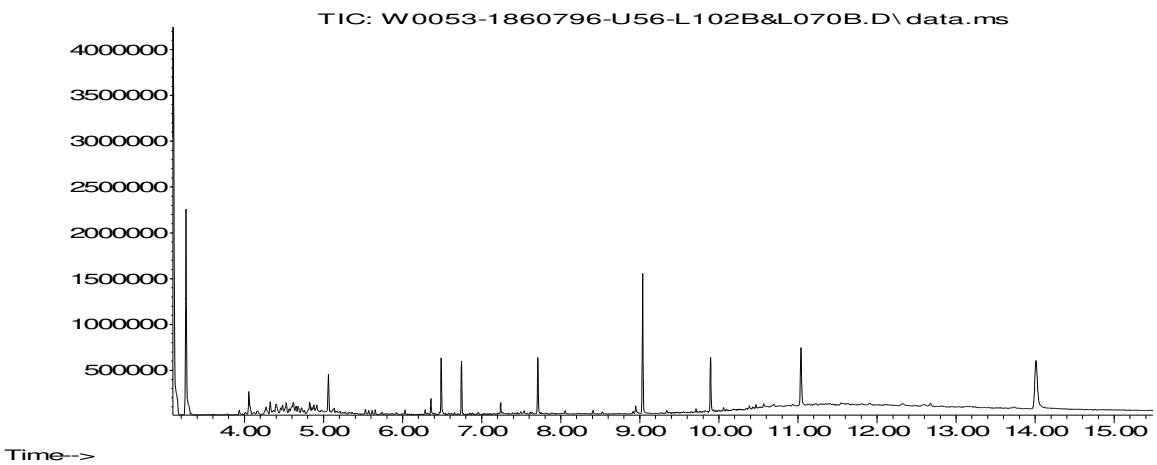

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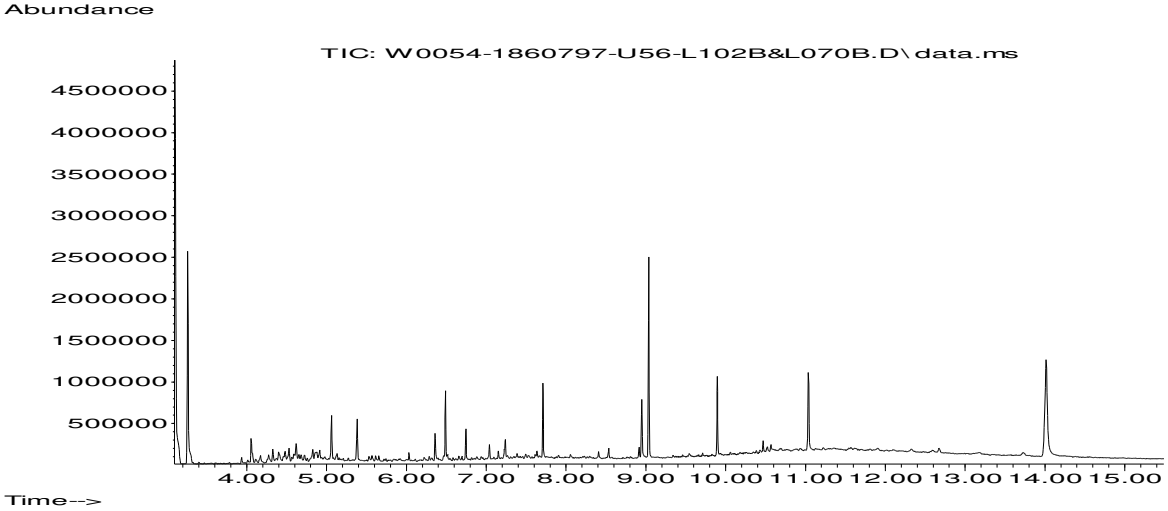

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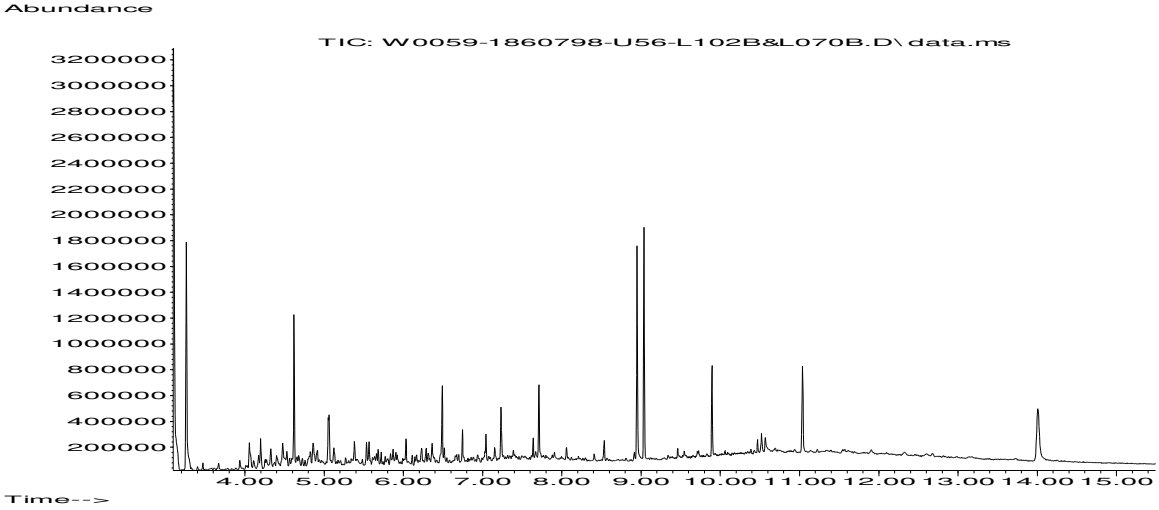

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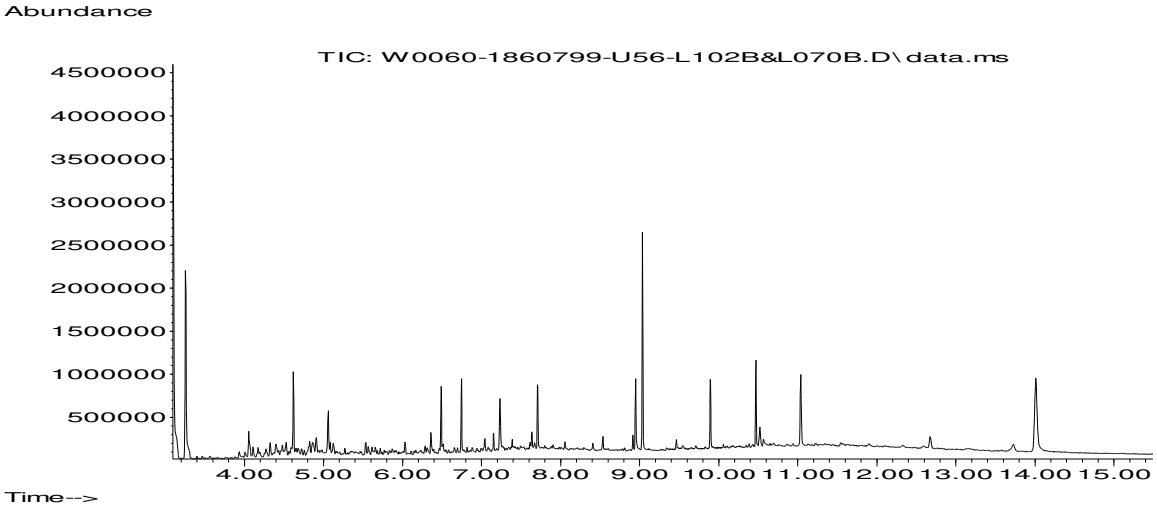

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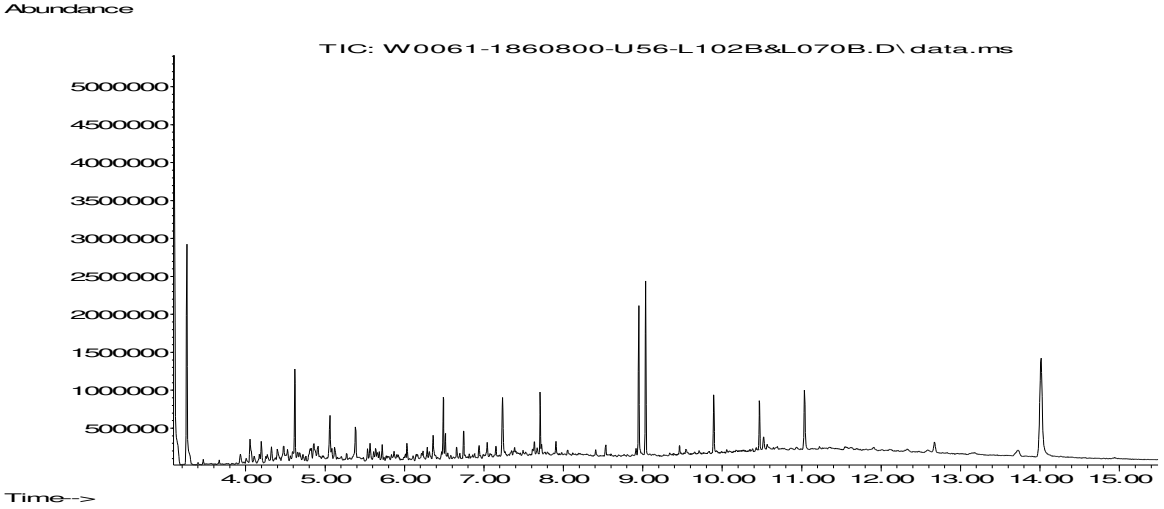

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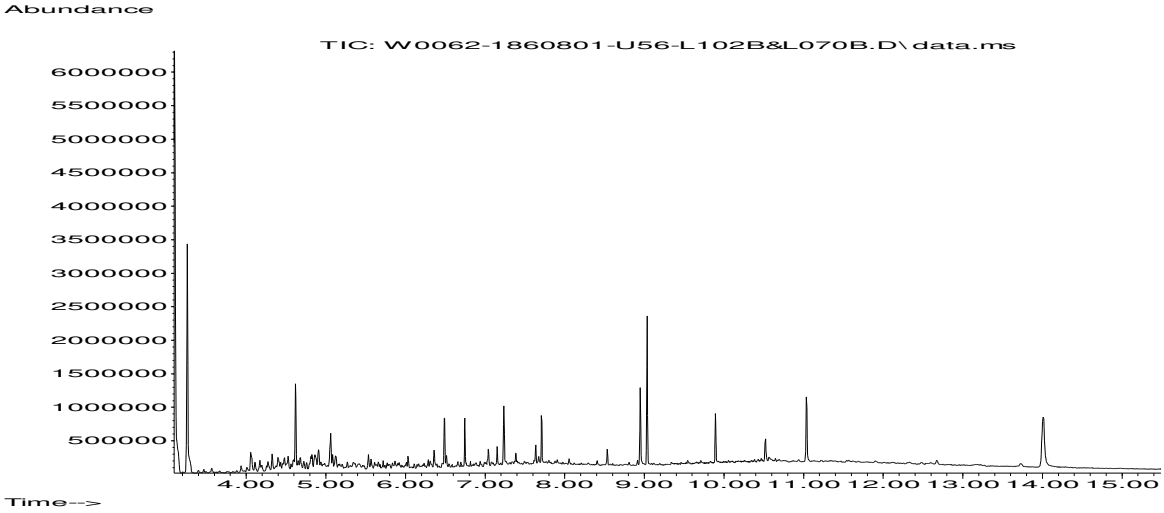

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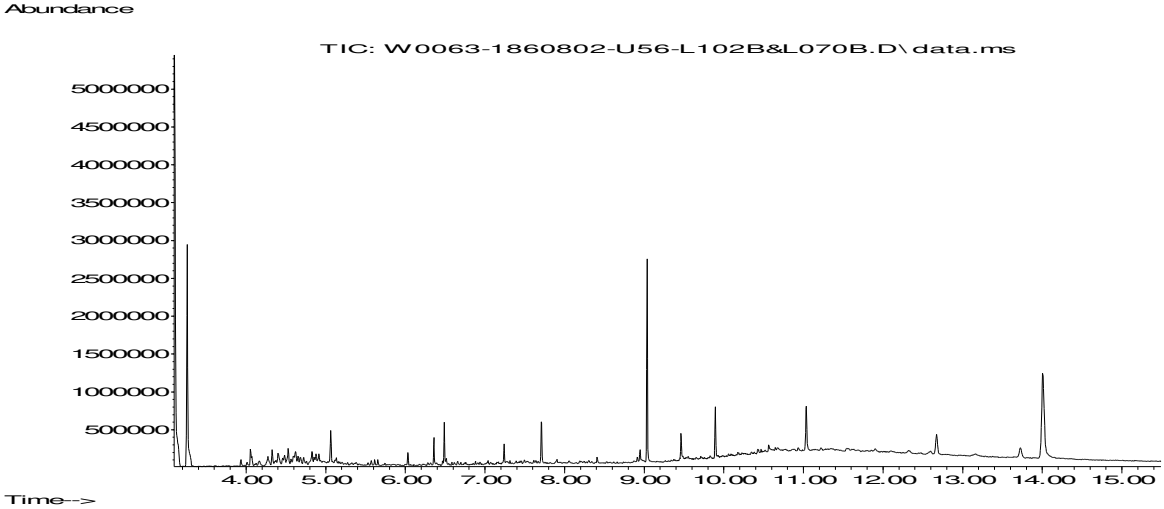

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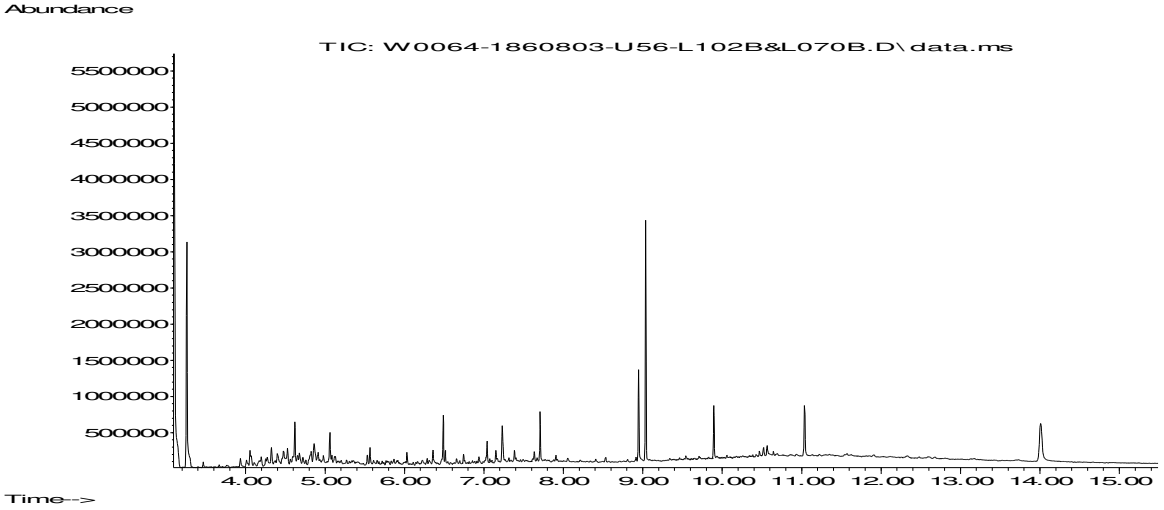

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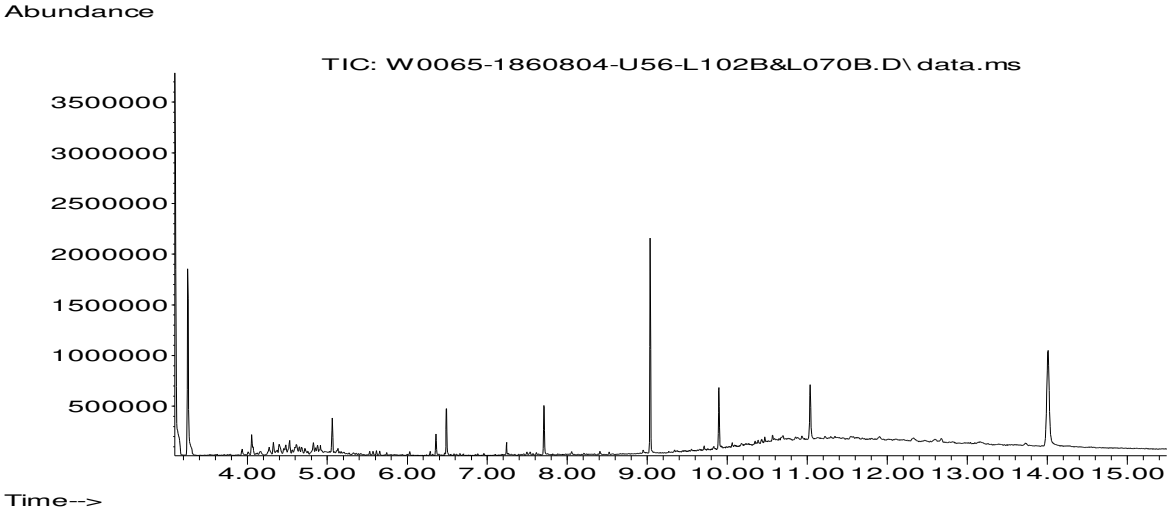

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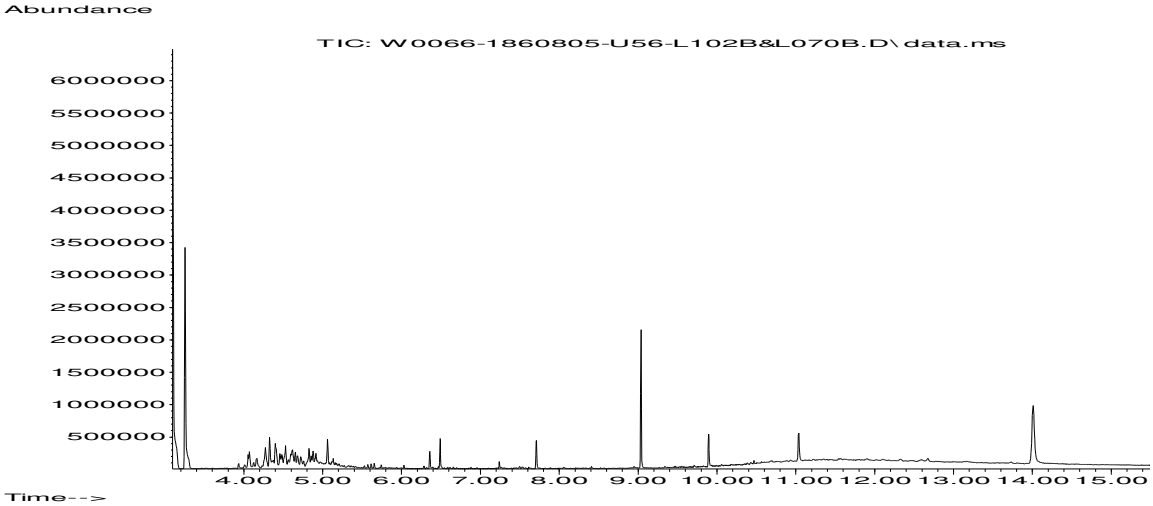

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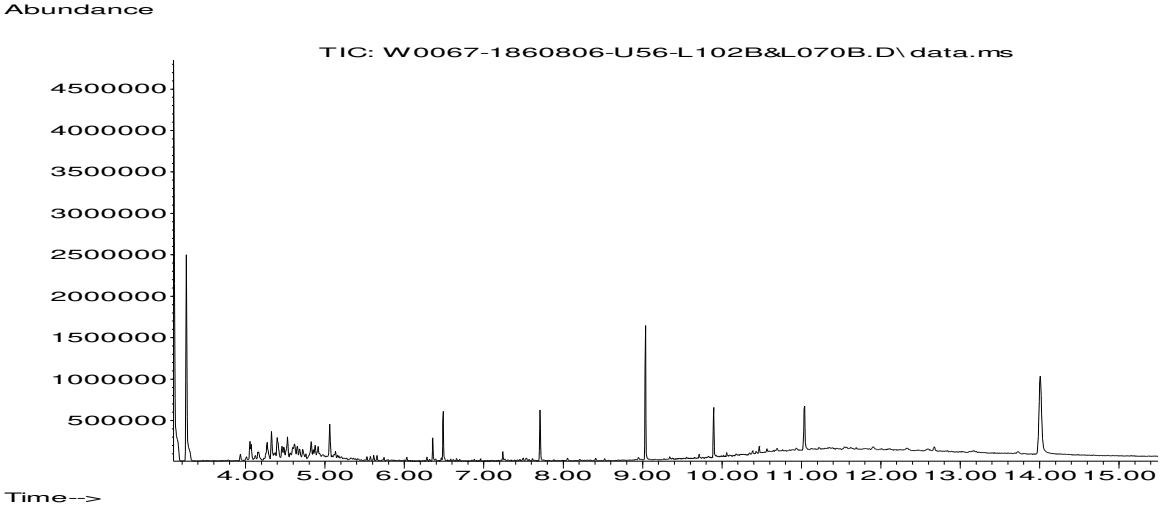

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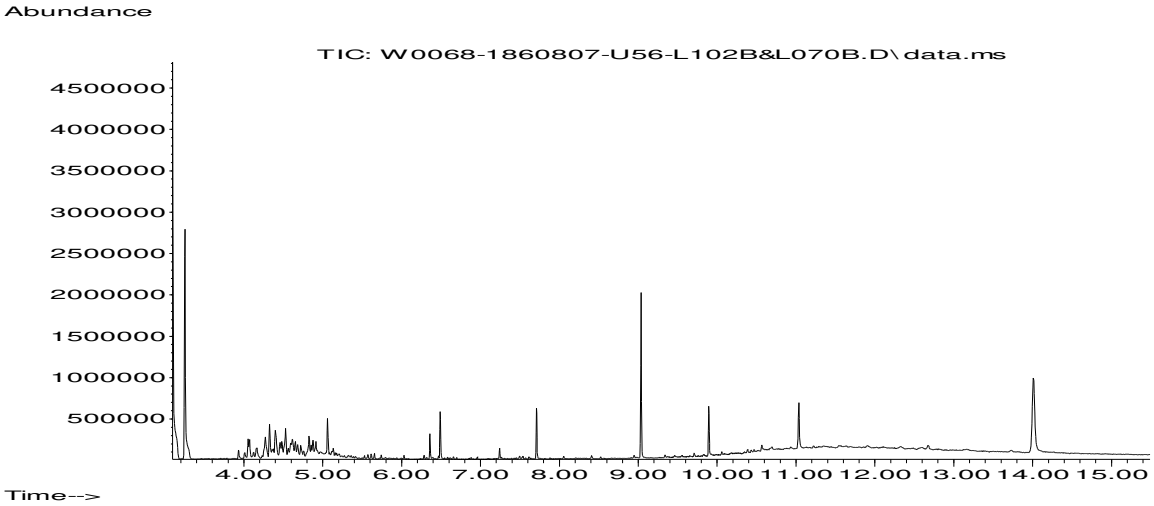

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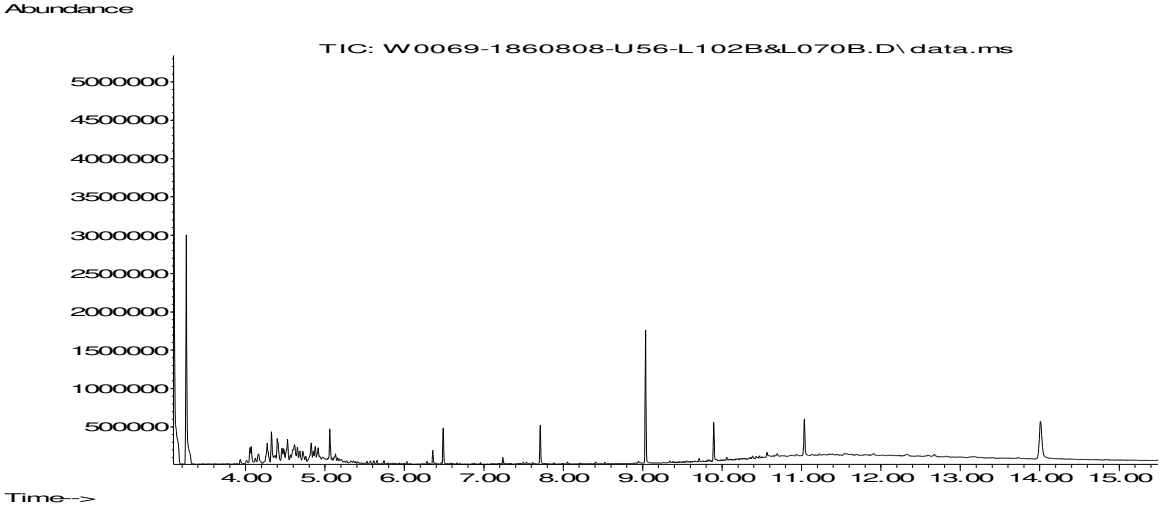

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500000
4.00
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6.00
7.00
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11.00
12.00
13.00
14.00
15.00
Time-->

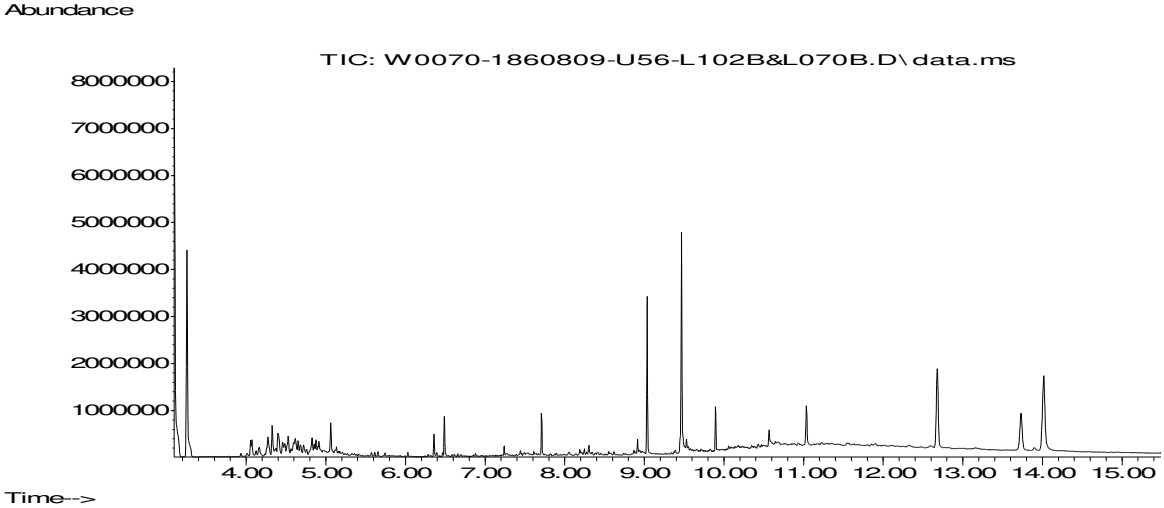

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Time-->

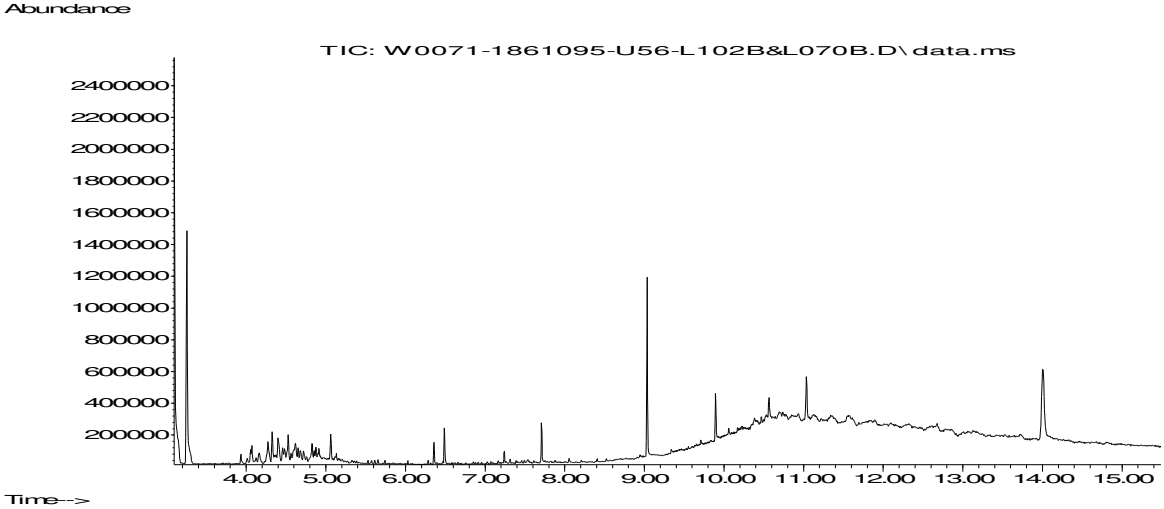

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500000
4.00
5.00
6.00
7.00
8.00
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10.00
11.00
12.00
13.00
14.00
15.00
Time-->


Abundance
TIC: W0067-1860806-U56-L102B&L070B.D\data.ms
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4000000
3500000
3000000
2500000
2000000
1500000
1000000
500000
4.00
5.00
6.00
7.00
8.00
9.00
10.00
11.00
12.00
13.00
14.00
15.00
Time-->


Abundance
TIC: W0068-1860807-U56-L102B&L070B.D\data.ms
4500000
4000000
3500000
3000000
2500000
2000000
1500000
1000000
500000
4.00 5.00 6.00 7.00 8.00 9.00 10.00 11.00 12.00 13.00 14.00 15.00
Time-->


Abundance
TIC: W0069-1860808-U56-L102B&L070B.D\data.ms
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4500000
4000000
3500000
3000000
2500000
2000000
1500000
1000000
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4.00
5.00
6.00
7.00
8.00
9.00
10.00
11.00
12.00
13.00
14.00
15.00
Time-->


Abundance
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7000000
6000000
5000000
4000000
3000000
2000000
1000000
4.00
5.00
6.00
7.00
8.00
9.00
10.00
11.00
12.00
13.00
14.00
15.00
Time-->


Abundance
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1800000
1600000
1400000
1200000
1000000
800000
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200000
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5.00
6.00
7.00
8.00
9.00
10.00
11.00
12.00
13.00
14.00
15.00
Time-->

**Analytical Report Number : 21-73080**
**Project / Site name: Brockhampton West, Havant**

| Sample ID | Other ID | Sample Type | Lab Sample Number | Sample Deviation | Test Name | Test Ref | Test Deviation |
|---|---|---|---|---|---|---|---|
| Downstream High Tide | None Supplied | W | 1860806 | c | Biological oxygen demand (total) of water | L086-PL | c |
| Downstream Low Tide | None Supplied | W | 1860809 | c | Biological oxygen demand (total) of water | L086-PL | c |
| Midstream High Tide | None Supplied | W | 1860805 | c | Biological oxygen demand (total) of water | L086-PL | c |
| Midstream Low Tide | None Supplied | W | 1860808 | c | Biological oxygen demand (total) of water | L086-PL | c |
| Upstream High Tide | None Supplied | W | 1860804 | c | Biological oxygen demand (total) of water | L086-PL | c |
| Upstream Low Tide | None Supplied | W | 1860807 | c | Biological oxygen demand (total) of water | L086-PL | c |

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The results included within the report are representative of the samples submitted for analysis.

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**e:** reception@i2analytical.com

# Analytical Report Number : 21-76050

| | | | |
|---|---|---|---|
| **Project / Site name:** | Brockhampton West Havant | **Samples received on:** | 20/05/2021 |
| **Your job number:** | 19 2099 04 | **Samples instructed on/ Analysis started on:** | 20/05/2021 |
| **Your order number:** | DS59990 | **Analysis completed by:** | 27/05/2021 |
| **Report Issue Number:** | 1 | **Report issued on:** | 28/05/2021 |
| **Samples Analysed:** | 20 water samples | | |

**Signed:** Karolina Marek

Karolina Marek
PL Head of Reporting Team
**For & on behalf of i2 Analytical Ltd.**

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils - 4 weeks from reporting
leachates - 2 weeks from reporting
waters - 2 weeks from reporting
asbestos - 6 months from reporting

Excel copies of reports are only valid when accompanied by this PDF certificate.

Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement.
Application of uncertainty of measurement would provide a range within which the true result lies.
An estimate of measurement uncertainty can be provided on request.

This certificate should not be reproduced, except in full, without the express permission of the laboratory.
The results included within the report are representative of the samples submitted for analysis.

**Analytical Report Number: 21-76050**
**Project / Site name: Brockhampton West Havant**

**Your Order No: DS59990**

| **Lab Sample Number** | | | | 1876574 | 1876575 | 1876576 | 1876577 |
|---|---|---|---|---|---|---|---|
| **Sample Reference** | | | | RO101 S | RO101 D | RO102 D | RO103 S |
| **Sample Number** | | | | None Supplied | None Supplied | None Supplied | None Supplied |
| **Depth (m)** | | | | 9.50 | 16.00 | 15.50 | 8.80 |
| **Date Sampled** | | | | 19/05/2021 | 18/05/2021 | 18/05/2021 | 19/05/2021 |
| **Time Taken** | | | | None Supplied | None Supplied | None Supplied | None Supplied |
| **Analytical Parameter (Water Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | | | | |
| **General Inorganics** | | | | | | | |
| pH | pH Units | N/A | ISO 17025 | 6.8 | 6.8 | 7.0 | 6.9 |
| Sulphate as SO4 | µg/l | 45 | ISO 17025 | 4550 | 110000 | 30200 | 6490 |
| Chloride | mg/l | 0.15 | ISO 17025 | 330 | 1000 | 200 | 750 |
| Total Phosphate as P | mg/l | 0.02 | ISO 17025 | - | - | - | - |
| Ammoniacal Nitrogen as NH3 | µg/l | 15 | ISO 17025 | 89000* | 81000* | 41000* | 120000* |
| Nitrate as N | mg/l | 0.01 | ISO 17025 | 0.47 | 0.30 | 2.43 | 12.1 |
| Nitrate as NO3 | mg/l | 0.05 | ISO 17025 | 2.10 | 1.31 | 10.8 | 53.6 |
| Nitrite as N | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | 1600 | < 1.0 |
| Nitrite as NO2 | µg/l | 5 | ISO 17025 | < 5.0 | < 5.0 | 5300 | < 5.0 |
| **Speciated PAHs** | | | | | | | |
| Naphthalene | µg/l | 0.01 | ISO 17025 | 5.11 | < 0.01 | < 0.01 | 4.26 |
| Acenaphthylene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Acenaphthene | µg/l | 0.01 | ISO 17025 | 1.20 | 6.45 | < 0.01 | 0.85 |
| Fluorene | µg/l | 0.01 | ISO 17025 | 0.61 | 2.88 | < 0.01 | 0.34 |
| Phenanthrene | µg/l | 0.01 | ISO 17025 | 0.73 | 0.55 | < 0.01 | 0.44 |
| Anthracene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Fluoranthene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Pyrene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Benzo(a)anthracene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Chrysene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Benzo(b)fluoranthene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Benzo(k)fluoranthene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Benzo(a)pyrene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Indeno(1,2,3-cd)pyrene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Dibenz(a,h)anthracene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Benzo(ghi)perylene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| **Total PAH** | | | | | | | |
| Total EPA-16 PAHs | µg/l | 0.16 | ISO 17025 | 7.65 | 9.88 | < 0.16 | 5.89 |
| **Heavy Metals / Metalloids** | | | | | | | |
| Chromium (hexavalent) | µg/l | 5 | ISO 17025 | < 5.0 | < 5.0 | < 5.0 | < 5.0 |
| Arsenic (dissolved) | µg/l | 0.15 | ISO 17025 | 9.12 | 5.75 | 1.35 | 10.5 |
| Cadmium (dissolved) | µg/l | 0.02 | ISO 17025 | < 0.02 | < 0.02 | 0.03 | 0.03 |
| Chromium (dissolved) | µg/l | 0.2 | ISO 17025 | 9.7 | 6.6 | 7.2 | 8.2 |
| Copper (dissolved) | µg/l | 0.5 | ISO 17025 | 37 | 17 | 8.4 | 18 |
| Lead (dissolved) | µg/l | 0.2 | ISO 17025 | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Mercury (dissolved) | µg/l | 0.05 | ISO 17025 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Nickel (dissolved) | µg/l | 0.5 | ISO 17025 | 11 | 27 | 20 | 13 |
| Zinc (dissolved) | µg/l | 0.5 | ISO 17025 | 7.7 | 19 | 43 | 38 |

**Analytical Report Number: 21-76050**
**Project / Site name: Brockhampton West Havant**

**Your Order No: DS59990**

| **Lab Sample Number** | | | | 1876574 | 1876575 | 1876576 | 1876577 |
|---|---|---|---|---|---|---|---|
| **Sample Reference** | | | | RO101 S | RO101 D | RO102 D | RO103 S |
| **Sample Number** | | | | None Supplied | None Supplied | None Supplied | None Supplied |
| **Depth (m)** | | | | 9.50 | 16.00 | 15.50 | 8.80 |
| **Date Sampled** | | | | 19/05/2021 | 18/05/2021 | 18/05/2021 | 19/05/2021 |
| **Time Taken** | | | | None Supplied | None Supplied | None Supplied | None Supplied |
| **Analytical Parameter (Water Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | | | | |
| **Monoaromatics & Oxygenates** | | | | | | | |
| Benzene | µg/l | 1 | ISO 17025 | 10.5 | < 1.0 | < 1.0 | 5.6 |
| Toluene | µg/l | 1 | ISO 17025 | 4.4 | < 1.0 | < 1.0 | 2.4 |
| Ethylbenzene | µg/l | 1 | ISO 17025 | 2.5 | < 1.0 | < 1.0 | 30.5 |
| p & m-xylene | µg/l | 1 | ISO 17025 | 4.4 | < 1.0 | < 1.0 | 60.7 |
| o-xylene | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | 9.0 |
| MTBE (Methyl Tertiary Butyl Ether) | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| **Petroleum Hydrocarbons** | | | | | | | |
| TPH-CWG - Aliphatic >C5 - C6 | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| TPH-CWG - Aliphatic >C6 - C8 | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| TPH-CWG - Aliphatic >C8 - C10 | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| Aliphatic >C10 - C12 | µg/l | 10 | ISO 17025 | < 10 | < 10 | < 10 | < 10 |
| Aliphatic >C12 - C16 | µg/l | 10 | ISO 17025 | < 10 | < 10 | < 10 | < 10 |
| Aliphatic >C16 - C21 | µg/l | 10 | ISO 17025 | < 10 | < 10 | < 10 | < 10 |
| Aliphatic >C21 - C35 | µg/l | 10 | ISO 17025 | < 10 | < 10 | < 10 | < 10 |
| Aliphatic >C10 - C35 | µg/l | 10 | ISO 17025 | < 10 | < 10 | < 10 | < 10 |
| TPH-CWG - Aromatic >C5 - C7 | µg/l | 1 | ISO 17025 | 11 | < 1.0 | < 1.0 | 5.6 |
| TPH-CWG - Aromatic >C7 - C8 | µg/l | 1 | ISO 17025 | 4.4 | < 1.0 | < 1.0 | 2.4 |
| TPH-CWG - Aromatic >C8 - C10 | µg/l | 1 | ISO 17025 | 16 | < 1.0 | < 1.0 | 140 |
| Aromatic >C10 - C12 | µg/l | 10 | ISO 17025 | 620 | 64 | < 10 | 270 |
| Aromatic >C12 - C16 | µg/l | 10 | ISO 17025 | 1200 | 180 | < 10 | 290 |
| Aromatic >C16 - C21 | µg/l | 10 | ISO 17025 | 440 | 120 | < 10 | 230 |
| Aromatic >C21 - C35 | µg/l | 10 | ISO 17025 | < 10 | < 10 | < 10 | < 10 |
| Aromatic >C10 - C35 | µg/l | 10 | ISO 17025 | 2300 | 360 | < 10 | 780 |
| **Gases** | | | | | | | |
| Methane | mg/L | 0.1 | NONE | 6.7** | - | - | 8.0** |

U/S = Unsuitable Sample  I/S = Insufficient Sample
* Result was reported from high dilution and should be interpreted with care
** Sample was delivered to Air Laboratory in deviating container and with headspace

**Analytical Report Number: 21-76050**
**Project / Site name: Brockhampton West Havant**

**Your Order No: DS59990**

| **Lab Sample Number** | | | | 1876578 | 1876579 | 1876580 | 1876581 |
|---|---|---|---|---|---|---|---|
| **Sample Reference** | | | | RO103 D | RO104 S | RO104 D | RO105 S |
| **Sample Number** | | | | None Supplied | None Supplied | None Supplied | None Supplied |
| **Depth (m)** | | | | 16.00 | 9.75 | 16.00 | 10.00 |
| **Date Sampled** | | | | 19/05/2021 | 19/05/2021 | 19/05/2021 | 19/05/2021 |
| **Time Taken** | | | | None Supplied | None Supplied | None Supplied | None Supplied |
| **Analytical Parameter (Water Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | | | | |
| **General Inorganics** | | | | | | | |
| pH | pH Units | N/A | ISO 17025 | 7.4 | 6.9 | 7.4 | 7.0 |
| Sulphate as SO4 | µg/l | 45 | ISO 17025 | 9130 | 5830 | 22200 | 5750 |
| Chloride | mg/l | 0.15 | ISO 17025 | 63 | 410 | 28 | 150 |
| Total Phosphate as P | mg/l | 0.02 | ISO 17025 | - | 0.20 | - | - |
| Ammoniacal Nitrogen as NH3 | µg/l | 15 | ISO 17025 | 100 | 190000* | 85 | 74000* |
| Nitrate as N | mg/l | 0.01 | ISO 17025 | 17.6 | 0.34 | 5.23 | 0.30 |
| Nitrate as NO3 | mg/l | 0.05 | ISO 17025 | 77.8 | 1.52 | 23.2 | 1.31 |
| Nitrite as N | µg/l | 1 | ISO 17025 | 120 | < 1.0 | 18 | < 1.0 |
| Nitrite as NO2 | µg/l | 5 | ISO 17025 | 400 | < 5.0 | 60 | < 5.0 |
| **Speciated PAHs** | | | | | | | |
| Naphthalene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Acenaphthylene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Acenaphthene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | 1.58 |
| Fluorene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | 0.76 |
| Phenanthrene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | 0.88 |
| Anthracene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Fluoranthene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Pyrene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Benzo(a)anthracene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Chrysene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Benzo(b)fluoranthene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Benzo(k)fluoranthene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Benzo(a)pyrene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Indeno(1,2,3-cd)pyrene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Dibenz(a,h)anthracene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Benzo(ghi)perylene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| **Total PAH** | | | | | | | |
| Total EPA-16 PAHs | µg/l | 0.16 | ISO 17025 | < 0.16 | < 0.16 | < 0.16 | 3.22 |
| **Heavy Metals / Metalloids** | | | | | | | |
| Chromium (hexavalent) | µg/l | 5 | ISO 17025 | < 5.0 | < 5.0 | < 5.0 | < 5.0 |
| Arsenic (dissolved) | µg/l | 0.15 | ISO 17025 | 1.29 | 12.0 | 0.28 | 0.49 |
| Cadmium (dissolved) | µg/l | 0.02 | ISO 17025 | < 0.02 | < 0.02 | < 0.02 | < 0.02 |
| Chromium (dissolved) | µg/l | 0.2 | ISO 17025 | 2.9 | 11 | 2.4 | 9.0 |
| Copper (dissolved) | µg/l | 0.5 | ISO 17025 | 5.7 | 23 | 2.7 | 8.5 |
| Lead (dissolved) | µg/l | 0.2 | ISO 17025 | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Mercury (dissolved) | µg/l | 0.05 | ISO 17025 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Nickel (dissolved) | µg/l | 0.5 | ISO 17025 | 5.1 | 25 | 3.8 | 10 |
| Zinc (dissolved) | µg/l | 0.5 | ISO 17025 | 8.6 | 13 | 7.5 | 26 |

**Analytical Report Number: 21-76050**
**Project / Site name: Brockhampton West Havant**

**Your Order No: DS59990**

| **Lab Sample Number** | | | | 1876578 | 1876579 | 1876580 | 1876581 |
|---|---|---|---|---|---|---|---|
| **Sample Reference** | | | | RO103 D | RO104 S | RO104 D | RO105 S |
| **Sample Number** | | | | None Supplied | None Supplied | None Supplied | None Supplied |
| **Depth (m)** | | | | 16.00 | 9.75 | 16.00 | 10.00 |
| **Date Sampled** | | | | 19/05/2021 | 19/05/2021 | 19/05/2021 | 19/05/2021 |
| **Time Taken** | | | | None Supplied | None Supplied | None Supplied | None Supplied |
| **Analytical Parameter (Water Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | | | | |
| **Monoaromatics & Oxygenates** | | | | | | | |
| Benzene | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| Toluene | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| Ethylbenzene | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| p & m-xylene | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| o-xylene | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| MTBE (Methyl Tertiary Butyl Ether) | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| **Petroleum Hydrocarbons** | | | | | | | |
| TPH-CWG - Aliphatic >C5 - C6 | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| TPH-CWG - Aliphatic >C6 - C8 | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| TPH-CWG - Aliphatic >C8 - C10 | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| Aliphatic >C10 - C12 | µg/l | 10 | ISO 17025 | < 10 | < 10 | < 10 | < 10 |
| Aliphatic >C12 - C16 | µg/l | 10 | ISO 17025 | < 10 | < 10 | < 10 | < 10 |
| Aliphatic >C16 - C21 | µg/l | 10 | ISO 17025 | < 10 | < 10 | < 10 | < 10 |
| Aliphatic >C21 - C35 | µg/l | 10 | ISO 17025 | < 10 | < 10 | < 10 | < 10 |
| Aliphatic >C10 - C35 | µg/l | 10 | ISO 17025 | < 10 | < 10 | < 10 | < 10 |
| TPH-CWG - Aromatic >C5 - C7 | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| TPH-CWG - Aromatic >C7 - C8 | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| TPH-CWG - Aromatic >C8 - C10 | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| Aromatic >C10 - C12 | µg/l | 10 | ISO 17025 | < 10 | 72 | < 10 | 24 |
| Aromatic >C12 - C16 | µg/l | 10 | ISO 17025 | < 10 | 150 | < 10 | 64 |
| Aromatic >C16 - C21 | µg/l | 10 | ISO 17025 | < 10 | 140 | < 10 | 73 |
| Aromatic >C21 - C35 | µg/l | 10 | ISO 17025 | < 10 | < 10 | < 10 | < 10 |
| Aromatic >C10 - C35 | µg/l | 10 | ISO 17025 | < 10 | 370 | < 10 | 160 |
| **Gases** | | | | | | | |
| Methane | mg/L | 0.1 | NONE | - | - | - | - |

U/S = Unsuitable Sample  I/S = Insufficient Sample
* Result was reported from high dilution and should be interpreted with care
** Sample was delivered to Air Laboratory in deviating container and with headspace

**Analytical Report Number: 21-76050**
**Project / Site name: Brockhampton West Havant**

**Your Order No: DS59990**

| **Lab Sample Number** | | | | 1876582 | 1876583 | 1876584 | 1876585 |
|---|---|---|---|---|---|---|---|
| **Sample Reference** | | | | RO105 D | RO106 S | RO106 D | RO107 |
| **Sample Number** | | | | None Supplied | None Supplied | None Supplied | None Supplied |
| **Depth (m)** | | | | 15.50 | 18.00 | 17.00 | 15.00 |
| **Date Sampled** | | | | 19/05/2021 | 19/05/2021 | 19/05/2021 | 18/05/2021 |
| **Time Taken** | | | | None Supplied | None Supplied | None Supplied | None Supplied |
| **Analytical Parameter (Water Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | | | | |
| **General Inorganics** | | | | | | | |
| pH | pH Units | N/A | ISO 17025 | 7.0 | 7.0 | 7.0 | 7.3 |
| Sulphate as SO4 | µg/l | 45 | ISO 17025 | 13600 | 6700 | 22800 | 184000 |
| Chloride | mg/l | 0.15 | ISO 17025 | 86 | 630 | 490 | 930 |
| Total Phosphate as P | mg/l | 0.02 | ISO 17025 | 0.03 | 0.03 | - | - |
| Ammoniacal Nitrogen as NH3 | µg/l | 15 | ISO 17025 | 25000* | 230000* | 12000 | 110 |
| Nitrate as N | mg/l | 0.01 | ISO 17025 | 0.15 | 0.31 | 0.18 | 1.92 |
| Nitrate as NO3 | mg/l | 0.05 | ISO 17025 | 0.68 | 1.37 | 0.79 | 8.51 |
| Nitrite as N | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | 7.6 |
| Nitrite as NO2 | µg/l | 5 | ISO 17025 | < 5.0 | < 5.0 | < 5.0 | 25 |
| **Speciated PAHs** | | | | | | | |
| Naphthalene | µg/l | 0.01 | ISO 17025 | < 0.01 | 1.48 | < 0.01 | < 0.01 |
| Acenaphthylene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Acenaphthene | µg/l | 0.01 | ISO 17025 | < 0.01 | 4.85 | < 0.01 | < 0.01 |
| Fluorene | µg/l | 0.01 | ISO 17025 | < 0.01 | 1.46 | < 0.01 | < 0.01 |
| Phenanthrene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Anthracene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Fluoranthene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Pyrene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Benzo(a)anthracene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Chrysene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Benzo(b)fluoranthene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Benzo(k)fluoranthene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Benzo(a)pyrene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Indeno(1,2,3-cd)pyrene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Dibenz(a,h)anthracene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Benzo(ghi)perylene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| **Total PAH** | | | | | | | |
| Total EPA-16 PAHs | µg/l | 0.16 | ISO 17025 | < 0.16 | 7.79 | < 0.16 | < 0.16 |
| **Heavy Metals / Metalloids** | | | | | | | |
| Chromium (hexavalent) | µg/l | 5 | ISO 17025 | < 5.0 | < 5.0 | < 5.0 | < 5.0 |
| Arsenic (dissolved) | µg/l | 0.15 | ISO 17025 | 6.05 | 2.78 | 10.8 | 4.45 |
| Cadmium (dissolved) | µg/l | 0.02 | ISO 17025 | < 0.02 | < 0.02 | < 0.02 | 0.03 |
| Chromium (dissolved) | µg/l | 0.2 | ISO 17025 | 6.5 | 14 | 5.8 | 4.1 |
| Copper (dissolved) | µg/l | 0.5 | ISO 17025 | 2.8 | 11 | 5.4 | 15 |
| Lead (dissolved) | µg/l | 0.2 | ISO 17025 | < 0.2 | < 0.2 | 0.2 | < 0.2 |
| Mercury (dissolved) | µg/l | 0.05 | ISO 17025 | < 0.05 | < 0.05 | < 0.05 | 0.58 |
| Nickel (dissolved) | µg/l | 0.5 | ISO 17025 | 14 | 12 | 28 | 15 |
| Zinc (dissolved) | µg/l | 0.5 | ISO 17025 | 5.5 | 35 | 5.4 | 5.5 |

**Analytical Report Number: 21-76050**
**Project / Site name: Brockhampton West Havant**

**Your Order No: DS59990**

| **Lab Sample Number** | | | | 1876582 | 1876583 | 1876584 | 1876585 |
|---|---|---|---|---|---|---|---|
| **Sample Reference** | | | | RO105 D | RO106 S | RO106 D | RO107 |
| **Sample Number** | | | | None Supplied | None Supplied | None Supplied | None Supplied |
| **Depth (m)** | | | | 15.50 | 18.00 | 17.00 | 15.00 |
| **Date Sampled** | | | | 19/05/2021 | 19/05/2021 | 19/05/2021 | 18/05/2021 |
| **Time Taken** | | | | None Supplied | None Supplied | None Supplied | None Supplied |
| **Analytical Parameter (Water Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | | | | |
| **Monoaromatics & Oxygenates** | | | | | | | |
| Benzene | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| Toluene | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| Ethylbenzene | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| p & m-xylene | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| o-xylene | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| MTBE (Methyl Tertiary Butyl Ether) | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| **Petroleum Hydrocarbons** | | | | | | | |
| TPH-CWG - Aliphatic >C5 - C6 | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| TPH-CWG - Aliphatic >C6 - C8 | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| TPH-CWG - Aliphatic >C8 - C10 | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| Aliphatic >C10 - C12 | µg/l | 10 | ISO 17025 | < 10 | < 10 | < 10 | < 10 |
| Aliphatic >C12 - C16 | µg/l | 10 | ISO 17025 | < 10 | < 10 | < 10 | < 10 |
| Aliphatic >C16 - C21 | µg/l | 10 | ISO 17025 | < 10 | < 10 | < 10 | < 10 |
| Aliphatic >C21 - C35 | µg/l | 10 | ISO 17025 | < 10 | < 10 | < 10 | < 10 |
| Aliphatic >C10 - C35 | µg/l | 10 | ISO 17025 | < 10 | < 10 | < 10 | < 10 |
| TPH-CWG - Aromatic >C5 - C7 | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| TPH-CWG - Aromatic >C7 - C8 | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| TPH-CWG - Aromatic >C8 - C10 | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| Aromatic >C10 - C12 | µg/l | 10 | ISO 17025 | < 10 | 120 | 14 | < 10 |
| Aromatic >C12 - C16 | µg/l | 10 | ISO 17025 | < 10 | 270 | 130 | < 10 |
| Aromatic >C16 - C21 | µg/l | 10 | ISO 17025 | < 10 | 270 | 44 | < 10 |
| Aromatic >C21 - C35 | µg/l | 10 | ISO 17025 | < 10 | < 10 | < 10 | < 10 |
| Aromatic >C10 - C35 | µg/l | 10 | ISO 17025 | < 10 | 670 | 190 | < 10 |
| **Gases** | | | | | | | |
| Methane | mg/L | 0.1 | NONE | - | 5.4** | - | - |

U/S = Unsuitable Sample  I/S = Insufficient Sample
* Result was reported from high dilution and should be interpreted with care
** Sample was delivered to Air Laboratory in deviating container and with headspace

**Analytical Report Number: 21-76050**
**Project / Site name: Brockhampton West Havant**

**Your Order No: DS59990**

| **Lab Sample Number** | | | | 1876586 | 1876587 | 1876588 | 1876589 |
|---|---|---|---|---|---|---|---|
| **Sample Reference** | | | | RO108 | RO109 | DS101 | DS102 |
| **Sample Number** | | | | None Supplied | None Supplied | None Supplied | None Supplied |
| **Depth (m)** | | | | 13.25 | 14.50 | 9.75 | 11.50 |
| **Date Sampled** | | | | 18/05/2021 | 19/05/2021 | 19/05/2021 | 19/05/2021 |
| **Time Taken** | | | | None Supplied | None Supplied | None Supplied | None Supplied |
| **Analytical Parameter (Water Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | | | | |
| **General Inorganics** | | | | | | | |
| pH | pH Units | N/A | ISO 17025 | 7.2 | 7.1 | 6.9 | 6.8 |
| Sulphate as SO4 | µg/l | 45 | ISO 17025 | 50300 | 18000 | 4900 | 5980 |
| Chloride | mg/l | 0.15 | ISO 17025 | 270 | 83 | 510 | 1900 |
| Total Phosphate as P | mg/l | 0.02 | ISO 17025 | - | - | 0.03 | 0.08 |
| Ammoniacal Nitrogen as NH3 | µg/l | 15 | ISO 17025 | 3500* | 10000 | 86000* | 190000 |
| Nitrate as N | mg/l | 0.01 | ISO 17025 | 5.17 | 7.31 | 0.08 | 0.42 |
| Nitrate as NO3 | mg/l | 0.05 | ISO 17025 | 22.9 | 32.4 | 0.37 | 1.84 |
| Nitrite as N | µg/l | 1 | ISO 17025 | 230 | 340 | < 1.0 | < 1.0 |
| Nitrite as NO2 | µg/l | 5 | ISO 17025 | 770 | 1100 | < 5.0 | < 5.0 |
| **Speciated PAHs** | | | | | | | |
| Naphthalene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Acenaphthylene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Acenaphthene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | 2.22 |
| Fluorene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | 1.10 |
| Phenanthrene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | 1.00 |
| Anthracene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Fluoranthene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Pyrene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Benzo(a)anthracene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Chrysene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Benzo(b)fluoranthene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Benzo(k)fluoranthene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Benzo(a)pyrene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Indeno(1,2,3-cd)pyrene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Dibenz(a,h)anthracene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Benzo(ghi)perylene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| **Total PAH** | | | | | | | |
| Total EPA-16 PAHs | µg/l | 0.16 | ISO 17025 | < 0.16 | < 0.16 | < 0.16 | 4.32 |
| **Heavy Metals / Metalloids** | | | | | | | |
| Chromium (hexavalent) | µg/l | 5 | ISO 17025 | < 5.0 | < 5.0 | < 5.0 | < 5.0 |
| Arsenic (dissolved) | µg/l | 0.15 | ISO 17025 | 1.32 | 0.55 | 3.21 | 12.7 |
| Cadmium (dissolved) | µg/l | 0.02 | ISO 17025 | < 0.02 | < 0.02 | < 0.02 | 0.03 |
| Chromium (dissolved) | µg/l | 0.2 | ISO 17025 | 3.6 | 3.5 | 9.3 | 13 |
| Copper (dissolved) | µg/l | 0.5 | ISO 17025 | 4.4 | 4.3 | 5.1 | 30 |
| Lead (dissolved) | µg/l | 0.2 | ISO 17025 | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Mercury (dissolved) | µg/l | 0.05 | ISO 17025 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Nickel (dissolved) | µg/l | 0.5 | ISO 17025 | 8.3 | 10 | 27 | 20 |
| Zinc (dissolved) | µg/l | 0.5 | ISO 17025 | 2.5 | 5.0 | 2.6 | 7.5 |

**Analytical Report Number: 21-76050**
**Project / Site name: Brockhampton West Havant**

**Your Order No: DS59990**

| **Lab Sample Number** | | | | 1876586 | 1876587 | 1876588 | 1876589 |
|---|---|---|---|---|---|---|---|
| **Sample Reference** | | | | RO108 | RO109 | DS101 | DS102 |
| **Sample Number** | | | | None Supplied | None Supplied | None Supplied | None Supplied |
| **Depth (m)** | | | | 13.25 | 14.50 | 9.75 | 11.50 |
| **Date Sampled** | | | | 18/05/2021 | 19/05/2021 | 19/05/2021 | 19/05/2021 |
| **Time Taken** | | | | None Supplied | None Supplied | None Supplied | None Supplied |
| **Analytical Parameter (Water Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | | | | |
| **Monoaromatics & Oxygenates** | | | | | | | |
| Benzene | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| Toluene | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| Ethylbenzene | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| p & m-xylene | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| o-xylene | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| MTBE (Methyl Tertiary Butyl Ether) | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| **Petroleum Hydrocarbons** | | | | | | | |
| TPH-CWG - Aliphatic >C5 - C6 | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| TPH-CWG - Aliphatic >C6 - C8 | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| TPH-CWG - Aliphatic >C8 - C10 | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| Aliphatic >C10 - C12 | µg/l | 10 | ISO 17025 | < 10 | < 10 | < 10 | < 10 |
| Aliphatic >C12 - C16 | µg/l | 10 | ISO 17025 | < 10 | < 10 | < 10 | < 10 |
| Aliphatic >C16 - C21 | µg/l | 10 | ISO 17025 | < 10 | < 10 | < 10 | < 10 |
| Aliphatic >C21 - C35 | µg/l | 10 | ISO 17025 | < 10 | < 10 | < 10 | < 10 |
| Aliphatic >C10 - C35 | µg/l | 10 | ISO 17025 | < 10 | < 10 | < 10 | < 10 |
| TPH-CWG - Aromatic >C5 - C7 | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| TPH-CWG - Aromatic >C7 - C8 | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| TPH-CWG - Aromatic >C8 - C10 | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| Aromatic >C10 - C12 | µg/l | 10 | ISO 17025 | < 10 | < 10 | 18 | 91 |
| Aromatic >C12 - C16 | µg/l | 10 | ISO 17025 | < 10 | < 10 | 64 | 220 |
| Aromatic >C16 - C21 | µg/l | 10 | ISO 17025 | < 10 | < 10 | 55 | 150 |
| Aromatic >C21 - C35 | µg/l | 10 | ISO 17025 | < 10 | < 10 | < 10 | < 10 |
| Aromatic >C10 - C35 | µg/l | 10 | ISO 17025 | < 10 | < 10 | 140 | 460 |
| **Gases** | | | | | | | |
| Methane | mg/L | 0.1 | NONE | - | - | - | - |

U/S = Unsuitable Sample  I/S = Insufficient Sample
* Result was reported from high dilution and should be interpreted with care
** Sample was delivered to Air Laboratory in deviating container and with headspace

**Analytical Report Number: 21-76050**
**Project / Site name: Brockhampton West Havant**

**Your Order No: DS59990**

| **Lab Sample Number** | | | | 1876590 | 1876591 | 1876592 | 1876593 |
|---|---|---|---|---|---|---|---|
| **Sample Reference** | | | | DS103 | CP02A D | CP03 S | CP05 |
| **Sample Number** | | | | None Supplied | None Supplied | None Supplied | None Supplied |
| **Depth (m)** | | | | 11.00 | 18.00 | 8.00 | 9.00 |
| **Date Sampled** | | | | 19/05/2021 | 19/05/2021 | 19/05/2021 | 18/05/2021 |
| **Time Taken** | | | | None Supplied | None Supplied | None Supplied | None Supplied |
| **Analytical Parameter (Water Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | | | | |
| **General Inorganics** | | | | | | | |
| pH | pH Units | N/A | ISO 17025 | 6.8 | 6.8 | 6.8 | 6.9 |
| Sulphate as SO4 | µg/l | 45 | ISO 17025 | 10100 | 39600 | 3940 | 4490 |
| Chloride | mg/l | 0.15 | ISO 17025 | 430 | 810 | 170 | 230 |
| Total Phosphate as P | mg/l | 0.02 | ISO 17025 | 0.05 | - | - | - |
| Ammoniacal Nitrogen as NH3 | µg/l | 15 | ISO 17025 | 140000 | 95000* | 23000 | 100000* |
| Nitrate as N | mg/l | 0.01 | ISO 17025 | 0.27 | 0.25 | 0.02 | 0.23 |
| Nitrate as NO3 | mg/l | 0.05 | ISO 17025 | 1.21 | 1.10 | 0.11 | 1.00 |
| Nitrite as N | µg/l | 1 | ISO 17025 | < 1.0 | 2.8 | < 1.0 | < 1.0 |
| Nitrite as NO2 | µg/l | 5 | ISO 17025 | < 5.0 | 9.2 | < 5.0 | < 5.0 |
| **Speciated PAHs** | | | | | | | |
| Naphthalene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Acenaphthylene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Acenaphthene | µg/l | 0.01 | ISO 17025 | 6.81 | 2.17 | < 0.01 | < 0.01 |
| Fluorene | µg/l | 0.01 | ISO 17025 | 1.74 | 0.74 | < 0.01 | < 0.01 |
| Phenanthrene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Anthracene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Fluoranthene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Pyrene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Benzo(a)anthracene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Chrysene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Benzo(b)fluoranthene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Benzo(k)fluoranthene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Benzo(a)pyrene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Indeno(1,2,3-cd)pyrene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Dibenz(a,h)anthracene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Benzo(ghi)perylene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| **Total PAH** | | | | | | | |
| Total EPA-16 PAHs | µg/l | 0.16 | ISO 17025 | 8.55 | 2.91 | < 0.16 | < 0.16 |
| **Heavy Metals / Metalloids** | | | | | | | |
| Chromium (hexavalent) | µg/l | 5 | ISO 17025 | < 5.0 | < 5.0 | < 5.0 | < 5.0 |
| Arsenic (dissolved) | µg/l | 0.15 | ISO 17025 | 2.17 | 5.54 | 2.18 | 1.57 |
| Cadmium (dissolved) | µg/l | 0.02 | ISO 17025 | < 0.02 | < 0.02 | 0.04 | 0.02 |
| Chromium (dissolved) | µg/l | 0.2 | ISO 17025 | 11 | 9.9 | 10 | 10 |
| Copper (dissolved) | µg/l | 0.5 | ISO 17025 | 11 | 16 | 8.9 | 9.9 |
| Lead (dissolved) | µg/l | 0.2 | ISO 17025 | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Mercury (dissolved) | µg/l | 0.05 | ISO 17025 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Nickel (dissolved) | µg/l | 0.5 | ISO 17025 | 20 | 17 | 7.0 | 20 |
| Zinc (dissolved) | µg/l | 0.5 | ISO 17025 | 13 | 8.7 | 16 | 12 |

**Analytical Report Number: 21-76050**
**Project / Site name: Brockhampton West Havant**

**Your Order No: DS59990**

| **Lab Sample Number** | | | | 1876590 | 1876591 | 1876592 | 1876593 |
|---|---|---|---|---|---|---|---|
| **Sample Reference** | | | | DS103 | CP02A D | CP03 S | CP05 |
| **Sample Number** | | | | None Supplied | None Supplied | None Supplied | None Supplied |
| **Depth (m)** | | | | 11.00 | 18.00 | 8.00 | 9.00 |
| **Date Sampled** | | | | 19/05/2021 | 19/05/2021 | 19/05/2021 | 18/05/2021 |
| **Time Taken** | | | | None Supplied | None Supplied | None Supplied | None Supplied |
| **Analytical Parameter (Water Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | | | | |
| **Monoaromatics & Oxygenates** | | | | | | | |
| Benzene | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| Toluene | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| Ethylbenzene | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| p & m-xylene | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| o-xylene | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| MTBE (Methyl Tertiary Butyl Ether) | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| **Petroleum Hydrocarbons** | | | | | | | |
| TPH-CWG - Aliphatic >C5 - C6 | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| TPH-CWG - Aliphatic >C6 - C8 | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| TPH-CWG - Aliphatic >C8 - C10 | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| Aliphatic >C10 - C12 | µg/l | 10 | ISO 17025 | < 10 | < 10 | < 10 | < 10 |
| Aliphatic >C12 - C16 | µg/l | 10 | ISO 17025 | < 10 | < 10 | < 10 | < 10 |
| Aliphatic >C16 - C21 | µg/l | 10 | ISO 17025 | < 10 | < 10 | < 10 | < 10 |
| Aliphatic >C21 - C35 | µg/l | 10 | ISO 17025 | < 10 | < 10 | < 10 | < 10 |
| Aliphatic >C10 - C35 | µg/l | 10 | ISO 17025 | < 10 | < 10 | < 10 | < 10 |
| TPH-CWG - Aromatic >C5 - C7 | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| TPH-CWG - Aromatic >C7 - C8 | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| TPH-CWG - Aromatic >C8 - C10 | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| Aromatic >C10 - C12 | µg/l | 10 | ISO 17025 | 78 | 120 | < 10 | 55 |
| Aromatic >C12 - C16 | µg/l | 10 | ISO 17025 | 200 | 290 | < 10 | 140 |
| Aromatic >C16 - C21 | µg/l | 10 | ISO 17025 | 170 | 250 | < 10 | 150 |
| Aromatic >C21 - C35 | µg/l | 10 | ISO 17025 | < 10 | < 10 | < 10 | < 10 |
| Aromatic >C10 - C35 | µg/l | 10 | ISO 17025 | 440 | 660 | < 10 | 350 |
| **Gases** | | | | | | | |
| Methane | mg/L | 0.1 | NONE | - | - | - | - |

U/S = Unsuitable Sample  I/S = Insufficient Sample
* Result was reported from high dilution and should be interpreted with care
** Sample was delivered to Air Laboratory in deviating container and with headspace

**Analytical Report Number : 21-76050**
**Project / Site name: Brockhampton West Havant**

**Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)**

| Analytical Test Name | Analytical Method Description | Analytical Method Reference | Method number | Wet / Dry Analysis | Accreditation Status |
|---|---|---|---|---|---|
| Metals in water by ICP-MS (dissolved) | Determination of metals in water by acidification followed by ICP-MS. Accredited Matrices: SW, GW, PW except B=SW,GW, Hg=SW,PW, Al=SW,PW. | In-house method based on USEPA Method 6020 & 200.8 "for the determination of trace elements in water by ICP-MS. | L012-PL | W | ISO 17025 |
| Hexavalent chromium in water | Determination of hexavalent chromium in water by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry. | In-house method by continuous flow analyser. Accredited Matrices SW, GW, PW. | L080-PL | W | ISO 17025 |
| Nitrite in water | Determination of nitrite in water by addition of sulphanilamide and NED followed by discrete analyser (colorimetry).Accredited matrices SW, GW, PW. | In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton | L082-PL | W | ISO 17025 |
| Nitrate in water | Determination of nitrate by reaction with sodium salicylate and colorimetry. Accredited matrices SW, GW, PW | In-house method based on Examination of Water and Wastewatern & Polish Standard Method PN-82/C-04579.08, | L078-PL | W | ISO 17025 |
| Speciated EPA-16 PAHs in water | Determination of PAH compounds in water by extraction in dichloromethane followed by GC-MS with the use of surrogate and internal standards. Accredited matrices: SW PW GW | In-house method based on USEPA 8270 | L102B-PL | W | ISO 17025 |
| Sulphate in water | Determination of sulphate in water by acidification followed by ICP-OES. Accredited matrices: SW PW GW, PrW. | In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil. | L039-PL | W | ISO 17025 |
| TPHCWG (Waters) | Determination of dichloromethane extractable hydrocarbons in water by GC-MS, speciation by interpretation. | In-house method | L070-PL | W | ISO 17025 |
| TPH C10-C35 by GCxGC-FID | Determination of total petroleum hydrocarbons in water by GC x GC FID with carbon banding aliphatic and aromatic C10-C35. Accredited Matrices SW,GW,PW. | In-house method | L101B-PL | W | ISO 17025 |
| BTEX and MTBE in water (Monoaromatics) | Determination of BTEX and MTBE in water by headspace GC-MS. Accredited matrices: SW PW GW | In-house method based on USEPA8260 | L073B-PL | W | ISO 17025 |
| Ammonia as NH3 in water | Determination of Ammonium/Ammonia/ Ammoniacal Nitrogen by the colorimetric salicylate/nitroprusside method. Accredited matrices SW, GW, PW. | In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton | L082-PL | W | ISO 17025 |
| Nitrite as N in water | Determination of nitrite in water by addition of sulphanilamide and NED followed by discrete analyser (colorimetry). Accredited matrices SW, GW, PW. | In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton | L082-PL | W | ISO 17025 |
| Nitrate as N in water | Determination of nitrate by reaction with sodium salicylate and colorimetry. Accredited matrices SW, GW, PW. | In-house method based on Examination of Water and Wastewatern & Polish Standard Method PN-82/C-04579.08, | L078-PL | W | ISO 17025 |
| TPH Chromatogram in Water | TPH Chromatogram in Water. | In-house method | L070-PL | W | NONE |
| pH at 20oC in water (automated) | Determination of pH in water by electrometric measurement. Accredited matrices: SW PW GW | In house method. | L099-PL | W | ISO 17025 |
| Gases C1-C4 | Determination of volatile hydrocarbons by Refinery Gas Analyzer | In-house methods | | W | NONE |
| Chloride in water | Determination of Chloride colorimetrically by discrete analyser. | In house based on MEWAM Method ISBN 0117516260. Accredited matrices: SW, PW, GW. | L082-PL | W | ISO 17025 |
| Total Phosphate as P in water | Determination of ortho phosphate in water by addition of ammonium molybdate, potassium antimonyl tartrate and ascorbic acid followed by colorimetry.Accredited matrices: SW, PW, GW. | In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton | L082-PL | W | ISO 17025 |

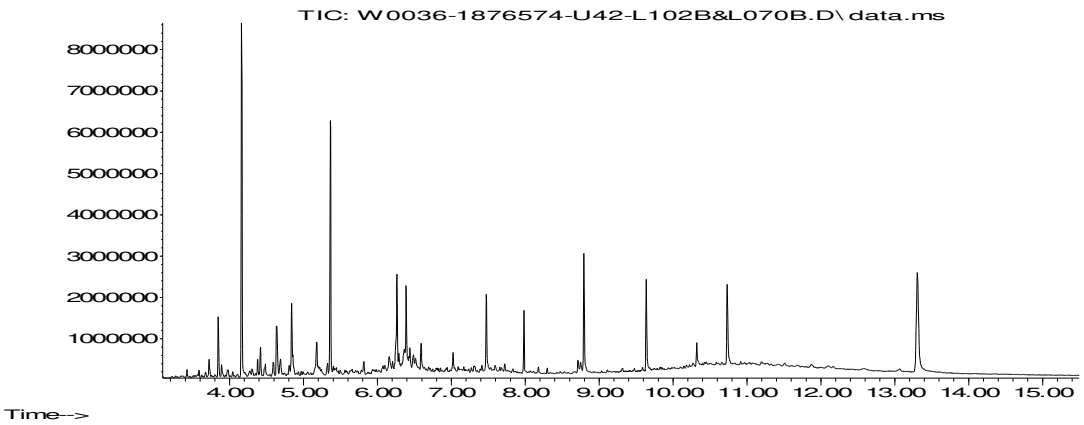
**For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.**
**For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.**
**Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.**

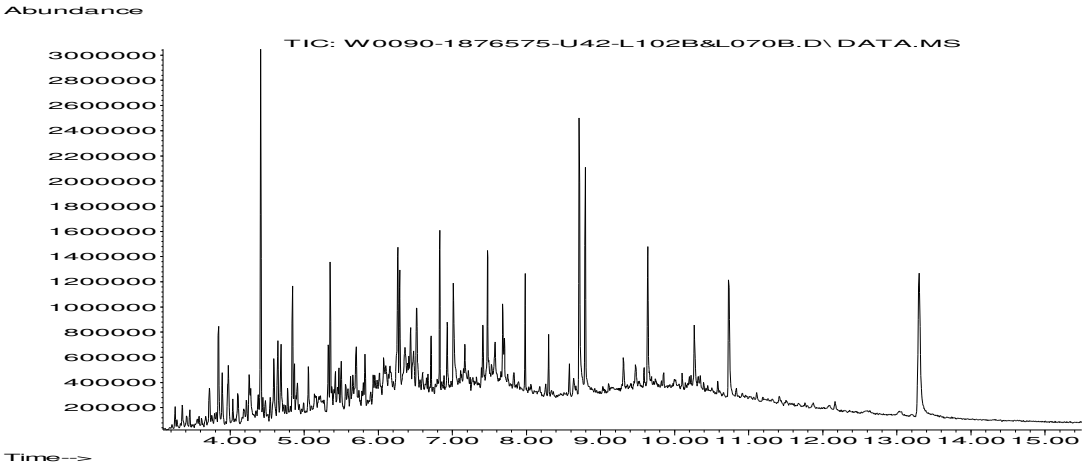
**Analytical Report Number : 21-76050**
**Project / Site name: Brockhampton West Havant**

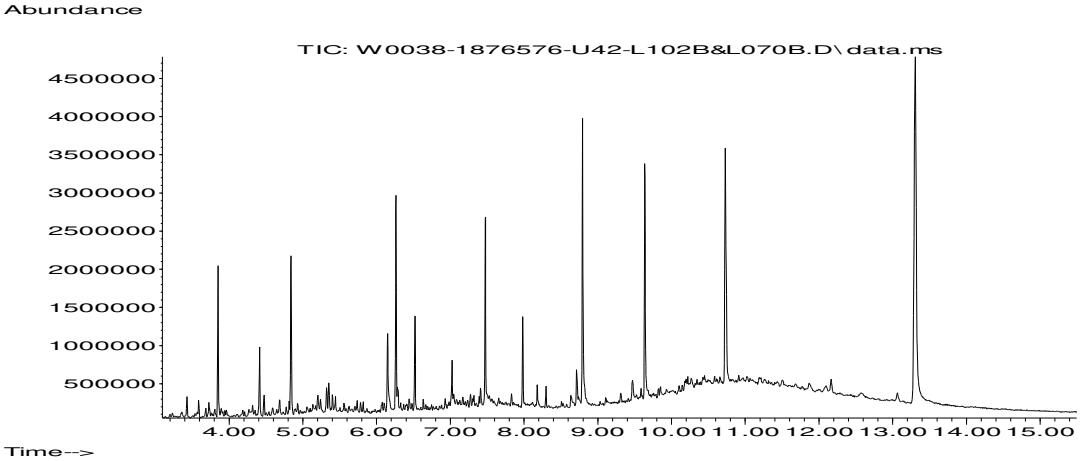
**Water matrix abbreviations: Surface Water (SW)  Potable Water (PW)  Ground Water (GW)**

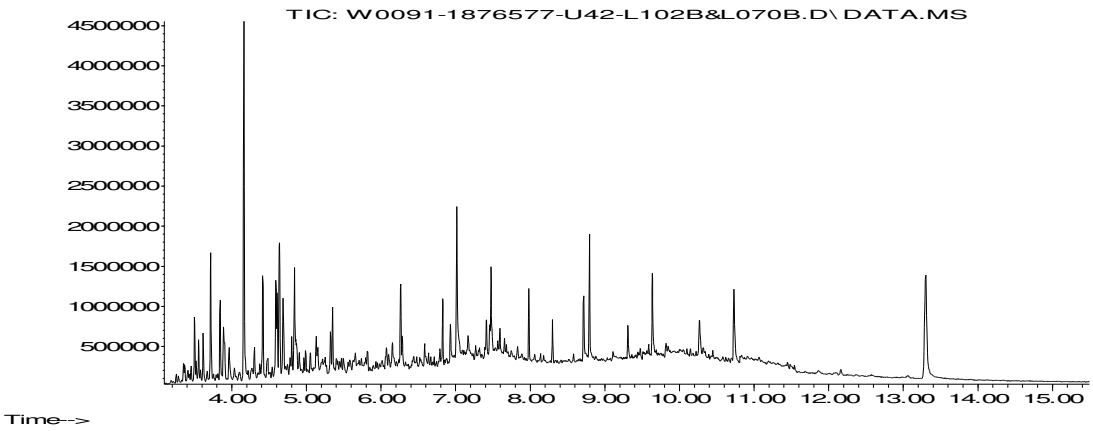
| Analytical Test Name | Analytical Method Description | Analytical Method Reference | Method number | Wet / Dry Analysis | Accreditation Status |
|---|---|---|---|---|---|

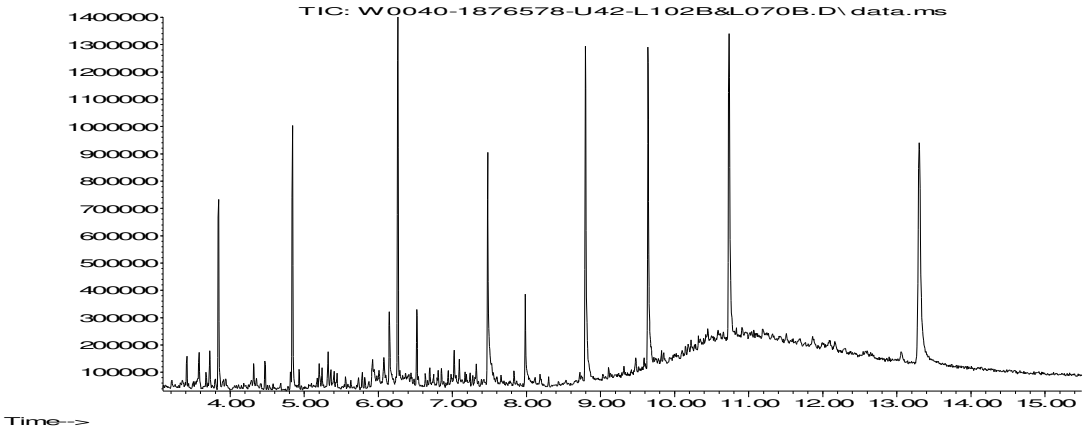
**Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.**

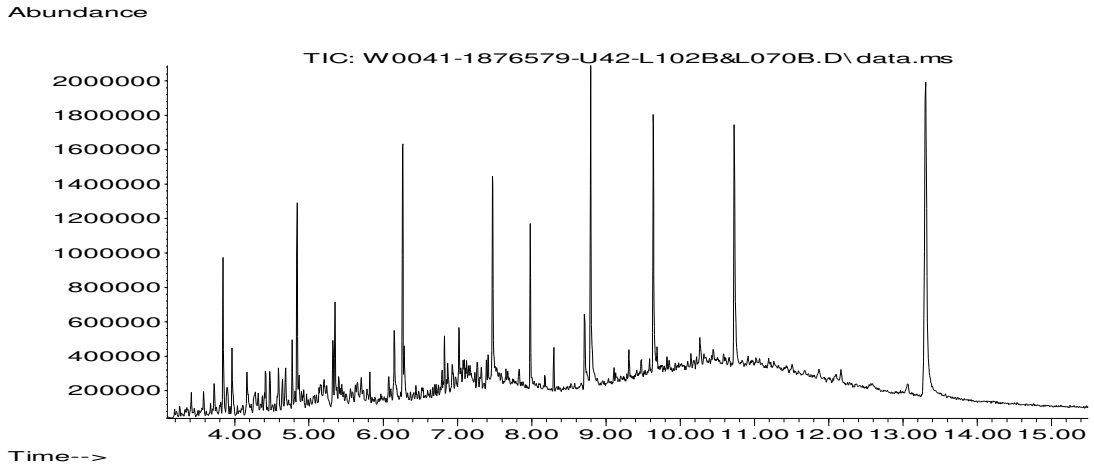

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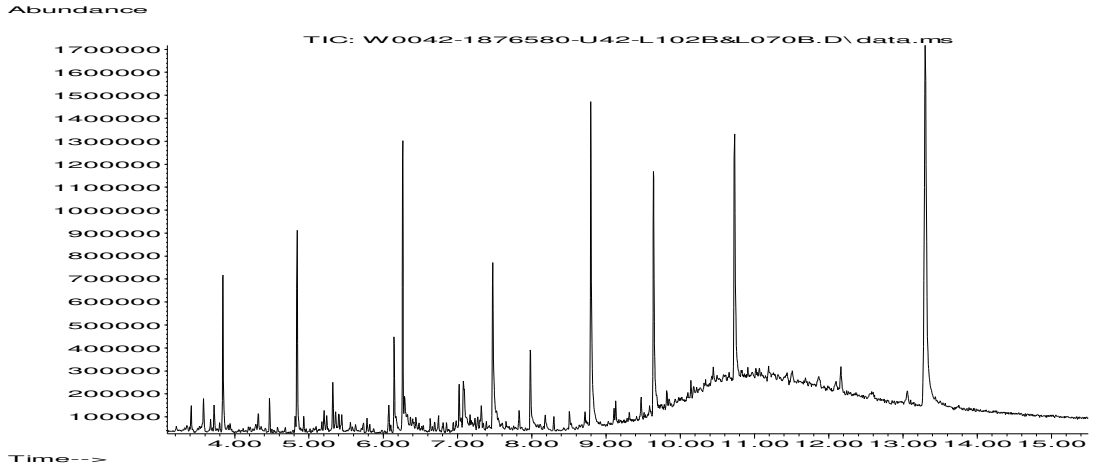

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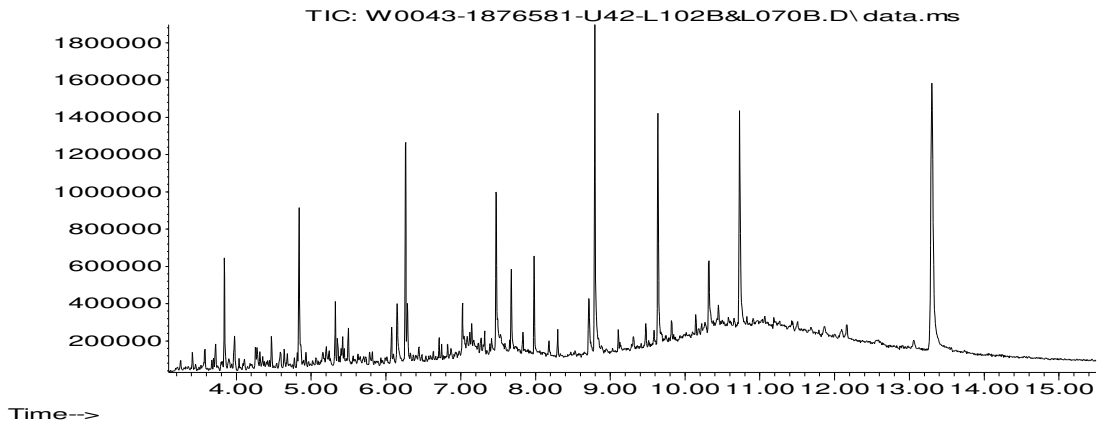

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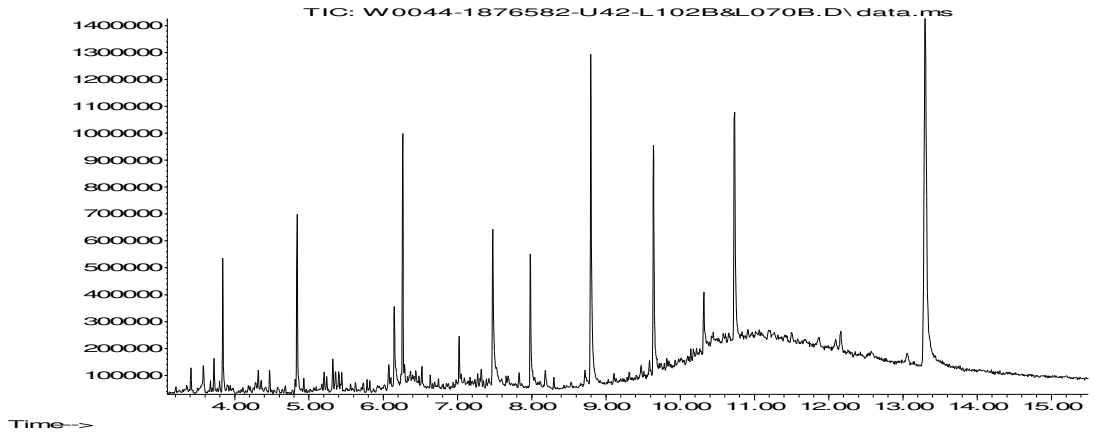

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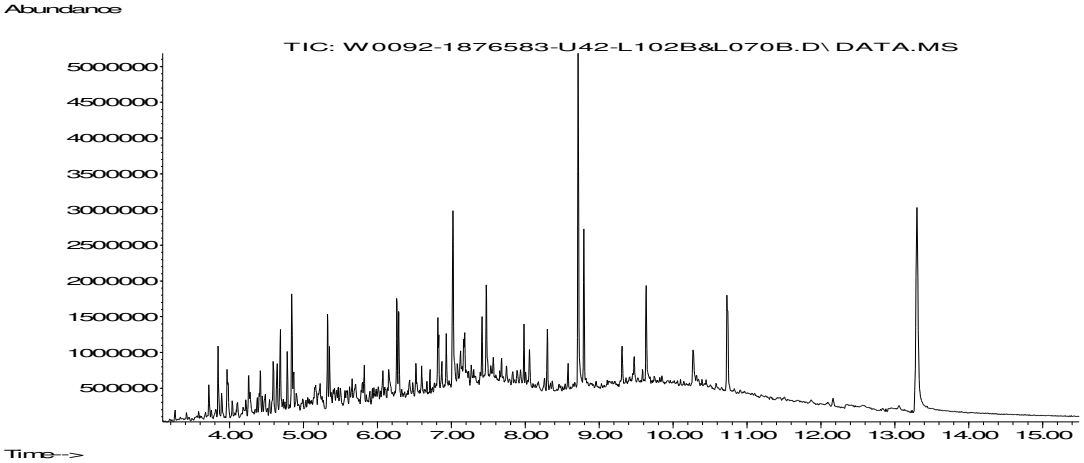

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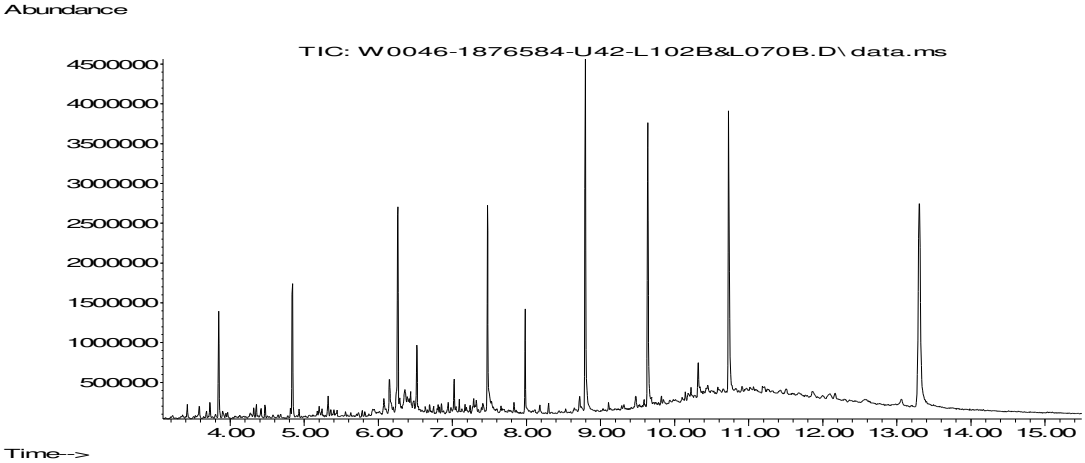

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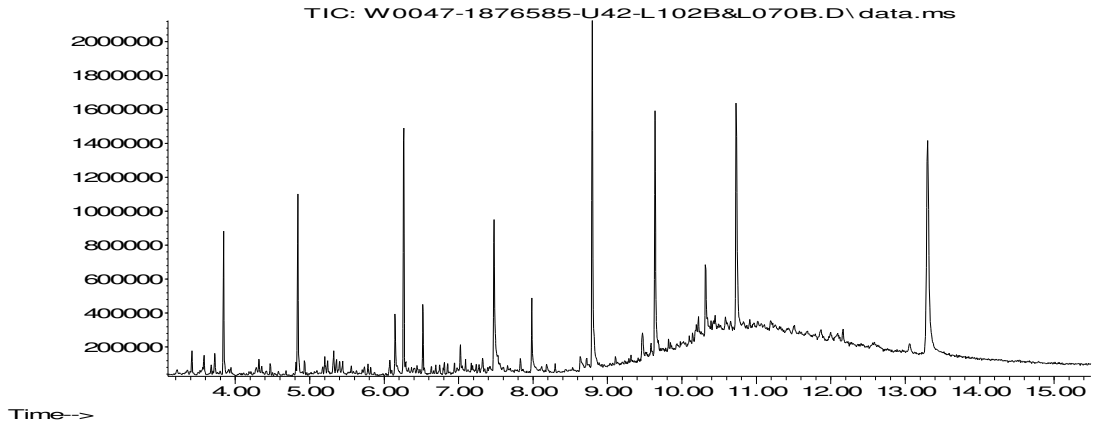

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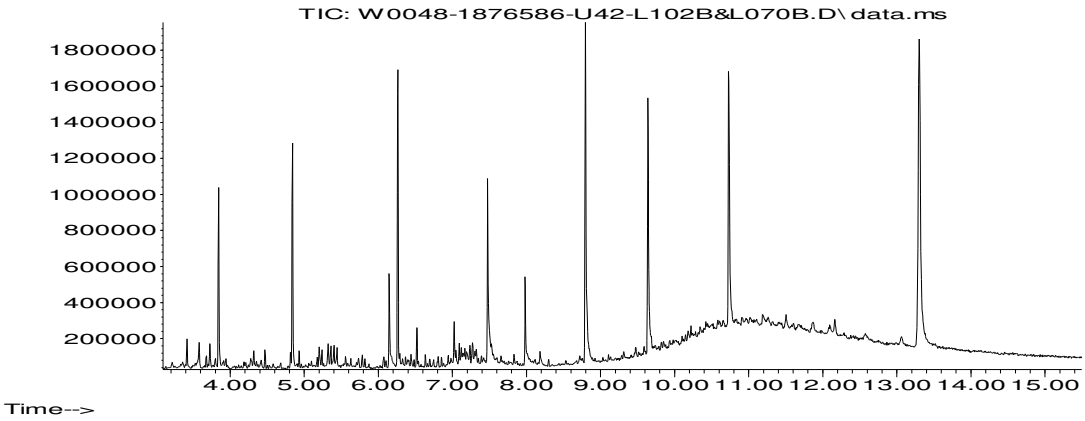

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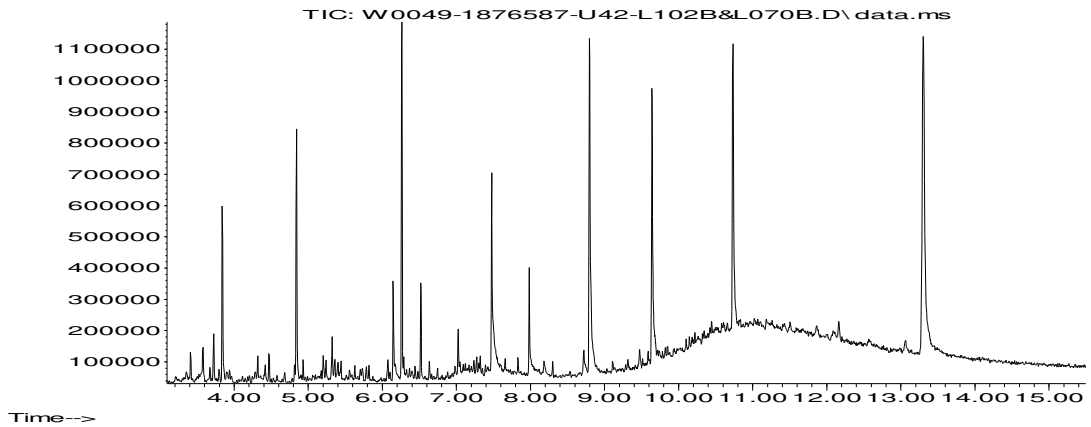

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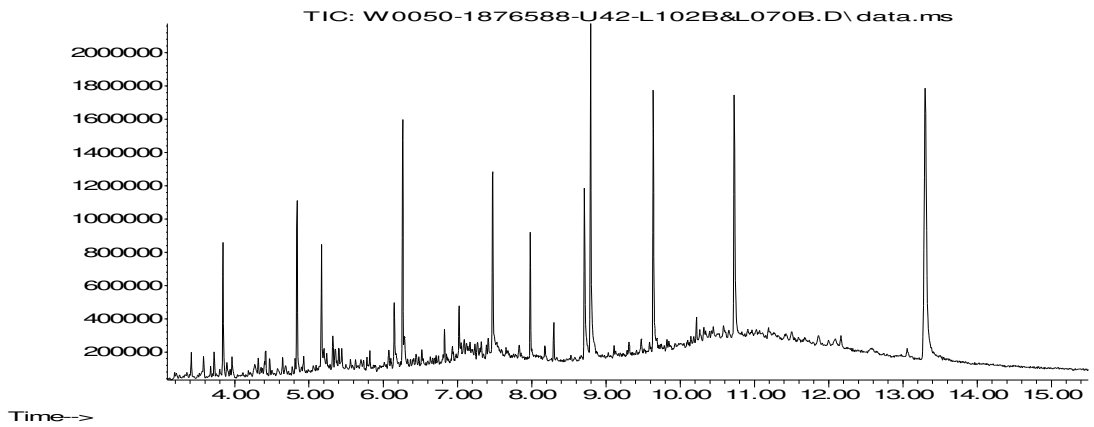

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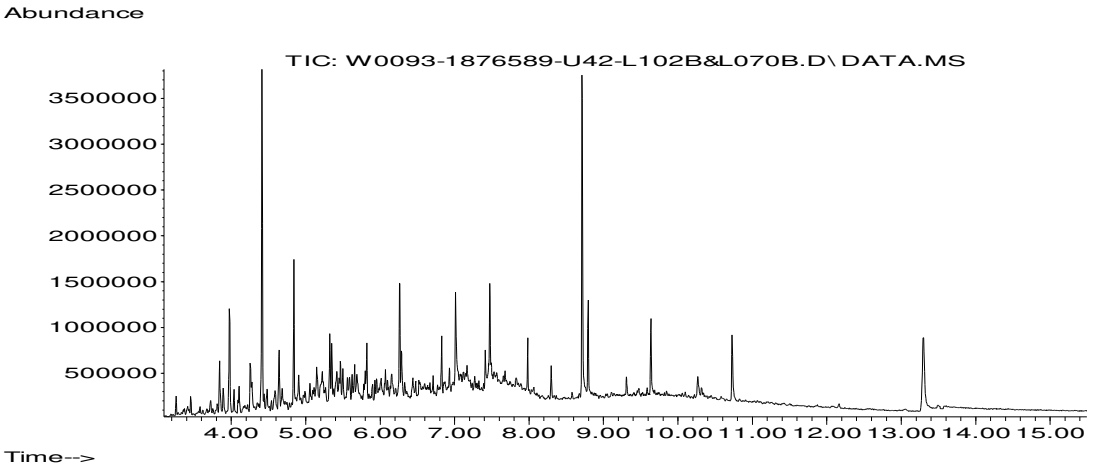

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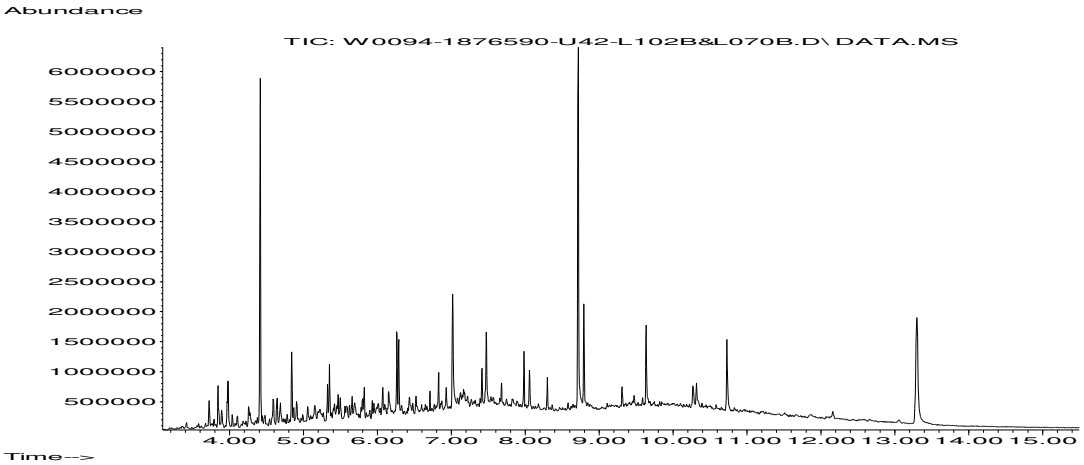

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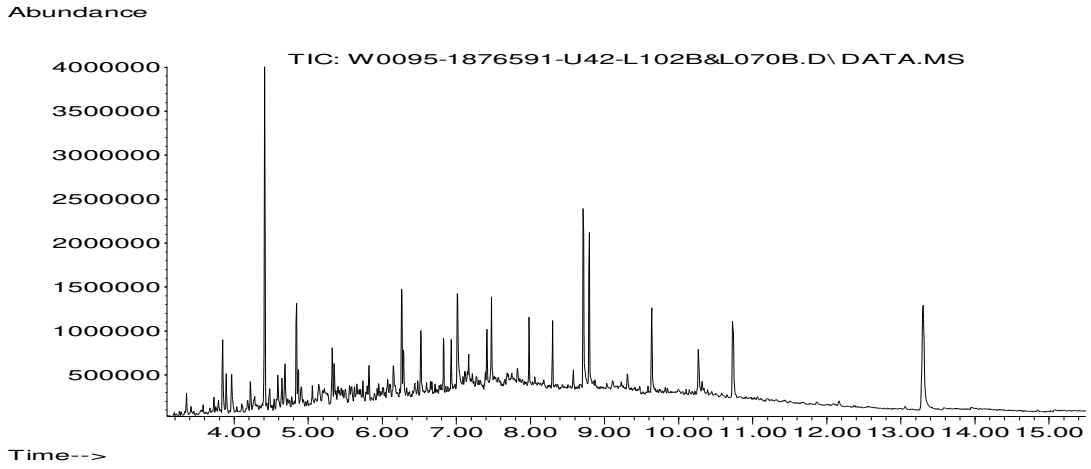

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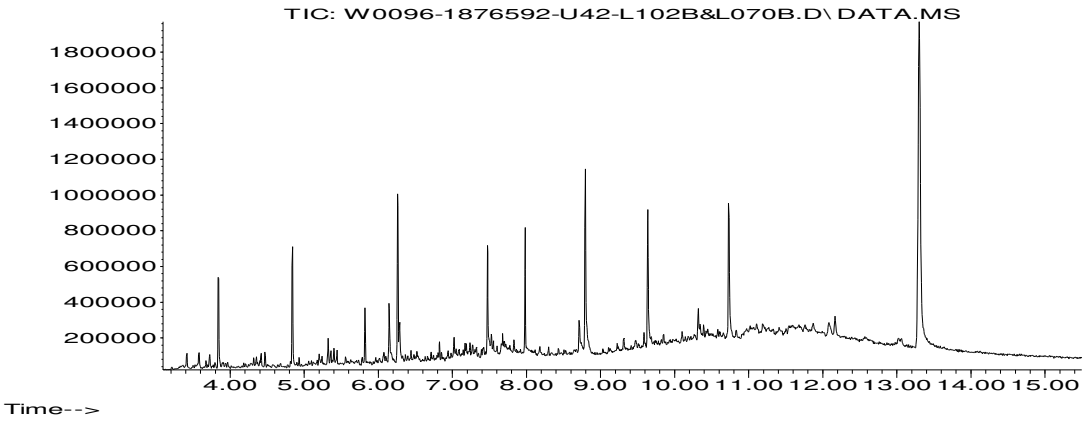

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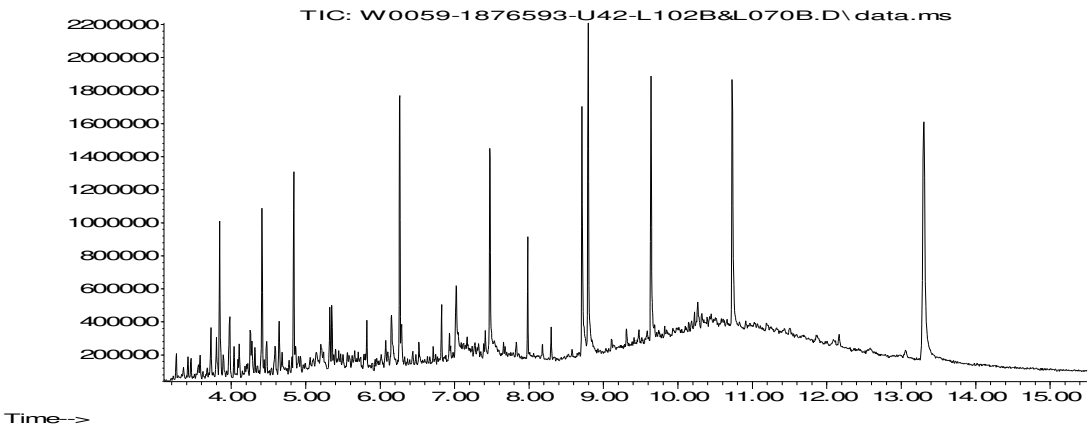

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**David Jackson**
Delta-Simons
Suite C1
Joseph's Well
Hanover Walk
Leeds
LS3 1AB

**e:** david.jackson@deltasimons.com

i2 Analytical Ltd.
7 Woodshots Meadow,
Croxley Green
Business Park,
Watford,
Herts,
WD18 8YS

**t:** 01923 225404
**f:** 01923 237404
**e:** reception@i2analytical.com

# Analytical Report Number : 21-76254

| | | | |
|---|---|---|---|
| **Project / Site name:** | Brockhampton West, Havant | **Samples received on:** | 14/05/2021 |
| **Your job number:** | 19-2099.04 | **Samples instructed on/ Analysis started on:** | 14/05/2021 |
| **Your order number:** | DS59329 | **Analysis completed by:** | 27/05/2021 |
| **Report Issue Number:** | 1 | **Report issued on:** | 27/05/2021 |
| **Samples Analysed:** | 3 soil samples | | |

**Signed:** A. Czerwińska

Agnieszka Czerwińska
Technical Reviewer (Reporting Team)
**For & on behalf of i2 Analytical Ltd.**

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

| | |
|---|---|
| soils | - 4 weeks from reporting |
| leachates | - 2 weeks from reporting |
| waters | - 2 weeks from reporting |
| asbestos | - 6 months from reporting |

Excel copies of reports are only valid when accompanied by this PDF certificate.

Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement.
Application of uncertainty of measurement would provide a range within which the true result lies.
An estimate of measurement uncertainty can be provided on request.

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The results included within the report are representative of the samples submitted for analysis.

**Analytical Report Number: 21-76254**
**Project / Site name: Brockhampton West, Havant**
**Your Order No: DS59329**

| Lab Sample Number | | | | 1877746 | 1877747 | 1877748 |
|---|---|---|---|---|---|---|
| **Sample Reference** | | | | RO103 | BH109 | BH104 |
| **Sample Number** | | | | None Supplied | None Supplied | None Supplied |
| **Depth (m)** | | | | 20.00 | 1.20-1.65 | 14.50-14.95 |
| **Date Sampled** | | | | 01/03/2021 | 01/03/2021 | 01/03/2021 |
| **Time Taken** | | | | None Supplied | None Supplied | None Supplied |
| **Analytical Parameter (Soil Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | | | |
| Stone Content | % | 0.1 | NONE | < 0.1 | < 0.1 | < 0.1 |
| Moisture Content | % | 0.01 | NONE | 20 | 20 | 17 |
| Total mass of sample received | kg | 0.001 | NONE | 0.50 | 0.40 | 0.40 |
| **General Inorganics** | | | | | | |
| pH - Automated | pH Units | N/A | MCERTS | 8.5 | 7.9 | 8.3 |
| Total Sulphate as SO4 | % | 0.005 | MCERTS | 0.038 | 0.033 | 0.047 |
| Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent) | g/l | 0.00125 | MCERTS | 0.039 | 0.12 | 0.054 |
| Total Sulphur | % | 0.005 | MCERTS | 0.017 | 0.025 | 0.016 |
| Total Organic Carbon (TOC) | % | 0.1 | MCERTS | - | 0.3 | - |

U/S = Unsuitable Sample  I/S = Insufficient Sample

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The results included within the report relate only to the sample(s) submitted for testing.

**Analytical Report Number : 21-76254**
**Project / Site name: Brockhampton West, Havant**

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

| Lab Sample Number | Sample Reference | Sample Number | Depth (m) | Sample Description * |
|---|---|---|---|---|
| 1877746 | RO103 | None Supplied | 20 | White clay with chalk and gravel. |
| 1877747 | BH109 | None Supplied | 1.20-1.65 | Brown clay and sand with gravel. |
| 1877748 | BH104 | None Supplied | 14.50-14.95 | Beige clay and gravel with chalk. |

**Analytical Report Number : 21-76254**
**Project / Site name: Brockhampton West, Havant**

**Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)**

| Analytical Test Name | Analytical Method Description | Analytical Method Reference | Method number | Wet / Dry Analysis | Accreditation Status |
|---|---|---|---|---|---|
| Sulphate, water soluble, in soil (16hr extraction) | Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent). | In house method. | L038-PL | D | MCERTS |
| Moisture Content | Moisture content, determined gravimetrically. (30 oC) | In house method. | L019-UK/PL | W | NONE |
| pH in soil (automated) | Determination of pH in soil by addition of water followed by automated electrometric measurement. | In house method. | L099-PL | D | MCERTS |
| Stones content of soil | Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight. | In-house method based on British Standard Methods and MCERTS requirements. | L019-UK/PL | D | NONE |
| Total organic carbon (Automated) in soil | Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate. | In house method. | L009-PL | D | MCERTS |
| Total Sulphate in soil as % | Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES. | In house method. | L038-PL | D | MCERTS |
| Total Sulphur in soil as % | Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES. | In house method. | L038-PL | D | MCERTS |

**For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.**
**For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.**
**Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.**

**Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.**

# Sample Deviation Report

**Analytical Report Number : 21-76254**
**Project / Site name: Brockhampton West, Havant**

| Sample ID | Other ID | Sample Type | Lab Sample Number | Sample Deviation | Test Name | Test Ref | Test Deviation |
|---|---|---|---|---|---|---|---|
| BH104 | None Supplied | S | 1877748 | c | pH in soil (automated) | L099-PL | c |
| BH109 | None Supplied | S | 1877747 | c | Organic matter (Automated) in soil | L009-PL | c |
| BH109 | None Supplied | S | 1877747 | c | Total organic carbon (Automated) in soil | L009-PL | c |
| BH109 | None Supplied | S | 1877747 | c | pH in soil (automated) | L099-PL | c |
| RO103 | None Supplied | S | 1877746 | c | pH in soil (automated) | L099-PL | c |

# Appendix F – Waste Acceptance Criteria Results

Delta-Simons

**t:** 01322 665566
**f:** 01322 661480
**e:**

i2 Analytical Ltd.
7 Woodshots Meadow,
Croxley Green
Business Park,
Watford,
Herts,
WD18 8YS

**t:** 01923 225404
**f:** 01923 237404
**e:** reception@i2analytical.com

# Analytical Report Number : 21-66970

| | | | |
|---|---|---|---|
| **Project / Site name:** | Brockhampton West Havant | **Samples received on:** | 01/04/2021 |
| **Your job number:** | 19 2099 04 | **Samples instructed on/ Analysis started on:** | 06/04/2021 |
| **Your order number:** | DS60240 | **Analysis completed by:** | 13/04/2021 |
| **Report Issue Number:** | 1 | **Report issued on:** | 13/04/2021 |
| **Samples Analysed:** | 7 wac multi samples | | |

**Signed:** A. Czerwińska

Agnieszka Czerwińska
Technical Reviewer (Reporting Team)
**For & on behalf of i2 Analytical Ltd.**

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

| | |
|---|---|
| soils | - 4 weeks from reporting |
| leachates | - 2 weeks from reporting |
| waters | - 2 weeks from reporting |
| asbestos | - 6 months from reporting |

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Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement.
Application of uncertainty of measurement would provide a range within which the true result lies.
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## Waste Acceptance Criteria Analytical Results

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Report No:** | **21-66970** | | | | | | |
| | | | | | **Client:** | **DELTASIM** | |
| **Location** | **Brockhampton West Havant** | | | | | | |
| **Lab Reference (Sample Number)** | 1827710 | | | | **Landfill Waste Acceptance Criteria Limits** | | |
| **Sampling Date** | 29/03/2021 | | | | Inert Waste Landfill | Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill | Hazardous Waste Landfill |
| **Sample ID** | TP102 Landfill | | | | | | |
| **Depth (m)** | 1.70-2.00 | | | | | | |
| **Solid Waste Analysis** | | | | | | | |
| TOC (%)** | 1.8 | | | | 3% | 5% | 6% |
| Loss on Ignition (%) ** | 6.8 | | | | -- | -- | 10% |
| BTEX (µg/kg) ** | 12 | | | | 6000 | -- | -- |
| Sum of PCBs (mg/kg) ** | < 0.30 | | | | 1 | -- | -- |
| Mineral Oil (mg/kg) # | 110 | | | | 500 | -- | -- |
| Total PAH (WAC-17) (mg/kg) | 33.2 | | | | 100 | -- | -- |
| pH (units)** | 8.3 | | | | -- | >6 | -- |
| Acid Neutralisation Capacity (mol / kg) | 20 | | | | -- | To be evaluated | To be evaluated |
| **Eluate Analysis** | 2:1 | 8:1 | | Cumulative 10:1 | Limit values for compliance leaching test | | |
| (BS EN 12457 - 3 preparation utilising end over end leaching procedure) | mg/l | mg/l | | mg/kg | using BS EN 12457-3 at L/S 10 l/kg (mg/kg) | | |
| Arsenic * | 0.015 | < 0.010 | | 0.063 | 0.5 | 2 | 25 |
| Barium * | 0.15 | 0.058 | | 0.73 | 20 | 100 | 300 |
| Cadmium * | < 0.0005 | < 0.0005 | | < 0.0020 | 0.04 | 1 | 5 |
| Chromium * | 0.0019 | < 0.0010 | | 0.0072 | 0.5 | 10 | 70 |
| Copper * | 0.087 | 0.0065 | | 0.19 | 2 | 50 | 100 |
| Mercury * | < 0.0015 | < 0.0015 | | < 0.010 | 0.01 | 0.2 | 2 |
| Molybdenum * | 0.098 | 0.010 | | 0.24 | 0.5 | 10 | 30 |
| Nickel * | 0.038 | 0.0071 | | 0.12 | 0.4 | 10 | 40 |
| Lead * | < 0.0050 | < 0.0050 | | < 0.020 | 0.5 | 10 | 50 |
| Antimony * | 0.048 | < 0.0050 | | 0.11 | 0.06 | 0.7 | 5 |
| Selenium * | < 0.010 | < 0.010 | | < 0.040 | 0.1 | 0.5 | 7 |
| Zinc * | 0.062 | 0.0109 | | 0.19 | 4 | 50 | 200 |
| Chloride * | 47 | < 4.0 | | 97 | 800 | 15000 | 25000 |
| Fluoride | 1.6 | 0.25 | | 4.7 | 10 | 150 | 500 |
| Sulphate * | 280 | 88 | | 1200 | 1000 | 20000 | 50000 |
| TDS* | 840 | 220 | | 3100 | 4000 | 60000 | 100000 |
| Phenol Index (Monohydric Phenols) * | < 0.13 | < 0.13 | | < 0.50 | 1 | - | - |
| DOC | 12 | 12 | | 120 | 500 | 800 | 1000 |
| **Leach Test Information** | | | | | | | |
| Stone Content (%) | < 0.1 | | | | | | |
| Sample Mass (kg) | 0.30 | | | | | | |
| Dry Matter (%) | 81 | | | | | | |
| Moisture (%) | 19 | | | | | | |
| **Stage 1** | | | | | | | |
| Volume Eluate L2 (litres) | 0.30 | | | | | | |
| Filtered Eluate VE1 (litres) | 0.27 | | | | | | |

Results are expressed on a dry weight basis, after correction for moisture content where applicable.

*= UKAS accredited (liquid eluate analysis only)

Stated limits are for guidance only and i2 cannot be held responsible for any discrepancies with current legislation

** = MCERTS accredited

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes as defined by the Waste (England and Wales) Regulations 2011 (as amended) and EA Guidance WM3.
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## Waste Acceptance Criteria Analytical Results

| Report No: | 21-66970 | | | | | | |
|---|---|---|---|---|---|---|---|
| | | | | | Client: DELTASIM | | |
| Location | Brockhampton West Havant | | | | | | |
| Lab Reference (Sample Number) | 1827711 | | | | Landfill Waste Acceptance Criteria Limits | | |
| Sampling Date | 30/03/2021 | | | | Inert Waste Landfill | Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill | Hazardous Waste Landfill |
| Sample ID | TP103 Waste | | | | | | |
| Depth (m) | 1.80-2.00 | | | | | | |
| **Solid Waste Analysis** | | | | | | | |
| TOC (%)** | 1.7 | | | | 3% | 5% | 6% |
| Loss on Ignition (%) ** | 5.2 | | | | -- | -- | 10% |
| BTEX (µg/kg) ** | < 10 | | | | 6000 | -- | -- |
| Sum of PCBs (mg/kg) ** | < 0.30 | | | | 1 | -- | -- |
| Mineral Oil (mg/kg) # | 420 | | | | 500 | -- | -- |
| Total PAH (WAC-17) (mg/kg) | 81.3 | | | | 100 | -- | -- |
| pH (units)** | 8.2 | | | | -- | >6 | -- |
| Acid Neutralisation Capacity (mol / kg) | 9.8 | | | | -- | To be evaluated | To be evaluated |
| **Eluate Analysis** | 2:1 | 8:1 | | Cumulative 10:1 | Limit values for compliance leaching test | | |
| (BS EN 12457 - 3 preparation utilising end over end leaching procedure) | mg/l | mg/l | | mg/kg | using BS EN 12457-3 at L/S 10 l/kg (mg/kg) | | |
| Arsenic * | < 0.010 | < 0.010 | | < 0.050 | 0.5 | 2 | 25 |
| Barium * | 0.15 | 0.11 | | 1.1 | 20 | 100 | 300 |
| Cadmium * | < 0.0005 | < 0.0005 | | < 0.0020 | 0.04 | 1 | 5 |
| Chromium * | 0.0024 | < 0.0010 | | 0.0081 | 0.5 | 10 | 70 |
| Copper * | 0.078 | 0.0055 | | 0.15 | 2 | 50 | 100 |
| Mercury * | < 0.0015 | < 0.0015 | | < 0.010 | 0.01 | 0.2 | 2 |
| Molybdenum * | 0.055 | 0.012 | | 0.18 | 0.5 | 10 | 30 |
| Nickel * | 0.013 | 0.0075 | | 0.083 | 0.4 | 10 | 40 |
| Lead * | < 0.0050 | < 0.0050 | | < 0.020 | 0.5 | 10 | 50 |
| Antimony * | 0.0065 | 0.0059 | | 0.060 | 0.06 | 0.7 | 5 |
| Selenium * | 0.019 | 0.014 | | 0.15 | 0.1 | 0.5 | 7 |
| Zinc * | 0.062 | 0.0089 | | 0.16 | 4 | 50 | 200 |
| Chloride * | 180 | 14 | | 360 | 800 | 15000 | 25000 |
| Fluoride | 2.0 | 0.64 | | 8.3 | 10 | 150 | 500 |
| Sulphate * | 340 | 170 | | 1900 | 1000 | 20000 | 50000 |
| TDS* | 720 | 290 | | 3500 | 4000 | 60000 | 100000 |
| Phenol Index (Monohydric Phenols) * | < 0.13 | < 0.13 | | < 0.50 | 1 | - | - |
| DOC | 20 | 13 | | 140 | 500 | 800 | 1000 |
| **Leach Test Information** | | | | | | | |
| Stone Content (%) | < 0.1 | | | | | | |
| Sample Mass (kg) | 0.30 | | | | | | |
| Dry Matter (%) | 88 | | | | | | |
| Moisture (%) | 12 | | | | | | |
| **Stage 1** | | | | | | | |
| Volume Eluate L2 (litres) | 0.31 | | | | | | |
| Filtered Eluate VE1 (litres) | 0.24 | | | | | | |

Results are expressed on a dry weight basis, after correction for moisture content where applicable.

*= UKAS accredited (liquid eluate analysis only)

Stated limits are for guidance only and i2 cannot be held responsible for any discrepencies with current legislation

** = MCERTS accredited

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## Waste Acceptance Criteria Analytical Results

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Report No:** | **21-66970** | | | | | | |
| | | | | | **Client:** | **DELTASIM** | |
| **Location** | **Brockhampton West Havant** | | | | | | |
| **Lab Reference (Sample Number)** | 1827712 | | | | **Landfill Waste Acceptance Criteria Limits** | | |
| **Sampling Date** | 29/03/2021 | | | | Inert Waste Landfill | Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill | Hazardous Waste Landfill |
| **Sample ID** | TP105 Waste | | | | | | |
| **Depth (m)** | 3.00-3.50 | | | | | | |
| **Solid Waste Analysis** | | | | | | | |
| TOC (%)** | 4.6 | | | | 3% | 5% | 6% |
| Loss on Ignition (%) ** | 11 | | | | -- | -- | 10% |
| BTEX (µg/kg) ** | 46 | | | | 6000 | -- | -- |
| Sum of PCBs (mg/kg) ** | < 0.30 | | | | 1 | -- | -- |
| Mineral Oil (mg/kg) # | 2900 | | | | 500 | -- | -- |
| Total PAH (WAC-17) (mg/kg) | 32.8 | | | | 100 | -- | -- |
| pH (units)** | 7.6 | | | | -- | >6 | -- |
| Acid Neutralisation Capacity (mol / kg) | 6.4 | | | | -- | To be evaluated | To be evaluated |
| **Eluate Analysis** | 2:1 | 8:1 | | Cumulative 10:1 | Limit values for compliance leaching test | | |
| (BS EN 12457 - 3 preparation utilising end over end leaching procedure) | mg/l | mg/l | | mg/kg | using BS EN 12457-3 at L/S 10 l/kg (mg/kg) | | |
| Arsenic * | < 0.010 | < 0.010 | | < 0.050 | 0.5 | 2 | 25 |
| Barium * | 0.16 | 0.12 | | 1.3 | 20 | 100 | 300 |
| Cadmium * | < 0.0005 | < 0.0005 | | < 0.0020 | 0.04 | 1 | 5 |
| Chromium * | 0.0016 | < 0.0010 | | 0.011 | 0.5 | 10 | 70 |
| Copper * | 0.031 | 0.021 | | 0.22 | 2 | 50 | 100 |
| Mercury * | < 0.0015 | < 0.0015 | | < 0.010 | 0.01 | 0.2 | 2 |
| Molybdenum * | 0.0086 | 0.0055 | | 0.059 | 0.5 | 10 | 30 |
| Nickel * | 0.051 | 0.024 | | 0.27 | 0.4 | 10 | 40 |
| Lead * | 0.054 | 0.077 | | 0.74 | 0.5 | 10 | 50 |
| Antimony * | 0.0060 | < 0.0050 | | 0.023 | 0.06 | 0.7 | 5 |
| Selenium * | < 0.010 | < 0.010 | | 0.042 | 0.1 | 0.5 | 7 |
| Zinc * | 0.19 | 0.1020 | | 1.1 | 4 | 50 | 200 |
| Chloride * | 58 | 11 | | 170 | 800 | 15000 | 25000 |
| Fluoride | 0.61 | 0.72 | | 7.1 | 10 | 150 | 500 |
| Sulphate * | 1400 | 400 | | 5300 | 1000 | 20000 | 50000 |
| TDS* | 1000 | 470 | | 5500 | 4000 | 60000 | 100000 |
| Phenol Index (Monohydric Phenols) * | < 0.13 | < 0.13 | | < 0.50 | 1 | - | - |
| DOC | 28 | 38 | | 370 | 500 | 800 | 1000 |
| **Leach Test Information** | | | | | | | |
| Stone Content (%) | < 0.1 | | | | | | |
| Sample Mass (kg) | 0.50 | | | | | | |
| Dry Matter (%) | 66 | | | | | | |
| Moisture (%) | 34 | | | | | | |
| **Stage 1** | | | | | | | |
| Volume Eluate L2 (litres) | 0.29 | | | | | | |
| Filtered Eluate VE1 (litres) | 0.23 | | | | | | |

Results are expressed on a dry weight basis, after correction for moisture content where applicable.

*= UKAS accredited (liquid eluate analysis only)

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## Waste Acceptance Criteria Analytical Results

| Report No: | 21-66970 | | | | | | |
|---|---|---|---|---|---|---|---|
| | | | | | Client: DELTASIM | | |
| Location | Brockhampton West Havant | | | | | | |
| Lab Reference (Sample Number) | 1827713 | | | | Landfill Waste Acceptance Criteria Limits | | |
| Sampling Date | 31/03/2021 | | | | Inert Waste Landfill | Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill | Hazardous Waste Landfill |
| Sample ID | TP107 Waste | | | | | | |
| Depth (m) | 1.70-2.30 | | | | | | |
| **Solid Waste Analysis** | | | | | | | |
| TOC (%)** | 0.7 | | | | 3% | 5% | 6% |
| Loss on Ignition (%) ** | 3.1 | | | | -- | -- | 10% |
| BTEX (µg/kg) ** | < 10 | | | | 6000 | -- | -- |
| Sum of PCBs (mg/kg) ** | < 0.30 | | | | 1 | -- | -- |
| Mineral Oil (mg/kg) # | 81 | | | | 500 | -- | -- |
| Total PAH (WAC-17) (mg/kg) | 3.95 | | | | 100 | -- | -- |
| pH (units)** | 7.9 | | | | -- | >6 | -- |
| Acid Neutralisation Capacity (mol / kg) | 1.5 | | | | -- | To be evaluated | To be evaluated |
| **Eluate Analysis** | 2:1 | 8:1 | | Cumulative 10:1 | Limit values for compliance leaching test | | |
| (BS EN 12457 - 3 preparation utilising end over end leaching procedure) | mg/l | mg/l | | mg/kg | using BS EN 12457-3 at L/S 10 l/kg (mg/kg) | | |
| Arsenic * | < 0.010 | < 0.010 | | < 0.050 | 0.5 | 2 | 25 |
| Barium * | 0.058 | 0.037 | | 0.40 | 20 | 100 | 300 |
| Cadmium * | < 0.0005 | < 0.0005 | | < 0.0020 | 0.04 | 1 | 5 |
| Chromium * | 0.0022 | < 0.0010 | | 0.0079 | 0.5 | 10 | 70 |
| Copper * | 0.042 | 0.0074 | | 0.12 | 2 | 50 | 100 |
| Mercury * | < 0.0015 | < 0.0015 | | < 0.010 | 0.01 | 0.2 | 2 |
| Molybdenum * | 0.013 | 0.0044 | | 0.054 | 0.5 | 10 | 30 |
| Nickel * | 0.0081 | 0.0035 | | 0.041 | 0.4 | 10 | 40 |
| Lead * | < 0.0050 | < 0.0050 | | < 0.020 | 0.5 | 10 | 50 |
| Antimony * | < 0.0050 | < 0.0050 | | < 0.020 | 0.06 | 0.7 | 5 |
| Selenium * | < 0.010 | < 0.010 | | < 0.040 | 0.1 | 0.5 | 7 |
| Zinc * | 0.040 | 0.0084 | | 0.12 | 4 | 50 | 200 |
| Chloride * | 9.1 | < 4.0 | | 40 | 800 | 15000 | 25000 |
| Fluoride | 1.9 | 0.74 | | 8.9 | 10 | 150 | 500 |
| Sulphate * | 46 | 54 | | 530 | 1000 | 20000 | 50000 |
| TDS* | 280 | 160 | | 1800 | 4000 | 60000 | 100000 |
| Phenol Index (Monohydric Phenols) * | < 0.13 | < 0.13 | | < 0.50 | 1 | - | - |
| DOC | 12 | 14 | | 140 | 500 | 800 | 1000 |
| **Leach Test Information** | | | | | | | |
| Stone Content (%) | < 0.1 | | | | | | |
| Sample Mass (kg) | 1.0 | | | | | | |
| Dry Matter (%) | 79 | | | | | | |
| Moisture (%) | 21 | | | | | | |
| **Stage 1** | | | | | | | |
| Volume Eluate L2 (litres) | 0.30 | | | | | | |
| Filtered Eluate VE1 (litres) | 0.22 | | | | | | |

Results are expressed on a dry weight basis, after correction for moisture content where applicable.

*= UKAS accredited (liquid eluate analysis only)

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## Waste Acceptance Criteria Analytical Results

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Report No:** | **21-66970** | | | | | | |
| | | | | | **Client:** | **DELTASIM** | |
| **Location** | **Brockhampton West Havant** | | | | | | |
| **Lab Reference (Sample Number)** | 1827714 | | | | **Landfill Waste Acceptance Criteria Limits** | | |
| **Sampling Date** | 30/03/2021 | | | | Inert Waste Landfill | Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill | Hazardous Waste Landfill |
| **Sample ID** | TP108 Waste | | | | | | |
| **Depth (m)** | 2.00-2.50 | | | | | | |
| **Solid Waste Analysis** | | | | | | | |
| TOC (%)** | 2.3 | | | | 3% | 5% | 6% |
| Loss on Ignition (%) ** | 13 | | | | -- | -- | 10% |
| BTEX (µg/kg) ** | < 10 | | | | 6000 | -- | -- |
| Sum of PCBs (mg/kg) ** | < 0.30 | | | | 1 | -- | -- |
| Mineral Oil (mg/kg) # | 380 | | | | 500 | -- | -- |
| Total PAH (WAC-17) (mg/kg) | 5.87 | | | | 100 | -- | -- |
| pH (units)** | 8.6 | | | | -- | >6 | -- |
| Acid Neutralisation Capacity (mol / kg) | 19 | | | | -- | To be evaluated | To be evaluated |
| **Eluate Analysis** | 2:1 | 8:1 | | Cumulative 10:1 | Limit values for compliance leaching test | | |
| (BS EN 12457 - 3 preparation utilising end over end leaching procedure) | mg/l | mg/l | | mg/kg | using BS EN 12457-3 at L/S 10 l/kg (mg/kg) | | |
| Arsenic * | < 0.010 | < 0.010 | | 0.060 | 0.5 | 2 | 25 |
| Barium * | 0.069 | 0.097 | | 0.93 | 20 | 100 | 300 |
| Cadmium * | < 0.0005 | 0.0012 | | 0.011 | 0.04 | 1 | 5 |
| Chromium * | 0.0011 | 0.0027 | | 0.025 | 0.5 | 10 | 70 |
| Copper * | 0.043 | 0.028 | | 0.30 | 2 | 50 | 100 |
| Mercury * | < 0.0015 | < 0.0015 | | < 0.010 | 0.01 | 0.2 | 2 |
| Molybdenum * | 0.16 | 0.087 | | 0.97 | 0.5 | 10 | 30 |
| Nickel * | 0.034 | 0.018 | | 0.20 | 0.4 | 10 | 40 |
| Lead * | < 0.0050 | 0.028 | | 0.24 | 0.5 | 10 | 50 |
| Antimony * | 0.14 | 0.11 | | 1.1 | 0.06 | 0.7 | 5 |
| Selenium * | < 0.010 | < 0.010 | | < 0.040 | 0.1 | 0.5 | 7 |
| Zinc * | 0.038 | 0.1222 | | 1.1 | 4 | 50 | 200 |
| Chloride * | 160 | 23 | | 420 | 800 | 15000 | 25000 |
| Fluoride | 1.4 | 1.1 | | 11 | 10 | 150 | 500 |
| Sulphate * | 330 | 190 | | 2100 | 1000 | 20000 | 50000 |
| TDS* | 480 | 300 | | 3200 | 4000 | 60000 | 100000 |
| Phenol Index (Monohydric Phenols) * | < 0.13 | < 0.13 | | < 0.50 | 1 | - | - |
| DOC | 41 | 20 | | 230 | 500 | 800 | 1000 |
| **Leach Test Information** | | | | | | | |
| Stone Content (%) | < 0.1 | | | | | | |
| Sample Mass (kg) | 0.70 | | | | | | |
| Dry Matter (%) | 80 | | | | | | |
| Moisture (%) | 20 | | | | | | |
| **Stage 1** | | | | | | | |
| Volume Eluate L2 (litres) | 0.32 | | | | | | |
| Filtered Eluate VE1 (litres) | 0.24 | | | | | | |

Results are expressed on a dry weight basis, after correction for moisture content where applicable.

*= UKAS accredited (liquid eluate analysis only)

Stated limits are for guidance only and i2 cannot be held responsible for any discrepencies with current legislation

** = MCERTS accredited

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes as defined by the Waste (England and Wales) Regulations 2011 (as amended) and EA Guidance WM3.
This analysis is only applicable for landfill acceptance criteria (The Environmental Permitting (England and Wales) Regulations) and does not give any indication as to whether a waste may be hazardous or non-hazardous.


This certificate should not be reproduced, except in full, without the express permission of the laboratory.
The results included within the report are representative of the samples submitted for analysis.

**i2 Analytical**
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Watford, WD18 8YS

Telephone: 01923 225404
Fax: 01923 237404
email:reception@i2analytical.com

## Waste Acceptance Criteria Analytical Results

| Report No: | 21-66970 | | | | | | |
|---|---|---|---|---|---|---|---|
| | | | | | Client: DELTASIM | | |
| Location | Brockhampton West Havant | | | | | | |
| Lab Reference (Sample Number) | 1827715 | | | | Landfill Waste Acceptance Criteria Limits | | |
| Sampling Date | 01/04/2021 | | | | Inert Waste Landfill | Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill | Hazardous Waste Landfill |
| Sample ID | TP119 Waste | | | | | | |
| Depth (m) | 1.00-1.50 | | | | | | |
| **Solid Waste Analysis** | | | | | | | |
| TOC (%)** | 7.2 | | | | 3% | 5% | 6% |
| Loss on Ignition (%) ** | 34 | | | | -- | -- | 10% |
| BTEX (µg/kg) ** | < 10 | | | | 6000 | -- | -- |
| Sum of PCBs (mg/kg) ** | < 0.30 | | | | 1 | -- | -- |
| Mineral Oil (mg/kg) # | 4000 | | | | 500 | -- | -- |
| Total PAH (WAC-17) (mg/kg) | 2.89 | | | | 100 | -- | -- |
| pH (units)** | 7.7 | | | | -- | >6 | -- |
| Acid Neutralisation Capacity (mol / kg) | 6.1 | | | | -- | To be evaluated | To be evaluated |
| **Eluate Analysis** | 2:1 | 8:1 | | Cumulative 10:1 | Limit values for compliance leaching test | | |
| (BS EN 12457 - 3 preparation utilising end over end leaching procedure) | mg/l | mg/l | | mg/kg | using BS EN 12457-3 at L/S 10 l/kg (mg/kg) | | |
| Arsenic * | < 0.010 | < 0.010 | | < 0.050 | 0.5 | 2 | 25 |
| Barium * | 0.075 | 0.075 | | 0.75 | 20 | 100 | 300 |
| Cadmium * | < 0.0005 | < 0.0005 | | 0.0021 | 0.04 | 1 | 5 |
| Chromium * | 0.0010 | 0.0012 | | 0.012 | 0.5 | 10 | 70 |
| Copper * | 0.032 | 0.016 | | 0.18 | 2 | 50 | 100 |
| Mercury * | < 0.0015 | < 0.0015 | | < 0.010 | 0.01 | 0.2 | 2 |
| Molybdenum * | 0.028 | 0.013 | | 0.15 | 0.5 | 10 | 30 |
| Nickel * | 0.0099 | 0.0069 | | 0.072 | 0.4 | 10 | 40 |
| Lead * | < 0.0050 | < 0.0050 | | 0.044 | 0.5 | 10 | 50 |
| Antimony * | 0.022 | 0.012 | | 0.13 | 0.06 | 0.7 | 5 |
| Selenium * | < 0.010 | < 0.010 | | 0.056 | 0.1 | 0.5 | 7 |
| Zinc * | 0.031 | 0.0334 | | 0.33 | 4 | 50 | 200 |
| Chloride * | 180 | 29 | | 440 | 800 | 15000 | 25000 |
| Fluoride | 0.17 | 0.15 | | 1.5 | 10 | 150 | 500 |
| Sulphate * | 210 | 210 | | 2100 | 1000 | 20000 | 50000 |
| TDS* | 650 | 400 | | 4300 | 4000 | 60000 | 100000 |
| Phenol Index (Monohydric Phenols) * | < 0.13 | < 0.13 | | < 0.50 | 1 | - | - |
| DOC | 39 | 23 | | 240 | 500 | 800 | 1000 |
| **Leach Test Information** | | | | | | | |
| Stone Content (%) | < 0.1 | | | | | | |
| Sample Mass (kg) | 1.2 | | | | | | |
| Dry Matter (%) | 36 | | | | | | |
| Moisture (%) | 64 | | | | | | |
| **Stage 1** | | | | | | | |
| Volume Eluate L2 (litres) | 0.14 | | | | | | |
| Filtered Eluate VE1 (litres) | 0.18 | | | | | | |

Results are expressed on a dry weight basis, after correction for moisture content where applicable.

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## Waste Acceptance Criteria Analytical Results

| Report No: | 21-66970 | | | | | | |
|---|---|---|---|---|---|---|---|
| | | | | | Client: DELTASIM | | |
| Location | Brockhampton West Havant | | | | | | |
| Lab Reference (Sample Number) | 1827716 | | | | Landfill Waste Acceptance Criteria Limits | | |
| Sampling Date | 01/04/2021 | | | | Inert Waste Landfill | Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill | Hazardous Waste Landfill |
| Sample ID | TP120 Waste | | | | | | |
| Depth (m) | 1.50-2.00 | | | | | | |
| **Solid Waste Analysis** | | | | | | | |
| TOC (%)** | 1.3 | | | | 3% | 5% | 6% |
| Loss on Ignition (%) ** | 5.8 | | | | -- | -- | 10% |
| BTEX (µg/kg) ** | < 10 | | | | 6000 | -- | -- |
| Sum of PCBs (mg/kg) ** | < 0.30 | | | | 1 | -- | -- |
| Mineral Oil (mg/kg) # | 120 | | | | 500 | -- | -- |
| Total PAH (WAC-17) (mg/kg) | 9.59 | | | | 100 | -- | -- |
| pH (units)** | 7.9 | | | | -- | >6 | -- |
| Acid Neutralisation Capacity (mol / kg) | 12 | | | | -- | To be evaluated | To be evaluated |
| **Eluate Analysis** | 2:1 | 8:1 | | Cumulative 10:1 | Limit values for compliance leaching test | | |
| (BS EN 12457 - 3 preparation utilising end over end leaching procedure) | mg/l | mg/l | | mg/kg | using BS EN 12457-3 at L/S 10 l/kg (mg/kg) | | |
| Arsenic * | < 0.010 | < 0.010 | | < 0.050 | 0.5 | 2 | 25 |
| Barium * | 0.055 | 0.12 | | 1.2 | 20 | 100 | 300 |
| Cadmium * | < 0.0005 | < 0.0005 | | < 0.0020 | 0.04 | 1 | 5 |
| Chromium * | < 0.0010 | < 0.0010 | | 0.0085 | 0.5 | 10 | 70 |
| Copper * | 0.033 | 0.022 | | 0.23 | 2 | 50 | 100 |
| Mercury * | < 0.0015 | < 0.0015 | | < 0.010 | 0.01 | 0.2 | 2 |
| Molybdenum * | 0.078 | 0.022 | | 0.29 | 0.5 | 10 | 30 |
| Nickel * | 0.011 | 0.0036 | | 0.045 | 0.4 | 10 | 40 |
| Lead * | < 0.0050 | < 0.0050 | | < 0.020 | 0.5 | 10 | 50 |
| Antimony * | 0.045 | 0.020 | | 0.23 | 0.06 | 0.7 | 5 |
| Selenium * | < 0.010 | < 0.010 | | 0.045 | 0.1 | 0.5 | 7 |
| Zinc * | 0.016 | 0.0181 | | 0.18 | 4 | 50 | 200 |
| Chloride * | 39 | 4.3 | | 85 | 800 | 15000 | 25000 |
| Fluoride | 0.68 | 0.44 | | 4.7 | 10 | 150 | 500 |
| Sulphate * | 100 | 150 | | 1400 | 1000 | 20000 | 50000 |
| TDS* | 380 | 310 | | 3200 | 4000 | 60000 | 100000 |
| Phenol Index (Monohydric Phenols) * | < 0.13 | < 0.13 | | < 0.50 | 1 | - | - |
| DOC | 28 | 9.7 | | 120 | 500 | 800 | 1000 |
| **Leach Test Information** | | | | | | | |
| Stone Content (%) | < 0.1 | | | | | | |
| Sample Mass (kg) | 2.0 | | | | | | |
| Dry Matter (%) | 84 | | | | | | |
| Moisture (%) | 16 | | | | | | |
| **Stage 1** | | | | | | | |
| Volume Eluate L2 (litres) | 0.26 | | | | | | |
| Filtered Eluate VE1 (litres) | 0.21 | | | | | | |

Results are expressed on a dry weight basis, after correction for moisture content where applicable.

*= UKAS accredited (liquid eluate analysis only)

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**Analytical Report Number : 21-66970**
**Project / Site name: Brockhampton West Havant**

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

| Lab Sample Number | Sample Reference | Sample Number | Depth (m) | Sample Description * |
|---|---|---|---|---|
| 1827710 | TP102 | Landfill | 1.70-2.00 | Brown loam and clay with gravel. |
| 1827711 | TP103 | Waste | 1.80-2.00 | Brown loam and clay with gravel and glass. |
| 1827712 | TP105 | Waste | 3.00-3.50 | Brown loam and clay with gravel and paper. |
| 1827713 | TP107 | Waste | 1.70-2.30 | Brown clay and sand with gravel. |
| 1827714 | TP108 | Waste | 2.00-2.50 | Brown loam and clay with gravel and vegetation. |
| 1827715 | TP119 | Waste | 1.00-1.50 | Brown loam and clay with rubble and vegetation. |
| 1827716 | TP120 | Waste | 1.50-2.00 | Brown loam and clay with gravel and vegetation. |

**Analytical Report Number : 21-66970**
**Project / Site name: Brockhampton West Havant**

**Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)**

| Analytical Test Name | Analytical Method Description | Analytical Method Reference | Method number | Wet / Dry Analysis | Accreditation Status |
|---|---|---|---|---|---|
| Moisture Content | Moisture content, determined gravimetrically. (30 oC) | In house method. | L019-UK/PL | W | NONE |
| Stones content of soil | Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight. | In-house method based on British Standard Methods and MCERTS requirements. | L019-UK/PL | D | NONE |
| Preparation WAC leachate | | In-house method | L043-PL | W | NONE |
| Speciated WAC-17 PAHs in soil | Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards. | In-house method based on USEPA 8270. MCERTS accredited except Coronene. | L064-PL | D | MCERTS |
| Chloride in WAC leachate (BS EN 12457-3 Prep) | Determination of Chloride colorimetrically by discrete analyser. | In house based on MEWAM Method ISBN 0117516260. | L082-PL | W | ISO 17025 |
| Fluoride in WAC leachate (BS EN 12457-3 Prep) | Determination of fluoride in leachate by 1:1ratio with a buffer solution followed by Ion Selective Electrode. | In-house method based on Standard Methods for the Examination of Water and Waste Water, 21st Ed. | L033-PL | W | ISO 17025 |
| Phenol Index in WAC leachate (BS EN 12457-3 Prep) | Determination of monohydric phenols in leachate by continuous flow analyser. | In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar) | L080-PL | W | ISO 17025 |
| Sulphate in WAC leachate (BS EN 12457-3 Prep) | Determination of sulphate in leachate by acidification followed by ICP-OES. | In-house method based on Standard Methods for the Examination of Water and Waste Water, 21st Ed. | L039-PL | W | ISO 17025 |
| TDS in WAC leachate (BS EN 12457-3 Prep) | Determination of total dissolved solids in leachate by electrometric measurement. | In-house method based on Standard Methods for the Examination of Water and Waste Water, 21st Ed. | L031-PL | W | NONE |
| DOC in WAC leachate (BS EN 12457-3 Prep) | Determination of dissolved organic carbon in leachate by TOC/DOC NDIR analyser. | In-house method based on Standard Methods for the Examination of Water and Waste Water, 21st Ed. | L037-PL | W | NONE |
| Acid neutralisation capacity of soil | Determination of acid neutralisation capacity by addition of acid or alkali followed by electronic probe. | In-house method based on Guidance an Sampling and Testing of Wastes to Meet Landfill Waste Acceptance | L046-PL | W | NONE |
| Loss on ignition of soil @ 450oC | Determination of loss on ignition in soil by gravimetrically with the sample being ignited in a muffle furnace. | In house method. | L047-PL | D | MCERTS |
| Mineral Oil in Soil C10 - C40 | Determination of dichloromethane/hexane extractable hydrocarbons in soil by GC-MS. | In-house method based on USEPA 8270 | L076-PL | D | NONE |
| pH in soil | Determination of pH in soil by addition of water followed by electrometric measurement. | In house method. | L005-PL | W | MCERTS |
| Total organic carbon in soil | Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate. | In house method. | L023-PL | D | MCERTS |
| Metals in WAC leachate (BS EN 12457-3 Prep) | Determination of metals in leachate by acidification followed by ICP-OES. | In-house method based on Standard Methods for the Examination of Water and Waste Water, 21st Ed. | L039-PL | W | ISO 17025 |
| PCB's by GC-MS in soil | Determination of PCB by extraction with acetone and hexane followed by GC-MS. | In-house method based on USEPA 8082 | L027-PL | D | MCERTS |

**Analytical Report Number : 21-66970**
**Project / Site name: Brockhampton West Havant**

**Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)**

| Analytical Test Name | Analytical Method Description | Analytical Method Reference | Method number | Wet / Dry Analysis | Accreditation Status |
|---|---|---|---|---|---|
| BTEX (Sum of BTEX compounds) in soil | Determination of BTEX in soil by headspace GC-MS. Individual components MCERTS accredited | In-house method based on USEPA8260 | L073B-PL | W | MCERTS |

**For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.**
**For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.**
**Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.**

**Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.**

# Sample Deviation Report

**Analytical Report Number : 21-66970**
**Project / Site name: Brockhampton West Havant**

| Sample ID | Other ID | Sample Type | Lab Sample Number | Sample Deviation | Test Name | Test Ref | Test Deviation |
|---|---|---|---|---|---|---|---|
| TP107 | Waste | M | 1827713 | b | BTEX (Sum of BTEX compounds) in soil | L073B-PL | b |
| TP107 | Waste | M | 1827713 | b | BTEX in soil (Monoaromatics) | L073B-PL | b |
| TP107 | Waste | M | 1827713 | b | Mineral Oil in Soil C10 - C40 | L076-PL | b |
| TP107 | Waste | M | 1827713 | b | PCB's by GC-MS in soil | L027-PL | b |
| TP107 | Waste | M | 1827713 | b | Speciated WAC-17 PAHs in soil | L064-PL | b |

# Appendix G – Geotechnical Analysis and Forensic Logging Results

# TEST CERTIFICATE

## Liquid and Plastic Limits

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

4041

Tested in Accordance with: BS 1377-2: 1990: Clause 4.3 and 5

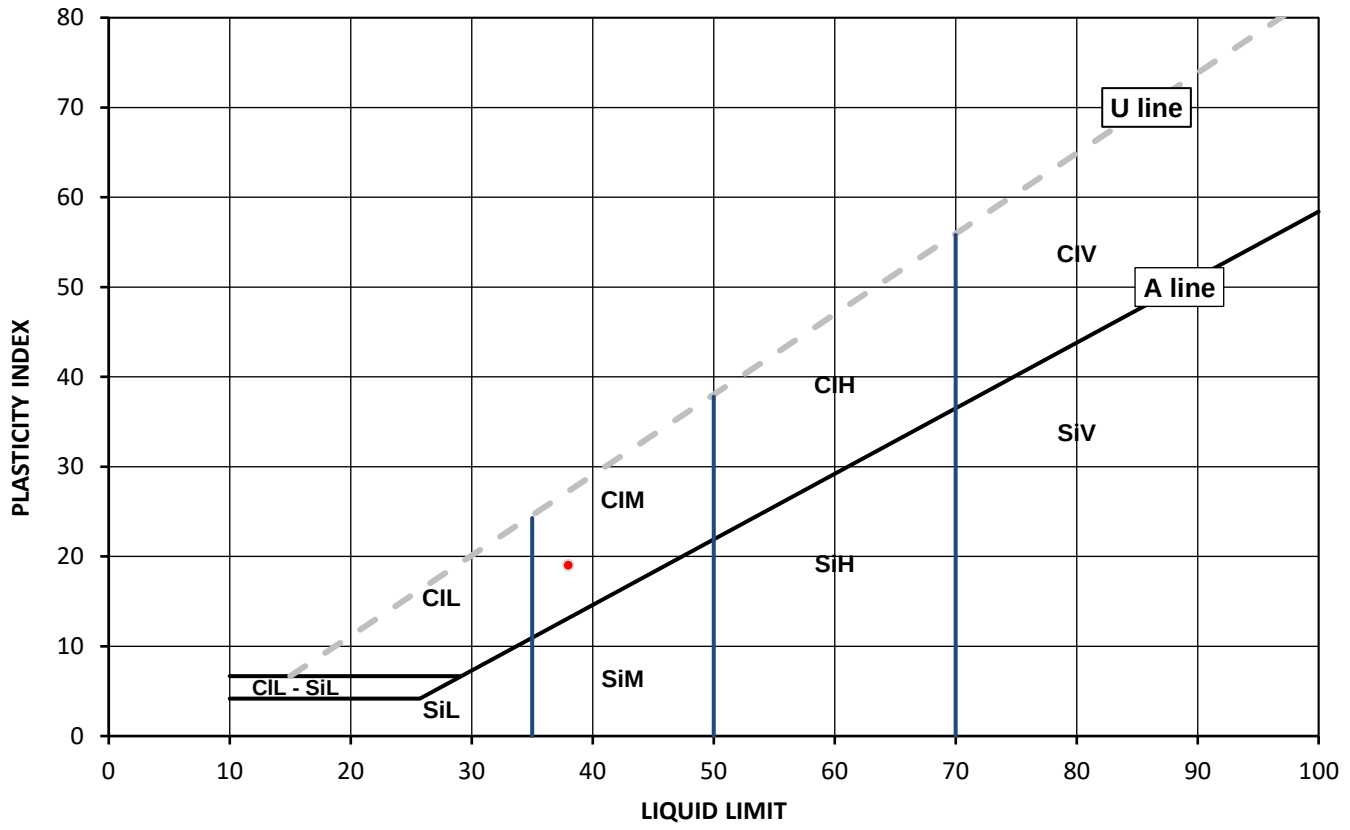
| | | | |
|---|---|---|---|
| Client: | Delta-Simons | Client Reference: | 19-2099.04 |
| Client Address: | Suite C1, Joseph's Well,<br>Hanover Walk, Leeds,<br>LS3 1AB | Job Number: | 21-62530 |
| | | Date Sampled: | 16/02/2021 |
| | | Date Received: | 22/02/2021 |
| Contact: | David Jackson | Date Tested: | 18/03/2021 |
| Site Address: | Brockhampton West, Havant | Sampled By: | Client |

*Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland*

**Test Results:**

| | | | |
|---|---|---|---|
| Laboratory Reference: | 1805290 | Depth Top [m]: | 1.20 |
| Hole No.: | RO108 | Depth Base [m]: | 1.60 |
| Sample Reference: | Not Given | Sample Type: | D |
| Soil Description: | Brown to grey slightly gravelly sandy CLAY | | |
| Sample Preparation: | Tested after >425um removed by hand | | |

| As Received Moisture Content [ W ] % | Liquid Limit [ WL ] % | Plastic Limit [ Wp ] % | Plasticity Index [ Ip ] % | % Passing 425µm BS Test Sieve |
|---|---|---|---|---|
| 25 | 38 | 19 | 19 | 95 |




Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

| | | Plasticity | | Liquid Limit |
|---|---|---|---|---|
| Cl | Clay | L | Low | below 35 |
| Si | Silt | M | Medium | 35 to 50 |
| | | H | High | 50 to 70 |
| | | V | Very high | exceeding 70 |
| | | O | Organic | append to classification for organic material ( eg ClHO ) |

Note: Moisture Content by BS 1377-2: 1990: Clause 3.2

Remarks:

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**Signed:**

Monika Janoszek
PL Deputy Head of Geotechnical Section
**for and on behalf of i2 Analytical Ltd**



**Date Reported:** 22/03/2021

**GF 236.10**

# TEST CERTIFICATE

## Particle Size Distribution

Tested in Accordance with: BS 1377-2: 1990

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

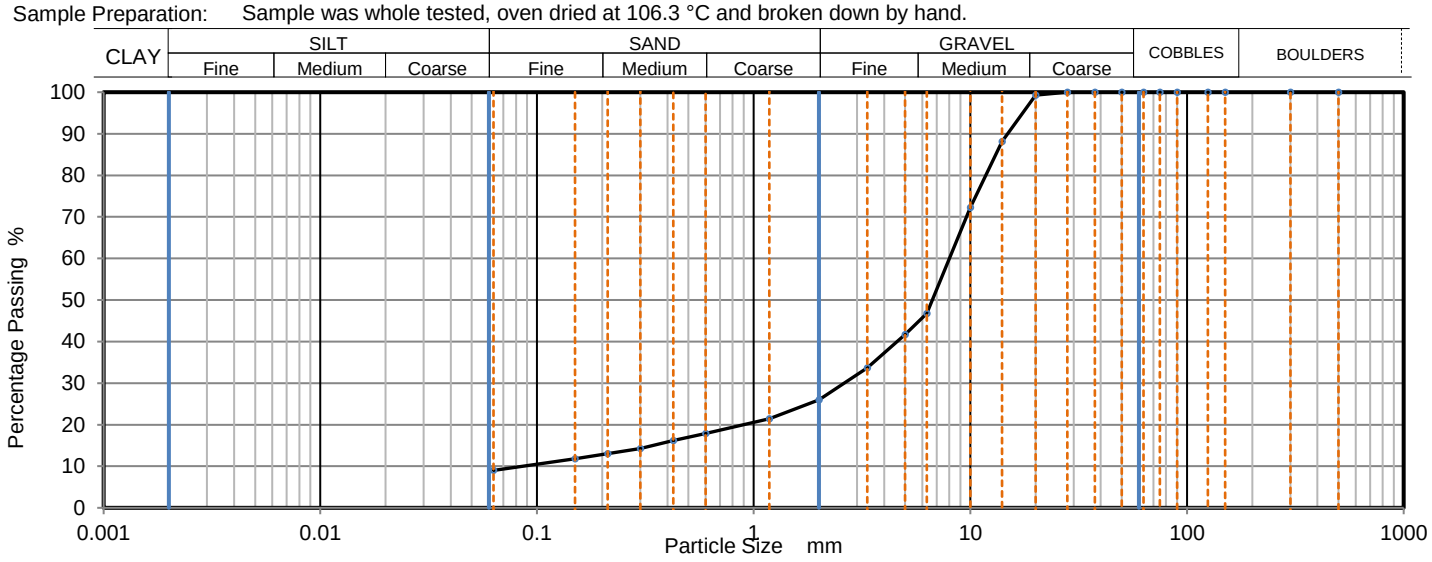
4041

| | | | |
|---|---|---|---|
| Client: | Delta-Simons | Client Reference: | 19-2099.04 |
| Client Address: | Suite C1, Joseph's Well, Hanover Walk, Leeds, LS3 1AB | Job Number: | 21-62530 |
| | | Date Sampled: | 18/02/2021 |
| | | Date Received: | 22/02/2021 |
| Contact: | David Jackson | Date Tested: | 18/03/2021 |
| Site Address: | Brockhampton West, Havant | Sampled By: | Client |

*Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland*

**Test Results:**

| | | | |
|---|---|---|---|
| Laboratory Reference: | 1802471 | Depth Top [m]: | 9.00 |
| Hole No.: | RO102 | Depth Base [m]: | 10.00 |
| Sample Reference: | Not Given | Sample Type: | D |
| Sample Description: | Brown slightly clayey sandy GRAVEL | | |
| Sample Preparation: | Sample was whole tested, oven dried at 106.3 °C and broken down by hand. | | |




| Sieving | | Sedimentation | |
|---|---|---|---|
| Particle Size mm | % Passing | Particle Size mm | % Passing |
| 500 | 100 | | |
| 300 | 100 | | |
| 150 | 100 | | |
| 125 | 100 | | |
| 90 | 100 | | |
| 75 | 100 | | |
| 63 | 100 | | |
| 50 | 100 | | |
| 37.5 | 100 | | |
| 28 | 100 | | |
| 20 | 99 | | |
| 14 | 88 | | |
| 10 | 72 | | |
| 6.3 | 47 | | |
| 5 | 42 | | |
| 3.35 | 34 | | |
| 2 | 26 | | |
| 1.18 | 21 | | |
| 0.6 | 18 | | |
| 0.425 | 16 | | |
| 0.3 | 14 | | |
| 0.212 | 13 | | |
| 0.15 | 12 | | |
| 0.063 | 9 | | |

| Sample Proportions | % dry mass |
|---|---|
| Very coarse | 0 |
| Gravel | 74 |
| Sand | 17 |
| | |
| Fines <0.063mm | 9 |

| Grading Analysis | | |
|---|---|---|
| D100 | mm | 28 |
| D60 | mm | 8 |
| D30 | mm | 2.61 |
| D10 | mm | 0.0801 |
| Uniformity Coefficient | | 100 |
| Curvature Coefficient | | 11 |

Uniformity Coefficient and Coefficient of Curvature calculated in accordance with BS EN ISO 14688-2: 2004 + A1: 2013

Note: Tested in Accordance with BS1377:Part 2:1990, clause 9.2

Remarks:

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**Signed:**

Monika Janoszek
PL Deputy Head of Geotechnical Section
**for and on behalf of i2 Analytical Ltd**



**Date Reported:** 22/03/2021

**GF 100.20**

# TEST CERTIFICATE

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

Environmental Science

## TOC Forensic

Tested in Accordance with: Research Bulletin RB17
November 2012 ISSN 2047-6450

| | | | |
|---|---|---|---|
| Client: | Delta-Simons | Client Reference: | 19 2099 04 |
| Client Address: | Suite C1, Joseph's Well, Hanover Walk, Leeds, LS3 1AB | Job Number: | 21-67106 |
| | | Date Sampled: | 29/03/2021 |
| | | Date Received: | 04/01/2021 |
| Contact: | David Jackson | Date Tested: | 29/04/2021 |
| Site Address: | Brockhampton West Havant | Sampled By: | Not Given |

*Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland*

**Test Results:**

| | | | |
|---|---|---|---|
| Laboratory Reference: | 1828528 | Depth Top [m]: | 2.50 |
| Hole No.: | TP101 | Depth Base [m]: | 3.00 |
| Sample Reference: | Not Given | Sample Type: | B |
| Soil Description: | WASTE MATERIAL | | |

Sample preparation: Sample was dried at 40 °C

| Constituents | Proportion (%) |
|---|---|
| Fine soil including gravel less than 10mm | 60.7 |
| Coarse inert particles including gravel, concrete, brick, etc greater than 10mm | 30.3 |
| Wood, trees, branches, etc | 3.3 |
| Green vegetation, grass, food waste, etc | 0.0 |
| Cloth, leather | 0.0 |
| Metal | 5.0 |
| Glass | 0.3 |
| Ceramics | 0.0 |
| Other inert material | 0.0 |
| Plastic | 0.5 |
| Paper and card | 0.0 |
| Other degradable material | 0.0 |

| | TOC (%) | Limit of detection (%) | Accreditation Status |
|---|---|---|---|
| **Total Organic Carbon*** | **2.5** | 0.1 | MCERTS |

TOC job no 21-66959, sample no 1827660.

Note: *Tested in accordance with In house method L009-PL Determination of organic matter in soil by oxidising with potassium dichromate follwed by titration with iron (II) sulphate.

Remarks: Insufficient material : Not meeting requirements as per Research Bulletin RB17 November 2012 ISSN 2047-6450
Re-issue 1: Additional results for samples 1828531 and 1828533

Opinions and interpretations expressed herein are outside of the scope of the UKAS Accreditation. This report may not be reproduced other than in full without the prior written approval of the issuing laboratory. The results included within the report relate only to the sample(s) submitted for testing.

**Signed:**

Monika Janoszek
PL Deputy Head of Geotechnical Section
**for and on behalf of i2 Analytical Ltd**



**Date Reported:** 20/05/2021

**GF 272.8**

# TEST CERTIFICATE

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

Environmental Science

## TOC Forensic

Tested in Accordance with: Research Bulletin RB17
November 2012 ISSN 2047-6450

| | | | |
|---|---|---|---|
| Client: | Delta-Simons | Client Reference: | 19 2099 04 |
| Client Address: | Suite C1, Joseph's Well, Hanover Walk, Leeds, LS3 1AB | Job Number: | 21-67106 |
| | | Date Sampled: | 29/03/2021 |
| | | Date Received: | 04/01/2021 |
| Contact: | David Jackson | Date Tested: | 29/04/2021 |
| Site Address: | Brockhampton West Havant | Sampled By: | Not Given |

*Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland*

**Test Results:**

| | | | |
|---|---|---|---|
| Laboratory Reference: | 1828529 | Depth Top [m]: | 1.70 |
| Hole No.: | TP102 | Depth Base [m]: | 2.00 |
| Sample Reference: | Not Given | Sample Type: | B |
| Soil Description: | WASTE MATERIAL | | |

Sample preparation: Sample was dried at 40 °C

| Constituents | Proportion (%) |
|---|---|
| Fine soil including gravel less than 10mm | 45.5 |
| Coarse inert particles including gravel, concrete, brick, etc greater than 10mm | 46.0 |
| Wood, trees, branches, etc | 5.9 |
| Green vegetation, grass, food waste, etc | 0.0 |
| Cloth, leather | 0.0 |
| Metal | 0.0 |
| Glass | 1.2 |
| Ceramics | 0.0 |
| Other inert material | 0.0 |
| Plastic | 0.2 |
| Paper and card | 1.2 |
| Other degradable material | 0.0 |

| | TOC (%) | Limit of detection (%) | Accreditation Status |
|---|---|---|---|
| **Total Organic Carbon*** | **3.9** | 0.1 | MCERTS |

TOC job no 21-66959, sample no 1827662.

Note: *Tested in accordance with In house method L009-PL Determination of organic matter in soil by oxidising with potassium dichromate follwed by titration with iron (II) sulphate.

Remarks: Insufficient material : Not meeting requirements as per Research Bulletin RB17 November 2012 ISSN 2047-6450
Re-issue 1: Additional results for samples 1828531 and 1828533

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**Signed:**

Monika Janoszek
PL Deputy Head of Geotechnical Section
**for and on behalf of i2 Analytical Ltd**



**Date Reported:** 20/05/2021

**GF 272.8**

# TEST CERTIFICATE

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

## TOC Forensic

Tested in Accordance with: Research Bulletin RB17
November 2012 ISSN 2047-6450

| | | | |
|---|---|---|---|
| Client: | Delta-Simons | Client Reference: | 19 2099 04 |
| Client Address: | Suite C1, Joseph's Well, Hanover Walk, Leeds, LS3 1AB | Job Number: | 21-67106 |
| | | Date Sampled: | 29/03/2021 |
| | | Date Received: | 04/01/2021 |
| Contact: | David Jackson | Date Tested: | 29/04/2021 |
| Site Address: | Brockhampton West Havant | Sampled By: | Not Given |

*Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland*

**Test Results:**

| | | | |
|---|---|---|---|
| Laboratory Reference: | 1828530 | Depth Top [m]: | 3.00 |
| Hole No.: | TP106 | Depth Base [m]: | 3.50 |
| Sample Reference: | Not Given | Sample Type: | B |
| Soil Description: | WASTE MATERIAL | | |

Sample preparation: Sample was dried at 40 °C

| Constituents | Proportion (%) |
|---|---|
| Fine soil including gravel less than 10mm | 37.2 |
| Coarse inert particles including gravel, concrete, brick, etc greater than 10mm | 26.0 |
| Wood, trees, branches, etc | 1.8 |
| Green vegetation, grass, food waste, etc | 0.0 |
| Cloth, leather | 0.0 |
| Metal | 23.4 |
| Glass | 5.8 |
| Ceramics | 0.0 |
| Other inert material | 0.0 |
| Plastic | 5.6 |
| Paper and card | 0.3 |
| Other degradable material | 0.0 |

| | TOC (%) | Limit of detection (%) | Accreditation Status |
|---|---|---|---|
| **Total Organic Carbon*** | **4.0** | 0.1 | MCERTS |

TOC job no 21-66959, sample no 1827668.

Note: *Tested in accordance with In house method L009-PL Determination of organic matter in soil by oxidising with potassium dichromate follwed by titration with iron (II) sulphate.

Remarks: Insufficient material : Not meeting requirements as per Research Bulletin RB17 November 2012 ISSN 2047-6450
Re-issue 1: Additional results for samples 1828531 and 1828533

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**Signed:**

Monika Janoszek
PL Deputy Head of Geotechnical Section
**for and on behalf of i2 Analytical Ltd**



**Date Reported:** 20/05/2021

**GF 272.8**

# TEST CERTIFICATE

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

Environmental Science

## TOC Forensic

Tested in Accordance with: Research Bulletin RB17
November 2012 ISSN 2047-6450

| | | | |
|---|---|---|---|
| Client: | Delta-Simons | Client Reference: | 19 2099 04 |
| Client Address: | Suite C1, Joseph's Well, Hanover Walk, Leeds, LS3 1AB | Job Number: | 21-67106 |
| | | Date Sampled: | 31/03/2021 |
| | | Date Received: | 04/01/2021 |
| Contact: | David Jackson | Date Tested: | 29/04/2021 |
| Site Address: | Brockhampton West Havant | Sampled By: | Not Given |

*Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland*

**Test Results:**

| | | | |
|---|---|---|---|
| Laboratory Reference: | 1828531 | Depth Top [m]: | 3.50 |
| Hole No.: | TP107 | Depth Base [m]: | 3.70 |
| Sample Reference: | Not Given | Sample Type: | B |
| Soil Description: | WASTE MATERIAL | | |

Sample preparation: Sample was dried at 40 °C

| Constituents | Proportion (%) |
|---|---|
| Fine soil including gravel less than 10mm | 98.6 |
| Coarse inert particles including gravel, concrete, brick, etc greater than 10mm | 1.4 |
| Wood, trees, branches, etc | 0.0 |
| Green vegetation, grass, food waste, etc | 0.0 |
| Cloth, leather | 0.0 |
| Metal | 0.0 |
| Glass | 0.0 |
| Ceramics | 0.0 |
| Other inert material | 0.0 |
| Plastic | 0.0 |
| Paper and card | 0.0 |
| Other degradable material | 0.0 |

| | TOC (%) | Limit of detection (%) | Accreditation Status |
|---|---|---|---|
| **Total Organic Carbon*** | **0.8** | 0.1 | MCERTS |

TOC job no 21-66959, sample no 1827669.

Note: *Tested in accordance with In house method L009-PL Determination of organic matter in soil by oxidising with potassium dichromate follwed by titration with iron (II) sulphate.

Remarks: Insufficient material : Not meeting requirements as per Research Bulletin RB17 November 2012 ISSN 2047-6450
Re-issue 1: Additional results for samples 1828531 and 1828533

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**Signed:**

Monika Janoszek
PL Deputy Head of Geotechnical Section
**for and on behalf of i2 Analytical Ltd**



**Date Reported:** 20/05/2021

**GF 272.8**

# TEST CERTIFICATE

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

Environmental Science

## TOC Forensic

Tested in Accordance with: Research Bulletin RB17
November 2012 ISSN 2047-6450

| | | | |
|---|---|---|---|
| Client: | Delta-Simons | Client Reference: | 19 2099 04 |
| Client Address: | Suite C1, Joseph's Well, Hanover Walk, Leeds, LS3 1AB | Job Number: | 21-67106 |
| | | Date Sampled: | 30/03/2021 |
| | | Date Received: | 04/01/2021 |
| Contact: | David Jackson | Date Tested: | 29/04/2021 |
| Site Address: | Brockhampton West Havant | Sampled By: | Not Given |

*Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland*

**Test Results:**

| | | | |
|---|---|---|---|
| Laboratory Reference: | 1828532 | Depth Top [m]: | 2.00 |
| Hole No.: | TP111 | Depth Base [m]: | 2.50 |
| Sample Reference: | Not Given | Sample Type: | B |
| Soil Description: | WASTE MATERIAL | | |

Sample preparation: Sample was dried at 40 °C

| Constituents | Proportion (%) |
|---|---|
| Fine soil including gravel less than 10mm | 70.7 |
| Coarse inert particles including gravel, concrete, brick, etc greater than 10mm | 10.4 |
| Wood, trees, branches, etc | 1.3 |
| Green vegetation, grass, food waste, etc | 0.0 |
| Cloth, leather | 6.9 |
| Metal | 6.0 |
| Glass | 0.9 |
| Ceramics | 0.0 |
| Other inert material | 0.0 |
| Plastic | 3.7 |
| Paper and card | 0.0 |
| Other degradable material | 0.0 |

| | TOC (%) | Limit of detection (%) | Accreditation Status |
|---|---|---|---|
| **Total Organic Carbon*** | **1.8** | 0.1 | MCERTS |

TOC job no 21-66959, sample no 1827675.

Note: *Tested in accordance with In house method L009-PL Determination of organic matter in soil by oxidising with potassium dichromate follwed by titration with iron (II) sulphate.

Remarks: Insufficient material : Not meeting requirements as per Research Bulletin RB17 November 2012 ISSN 2047-6450
Re-issue 1: Additional results for samples 1828531 and 1828533

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**Signed:**

Monika Janoszek
PL Deputy Head of Geotechnical Section
**for and on behalf of i2 Analytical Ltd**



**Date Reported:** 20/05/2021

**GF 272.8**

# TEST CERTIFICATE

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

## TOC Forensic

Tested in Accordance with: Research Bulletin RB17
November 2012 ISSN 2047-6450

| | | | |
|---|---|---|---|
| Client: | Delta-Simons | Client Reference: | 19 2099 04 |
| Client Address: | Suite C1, Joseph's Well, Hanover Walk, Leeds, LS3 1AB | Job Number: | 21-67106 |
| | | Date Sampled: | 30/03/2021 |
| | | Date Received: | 04/01/2021 |
| Contact: | David Jackson | Date Tested: | 29/04/2021 |
| Site Address: | Brockhampton West Havant | Sampled By: | Not Given |

*Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland*

**Test Results:**

| | | | |
|---|---|---|---|
| Laboratory Reference: | 1828533 | Depth Top [m]: | 1.00 |
| Hole No.: | TP114 | Depth Base [m]: | 1.50 |
| Sample Reference: | Not Given | Sample Type: | B |
| Soil Description: | WASTE MATERIAL | | |

Sample preparation: Sample was dried at 40 °C

| Constituents | Proportion (%) |
|---|---|
| Fine soil including gravel less than 10mm | 54.5 |
| Coarse inert particles including gravel, concrete, brick, etc greater than 10mm | 27.0 |
| Wood, trees, branches, etc | 4.6 |
| Green vegetation, grass, food waste, etc | 0.0 |
| Cloth, leather | 4.3 |
| Metal | 3.3 |
| Glass | 1.8 |
| Ceramics | 0.8 |
| Other inert material | 0.0 |
| Plastic | 2.1 |
| Paper and card | 1.6 |
| Other degradable material | 0.0 |

| | TOC (%) | Limit of detection (%) | Accreditation Status |
|---|---|---|---|
| **Total Organic Carbon*** | **5.5** | 0.1 | MCERTS |

TOC job no 21-66959, sample no 1827678.

Note: *Tested in accordance with In house method L009-PL Determination of organic matter in soil by oxidising with potassium dichromate follwed by titration with iron (II) sulphate.

Remarks: Insufficient material : Not meeting requirements as per Research Bulletin RB17 November 2012 ISSN 2047-6450
Re-issue 1: Additional results for samples 1828531 and 1828533

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**Signed:**

Monika Janoszek
PL Deputy Head of Geotechnical Section
**for and on behalf of i2 Analytical Ltd**



**Date Reported:** 20/05/2021

**GF 272.8**

# TEST CERTIFICATE

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

## TOC Forensic

Tested in Accordance with: Research Bulletin RB17
November 2012 ISSN 2047-6450

| | | | |
|---|---|---|---|
| Client: | Delta-Simons | Client Reference: | 19 2099 04 |
| Client Address: | Suite C1, Joseph's Well, Hanover Walk, Leeds, LS3 1AB | Job Number: | 21-67106 |
| | | Date Sampled: | 31/03/2021 |
| | | Date Received: | 04/01/2021 |
| Contact: | David Jackson | Date Tested: | 29/04/2021 |
| Site Address: | Brockhampton West Havant | Sampled By: | Not Given |

*Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland*

**Test Results:**

| | | | |
|---|---|---|---|
| Laboratory Reference: | 1828534 | Depth Top [m]: | 2.00 |
| Hole No.: | TP117 | Depth Base [m]: | 2.50 |
| Sample Reference: | Not Given | Sample Type: | B |
| Soil Description: | WASTE MATERIAL | | |

Sample preparation: Sample was dried at 40 °C

| Constituents | Proportion (%) |
|---|---|
| Fine soil including gravel less than 10mm | 74.1 |
| Coarse inert particles including gravel, concrete, brick, etc greater than 10mm | 15.9 |
| Wood, trees, branches, etc | 3.0 |
| Green vegetation, grass, food waste, etc | 0.0 |
| Cloth, leather | 0.0 |
| Metal | 0.7 |
| Glass | 1.5 |
| Ceramics | 0.4 |
| Other inert material | 0.0 |
| Plastic | 3.6 |
| Paper and card | 0.7 |
| Other degradable material | 0.0 |

| | TOC (%) | Limit of detection (%) | Accreditation Status |
|---|---|---|---|
| **Total Organic Carbon*** | **1.9** | 0.1 | MCERTS |

TOC job no 21-66959, sample no 1827683.

Note: *Tested in accordance with In house method L009-PL Determination of organic matter in soil by oxidising with potassium dichromate follwed by titration with iron (II) sulphate.

Remarks: Insufficient material : Not meeting requirements as per Research Bulletin RB17 November 2012 ISSN 2047-6450
Re-issue 1: Additional results for samples 1828531 and 1828533

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**Signed:**

Monika Janoszek
PL Deputy Head of Geotechnical Section
**for and on behalf of i2 Analytical Ltd**



**Date Reported:** 20/05/2021

**GF 272.8**

# SUMMARY REPORT

## Summary of Moisture Content Test Results

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

UKAS TESTING 4041

Tested in Accordance with: BS 1377-2: 1990: Clause 3.2

Client: Delta-Simons

Client Address: Suite C1, Joseph's Well,□
Hanover Walk, Leeds,□
LS3 1AB

Contact: David Jackson

Site Address: Brockhampton West, Havant

Client Reference: 19-2099.04
Job Number: 21-68356
Date Sampled: 29/03 - 31/03/2021
Date Received: 14/04/2021
Date Tested: 26/04/2021
Sampled By: Client

*Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland*

### Test results

| Laboratory Reference | Hole No. | Sample | | | | Description | Remarks | MC | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Reference | Depth Top m | Depth Base m | Type | | | % | | | | | | | | | | | |
| 1835070 | TP101 | Not Given | 1.00 | 1.50 | B | Greyish brown gravelly sandy very clayey SILT | | 21 | | | | | | | | | | | |
| 1835071 | TP102 | Not Given | 0.30 | 0.50 | B | Brown very clayey sandy slightly gravelly SILT | | 26 | | | | | | | | | | | |
| 1835072 | TP102 | Not Given | 0.70 | 0.90 | B | White slightly gravelly SILT | | 17 | | | | | | | | | | | |
| 1835073 | TP103 | Not Given | 0.50 | 1.00 | B | White gravelly SILT | | 19 | | | | | | | | | | | |
| 1835074 | TP103 | Not Given | 1.50 | 1.80 | B | Greyish brown gravelly sandy CLAY | | 25 | | | | | | | | | | | |
| 1835076 | TP105 | Not Given | 0.70 | 1.00 | B | Brown gravelly very sandy very silty CLAY | | 25 | | | | | | | | | | | |
| 1835078 | TP106 | Not Given | 0.10 | 0.30 | B | Greyish brown clayey sandy GRAVEL | | 15 | | | | | | | | | | | |
| 1835079 | TP106 | Not Given | 0.50 | 0.70 | B | Greyish brown clayey sandy GRAVEL | | 18 | | | | | | | | | | | |
| 1835080 | TP107 | Not Given | 0.50 | 1.00 | B | Mottled brown slightly gravelly CLAY | | 24 | | | | | | | | | | | |
| 1835081 | TP108 | Not Given | 0.50 | 1.00 | B | Greyish brown very gravelly very sandy CLAY and SILT | | 19 | | | | | | | | | | | |

Comments: Re-issue 1: Additional results of PSD and Compaction 2.5 kg (sample 1835079)

Signed:

Monika Janoszek
PL Deputy Head of Geotechnical Section
**for and on behalf of i2 Analytical Ltd**

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**Date Reported:** 04/06/2021

**GF 099.15**

# SUMMARY REPORT

## Summary of Moisture Content Test Results

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

UKAS TESTING 4041

Tested in Accordance with: BS 1377-2: 1990: Clause 3.2

Client: Delta-Simons

Client Address: Suite C1, Joseph's Well,
Hanover Walk, Leeds,
LS3 1AB

Contact: David Jackson

Site Address: Brockhampton West, Havant

Client Reference: 19-2099.04
Job Number: 21-68356
Date Sampled: 30/03 - 01/04/2021
Date Received: 14/04/2021
Date Tested: 26/04/2021
Sampled By: Client

*Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland*

### Test results

| Laboratory Reference | Hole No. | Sample | | | | Description | Remarks | MC | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Reference | Depth Top m | Depth Base m | Type | | | % | | | | | | | | | | | |
| 1835085 | TP110 | Not Given | 2.80 | 3.20 | B | Brown slightly gravelly very clayey SILT and SAND | | 28 | | | | | | | | | | | |
| 1835086 | TP111 | Not Given | 0.50 | 1.00 | B | Brown gravelly very sandy very clayey SILT | | 26 | | | | | | | | | | | |
| 1835087 | TP111 | Not Given | 3.80 | 4.00 | B | Brown slightly sandy very clayey SILT | | 15 | | | | | | | | | | | |
| 1835088 | TP112 | Not Given | 0.90 | 1.20 | B | Mottled brown clayey very gravelly very sandy SILT | | 18 | | | | | | | | | | | |
| 1835090 | TP114 | Not Given | 0.40 | 0.70 | B | Brown slightly gravelly clayey very sandy SILT | | 24 | | | | | | | | | | | |
| 1835092 | TP115 | Not Given | 1.00 | 1.50 | B | Greyish brown sandy clayey SILT | | 19 | | | | | | | | | | | |
| 1835062 | TP116 | Not Given | 0.40 | 0.90 | B | Brown very gravelly very sandy very clayey SILT with fragments of bricks | | 28 | | | | | | | | | | | |
| 1835063 | TP116 | Not Given | 1.00 | 1.50 | B | Brown gravelly sandy clayey SILT | | 26 | | | | | | | | | | | |
| 1835067 | TP119 | Not Given | 0.30 | 0.70 | B | Greyish brown very gravelly very sandy ery clayey SILT with fragments of chalk | | 22 | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |

Comments: Re-issue 1: Additional results of PSD and Compaction 2.5 kg (sample 1835079)

Signed:

Monika Janoszek
PL Deputy Head of Geotechnical Section
**for and on behalf of i2 Analytical Ltd**

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**Date Reported:** 04/06/2021

**GF 099.15**

# TEST CERTIFICATE

## Particle Size Distribution

Tested in Accordance with: BS 1377-2: 1990

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

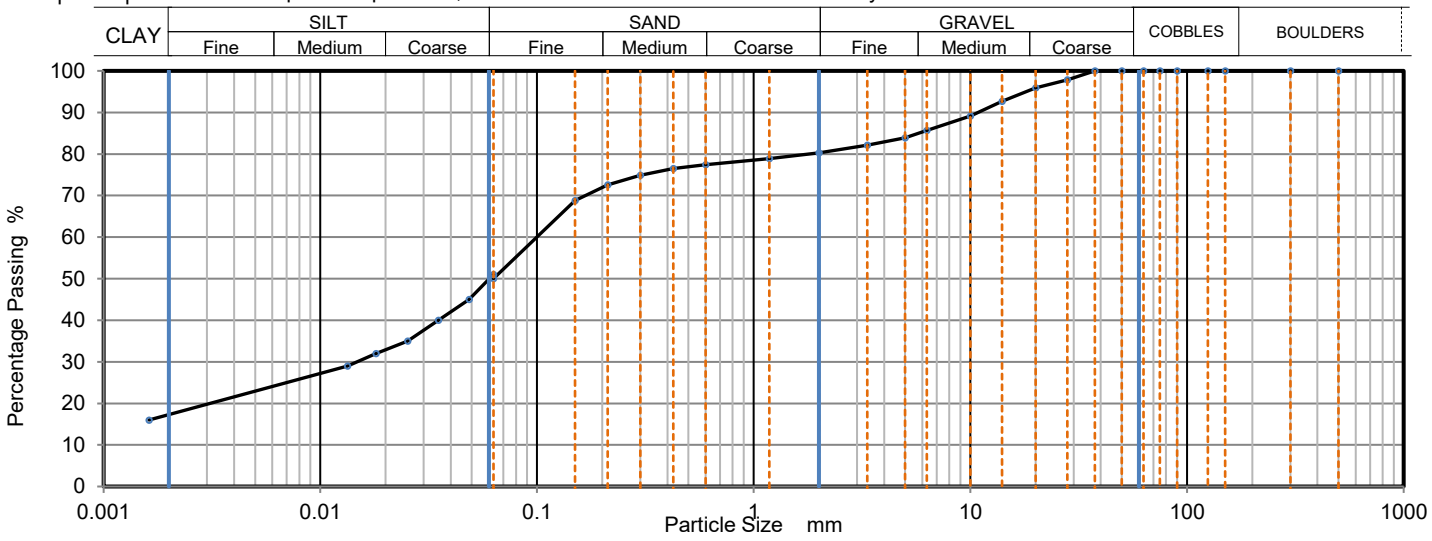
4041

| | | | |
|---|---|---|---|
| Client: | Delta-Simons | Client Reference: | 19-2099.04 |
| Client Address: | Suite C1, Joseph's Well,<br>Hanover Walk, Leeds,<br>LS3 1AB | Job Number: | 21-68356 |
| | | Date Sampled: | 30/03/2021 |
| | | Date Received: | 14/04/2021 |
| Contact: | David Jackson | Date Tested: | 26/04/2021 |
| Site Address: | Brockhampton West, Havant | Sampled By: | Client |

*Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland*

**Test Results:**

| | | | |
|---|---|---|---|
| Laboratory Reference: | 1835062 | Depth Top [m]: | 0.40 |
| Hole No.: | TP116 | Depth Base [m]: | 0.90 |
| Sample Reference: | Not Given | Sample Type: | B |
| Sample Description: | Brown very gravelly very sandy very clayey SILT with fragments of bricks | | |
| Sample Preparation: | Sample was quartered, oven dried at 106.1 °C and broken down by hand. | | |




| Sieving | | Sedimentation | |
|---|---|---|---|
| Particle Size mm | % Passing | Particle Size mm | % Passing |
| 500 | 100 | 0.0630 | 51 |
| 300 | 100 | 0.0486 | 45 |
| 150 | 100 | 0.0350 | 40 |
| 125 | 100 | 0.0252 | 35 |
| 90 | 100 | 0.0181 | 32 |
| 75 | 100 | 0.0134 | 29 |
| 63 | 100 | 0.0016 | 16 |
| 50 | 100 | | |
| 37.5 | 100 | | |
| 28 | 98 | | |
| 20 | 96 | | |
| 14 | 93 | | |
| 10 | 89 | | |
| 6.3 | 86 | | |
| 5 | 84 | | |
| 3.35 | 82 | Particle density | (assumed) |
| 2 | 80 | 2.65 | Mg/m3 |
| 1.18 | 79 | | |
| 0.6 | 77 | | |
| 0.425 | 77 | | |
| 0.3 | 75 | | |
| 0.212 | 73 | | |
| 0.15 | 69 | | |
| 0.063 | 51 | | |

| Sample Proportions | % dry mass |
|---|---|
| Very coarse | 0 |
| Gravel | 20 |
| Sand | 29 |
| Silt | 34 |
| Clay | 17 |

| Grading Analysis | | |
|---|---|---|
| D100 | mm | 37.5 |
| D60 | mm | 0.0979 |
| D30 | mm | 0.0152 |
| D10 | mm | |
| Uniformity Coefficient | | > 60 |
| Curvature Coefficient | | |

Uniformity Coefficient and Coefficient of Curvature calculated in accordance with BS EN ISO 14688-2: 2004 + A1: 2013

Note: Tested in Accordance with BS1377:Part 2:1990, clauses 9.2 and 9.5

Remarks: Re-issue 1: Additional results of PSD and Compaction 2.5 kg (sample 1835079)

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**Signed:**

Monika Janoszek
PL Deputy Head of Geotechnical Section
**for and on behalf of i2 Analytical Ltd**



**Date Reported:** 04/06/2021

**GF 100.20**

# TEST CERTIFICATE

## Particle Size Distribution

Tested in Accordance with: BS 1377-2: 1990

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

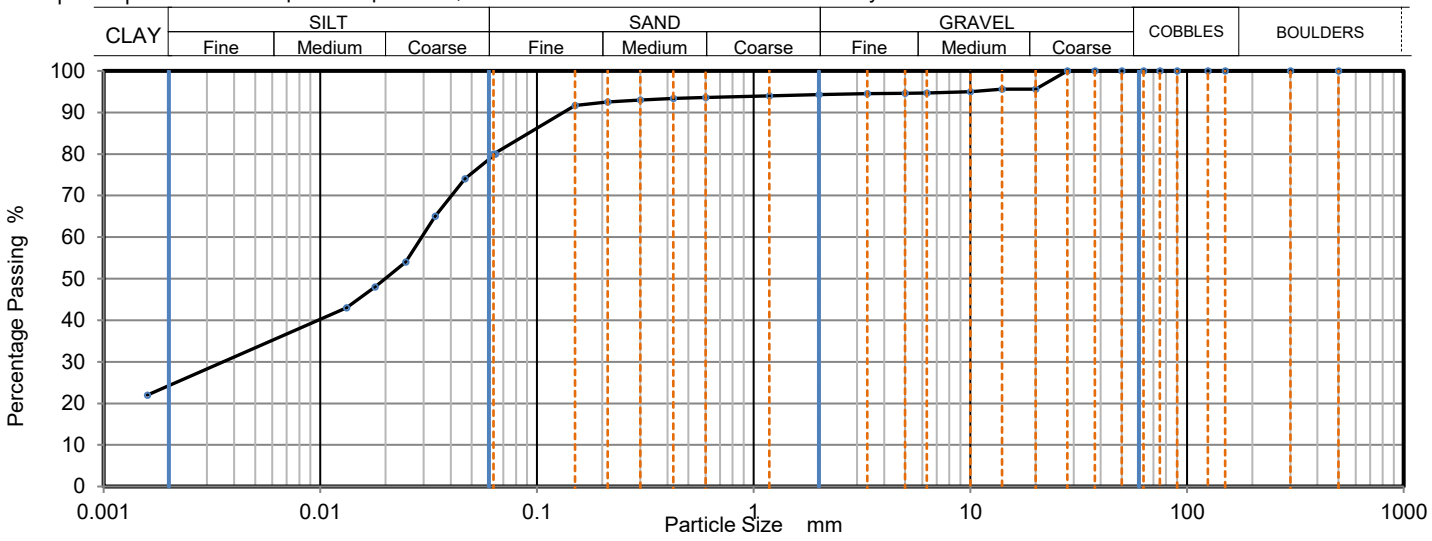
4041

| | | | |
|---|---|---|---|
| Client: | Delta-Simons | Client Reference: | 19-2099.04 |
| Client Address: | Suite C1, Joseph's Well,<br>Hanover Walk, Leeds,<br>LS3 1AB | Job Number: | 21-68356 |
| | | Date Sampled: | 30/03/2021 |
| | | Date Received: | 14/04/2021 |
| Contact: | David Jackson | Date Tested: | 26/04/2021 |
| Site Address: | Brockhampton West, Havant | Sampled By: | Client |

*Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland*

**Test Results:**

| | | | |
|---|---|---|---|
| Laboratory Reference: | 1835063 | Depth Top [m]: | 1.00 |
| Hole No.: | TP116 | Depth Base [m]: | 1.50 |
| Sample Reference: | Not Given | Sample Type: | B |
| Sample Description: | Brown gravelly sandy clayey SILT | | |
| Sample Preparation: | Sample was quartered, oven dried at 106.1 °C and broken down by hand. | | |




| Sieving | | Sedimentation | |
|---|---|---|---|
| Particle Size mm | % Passing | Particle Size mm | % Passing |
| 500 | 100 | 0.0643 | 80 |
| 300 | 100 | 0.0465 | 74 |
| 150 | 100 | 0.0339 | 65 |
| 125 | 100 | 0.0248 | 54 |
| 90 | 100 | 0.0179 | 48 |
| 75 | 100 | 0.0132 | 43 |
| 63 | 100 | 0.0016 | 22 |
| 50 | 100 | | |
| 37.5 | 100 | | |
| 28 | 100 | | |
| 20 | 96 | | |
| 14 | 96 | | |
| 10 | 95 | | |
| 6.3 | 95 | | |
| 5 | 95 | | |
| 3.35 | 95 | Particle density | (assumed) |
| 2 | 94 | 2.65 | Mg/m3 |
| 1.18 | 94 | | |
| 0.6 | 94 | | |
| 0.425 | 93 | | |
| 0.3 | 93 | | |
| 0.212 | 93 | | |
| 0.15 | 92 | | |
| 0.063 | 80 | | |

| Sample Proportions | % dry mass |
|---|---|
| Very coarse | 0 |
| Gravel | 6 |
| Sand | 14 |
| Silt | 56 |
| Clay | 24 |

| Grading Analysis | | |
|---|---|---|
| D100 | mm | 28 |
| D60 | mm | 0.0294 |
| D30 | mm | 0.00361 |
| D10 | mm | |
| Uniformity Coefficient | | > 18 |
| Curvature Coefficient | | |

Uniformity Coefficient and Coefficient of Curvature calculated in accordance with BS EN ISO 14688-2: 2004 + A1: 2013

Note: Tested in Accordance with BS1377:Part 2:1990, clauses 9.2 and 9.5

Remarks: Re-issue 1: Additional results of PSD and Compaction 2.5 kg (sample 1835079)

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**Signed:**

Monika Janoszek
PL Deputy Head of Geotechnical Section
**for and on behalf of i2 Analytical Ltd**



**Date Reported:** 04/06/2021

**GF 100.20**

# TEST CERTIFICATE

## Particle Size Distribution

Tested in Accordance with: BS 1377-2: 1990

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

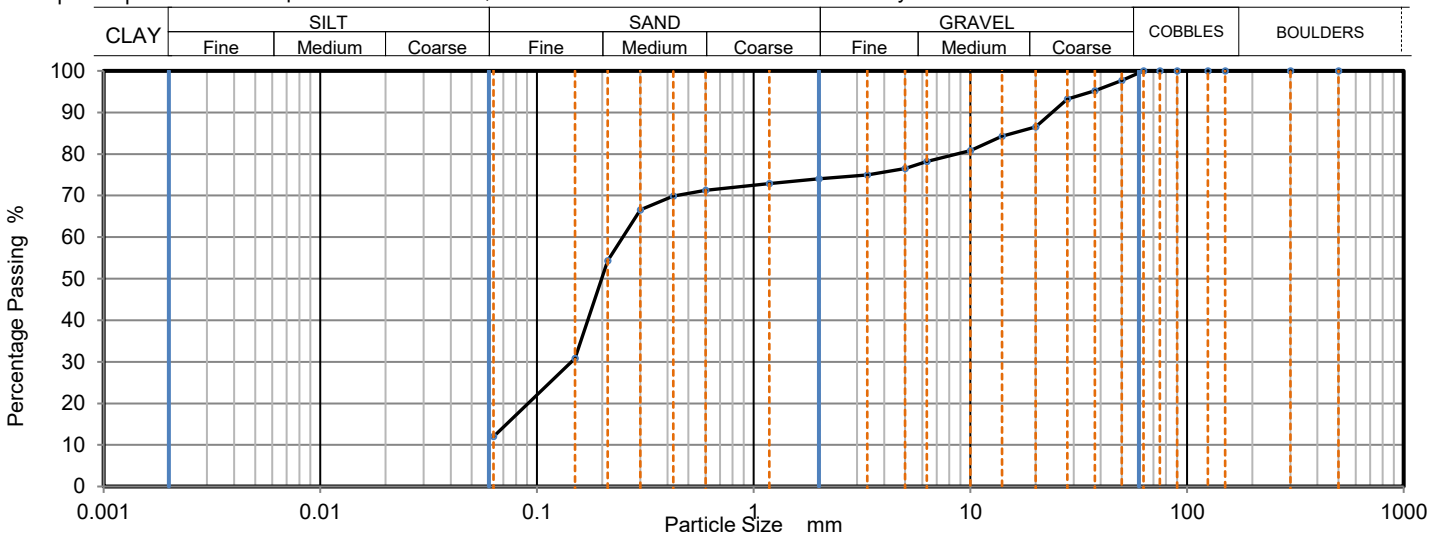
4041

| | | | |
|---|---|---|---|
| Client: | Delta-Simons | Client Reference: | 19-2099.04 |
| Client Address: | Suite C1, Joseph's Well,<br>Hanover Walk, Leeds,<br>LS3 1AB | Job Number: | 21-68356 |
| | | Date Sampled: | 31/03/2021 |
| | | Date Received: | 14/04/2021 |
| Contact: | David Jackson | Date Tested: | 26/04/2021 |
| Site Address: | Brockhampton West, Havant | Sampled By: | Client |

*Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland*

**Test Results:**

| | | | |
|---|---|---|---|
| Laboratory Reference: | 1835064 | Depth Top [m]: | 0.30 |
| Hole No.: | TP117 | Depth Base [m]: | 0.50 |
| Sample Reference: | Not Given | Sample Type: | B |
| Sample Description: | Yellowish brown clayey gravelly SAND | | |
| Sample Preparation: | Sample was whole tested, oven dried at 106.0 °C and broken down by hand. | | |




| Sieving | | Sedimentation | |
|---|---|---|---|
| Particle Size mm | % Passing | Particle Size mm | % Passing |
| 500 | 100 | | |
| 300 | 100 | | |
| 150 | 100 | | |
| 125 | 100 | | |
| 90 | 100 | | |
| 75 | 100 | | |
| 63 | 100 | | |
| 50 | 98 | | |
| 37.5 | 95 | | |
| 28 | 93 | | |
| 20 | 87 | | |
| 14 | 84 | | |
| 10 | 81 | | |
| 6.3 | 78 | | |
| 5 | 77 | | |
| 3.35 | 75 | | |
| 2 | 74 | | |
| 1.18 | 73 | | |
| 0.6 | 71 | | |
| 0.425 | 70 | | |
| 0.3 | 67 | | |
| 0.212 | 54 | | |
| 0.15 | 31 | | |
| 0.063 | 13 | | |

| Sample Proportions | % dry mass |
|---|---|
| Very coarse | 0 |
| Gravel | 26 |
| Sand | 61 |
| | |
| Fines <0.063mm | 13 |

| Grading Analysis | | |
|---|---|---|
| D100 | mm | 63 |
| D60 | mm | 0.249 |
| D30 | mm | 0.144 |
| D10 | mm | |
| Uniformity Coefficient | | > 4 |
| Curvature Coefficient | | |

Uniformity Coefficient and Coefficient of Curvature calculated in accordance with BS EN ISO 14688-2: 2004 + A1: 2013

Note: Tested in Accordance with BS1377:Part 2:1990, clause 9.2

Remarks: Re-issue 1: Additional results of PSD and Compaction 2.5 kg (sample 1835079)

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**Signed:**

Monika Janoszek
PL Deputy Head of Geotechnical Section
**for and on behalf of i2 Analytical Ltd**



**Date Reported:** 04/06/2021

**GF 100.20**

# TEST CERTIFICATE

## Particle Size Distribution

Tested in Accordance with: BS 1377-2: 1990

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

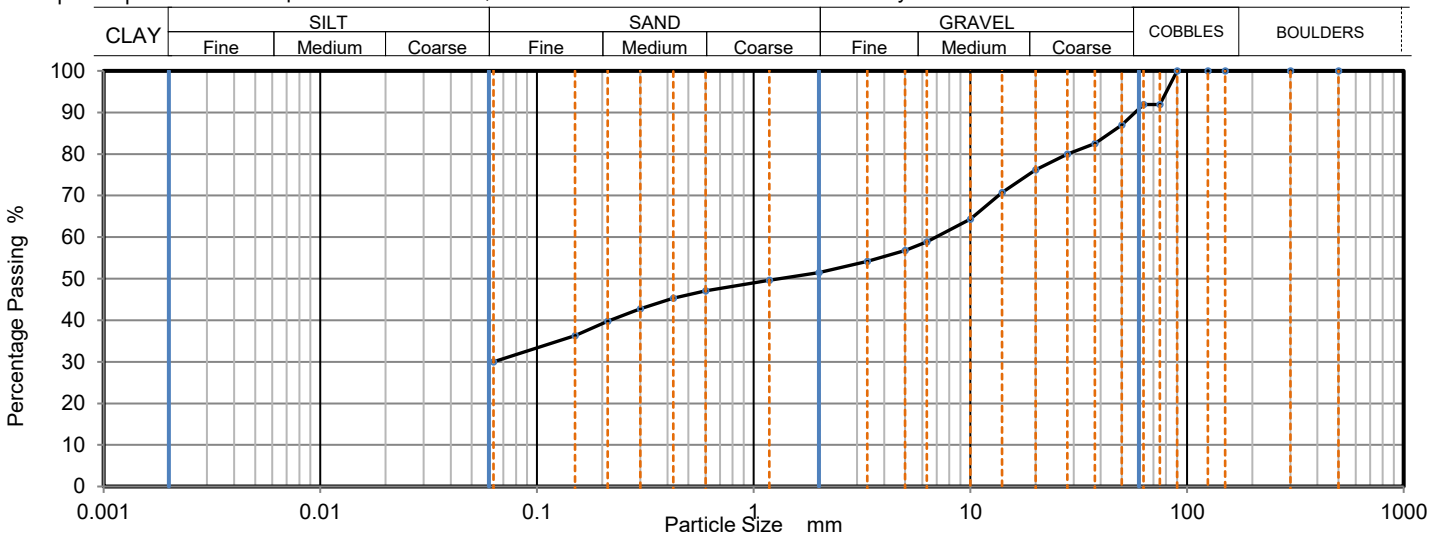
4041

| | | | |
|---|---|---|---|
| Client: | Delta-Simons | Client Reference: | 19-2099.04 |
| Client Address: | Suite C1, Joseph's Well,<br>Hanover Walk, Leeds,<br>LS3 1AB | Job Number: | 21-68356 |
| | | Date Sampled: | 31/03/2021 |
| | | Date Received: | 14/04/2021 |
| Contact: | David Jackson | Date Tested: | 26/04/2021 |
| Site Address: | Brockhampton West, Havant | Sampled By: | Client |

*Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland*

**Test Results:**

| | | | |
|---|---|---|---|
| Laboratory Reference: | 1835065 | Depth Top [m]: | 0.70 |
| Hole No.: | TP117 | Depth Base [m]: | 1.00 |
| Sample Reference: | Not Given | Sample Type: | B |
| Sample Description: | Brown very sandy very clayey GRAVEL with fragments of brick, glass, concrete | | |
| Sample Preparation: | Sample was whole tested, oven dried at 106.0 °C and broken down by hand. | | |




| Sieving | | Sedimentation | |
|---|---|---|---|
| Particle Size mm | % Passing | Particle Size mm | % Passing |
| 500 | 100 | | |
| 300 | 100 | | |
| 150 | 100 | | |
| 125 | 100 | | |
| 90 | 100 | | |
| 75 | 92 | | |
| 63 | 92 | | |
| 50 | 87 | | |
| 37.5 | 83 | | |
| 28 | 80 | | |
| 20 | 76 | | |
| 14 | 71 | | |
| 10 | 64 | | |
| 6.3 | 59 | | |
| 5 | 57 | | |
| 3.35 | 54 | | |
| 2 | 52 | | |
| 1.18 | 50 | | |
| 0.6 | 47 | | |
| 0.425 | 45 | | |
| 0.3 | 43 | | |
| 0.212 | 40 | | |
| 0.15 | 36 | | |
| 0.063 | 31 | | |

| Sample Proportions | % dry mass |
|---|---|
| Very coarse | 8 |
| Gravel | 40 |
| Sand | 21 |
| | |
| Fines <0.063mm | 31 |

| Grading Analysis | | |
|---|---|---|
| D100 | mm | 90 |
| D60 | mm | 6.91 |
| D30 | mm | |
| D10 | mm | |
| Uniformity Coefficient | | > 110 |
| Curvature Coefficient | | |

Uniformity Coefficient and Coefficient of Curvature calculated in accordance with BS EN ISO 14688-2: 2004 + A1: 2013

Note: Tested in Accordance with BS1377:Part 2:1990, clause 9.2

Remarks: The material submitted - fails to meet the minimum mass requirements as stated in BS1377 Part 2 Table 3
Re-issue 1: Additional results of PSD and Compaction 2.5 kg (sample 1835079)

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PL Deputy Head of Geotechnical Section
**for and on behalf of i2 Analytical Ltd**



**Date Reported:** 04/06/2021

**GF 100.20**

# TEST CERTIFICATE

## Particle Size Distribution

Tested in Accordance with: BS 1377-2: 1990

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

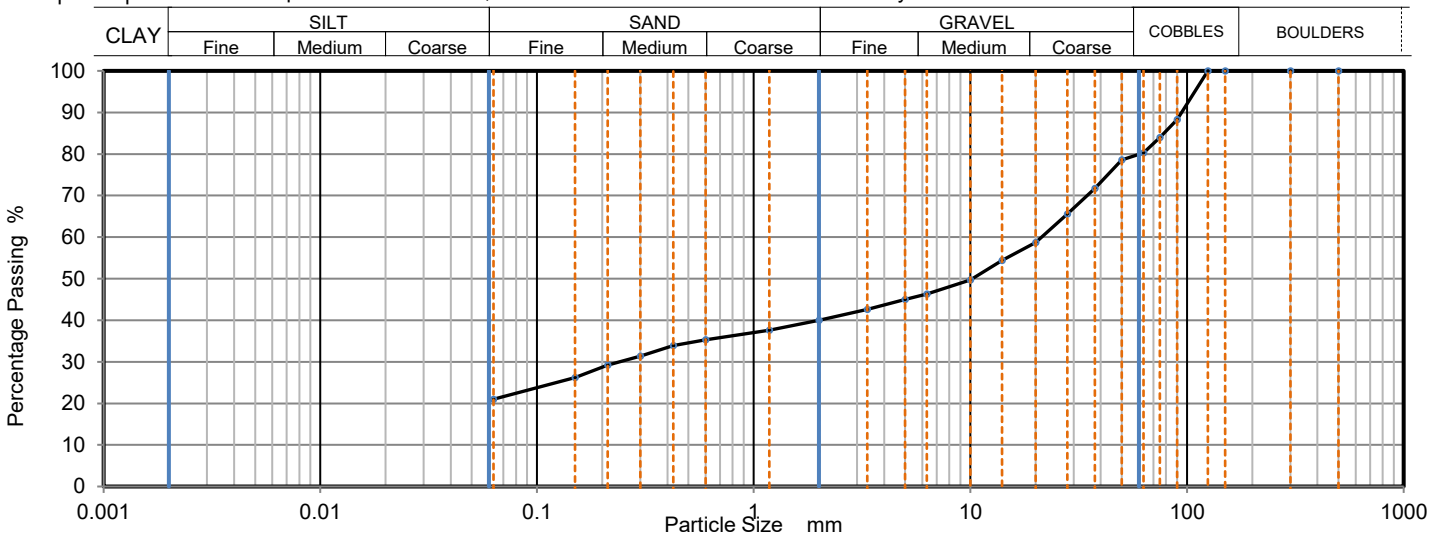
4041

| | | | |
|---|---|---|---|
| Client: | Delta-Simons | Client Reference: | 19-2099.04 |
| Client Address: | Suite C1, Joseph's Well,<br>Hanover Walk, Leeds,<br>LS3 1AB | Job Number: | 21-68356 |
| | | Date Sampled: | 01/04/2021 |
| | | Date Received: | 14/04/2021 |
| Contact: | David Jackson | Date Tested: | 26/04/2021 |
| Site Address: | Brockhampton West, Havant | Sampled By: | Client |

*Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland*

**Test Results:**

| | | | |
|---|---|---|---|
| Laboratory Reference: | 1835066 | Depth Top [m]: | 1.40 |
| Hole No.: | TP118 | Depth Base [m]: | 1.60 |
| Sample Reference: | Not Given | Sample Type: | B |
| Sample Description: | Brown sandy very clayey GRAVEL with fragments of brick, wood, concrete, glass | | |
| Sample Preparation: | Sample was whole tested, oven dried at 106.1 °C and broken down by hand. | | |




| Sieving | | Sedimentation | |
|---|---|---|---|
| Particle Size mm | % Passing | Particle Size mm | % Passing |
| 500 | 100 | | |
| 300 | 100 | | |
| 150 | 100 | | |
| 125 | 100 | | |
| 90 | 88 | | |
| 75 | 84 | | |
| 63 | 80 | | |
| 50 | 79 | | |
| 37.5 | 72 | | |
| 28 | 66 | | |
| 20 | 59 | | |
| 14 | 54 | | |
| 10 | 50 | | |
| 6.3 | 46 | | |
| 5 | 45 | | |
| 3.35 | 43 | | |
| 2 | 40 | | |
| 1.18 | 38 | | |
| 0.6 | 35 | | |
| 0.425 | 34 | | |
| 0.3 | 31 | | |
| 0.212 | 29 | | |
| 0.15 | 26 | | |
| 0.063 | 22 | | |

| Sample Proportions | % dry mass |
|---|---|
| Very coarse | 20 |
| Gravel | 40 |
| Sand | 18 |
| | |
| Fines <0.063mm | 22 |

| Grading Analysis | | |
|---|---|---|
| D100 | mm | 125 |
| D60 | mm | 21.3 |
| D30 | mm | 0.239 |
| D10 | mm | |
| Uniformity Coefficient | | > 340 |
| Curvature Coefficient | | |

Uniformity Coefficient and Coefficient of Curvature calculated in accordance with BS EN ISO 14688-2: 2004 + A1: 2013

Note: Tested in Accordance with BS1377:Part 2:1990, clause 9.2

Remarks: The material submitted - fails to meet the minimum mass requirements as stated in BS1377 Part 2 Table 3
Re-issue 1: Additional results of PSD and Compaction 2.5 kg (sample 1835079)

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Monika Janoszek
PL Deputy Head of Geotechnical Section
**for and on behalf of i2 Analytical Ltd**



**Date Reported:** 04/06/2021

**GF 100.20**

# TEST CERTIFICATE

## Particle Size Distribution

Tested in Accordance with: BS 1377-2: 1990

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

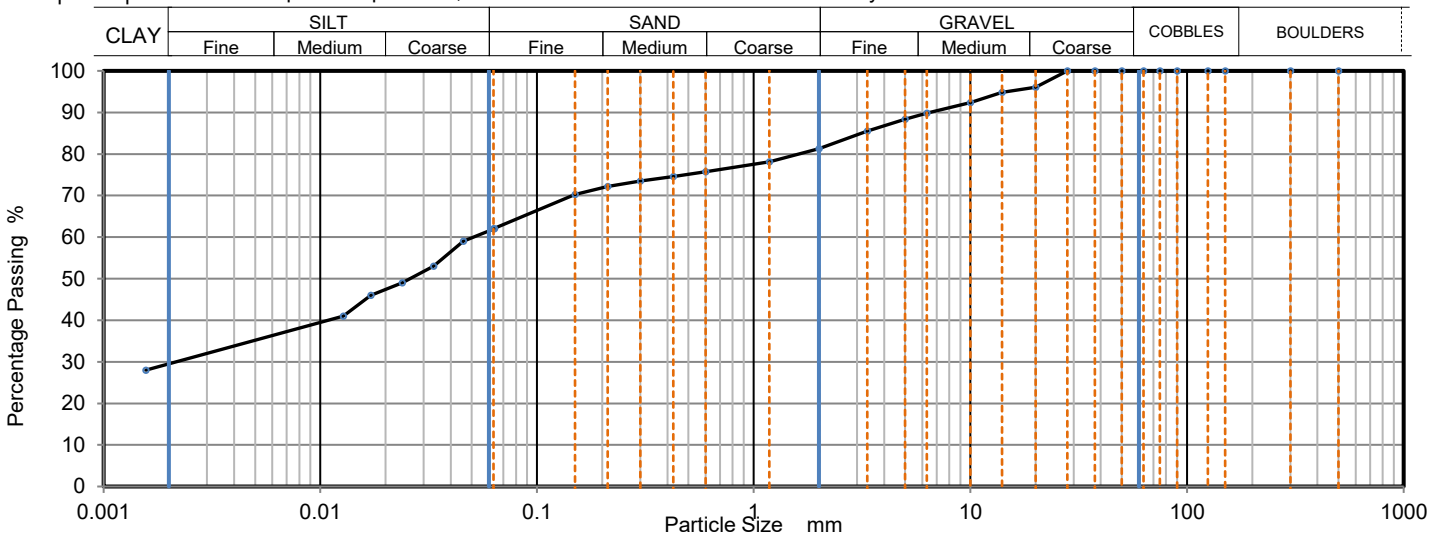
4041

| | | | |
|---|---|---|---|
| Client: | Delta-Simons | Client Reference: | 19-2099.04 |
| Client Address: | Suite C1, Joseph's Well,<br>Hanover Walk, Leeds,<br>LS3 1AB | Job Number: | 21-68356 |
| | | Date Sampled: | 01/04/2021 |
| | | Date Received: | 14/04/2021 |
| Contact: | David Jackson | Date Tested: | 26/04/2021 |
| Site Address: | Brockhampton West, Havant | Sampled By: | Client |

*Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland*

**Test Results:**

| | | | |
|---|---|---|---|
| Laboratory Reference: | 1835067 | Depth Top [m]: | 0.30 |
| Hole No.: | TP119 | Depth Base [m]: | 0.70 |
| Sample Reference: | Not Given | Sample Type: | B |
| Sample Description: | Greyish brown very gravelly very sandy ery clayey SILT with fragments of chalk | | |
| Sample Preparation: | Sample was quartered, oven dried at 106.1 °C and broken down by hand. | | |




| Sieving | | Sedimentation | |
|---|---|---|---|
| Particle Size mm | % Passing | Particle Size mm | % Passing |
| 500 | 100 | 0.0636 | 62 |
| 300 | 100 | 0.0457 | 59 |
| 150 | 100 | 0.0333 | 53 |
| 125 | 100 | 0.0239 | 49 |
| 90 | 100 | 0.0171 | 46 |
| 75 | 100 | 0.0128 | 41 |
| 63 | 100 | 0.0016 | 28 |
| 50 | 100 | | |
| 37.5 | 100 | | |
| 28 | 100 | | |
| 20 | 96 | | |
| 14 | 95 | | |
| 10 | 92 | | |
| 6.3 | 90 | | |
| 5 | 88 | | |
| 3.35 | 86 | Particle density | (assumed) |
| 2 | 81 | 2.65 | Mg/m3 |
| 1.18 | 78 | | |
| 0.6 | 76 | | |
| 0.425 | 75 | | |
| 0.3 | 74 | | |
| 0.212 | 72 | | |
| 0.15 | 70 | | |
| 0.063 | 62 | | |

| Sample Proportions | % dry mass |
|---|---|
| Very coarse | 0 |
| Gravel | 19 |
| Sand | 19 |
| Silt | 33 |
| Clay | 29 |

| Grading Analysis | | |
|---|---|---|
| D100 | mm | 28 |
| D60 | mm | 0.0499 |
| D30 | mm | 0.00218 |
| D10 | mm | |
| Uniformity Coefficient | | > 32 |
| Curvature Coefficient | | |

Uniformity Coefficient and Coefficient of Curvature calculated in accordance with BS EN ISO 14688-2: 2004 + A1: 2013

Note: Tested in Accordance with BS1377:Part 2:1990, clauses 9.2 and 9.5

Remarks: Re-issue 1: Additional results of PSD and Compaction 2.5 kg (sample 1835079)

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PL Deputy Head of Geotechnical Section
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**Date Reported:** 04/06/2021

**GF 100.20**

# TEST CERTIFICATE

## Particle Size Distribution

Tested in Accordance with: BS 1377-2: 1990

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

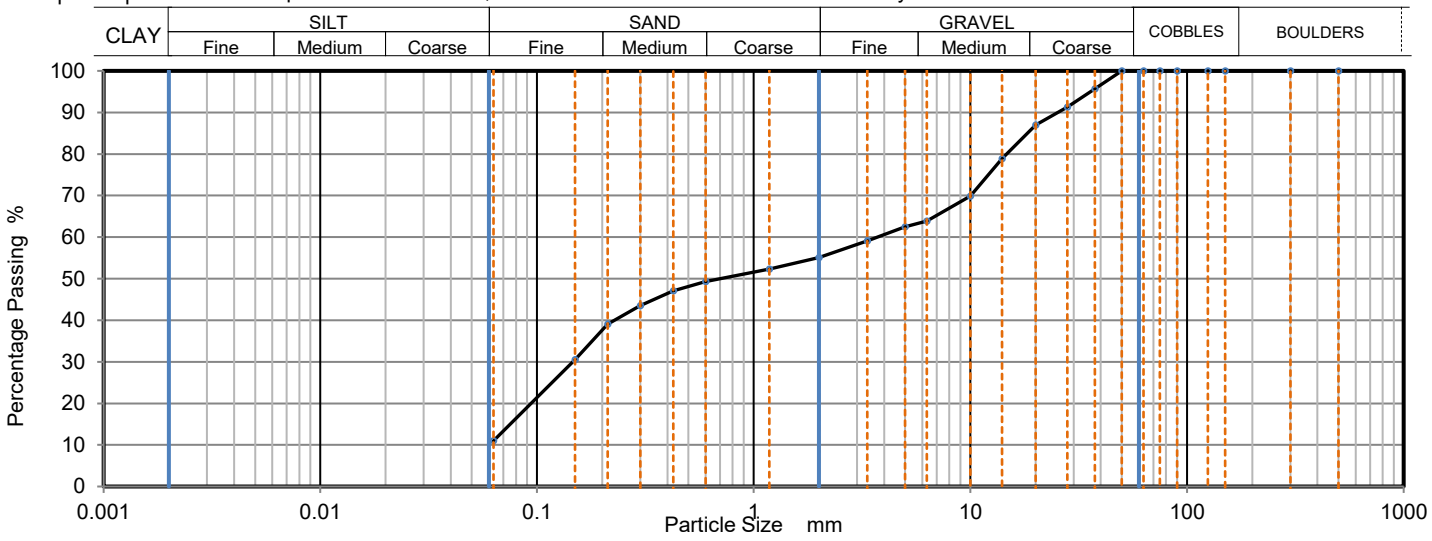
4041

| | | | |
|---|---|---|---|
| Client: | Delta-Simons | Client Reference: | 19-2099.04 |
| Client Address: | Suite C1, Joseph's Well,<br>Hanover Walk, Leeds,<br>LS3 1AB | Job Number: | 21-68356 |
| | | Date Sampled: | 01/04/2021 |
| | | Date Received: | 14/04/2021 |
| Contact: | David Jackson | Date Tested: | 26/04/2021 |
| Site Address: | Brockhampton West, Havant | Sampled By: | Client |

*Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland*

**Test Results:**

| | | | |
|---|---|---|---|
| Laboratory Reference: | 1835068 | Depth Top [m]: | 1.60 |
| Hole No.: | TP119 | Depth Base [m]: | 2.00 |
| Sample Reference: | Not Given | Sample Type: | B |
| Sample Description: | Grey clayey very sandy GRAVEL | | |
| Sample Preparation: | Sample was whole tested, oven dried at 106.1 °C and broken down by hand. | | |




| Sieving | | Sedimentation | |
|---|---|---|---|
| Particle Size mm | % Passing | Particle Size mm | % Passing |
| 500 | 100 | | |
| 300 | 100 | | |
| 150 | 100 | | |
| 125 | 100 | | |
| 90 | 100 | | |
| 75 | 100 | | |
| 63 | 100 | | |
| 50 | 100 | | |
| 37.5 | 96 | | |
| 28 | 91 | | |
| 20 | 87 | | |
| 14 | 79 | | |
| 10 | 70 | | |
| 6.3 | 64 | | |
| 5 | 63 | | |
| 3.35 | 59 | | |
| 2 | 55 | | |
| 1.18 | 52 | | |
| 0.6 | 49 | | |
| 0.425 | 47 | | |
| 0.3 | 44 | | |
| 0.212 | 39 | | |
| 0.15 | 31 | | |
| 0.063 | 12 | | |

| Sample Proportions | % dry mass |
|---|---|
| Very coarse | 0 |
| Gravel | 45 |
| Sand | 43 |
| | |
| Fines <0.063mm | 12 |

| Grading Analysis | | |
|---|---|---|
| D100 | mm | 50 |
| D60 | mm | 3.72 |
| D30 | mm | 0.146 |
| D10 | mm | |
| Uniformity Coefficient | | > 59 |
| Curvature Coefficient | | |

Uniformity Coefficient and Coefficient of Curvature calculated in accordance with BS EN ISO 14688-2: 2004 + A1: 2013

Note: Tested in Accordance with BS1377:Part 2:1990, clause 9.2

Remarks: Re-issue 1: Additional results of PSD and Compaction 2.5 kg (sample 1835079)

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**Signed:**

Monika Janoszek
PL Deputy Head of Geotechnical Section
**for and on behalf of i2 Analytical Ltd**



**Date Reported:** 04/06/2021

**GF 100.20**

# TEST CERTIFICATE

## Particle Size Distribution

Tested in Accordance with: BS 1377-2: 1990

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

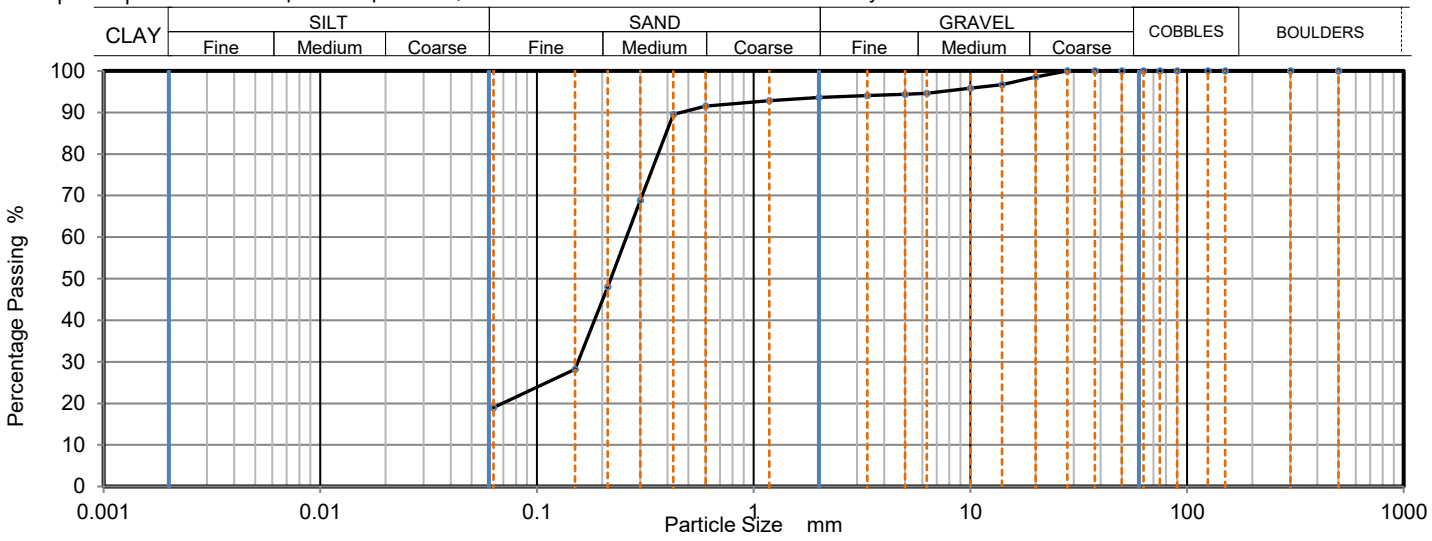
4041

| | | | |
|---|---|---|---|
| Client: | Delta-Simons | Client Reference: | 19-2099.04 |
| Client Address: | Suite C1, Joseph's Well,<br>Hanover Walk, Leeds,<br>LS3 1AB | Job Number: | 21-68356 |
| | | Date Sampled: | 01/04/2021 |
| | | Date Received: | 14/04/2021 |
| Contact: | David Jackson | Date Tested: | 26/04/2021 |
| Site Address: | Brockhampton West, Havant | Sampled By: | Client |

*Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland*

**Test Results:**

| | | | |
|---|---|---|---|
| Laboratory Reference: | 1835069 | Depth Top [m]: | 0.30 |
| Hole No.: | TP120 | Depth Base [m]: | 0.60 |
| Sample Reference: | Not Given | Sample Type: | B |
| Sample Description: | Yellowish brown slightly gravelly clayey SAND | | |
| Sample Preparation: | Sample was quartered, oven dried at 106.0 °C and broken down by hand. | | |




| Sieving | | Sedimentation | |
|---|---|---|---|
| Particle Size mm | % Passing | Particle Size mm | % Passing |
| 500 | 100 | | |
| 300 | 100 | | |
| 150 | 100 | | |
| 125 | 100 | | |
| 90 | 100 | | |
| 75 | 100 | | |
| 63 | 100 | | |
| 50 | 100 | | |
| 37.5 | 100 | | |
| 28 | 100 | | |
| 20 | 99 | | |
| 14 | 97 | | |
| 10 | 96 | | |
| 6.3 | 95 | | |
| 5 | 94 | | |
| 3.35 | 94 | | |
| 2 | 94 | | |
| 1.18 | 93 | | |
| 0.6 | 92 | | |
| 0.425 | 90 | | |
| 0.3 | 69 | | |
| 0.212 | 48 | | |
| 0.15 | 28 | | |
| 0.063 | 19 | | |

| Sample Proportions | % dry mass |
|---|---|
| Very coarse | 0 |
| Gravel | 6 |
| Sand | 74 |
| | |
| Fines <0.063mm | 19 |

| Grading Analysis | | |
|---|---|---|
| D100 | mm | 28 |
| D60 | mm | 0.259 |
| D30 | mm | 0.155 |
| D10 | mm | |
| Uniformity Coefficient | | > 4.1 |
| Curvature Coefficient | | |

Uniformity Coefficient and Coefficient of Curvature calculated in accordance with BS EN ISO 14688-2: 2004 + A1: 2013

Note: Tested in Accordance with BS1377:Part 2:1990, clause 9.2

Remarks: Re-issue 1: Additional results of PSD and Compaction 2.5 kg (sample 1835079)

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**Signed:**

Monika Janoszek
PL Deputy Head of Geotechnical Section
**for and on behalf of i2 Analytical Ltd**



**Date Reported:** 04/06/2021

**GF 100.20**

# TEST CERTIFICATE

## Particle Size Distribution

Tested in Accordance with: BS 1377-2: 1990

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

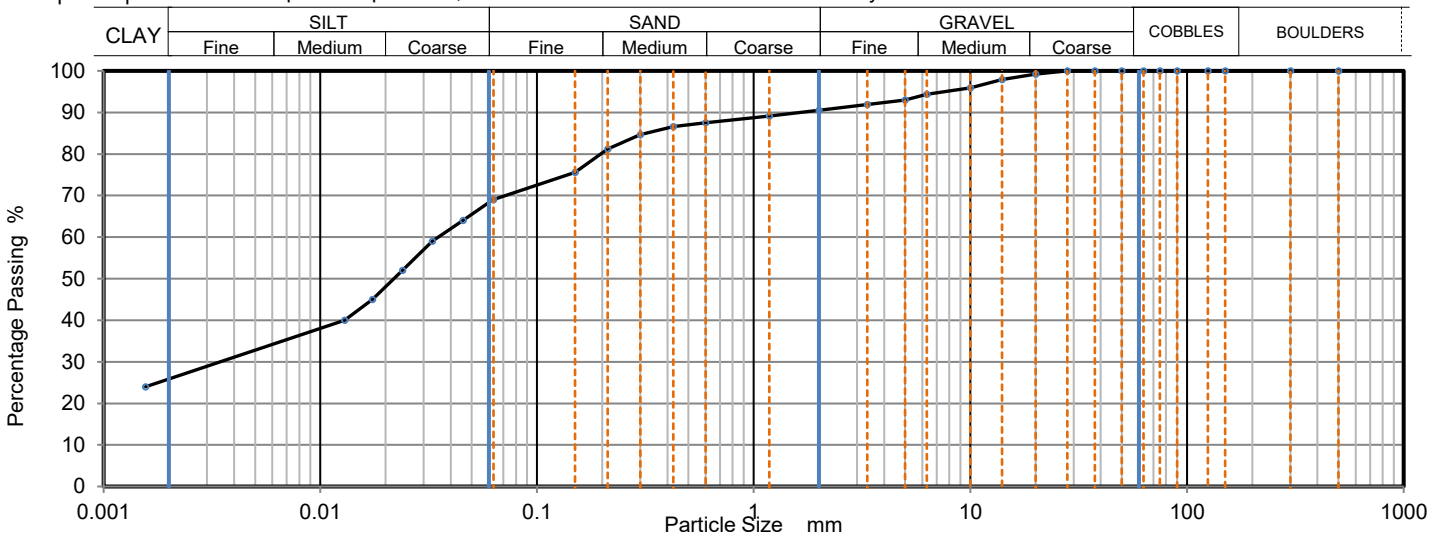
4041

| | | | |
|---|---|---|---|
| Client: | Delta-Simons | Client Reference: | 19-2099.04 |
| Client Address: | Suite C1, Joseph's Well,<br>Hanover Walk, Leeds,<br>LS3 1AB | Job Number: | 21-68356 |
| | | Date Sampled: | 29/03/2021 |
| | | Date Received: | 14/04/2021 |
| Contact: | David Jackson | Date Tested: | 26/04/2021 |
| Site Address: | Brockhampton West, Havant | Sampled By: | Client |

*Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland*

**Test Results:**

| | | | |
|---|---|---|---|
| Laboratory Reference: | 1835070 | Depth Top [m]: | 1.00 |
| Hole No.: | TP101 | Depth Base [m]: | 1.50 |
| Sample Reference: | Not Given | Sample Type: | B |
| Sample Description: | Greyish brown gravelly sandy very clayey SILT | | |
| Sample Preparation: | Sample was quartered, oven dried at 106.1 °C and broken down by hand. | | |




| Sieving | | Sedimentation | |
|---|---|---|---|
| Particle Size mm | % Passing | Particle Size mm | % Passing |
| 500 | 100 | 0.0628 | 69 |
| 300 | 100 | 0.0455 | 64 |
| 150 | 100 | 0.0329 | 59 |
| 125 | 100 | 0.0239 | 52 |
| 90 | 100 | 0.0174 | 45 |
| 75 | 100 | 0.0130 | 40 |
| 63 | 100 | 0.0016 | 24 |
| 50 | 100 | | |
| 37.5 | 100 | | |
| 28 | 100 | | |
| 20 | 99 | | |
| 14 | 98 | | |
| 10 | 96 | | |
| 6.3 | 94 | | |
| 5 | 93 | | |
| 3.35 | 92 | Particle density | (assumed) |
| 2 | 91 | 2.65 | Mg/m3 |
| 1.18 | 89 | | |
| 0.6 | 88 | | |
| 0.425 | 87 | | |
| 0.3 | 85 | | |
| 0.212 | 81 | | |
| 0.15 | 76 | | |
| 0.063 | 69 | | |

| Sample Proportions | % dry mass |
|---|---|
| Very coarse | 0 |
| Gravel | 10 |
| Sand | 21 |
| Silt | 43 |
| Clay | 26 |

| Grading Analysis | | |
|---|---|---|
| D100 | mm | 28 |
| D60 | mm | 0.0352 |
| D30 | mm | 0.00341 |
| D10 | mm | |
| Uniformity Coefficient | | > 23 |
| Curvature Coefficient | | |

Uniformity Coefficient and Coefficient of Curvature calculated in accordance with BS EN ISO 14688-2: 2004 + A1: 2013

Note: Tested in Accordance with BS1377:Part 2:1990, clauses 9.2 and 9.5

Remarks: Re-issue 1: Additional results of PSD and Compaction 2.5 kg (sample 1835079)

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**Signed:**

Monika Janoszek
PL Deputy Head of Geotechnical Section
**for and on behalf of i2 Analytical Ltd**



**Date Reported:** 04/06/2021

**GF 100.20**

# TEST CERTIFICATE

## Particle Size Distribution

Tested in Accordance with: BS 1377-2: 1990

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

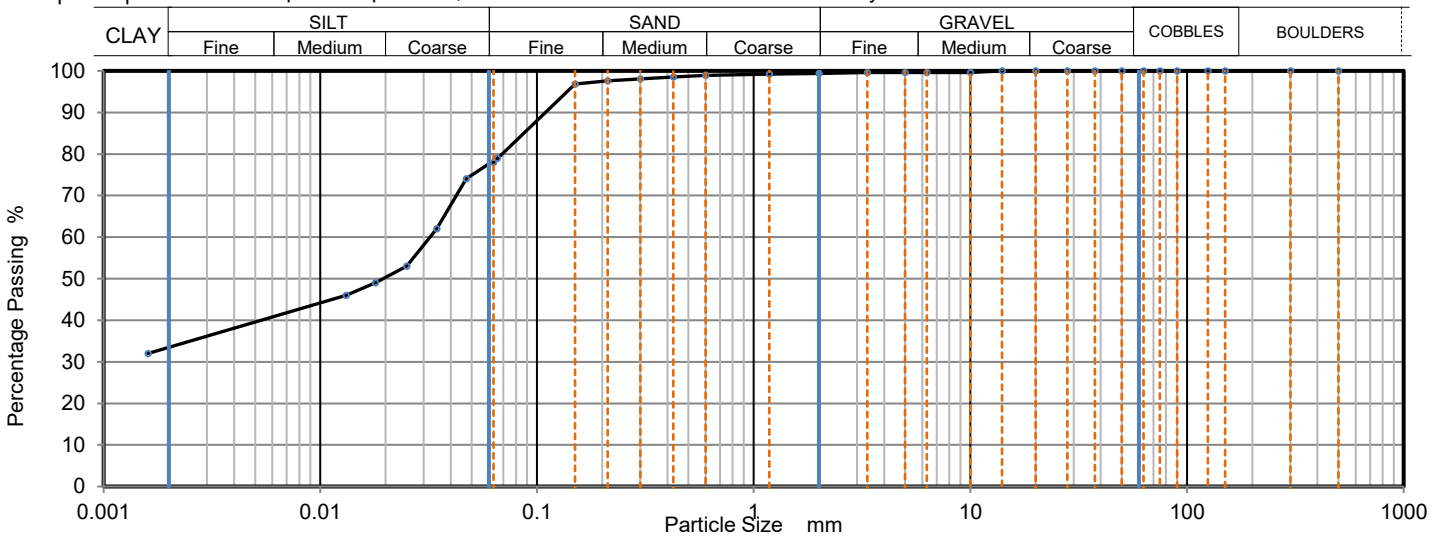
4041

| | | | |
|---|---|---|---|
| Client: | Delta-Simons | Client Reference: | 19-2099.04 |
| Client Address: | Suite C1, Joseph's Well,<br>Hanover Walk, Leeds,<br>LS3 1AB | Job Number: | 21-68356 |
| | | Date Sampled: | 29/03/2021 |
| | | Date Received: | 14/04/2021 |
| Contact: | David Jackson | Date Tested: | 26/04/2021 |
| Site Address: | Brockhampton West, Havant | Sampled By: | Client |

*Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland*

**Test Results:**

| | | | |
|---|---|---|---|
| Laboratory Reference: | 1835071 | Depth Top [m]: | 0.30 |
| Hole No.: | TP102 | Depth Base [m]: | 0.50 |
| Sample Reference: | Not Given | Sample Type: | B |
| Sample Description: | Brown very clayey sandy slightly gravelly SILT | | |
| Sample Preparation: | Sample was quartered, oven dried at 106.1 °C and broken down by hand. | | |




| Sieving | | Sedimentation | |
|---|---|---|---|
| Particle Size mm | % Passing | Particle Size mm | % Passing |
| 500 | 100 | 0.0656 | 79 |
| 300 | 100 | 0.0471 | 74 |
| 150 | 100 | 0.0345 | 62 |
| 125 | 100 | 0.0250 | 53 |
| 90 | 100 | 0.0179 | 49 |
| 75 | 100 | 0.0132 | 46 |
| 63 | 100 | 0.0016 | 32 |
| 50 | 100 | | |
| 37.5 | 100 | | |
| 28 | 100 | | |
| 20 | 100 | | |
| 14 | 100 | | |
| 10 | 100 | | |
| 6.3 | 100 | | |
| 5 | 100 | | |
| 3.35 | 100 | Particle density | (assumed) |
| 2 | 99 | 2.65 | Mg/m3 |
| 1.18 | 99 | | |
| 0.6 | 99 | | |
| 0.425 | 99 | | |
| 0.3 | 98 | | |
| 0.212 | 98 | | |
| 0.15 | 97 | | |
| 0.063 | 79 | | |

| Sample Proportions | % dry mass |
|---|---|
| Very coarse | 0 |
| Gravel | 1 |
| Sand | 21 |
| Silt | 44 |
| Clay | 34 |

| Grading Analysis | | |
|---|---|---|
| D100 | mm | 14 |
| D60 | mm | 0.0316 |
| D30 | mm | |
| D10 | mm | |
| Uniformity Coefficient | | > 20 |
| Curvature Coefficient | | |

Uniformity Coefficient and Coefficient of Curvature calculated in accordance with BS EN ISO 14688-2: 2004 + A1: 2013

Note: Tested in Accordance with BS1377:Part 2:1990, clauses 9.2 and 9.5

Remarks: Re-issue 1: Additional results of PSD and Compaction 2.5 kg (sample 1835079)

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**Signed:**

Monika Janoszek
PL Deputy Head of Geotechnical Section
**for and on behalf of i2 Analytical Ltd**



**Date Reported:** 04/06/2021

**GF 100.20**

# TEST CERTIFICATE

## Particle Size Distribution

Tested in Accordance with: BS 1377-2: 1990

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

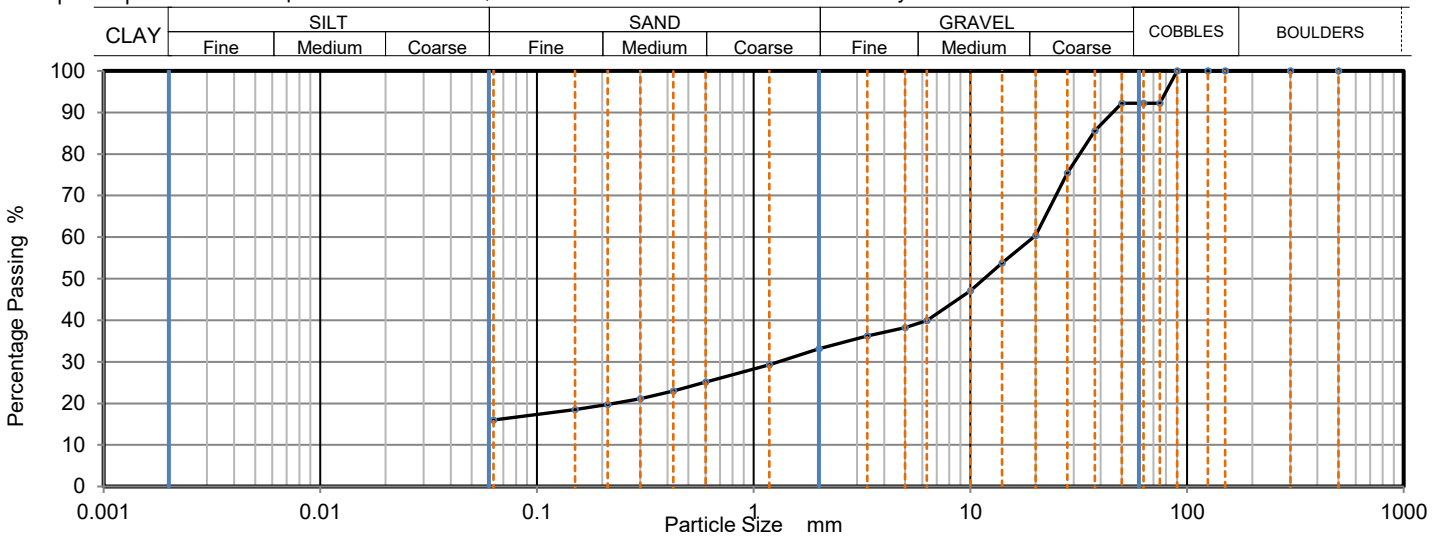
4041

| | | | |
|---|---|---|---|
| Client: | Delta-Simons | Client Reference: | 19-2099.04 |
| Client Address: | Suite C1, Joseph's Well,<br>Hanover Walk, Leeds,<br>LS3 1AB | Job Number: | 21-68356 |
| | | Date Sampled: | 30/03/2021 |
| | | Date Received: | 14/04/2021 |
| Contact: | David Jackson | Date Tested: | 26/04/2021 |
| Site Address: | Brockhampton West, Havant | Sampled By: | Client |

*Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland*

**Test Results:**

| | | | |
|---|---|---|---|
| Laboratory Reference: | 1835075 | Depth Top [m]: | 0.50 |
| Hole No.: | TP104 | Depth Base [m]: | 1.00 |
| Sample Reference: | Not Given | Sample Type: | B |
| Sample Description: | Light brown clayey sandy GRAVEL with cobbles | | |
| Sample Preparation: | Sample was whole tested, oven dried at 106.0 °C and broken down by hand. | | |




| Sieving | | Sedimentation | |
|---|---|---|---|
| Particle Size mm | % Passing | Particle Size mm | % Passing |
| 500 | 100 | | |
| 300 | 100 | | |
| 150 | 100 | | |
| 125 | 100 | | |
| 90 | 100 | | |
| 75 | 92 | | |
| 63 | 92 | | |
| 50 | 92 | | |
| 37.5 | 86 | | |
| 28 | 75 | | |
| 20 | 60 | | |
| 14 | 54 | | |
| 10 | 47 | | |
| 6.3 | 40 | | |
| 5 | 38 | | |
| 3.35 | 36 | | |
| 2 | 33 | | |
| 1.18 | 29 | | |
| 0.6 | 25 | | |
| 0.425 | 23 | | |
| 0.3 | 21 | | |
| 0.212 | 20 | | |
| 0.15 | 19 | | |
| 0.063 | 16 | | |

| Sample Proportions | % dry mass |
|---|---|
| Very coarse | 8 |
| Gravel | 59 |
| Sand | 17 |
| | |
| Fines <0.063mm | 16 |

| Grading Analysis | | |
|---|---|---|
| D100 | mm | 90 |
| D60 | mm | 19.6 |
| D30 | mm | 1.3 |
| D10 | mm | |
| Uniformity Coefficient | | > 310 |
| Curvature Coefficient | | |

Uniformity Coefficient and Coefficient of Curvature calculated in accordance with BS EN ISO 14688-2: 2004 + A1: 2013

Note: Tested in Accordance with BS1377:Part 2:1990, clause 9.2

Remarks: The material submitted - fails to meet the minimum mass requirements as stated in BS1377 Part 2 Table 3
Re-issue 1: Additional results of PSD and Compaction 2.5 kg (sample 1835079)

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**Signed:**

Monika Janoszek
PL Deputy Head of Geotechnical Section
**for and on behalf of i2 Analytical Ltd**



**Date Reported:** 04/06/2021

**GF 100.20**

# TEST CERTIFICATE

## Particle Size Distribution

Tested in Accordance with: BS 1377-2: 1990

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

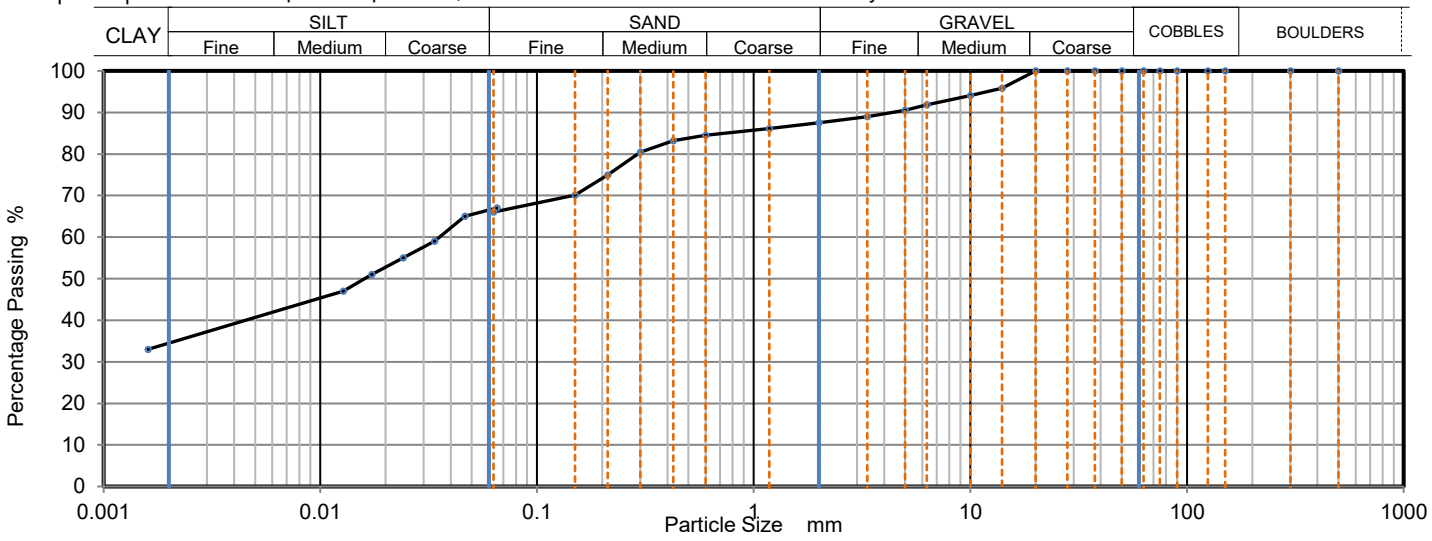
4041

| | | | |
|---|---|---|---|
| Client: | Delta-Simons | Client Reference: | 19-2099.04 |
| Client Address: | Suite C1, Joseph's Well,<br>Hanover Walk, Leeds,<br>LS3 1AB | Job Number: | 21-68356 |
| | | Date Sampled: | 29/03/2021 |
| | | Date Received: | 14/04/2021 |
| Contact: | David Jackson | Date Tested: | 24/04/2021 |
| Site Address: | Brockhampton West, Havant | Sampled By: | Client |

*Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland*

**Test Results:**

| | | | |
|---|---|---|---|
| Laboratory Reference: | 1835076 | Depth Top [m]: | 0.70 |
| Hole No.: | TP105 | Depth Base [m]: | 1.00 |
| Sample Reference: | Not Given | Sample Type: | B |
| Sample Description: | Brown gravelly very sandy very silty CLAY | | |
| Sample Preparation: | Sample was quartered, oven dried at 106.1 °C and broken down by hand. | | |




| Sieving | | Sedimentation | |
|---|---|---|---|
| Particle Size mm | % Passing | Particle Size mm | % Passing |
| 500 | 100 | 0.0653 | 67 |
| 300 | 100 | 0.0465 | 65 |
| 150 | 100 | 0.0336 | 59 |
| 125 | 100 | 0.0241 | 55 |
| 90 | 100 | 0.0173 | 51 |
| 75 | 100 | 0.0128 | 47 |
| 63 | 100 | 0.0016 | 33 |
| 50 | 100 | | |
| 37.5 | 100 | | |
| 28 | 100 | | |
| 20 | 100 | | |
| 14 | 96 | | |
| 10 | 94 | | |
| 6.3 | 92 | | |
| 5 | 91 | | |
| 3.35 | 89 | Particle density | (assumed) |
| 2 | 88 | 2.65 | Mg/m3 |
| 1.18 | 86 | | |
| 0.6 | 85 | | |
| 0.425 | 83 | | |
| 0.3 | 80 | | |
| 0.212 | 75 | | |
| 0.15 | 70 | | |
| 0.063 | 67 | | |

| Sample Proportions | % dry mass |
|---|---|
| Very coarse | 0 |
| Gravel | 13 |
| Sand | 21 |
| Silt | 31 |
| Clay | 35 |

| Grading Analysis | | |
|---|---|---|
| D100 | mm | 20 |
| D60 | mm | 0.0362 |
| D30 | mm | |
| D10 | mm | |
| Uniformity Coefficient | | > 23 |
| Curvature Coefficient | | |

Uniformity Coefficient and Coefficient of Curvature calculated in accordance with BS EN ISO 14688-2: 2004 + A1: 2013

Note: Tested in Accordance with BS1377:Part 2:1990, clauses 9.2 and 9.5

Remarks: Re-issue 1: Additional results of PSD and Compaction 2.5 kg (sample 1835079)

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**Signed:**

Monika Janoszek
PL Deputy Head of Geotechnical Section
**for and on behalf of i2 Analytical Ltd**



**Date Reported:** 04/06/2021

**GF 100.20**

# TEST CERTIFICATE

## Particle Size Distribution

Tested in Accordance with: BS 1377-2: 1990

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

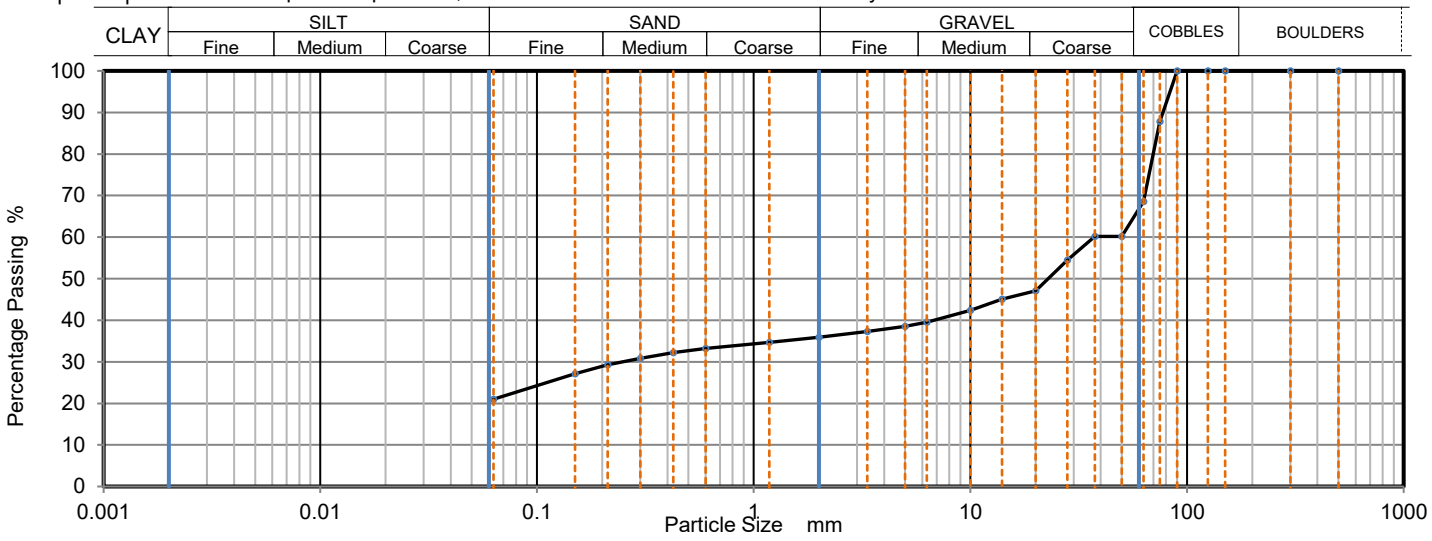
4041

| | | | |
|---|---|---|---|
| Client: | Delta-Simons | Client Reference: | 19-2099.04 |
| Client Address: | Suite C1, Joseph's Well,<br>Hanover Walk, Leeds,<br>LS3 1AB | Job Number: | 21-68356 |
| | | Date Sampled: | 29/03/2021 |
| | | Date Received: | 14/04/2021 |
| Contact: | David Jackson | Date Tested: | 02/06/2021 |
| Site Address: | Brockhampton West, Havant | Sampled By: | Client |

*Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland*

**Test Results:**

| | | | |
|---|---|---|---|
| Laboratory Reference: | 1835079 | Depth Top [m]: | 0.50 |
| Hole No.: | TP106 | Depth Base [m]: | 0.70 |
| Sample Reference: | Not Given | Sample Type: | B |
| Sample Description: | Greyish brown clayey sandy GRAVEL | | |
| Sample Preparation: | Sample was quartered, oven dried at 106.1 °C and broken down by hand. | | |




| Sieving | | Sedimentation | |
|---|---|---|---|
| Particle Size mm | % Passing | Particle Size mm | % Passing |
| 500 | 100 | | |
| 300 | 100 | | |
| 150 | 100 | | |
| 125 | 100 | | |
| 90 | 100 | | |
| 75 | 88 | | |
| 63 | 69 | | |
| 50 | 60 | | |
| 37.5 | 60 | | |
| 28 | 55 | | |
| 20 | 47 | | |
| 14 | 45 | | |
| 10 | 42 | | |
| 6.3 | 40 | | |
| 5 | 39 | | |
| 3.35 | 37 | | |
| 2 | 36 | | |
| 1.18 | 35 | | |
| 0.6 | 33 | | |
| 0.425 | 32 | | |
| 0.3 | 31 | | |
| 0.212 | 29 | | |
| 0.15 | 27 | | |
| 0.063 | 22 | | |

| Sample Proportions | % dry mass |
|---|---|
| Very coarse | 31 |
| Gravel | 33 |
| Sand | 14 |
| | |
| Fines <0.063mm | 21 |

| Grading Analysis | | |
|---|---|---|
| D100 | mm | 90 |
| D60 | mm | 37 |
| D30 | mm | 0.25 |
| D10 | mm | |
| Uniformity Coefficient | | > 590 |
| Curvature Coefficient | | |

Uniformity Coefficient and Coefficient of Curvature calculated in accordance with BS EN ISO 14688-2: 2004 + A1: 2013

Note: Tested in Accordance with BS1377:Part 2:1990, clause 9.2

Remarks: Re-issue 1: Additional results of PSD and Compaction 2.5 kg (sample 1835079)

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**Signed:**

Monika Janoszek
PL Deputy Head of Geotechnical Section
**for and on behalf of i2 Analytical Ltd**



**Date Reported:** 04/06/2021

**GF 100.20**

# TEST CERTIFICATE

## Particle Size Distribution

Tested in Accordance with: BS 1377-2: 1990

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

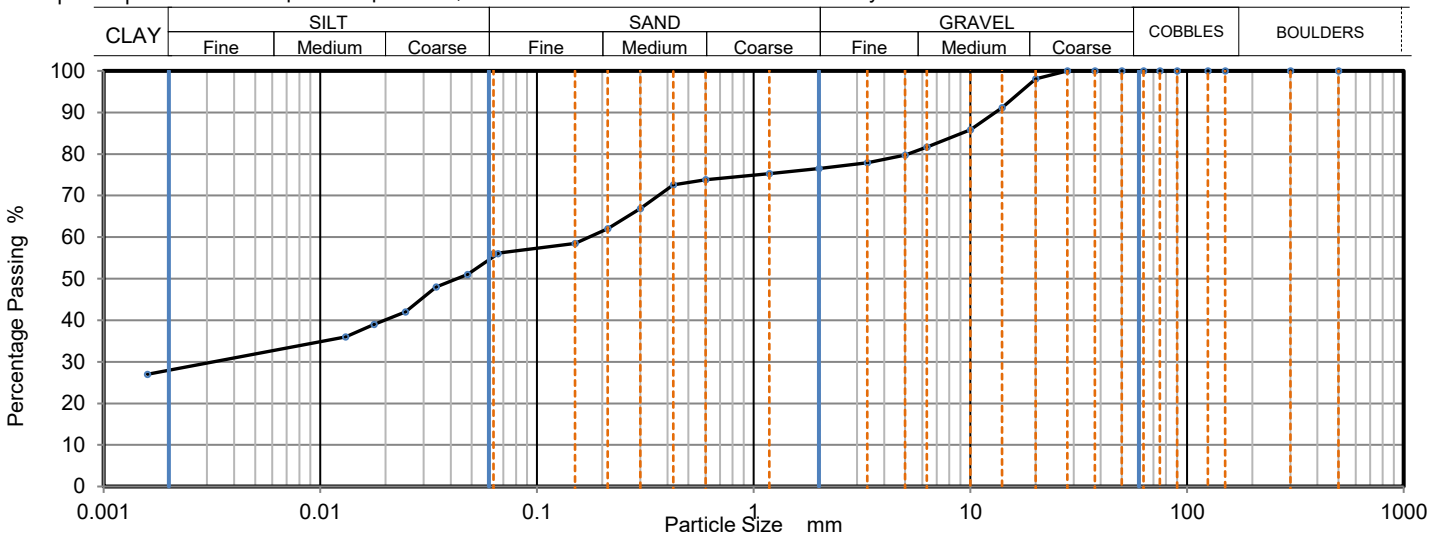
4041

| | | | |
|---|---|---|---|
| Client: | Delta-Simons | Client Reference: | 19-2099.04 |
| Client Address: | Suite C1, Joseph's Well,<br>Hanover Walk, Leeds,<br>LS3 1AB | Job Number: | 21-68356 |
| | | Date Sampled: | 30/03/2021 |
| | | Date Received: | 14/04/2021 |
| Contact: | David Jackson | Date Tested: | 26/04/2021 |
| Site Address: | Brockhampton West, Havant | Sampled By: | Client |

*Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland*

**Test Results:**

| | | | |
|---|---|---|---|
| Laboratory Reference: | 1835081 | Depth Top [m]: | 0.50 |
| Hole No.: | TP108 | Depth Base [m]: | 1.00 |
| Sample Reference: | Not Given | Sample Type: | B |
| Sample Description: | Greyish brown very gravelly very sandy CLAY and SILT | | |
| Sample Preparation: | Sample was quartered, oven dried at 106.0 °C and broken down by hand. | | |




| Sieving | | Sedimentation | |
|---|---|---|---|
| Particle Size mm | % Passing | Particle Size mm | % Passing |
| 500 | 100 | 0.0661 | 56 |
| 300 | 100 | 0.0477 | 51 |
| 150 | 100 | 0.0342 | 48 |
| 125 | 100 | 0.0247 | 42 |
| 90 | 100 | 0.0177 | 39 |
| 75 | 100 | 0.0131 | 36 |
| 63 | 100 | 0.0016 | 27 |
| 50 | 100 | | |
| 37.5 | 100 | | |
| 28 | 100 | | |
| 20 | 98 | | |
| 14 | 91 | | |
| 10 | 86 | | |
| 6.3 | 82 | | |
| 5 | 80 | | |
| 3.35 | 78 | Particle density | (assumed) |
| 2 | 77 | 2.65 | Mg/m3 |
| 1.18 | 75 | | |
| 0.6 | 74 | | |
| 0.425 | 73 | | |
| 0.3 | 67 | | |
| 0.212 | 62 | | |
| 0.15 | 59 | | |
| 0.063 | 56 | | |

| Sample Proportions | % dry mass |
|---|---|
| Very coarse | 0 |
| Gravel | 23 |
| Sand | 21 |
| Silt | 28 |
| Clay | 28 |

| Grading Analysis | | |
|---|---|---|
| D100 | mm | 28 |
| D60 | mm | 0.174 |
| D30 | mm | 0.00323 |
| D10 | mm | |
| Uniformity Coefficient | | > 110 |
| Curvature Coefficient | | |

Uniformity Coefficient and Coefficient of Curvature calculated in accordance with BS EN ISO 14688-2: 2004 + A1: 2013

Note: Tested in Accordance with BS1377:Part 2:1990, clauses 9.2 and 9.5

Remarks: Re-issue 1: Additional results of PSD and Compaction 2.5 kg (sample 1835079)

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**Signed:**

Monika Janoszek
PL Deputy Head of Geotechnical Section
**for and on behalf of i2 Analytical Ltd**



**Date Reported:** 04/06/2021

**GF 100.20**

# TEST CERTIFICATE

## Particle Size Distribution

Tested in Accordance with: BS 1377-2: 1990

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

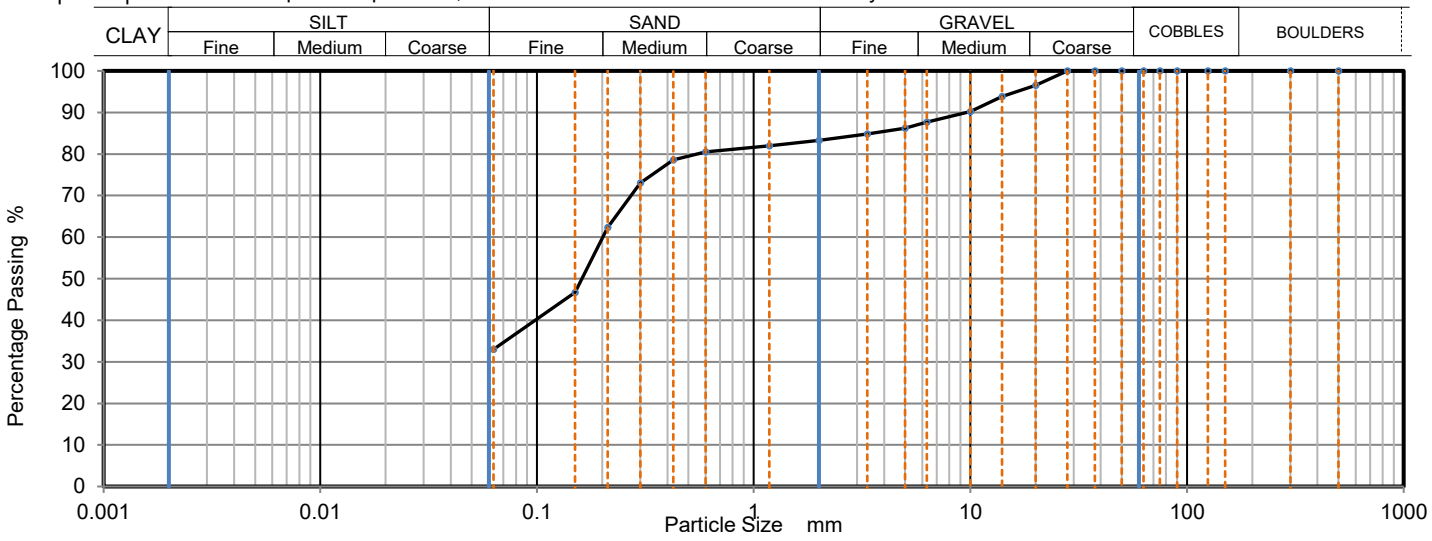
4041

| | | | |
|---|---|---|---|
| Client: | Delta-Simons | Client Reference: | 19-2099.04 |
| Client Address: | Suite C1, Joseph's Well,<br>Hanover Walk, Leeds,<br>LS3 1AB | Job Number: | 21-68356 |
| | | Date Sampled: | 01/04/2021 |
| | | Date Received: | 14/04/2021 |
| Contact: | David Jackson | Date Tested: | 26/04/2021 |
| Site Address: | Brockhampton West, Havant | Sampled By: | Client |

*Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland*

**Test Results:**

| | | | |
|---|---|---|---|
| Laboratory Reference: | 1835083 | Depth Top [m]: | 0.50 |
| Hole No.: | TP109 | Depth Base [m]: | 0.90 |
| Sample Reference: | Not Given | Sample Type: | B |
| Sample Description: | Brownish grey gravelly very clayey SAND | | |
| Sample Preparation: | Sample was quartered, oven dried at 106.1 °C and broken down by hand. | | |




| Sieving | | Sedimentation | |
|---|---|---|---|
| Particle Size mm | % Passing | Particle Size mm | % Passing |
| 500 | 100 | | |
| 300 | 100 | | |
| 150 | 100 | | |
| 125 | 100 | | |
| 90 | 100 | | |
| 75 | 100 | | |
| 63 | 100 | | |
| 50 | 100 | | |
| 37.5 | 100 | | |
| 28 | 100 | | |
| 20 | 97 | | |
| 14 | 94 | | |
| 10 | 90 | | |
| 6.3 | 88 | | |
| 5 | 86 | | |
| 3.35 | 85 | | |
| 2 | 83 | | |
| 1.18 | 82 | | |
| 0.6 | 81 | | |
| 0.425 | 79 | | |
| 0.3 | 73 | | |
| 0.212 | 62 | | |
| 0.15 | 47 | | |
| 0.063 | 33 | | |

| Sample Proportions | % dry mass |
|---|---|
| Very coarse | 0 |
| Gravel | 17 |
| Sand | 50 |
| | |
| Fines <0.063mm | 33 |

| Grading Analysis | | |
|---|---|---|
| D100 | mm | 28 |
| D60 | mm | 0.201 |
| D30 | mm | |
| D10 | mm | |
| Uniformity Coefficient | | > 3.2 |
| Curvature Coefficient | | |

Uniformity Coefficient and Coefficient of Curvature calculated in accordance with BS EN ISO 14688-2: 2004 + A1: 2013

Note: Tested in Accordance with BS1377:Part 2:1990, clause 9.2

Remarks: Re-issue 1: Additional results of PSD and Compaction 2.5 kg (sample 1835079)

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**Signed:**

Monika Janoszek
PL Deputy Head of Geotechnical Section
**for and on behalf of i2 Analytical Ltd**



**Date Reported:** 04/06/2021

**GF 100.20**

# TEST CERTIFICATE

## Particle Size Distribution

Tested in Accordance with: BS 1377-2: 1990

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

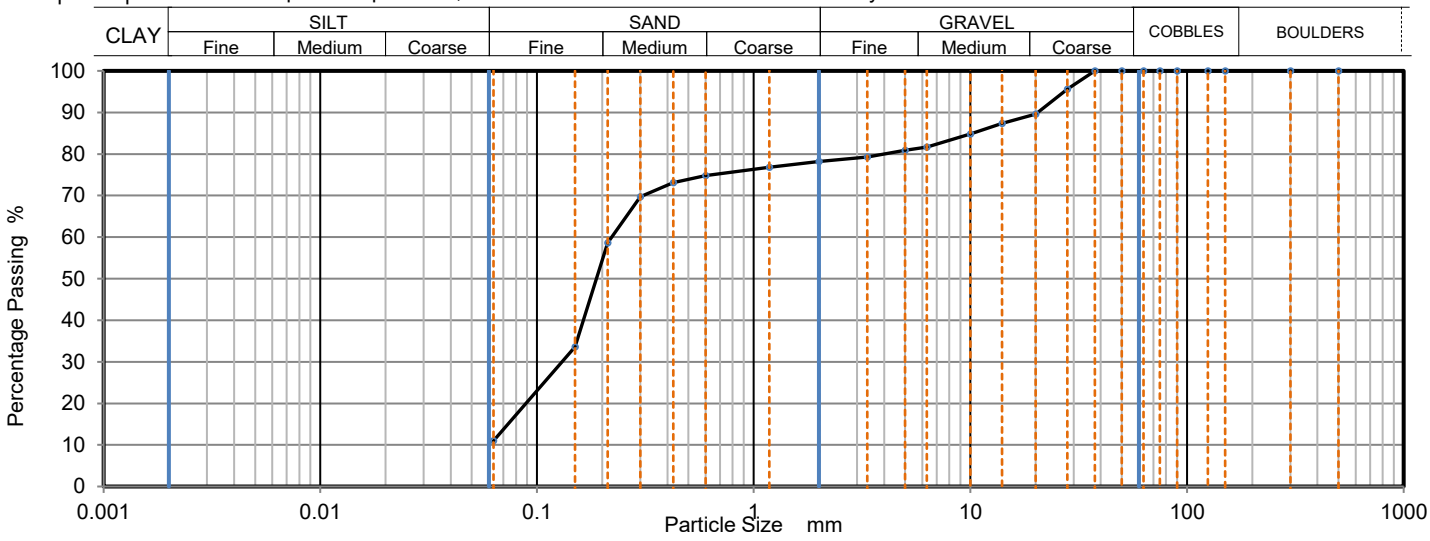
4041

| | | | |
|---|---|---|---|
| Client: | Delta-Simons | Client Reference: | 19-2099.04 |
| Client Address: | Suite C1, Joseph's Well,<br>Hanover Walk, Leeds,<br>LS3 1AB | Job Number: | 21-68356 |
| | | Date Sampled: | 31/03/2021 |
| | | Date Received: | 14/04/2021 |
| Contact: | David Jackson | Date Tested: | 26/04/2021 |
| Site Address: | Brockhampton West, Havant | Sampled By: | Client |

*Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland*

**Test Results:**

| | | | |
|---|---|---|---|
| Laboratory Reference: | 1835084 | Depth Top [m]: | 0.50 |
| Hole No.: | TP110 | Depth Base [m]: | 1.00 |
| Sample Reference: | Not Given | Sample Type: | B |
| Sample Description: | Yellowish brown clayey gravelly SAND | | |
| Sample Preparation: | Sample was quartered, oven dried at 106.0 °C and broken down by hand. | | |




| Sieving | | Sedimentation | |
|---|---|---|---|
| Particle Size mm | % Passing | Particle Size mm | % Passing |
| 500 | 100 | | |
| 300 | 100 | | |
| 150 | 100 | | |
| 125 | 100 | | |
| 90 | 100 | | |
| 75 | 100 | | |
| 63 | 100 | | |
| 50 | 100 | | |
| 37.5 | 100 | | |
| 28 | 96 | | |
| 20 | 90 | | |
| 14 | 87 | | |
| 10 | 85 | | |
| 6.3 | 82 | | |
| 5 | 81 | | |
| 3.35 | 79 | | |
| 2 | 78 | | |
| 1.18 | 77 | | |
| 0.6 | 75 | | |
| 0.425 | 73 | | |
| 0.3 | 70 | | |
| 0.212 | 59 | | |
| 0.15 | 34 | | |
| 0.063 | 11 | | |

| Sample Proportions | % dry mass |
|---|---|
| Very coarse | 0 |
| Gravel | 22 |
| Sand | 67 |
| | |
| Fines <0.063mm | 11 |

| Grading Analysis | | |
|---|---|---|
| D100 | mm | 37.5 |
| D60 | mm | 0.222 |
| D30 | mm | 0.13 |
| D10 | mm | |
| Uniformity Coefficient | | > 3.5 |
| Curvature Coefficient | | |

Uniformity Coefficient and Coefficient of Curvature calculated in accordance with BS EN ISO 14688-2: 2004 + A1: 2013

Note: Tested in Accordance with BS1377:Part 2:1990, clause 9.2

Remarks: Re-issue 1: Additional results of PSD and Compaction 2.5 kg (sample 1835079)

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**Signed:**

Monika Janoszek
PL Deputy Head of Geotechnical Section
**for and on behalf of i2 Analytical Ltd**



**Date Reported:** 04/06/2021

**GF 100.20**

# TEST CERTIFICATE

## Particle Size Distribution

Tested in Accordance with: BS 1377-2: 1990

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

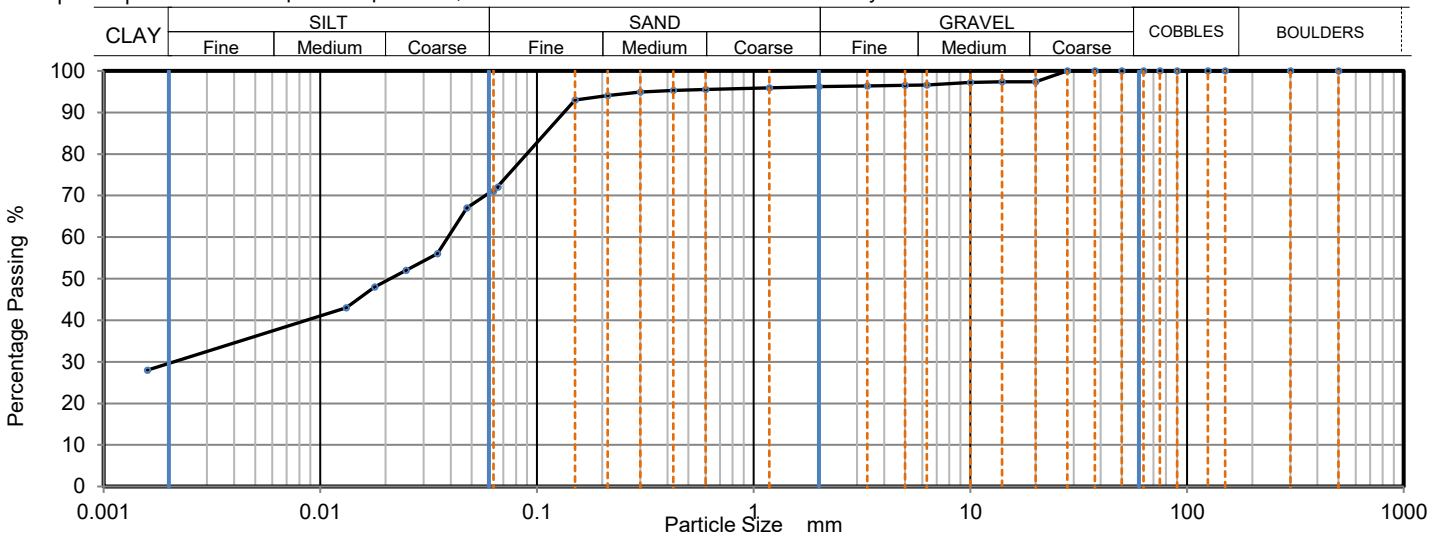
4041

| | | | |
|---|---|---|---|
| Client: | Delta-Simons | Client Reference: | 19-2099.04 |
| Client Address: | Suite C1, Joseph's Well,<br>Hanover Walk, Leeds,<br>LS3 1AB | Job Number: | 21-68356 |
| | | Date Sampled: | 31/03/2021 |
| | | Date Received: | 14/04/2021 |
| Contact: | David Jackson | Date Tested: | 26/04/2021 |
| Site Address: | Brockhampton West, Havant | Sampled By: | Client |

*Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland*

**Test Results:**

| | | | |
|---|---|---|---|
| Laboratory Reference: | 1835085 | Depth Top [m]: | 2.80 |
| Hole No.: | TP110 | Depth Base [m]: | 3.20 |
| Sample Reference: | Not Given | Sample Type: | B |
| Sample Description: | Brown slightly gravelly very clayey SILT and SAND | | |
| Sample Preparation: | Sample was quartered, oven dried at 106.0 °C and broken down by hand. | | |




| Sieving | | Sedimentation | |
|---|---|---|---|
| Particle Size mm | % Passing | Particle Size mm | % Passing |
| 500 | 100 | 0.0661 | 72 |
| 300 | 100 | 0.0474 | 67 |
| 150 | 100 | 0.0347 | 56 |
| 125 | 100 | 0.0249 | 52 |
| 90 | 100 | 0.0178 | 48 |
| 75 | 100 | 0.0132 | 43 |
| 63 | 100 | 0.0016 | 28 |
| 50 | 100 | | |
| 37.5 | 100 | | |
| 28 | 100 | | |
| 20 | 97 | | |
| 14 | 97 | | |
| 10 | 97 | | |
| 6.3 | 97 | | |
| 5 | 97 | | |
| 3.35 | 96 | Particle density | (assumed) |
| 2 | 96 | 2.65 | Mg/m3 |
| 1.18 | 96 | | |
| 0.6 | 96 | | |
| 0.425 | 95 | | |
| 0.3 | 95 | | |
| 0.212 | 94 | | |
| 0.15 | 93 | | |
| 0.063 | 72 | | |

| Sample Proportions | % dry mass |
|---|---|
| Very coarse | 0 |
| Gravel | 4 |
| Sand | 25 |
| Silt | 41 |
| Clay | 30 |

| Grading Analysis | | |
|---|---|---|
| D100 | mm | 28 |
| D60 | mm | 0.0386 |
| D30 | mm | 0.00205 |
| D10 | mm | |
| Uniformity Coefficient | | > 24 |
| Curvature Coefficient | | |

Uniformity Coefficient and Coefficient of Curvature calculated in accordance with BS EN ISO 14688-2: 2004 + A1: 2013

Note: Tested in Accordance with BS1377:Part 2:1990, clauses 9.2 and 9.5

Remarks: Re-issue 1: Additional results of PSD and Compaction 2.5 kg (sample 1835079)

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**Signed:**

Monika Janoszek
PL Deputy Head of Geotechnical Section
**for and on behalf of i2 Analytical Ltd**



**Date Reported:** 04/06/2021

**GF 100.20**

# TEST CERTIFICATE

## Particle Size Distribution

Tested in Accordance with: BS 1377-2: 1990

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

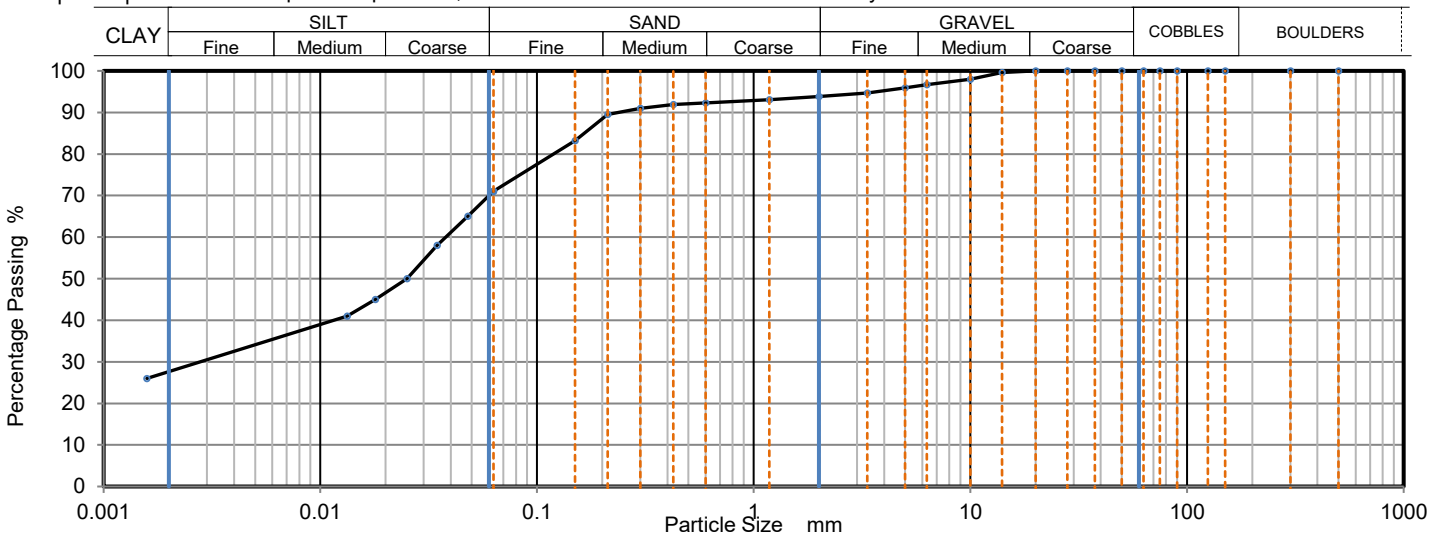
4041

| | | | |
|---|---|---|---|
| Client: | Delta-Simons | Client Reference: | 19-2099.04 |
| Client Address: | Suite C1, Joseph's Well,<br>Hanover Walk, Leeds,<br>LS3 1AB | Job Number: | 21-68356 |
| | | Date Sampled: | 30/03/2021 |
| | | Date Received: | 14/04/2021 |
| Contact: | David Jackson | Date Tested: | 26/04/2021 |
| Site Address: | Brockhampton West, Havant | Sampled By: | Client |

*Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland*

**Test Results:**

| | | | |
|---|---|---|---|
| Laboratory Reference: | 1835086 | Depth Top [m]: | 0.50 |
| Hole No.: | TP111 | Depth Base [m]: | 1.00 |
| Sample Reference: | Not Given | Sample Type: | B |
| Sample Description: | Brown gravelly very sandy very clayey SILT | | |
| Sample Preparation: | Sample was quartered, oven dried at 106.1 °C and broken down by hand. | | |




| Sieving | | Sedimentation | |
|---|---|---|---|
| Particle Size mm | % Passing | Particle Size mm | % Passing |
| 500 | 100 | 0.0630 | 71 |
| 300 | 100 | 0.0479 | 65 |
| 150 | 100 | 0.0346 | 58 |
| 125 | 100 | 0.0251 | 50 |
| 90 | 100 | 0.0180 | 45 |
| 75 | 100 | 0.0133 | 41 |
| 63 | 100 | 0.0016 | 26 |
| 50 | 100 | | |
| 37.5 | 100 | | |
| 28 | 100 | | |
| 20 | 100 | | |
| 14 | 100 | | |
| 10 | 98 | | |
| 6.3 | 97 | | |
| 5 | 96 | | |
| 3.35 | 95 | Particle density | (assumed) |
| 2 | 94 | 2.65 | Mg/m3 |
| 1.18 | 93 | | |
| 0.6 | 92 | | |
| 0.425 | 92 | | |
| 0.3 | 91 | | |
| 0.212 | 90 | | |
| 0.15 | 83 | | |
| 0.063 | 71 | | |

| Sample Proportions | % dry mass |
|---|---|
| Very coarse | 0 |
| Gravel | 6 |
| Sand | 23 |
| Silt | 43 |
| Clay | 28 |

| Grading Analysis | | |
|---|---|---|
| D100 | mm | 20 |
| D60 | mm | 0.0376 |
| D30 | mm | 0.00281 |
| D10 | mm | |
| Uniformity Coefficient | | > 24 |
| Curvature Coefficient | | |

Uniformity Coefficient and Coefficient of Curvature calculated in accordance with BS EN ISO 14688-2: 2004 + A1: 2013

Note: Tested in Accordance with BS1377:Part 2:1990, clauses 9.2 and 9.5

Remarks: Re-issue 1: Additional results of PSD and Compaction 2.5 kg (sample 1835079)

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PL Deputy Head of Geotechnical Section
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**Date Reported:** 04/06/2021

**GF 100.20**

# TEST CERTIFICATE

## Particle Size Distribution

Tested in Accordance with: BS 1377-2: 1990

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

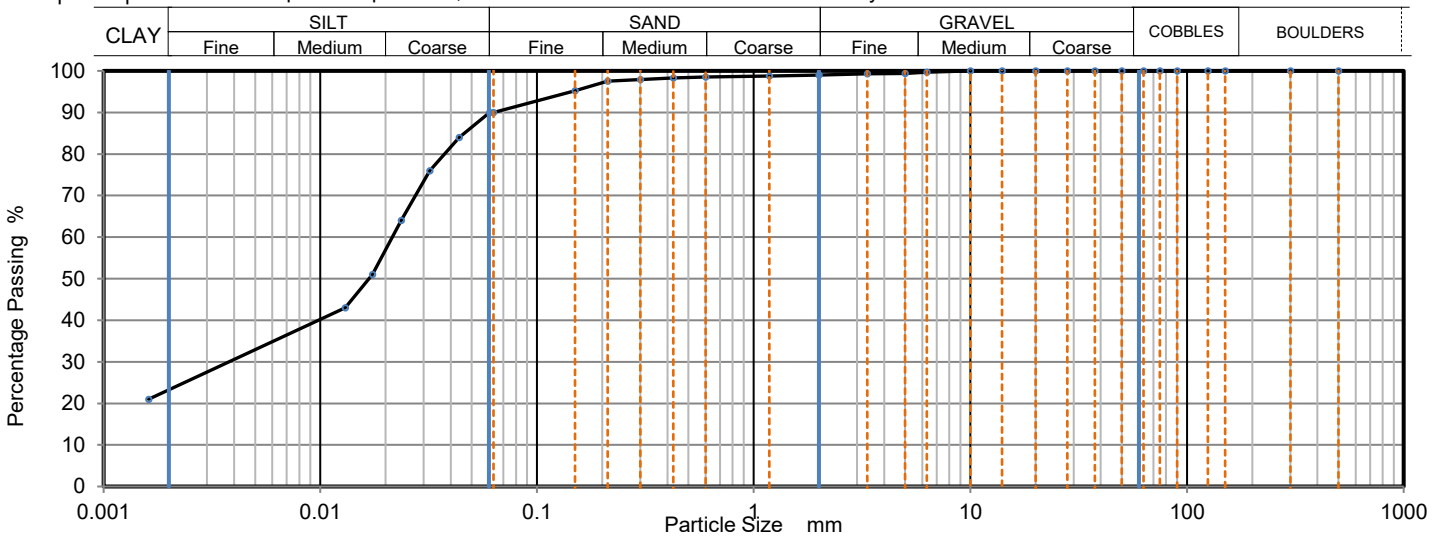
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| | | | |
|---|---|---|---|
| Client: | Delta-Simons | Client Reference: | 19-2099.04 |
| Client Address: | Suite C1, Joseph's Well,<br>Hanover Walk, Leeds,<br>LS3 1AB | Job Number: | 21-68356 |
| | | Date Sampled: | 30/03/2021 |
| | | Date Received: | 14/04/2021 |
| Contact: | David Jackson | Date Tested: | 26/04/2021 |
| Site Address: | Brockhampton West, Havant | Sampled By: | Client |

*Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland*

**Test Results:**

| | | | |
|---|---|---|---|
| Laboratory Reference: | 1835087 | Depth Top [m]: | 3.80 |
| Hole No.: | TP111 | Depth Base [m]: | 4.00 |
| Sample Reference: | Not Given | Sample Type: | B |
| Sample Description: | Brown slightly sandy very clayey SILT | | |
| Sample Preparation: | Sample was quartered, oven dried at 106.0 °C and broken down by hand. | | |




| Sieving | | Sedimentation | |
|---|---|---|---|
| Particle Size mm | % Passing | Particle Size mm | % Passing |
| 500 | 100 | 0.0603 | 90 |
| 300 | 100 | 0.0438 | 84 |
| 150 | 100 | 0.0319 | 76 |
| 125 | 100 | 0.0236 | 64 |
| 90 | 100 | 0.0174 | 51 |
| 75 | 100 | 0.0130 | 43 |
| 63 | 100 | 0.0016 | 21 |
| 50 | 100 | | |
| 37.5 | 100 | | |
| 28 | 100 | | |
| 20 | 100 | | |
| 14 | 100 | | |
| 10 | 100 | | |
| 6.3 | 100 | | |
| 5 | 99 | | |
| 3.35 | 99 | Particle density | (assumed) |
| 2 | 99 | 2.65 | Mg/m3 |
| 1.18 | 99 | | |
| 0.6 | 99 | | |
| 0.425 | 98 | | |
| 0.3 | 98 | | |
| 0.212 | 98 | | |
| 0.15 | 95 | | |
| 0.063 | 90 | | |

| Sample Proportions | % dry mass |
|---|---|
| Very coarse | 0 |
| Gravel | 1 |
| Sand | 9 |
| Silt | 67 |
| Clay | 23 |

| Grading Analysis | | |
|---|---|---|
| D100 | mm | 10 |
| D60 | mm | 0.0216 |
| D30 | mm | 0.00387 |
| D10 | mm | |
| Uniformity Coefficient | | > 13 |
| Curvature Coefficient | | |

Uniformity Coefficient and Coefficient of Curvature calculated in accordance with BS EN ISO 14688-2: 2004 + A1: 2013

Note: Tested in Accordance with BS1377:Part 2:1990, clauses 9.2 and 9.5

Remarks: Re-issue 1: Additional results of PSD and Compaction 2.5 kg (sample 1835079)

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**Signed:**

Monika Janoszek
PL Deputy Head of Geotechnical Section
**for and on behalf of i2 Analytical Ltd**



**Date Reported:** 04/06/2021

**GF 100.20**

# TEST CERTIFICATE

## Particle Size Distribution

Tested in Accordance with: BS 1377-2: 1990

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

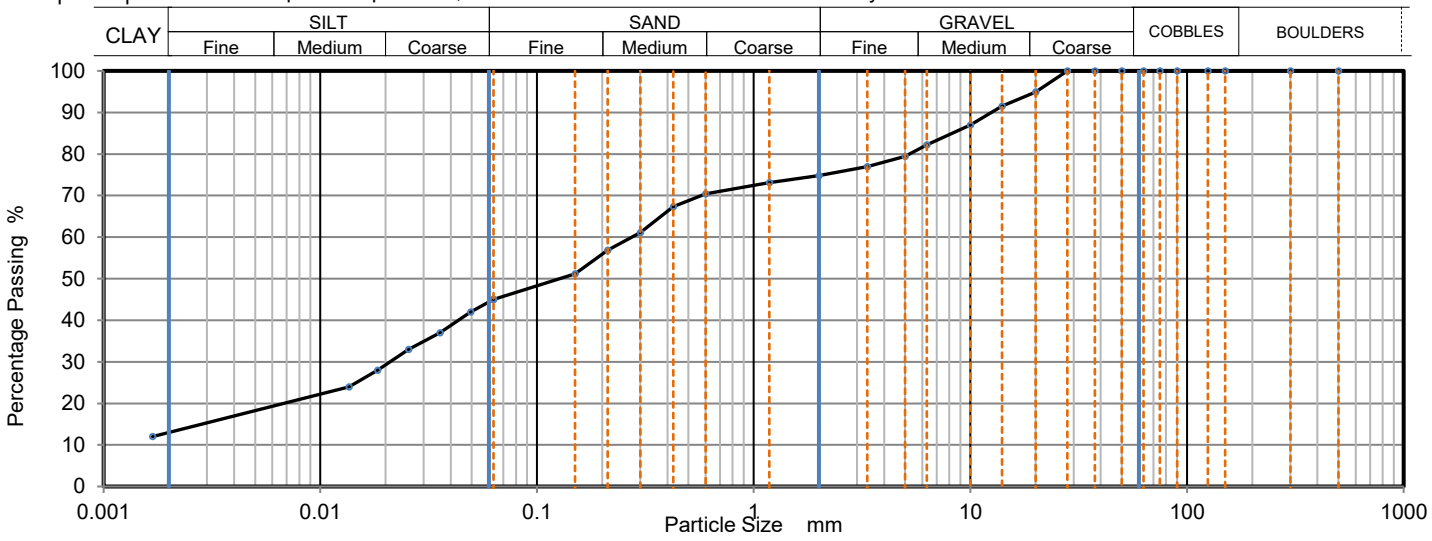
4041

| | | | |
|---|---|---|---|
| Client: | Delta-Simons | Client Reference: | 19-2099.04 |
| Client Address: | Suite C1, Joseph's Well,<br>Hanover Walk, Leeds,<br>LS3 1AB | Job Number: | 21-68356 |
| | | Date Sampled: | 31/03/2021 |
| | | Date Received: | 14/04/2021 |
| Contact: | David Jackson | Date Tested: | 26/04/2021 |
| Site Address: | Brockhampton West, Havant | Sampled By: | Client |

*Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland*

**Test Results:**

| | | | |
|---|---|---|---|
| Laboratory Reference: | 1835088 | Depth Top [m]: | 0.90 |
| Hole No.: | TP112 | Depth Base [m]: | 1.20 |
| Sample Reference: | Not Given | Sample Type: | B |
| Sample Description: | Mottled brown clayey very gravelly very sandy SILT | | |
| Sample Preparation: | Sample was quartered, oven dried at 106.0 °C and broken down by hand. | | |




| Sieving | | Sedimentation | |
|---|---|---|---|
| Particle Size mm | % Passing | Particle Size mm | % Passing |
| 500 | 100 | 0.0630 | 45 |
| 300 | 100 | 0.0495 | 42 |
| 150 | 100 | 0.0356 | 37 |
| 125 | 100 | 0.0255 | 33 |
| 90 | 100 | 0.0184 | 28 |
| 75 | 100 | 0.0136 | 24 |
| 63 | 100 | 0.0017 | 12 |
| 50 | 100 | | |
| 37.5 | 100 | | |
| 28 | 100 | | |
| 20 | 95 | | |
| 14 | 92 | | |
| 10 | 87 | | |
| 6.3 | 82 | | |
| 5 | 79 | | |
| 3.35 | 77 | Particle density | (assumed) |
| 2 | 75 | 2.65 | Mg/m3 |
| 1.18 | 73 | | |
| 0.6 | 70 | | |
| 0.425 | 67 | | |
| 0.3 | 61 | | |
| 0.212 | 57 | | |
| 0.15 | 51 | | |
| 0.063 | 45 | | |

| Sample Proportions | % dry mass |
|---|---|
| Very coarse | 0 |
| Gravel | 25 |
| Sand | 29 |
| Silt | 33 |
| Clay | 13 |

| Grading Analysis | | |
|---|---|---|
| D100 | mm | 28 |
| D60 | mm | 0.273 |
| D30 | mm | 0.0209 |
| D10 | mm | |
| Uniformity Coefficient | | > 160 |
| Curvature Coefficient | | |

Uniformity Coefficient and Coefficient of Curvature calculated in accordance with BS EN ISO 14688-2: 2004 + A1: 2013

Note: Tested in Accordance with BS1377:Part 2:1990, clauses 9.2 and 9.5

Remarks: Re-issue 1: Additional results of PSD and Compaction 2.5 kg (sample 1835079)

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Monika Janoszek
PL Deputy Head of Geotechnical Section
**for and on behalf of i2 Analytical Ltd**



**Date Reported:** 04/06/2021

**GF 100.20**

# TEST CERTIFICATE

## Particle Size Distribution

Tested in Accordance with: BS 1377-2: 1990

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

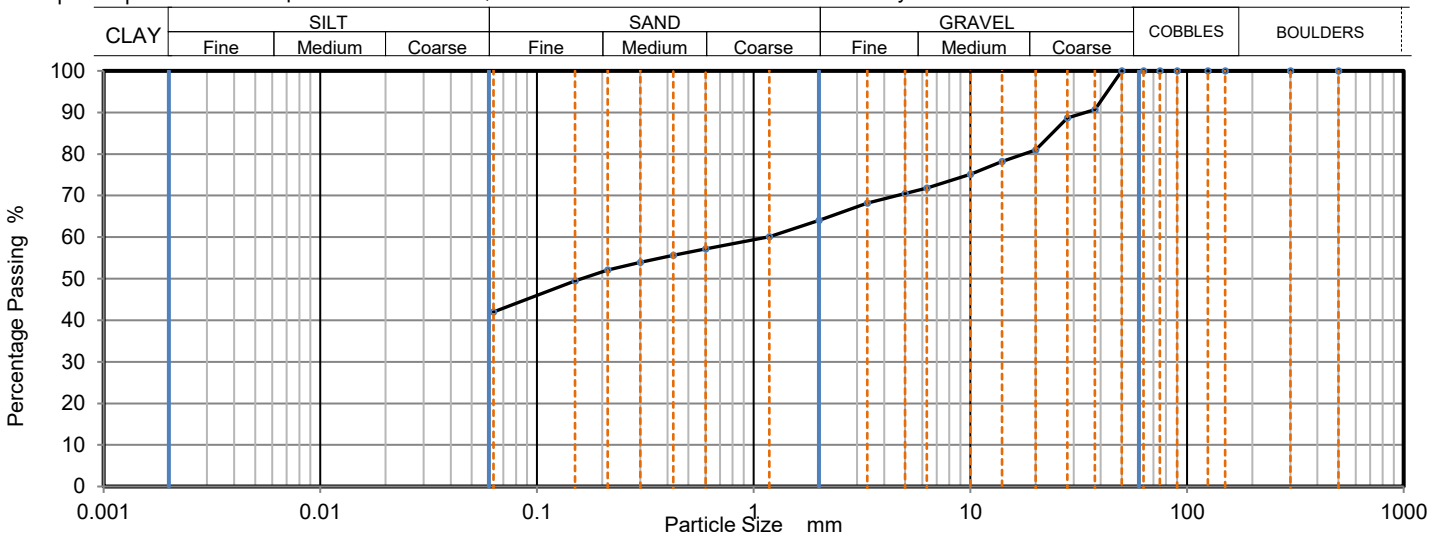
4041

| | | | |
|---|---|---|---|
| Client: | Delta-Simons | Client Reference: | 19-2099.04 |
| Client Address: | Suite C1, Joseph's Well,<br>Hanover Walk, Leeds,<br>LS3 1AB | Job Number: | 21-68356 |
| | | Date Sampled: | 01/04/2021 |
| | | Date Received: | 14/04/2021 |
| Contact: | David Jackson | Date Tested: | 26/04/2021 |
| Site Address: | Brockhampton West, Havant | Sampled By: | Client |

*Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland*

**Test Results:**

| | | | |
|---|---|---|---|
| Laboratory Reference: | 1835089 | Depth Top [m]: | 1.00 |
| Hole No.: | TP113 | Depth Base [m]: | 1.50 |
| Sample Reference: | Not Given | Sample Type: | B |
| Sample Description: | Greyish brown sandy very gravelly CLAY | | |
| Sample Preparation: | Sample was whole tested, oven dried at 106.2 °C and broken down by hand. | | |




| Sieving | | Sedimentation | |
|---|---|---|---|
| Particle Size mm | % Passing | Particle Size mm | % Passing |
| 500 | 100 | | |
| 300 | 100 | | |
| 150 | 100 | | |
| 125 | 100 | | |
| 90 | 100 | | |
| 75 | 100 | | |
| 63 | 100 | | |
| 50 | 100 | | |
| 37.5 | 91 | | |
| 28 | 89 | | |
| 20 | 81 | | |
| 14 | 78 | | |
| 10 | 75 | | |
| 6.3 | 72 | | |
| 5 | 71 | | |
| 3.35 | 68 | | |
| 2 | 64 | | |
| 1.18 | 60 | | |
| 0.6 | 57 | | |
| 0.425 | 56 | | |
| 0.3 | 54 | | |
| 0.212 | 52 | | |
| 0.15 | 50 | | |
| 0.063 | 43 | | |

| Sample Proportions | % dry mass |
|---|---|
| Very coarse | 0 |
| Gravel | 36 |
| Sand | 21 |
| | |
| Fines <0.063mm | 43 |

| Grading Analysis | | |
|---|---|---|
| D100 | mm | 50 |
| D60 | mm | 1.14 |
| D30 | mm | |
| D10 | mm | |
| Uniformity Coefficient | | > 18 |
| Curvature Coefficient | | |

Uniformity Coefficient and Coefficient of Curvature calculated in accordance with BS EN ISO 14688-2: 2004 + A1: 2013

Note: Tested in Accordance with BS1377:Part 2:1990, clause 9.2

Remarks: Re-issue 1: Additional results of PSD and Compaction 2.5 kg (sample 1835079)

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**Signed:**

Monika Janoszek
PL Deputy Head of Geotechnical Section
**for and on behalf of i2 Analytical Ltd**



**Date Reported:** 04/06/2021

**GF 100.20**

# TEST CERTIFICATE

## Particle Size Distribution

Tested in Accordance with: BS 1377-2: 1990

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

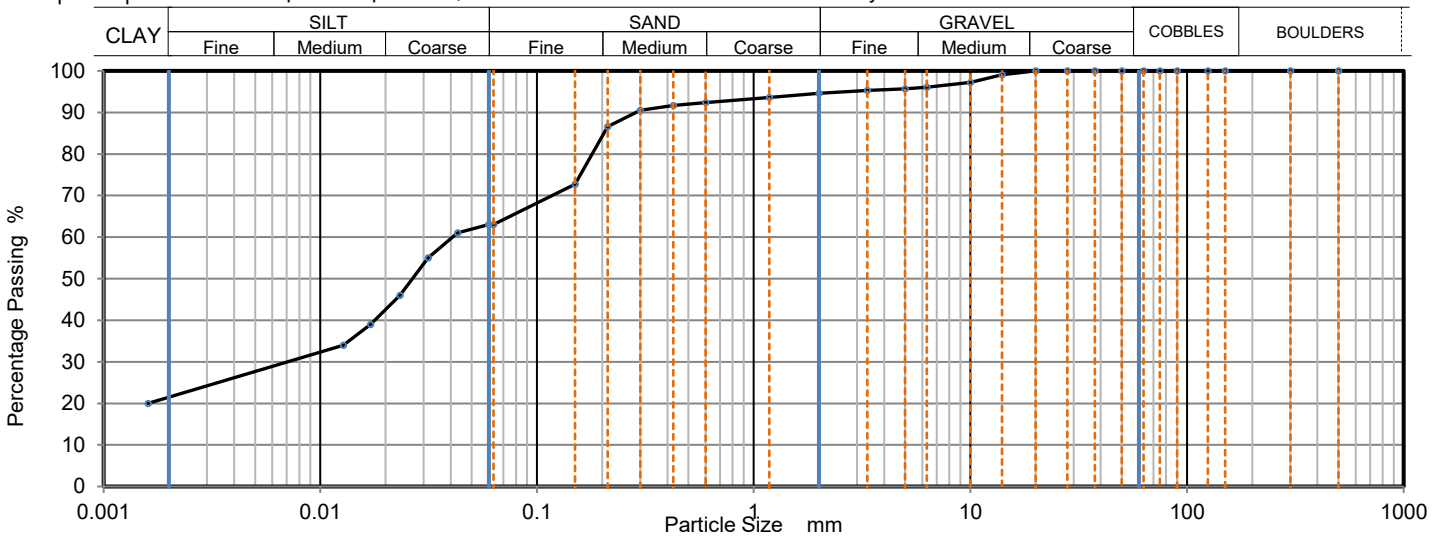
4041

| | | | |
|---|---|---|---|
| Client: | Delta-Simons | Client Reference: | 19-2099.04 |
| Client Address: | Suite C1, Joseph's Well,<br>Hanover Walk, Leeds,<br>LS3 1AB | Job Number: | 21-68356 |
| | | Date Sampled: | 30/03/2021 |
| | | Date Received: | 14/04/2021 |
| Contact: | David Jackson | Date Tested: | 26/04/2021 |
| Site Address: | Brockhampton West, Havant | Sampled By: | Client |

*Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland*

**Test Results:**

| | | | |
|---|---|---|---|
| Laboratory Reference: | 1835090 | Depth Top [m]: | 0.40 |
| Hole No.: | TP114 | Depth Base [m]: | 0.70 |
| Sample Reference: | Not Given | Sample Type: | B |
| Sample Description: | Brown slightly gravelly clayey very sandy SILT | | |
| Sample Preparation: | Sample was quartered, oven dried at 106.1 °C and broken down by hand. | | |




| Sieving | | Sedimentation | |
|---|---|---|---|
| Particle Size mm | % Passing | Particle Size mm | % Passing |
| 500 | 100 | 0.0598 | 63 |
| 300 | 100 | 0.0430 | 61 |
| 150 | 100 | 0.0314 | 55 |
| 125 | 100 | 0.0233 | 46 |
| 90 | 100 | 0.0170 | 39 |
| 75 | 100 | 0.0128 | 34 |
| 63 | 100 | 0.0016 | 20 |
| 50 | 100 | | |
| 37.5 | 100 | | |
| 28 | 100 | | |
| 20 | 100 | | |
| 14 | 99 | | |
| 10 | 97 | | |
| 6.3 | 96 | | |
| 5 | 96 | | |
| 3.35 | 95 | Particle density | (assumed) |
| 2 | 95 | 2.65 | Mg/m3 |
| 1.18 | 94 | | |
| 0.6 | 92 | | |
| 0.425 | 92 | | |
| 0.3 | 91 | | |
| 0.212 | 87 | | |
| 0.15 | 73 | | |
| 0.063 | 63 | | |

| Sample Proportions | % dry mass |
|---|---|
| Very coarse | 0 |
| Gravel | 5 |
| Sand | 31 |
| Silt | 43 |
| Clay | 21 |

| Grading Analysis | | |
|---|---|---|
| D100 | mm | 20 |
| D60 | mm | 0.0417 |
| D30 | mm | 0.00728 |
| D10 | mm | |
| Uniformity Coefficient | | > 26 |
| Curvature Coefficient | | |

Uniformity Coefficient and Coefficient of Curvature calculated in accordance with BS EN ISO 14688-2: 2004 + A1: 2013

Note: Tested in Accordance with BS1377:Part 2:1990, clauses 9.2 and 9.5

Remarks: Re-issue 1: Additional results of PSD and Compaction 2.5 kg (sample 1835079)

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**Signed:**

Monika Janoszek
PL Deputy Head of Geotechnical Section
**for and on behalf of i2 Analytical Ltd**



**Date Reported:** 04/06/2021

**GF 100.20**

# TEST CERTIFICATE

## Particle Size Distribution

Tested in Accordance with: BS 1377-2: 1990

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

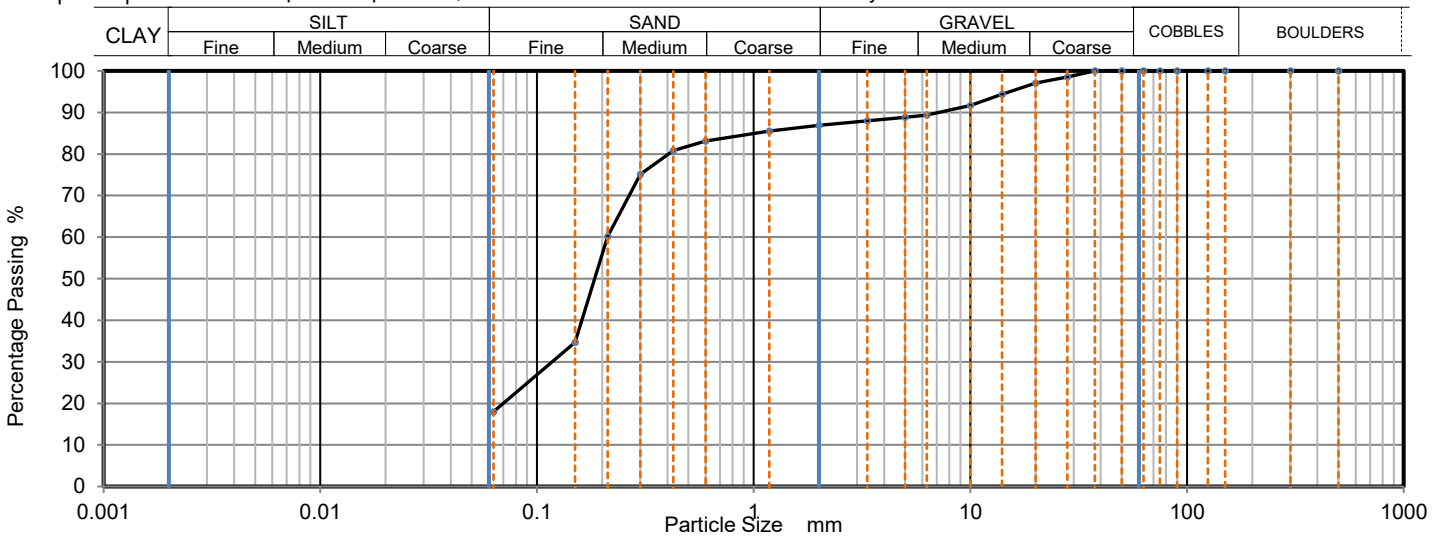
4041

| | | | |
|---|---|---|---|
| Client: | Delta-Simons | Client Reference: | 19-2099.04 |
| Client Address: | Suite C1, Joseph's Well,<br>Hanover Walk, Leeds,<br>LS3 1AB | Job Number: | 21-68356 |
| | | Date Sampled: | 31/03/2021 |
| | | Date Received: | 14/04/2021 |
| Contact: | David Jackson | Date Tested: | 26/04/2021 |
| Site Address: | Brockhampton West, Havant | Sampled By: | Client |

*Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland*

**Test Results:**

| | | | |
|---|---|---|---|
| Laboratory Reference: | 1835091 | Depth Top [m]: | 0.20 |
| Hole No.: | TP115 | Depth Base [m]: | 0.60 |
| Sample Reference: | Not Given | Sample Type: | B |
| Sample Description: | Yellowish brown gravelly clayey SAND | | |
| Sample Preparation: | Sample was quartered, oven dried at 106.0 °C and broken down by hand. | | |




| Sieving | | Sedimentation | |
|---|---|---|---|
| Particle Size mm | % Passing | Particle Size mm | % Passing |
| 500 | 100 | | |
| 300 | 100 | | |
| 150 | 100 | | |
| 125 | 100 | | |
| 90 | 100 | | |
| 75 | 100 | | |
| 63 | 100 | | |
| 50 | 100 | | |
| 37.5 | 100 | | |
| 28 | 99 | | |
| 20 | 97 | | |
| 14 | 94 | | |
| 10 | 92 | | |
| 6.3 | 89 | | |
| 5 | 89 | | |
| 3.35 | 88 | | |
| 2 | 87 | | |
| 1.18 | 86 | | |
| 0.6 | 83 | | |
| 0.425 | 81 | | |
| 0.3 | 75 | | |
| 0.212 | 60 | | |
| 0.15 | 35 | | |
| 0.063 | 18 | | |

| Sample Proportions | % dry mass |
|---|---|
| Very coarse | 0 |
| Gravel | 13 |
| Sand | 69 |
| | |
| Fines <0.063mm | 18 |

| Grading Analysis | | |
|---|---|---|
| D100 | mm | 37.5 |
| D60 | mm | 0.211 |
| D30 | mm | 0.118 |
| D10 | mm | |
| Uniformity Coefficient | | > 3.4 |
| Curvature Coefficient | | |

Uniformity Coefficient and Coefficient of Curvature calculated in accordance with BS EN ISO 14688-2: 2004 + A1: 2013

Note: Tested in Accordance with BS1377:Part 2:1990, clause 9.2

Remarks: Re-issue 1: Additional results of PSD and Compaction 2.5 kg (sample 1835079)

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**Signed:**

Monika Janoszek
PL Deputy Head of Geotechnical Section
**for and on behalf of i2 Analytical Ltd**



**Date Reported:** 04/06/2021

**GF 100.20**

# TEST CERTIFICATE

## Particle Size Distribution

Tested in Accordance with: BS 1377-2: 1990

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

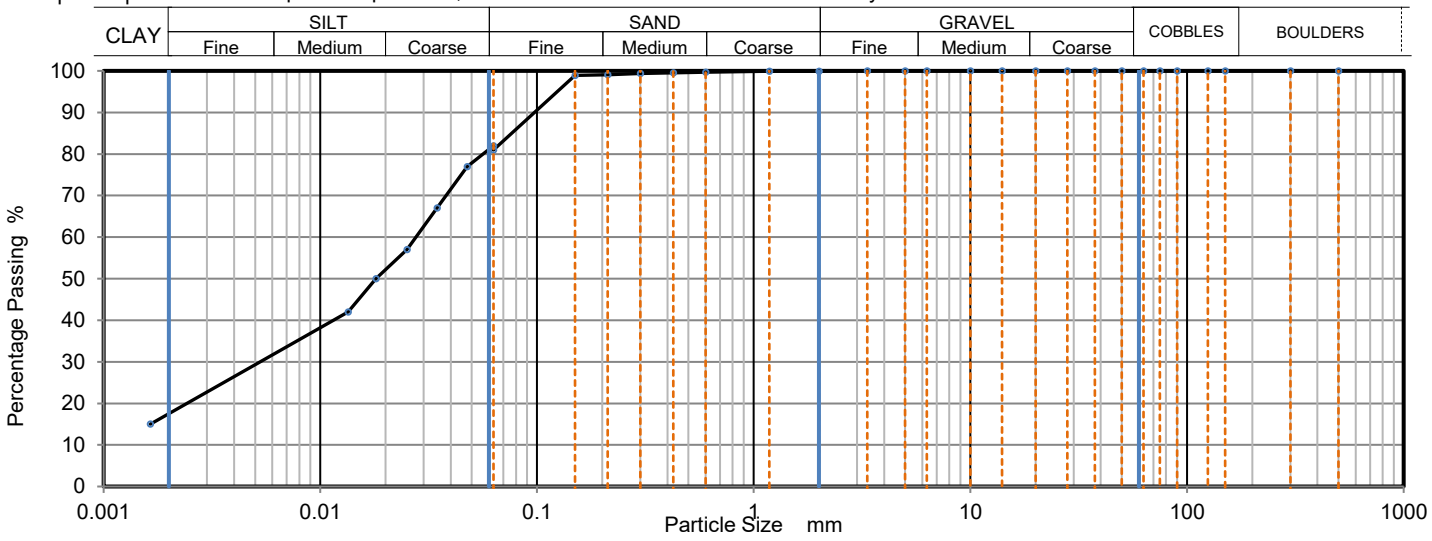
4041

| | | | |
|---|---|---|---|
| Client: | Delta-Simons | Client Reference: | 19-2099.04 |
| Client Address: | Suite C1, Joseph's Well,<br>Hanover Walk, Leeds,<br>LS3 1AB | Job Number: | 21-68356 |
| | | Date Sampled: | 31/03/2021 |
| | | Date Received: | 14/04/2021 |
| Contact: | David Jackson | Date Tested: | 26/04/2021 |
| Site Address: | Brockhampton West, Havant | Sampled By: | Client |

*Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland*

**Test Results:**

| | | | |
|---|---|---|---|
| Laboratory Reference: | 1835092 | Depth Top [m]: | 1.00 |
| Hole No.: | TP115 | Depth Base [m]: | 1.50 |
| Sample Reference: | Not Given | Sample Type: | B |
| Sample Description: | Greyish brown sandy clayey SILT | | |
| Sample Preparation: | Sample was quartered, oven dried at 106.0 °C and broken down by hand. | | |




| Sieving | | Sedimentation | |
|---|---|---|---|
| Particle Size mm | % Passing | Particle Size mm | % Passing |
| 500 | 100 | 0.0630 | 82 |
| 300 | 100 | 0.0475 | 77 |
| 150 | 100 | 0.0346 | 67 |
| 125 | 100 | 0.0251 | 57 |
| 90 | 100 | 0.0181 | 50 |
| 75 | 100 | 0.0134 | 42 |
| 63 | 100 | 0.0016 | 15 |
| 50 | 100 | | |
| 37.5 | 100 | | |
| 28 | 100 | | |
| 20 | 100 | | |
| 14 | 100 | | |
| 10 | 100 | | |
| 6.3 | 100 | | |
| 5 | 100 | | |
| 3.35 | 100 | Particle density | (assumed) |
| 2 | 100 | 2.65 | Mg/m3 |
| 1.18 | 100 | | |
| 0.6 | 100 | | |
| 0.425 | 100 | | |
| 0.3 | 99 | | |
| 0.212 | 99 | | |
| 0.15 | 99 | | |
| 0.063 | 82 | | |

| Sample Proportions | % dry mass |
|---|---|
| Very coarse | 0 |
| Gravel | 0 |
| Sand | 18 |
| Silt | 65 |
| Clay | 17 |

| Grading Analysis | | |
|---|---|---|
| D100 | mm | 5 |
| D60 | mm | 0.0276 |
| D30 | mm | 0.00527 |
| D10 | mm | |
| Uniformity Coefficient | | > 17 |
| Curvature Coefficient | | |

Uniformity Coefficient and Coefficient of Curvature calculated in accordance with BS EN ISO 14688-2: 2004 + A1: 2013

Note: Tested in Accordance with BS1377:Part 2:1990, clauses 9.2 and 9.5

Remarks: Re-issue 1: Additional results of PSD and Compaction 2.5 kg (sample 1835079)

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**Signed:**

Monika Janoszek
PL Deputy Head of Geotechnical Section
**for and on behalf of i2 Analytical Ltd**



**Date Reported:** 04/06/2021

**GF 100.20**

# TEST CERTIFICATE

**Dry Density / Moisture Content**

**Relationship Light Compaction**

Tested in Accordance with:
BS 1377-4: 1990

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

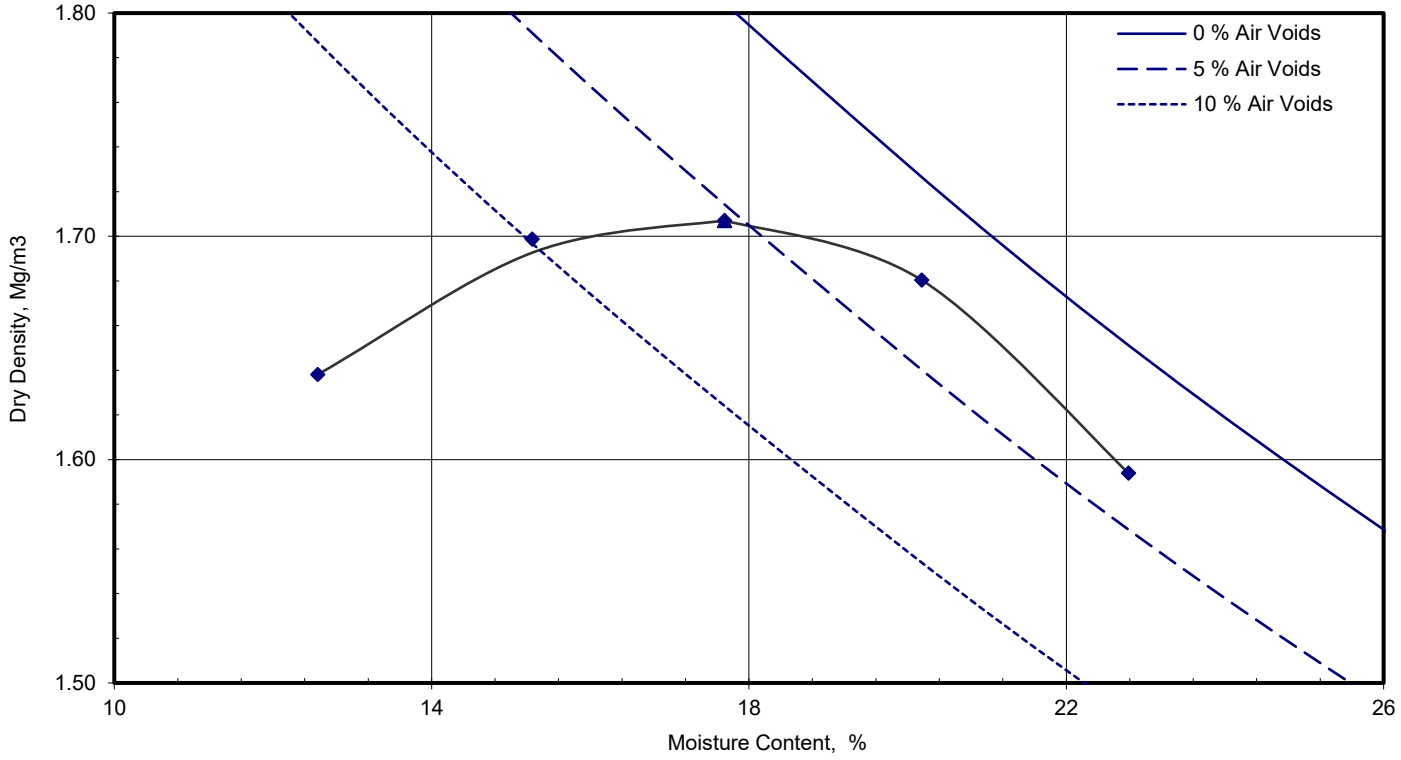
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| | | | |
|---|---|---|---|
| Client: | Delta-Simons | Client Reference: | 19-2099.04 |
| Client Address: | Suite C1, Joseph's Well,<br>Hanover Walk, Leeds,<br>LS3 1AB | Job Number: | 21-68356 |
| | | Date Sampled: | 30/03/2021 |
| | | Date Received: | 14/04/2021 |
| Contact: | David Jackson | Date Tested: | 27/04/2021 |
| Site Address: | Brockhampton West, Havant | Sampled By: | Client |

*Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland*

**Test Results:**

| | | | |
|---|---|---|---|
| Laboratory Reference: | 1835062 | Depth Top [m]: | 0.40 |
| Hole No.: | TP116 | Depth Base [m]: | 0.90 |
| Sample Reference: | Not Given | Sample Type: | B |
| Sample Description: | Brown very gravelly very sandy very clayey SILT with fragments of bricks | | |
| Sample Preparation: | Sample was quartered and broken down by hand. Material used was natural. | | |




| Compaction Point No. | | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|---|
| Moisture Content | % | 13 | 15 | 18 | 20 | 23 |
| Dry Density | Mg/m³ | 1.64 | 1.70 | 1.71 | 1.68 | 1.59 |

| | | |
|---|---|---|
| Mould Type | | CBR |
| Samples Used | | Single sample tested |
| Material Retained on 37.5 mm Sieve | % | 0 |
| Material Retained on 20.0 mm Sieve | % | 4 |
| Particle Density - Assumed | Mg/m³ | 2.65 |
| As received Moisture Content | % | 18 |
| **Maximum Dry Density** | Mg/m³ | **1.71** |

| | | |
|---|---|---|
| **Optimum Moisture Content** | % | **18** |

Note: Tested in Accordance with BS 1377-4: 1990: Clause 3.4 using 2.5kg [light] Rammer

Remarks: Re-issue 1: Additional results of PSD and Compaction 2.5 kg (sample 1835079)

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**Signed:**

Monika Janoszek
PL Deputy Head of Geotechnical Section
**for and on behalf of i2 Analytical Ltd**



**Date Reported:** 04/06/2021

**GF 109.21**

# TEST CERTIFICATE

**Dry Density / Moisture Content**

**Relationship Light Compaction**

Tested in Accordance with:
BS 1377-4: 1990

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

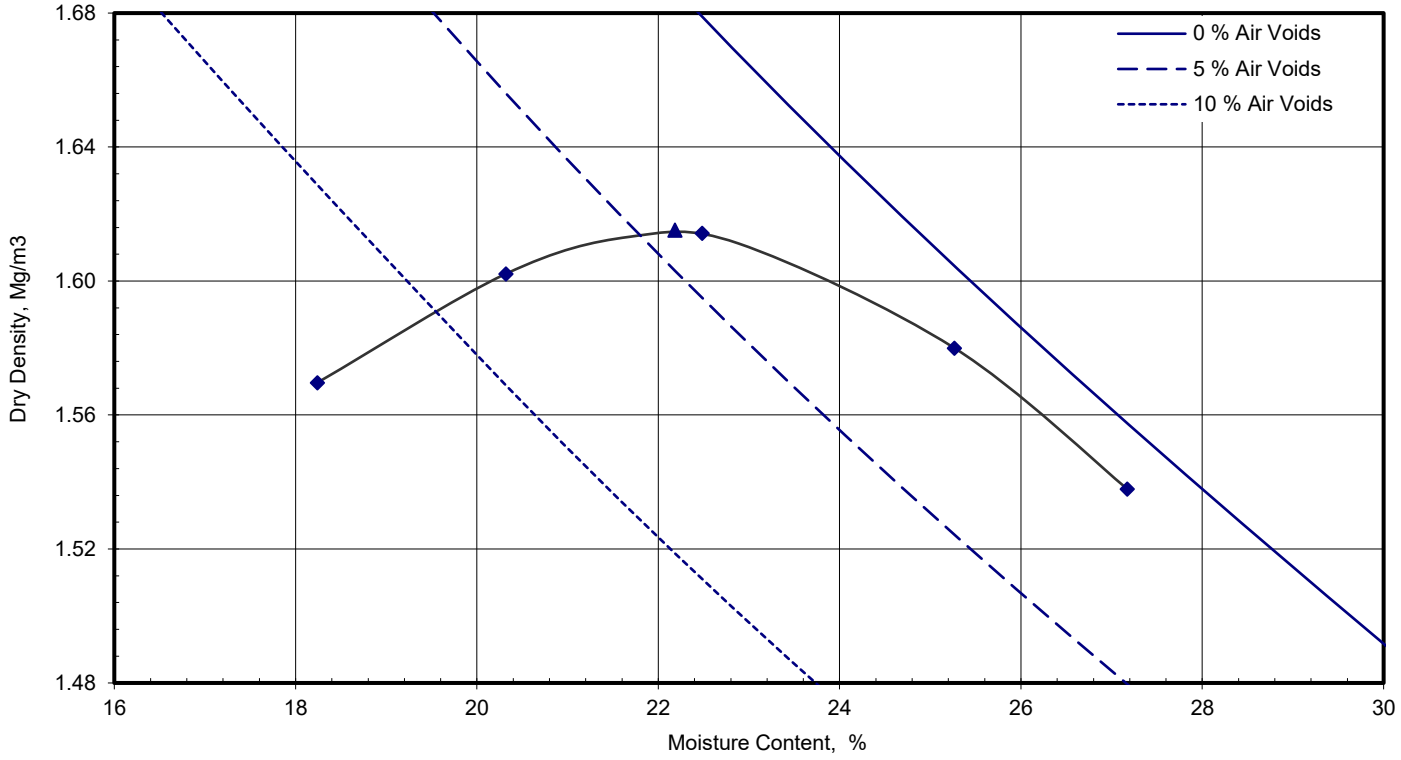
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| | | | |
|---|---|---|---|
| Client: | Delta-Simons | Client Reference: | 19-2099.04 |
| Client Address: | Suite C1, Joseph's Well,<br>Hanover Walk, Leeds,<br>LS3 1AB | Job Number: | 21-68356 |
| | | Date Sampled: | 30/03/2021 |
| | | Date Received: | 14/04/2021 |
| Contact: | David Jackson | Date Tested: | 27/04/2021 |
| Site Address: | Brockhampton West, Havant | Sampled By: | Client |

*Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland*

**Test Results:**

| | | | |
|---|---|---|---|
| Laboratory Reference: | 1835063 | Depth Top [m]: | 1.00 |
| Hole No.: | TP116 | Depth Base [m]: | 1.50 |
| Sample Reference: | Not Given | Sample Type: | B |
| Sample Description: | Brown gravelly sandy clayey SILT | | |
| Sample Preparation: | Sample was quartered and broken down by hand. Material used was natural. | | |




| Compaction Point No. | | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|---|
| Moisture Content | % | 18 | 20 | 22 | 25 | 27 |
| Dry Density | Mg/m³ | 1.57 | 1.60 | 1.61 | 1.58 | 1.54 |

| | | |
|---|---|---|
| Mould Type | | CBR |
| Samples Used | | Single sample tested |
| Material Retained on 37.5 mm Sieve | % | 0 |
| Material Retained on 20.0 mm Sieve | % | 4 |
| Particle Density - Assumed | Mg/m³ | 2.70 |
| As received Moisture Content | % | 27 |
| **Maximum Dry Density** | Mg/m³ | **1.62** |

| | | |
|---|---|---|
| **Optimum Moisture Content** | % | **22** |

Note: Tested in Accordance with BS 1377-4: 1990: Clause 3.4 using 2.5kg [light] Rammer

Remarks: Re-issue 1: Additional results of PSD and Compaction 2.5 kg (sample 1835079)

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**Signed:**

Monika Janoszek
PL Deputy Head of Geotechnical Section
**for and on behalf of i2 Analytical Ltd**



**Date Reported:** 04/06/2021

**GF 109.21**

# TEST CERTIFICATE

**Dry Density / Moisture Content**

**Relationship Light Compaction**

Tested in Accordance with:
BS 1377-4: 1990

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

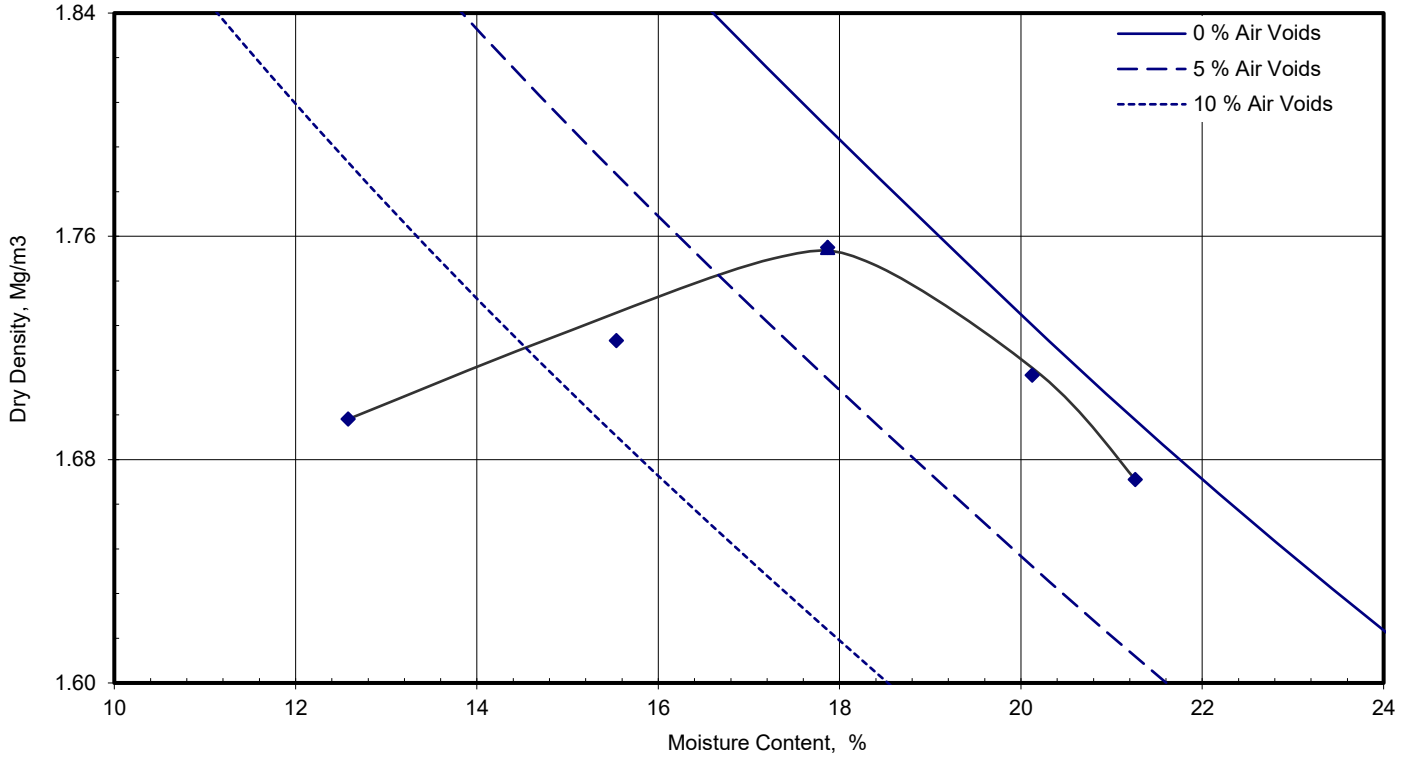
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| | | | |
|---|---|---|---|
| Client: | Delta-Simons | Client Reference: | 19-2099.04 |
| Client Address: | Suite C1, Joseph's Well,<br>Hanover Walk, Leeds,<br>LS3 1AB | Job Number: | 21-68356 |
| | | Date Sampled: | 01/04/2021 |
| | | Date Received: | 14/04/2021 |
| Contact: | David Jackson | Date Tested: | 28/04/2021 |
| Site Address: | Brockhampton West, Havant | Sampled By: | Client |

*Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland*

**Test Results:**

| | | | |
|---|---|---|---|
| Laboratory Reference: | 1835067 | Depth Top [m]: | 0.30 |
| Hole No.: | TP119 | Depth Base [m]: | 0.70 |
| Sample Reference: | Not Given | Sample Type: | B |
| Sample Description: | Greyish brown very gravelly very sandy ery clayey SILT with fragments of chalk | | |
| Sample Preparation: | Sample was quartered and broken down by hand. Material used was natural. | | |




| Compaction Point No. | | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|---|
| Moisture Content | % | 13 | 16 | 18 | 20 | 21 |
| Dry Density | Mg/m³ | 1.69 | 1.72 | 1.76 | 1.71 | 1.67 |

| | | |
|---|---|---|
| Mould Type | | CBR |
| Samples Used | | Single sample tested |
| Material Retained on 37.5 mm Sieve | % | 0 |
| Material Retained on 20.0 mm Sieve | % | 4 |
| Particle Density - Assumed | Mg/m³ | 2.65 |
| As received Moisture Content | % | 22 |
| **Maximum Dry Density** | Mg/m³ | **1.76** |

| | | |
|---|---|---|
| **Optimum Moisture Content** | % | **18** |

Note: Tested in Accordance with BS 1377-4: 1990: Clause 3.4 using 2.5kg [light] Rammer

Remarks: Re-issue 1: Additional results of PSD and Compaction 2.5 kg (sample 1835079)

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**Signed:**

Monika Janoszek
PL Deputy Head of Geotechnical Section
**for and on behalf of i2 Analytical Ltd**



**Date Reported:** 04/06/2021

**GF 109.21**

# TEST CERTIFICATE

**Dry Density / Moisture Content**

**Relationship Light Compaction**

Tested in Accordance with:
BS 1377-4: 1990

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

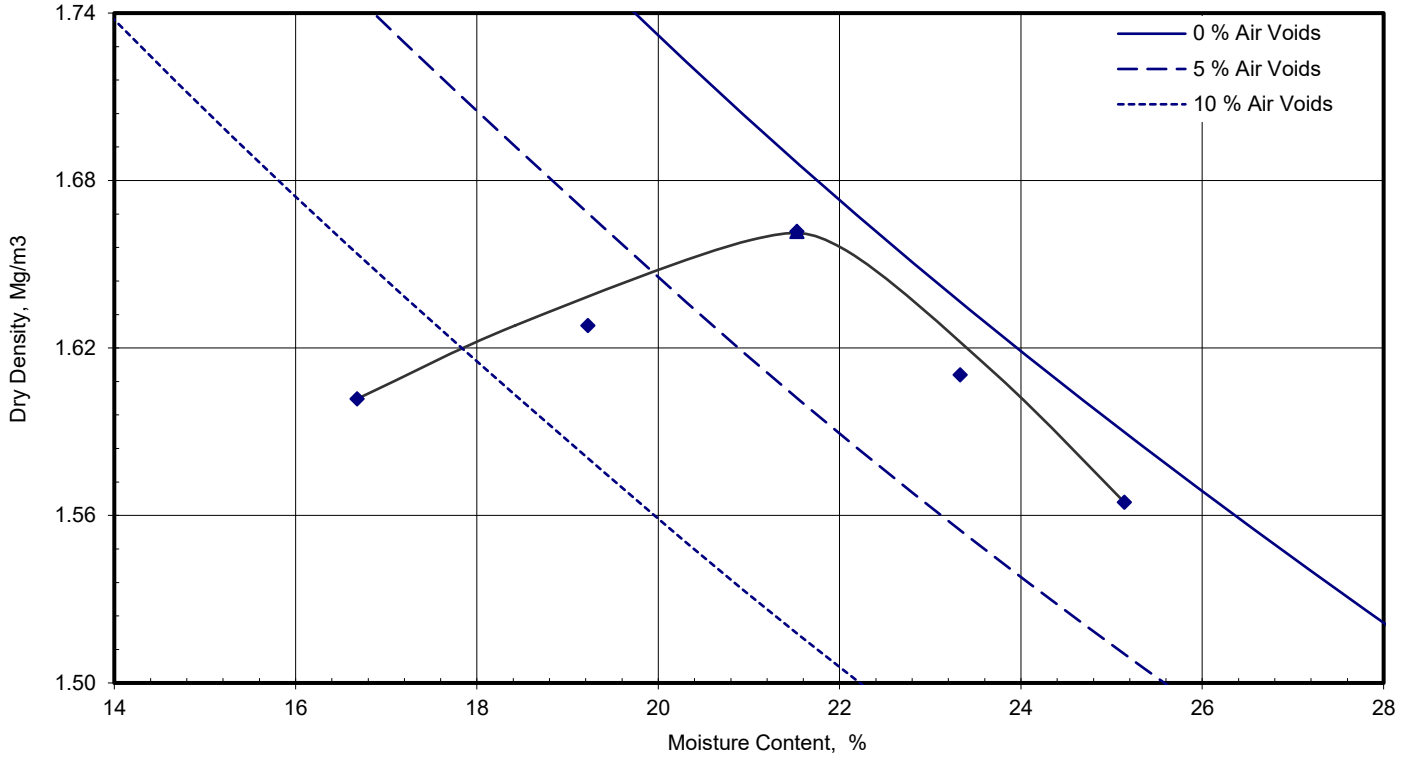
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| | | | |
|---|---|---|---|
| Client: | Delta-Simons | Client Reference: | 19-2099.04 |
| Client Address: | Suite C1, Joseph's Well,<br>Hanover Walk, Leeds,<br>LS3 1AB | Job Number: | 21-68356 |
| | | Date Sampled: | 29/03/2021 |
| | | Date Received: | 14/04/2021 |
| Contact: | David Jackson | Date Tested: | 27/04/2021 |
| Site Address: | Brockhampton West, Havant | Sampled By: | Client |

*Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland*

**Test Results:**

| | | | |
|---|---|---|---|
| Laboratory Reference: | 1835070 | Depth Top [m]: | 1.00 |
| Hole No.: | TP101 | Depth Base [m]: | 1.50 |
| Sample Reference: | Not Given | Sample Type: | B |
| Sample Description: | Greyish brown gravelly sandy very clayey SILT | | |
| Sample Preparation: | Sample was quartered and broken down by hand. Material used was natural. | | |




| Compaction Point No. | | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|---|
| Moisture Content | % | 17 | 19 | 22 | 23 | 25 |
| Dry Density | Mg/m³ | 1.60 | 1.63 | 1.66 | 1.61 | 1.56 |

| | | |
|---|---|---|
| Mould Type | | CBR |
| Samples Used | | Single sample tested |
| Material Retained on 37.5 mm Sieve | % | 0 |
| Material Retained on 20.0 mm Sieve | % | 1 |
| Particle Density - Assumed | Mg/m³ | 2.65 |
| As received Moisture Content | % | 21 |
| **Maximum Dry Density** | Mg/m³ | **1.66** |

| | | |
|---|---|---|
| **Optimum Moisture Content** | % | **22** |

Note: Tested in Accordance with BS 1377-4: 1990: Clause 3.4 using 2.5kg [light] Rammer

Remarks: Re-issue 1: Additional results of PSD and Compaction 2.5 kg (sample 1835079)

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**Signed:**

Monika Janoszek
PL Deputy Head of Geotechnical Section
**for and on behalf of i2 Analytical Ltd**



**Date Reported:** 04/06/2021

**GF 109.21**

# TEST CERTIFICATE

**Dry Density / Moisture Content**

**Relationship Light Compaction**

Tested in Accordance with:
BS 1377-4: 1990

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

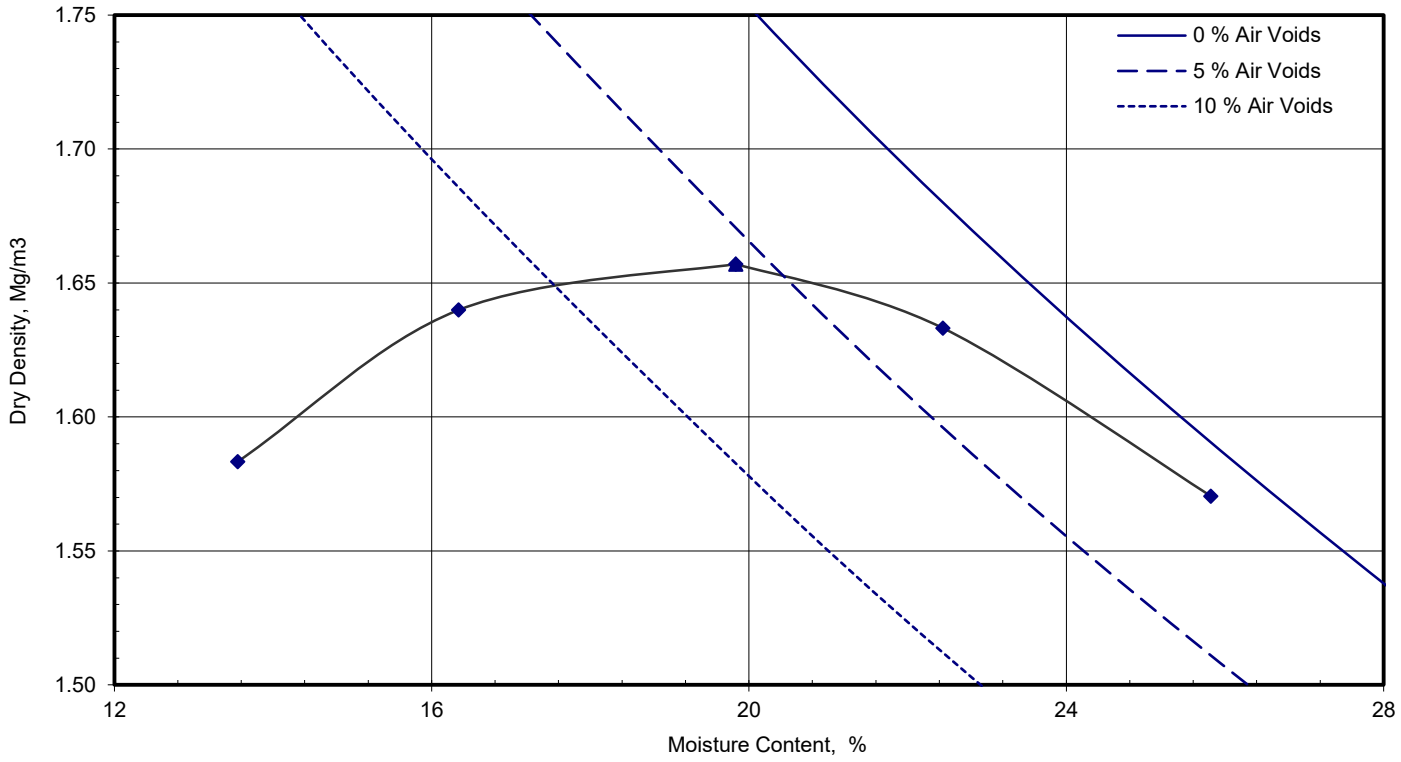
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| | | | |
|---|---|---|---|
| Client: | Delta-Simons | Client Reference: | 19-2099.04 |
| Client Address: | Suite C1, Joseph's Well,<br>Hanover Walk, Leeds,<br>LS3 1AB | Job Number: | 21-68356 |
| | | Date Sampled: | 29/03/2021 |
| | | Date Received: | 14/04/2021 |
| Contact: | David Jackson | Date Tested: | 27/04/2021 |
| Site Address: | Brockhampton West, Havant | Sampled By: | Client |

*Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland*

**Test Results:**

| | | | |
|---|---|---|---|
| Laboratory Reference: | 1835071 | Depth Top [m]: | 0.30 |
| Hole No.: | TP102 | Depth Base [m]: | 0.50 |
| Sample Reference: | Not Given | Sample Type: | B |
| Sample Description: | Brown very clayey sandy slightly gravelly SILT | | |
| Sample Preparation: | Sample was quartered and broken down by hand. Material used was natural. | | |




| Compaction Point No. | | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|---|
| Moisture Content | % | 14 | 16 | 20 | 22 | 26 |
| Dry Density | Mg/m³ | 1.58 | 1.64 | 1.66 | 1.63 | 1.57 |

| | | |
|---|---|---|
| Mould Type | | CBR |
| Samples Used | | Single sample tested |
| Material Retained on 37.5 mm Sieve | % | 0 |
| Material Retained on 20.0 mm Sieve | % | 0 |
| Particle Density - Assumed | Mg/m³ | 2.70 |
| As received Moisture Content | % | 26 |
| **Maximum Dry Density** | Mg/m³ | **1.66** |

| | | |
|---|---|---|
| **Optimum Moisture Content** | % | **20** |

Note: Tested in Accordance with BS 1377-4: 1990: Clause 3.4 using 2.5kg [light] Rammer

Remarks: Re-issue 1: Additional results of PSD and Compaction 2.5 kg (sample 1835079)

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**Signed:**

Monika Janoszek
PL Deputy Head of Geotechnical Section
**for and on behalf of i2 Analytical Ltd**



**Date Reported:** 04/06/2021

**GF 109.21**

# TEST CERTIFICATE

**Dry Density / Moisture Content**

**Relationship Light Compaction**

Tested in Accordance with:
BS 1377-4: 1990

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

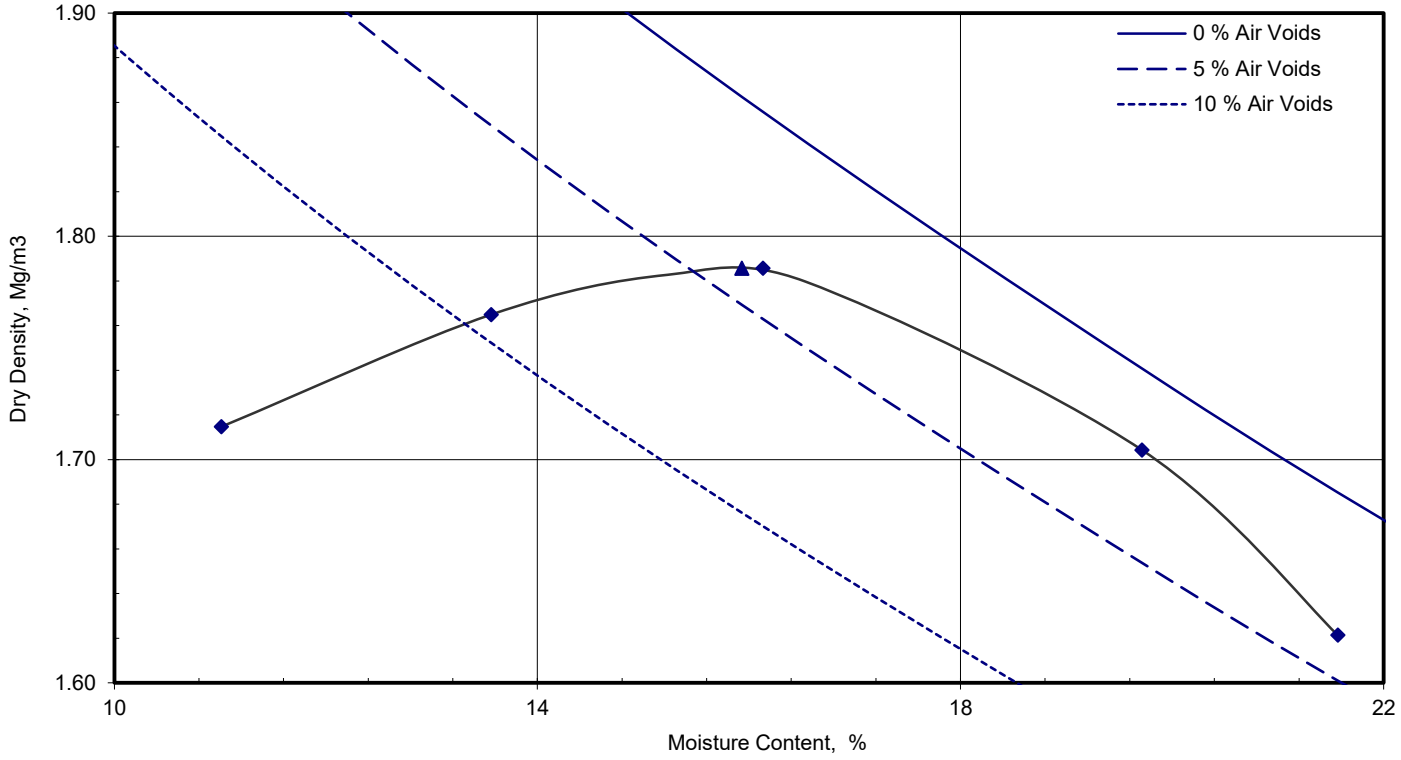
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| | | | |
|---|---|---|---|
| Client: | Delta-Simons | Client Reference: | 19-2099.04 |
| Client Address: | Suite C1, Joseph's Well,<br>Hanover Walk, Leeds,<br>LS3 1AB | Job Number: | 21-68356 |
| | | Date Sampled: | 29/03/2021 |
| | | Date Received: | 14/04/2021 |
| Contact: | David Jackson | Date Tested: | 02/06/2021 |
| Site Address: | Brockhampton West, Havant | Sampled By: | Client |

*Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland*

**Test Results:**

| | | | |
|---|---|---|---|
| Laboratory Reference: | 1835079 | Depth Top [m]: | 0.50 |
| Hole No.: | TP106 | Depth Base [m]: | 0.70 |
| Sample Reference: | Not Given | Sample Type: | B |
| Sample Description: | Greyish brown clayey sandy GRAVEL | | |
| Sample Preparation: | Sample was quartered and broken down by hand. Material used was natural. | | |




| Compaction Point No. | | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|---|
| Moisture Content | % | 11 | 14 | 16 | 20 | 22 |
| Dry Density | Mg/m³ | 1.71 | 1.76 | 1.79 | 1.70 | 1.62 |

| | | |
|---|---|---|
| Mould Type | | CBR |
| Samples Used | | Single sample tested |
| Material Retained on 37.5 mm Sieve | % | 40 |
| Material Retained on 20.0 mm Sieve | % | 53 |
| Particle Density - Assumed | Mg/m³ | 2.65 |
| As received Moisture Content | % | 11 |
| **Maximum Dry Density** | Mg/m³ | **1.79** |

| | | |
|---|---|---|
| **Optimum Moisture Content** | % | **16** |

Note: Tested in Accordance with BS 1377-4: 1990: Clause 3.4 using 2.5kg [light] Rammer

Remarks: Zone X - test carried out as per client request
Re-issue 1: Additional results of PSD and Compaction 2.5 kg (sample 1835079)

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**Signed:**

Monika Janoszek
PL Deputy Head of Geotechnical Section
**for and on behalf of i2 Analytical Ltd**



**Date Reported:** 04/06/2021

**GF 109.21**

# TEST CERTIFICATE

**Dry Density / Moisture Content**

**Relationship Light Compaction**

Tested in Accordance with:
BS 1377-4: 1990

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

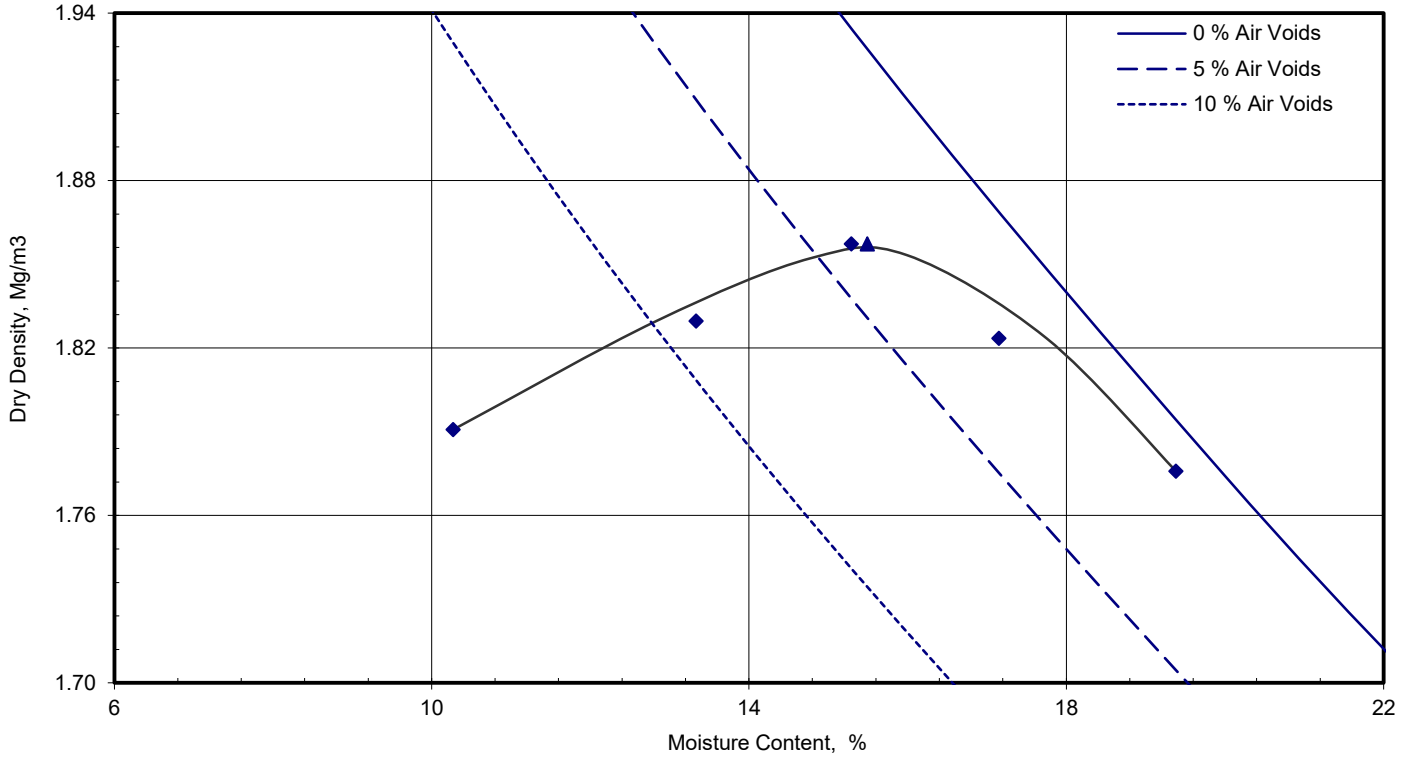
4041

| | | | |
|---|---|---|---|
| Client: | Delta-Simons | Client Reference: | 19-2099.04 |
| Client Address: | Suite C1, Joseph's Well,<br>Hanover Walk, Leeds,<br>LS3 1AB | Job Number: | 21-68356 |
| | | Date Sampled: | 30/03/2021 |
| | | Date Received: | 14/04/2021 |
| Contact: | David Jackson | Date Tested: | 28/04/2021 |
| Site Address: | Brockhampton West, Havant | Sampled By: | Client |

*Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland*

**Test Results:**

| | | | |
|---|---|---|---|
| Laboratory Reference: | 1835081 | Depth Top [m]: | 0.50 |
| Hole No.: | TP108 | Depth Base [m]: | 1.00 |
| Sample Reference: | Not Given | Sample Type: | B |
| Sample Description: | Greyish brown very gravelly very sandy CLAY and SILT | | |
| Sample Preparation: | Sample was quartered and broken down by hand. Material used was natural. | | |




| Compaction Point No. | | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|---|
| Moisture Content | % | 10 | 13 | 15 | 17 | 19 |
| Dry Density | Mg/m³ | 1.79 | 1.83 | 1.86 | 1.82 | 1.78 |

| | | |
|---|---|---|
| Mould Type | | CBR |
| Samples Used | | Single sample tested |
| Material Retained on 37.5 mm Sieve | % | 0 |
| Material Retained on 20.0 mm Sieve | % | 2 |
| Particle Density - Assumed | Mg/m³ | 2.75 |
| As received Moisture Content | % | 19 |
| **Maximum Dry Density** | Mg/m³ | **1.86** |

| | | |
|---|---|---|
| **Optimum Moisture Content** | % | **15** |

Note: Tested in Accordance with BS 1377-4: 1990: Clause 3.4 using 2.5kg [light] Rammer

Remarks: Re-issue 1: Additional results of PSD and Compaction 2.5 kg (sample 1835079)

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**Signed:**

Monika Janoszek
PL Deputy Head of Geotechnical Section
**for and on behalf of i2 Analytical Ltd**



**Date Reported:** 04/06/2021

**GF 109.21**

# TEST CERTIFICATE

**Dry Density / Moisture Content**

**Relationship Light Compaction**

Tested in Accordance with:
BS 1377-4: 1990

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

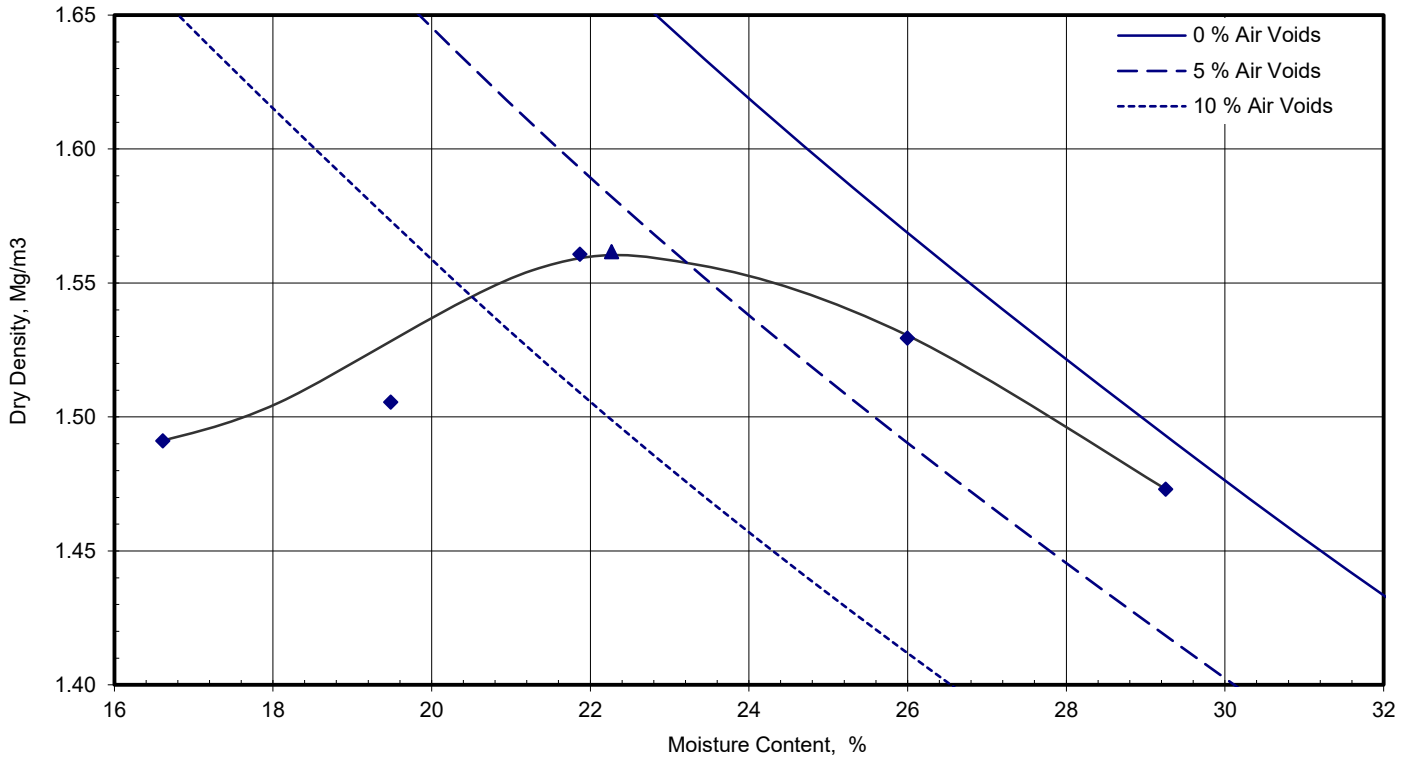
4041

| | | | |
|---|---|---|---|
| Client: | Delta-Simons | Client Reference: | 19-2099.04 |
| Client Address: | Suite C1, Joseph's Well,<br>Hanover Walk, Leeds,<br>LS3 1AB | Job Number: | 21-68356 |
| | | Date Sampled: | 31/03/2021 |
| | | Date Received: | 14/04/2021 |
| Contact: | David Jackson | Date Tested: | 27/04/2021 |
| Site Address: | Brockhampton West, Havant | Sampled By: | Client |

*Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland*

## Test Results:

| | | | |
|---|---|---|---|
| Laboratory Reference: | 1835085 | Depth Top [m]: | 2.80 |
| Hole No.: | TP110 | Depth Base [m]: | 3.20 |
| Sample Reference: | Not Given | Sample Type: | B |
| Sample Description: | Brown slightly gravelly very clayey SILT and SAND | | |
| Sample Preparation: | Sample was quartered and broken down by hand. Material used was natural. | | |




| Compaction Point No. | | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|---|
| Moisture Content | % | 17 | 19 | 22 | 26 | 29 |
| Dry Density | Mg/m³ | 1.49 | 1.51 | 1.56 | 1.53 | 1.47 |

| | | |
|---|---|---|
| Mould Type | | CBR |
| Samples Used | | Single sample tested |
| Material Retained on 37.5 mm Sieve | % | 0 |
| Material Retained on 20.0 mm Sieve | % | 3 |
| Particle Density - Assumed | Mg/m³ | 2.65 |
| As received Moisture Content | % | 28 |
| **Maximum Dry Density** | Mg/m³ | **1.56** |

| | | |
|---|---|---|
| **Optimum Moisture Content** | % | **22** |

Note: Tested in Accordance with BS 1377-4: 1990: Clause 3.4 using 2.5kg [light] Rammer

Remarks: Re-issue 1: Additional results of PSD and Compaction 2.5 kg (sample 1835079)

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**Signed:**

Monika Janoszek
PL Deputy Head of Geotechnical Section
**for and on behalf of i2 Analytical Ltd**



**Date Reported:** 04/06/2021

**GF 109.21**

# TEST CERTIFICATE

**Dry Density / Moisture Content**

**Relationship Light Compaction**

Tested in Accordance with:
BS 1377-4: 1990

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

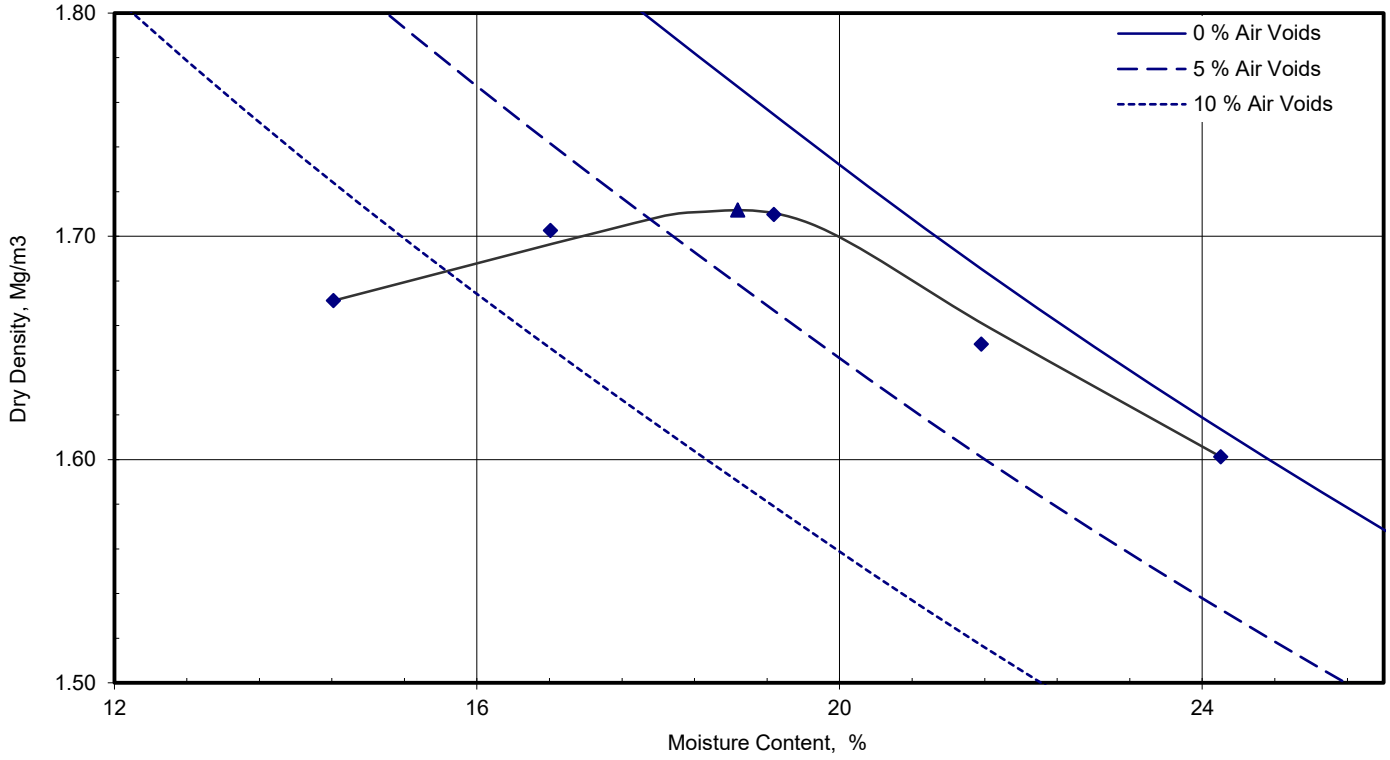
4041

| | | | |
|---|---|---|---|
| Client: | Delta-Simons | Client Reference: | 19-2099.04 |
| Client Address: | Suite C1, Joseph's Well,<br>Hanover Walk, Leeds,<br>LS3 1AB | Job Number: | 21-68356 |
| | | Date Sampled: | 30/03/2021 |
| | | Date Received: | 14/04/2021 |
| Contact: | David Jackson | Date Tested: | 28/04/2021 |
| Site Address: | Brockhampton West, Havant | Sampled By: | Client |

*Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland*

**Test Results:**

| | | | |
|---|---|---|---|
| Laboratory Reference: | 1835086 | Depth Top [m]: | 0.50 |
| Hole No.: | TP111 | Depth Base [m]: | 1.00 |
| Sample Reference: | Not Given | Sample Type: | B |
| Sample Description: | Brown gravelly very sandy very clayey SILT | | |
| Sample Preparation: | | | |




| Compaction Point No. | | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|---|
| Moisture Content | % | 14 | 17 | 19 | 22 | 24 |
| Dry Density | Mg/m³ | 1.67 | 1.70 | 1.71 | 1.65 | 1.60 |

| | | |
|---|---|---|
| Mould Type | | CBR |
| Samples Used | | Single sample tested |
| Material Retained on 37.5 mm Sieve | % | 0 |
| Material Retained on 20.0 mm Sieve | % | 0 |
| Particle Density - Assumed | Mg/m³ | 2.65 |
| As received Moisture Content | % | 26 |
| **Maximum Dry Density** | Mg/m³ | **1.71** |

| | | |
|---|---|---|
| **Optimum Moisture Content** | % | **19** |

Note: Tested in Accordance with BS 1377-4: 1990: Clause 3.4 using 2.5kg [light] Rammer

Remarks: Re-issue 1: Additional results of PSD and Compaction 2.5 kg (sample 1835079)

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**Signed:**

Monika Janoszek
PL Deputy Head of Geotechnical Section
**for and on behalf of i2 Analytical Ltd**



**Date Reported:** 04/06/2021

**GF 109.21**

# TEST CERTIFICATE

**Dry Density / Moisture Content**

**Relationship Light Compaction**

Tested in Accordance with:
BS 1377-4: 1990

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

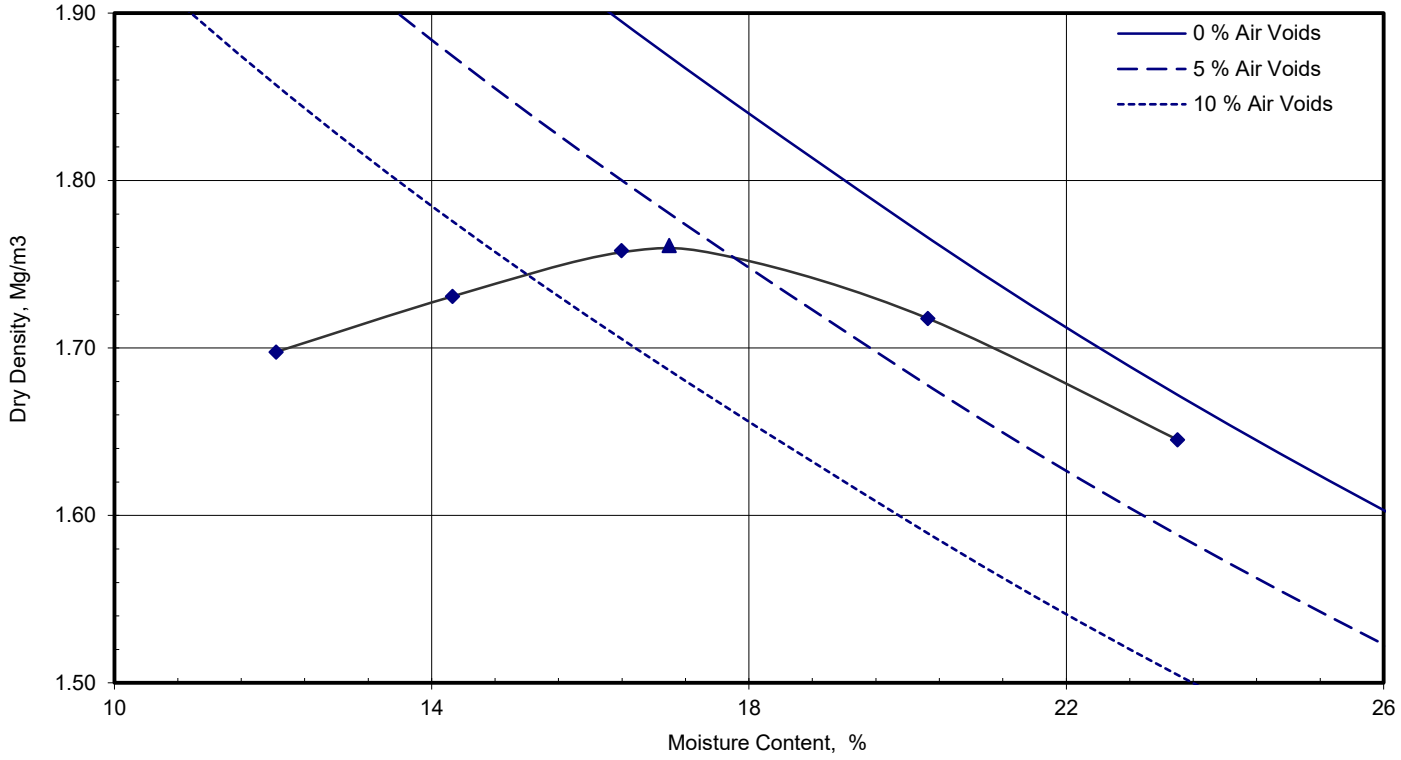
4041

| | | | |
|---|---|---|---|
| Client: | Delta-Simons | Client Reference: | 19-2099.04 |
| Client Address: | Suite C1, Joseph's Well,<br>Hanover Walk, Leeds,<br>LS3 1AB | Job Number: | 21-68356 |
| | | Date Sampled: | 30/03/2021 |
| | | Date Received: | 14/04/2021 |
| Contact: | David Jackson | Date Tested: | 28/04/2021 |
| Site Address: | Brockhampton West, Havant | Sampled By: | Client |

*Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland*

**Test Results:**

| | | | |
|---|---|---|---|
| Laboratory Reference: | 1835087 | Depth Top [m]: | 3.80 |
| Hole No.: | TP111 | Depth Base [m]: | 4.00 |
| Sample Reference: | Not Given | Sample Type: | B |
| Sample Description: | Brown slightly sandy very clayey SILT | | |
| Sample Preparation: | Sample was quartered and broken down by hand. Material used was natural. | | |




| Compaction Point No. | | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|---|
| Moisture Content | % | 12 | 14 | 16 | 20 | 23 |
| Dry Density | Mg/m³ | 1.70 | 1.73 | 1.76 | 1.72 | 1.65 |

| | | |
|---|---|---|
| Mould Type | | CBR |
| Samples Used | | Single sample tested |
| Material Retained on 37.5 mm Sieve | % | 0 |
| Material Retained on 20.0 mm Sieve | % | 0 |
| Particle Density - Assumed | Mg/m³ | 2.75 |
| As received Moisture Content | % | 21 |
| **Maximum Dry Density** | Mg/m³ | **1.76** |

| | | |
|---|---|---|
| **Optimum Moisture Content** | % | **17** |

Note: Tested in Accordance with BS 1377-4: 1990: Clause 3.4 using 2.5kg [light] Rammer

Remarks: Re-issue 1: Additional results of PSD and Compaction 2.5 kg (sample 1835079)

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Monika Janoszek
PL Deputy Head of Geotechnical Section
**for and on behalf of i2 Analytical Ltd**



**Date Reported:** 04/06/2021

**GF 109.21**

# TEST CERTIFICATE

**Dry Density / Moisture Content**

**Relationship Light Compaction**

Tested in Accordance with:
BS 1377-4: 1990

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

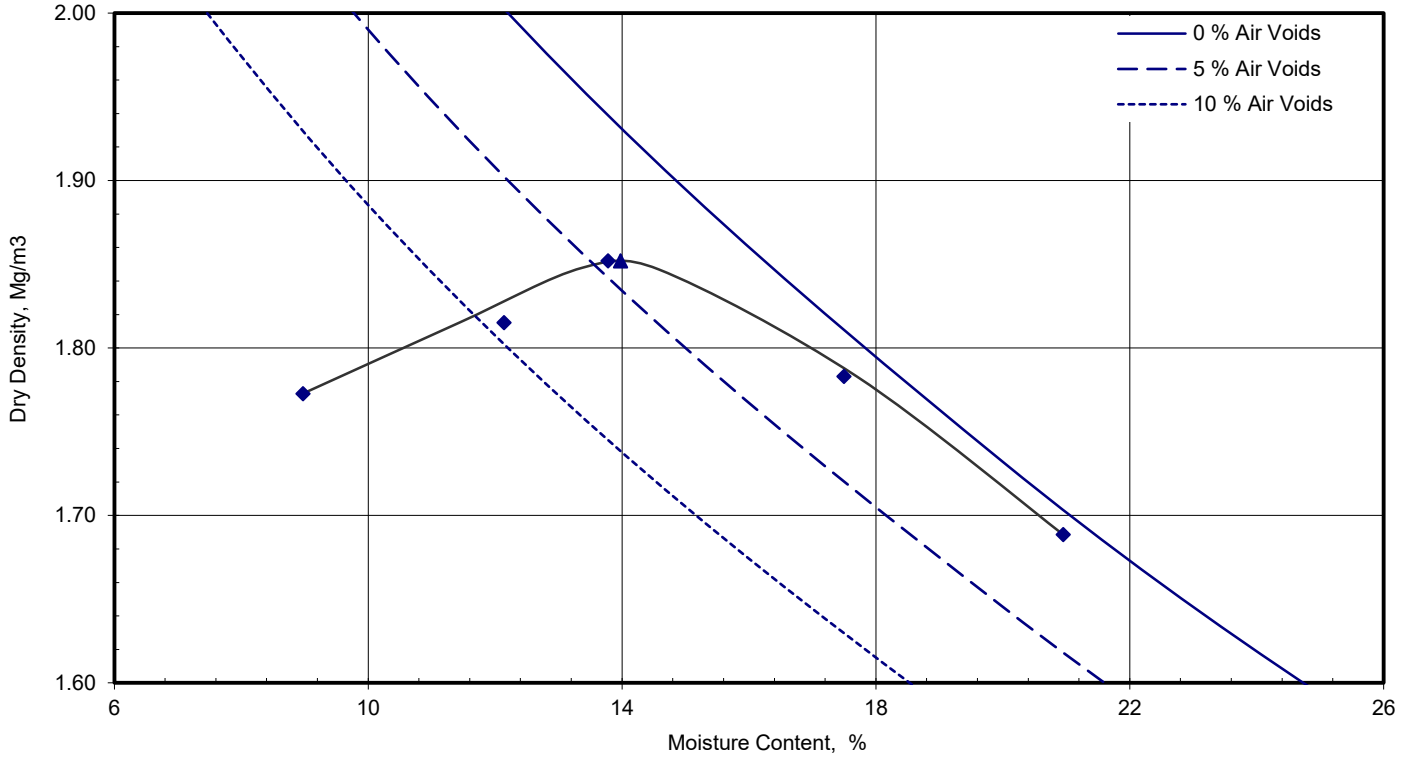
4041

| | | | |
|---|---|---|---|
| Client: | Delta-Simons | Client Reference: | 19-2099.04 |
| Client Address: | Suite C1, Joseph's Well,<br>Hanover Walk, Leeds,<br>LS3 1AB | Job Number: | 21-68356 |
| | | Date Sampled: | 31/03/2021 |
| | | Date Received: | 14/04/2021 |
| Contact: | David Jackson | Date Tested: | 28/04/2021 |
| Site Address: | Brockhampton West, Havant | Sampled By: | Client |

*Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland*

**Test Results:**

| | | | |
|---|---|---|---|
| Laboratory Reference: | 1835088 | Depth Top [m]: | 0.90 |
| Hole No.: | TP112 | Depth Base [m]: | 1.20 |
| Sample Reference: | Not Given | Sample Type: | B |
| Sample Description: | Mottled brown clayey very gravelly very sandy SILT | | |
| Sample Preparation: | Sample was quartered and broken down by hand. Material used was natural. | | |




| Compaction Point No. | | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|---|
| Moisture Content | % | 9.0 | 12 | 14 | 17 | 21 |
| Dry Density | Mg/m³ | 1.77 | 1.82 | 1.85 | 1.78 | 1.69 |

| | | |
|---|---|---|
| Mould Type | | CBR |
| Samples Used | | Single sample tested |
| Material Retained on 37.5 mm Sieve | % | 0 |
| Material Retained on 20.0 mm Sieve | % | 5 |
| Particle Density - Assumed | Mg/m³ | 2.65 |
| As received Moisture Content | % | 21 |
| **Maximum Dry Density** | Mg/m³ | **1.85** |

| | | |
|---|---|---|
| **Optimum Moisture Content** | % | **14** |

Note: Tested in Accordance with BS 1377-4: 1990: Clause 3.4 using 2.5kg [light] Rammer

Remarks: Re-issue 1: Additional results of PSD and Compaction 2.5 kg (sample 1835079)

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**Signed:**

Monika Janoszek
PL Deputy Head of Geotechnical Section
**for and on behalf of i2 Analytical Ltd**



**Date Reported:** 04/06/2021

**GF 109.21**

# TEST CERTIFICATE

**Dry Density / Moisture Content**

**Relationship Light Compaction**

Tested in Accordance with:
BS 1377-4: 1990

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

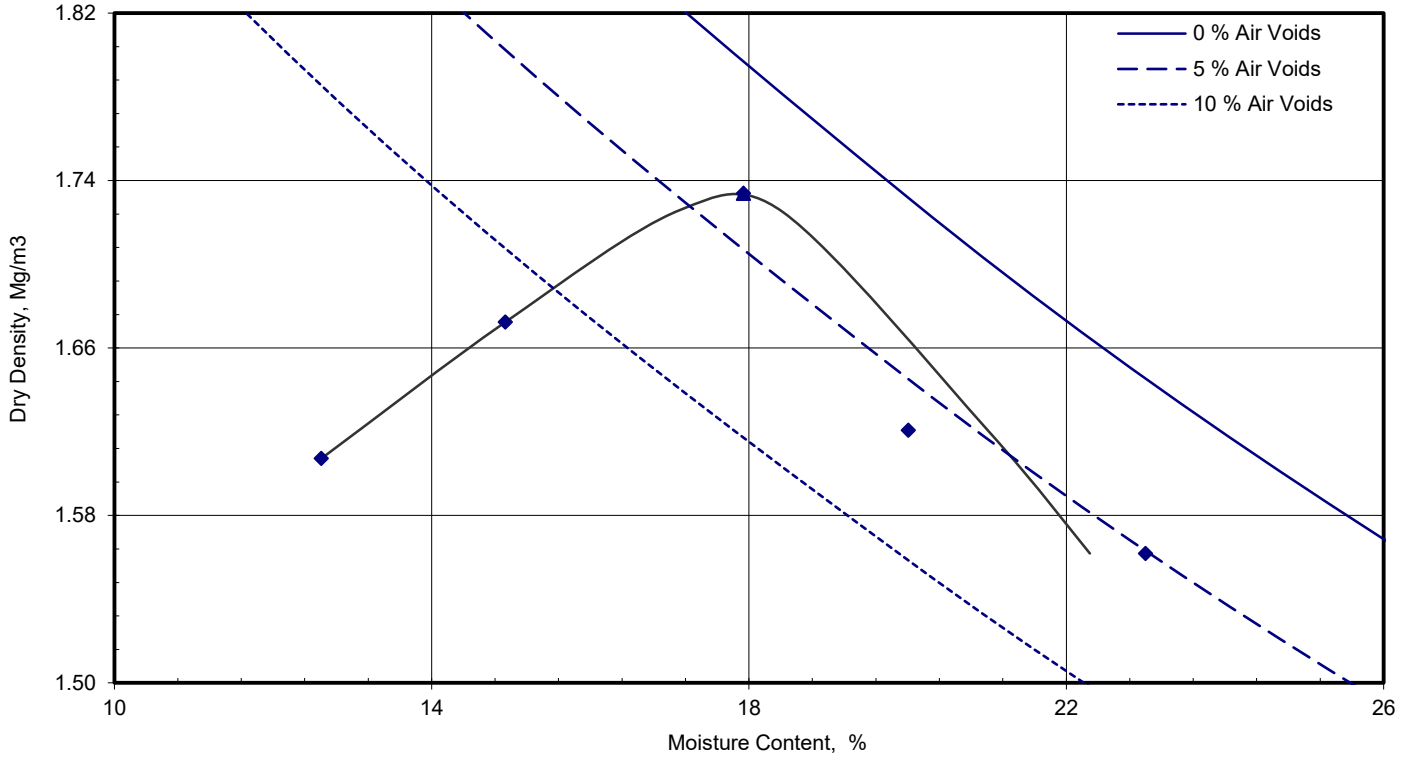
4041

| | | | |
|---|---|---|---|
| Client: | Delta-Simons | Client Reference: | 19-2099.04 |
| Client Address: | Suite C1, Joseph's Well,<br>Hanover Walk, Leeds,<br>LS3 1AB | Job Number: | 21-68356 |
| | | Date Sampled: | 30/03/2021 |
| | | Date Received: | 14/04/2021 |
| Contact: | David Jackson | Date Tested: | 27/04/2021 |
| Site Address: | Brockhampton West, Havant | Sampled By: | Client |

*Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland*

**Test Results:**

| | | | |
|---|---|---|---|
| Laboratory Reference: | 1835090 | Depth Top [m]: | 0.40 |
| Hole No.: | TP114 | Depth Base [m]: | 0.70 |
| Sample Reference: | Not Given | Sample Type: | B |
| Sample Description: | Brown slightly gravelly clayey very sandy SILT | | |
| Sample Preparation: | Sample was quartered and broken down by hand. Material used was natural. | | |




| Compaction Point No. | | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|---|
| Moisture Content | % | 13 | 15 | 18 | 20 | 23 |
| Dry Density | Mg/m³ | 1.61 | 1.67 | 1.73 | 1.62 | 1.56 |

| | | |
|---|---|---|
| Mould Type | | CBR |
| Samples Used | | Single sample tested |
| Material Retained on 37.5 mm Sieve | % | 0 |
| Material Retained on 20.0 mm Sieve | % | 0 |
| Particle Density - Assumed | Mg/m³ | 2.65 |
| As received Moisture Content | % | 21 |
| **Maximum Dry Density** | Mg/m³ | **1.73** |

| | | |
|---|---|---|
| **Optimum Moisture Content** | % | **18** |

Note: Tested in Accordance with BS 1377-4: 1990: Clause 3.4 using 2.5kg [light] Rammer

Remarks: Re-issue 1: Additional results of PSD and Compaction 2.5 kg (sample 1835079)

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**Signed:**

Monika Janoszek
PL Deputy Head of Geotechnical Section
**for and on behalf of i2 Analytical Ltd**



**Date Reported:** 04/06/2021

**GF 109.21**

# TEST CERTIFICATE

**Dry Density / Moisture Content**

**Relationship Light Compaction**

Tested in Accordance with:
BS 1377-4: 1990

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

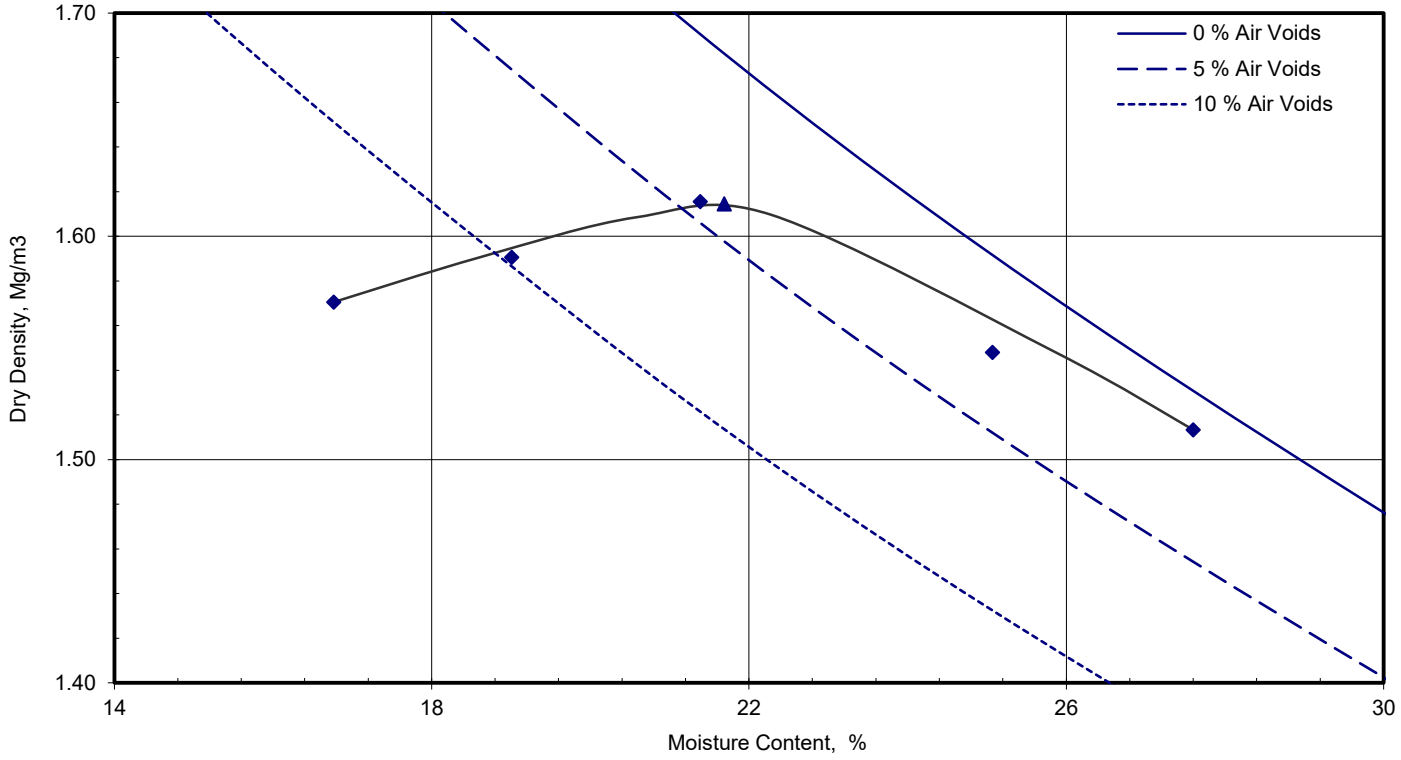
4041

| | | | |
|---|---|---|---|
| Client: | Delta-Simons | Client Reference: | 19-2099.04 |
| Client Address: | Suite C1, Joseph's Well,<br>Hanover Walk, Leeds,<br>LS3 1AB | Job Number: | 21-68356 |
| | | Date Sampled: | 31/03/2021 |
| | | Date Received: | 14/04/2021 |
| Contact: | David Jackson | Date Tested: | 29/04/2021 |
| Site Address: | Brockhampton West, Havant | Sampled By: | Client |

*Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland*

**Test Results:**

| | | | |
|---|---|---|---|
| Laboratory Reference: | 1835092 | Depth Top [m]: | 1.00 |
| Hole No.: | TP115 | Depth Base [m]: | 1.50 |
| Sample Reference: | Not Given | Sample Type: | B |
| Sample Description: | Greyish brown sandy clayey SILT | | |
| Sample Preparation: | Sample was quartered and broken down by hand. Material used was natural. | | |




| Compaction Point No. | | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|---|
| Moisture Content | % | 17 | 19 | 21 | 25 | 28 |
| Dry Density | Mg/m³ | 1.57 | 1.59 | 1.62 | 1.55 | 1.51 |

| | | |
|---|---|---|
| Mould Type | | CBR |
| Samples Used | | Single sample tested |
| Material Retained on 37.5 mm Sieve | % | 0 |
| Material Retained on 20.0 mm Sieve | % | 0 |
| Particle Density - Assumed | Mg/m³ | 2.65 |
| As received Moisture Content | % | 30 |
| **Maximum Dry Density** | Mg/m³ | **1.61** |

| | | |
|---|---|---|
| **Optimum Moisture Content** | % | **22** |

Note: Tested in Accordance with BS 1377-4: 1990: Clause 3.4 using 2.5kg [light] Rammer

Remarks: Re-issue 1: Additional results of PSD and Compaction 2.5 kg (sample 1835079)

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**Signed:**

Monika Janoszek
PL Deputy Head of Geotechnical Section
**for and on behalf of i2 Analytical Ltd**



**Date Reported:** 04/06/2021

**GF 109.21**

# SUMMARY REPORT

## Summary of Moisture Condition Value Test Results

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

UKAS TESTING 4041

Tested in Accordance with: BS 1377-4: 1990: Clause 5.4

Client: Delta-Simons

Client Address: Suite C1, Joseph's Well,□
Hanover Walk, Leeds,□
LS3 1AB

Contact: David Jackson

Site Address: Brockhampton West, Havant

Client Reference: 19-2099.04
Job Number: 21-68356
Date Sampled: 29/03 - 01/04/2021
Date Received: 14/04/2021
Date Tested: 28/04/2021
Sampled By: Client

*Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland*

### Test results

| Laboratory Reference | Hole No. | Sample | | | | Description | Remarks | Retained on 20mm sieve % | Moisture Content <20mm % | Moisture Condition Value | Method of Interpretation | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Reference | Depth Top m | Depth Base m | Type | | | | | | | | | | | | | |
| 1835076 | TP105 | Not Given | 0.70 | 1.00 | B | Brown gravelly very sandy very silty CLAY | | 0 | 22 | 9.6 | Steepest straight line | | | | | | | |
| 1835080 | TP107 | Not Given | 0.50 | 1.00 | B | Mottled brown slightly gravelly CLAY | | 0 | 25 | 10.2 | Steepest straight line | | | | | | | |
| 1835081 | TP108 | Not Given | 0.50 | 1.00 | B | Greyish brown very gravelly very sandy CLAY and SILT | | 2 | 21 | 10.8 | Steepest straight line | | | | | | | |
| 1835086 | TP111 | Not Given | 0.50 | 1.00 | B | Brown gravelly very sandy very clayey SILT | | 0 | 26 | 9.3 | Steepest straight line | | | | | | | |
| 1835088 | TP112 | Not Given | 0.90 | 1.20 | B | Mottled brown clayey very gravelly very sandy SILT | | 6 | 20 | 6.4 | Steepest straight line | | | | | | | |
| 1835067 | TP119 | Not Given | 0.30 | 0.70 | B | Greyish brown very gravelly very sandy ery clayey SILT with fragments of chalk | | 5 | 20 | 9.2 | Steepest straight line | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |

Comments: Re-issue 1: Additional results of PSD and Compaction 2.5 kg (sample 1835079)

**Signed:**

Monika Janoszek
PL Deputy Head of Geotechnical Section
**for and on behalf of i2 Analytical Ltd**

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**Date Reported:** 04/06/2021

**GF 107.14**

# TEST CERTIFICATE

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

## TOC Forensic

Tested in Accordance with: Research Bulletin RB17
November 2012 ISSN 2047-6450

| | | | |
|---|---|---|---|
| Client: | Delta-Simons | Client Reference: | 19-2099.04 |
| Client Address: | Suite C1, Joseph's Well, Hanover Walk, Leeds, LS3 1AB | Job Number: | 21-68371 |
| | | Date Sampled: | 30/03/2021 |
| | | Date Received: | 04/01/2021 |
| Contact: | David Jackson | Date Tested: | 15/04/2021 |
| Site Address: | Brockhampton West, Havant | Sampled By: | Not Given |

*Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland*

**Test Results:**

| | | | |
|---|---|---|---|
| Laboratory Reference: | 1835169 | Depth Top [m]: | 3.50 |
| Hole No.: | TP104 | Depth Base [m]: | 3.80 |
| Sample Reference: | Not Given | Sample Type: | B |
| Soil Description: | WASTE MATERIALS | | |

Sample preparation: Sample was dried at 40 °C

| Constituents | Proportion (%) |
|---|---|
| Fine soil including gravel less than 10mm | 46.9 |
| Coarse inert particles including gravel, concrete, brick, etc greater than 10mm | 15.6 |
| Wood, trees, branches, etc | 10.6 |
| Green vegetation, grass, food waste, etc | 7.4 |
| Cloth, leather | 0.1 |
| Metal | 4.1 |
| Glass | 1.8 |
| Ceramics | 0.9 |
| Other inert material | 0.7 |
| Plastic | 10.4 |
| Paper and card | 0.8 |
| Other degradable material | 0.7 |

| | TOC (%) | Limit of detection (%) | Accreditation Status |
|---|---|---|---|
| **Total Organic Carbon*** | **1.6** | 0.1 | MCERTS |

TOC job no 21-68371, sample no 1835169.

Note: *Tested in accordance with In house method L009-PL Determination of organic matter in soil by oxidising with potassium dichromate follwed by titration with iron (II) sulphate.

Remarks:

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**Signed:**

Monika Janoszek
PL Deputy Head of Geotechnical Section
**for and on behalf of i2 Analytical Ltd**



**Date Reported:** 20/04/2021

**GF 272.8**

# TEST CERTIFICATE

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

## TOC Forensic

Tested in Accordance with: Research Bulletin RB17
November 2012 ISSN 2047-6450

| | | | |
|---|---|---|---|
| Client: | Delta-Simons | Client Reference: | 19-2099.04 |
| Client Address: | Suite C1, Joseph's Well, Hanover Walk, Leeds, LS3 1AB | Job Number: | 21-68371 |
| | | Date Sampled: | 01/04/2021 |
| | | Date Received: | 04/01/2021 |
| Contact: | David Jackson | Date Tested: | 15/04/2021 |
| Site Address: | Brockhampton West, Havant | Sampled By: | Not Given |

*Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland*

**Test Results:**

| | | | |
|---|---|---|---|
| Laboratory Reference: | 1835170 | Depth Top [m]: | 3.00 |
| Hole No.: | TP109 | Depth Base [m]: | 3.50 |
| Sample Reference: | Not Given | Sample Type: | B |
| Soil Description: | WASTE MATERIALS | | |

Sample preparation: Sample was dried at 40 °C

| Constituents | Proportion (%) |
|---|---|
| Fine soil including gravel less than 10mm | 44.3 |
| Coarse inert particles including gravel, concrete, brick, etc greater than 10mm | 21.4 |
| Wood, trees, branches, etc | 2.2 |
| Green vegetation, grass, food waste, etc | 0.2 |
| Cloth, leather | 2.0 |
| Metal | 6.2 |
| Glass | 5.3 |
| Ceramics | 0.8 |
| Other inert material | 0.9 |
| Plastic | 15.1 |
| Paper and card | 1.4 |
| Other degradable material | 0.2 |

| | TOC (%) | Limit of detection (%) | Accreditation Status |
|---|---|---|---|
| **Total Organic Carbon*** | **2.7** | 0.1 | MCERTS |

TOC job no 21-68371, sample no 1835170.

Note: *Tested in accordance with In house method L009-PL Determination of organic matter in soil by oxidising with potassium dichromate follwed by titration with iron (II) sulphate.

Remarks:

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**Signed:**

Monika Janoszek
PL Deputy Head of Geotechnical Section
**for and on behalf of i2 Analytical Ltd**



**Date Reported:** 20/04/2021

**GF 272.8**

# TEST CERTIFICATE

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

## TOC Forensic

Tested in Accordance with: Research Bulletin RB17
November 2012 ISSN 2047-6450

| | | | |
|---|---|---|---|
| Client: | Delta-Simons | Client Reference: | 19-2099.04 |
| Client Address: | Suite C1, Joseph's Well, Hanover Walk, Leeds, LS3 1AB | Job Number: | 21-68371 |
| | | Date Sampled: | 31/03/2021 |
| | | Date Received: | 04/01/2021 |
| Contact: | David Jackson | Date Tested: | 15/04/2021 |
| Site Address: | Brockhampton West, Havant | Sampled By: | Not Given |

*Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland*

**Test Results:**

| | | | |
|---|---|---|---|
| Laboratory Reference: | 1835171 | Depth Top [m]: | 1.70 |
| Hole No.: | TP112 | Depth Base [m]: | 2.00 |
| Sample Reference: | Not Given | Sample Type: | B |
| Soil Description: | WASTE MATERIALS | | |

Sample preparation: Sample was dried at 40 °C

| Constituents | Proportion (%) |
|---|---|
| Fine soil including gravel less than 10mm | 51.5 |
| Coarse inert particles including gravel, concrete, brick, etc greater than 10mm | 22.3 |
| Wood, trees, branches, etc | 2.2 |
| Green vegetation, grass, food waste, etc | 0.4 |
| Cloth, leather | 5.0 |
| Metal | 8.9 |
| Glass | 4.9 |
| Ceramics | 0.3 |
| Other inert material | 0.7 |
| Plastic | 2.1 |
| Paper and card | 0.9 |
| Other degradable material | 0.7 |

| | TOC (%) | Limit of detection (%) | Accreditation Status |
|---|---|---|---|
| **Total Organic Carbon*** | **1.8** | 0.1 | MCERTS |

TOC job no 21-68371, sample no 1835171.

Note: *Tested in accordance with In house method L009-PL Determination of organic matter in soil by oxidising with potassium dichromate follwed by titration with iron (II) sulphate.

Remarks:

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**Signed:**

Monika Janoszek
PL Deputy Head of Geotechnical Section
**for and on behalf of i2 Analytical Ltd**



**Date Reported:** 20/04/2021

**GF 272.8**

# TEST CERTIFICATE

## Liquid and Plastic Limits

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

4041

Tested in Accordance with: BS 1377-2: 1990: Clause 4.4 and 5

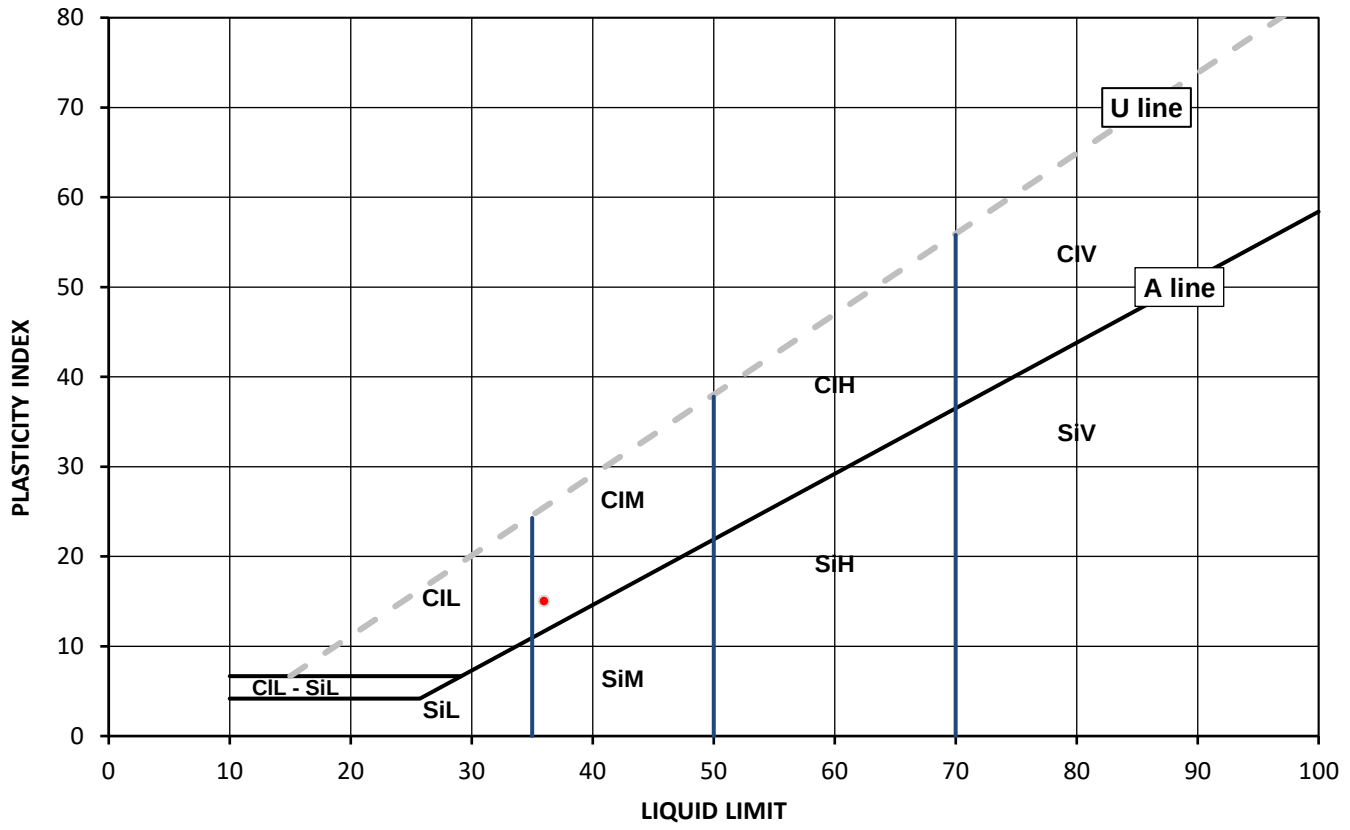
| | | | |
|---|---|---|---|
| Client: | Delta-Simons | Client Reference: | 19-2099.04 |
| Client Address: | Suite C1, Joseph's Well,<br>Hanover Walk, Leeds,<br>LS3 1AB | Job Number: | 21-74699 |
| | | Date Sampled: | 25/02/2021 |
| | | Date Received: | 06/05/2021 |
| Contact: | David Jackson | Date Tested: | 19/05/2021 |
| Site Address: | Brockhampton West, Havant | Sampled By: | Client |

*Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland*

**Test Results:**

| | | | |
|---|---|---|---|
| Laboratory Reference: | 1869808_1 | Depth Top [m]: | 0.50 |
| Hole No.: | RO103 | Depth Base [m]: | 0.70 |
| Sample Reference: | Not Given | Sample Type: | D |
| Soil Description: | Brown gravelly sandy CLAY with fragments of chalk | | |
| Sample Preparation: | Tested after washing to remove >425um | | |

| As Received Moisture Content [ W ] % | Liquid Limit [ WL ] % | Plastic Limit [ Wp ] % | Plasticity Index [ Ip ] % | % Passing 425µm BS Test Sieve |
|---|---|---|---|---|
| 17 | 36 | 21 | 15 | 65 |




Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

| | | Plasticity | | Liquid Limit |
|---|---|---|---|---|
| Cl | Clay | L | Low | below 35 |
| Si | Silt | M | Medium | 35 to 50 |
| | | H | High | 50 to 70 |
| | | V | Very high | exceeding 70 |
| | | O | Organic | append to classification for organic material ( eg ClHO ) |

Note: Moisture Content by BS 1377-2: 1990: Clause 3.2

Remarks: Re-issue 3: Additional result of ATT 1 point and Hole No. amended (sample 1869808_1).

Opinions and interpretations expressed herein are outside of the scope of the UKAS Accreditation. This report may not be reproduced other than in full without the prior written approval of the issuing laboratory. The results included within the report relate only to the sample(s) submitted for testing.

**Signed:**

Aleksandra Jurochnik
PL Technical Reviewer
**for and on behalf of i2 Analytical Ltd**



**Date Reported:** 09/06/2021

**GF 232.10**

# TEST CERTIFICATE

## Liquid and Plastic Limits

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

4041

Tested in Accordance with: BS 1377-2: 1990: Clause 4.3 and 5

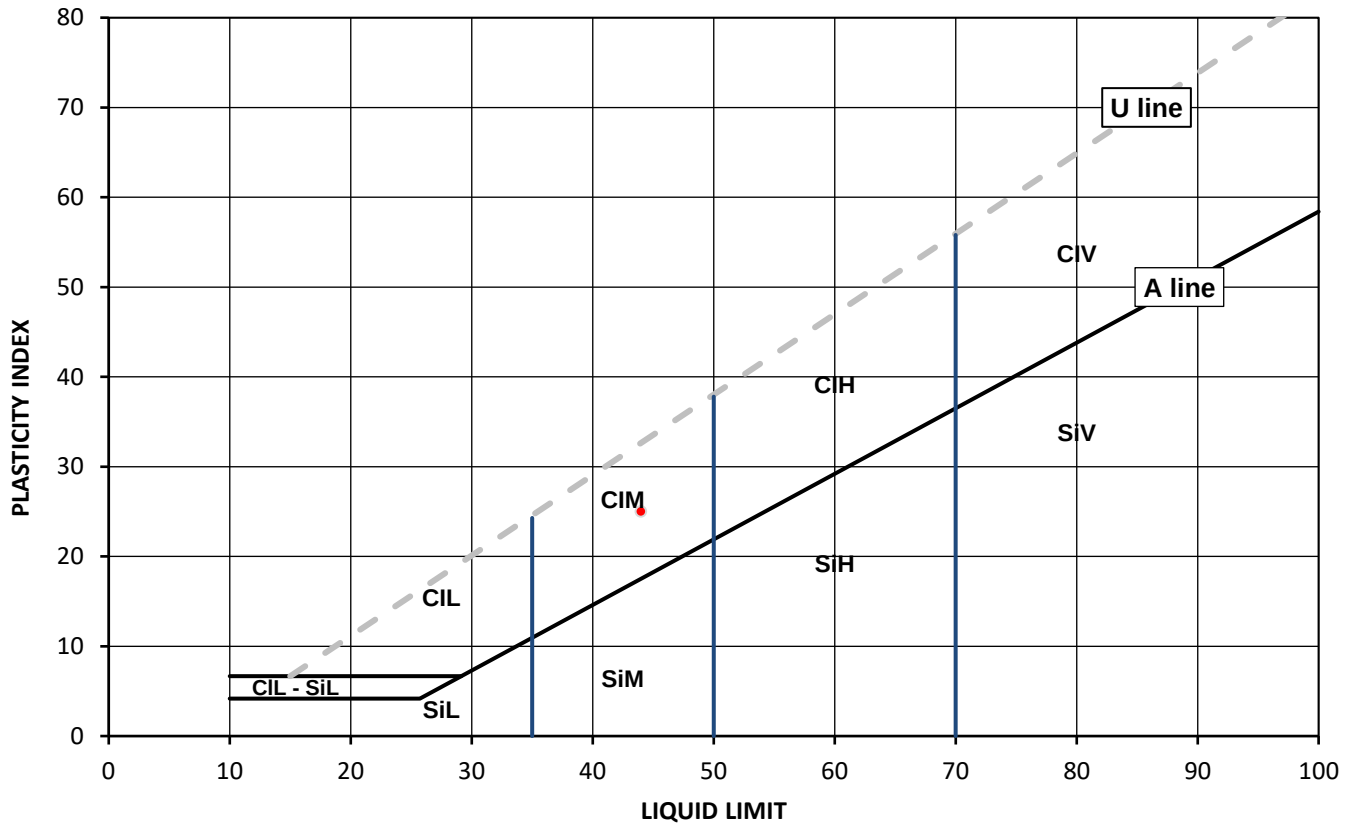
| | | | |
|---|---|---|---|
| Client: | Delta-Simons | Client Reference: | 19-2099.04 |
| Client Address: | Suite C1, Joseph's Well,<br>Hanover Walk, Leeds,<br>LS3 1AB | Job Number: | 21-74699 |
| | | Date Sampled: | 25/02/2021 |
| | | Date Received: | 06/05/2021 |
| Contact: | David Jackson | Date Tested: | 19/05/2021 |
| Site Address: | Brockhampton West, Havant | Sampled By: | Client |

*Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland*

**Test Results:**

| | | | |
|---|---|---|---|
| Laboratory Reference: | 1869806 | Depth Top [m]: | 1.85 |
| Hole No.: | RO107 | Depth Base [m]: | Not Given |
| Sample Reference: | Not Given | Sample Type: | D |
| Soil Description: | Multicolour slightly gravelly sandy CLAY | | |
| Sample Preparation: | Tested after washing to remove >425um | | |

| As Received Moisture Content [ W ] % | Liquid Limit [ WL ] % | Plastic Limit [ Wp ] % | Plasticity Index [ Ip ] % | % Passing 425µm BS Test Sieve |
|---|---|---|---|---|
| 24 | 44 | 19 | 25 | 79 |




Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

| | | Plasticity | | Liquid Limit |
|---|---|---|---|---|
| Cl | Clay | L | Low | below 35 |
| Si | Silt | M | Medium | 35 to 50 |
| | | H | High | 50 to 70 |
| | | V | Very high | exceeding 70 |
| | | O | Organic | append to classification for organic material ( eg ClHO ) |

Note: Moisture Content by BS 1377-2: 1990: Clause 3.2

Remarks: Re-issue 3: Additional result of ATT 1 point and Hole No. amended (sample 1869808_1).

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**Signed:**

Aleksandra Jurochnik
PL Technical Reviewer
**for and on behalf of i2 Analytical Ltd**



**Date Reported:** 09/06/2021

**GF 236.10**

# TEST CERTIFICATE

## Liquid and Plastic Limits

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

4041

Tested in Accordance with: BS 1377-2: 1990: Clause 4.3 and 5

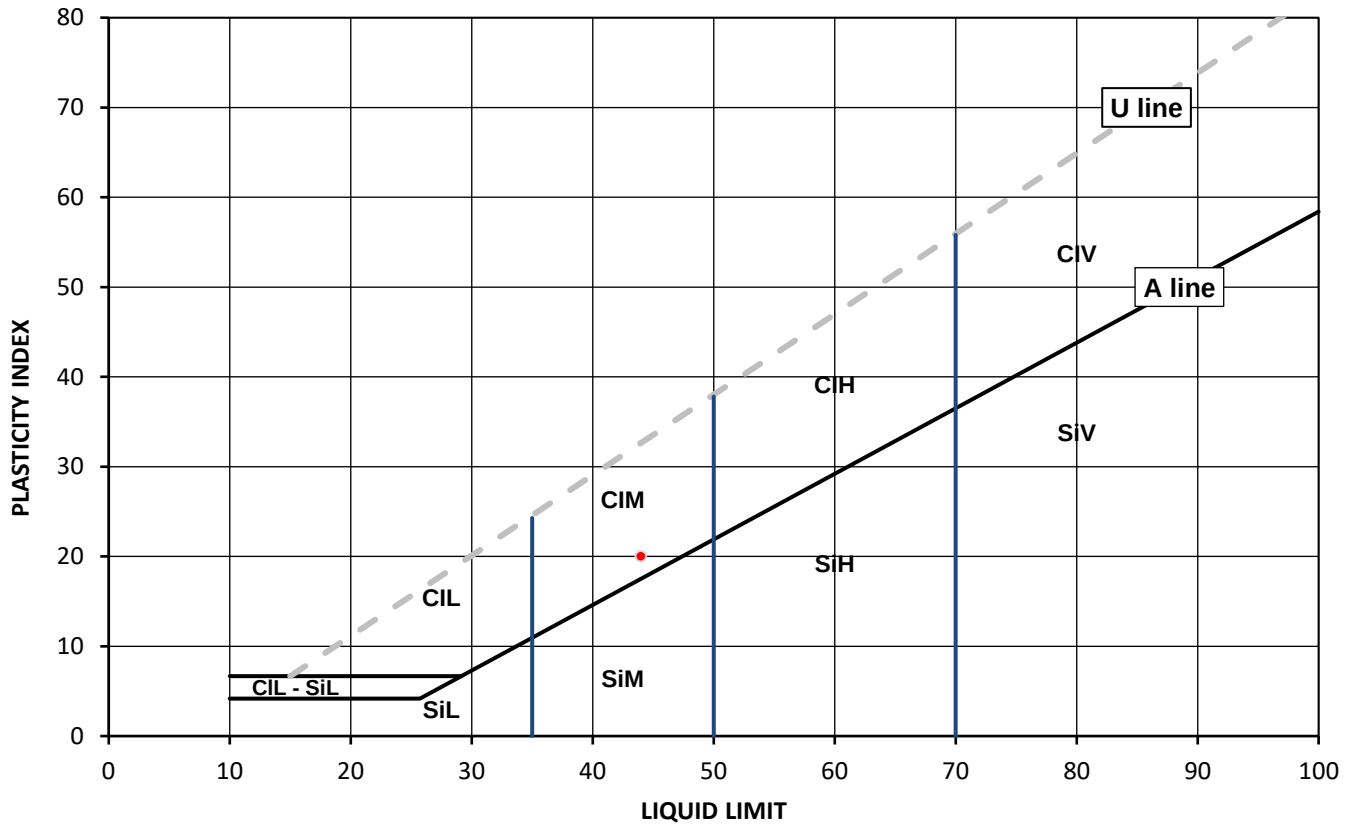
| | | | |
|---|---|---|---|
| Client: | Delta-Simons | Client Reference: | 19-2099.04 |
| Client Address: | Suite C1, Joseph's Well,<br>Hanover Walk, Leeds,<br>LS3 1AB | Job Number: | 21-74699 |
| | | Date Sampled: | 25/02/2021 |
| | | Date Received: | 06/05/2021 |
| Contact: | David Jackson | Date Tested: | 28/05/2021 |
| Site Address: | Brockhampton West, Havant | Sampled By: | Client |

*Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland*

**Test Results:**

| | | | |
|---|---|---|---|
| Laboratory Reference: | 1869808 | Depth Top [m]: | 0.50 |
| Hole No.: | RO106 | Depth Base [m]: | 0.70 |
| Sample Reference: | Not Given | Sample Type: | D |
| Soil Description: | Brown gravelly sandy CLAY with fragments of chalk | | |
| Sample Preparation: | Tested after washing to remove >425um | | |

| As Received Moisture Content [ W ] % | Liquid Limit [ WL ] % | Plastic Limit [ Wp ] % | Plasticity Index [ Ip ] % | % Passing 425µm BS Test Sieve |
|---|---|---|---|---|
| 17 | 44 | 24 | 20 | 55 |




Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

| | | Plasticity | | Liquid Limit |
|---|---|---|---|---|
| Cl | Clay | L | Low | below 35 |
| Si | Silt | M | Medium | 35 to 50 |
| | | H | High | 50 to 70 |
| | | V | Very high | exceeding 70 |
| | | O | Organic | append to classification for organic material ( eg ClHO ) |

Note: Moisture Content by BS 1377-2: 1990: Clause 3.2

Remarks: Re-issue 3: Additional result of ATT 1 point and Hole No. amended (sample 1869808_1).

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**Signed:**

Aleksandra Jurochnik
PL Technical Reviewer
**for and on behalf of i2 Analytical Ltd**



**Date Reported:** 09/06/2021

**GF 236.10**

# SUMMARY REPORT

## Summary of Classification Test Results

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

UKAS TESTING 4041

Tested in Accordance with:

Moisture Content by BS 1377-2: 1990: Clause 3.2; Water Content by BS EN 17892-1: 2014; Atterberg by BS 1377-2: 1990: Clause 4.3 (4 Point Test), Clause 4.4 (1 Point Test) and 5; PD by BS 1377-2: 1990: Clause 8.2

Client: Delta-Simons

Client Address: Suite C1, Joseph's Well, Hanover Walk, Leeds, LS3 1AB

Contact: David Jackson

Site Address: Brockhampton West, Havant

Client Reference: 19-2099.04
Job Number: 21-74699
Date Sampled: 25/02 - 03/03/2021
Date Received: 06/05/2021
Date Tested: 28/05/2021
Sampled By: Client

*Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland*

### Test results

| Laboratory Reference | Hole No. | Sample | | | | Description | Remarks | Moisture Content [ W ] | Water Content [ W ] | Atterberg | | | | Density | | | Total Porosity# | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Reference | Depth Top m | Depth Base m | Type | | | % | % | % Passing 425um % | WL % | Wp % | Ip % | bulk Mg/m3 | dry Mg/m3 | PD Mg/m3 | % | | |
| 1869814 | RO101 | Not Given | 10.70 | 11.00 | D | Brown slightly gravelly CLAY | | 24 | | | | | | | | | | | |
| 1869808 | RO106 | Not Given | 0.50 | 0.70 | D | Brown gravelly sandy CLAY with fragments of chalk | Atterberg 4 Point | 17 | | 55 | 44 | 24 | 20 | | | | | | |
| 1869806 | RO107 | Not Given | 1.85 | Not Given | D | Multicolour slightly gravelly sandy CLAY | Atterberg 4 Point | 24 | | 79 | 44 | 19 | 25 | | | | | | |
| 1869807 | RO107 | Not Given | 3.00 | Not Given | D | Brown CLAY with waste material | | 28 | | | | | | | | | | | |
| 1869808_1 | RO103 | Not Given | 1.20 | 1.65 | D | Brown gravelly sandy CLAY with fragments of chalk | Atterberg 1 Point | 16 | | 65 | 36 | 21 | 15 | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |

Note: # Non accredited; NP - Non plastic

Comments: Re-issue 3: Additional result of ATT 1 point and Hole No. amended (sample 1869808_1).

**Signed:**

Aleksandra Jurochnik
PL Technical Reviewer
**for and on behalf of i2 Analytical Ltd**

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**Date Reported:** 09/06/2021

**GF 238.12**

# TEST CERTIFICATE

## Particle Size Distribution

Tested in Accordance with: BS 1377-2: 1990

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

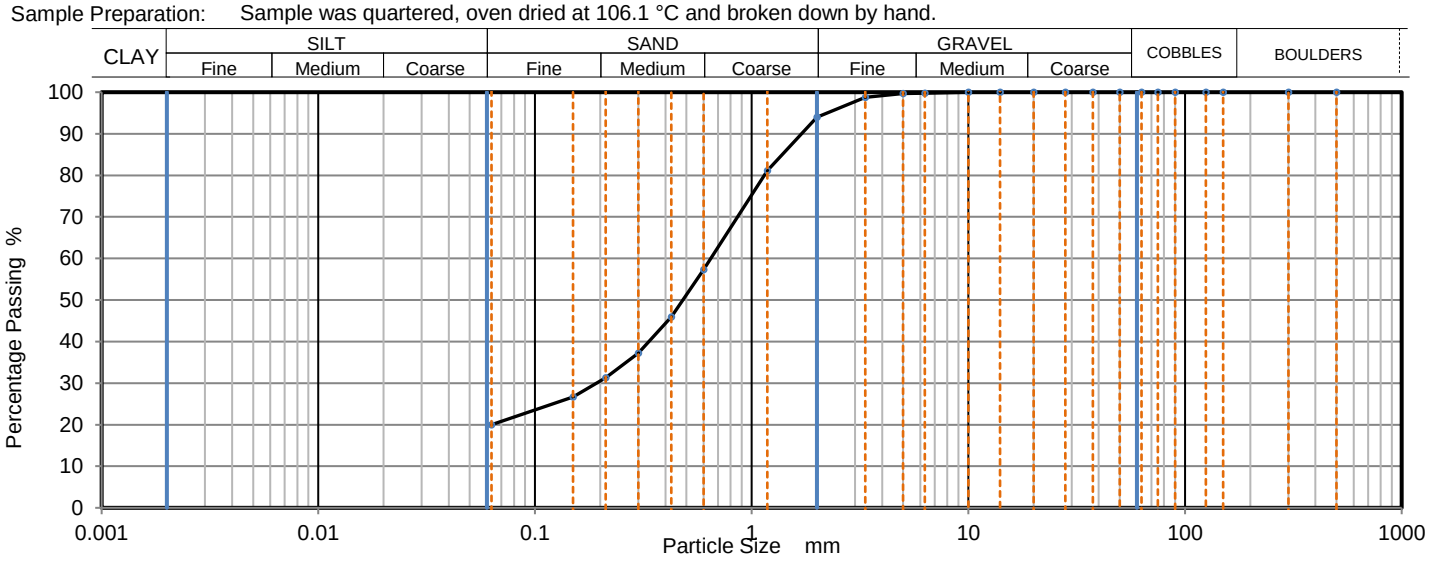
4041

| | | | |
|---|---|---|---|
| Client: | Delta-Simons | Client Reference: | 19-2099.04 |
| Client Address: | Suite C1, Joseph's Well, Hanover Walk, Leeds, LS3 1AB | Job Number: | 21-74699 |
| | | Date Sampled: | 26/02/2021 |
| | | Date Received: | 06/05/2021 |
| Contact: | David Jackson | Date Tested: | 18/05/2021 |
| Site Address: | Brockhampton West, Havant | Sampled By: | Client |

*Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland*

**Test Results:**

| | | | |
|---|---|---|---|
| Laboratory Reference: | 1869809 | Depth Top [m]: | 13.00 |
| Hole No.: | RO103 | Depth Base [m]: | 13.50 |
| Sample Reference: | Not Given | Sample Type: | B |
| Sample Description: | Cream colour slightly gravelly clayey SAND | | |
| Sample Preparation: | Sample was quartered, oven dried at 106.1 °C and broken down by hand. | | |




| Sieving | | Sedimentation | |
|---|---|---|---|
| Particle Size mm | % Passing | Particle Size mm | % Passing |
| 500 | 100 | | |
| 300 | 100 | | |
| 150 | 100 | | |
| 125 | 100 | | |
| 90 | 100 | | |
| 75 | 100 | | |
| 63 | 100 | | |
| 50 | 100 | | |
| 37.5 | 100 | | |
| 28 | 100 | | |
| 20 | 100 | | |
| 14 | 100 | | |
| 10 | 100 | | |
| 6.3 | 100 | | |
| 5 | 100 | | |
| 3.35 | 99 | | |
| 2 | 94 | | |
| 1.18 | 81 | | |
| 0.6 | 57 | | |
| 0.425 | 46 | | |
| 0.3 | 37 | | |
| 0.212 | 31 | | |
| 0.15 | 27 | | |
| 0.063 | 20 | | |

| Sample Proportions | % dry mass |
|---|---|
| Very coarse | 0 |
| Gravel | 6 |
| Sand | 74 |
| | |
| Fines <0.063mm | 20 |

| Grading Analysis | | |
|---|---|---|
| D100 | mm | 10 |
| D60 | mm | 0.647 |
| D30 | mm | 0.192 |
| D10 | mm | |
| Uniformity Coefficient | | > 10 |
| Curvature Coefficient | | |

Uniformity Coefficient and Coefficient of Curvature calculated in accordance with BS EN ISO 14688-2: 2004 + A1: 2013

Note: Tested in Accordance with BS1377:Part 2:1990, clause 9.2

Remarks: Re-issue 3: Additional result of ATT 1 point and Hole No. amended (sample 1869808_1).

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**Signed:**

Aleksandra Jurochnik
PL Technical Reviewer
**for and on behalf of i2 Analytical Ltd**



**Date Reported:** 09/06/2021

**GF 100.20**

# TEST CERTIFICATE

## Particle Size Distribution

Tested in Accordance with: BS 1377-2: 1990

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

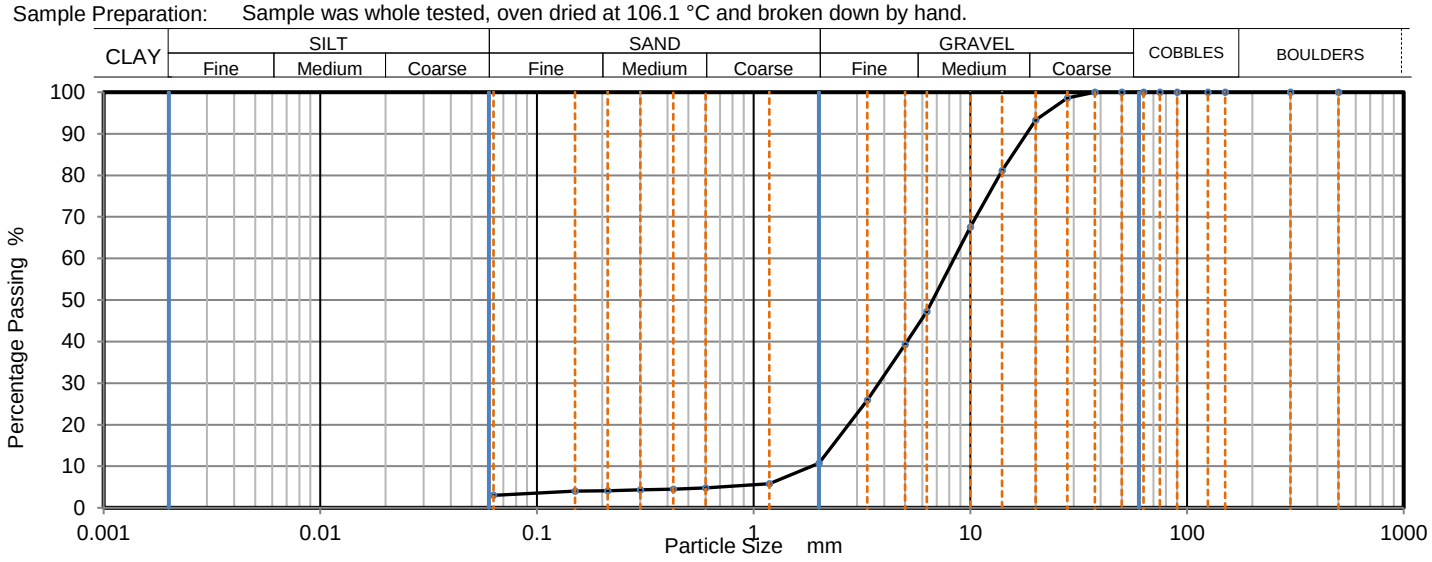
4041

| | | | |
|---|---|---|---|
| Client: | Delta-Simons | Client Reference: | 19-2099.04 |
| Client Address: | Suite C1, Joseph's Well, Hanover Walk, Leeds, LS3 1AB | Job Number: | 21-74699 |
| | | Date Sampled: | 26/02/2021 |
| | | Date Received: | 06/05/2021 |
| Contact: | David Jackson | Date Tested: | 18/05/2021 |
| Site Address: | Brockhampton West, Havant | Sampled By: | Client |

*Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland*

**Test Results:**

| | | | |
|---|---|---|---|
| Laboratory Reference: | 1869810 | Depth Top [m]: | 13.50 |
| Hole No.: | RO103 | Depth Base [m]: | 14.00 |
| Sample Reference: | Not Given | Sample Type: | B |
| Sample Description: | Light brown slightly clayey slightly sandy GRAVEL | | |
| Sample Preparation: | Sample was whole tested, oven dried at 106.1 °C and broken down by hand. | | |




| Sieving | | Sedimentation | |
|---|---|---|---|
| Particle Size mm | % Passing | Particle Size mm | % Passing |
| 500 | 100 | | |
| 300 | 100 | | |
| 150 | 100 | | |
| 125 | 100 | | |
| 90 | 100 | | |
| 75 | 100 | | |
| 63 | 100 | | |
| 50 | 100 | | |
| 37.5 | 100 | | |
| 28 | 99 | | |
| 20 | 93 | | |
| 14 | 81 | | |
| 10 | 68 | | |
| 6.3 | 47 | | |
| 5 | 39 | | |
| 3.35 | 26 | | |
| 2 | 11 | | |
| 1.18 | 6 | | |
| 0.6 | 5 | | |
| 0.425 | 5 | | |
| 0.3 | 4 | | |
| 0.212 | 4 | | |
| 0.15 | 4 | | |
| 0.063 | 4 | | |

| Sample Proportions | % dry mass |
|---|---|
| Very coarse | 0 |
| Gravel | 89 |
| Sand | 7 |
| | |
| Fines <0.063mm | 4 |

| Grading Analysis | | |
|---|---|---|
| D100 | mm | 37.5 |
| D60 | mm | 8.41 |
| D30 | mm | 3.79 |
| D10 | mm | 1.86 |
| Uniformity Coefficient | | 4.5 |
| Curvature Coefficient | | 0.92 |

Uniformity Coefficient and Coefficient of Curvature calculated in accordance with BS EN ISO 14688-2: 2004 + A1: 2013

Note: Tested in Accordance with BS1377:Part 2:1990, clause 9.2

Remarks: Re-issue 3: Additional result of ATT 1 point and Hole No. amended (sample 1869808_1).

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**Signed:**

Aleksandra Jurochnik
PL Technical Reviewer
**for and on behalf of i2 Analytical Ltd**



**Date Reported:** 09/06/2021

**GF 100.20**

# TEST CERTIFICATE

## Particle Size Distribution

Tested in Accordance with: BS 1377-2: 1990

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

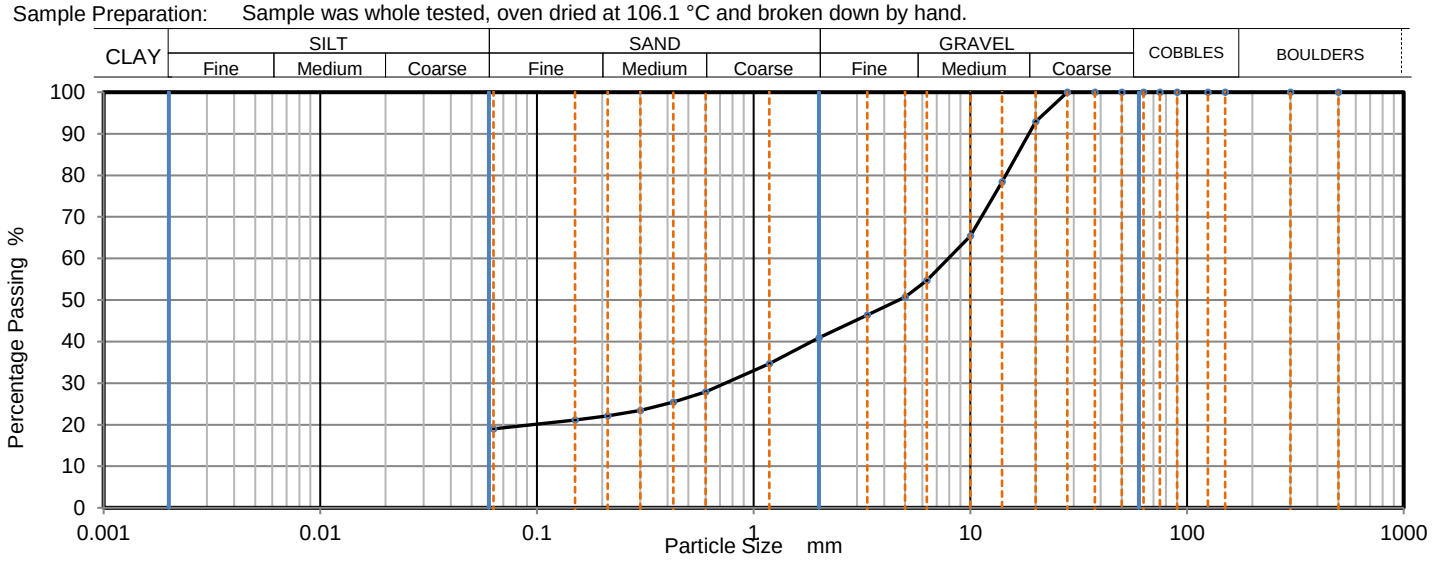
4041

| | | | |
|---|---|---|---|
| Client: | Delta-Simons | Client Reference: | 19-2099.04 |
| Client Address: | Suite C1, Joseph's Well, Hanover Walk, Leeds, LS3 1AB | Job Number: | 21-74699 |
| | | Date Sampled: | 04/03/2021 |
| | | Date Received: | 06/05/2021 |
| Contact: | David Jackson | Date Tested: | 18/05/2021 |
| Site Address: | Brockhampton West, Havant | Sampled By: | Client |

*Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland*

**Test Results:**

| | | | |
|---|---|---|---|
| Laboratory Reference: | 1869815 | Depth Top [m]: | 11.10 |
| Hole No.: | RO101 | Depth Base [m]: | 13.90 |
| Sample Reference: | Not Given | Sample Type: | B |
| Sample Description: | Light brown sandy clayey GRAVEL | | |
| Sample Preparation: | Sample was whole tested, oven dried at 106.1 °C and broken down by hand. | | |




| Sieving | | Sedimentation | |
|---|---|---|---|
| Particle Size mm | % Passing | Particle Size mm | % Passing |
| 500 | 100 | | |
| 300 | 100 | | |
| 150 | 100 | | |
| 125 | 100 | | |
| 90 | 100 | | |
| 75 | 100 | | |
| 63 | 100 | | |
| 50 | 100 | | |
| 37.5 | 100 | | |
| 28 | 100 | | |
| 20 | 93 | | |
| 14 | 78 | | |
| 10 | 65 | | |
| 6.3 | 55 | | |
| 5 | 51 | | |
| 3.35 | 46 | | |
| 2 | 41 | | |
| 1.18 | 35 | | |
| 0.6 | 28 | | |
| 0.425 | 25 | | |
| 0.3 | 23 | | |
| 0.212 | 22 | | |
| 0.15 | 21 | | |
| 0.063 | 20 | | |

| Sample Proportions | % dry mass |
|---|---|
| Very coarse | 0 |
| Gravel | 59 |
| Sand | 21 |
| | |
| Fines <0.063mm | 20 |

| Grading Analysis | | |
|---|---|---|
| D100 | mm | 28 |
| D60 | mm | 7.92 |
| D30 | mm | 0.737 |
| D10 | mm | |
| Uniformity Coefficient | | > 130 |
| Curvature Coefficient | | |

Uniformity Coefficient and Coefficient of Curvature calculated in accordance with BS EN ISO 14688-2: 2004 + A1: 2013

Note: Tested in Accordance with BS1377:Part 2:1990, clause 9.2

Remarks: Re-issue 3: Additional result of ATT 1 point and Hole No. amended (sample 1869808_1).

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**Signed:**

Aleksandra Jurochnik
PL Technical Reviewer
**for and on behalf of i2 Analytical Ltd**



**Date Reported:** 09/06/2021

**GF 100.20**

# TEST CERTIFICATE

## Particle Size Distribution

Tested in Accordance with: BS 1377-2: 1990

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

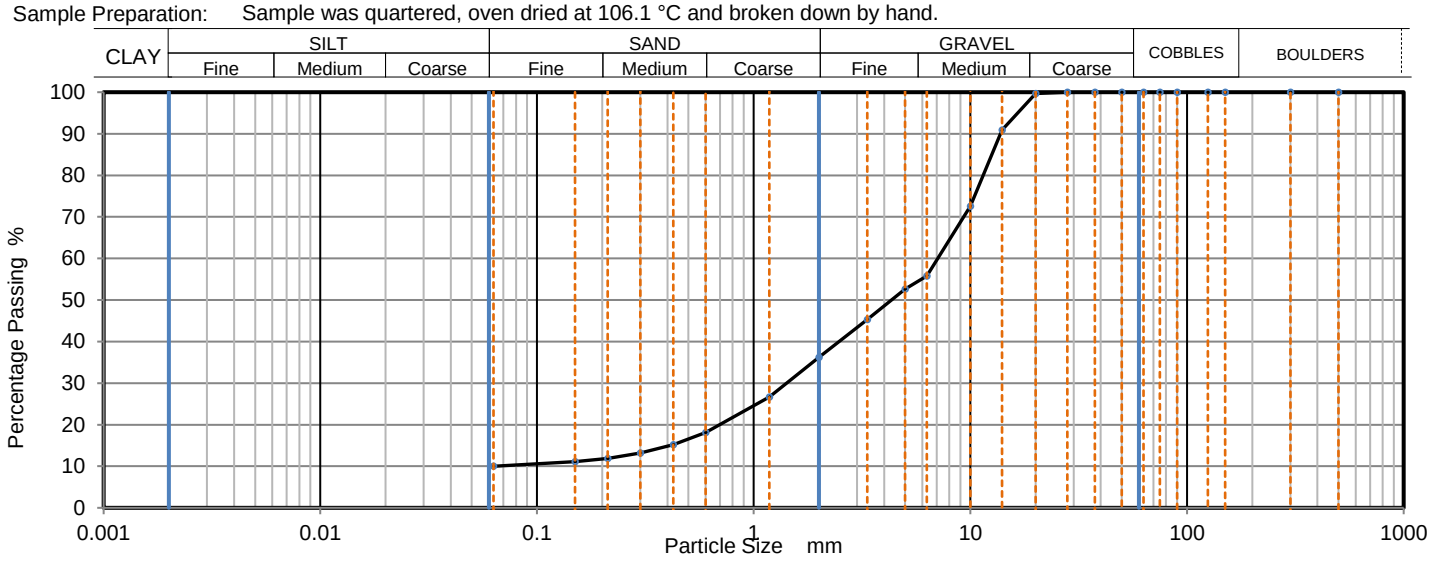
4041

| | | | |
|---|---|---|---|
| Client: | Delta-Simons | Client Reference: | 19-2099.04 |
| Client Address: | Suite C1, Joseph's Well, Hanover Walk, Leeds, LS3 1AB | Job Number: | 21-74699 |
| | | Date Sampled: | 09/03/2021 |
| | | Date Received: | 06/05/2021 |
| Contact: | David Jackson | Date Tested: | 18/05/2021 |
| Site Address: | Brockhampton West, Havant | Sampled By: | Client |

*Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland*

**Test Results:**

| | | | |
|---|---|---|---|
| Laboratory Reference: | 1869818 | Depth Top [m]: | 12.00 |
| Hole No.: | RO109 | Depth Base [m]: | 13.00 |
| Sample Reference: | Not Given | Sample Type: | B |
| Sample Description: | Light brown clayey sandy GRAVEL | | |
| Sample Preparation: | Sample was quartered, oven dried at 106.1 °C and broken down by hand. | | |




| Sieving | | Sedimentation | |
|---|---|---|---|
| Particle Size mm | % Passing | Particle Size mm | % Passing |
| 500 | 100 | | |
| 300 | 100 | | |
| 150 | 100 | | |
| 125 | 100 | | |
| 90 | 100 | | |
| 75 | 100 | | |
| 63 | 100 | | |
| 50 | 100 | | |
| 37.5 | 100 | | |
| 28 | 100 | | |
| 20 | 100 | | |
| 14 | 91 | | |
| 10 | 73 | | |
| 6.3 | 56 | | |
| 5 | 53 | | |
| 3.35 | 45 | | |
| 2 | 36 | | |
| 1.18 | 27 | | |
| 0.6 | 18 | | |
| 0.425 | 15 | | |
| 0.3 | 13 | | |
| 0.212 | 12 | | |
| 0.15 | 11 | | |
| 0.063 | 10 | | |

| Sample Proportions | % dry mass |
|---|---|
| Very coarse | 0 |
| Gravel | 64 |
| Sand | 26 |
| | |
| Fines <0.063mm | 10 |

| Grading Analysis | | |
|---|---|---|
| D100 | mm | 28 |
| D60 | mm | 7.07 |
| D30 | mm | 1.42 |
| D10 | mm | |
| Uniformity Coefficient | | > 110 |
| Curvature Coefficient | | |

Uniformity Coefficient and Coefficient of Curvature calculated in accordance with BS EN ISO 14688-2: 2004 + A1: 2013

Note: Tested in Accordance with BS1377:Part 2:1990, clause 9.2

Remarks: Re-issue 3: Additional result of ATT 1 point and Hole No. amended (sample 1869808_1).

Opinions and interpretations expressed herein are outside of the scope of the UKAS Accreditation. This report may not be reproduced other than in full without the prior written approval of the issuing laboratory. The results included within the report relate only to the sample(s) submitted for testing.

**Signed:**

Aleksandra Jurochnik
PL Technical Reviewer
**for and on behalf of i2 Analytical Ltd**



**Date Reported:** 09/06/2021

**GF 100.20**

# SUMMARY REPORT

## Summary of Saturation Moisture Content Test Results

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

UKAS TESTING 4041

Environmental Science

Tested in Accordance with: BS 1377-2: 1990: Clause 3.3

Client: Delta-Simons

Client Address: Suite C1, Joseph's Well,
Hanover Walk, Leeds,
LS3 1AB

Contact: David Jackson

Site Address: Brockhampton West, Havant

Client Reference: 19-2099.04
Job Number: 21-74699
Date Sampled: 02/03/2021
Date Received: 06/05/2021
Date Tested: 19/05/2021
Sampled By: Client

*Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland*

### Test results

| Laboratory Reference | Hole No. | Sample | | | | Description | Remarks | SMC | Bulk density | Dry density | MC | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Reference | Depth Top m | Depth Base m | Type | | | % | Mg/m3 | Mg/m3 | % | | | | | | | | |
| 1869811 | RO103 | Not Given | 17.50 | 18.00 | C | Cream colour CLAY with fragments of chalk | Supplied lump of chalk fails to comply with volume requirements as per BS1377:2 Clause 3.3.5.1 | 25 | 1.83 | 1.61 | 14 | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | | | | | | |

Note: SMC - Saturation Moisture Content; MC - Moisture Content

Comments: Re-issue 3: Additional result of ATT 1 point and Hole No. amended (sample 1869808_1).

Signed:

Aleksandra Jurochnik
PL Technical Reviewer
**for and on behalf of i2 Analytical Ltd**

Opinions and interpretations expressed herein are outside of the scope of the UKAS Accreditation. This report may not be reproduced other than in full without the prior written approval of the issuing laboratory. The results included within the report relate only to the sample(s) submitted for testing.



**Date Reported:** 09/06/2021

**GF 132.13**

# SUMMARY REPORT

## Summary of Point Load Strength Index Tests Results

Tested in Accordance with: ISRM: 2007, pages 125-132

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

UKAS TESTING 4041

Environmental Science

Client: Delta-Simons

Client Address: Suite C1, Joseph's Well, Hanover Walk, Leeds, LS3 1AB

Contact: David Jackson

Site Address: Brockhampton West, Havant

Client Reference: 19-2099.04
Job Number: 21-74699
Date Sampled: 25/02 - 10/03/2021
Date Received: 06/05/2021
Date Tested: 19/05/2021
Sampled By: Client

*Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland*

### Test results

| Laboratory Reference | Hole No. | Sample | | | | Description | Remarks # (including water content if measured) | Specimen Reference | Test Type see ISRM | | Failure Valid (Y/N) | Dimensions | | | | Force P | Equivalent diameter, De | Point Load Strength Index | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Reference | Depth Top | Depth Base | Type | | | | Type (D, A, I, B) | Direction (L, P or U) | | Lne | W | Dps | Dps' | | | Is | Is(50) |
| | | | m | m | | | | | | | | mm | mm | mm | mm | kN | mm | MPa | MPa |
| 1869817 | RO101 | Not Given | 22.70 | 22.80 | C | White CHALK | WC = 26.0% | 1 | I | U | YES | 36.1 | 95.4 | 71.0 | 68.0 | 0.3 | 90.9 | 0.03 | 0.04 |
| 1869805 | RO102 | Not Given | 24.50 | 26.00 | C | White CHALK | WC = 24.2% | 1 | I | U | YES | 49.3 | 101.0 | 88.0 | 83.0 | 0.3 | 103.3 | 0.02 | 0.03 |
| 1869812 | RO103 | Not Given | 25.10 | 25.30 | C | White CHALK | WC = 21.7% | 1 | I | U | YES | 52.3 | 101.7 | 80.0 | 76.0 | 1.7 | 99.2 | 0.17 | 0.24 |
| 1869813 | RO103 | Not Given | 28.30 | 28.45 | C | White CHALK | WC = 14.7% | 1 | I | U | YES | 41.3 | 97.5 | 62.0 | 58.0 | 0.4 | 84.9 | 0.05 | 0.06 |
| 1869820 | RO105 | Not Given | 19.70 | 19.80 | C | White CHALK | WC = 24.0% | 1 | I | U | YES | 38.5 | 96.6 | 63.0 | 58.0 | 0.9 | 84.5 | 0.13 | 0.16 |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | | | | | | |

Note: # non accredited; Test Type: D - Diametral, A - Axial, I - Irregular Lump, B - Block; Direction: L - parallel to planes of weakness, P - perpendicular to planes of weakness, U - unknown or random;
Dimensions: Dps - Distance between platens ( platen separation ), Dps' - at failure ( see ISRM note 6), Lne - Length from platens to nearest free end W - Width of shortest dimension perpendicular to load, P;
Detailed legend for test and dimensions, based on ISRM, is shown above; Size factor, F = (De/50)0.45 for all tests

Comments: Re-issue 3: Additional result of ATT 1 point and Hole No. amended (sample 1869808_1).

**Signed:**

Aleksandra Jurochnik
PL Technical Reviewer
**for and on behalf of i2 Analytical Ltd**

Opinions and interpretations expressed herein are outside of the scope of the UKAS Accreditation. This report may not be reproduced other than in full without the prior written approval of the issuing laboratory. The results included within the report relate only to the sample(s) submitted for testing.



**Date Reported:** 09/06/2021

**GF 134.12**

**David Jackson**
Delta-Simons
Suite C1
Joseph's Well
Hanover Walk
Leeds
LS3 1AB

**e:** david.jackson@deltasimons.com

i2 Analytical Ltd.
7 Woodshots Meadow,
Croxley Green
Business Park,
Watford,
Herts,
WD18 8YS

**t:** 01923 225404
**f:** 01923 237404
**e:** reception@i2analytical.com

# Analytical Report Number : 21-74787

| | | | |
|---|---|---|---|
| **Project / Site name:** | Brockhampon West, Havant | **Samples received on:** | 06/05/2021 |
| **Your job number:** | 19-2099.04 | **Samples instructed on/ Analysis started on:** | 06/05/2021 |
| **Your order number:** | DS59329 | **Analysis completed by:** | 20/05/2021 |
| **Report Issue Number:** | 1 | **Report issued on:** | 20/05/2021 |
| **Samples Analysed:** | 13 soil samples | | |

**Signed:**

Joanna Wawrzeczko
Technical Reviewer (Reporting Team)
**For & on behalf of i2 Analytical Ltd.**

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils - 4 weeks from reporting
leachates - 2 weeks from reporting
waters - 2 weeks from reporting
asbestos - 6 months from reporting

Excel copies of reports are only valid when accompanied by this PDF certificate.

Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement.
Application of uncertainty of measurement would provide a range within which the true result lies.
An estimate of measurement uncertainty can be provided on request.

This certificate should not be reproduced, except in full, without the express permission of the laboratory.
The results included within the report are representative of the samples submitted for analysis.

**Analytical Report Number: 21-74787**
**Project / Site name: Brockhampon West, Havant**
**Your Order No: DS59329**

| Lab Sample Number | | | | 1870229 | 1870230 | 1870231 | 1870232 | 1870233 |
|---|---|---|---|---|---|---|---|---|
| Sample Reference | | | | RO102 | RO107 | RO107 | RO103 | RO101 |
| Sample Number | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Depth (m) | | | | 21.80 | 1.85 | 3.00 | 17.00 | 14.50-14.95 |
| Date Sampled | | | | 22/02/2021 | 23/02/2021 | 23/02/2021 | 01/03/2021 | 04/03/2021 |
| Time Taken | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| **Analytical Parameter (Soil Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | | | | | |
| Stone Content | % | 0.1 | NONE | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Moisture Content | % | 0.01 | NONE | 15 | 6.8 | 15 | 16 | 19 |
| Total mass of sample received | kg | 0.001 | NONE | 1.0 | 0.50 | 0.50 | 0.50 | 0.50 |
| **General Inorganics** | | | | | | | | |
| pH - Automated | pH Units | N/A | MCERTS | 8.7 | - | 8.2 | 8.6 | - |
| Total Sulphate as SO4 | % | 0.005 | MCERTS | 0.054 | - | 0.092 | 0.107 | - |
| Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent) | g/l | 0.00125 | MCERTS | 0.033 | - | 0.33 | 0.32 | - |
| Total Sulphur | % | 0.005 | MCERTS | 0.016 | - | 0.038 | 0.030 | - |
| Total Organic Carbon (TOC) | % | 0.1 | MCERTS | - | 1.0 | - | - | 0.7 |

U/S = Unsuitable Sample  I/S = Insufficient Sample

This certificate should not be reproduced, except in full, without the express permission of the laboratory.
The results included within the report relate only to the sample(s) submitted for testing.

**Analytical Report Number: 21-74787**
**Project / Site name: Brockhampon West, Havant**
**Your Order No: DS59329**

| **Lab Sample Number** | | | | 1870234 | 1870235 | 1870236 | 1870237 | 1870238 |
|---|---|---|---|---|---|---|---|---|
| **Sample Reference** | | | | RO101 | RO101 | RO109 | RO105 | RO105 |
| **Sample Number** | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| **Depth (m)** | | | | 10.70-11.00 | 11.10-13.90 | 12.00-13.00 | 16.00-16.25 | 17.00-17.45 |
| **Date Sampled** | | | | 03/03/2021 | 04/03/2021 | 09/03/2021 | 10/03/2021 | 10/03/2021 |
| **Time Taken** | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| **Analytical Parameter (Soil Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | | | | | |
| Stone Content | % | 0.1 | NONE | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Moisture Content | % | 0.01 | NONE | 18 | 13 | 6.9 | 12 | 12 |
| Total mass of sample received | kg | 0.001 | NONE | 0.50 | 0.50 | 0.50 | 0.50 | 1.0 |

**General Inorganics**

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| pH - Automated | pH Units | N/A | MCERTS | 9.4 | - | - | 9.1 | - |
| Total Sulphate as SO4 | % | 0.005 | MCERTS | 0.054 | - | - | 0.051 | - |
| Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent) | g/l | 0.00125 | MCERTS | 0.29 | - | - | 0.037 | - |
| Total Sulphur | % | 0.005 | MCERTS | 0.024 | - | - | 0.015 | - |
| Total Organic Carbon (TOC) | % | 0.1 | MCERTS | 0.1 | 0.2 | 0.2 | - | < 0.1 |

U/S = Unsuitable Sample  I/S = Insufficient Sample

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The results included within the report relate only to the sample(s) submitted for testing.

**Analytical Report Number: 21-74787**
**Project / Site name: Brockhampon West, Havant**
**Your Order No: DS59329**

| **Lab Sample Number** | | | | 1870239 | 1870240 | 1870241 |
|---|---|---|---|---|---|---|
| **Sample Reference** | | | | RO104 | RO106 | RO106 |
| **Sample Number** | | | | None Supplied | None Supplied | None Supplied |
| **Depth (m)** | | | | 20.00-20.45 | 26.00-26.45 | 29.00-29.45 |
| **Date Sampled** | | | | 15/03/2021 | 18/03/2021 | 18/03/2021 |
| **Time Taken** | | | | None Supplied | None Supplied | None Supplied |
| **Analytical Parameter (Soil Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | | | |
| Stone Content | % | 0.1 | NONE | < 0.1 | < 0.1 | < 0.1 |
| Moisture Content | % | 0.01 | NONE | 15 | 15 | 18 |
| Total mass of sample received | kg | 0.001 | NONE | 1.0 | 1.0 | 1.0 |

**General Inorganics**

| | | | | | | |
|---|---|---|---|---|---|---|
| pH - Automated | pH Units | N/A | MCERTS | - | 8.9 | 8.8 |
| Total Sulphate as SO4 | % | 0.005 | MCERTS | - | 0.052 | 0.059 |
| Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent) | g/l | 0.00125 | MCERTS | - | 0.031 | 0.043 |
| Total Sulphur | % | 0.005 | MCERTS | - | 0.020 | 0.024 |
| Total Organic Carbon (TOC) | % | 0.1 | MCERTS | 0.3 | < 0.1 | - |

U/S = Unsuitable Sample  I/S = Insufficient Sample

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The results included within the report relate only to the sample(s) submitted for testing.

**Analytical Report Number : 21-74787**
**Project / Site name: Brockhampon West, Havant**

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

| Lab Sample Number | Sample Reference | Sample Number | Depth (m) | Sample Description * |
|---|---|---|---|---|
| 1870229 | RO102 | None Supplied | 21.8 | White chalk.** |
| 1870230 | RO107 | None Supplied | 1.85 | Light brown clay and sand with chalk. |
| 1870231 | RO107 | None Supplied | 3 | Brown clay and sand. |
| 1870232 | RO103 | None Supplied | 17 | Beige chalk with gravel.** |
| 1870233 | RO101 | None Supplied | 14.50-14.95 | Beige chalk with gravel.** |
| 1870234 | RO101 | None Supplied | 10.70-11.00 | Brown clay. |
| 1870235 | RO101 | None Supplied | 11.10-13.90 | Light brown sandy clay with gravel. |
| 1870236 | RO109 | None Supplied | 12.00-13.00 | Light brown sand with gravel. |
| 1870237 | RO105 | None Supplied | 16.00-16.25 | White chalk.** |
| 1870238 | RO105 | None Supplied | 17.00-17.45 | Beige chalk with gravel.** |
| 1870239 | RO104 | None Supplied | 20.00-20.45 | White chalk with gravel.** |
| 1870240 | RO106 | None Supplied | 26.00-26.45 | White chalk.** |
| 1870241 | RO106 | None Supplied | 29.00-29.45 | Beige chalk.** |

**Non MCERTS Matrix

**Analytical Report Number : 21-74787**
**Project / Site name: Brockhampon West, Havant**

**Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)**

| Analytical Test Name | Analytical Method Description | Analytical Method Reference | Method number | Wet / Dry Analysis | Accreditation Status |
|---|---|---|---|---|---|
| Sulphate, water soluble, in soil (16hr extraction) | Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent). | In house method. | L038-PL | D | MCERTS |
| Moisture Content | Moisture content, determined gravimetrically. (30 oC) | In house method. | L019-UK/PL | W | NONE |
| pH in soil (automated) | Determination of pH in soil by addition of water followed by automated electrometric measurement. | In house method. | L099-PL | D | MCERTS |
| Stones content of soil | Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight. | In-house method based on British Standard Methods and MCERTS requirements. | L019-UK/PL | D | NONE |
| Total organic carbon (Automated) in soil | Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate. | In house method. | L009-PL | D | MCERTS |
| Total Sulphate in soil as % | Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES. | In house method. | L038-PL | D | MCERTS |
| Total Sulphur in soil as % | Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES. | In house method. | L038-PL | D | MCERTS |

**For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.**
**For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.**
**Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.**

**Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.**

# Sample Deviation Report

**Analytical Report Number : 21-74787**
**Project / Site name: Brockhampon West, Havant**

| Sample ID | Other ID | Sample Type | Lab Sample Number | Sample Deviation | Test Name | Test Ref | Test Deviation |
|---|---|---|---|---|---|---|---|
| RO101 | None Supplied | S | 1870233 | c | Organic matter (Automated) in soil | L009-PL | c |
| RO101 | None Supplied | S | 1870233 | c | Total organic carbon (Automated) in soil | L009-PL | c |
| RO101 | None Supplied | S | 1870234 | c | Organic matter (Automated) in soil | L009-PL | c |
| RO101 | None Supplied | S | 1870234 | c | Total organic carbon (Automated) in soil | L009-PL | c |
| RO101 | None Supplied | S | 1870234 | c | pH in soil (automated) | L099-PL | c |
| RO101 | None Supplied | S | 1870235 | c | Organic matter (Automated) in soil | L009-PL | c |
| RO101 | None Supplied | S | 1870235 | c | Total organic carbon (Automated) in soil | L009-PL | c |
| RO102 | None Supplied | S | 1870229 | c | pH in soil (automated) | L099-PL | c |
| RO103 | None Supplied | S | 1870232 | c | pH in soil (automated) | L099-PL | c |
| RO104 | None Supplied | S | 1870239 | c | Organic matter (Automated) in soil | L009-PL | c |
| RO104 | None Supplied | S | 1870239 | c | Total organic carbon (Automated) in soil | L009-PL | c |
| RO105 | None Supplied | S | 1870237 | c | pH in soil (automated) | L099-PL | c |
| RO105 | None Supplied | S | 1870238 | c | Organic matter (Automated) in soil | L009-PL | c |
| RO105 | None Supplied | S | 1870238 | c | Total organic carbon (Automated) in soil | L009-PL | c |
| RO106 | None Supplied | S | 1870240 | c | Organic matter (Automated) in soil | L009-PL | c |
| RO106 | None Supplied | S | 1870240 | c | Total organic carbon (Automated) in soil | L009-PL | c |
| RO106 | None Supplied | S | 1870240 | c | pH in soil (automated) | L099-PL | c |
| RO106 | None Supplied | S | 1870241 | c | pH in soil (automated) | L099-PL | c |
| RO107 | None Supplied | S | 1870230 | c | Organic matter (Automated) in soil | L009-PL | c |
| RO107 | None Supplied | S | 1870230 | c | Total organic carbon (Automated) in soil | L009-PL | c |
| RO107 | None Supplied | S | 1870231 | c | pH in soil (automated) | L099-PL | c |
| RO109 | None Supplied | S | 1870236 | c | Organic matter (Automated) in soil | L009-PL | c |
| RO109 | None Supplied | S | 1870236 | c | Total organic carbon (Automated) in soil | L009-PL | c |

**Liane Baiao**
Delta-Simons
Suite 4a
One Portland Street
Manchester
M1 3BE

**e:** Liane.Baiao@deltasimons.com

i2 Analytical Ltd.
7 Woodshots Meadow,
Croxley Green
Business Park,
Watford,
Herts,
WD18 8YS

**t:** 01923 225404
**f:** 01923 237404
**e:** reception@i2analytical.com

# Analytical Report Number : 21-76247

| | | | |
|---|---|---|---|
| **Project / Site name:** | Brockhampton West Havant | **Samples received on:** | 20/05/2021 |
| **Your job number:** | 19-2099-04 | **Samples instructed on/ Analysis started on:** | 20/05/2021 |
| **Your order number:** | DS60240 | **Analysis completed by:** | 25/05/2021 |
| **Report Issue Number:** | 1 | **Report issued on:** | 25/05/2021 |
| **Samples Analysed:** | 6 soil samples | | |

**Signed:** Izabela Wójcik

Izabela Wójcik
Technical Reviewer (Reporting Team)
**For & on behalf of i2 Analytical Ltd.**

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils - 4 weeks from reporting
leachates - 2 weeks from reporting
waters - 2 weeks from reporting
asbestos - 6 months from reporting

Excel copies of reports are only valid when accompanied by this PDF certificate.

Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement.
Application of uncertainty of measurement would provide a range within which the true result lies.
An estimate of measurement uncertainty can be provided on request.

This certificate should not be reproduced, except in full, without the express permission of the laboratory.
The results included within the report are representative of the samples submitted for analysis.

**Analytical Report Number: 21-76247**
**Project / Site name: Brockhampton West Havant**
**Your Order No: DS60240**

| Lab Sample Number | | | | 1877723 | 1877724 | 1877725 | 1877726 | 1877727 |
|---|---|---|---|---|---|---|---|---|
| **Sample Reference** | | | | RO105 | RO106 | TP101 | TP106 | TP111 |
| **Sample Number** | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| **Depth (m)** | | | | 6.00-7.00 | 11.00-11.50 | 2.50-3.00 | 3.00 | 2.00 |
| **Date Sampled** | | | | 10/03/2021 | 17/03/2021 | 29/03/2021 | 06/04/2021 | 06/04/2021 |
| **Time Taken** | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| **Analytical Parameter (Soil Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | | | | | |
| Stone Content | % | 0.1 | NONE | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Moisture Content | % | 0.01 | NONE | 32 | 53 | 16 | 18 | 14 |
| Total mass of sample received | kg | 0.001 | NONE | 1.0 | 1.0 | 0.30 | 0.30 | 0.30 |
| **General Inorganics** | | | | | | | | |
| Loss on Ignition @ 450oC | % | 0.2 | MCERTS | 8.1 | 10.4 | 4.5 | 6.1 | 3.9 |

U/S = Unsuitable Sample  I/S = Insufficient Sample

This certificate should not be reproduced, except in full, without the express permission of the laboratory.
The results included within the report relate only to the sample(s) submitted for testing.

**Analytical Report Number: 21-76247**
**Project / Site name: Brockhampton West Havant**
**Your Order No: DS60240**

| **Lab Sample Number** | | | | 1877728 |
|---|---|---|---|---|
| **Sample Reference** | | | | TP117 |
| **Sample Number** | | | | None Supplied |
| **Depth (m)** | | | | 2.50-3.00 |
| **Date Sampled** | | | | 31/03/2021 |
| **Time Taken** | | | | None Supplied |
| **Analytical Parameter (Soil Analysis)** | **Units** | **Limit of detection** | **Accreditation Status** | |
| Stone Content | % | 0.1 | NONE | < 0.1 |
| Moisture Content | % | 0.01 | NONE | 18 |
| Total mass of sample received | kg | 0.001 | NONE | 0.30 |
| **General Inorganics** | | | | |
| Loss on Ignition @ 450oC | % | 0.2 | MCERTS | 4.9 |

U/S = Unsuitable Sample  I/S = Insufficient Sample

This certificate should not be reproduced, except in full, without the express permission of the laboratory.
The results included within the report relate only to the sample(s) submitted for testing.

**Analytical Report Number : 21-76247**
**Project / Site name: Brockhampton West Havant**

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

| Lab Sample Number | Sample Reference | Sample Number | Depth (m) | Sample Description * |
|---|---|---|---|---|
| 1877723 | RO105 | None Supplied | 6.00-7.00 | Brown loam and clay with gravel and vegetation. |
| 1877724 | RO106 | None Supplied | 11.00-11.50 | Brown clay with plastic. |
| 1877725 | TP101 | None Supplied | 2.50-3.00 | Brown sandy gravel with gravel and glass.** |
| 1877726 | TP106 | None Supplied | 3 | Brown loam and clay with gravel and glass. |
| 1877727 | TP111 | None Supplied | 2 | Brown loam and clay with gravel. |
| 1877728 | TP117 | None Supplied | 2.50-3.00 | Brown clay and loam with gravel and vegetation. |

**Non MCERTS Matrix.

**Analytical Report Number : 21-76247**
**Project / Site name: Brockhampton West Havant**

**Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)**

| Analytical Test Name | Analytical Method Description | Analytical Method Reference | Method number | Wet / Dry Analysis | Accreditation Status |
|---|---|---|---|---|---|
| Loss on ignition of soil @ 450oC | Determination of loss on ignition in soil by gravimetrically with the sample being ignited in a muffle furnace. | In house method. | L047-PL | D | MCERTS |
| Moisture Content | Moisture content, determined gravimetrically. (30 oC) | In house method. | L019-UK/PL | W | NONE |
| Stones content of soil | Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight. | In-house method based on British Standard Methods and MCERTS requirements. | L019-UK/PL | D | NONE |

**For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.**
**For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.**
**Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.**

**Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.**

# Sample Deviation Report

**Analytical Report Number : 21-76247**
**Project / Site name: Brockhampton West Havant**

| Sample ID | Other ID | Sample Type | Lab Sample Number | Sample Deviation | Test Name | Test Ref | Test Deviation |
|---|---|---|---|---|---|---|---|
| RO105 | None Supplied | S | 1877723 | c | Loss on ignition of soil @ 450oC | L047-PL | c |
| RO106 | None Supplied | S | 1877724 | c | Loss on ignition of soil @ 450oC | L047-PL | c |
| TP101 | None Supplied | S | 1877725 | c | Loss on ignition of soil @ 450oC | L047-PL | c |
| TP106 | None Supplied | S | 1877726 | c | Loss on ignition of soil @ 450oC | L047-PL | c |
| TP111 | None Supplied | S | 1877727 | c | Loss on ignition of soil @ 450oC | L047-PL | c |
| TP117 | None Supplied | S | 1877728 | c | Loss on ignition of soil @ 450oC | L047-PL | c |

MURRAY RIX
CONSULTANCY, SITE INVESTIGATION
CONSTRUCTION MATERIALS TESTING

# TEST REPORT

| | |
|---|---|
| **Client** | i2 Analytical Ltd |
| **Address** | 7 Woodshots Meadow<br>Croxley Green Business Park<br>Watford<br>Herts<br>WD18 8YS |
| **Contract** | 21-76330 – Brockhampton West, Havant |
| **Job Number** | MRN 4710/48 |
| **Date of Issue** | 09 July 2021 |
| **Page** | **1 of 4** |

Approved Signatories

S J Hutchings, O P Davies

Notes

1 All remaining samples and remnants from this contract will be disposed 28 days from the date of this report unless you notify us to the contrary.

2 Result certificates, in this report, not bearing a UKAS mark, are not included in our UKAS accreditation schedule.

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

4 Certified that the samples have been examined and tested in accordance with the terms of the contract/order and unless otherwise stated conform to the standards/specifications quoted.

5 The results included within the report are representative of the samples submitted for analysis.

6 This certificate should not be reproduced, except in full, without the express permission of the laboratory.

form triaperm

# MURRAY RIX

ANDREW HOUSE, HADFIELD STREET,
DUKINFIELD, CHESHIRE SK16 4QX
TEL 0161 475 0870

UKAS TESTING 1560

## TEST CERTIFICATE

DETERMINATION OF CONSTANT HEAD PERMEABILITY IN THE TRIAXIAL CELL
BS 1377 : Part 6 : Clause 6 : 1990

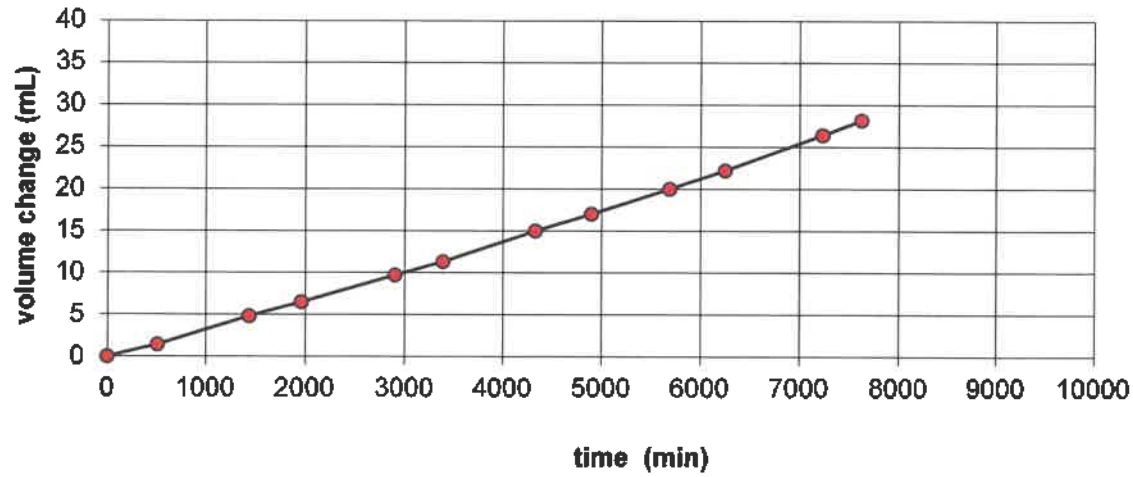
| | |
|---|---|
| CLIENT | i2 Analytical Ltd |
| SITE | 21-76330 Brockhampton West, Havant |
| JOB NUMBER | MRN 4710/48 |

| | | | |
|---|---|---|---|
| SAMPLE LABEL | BH105 15.0 to 15.45m | DATE SAMPLED | Not Advised |
| LAB SAMPLE No. | 99344 | DATE RECEIVED | 26/05/2021 |
| DATE TESTED | 31/05/2021 | SAMPLED BY | Client |

| | |
|---|---|
| MATERIAL | Off white highly weathered CHALK |
| ADVISED SOURCE | Site Won |
| PRE TREATMENT | Recompacted at as received moisture content using the 2.5kg rammer |

| INITIAL CONDITIONS | | FINAL CONDITIONS | | PERMEABILITY STAGE | | |
|---|---|---|---|---|---|---|
| Height | 100 mm | | | Mean Effective Stress | 100 | kPa |
| Diameter | 100 mm | | | Cell Pressure | 415 | kPa |
| Bulk Density | 1.91 Mg/m3 | Bulk Density | 1.96 Mg/m3 | Base Pressure | 330 | kPa |
| Moist. cont. | 22 % | Moist. cont. | 23 % | Top Pressure | 300 | kPa |
| Dry Density | 1.57 Mg/m3 | Dry Density | 1.60 Mg/m3 | Differential Head | 30 | kPa |
| Flow Direction | vertical upwards | | | Temperature | 20 | deg. C |
| | | | | Steady State Flow | 4.38E-03 | ml/min |

**Permeability (k) 3.0E-10 m/sec**




Remarks/Abnormalities
Method of Saturation = Cell and Back Pressure
Value of pore pressure coefficient, B, achieved = 0.95
Undisturbed sample broke apart during trimming so was recompacted at the as received moisture content using the 2.5kg rammer

Signed

Name S.J. Hutchings (Director) Date 09-Jul-21

form triaperm

# MURRAY RIX

ANDREW HOUSE, HADFIELD STREET,
DUKINFIELD, CHESHIRE SK16 4QX
TEL 0161 475 0870

## TEST CERTIFICATE

DETERMINATION OF CONSTANT HEAD PERMEABILITY IN THE TRIAXIAL CELL
BS 1377 : Part 6 : Clause 6 : 1990

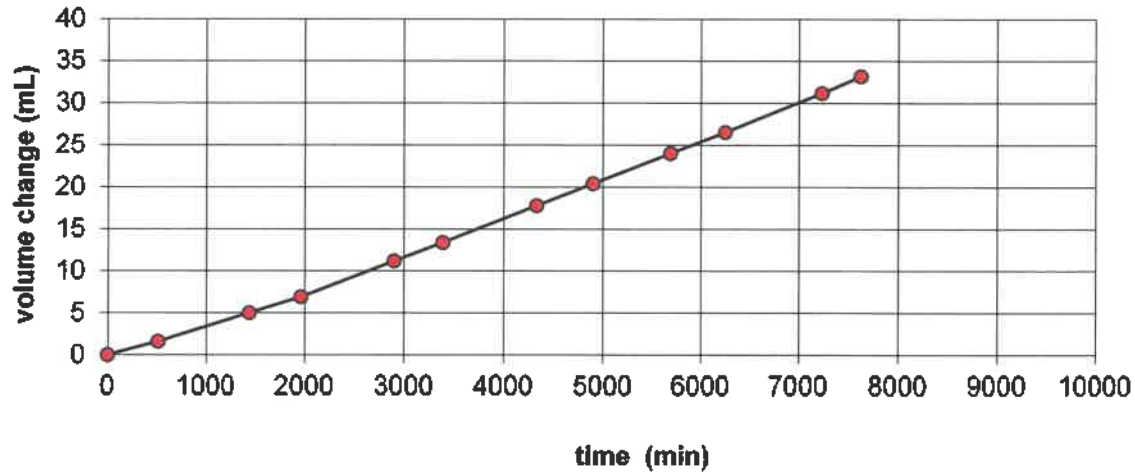
| | |
|---|---|
| CLIENT | i2 Analytical Ltd |
| SITE | 21-76330 Brockhampton West, Havant |
| JOB NUMBER | MRN 4710/48 |

| | | | |
|---|---|---|---|
| SAMPLE LABEL | BH104 14.5 to 14.95m | DATE SAMPLED | Not Advised |
| LAB SAMPLE No. | 99345 | DATE RECEIVED | 26/05/2021 |
| DATE TESTED | 31/05/2021 | SAMPLED BY | Client |

| | |
|---|---|
| MATERIAL | Off white highly weathered CHALK |
| ADVISED SOURCE | Site Won |
| PRE TREATMENT | Recompacted at as received moisture content using the 2.5kg rammer |

| INITIAL CONDITIONS | | FINAL CONDITIONS | | PERMEABILITY STAGE | | |
|---|---|---|---|---|---|---|
| Height | 100 mm | | | Mean Effective Stress | 100 | kPa |
| Diameter | 100 mm | | | Cell Pressure | 415 | kPa |
| Bulk Density | 1.84 Mg/m3 | Bulk Density | 1.94 Mg/m3 | Base Pressure | 330 | kPa |
| Moist. cont. | 24 % | Moist. cont. | 26 % | Top Pressure | 300 | kPa |
| Dry Density | 1.48 Mg/m3 | Dry Density | 1.55 Mg/m3 | Differential Head | 30 | kPa |
| Flow Direction | vertical upwards | | | Temperature | 20 | deg. C |
| | | | | Steady State Flow | 4.89E-03 | ml/min |

**Permeability (k) 3.4E-10 m/sec**




Remarks/Abnormalities
Method of Saturation = Cell and Back Pressure
Value of pore pressure coefficient, B, achieved = 0.95
Undisturbed sample broke apart during trimming so was recompacted at the as received moisture content using the 2.5kg rammer
Signed

Name S.J. Hutchings (Director) Date 09-Jul-21

form triaperm

# MURRAY RIX

ANDREW HOUSE, HADFIELD STREET,
DUKINFIELD, CHESHIRE SK16 4QX
TEL 0161 475 0870

## TEST CERTIFICATE

DETERMINATION OF CONSTANT HEAD PERMEABILITY IN THE TRIAXIAL CELL
BS 1377 : Part 6 : Clause 6 : 1990

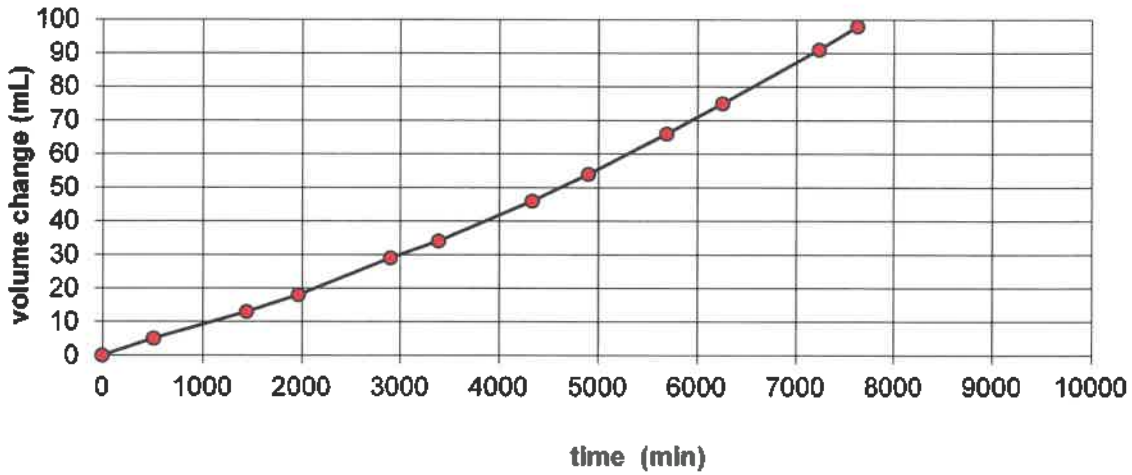
| | |
|---|---|
| CLIENT | i2 Analytical Ltd |
| SITE | 21-76330 Brockhampton West, Havant |
| JOB NUMBER | MRN 4710/48 |

| | | | |
|---|---|---|---|
| SAMPLE LABEL | BH106 15.0 to 15.45m | DATE SAMPLED | Not Advised |
| LAB SAMPLE No. | 99346 | DATE RECEIVED | 26/05/2021 |
| DATE TESTED | 31/05/2021 | SAMPLED BY | Client |

| | |
|---|---|
| MATERIAL | Friable light brown and white mottled CLAY with frequent fine to medium gravel |
| ADVISED SOURCE | Site Won |
| PRE TREATMENT | Recompacted at as received moisture content using the 2.5kg rammer |

| INITIAL CONDITIONS | | FINAL CONDITIONS | | PERMEABILITY STAGE | | |
|---|---|---|---|---|---|---|
| Height | 100 mm | | | Mean Effective Stress | 100 | kPa |
| Diameter | 100 mm | | | Cell Pressure | 415 | kPa |
| Bulk Density | 2.09 Mg/m3 | Bulk Density | 2.16 Mg/m3 | Base Pressure | 330 | kPa |
| Moist. cont. | 11 % | Moist. cont. | 14 % | Top Pressure | 300 | kPa |
| Dry Density | 1.89 Mg/m3 | Dry Density | 1.91 Mg/m3 | Differential Head | 30 | kPa |
| Flow Direction | vertical upwards | | | Temperature | 20 | deg. C |
| | | | | Steady State Flow | 1.68E-02 | ml/min |

**Permeability (k) 1.2E-09 m/sec**




Remarks/Abnormalities
Method of Saturation = Cell and Back Pressure
Value of pore pressure coefficient, B, achieved = 0.95
Undisturbed sample broke apart during trimming so was recompacted at the as received moisture content using the 2.5kg rammer
Signed

Name S.J. Hutchings (Director) Date 09-Jul-21

# TEST CERTIFICATE

**Unconsolidated Undrained**

**Triaxial Compression**

Tested in Accordance with:
BS 1377-7: 1990: Clause 8

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

UKAS TESTING 4041

Environmental Science

| | | | |
|---|---|---|---|
| Client: | Delta-Simons | Client Reference: | 19-2099.04 |
| Client Address: | Suite C1, Joseph's Well,<br>Hanover Walk, Leeds,<br>LS3 1AB | Job Number: | 21-87374 |
| | | Date Sampled: | 23/02/2021 |
| | | Date Received: | 06/05/2021 |
| Contact: | David Jackson | Date Tested: | 21/07/2021 |
| Site Address: | Brockhampton West, Havant | Sampled By: | Not Given |

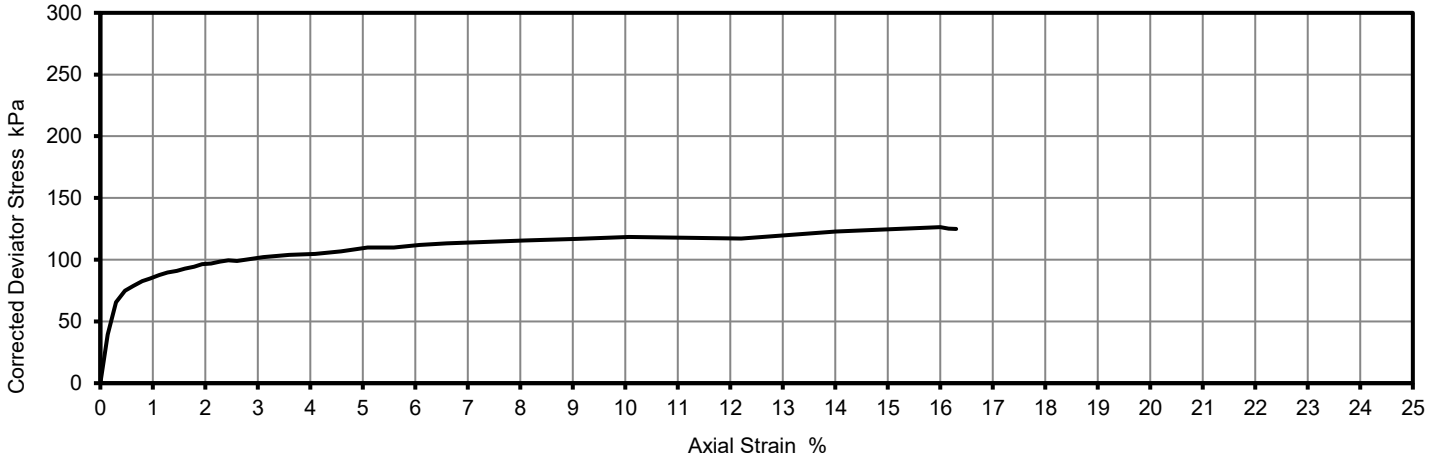
*Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland*

**Test Results:**

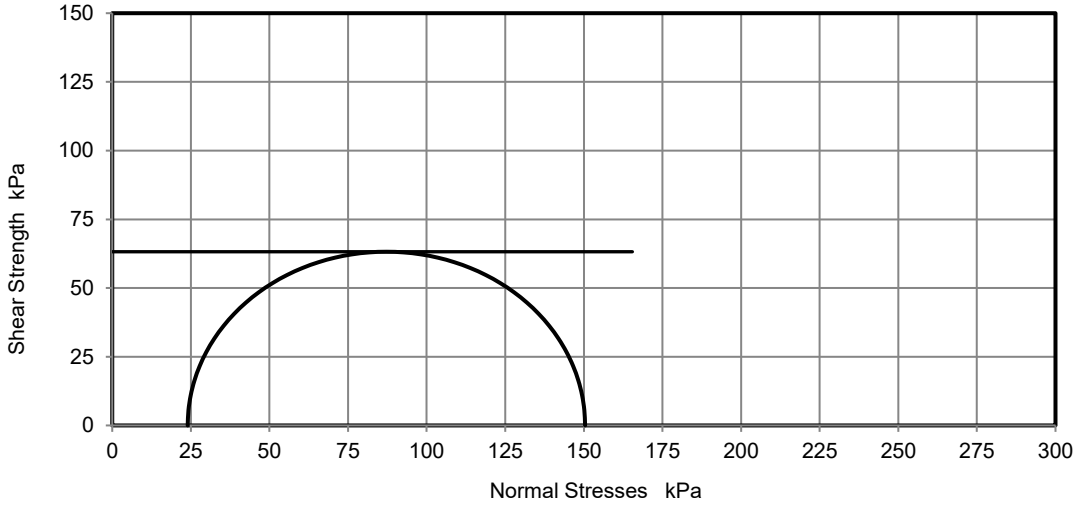
| | | | |
|---|---|---|---|
| Laboratory Reference: | 1940616 | Depth Top [m]: | 1.20 |
| Hole No.: | RO107 | Depth Base [m]: | 1.65 |
| Sample Reference: | Not Given | Sample Type: | U |
| Sample Description: | Brown gravelly CLAY | | |

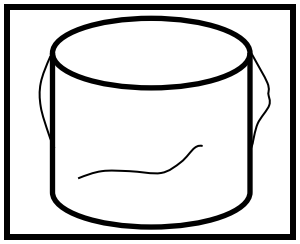
| | | | | | | |
|---|---|---|---|---|---|---|
| Test Number | 1 | | Rate of Strain | 1.97 | %/min | |
| Length | 202.81 | mm | Cell Pressure | 24 | kPa | |
| Diameter | 102.55 | mm | Axial Strain at failure | 16.0 | % | |
| Bulk Density | 2.09 | Mg/m3 | Deviator Stress, ( σ1 - σ3 )f | 126 | kPa | |
| Moisture Content | 17 | % | Undrained Shear Strength, cu | 63 | kPa | ½( σ1 - σ3 )f |
| Dry Density | 1.79 | Mg/m3 | Mode of Failure | Compound | | |
| Membrane Correction | 0.84 | kPa | Membrane thickness | 0.27 | mm | |

**Deviator Stress v Axial Strain**

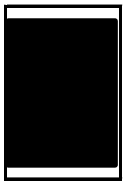



**Mohr Circles**



Position within sample



Note: Deviator stress corrected for area change and membrane effects. Mohr circles and their interpretation is not covered by BS1377. This is provided for information only.

Remarks: Unable to take a photo.

Opinions and interpretations expressed herein are outside of the scope of the UKAS Accreditation. This report may not be reproduced other than in full without the prior written approval of the issuing laboratory. The results included within the report relate only to the sample(s) submitted for testing.

**Signed:**

Szczepan Bielatowicz
PL Deputy Head of Geotechnical Section
**for and on behalf of i2 Analytical Ltd**



**Date Reported:** 22/07/2021

**GF 184.11**

# TEST CERTIFICATE

**Unconsolidated Undrained**

**Triaxial Compression**

Tested in Accordance with:
BS 1377-7: 1990: Clause 8

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

UKAS TESTING 4041

Environmental Science

| | | | |
|---|---|---|---|
| Client: | Delta-Simons | Client Reference: | 19-2099.04 |
| Client Address: | Suite C1, Joseph's Well,<br>Hanover Walk, Leeds,<br>LS3 1AB | Job Number: | 21-87374 |
| | | Date Sampled: | 08/03/2021 |
| | | Date Received: | 06/05/2021 |
| Contact: | David Jackson | Date Tested: | 21/07/2021 |
| Site Address: | Brockhampton West, Havant | Sampled By: | Not Given |

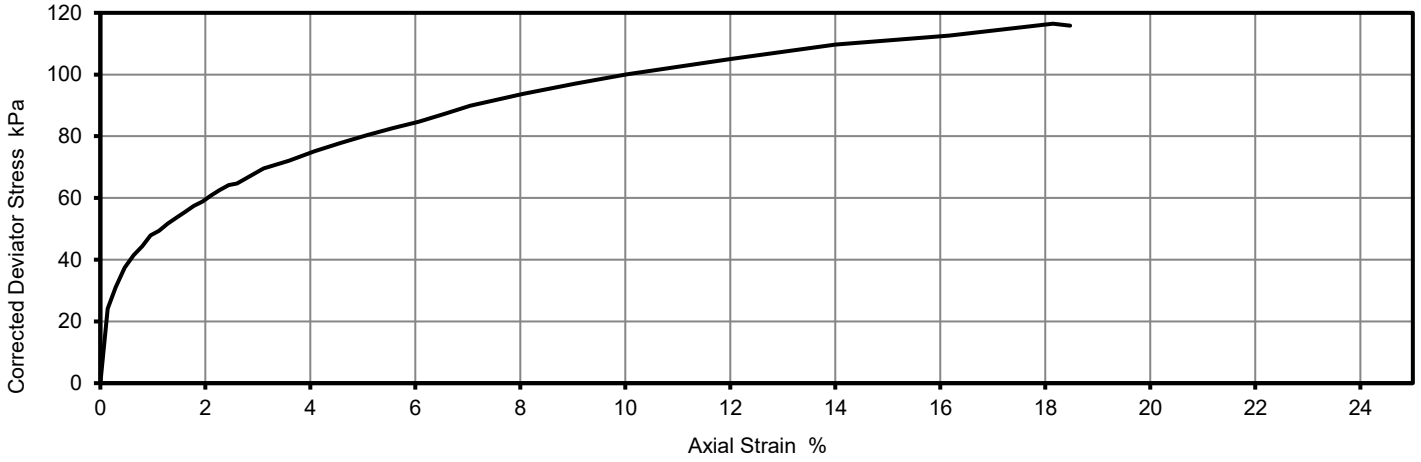
*Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland*

**Test Results:**

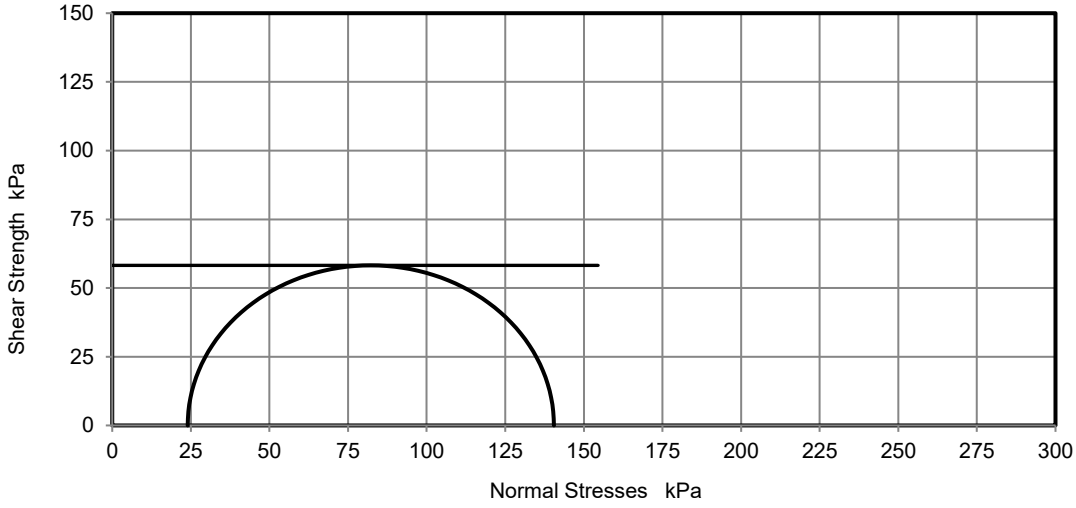
| | | | |
|---|---|---|---|
| Laboratory Reference: | 1940617 | Depth Top [m]: | 1.20 |
| Hole No.: | RO109 | Depth Base [m]: | 1.65 |
| Sample Reference: | Not Given | Sample Type: | U |
| Sample Description: | Brown slightly gravelly CLAY | | |

| | | | | | | |
|---|---|---|---|---|---|---|
| Test Number | 1 | | Rate of Strain | 1.96 | %/min | |
| Length | 203.82 | mm | Cell Pressure | 24 | kPa | |
| Diameter | 102.59 | mm | Axial Strain at failure | 18.1 | % | |
| Bulk Density | 2.02 | Mg/m3 | Deviator Stress, ( σ1 - σ3 )f | 116 | kPa | |
| Moisture Content | 28 | % | Undrained Shear Strength, cu | 58 | kPa | ½( σ1 - σ3 )f |
| Dry Density | 1.58 | Mg/m3 | Mode of Failure | Compound | | |
| Membrane Correction | 0.86 | kPa | Membrane thickness | 0.25 | mm | |

**Deviator Stress v Axial Strain**

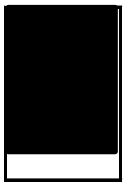



**Mohr Circles**






Position within sample



Note: Deviator stress corrected for area change and membrane effects. Mohr circles and their interpretation is not covered by BS1377. This is provided for information only.

Remarks:

Opinions and interpretations expressed herein are outside of the scope of the UKAS Accreditation. This report may not be reproduced other than in full without the prior written approval of the issuing laboratory. The results included within the report relate only to the sample(s) submitted for testing.

**Signed:**

Szczepan Bielatowicz
PL Deputy Head of Geotechnical Section
**for and on behalf of i2 Analytical Ltd**



**Date Reported:** 22/07/2021

**GF 184.11**

# Appendix H – Gas and Groundwater Monitoring Data

| Site Name | Brockhampton West, Havant | Job number | 19-2099.04 |
|---|---|---|---|
| Client | Clowes Developments (UK) Ltd | Recorded by | HB |
| Date (DD/MM/YYYY) | 22/3/21 - 23/3/21 | | |
| Gas Analyser | GFM436 (GSOU-NOT) - 13037 | Visit Number | 1 |

| Readings at start | $CH_4$ (% v/v) | 0.1 | $CO_2$ (% v/v) | 0.1 | $O_2$ (% v/v) | 21.0 | $H_2S$ (ppm) | <0.1 | |
|---|---|---|---|---|---|---|---|---|---|
| General comments | | | | | | | | | |

| WEATHER | Start | End |
|---|---|---|
| Time | 09:00 | 12:00 |
| Weather (dry/rain/snow/ice) | Dry | Sunny |
| Pressure (mb) | 1031.00 | |
| Risking/Falling Trend | Falling | |
| Wind Speed (m/s) | <0.1 | <0.1 |
| Wind Dir. (From) | S | S |
| Temperature °C | 7.00 | |
| SWL Measured from | Top Of Cover | |

| Ref | GROUND GAS | | | | | | | | | | | | | GROUNDWATER | | | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Flow | | $CH_4$ | | $CO_2$ | | $O_2$ | | $H_2S$ | CO | VOC | Differential (Relative) Pressure | Atmos. Pressure | Depth to free product | Depth to water | Depth to base | (e.g. water colour, sheen, odour, damage to well or gas tap, flooded ground etc.)<br>$ For **Depth to water** state<br>**Depth to water or Dry or NR (= Not Recorded - provide reason if monitoring was intended)**<br># For Depth to Product state<br>**ND (= Not detected - product looked for but absent) or NR (= Not Recorded - instrument used unable to detect product)** |
| | l/hr | | % v/v | | % v/v | | % v/v | | ppm | | | mb | mb | m | m | m | |
| | Max | Steady | Max | Steady | Max | Steady | Min | Steady | Max | Max | Max | | | | | | |
| | The formulae require that only numbers, "<0.1" for ground gas and flow or "DRY" for groundwater are entered in the sheet | | | | | | | | | | | | | | | | |
| RO101 (S) | 0.2 | 0.1 | 65.0 | 65.0 | 25.5 | 25.5 | 0.1 | 0.1 | 1.0 | 1.0 | <0.1 | 0.2 | 1025 | ND | 7.93 | 10.23 | |
| RO102 (S) | 0.4 | 0.3 | 58.8 | 58.8 | 19.2 | 19.7 | <0.1 | <0.1 | 10.0 | 2.0 | 0.2 | 0.5 | 1031 | ND | 7.57 | 8.57 | |
| RO103 (S) | 0.1 | 0.1 | 58.6 | 58.6 | 21.6 | 21.6 | 0.2 | 0.2 | 26.0 | 1.0 | 0.1 | 0.5 | 1031 | ND | 7.25 | 9.07 | |
| RO104 (S) | 0.1 | 0.1 | 31.4 | 31.4 | 17.7 | 17.7 | 0.5 | 0.5 | <0.1 | 2.0 | <0.1 | 0.5 | 1031 | ND | Dry | 9.87 | |
| RO105 (S) | -0.2 | -0.2 | 10.1 | 10.1 | 5.1 | 5.1 | 16.1 | 16.1 | <0.1 | <0.1 | <0.1 | 0.5 | 1031 | ND | 2.54 | 10.92 | |
| RO106 (S) | <0.1 | <0.1 | 28.5 | 28.5 | 15.4 | 15.4 | 0.3 | 0.3 | <0.1 | <0.1 | 0.1 | 0.5 | 1028 | ND | 10.60 | 14.14 | |
| RO107 (D) | 0.3 | 0.3 | 27.2 | 27.2 | 11.2 | 11.2 | 2.8 | 2.8 | <0.1 | 3.0 | <0.1 | 1.0 | 1026 | ND | 9.57 | 20.01 | |
| RO108 (D) | -0.1 | -0.1 | <0.1 | <0.1 | <0.1 | <0.1 | 21.2 | 21.2 | <0.1 | <0.1 | <0.1 | <0.1 | 1025 | ND | 7.43 | 19.26 | |
| RO109 (D) | -0.9 | -0.9 | 1.3 | 1.1 | 0.5 | 0.5 | 20.0 | 20.1 | <0.1 | <0.1 | <0.1 | 0.1 | 1027 | ND | 8.71 | 19.82 | |
| DS101 | <0.1 | <0.1 | 1.4 | 1.4 | 1.1 | 1.1 | 18.7 | 18.7 | <0.1 | 11.0 | <0.1 | 1.0 | 1026 | ND | 8.84 | 13.30 | |
| DS102 | <0.1 | <0.1 | 0.2 | 0.2 | 0.3 | 0.3 | 21.1 | 21.1 | <0.1 | 2.0 | <0.1 | 1.0 | 1026 | ND | 9.65 | 12.84 | |
| DS103 | <0.1 | <0.1 | 0.2 | 0.2 | 0.7 | 0.7 | 20.2 | 20.2 | <0.1 | 7.0 | <0.1 | 1.0 | 1026 | ND | 8.34 | 11.04 | |
| CP02A (S) | -0.1 | -0.1 | 0.1 | 0.1 | 1.7 | 1.7 | 19.5 | 19.5 | <0.1 | <0.1 | <0.1 | 1.0 | 1026 | ND | 7.98 | 9.63 | |
| CP02A (D) | <0.1 | <0.1 | 0.1 | 0.1 | 0.9 | 0.9 | 20.5 | 20.5 | <0.1 | <0.1 | <0.1 | 1.0 | 1026 | ND | 9.54 | 27.67 | |
| CP03 (S) | 0.1 | 0.1 | 56.6 | 25.6 | 24.7 | 27.4 | 0.7 | 0.7 | <0.1 | <0.1 | 0.1 | 1.0 | 1026 | ND | 7.34 | 9.22 | |
| CP03 (D) | <0.1 | <0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 20.9 | 20.9 | <0.1 | <0.1 | <0.1 | 1.0 | 1026 | ND | 7.49 | 27.44 | |
| CP05 (S) | <0.1 | <0.1 | 43.7 | 43.6 | 26.3 | 26.3 | 0.1 | 0.1 | <0.1 | <0.1 | <0.1 | 1.0 | 1026 | ND | 6.75 | 11.80 | |



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deltasimons

| Site Name | Brockhampton West, Havant | Job number | 19-2099.04 | WEATHER | Start | End |
|---|---|---|---|---|---|---|
| | | | | Time | 08:30 | 12:30 |
| Client | Clowes Developments (UK) Ltd | Recorded by | HB | Weather (dry/rain/snow/ice) | DRY | DRY |
| | | | | Pressure (mb) | 1017.00 | 1016.00 |
| Date (DD/MM/YYYY) | 20/04/2021 | | | Risking/Falling Trend | Falling | |
| Gas Analyser | GFM436 (GSOU-NOT) - 13037 | Visit Number | 2 | Wind Speed (m/s) | NR | NR |
| Readings at start | $CH_4$ (% v/v) <0.1 | $CO_2$ (% v/v) <0.1 | $O_2$ (% v/v) 20.3 | $H_2S$ (ppm) <0.1 | | |
| | | | | Wind Dir. (From) | NR | NR |
| General comments | Water level across the site recorded within a 1 hour period | | | Temperature °C | 10.00 | |
| | | | | SWL Measured from | Ground Level | |

| Ref | GROUND GAS | | | | | | | | | | | | | GROUNDWATER | | | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Flow | | $CH_4$ | | $CO_2$ | | $O_2$ | | $H_2S$ | CO | VOC | Differential (Relative) Pressure | Atmos. Pressure | Depth to free product | Depth to water | Depth to base | (e.g. water colour, sheen, odour, damage to well or gas tap, flooded ground etc.)<br>$ For **Depth to water** state<br>**Depth to water or Dry or NR (= Not Recorded - provide reason if monitoring was intended)**<br># **For Depth to Product state**<br>**ND (= Not detected - product looked for but absent) or NR (= Not Recorded - instrument used unable to detect product)** |
| | l/hr | | % v/v | | % v/v | | % v/v | | ppm | | | mb | mb | m | m | m | |
| | Max | Steady | Max | Steady | Max | Steady | Min | Steady | Max | Max | Max | | | | | | |
| | The formulae require that only numbers, "<0.1" for ground gas and flow or "DRY" for groundwater are entered in the sheet | | | | | | | | | | | | | | | | |
| RO101 (S) | <0.1 | <0.1 | 37.1 | 37.1 | 20.4 | 20.4 | <0.1 | <0.1 | <0.1 | <0.1 | 1.1 | <0.1 | 1017 | NR | 8.15 | 10.16 | |
| RO102 (S) | <0.1 | <0.1 | 62.8 | 62.8 | 25.1 | 25.1 | <0.1 | <0.1 | <0.1 | 10.0 | 0.1 | <0.1 | 1019.0 | NR | 8.29 | 8.41 | |
| RO103 (S) | <0.1 | <0.1 | 63.1 | 63.1 | 26.9 | 26.9 | <0.1 | <0.1 | 30.0 | <0.1 | 0.8 | <0.1 | 1017 | NR | 8.00 | 9.07 | |
| RO104 (S) | <0.1 | <0.1 | 14.3 | 14.3 | 9.4 | 9.4 | 2.4 | 2.4 | <0.1 | <0.1 | 1.2 | <0.1 | 1019.0 | NR | 8.40 | 10.37 | |
| RO105 (S) | <0.1 | <0.1 | 11.5 | 11.5 | 13.2 | 13.2 | 2.5 | 2.5 | <0.1 | <0.1 | 3.2 | <0.1 | 1015 | NR | 8.39 | 11.00 | |
| RO106 (S) | <0.1 | <0.1 | 40.3 | 40.3 | 20.4 | 20.4 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | 1019.0 | NR | 11.08 | 14.08 | |
| RO107 (D) | <0.1 | <0.1 | 35.0 | 35.0 | 17.9 | 17.9 | 0.7 | 0.7 | <0.1 | 10.0 | 0.9 | <0.1 | 1019 | NR | 9.30 | 20.25 | |
| RO108 (D) | <0.1 | <0.1 | <0.1 | <0.1 | 0.1 | 0.1 | 20.7 | 20.7 | <0.1 | <0.1 | <0.1 | <0.1 | 1015 | NR | 7.31 | 19.37 | |
| RO109 (D) | <0.1 | <0.1 | 0.1 | 0.1 | 0.4 | 0.4 | 20.3 | 20.3 | <0.1 | <0.1 | <0.1 | <0.1 | 1017 | NR | 8.75 | 19.82 | |
| DS101 | <0.1 | <0.1 | 2.8 | 2.8 | 2.1 | 2.1 | 15.8 | 15.8 | <0.1 | 10.0 | <0.1 | <0.1 | 1017.0 | NR | 8.39 | 11.03 | |
| DS102 | <0.1 | <0.1 | 32.2 | 32.2 | 0.1 | 0.1 | 2.1 | 2.1 | <0.1 | 46.0 | <0.1 | <0.1 | 1016 | NR | 9.65 | 12.80 | |
| DS103 | <0.1 | <0.1 | 15.3 | 15.3 | 8.9 | 8.9 | 9.3 | 9.3 | <0.1 | <0.1 | 0.5 | <0.1 | 1016.0 | NR | 9.00 | 12.71 | |
| CP02A (S) | <0.1 | <0.1 | 0.2 | 0.2 | 0.8 | 0.8 | 19.8 | 19.8 | <0.1 | <0.1 | <0.1 | <0.1 | 1019.0 | NR | 8.33 | 9.23 | |
| CP02A (D) | <0.1 | <0.1 | 15.3 | 15.3 | 15.3 | 15.3 | 7.5 | 7.5 | <0.1 | <0.1 | <0.1 | <0.1 | 1015 | NR | 9.25 | 27.87 | |
| CP03 (S) | <0.1 | <0.1 | 48.1 | 48.1 | 23.5 | 23.5 | 0.9 | 0.9 | <0.1 | <0.1 | <0.1 | <0.1 | 1016 | NR | 2.08 | 8.47 | |
| CP03 (D) | <0.1 | <0.1 | <0.1 | <0.1 | 0.6 | 0.6 | 20.4 | 20.4 | <0.1 | <0.1 | 0.2 | <0.1 | 1017 | NR | 7.21 | 26.99 | |
| CP05 (S) | <0.1 | <0.1 | 47.3 | 47.3 | 24.8 | 24.8 | 0.2 | 0.2 | <0.1 | <0.1 | 0.5 | <0.1 | 1015 | NR | 6.58 | 10.62 | |



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| Site Name | Brockhampton West, Havant | Job number | 19-2099.04 | WEATHER | Start | End |
|---|---|---|---|---|---|---|
| | | | | Time | 13:00 | 15:20 |
| Client | Clowes Developments (UK) Ltd | Recorded by | TA | Weather (dry/rain/snow/ice) | Dry | Dry |
| | | | | Pressure (mb) | 1004.00 | 1002.00 |
| Date (DD/MM/YYYY) | 04/05/2021 | | | Risking/Falling Trend | Falling | |
| Gas Analyser | GFM436 (GSOU-NOT) - 13037 | Visit Number | 3 | Wind Speed (m/s) | 9.83 | 8.94 |
| Readings at start | $CH_4$ (% v/v) <0.1 | $CO_2$ (% v/v) <0.1 | $O_2$ (% v/v) 20.6 | $H_2S$ (ppm) <0.1 | | Wind Dir. (From) | W | W |
| General comments | Water level across the site recorded within a 1 hour period | | | | | Temperature °C | 11.00 | |
| | | | | | | SWL Measured from | Ground Level | |

| Ref | GROUND GAS | | | | | | | | | | | | | GROUNDWATER | | | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Flow | | $CH_4$ | | $CO_2$ | | $O_2$ | | $H_2S$ | CO | VOC | Differential (Relative) Pressure | Atmos. Pressure | Depth to free product | Depth to water | Depth to base | (e.g. water colour, sheen, odour, damage to well or gas tap, flooded ground etc.)<br>$ For **Depth to water** state<br>**Depth to water or Dry or NR (= Not Recorded - provide reason if monitoring was intended)**<br># **For Depth to Product state**<br>**ND (= Not detected - product looked for but absent) or NR (= Not Recorded - instrument used unable to detect product)** |
| | l/hr | | % v/v | | % v/v | | % v/v | | ppm | | | mb | mb | m | m | m | |
| | Max | Steady | Max | Steady | Max | Steady | Min | Steady | Max | Max | Max | | | | | | |
| | The formulae require that only numbers, "<0.1" for ground gas and flow or "DRY" for groundwater are entered in the sheet | | | | | | | | | | | | | | | | |
| RO101 (S) | GGS continous gas monitoring canister prevented ground gas and water level monitoring | | | | | | | | | | | | | | | | |
| RO102 (S) | GGS continous gas monitoring canister prevented ground gas and water level monitoring | | | | | | | | | | | | | | | | |
| RO103 (S) | GGS continous gas monitoring canister prevented ground gas and water level monitoring | | | | | | | | | | | | | | | | |
| RO104 (S) | GGS continous gas monitoring canister prevented ground gas and water level monitoring | | | | | | | | | | | | | | | | |
| RO105 (S) | GGS continous gas monitoring canister prevented ground gas and water level monitoring | | | | | | | | | | | | | | | | |
| RO106 (S) | GGS continous gas monitoring canister prevented ground gas and water level monitoring | | | | | | | | | | | | | | | | |
| RO107 (D) | <0.1 | <0.1 | 33.6 | 33.6 | 16.9 | 16.9 | 1.2 | 1.2 | <0.1 | 10.0 | <0.1 | <0.1 | 1003 | NR | 9.61 | NR | GW level recorded at 15:05 |
| RO108 (D) | <0.1 | <0.1 | <0.1 | <0.1 | 0.1 | 0.1 | 20.5 | 20.5 | <0.1 | <0.1 | <0.1 | <0.1 | 1004 | NR | 7.80 | NR | GW level recorded at 14:53 |
| RO109 (D) | <0.1 | <0.1 | <0.1 | <0.1 | 0.3 | 0.1 | 20.2 | 20.3 | <0.1 | <0.1 | <0.1 | <0.1 | 1005 | NR | 8.73 | NR | GW level recorded at 14:36 |
| DS101 | <0.1 | <0.1 | <0.1 | <0.1 | 0.1 | 0.1 | 20.3 | 20.3 | <0.1 | <0.1 | <0.1 | <0.1 | 1004.0 | NR | 8.36 | NR | GW level recorded at 14:35 |
| DS102 | <0.1 | <0.1 | 8.5 | 8.5 | 0.3 | 0.3 | 15.1 | 15.1 | <0.1 | <0.1 | <0.1 | <0.1 | 1004 | NR | 9.49 | NR | GW level recorded at 14:33 |
| DS103 | 0.6 | <0.1 | 7.0 | 5.3 | 4.3 | 3.3 | 14.9 | 16.3 | <0.1 | <0.1 | 0.1 | <0.1 | 1004.0 | NR | 9.10 | NR | GW level recorded at 14:31 |
| CP02A (S) | <0.1 | <0.1 | 6.0 | 5.3 | 9.0 | 8.3 | 12.1 | 12.8 | <0.1 | <0.1 | <0.1 | <0.1 | 1002.0 | NR | 8.61 | NR | GW level recorded at 15:07 |
| CP02A (D) | <0.1 | <0.1 | <0.1 | <0.1 | 1.0 | 1.0 | 19.5 | 19.5 | <0.1 | <0.1 | <0.1 | <0.1 | 1002 | NR | 9.26 | NR | GW level recorded at 15:10 |
| CP03 (S) | <0.1 | <0.1 | 15.1 | 15.1 | 14.2 | 14.2 | 6.9 | 6.9 | <0.1 | <0.1 | <0.1 | <0.1 | 1005 | NR | 7.11 | NR | GW level recorded at 14:38 |
| CP03 (D) | <0.1 | <0.1 | <0.1 | <0.1 | 0.4 | 0.4 | 20.0 | 20.0 | <0.1 | <0.1 | 3.0 | <0.1 | 1005 | NR | 7.24 | NR | GW level recorded at 14:40 |
| CP05 (S) | <.1 | <0.1 | 22.1 | 22.0 | 16.7 | 16.6 | 7.2 | 7.3 | <0.1 | <0.1 | <0.1 | <0.1 | 1004 | NR | 7.63 | NR | GW level recorded at 14:57 |


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| Site Name | Brockhampton West, Havant | Job number | 19-2099.04 | WEATHER | Start | End |
|---|---|---|---|---|---|---|
| | | | | Time | 08:45 | 10:30 |
| Client | Clowes Developments (UK) Ltd | Recorded by | JS | Weather (dry/rain/snow/ice) | Rain | Sunny |
| | | | | Pressure (mb) | 1014.00 | |
| Date (DD/MM/YYYY) | 18/05/21 - 20/05/21 | | | Risking/Falling Trend | Falling and then Rising | |
| Gas Analyser | GFM436 (Gas Kit 4-GSOU-LIN) - 11030 | Visit Number | 4 | Wind Speed (m/s) | 3.20 | 3.20 |
| Readings at start | $CH_4$ (% v/v) <0.1 | $CO_2$ (% v/v) <0.1 | $O_2$ (% v/v) 20.8 | $H_2S$ (ppm) <0.1 | | |
| | | | | Wind Dir. (From) | W | W |
| General comments | Water level across the site recorded within a 1 hour period | | | Temperature °C | 12.00 | |
| | | | | SWL Measured from | Top Of Cover | |

| Ref | GROUND GAS | | | | | | | | | | | | | GROUNDWATER | | | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Flow | | $CH_4$ | | $CO_2$ | | $O_2$ | | $H_2S$ | CO | VOC | Differential (Relative) Pressure | Atmos. Pressure | Depth to free product | Depth to water | Depth to base | (e.g. water colour, sheen, odour, damage to well or gas tap, flooded ground etc.)<br>$ For **Depth to water** state<br>**Depth to water or Dry or NR (= Not Recorded - provide reason if monitoring was intended)**<br># **For Depth to Product state**<br>**ND (= Not detected - product looked for but absent) or NR (= Not Recorded - instrument used unable to detect product)** |
| | l/hr | | % v/v | | % v/v | | % v/v | | ppm | | | mb | mb | m | m | m | |
| | Max | Steady | Max | Steady | Max | Steady | Min | Steady | Max | Max | Max | | | | | | |
| | The formulae require that only numbers, "<0.1" for ground gas and flow or "DRY" for groundwater are entered in the sheet | | | | | | | | | | | | | | | | |
| RO101 (S) | 3.2 | 3.1 | 49.9 | 49.9 | 23.8 | 23.8 | 0.3 | 0.3 | <0.1 | <0.1 | 0.1 | <0.1 | 1010 | NR | 8.25 | 10.20 | |
| RO102 (S) | 0.6 | 0.4 | 59.2 | 59.2 | 23.5 | 23.5 | 1.8 | 1.8 | <0.1 | <0.1 | 0.1 | 10.0 | 1008.0 | NR | 8.15 | 8.60 | |
| RO103 (S) | 0.7 | 0.7 | 67.4 | 67.4 | 28.0 | 28.0 | <0.1 | <0.1 | <0.1 | <0.1 | 0.6 | <0.1 | 1008 | NR | 7.95 | 9.10 | |
| RO104 (S) | <0.1 | <0.1 | 36.0 | 36.0 | 22.2 | 22.2 | 0.2 | 0.2 | <0.1 | <0.1 | 0.1 | 5.0 | 1008.0 | NR | 8.40 | 10.20 | |
| RO105 (S) | <0.1 | <0.1 | <0.1 | <0.1 | 0.7 | 0.7 | 19.3 | 19.3 | <0.1 | <0.1 | 0.1 | <0.1 | 1008 | NR | 8.50 | 11.72 | |
| RO106 (S) | 3.6 | 3.5 | 53.7 | 53.7 | 24.6 | 24.6 | 0.1 | 0.1 | <0.1 | <0.1 | <0.1 | 19.0 | 1008.0 | NR | 11.05 | 14.08 | |
| RO107 (D) | <0.1 | <0.1 | 19.2 | 19.2 | 9.3 | 9.3 | 10.3 | 10.3 | <0.1 | <0.1 | <0.1 | <0.1 | 1007 | NR | 9.72 | 19.91 | |
| RO108 (D) | <0.1 | <0.1 | <0.1 | <0.1 | 0.1 | 0.1 | 21.0 | 21.0 | <0.1 | <0.1 | <0.1 | <0.1 | 1007 | NR | 7.94 | 19.31 | |
| RO109 (D) | <0.1 | <0.1 | 0.1 | 0.1 | 0.3 | 0.3 | 20.5 | 20.5 | <0.1 | <0.1 | <0.1 | <0.1 | 1006 | NR | 8.84 | 20.00 | |
| DS101 | <0.1 | <0.1 | <0.1 | <0.1 | 0.3 | 0.3 | 20.3 | 20.3 | <0.1 | <0.1 | 0.2 | <0.1 | 1008.0 | NR | 8.45 | 11.10 | |
| DS102 | <0.1 | <0.1 | 21.6 | 21.6 | 0.4 | 0.4 | 11.1 | 11.1 | <0.1 | 14.0 | <0.1 | <0.1 | 1007 | NR | 9.73 | 13.03 | |
| DS103 | 3.3 | <0.1 | 17.4 | 17.4 | 9.3 | 9.3 | 9.4 | 9.4 | <0.1 | <0.1 | 0.2 | <0.1 | 1007.0 | NR | 8.10 | 8.98 | |
| CP02A (S) | <0.1 | <0.1 | 3.2 | 3.2 | 4.7 | 4.7 | 16.4 | 16.4 | <0.1 | <0.1 | <0.1 | <0.1 | 1008.0 | NR | 9.33 | 9.13 | |
| CP02A (D) | <0.1 | <0.1 | 2.7 | 2.7 | 4.7 | 4.7 | 16.6 | 16.6 | <0.1 | <0.1 | <0.1 | <0.1 | 1009 | NR | 8.79 | 27.92 | |
| CP03 (S) | <0.1 | <0.1 | 40.6 | 40.6 | 24.1 | 24.1 | 0.3 | 0.3 | <0.1 | <0.1 | 2.1 | <0.1 | 1007 | NR | 5.19 | 8.57 | |
| CP03 (D) | <0.1 | <0.1 | <0.1 | <0.1 | 0.4 | 0.4 | 20.4 | 20.4 | <0.1 | <0.1 | 2.1 | <0.1 | 1007 | NR | 7.31 | 27.00 | |
| CP05 (S) | <0.1 | <0.1 | 52.1 | 52.1 | 24.9 | 24.9 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | 1007 | NR | 6.75 | 9.70 | |



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# Appendix I – Low Flow Groundwater Parameter Test Results

# Low-Flow Test Report:

**Test Date / Time:** 20/05/2021 09:55:05
**Project:** 19-2099.04
**Operator Name:** JS

| Location Name: RO106 | Flow Cell Volume: 90 ml | Instrument Used: SmarTROLL MP<br>Serial Number: 622649 |
|---|---|---|

**Test Notes:**

**Low-Flow Readings:**

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth To Water |
|---|---|---|---|---|---|---|---|---|
| | | +/- 0.1 | +/- 0.5 | +/- 3 % | +/- 0.3 | +/- 10 | +/- 10 | +/- 5 |
| 20/05/2021 09:55 | 00:00 | 8.83 pH | 13.69 °C | 2,274.6 µS/cm | 3.86 mg/L | | 120.2 mV | |
| 20/05/2021 09:56 | 01:00 | 8.60 pH | 13.40 °C | 2,299.3 µS/cm | 3.31 mg/L | | 94.0 mV | |
| 20/05/2021 09:57 | 02:00 | 8.38 pH | 13.27 °C | 2,308.8 µS/cm | 3.32 mg/L | | 87.4 mV | |
| 20/05/2021 09:58 | 03:00 | 8.18 pH | 13.22 °C | 2,311.6 µS/cm | 3.29 mg/L | | 84.4 mV | |
| 20/05/2021 09:59 | 04:00 | 8.01 pH | 13.16 °C | 2,312.7 µS/cm | 3.25 mg/L | | 82.3 mV | |
| 20/05/2021 10:00 | 05:00 | 7.85 pH | 13.13 °C | 2,312.7 µS/cm | 3.19 mg/L | | 80.8 mV | |
| 20/05/2021 10:01 | 06:00 | 7.72 pH | 13.07 °C | 2,314.0 µS/cm | 3.13 mg/L | | 79.5 mV | |
| 20/05/2021 10:02 | 07:00 | 7.61 pH | 13.03 °C | 2,314.3 µS/cm | 3.09 mg/L | | 78.5 mV | |
| 20/05/2021 10:03 | 08:00 | 7.52 pH | 13.00 °C | 2,314.4 µS/cm | 3.06 mg/L | | 77.7 mV | |
| 20/05/2021 10:04 | 09:00 | 7.43 pH | 12.97 °C | 2,313.6 µS/cm | 3.04 mg/L | | 77.0 mV | |
| 20/05/2021 10:05 | 10:00 | 7.36 pH | 12.94 °C | 2,313.3 µS/cm | 3.06 mg/L | | 76.5 mV | |

**Samples**

| Sample ID: | Description: |
|---|---|

Created using VuSitu from In-Situ, Inc.

# Low-Flow Test Report:

**Test Date / Time:** 20/05/2021 10:31:38
**Project:** 19-2099.04 (2)
**Operator Name:** JS

| Location Name: RO101 | Flow Cell Volume: 90 ml | Instrument Used: SmarTROLL MP<br>Serial Number: 622649 |
|---|---|---|

**Test Notes:**

**Low-Flow Readings:**

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth To Water |
|---|---|---|---|---|---|---|---|---|
| | | +/- 0.1 | +/- 0.5 | +/- 3 % | +/- 0.3 | +/- 10 | +/- 10 | +/- 5 |
| 20/05/2021 10:31 | 00:00 | 6.68 pH | 12.79 °C | 3,753.8 µS/cm | 6.22 mg/L | | -45.5 mV | |
| 20/05/2021 10:32 | 01:00 | 6.73 pH | 12.85 °C | 3,752.5 µS/cm | 6.13 mg/L | | -45.2 mV | |
| 20/05/2021 10:33 | 02:00 | 6.76 pH | 12.85 °C | 3,752.6 µS/cm | 6.08 mg/L | | -43.3 mV | |
| 20/05/2021 10:34 | 03:00 | 6.79 pH | 12.86 °C | 3,752.1 µS/cm | 6.06 mg/L | | -41.8 mV | |
| 20/05/2021 10:35 | 04:00 | 6.81 pH | 12.86 °C | 3,752.0 µS/cm | 6.04 mg/L | | -40.4 mV | |
| 20/05/2021 10:36 | 05:00 | 6.83 pH | 12.87 °C | 3,751.8 µS/cm | 6.03 mg/L | | -39.2 mV | |
| 20/05/2021 10:37 | 06:00 | 6.84 pH | 12.87 °C | 3,751.6 µS/cm | 6.01 mg/L | | -37.9 mV | |
| 20/05/2021 10:38 | 07:00 | 6.85 pH | 12.88 °C | 3,751.4 µS/cm | 6.00 mg/L | | -36.8 mV | |
| 20/05/2021 10:39 | 08:00 | 6.87 pH | 12.88 °C | 3,751.7 µS/cm | 5.99 mg/L | | -35.6 mV | |
| 20/05/2021 10:40 | 09:00 | 6.87 pH | 12.89 °C | 3,751.6 µS/cm | 5.98 mg/L | | -34.5 mV | |
| 20/05/2021 10:41 | 10:00 | 6.88 pH | 12.90 °C | 3,750.3 µS/cm | 5.97 mg/L | | -33.5 mV | |

**Samples**

| Sample ID: | Description: |
|---|---|

Created using VuSitu from In-Situ, Inc.

# Low-Flow Test Report:

**Test Date / Time:** 20/05/2021 10:44:58
**Project:** 19-2099.04 (3)
**Operator Name:** JS

| Location Name: RO107 | Flow Cell Volume: 90 ml | Instrument Used: SmarTROLL MP<br>Serial Number: 622649 |
|---|---|---|

**Test Notes:**

**Low-Flow Readings:**

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth To Water |
|---|---|---|---|---|---|---|---|---|
| | | +/- 0.1 | +/- 0.5 | +/- 3 % | +/- 0.3 | +/- 10 | +/- 10 | +/- 5 |
| 20/05/2021 10:44 | 00:00 | 7.04 pH | 12.76 °C | 3,984.1 µS/cm | 6.72 mg/L | | -26.9 mV | |
| 20/05/2021 10:45 | 01:00 | 7.12 pH | 12.81 °C | 3,985.3 µS/cm | 6.61 mg/L | | -10.2 mV | |
| 20/05/2021 10:46 | 02:00 | 7.17 pH | 12.84 °C | 3,985.0 µS/cm | 6.56 mg/L | | -1.7 mV | |
| 20/05/2021 10:47 | 03:00 | 7.20 pH | 12.85 °C | 3,986.1 µS/cm | 6.51 mg/L | | 4.3 mV | |
| 20/05/2021 10:48 | 04:00 | 7.22 pH | 12.84 °C | 3,987.4 µS/cm | 6.49 mg/L | | 8.9 mV | |
| 20/05/2021 10:49 | 05:00 | 7.23 pH | 12.83 °C | 3,989.9 µS/cm | 6.47 mg/L | | 12.5 mV | |
| 20/05/2021 10:50 | 06:00 | 7.24 pH | 12.83 °C | 3,990.3 µS/cm | 6.49 mg/L | | 15.6 mV | |
| 20/05/2021 10:51 | 07:00 | 7.25 pH | 12.84 °C | 3,989.4 µS/cm | 6.50 mg/L | | 17.9 mV | |
| 20/05/2021 10:52 | 08:00 | 7.26 pH | 12.84 °C | 3,986.7 µS/cm | 6.51 mg/L | | 19.9 mV | |
| 20/05/2021 10:53 | 09:00 | 7.26 pH | 12.85 °C | 3,988.3 µS/cm | 6.51 mg/L | | 21.6 mV | |
| 20/05/2021 10:54 | 10:00 | 7.26 pH | 12.85 °C | 3,987.6 µS/cm | 6.50 mg/L | | 23.3 mV | |

**Samples**

| Sample ID: | Description: |
|---|---|

# Low-Flow Test Report:

**Test Date / Time:** 20/05/2021 10:57:38
**Project:** 19-2099.04 (4)
**Operator Name:** JS

| Location Name: RO109 | Flow Cell Volume: 90 ml | Instrument Used: SmarTROLL MP<br>Serial Number: 622649 |
|---|---|---|

**Test Notes:**

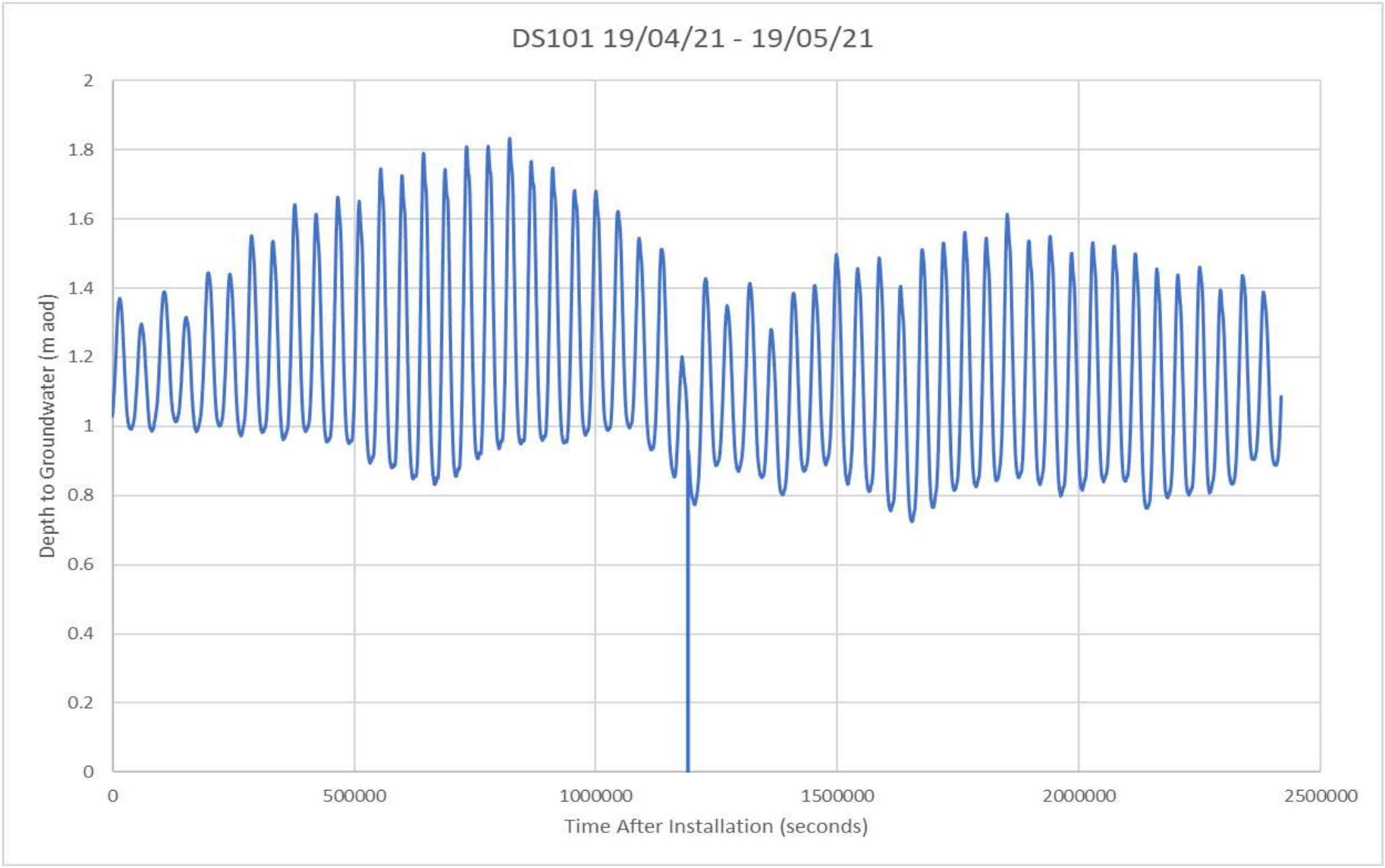
**Low-Flow Readings:**

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth To Water |
|---|---|---|---|---|---|---|---|---|
| | | +/- 0.1 | +/- 0.5 | +/- 3 % | +/- 0.3 | +/- 10 | +/- 10 | +/- 5 |
| 20/05/2021 10:57 | 00:00 | 7.91 pH | 12.76 °C | 1,302.7 µS/cm | 5.35 mg/L | | 12.8 mV | |
| 20/05/2021 10:58 | 01:00 | 7.77 pH | 12.78 °C | 1,305.4 µS/cm | 4.98 mg/L | | 20.3 mV | |
| 20/05/2021 10:59 | 02:00 | 7.67 pH | 12.80 °C | 1,304.8 µS/cm | 4.85 mg/L | | 23.3 mV | |
| 20/05/2021 11:00 | 03:00 | 7.59 pH | 12.79 °C | 1,304.6 µS/cm | 4.76 mg/L | | 24.8 mV | |
| 20/05/2021 11:01 | 04:00 | 7.53 pH | 12.79 °C | 1,304.4 µS/cm | 4.69 mg/L | | 25.8 mV | |
| 20/05/2021 11:02 | 05:00 | 7.47 pH | 12.79 °C | 1,304.1 µS/cm | 4.62 mg/L | | 26.6 mV | |
| 20/05/2021 11:03 | 06:00 | 7.43 pH | 12.79 °C | 1,303.6 µS/cm | 4.53 mg/L | | 27.2 mV | |
| 20/05/2021 11:04 | 07:00 | 7.40 pH | 12.80 °C | 1,303.0 µS/cm | 4.45 mg/L | | 27.7 mV | |
| 20/05/2021 11:05 | 08:00 | 7.37 pH | 12.80 °C | 1,302.3 µS/cm | 4.37 mg/L | | 28.2 mV | |
| 20/05/2021 11:06 | 09:00 | 7.34 pH | 12.80 °C | 1,301.7 µS/cm | 4.29 mg/L | | 28.6 mV | |
| 20/05/2021 11:07 | 10:00 | 7.32 pH | 12.81 °C | 1,301.3 µS/cm | 4.23 mg/L | | 28.9 mV | |

**Samples**

| Sample ID: | Description: |
|---|---|

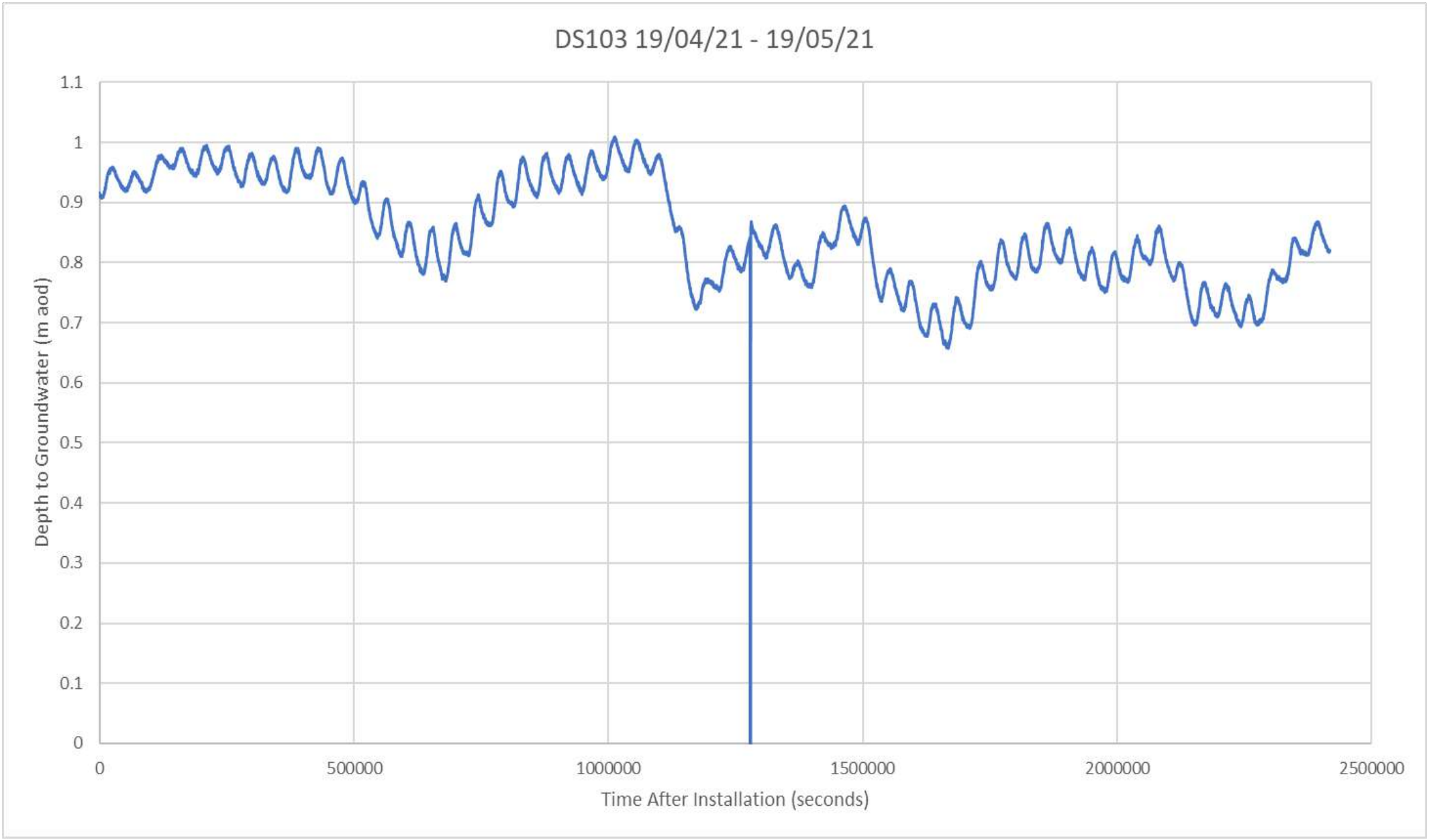
# Appendix J – Continuous Water Level Monitoring Results




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TITLE:
Time Versus Depth to Groundwater (m aod)
Brockhampton West, Havant

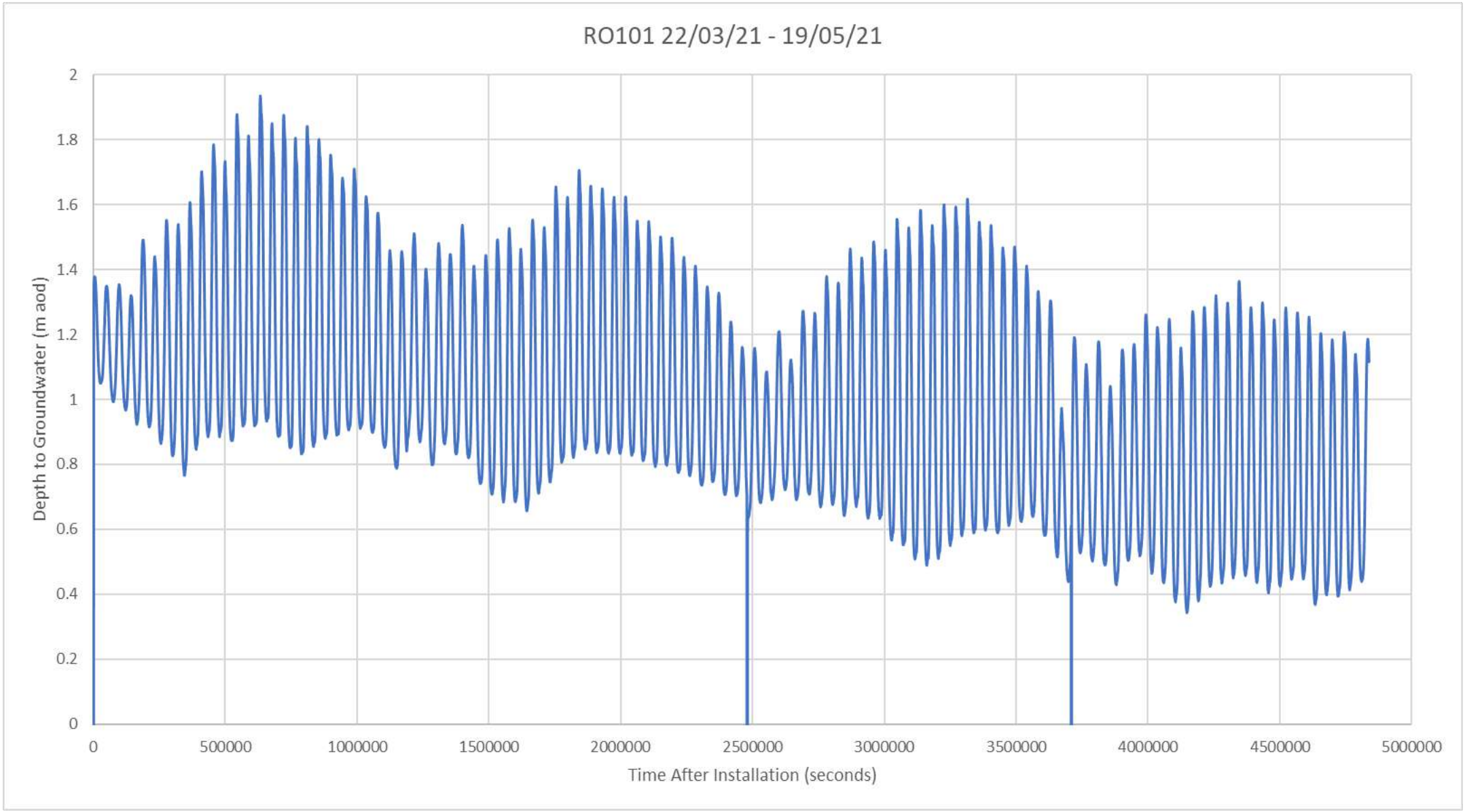
| DRAWN BY: | SCALE: | PROJECT NO: |
|---|---|---|
| LB | NTS | 19-2099.04 |
| CHECKED BY: | REVISION: | FIGURE NO: |
| DJ | - | - |
| DATE: | | |
| May 2021 | | |




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Environment - Health & Safety - Sustainability

TITLE:
Time Versus Depth to Groundwater (m aod)
Brockhampton West, Havant

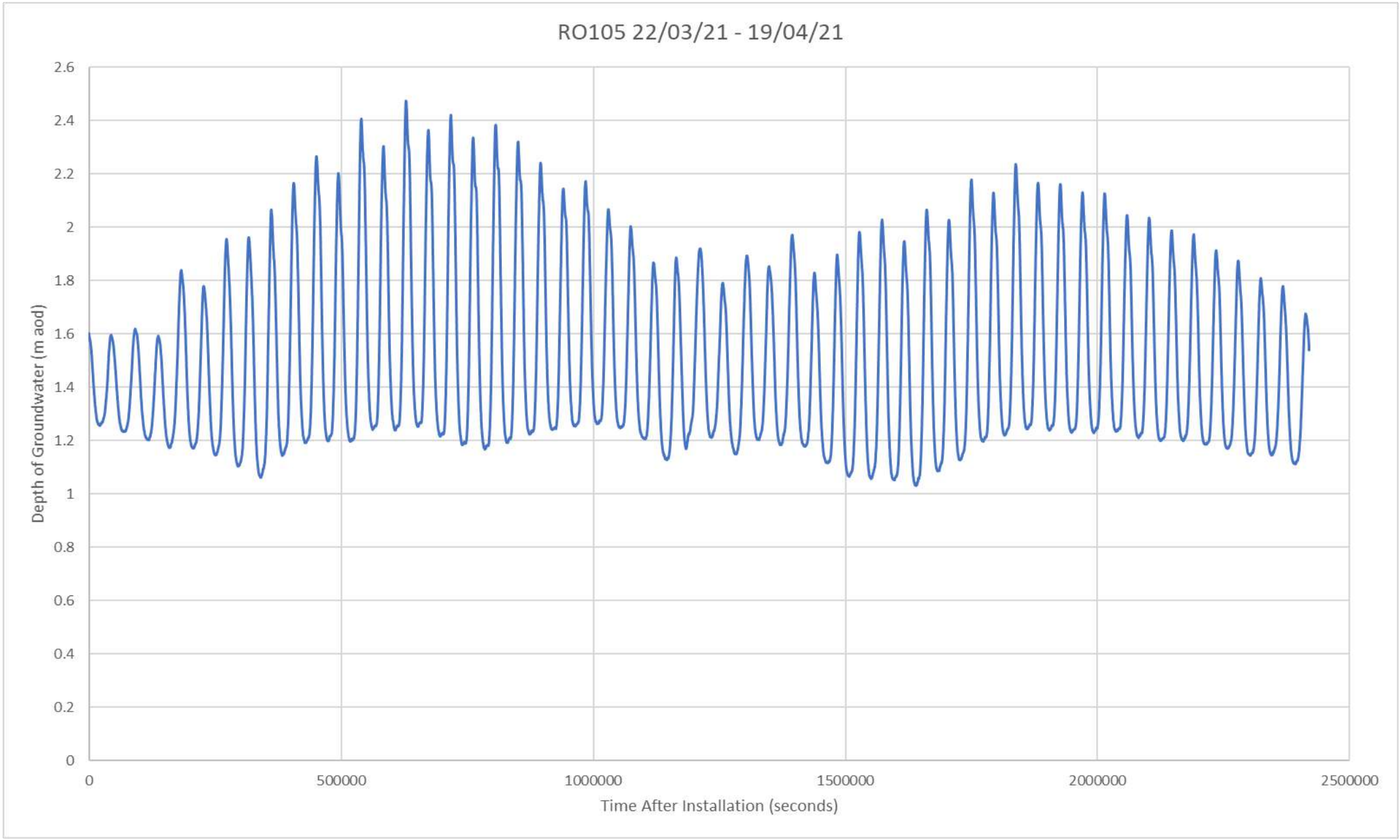
| DRAWN BY: | SCALE: | PROJECT NO: |
|---|---|---|
| LB | NTS | 19-2099.04 |
| CHECKED BY: | REVISION: | FIGURE NO: |
| DJ | - | - |
| DATE: | | |
| May 2021 | | |




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Environment - Health & Safety - Sustainability

TITLE:
Time Versus Depth to Groundwater (m aod)
Brockhampton West, Havant

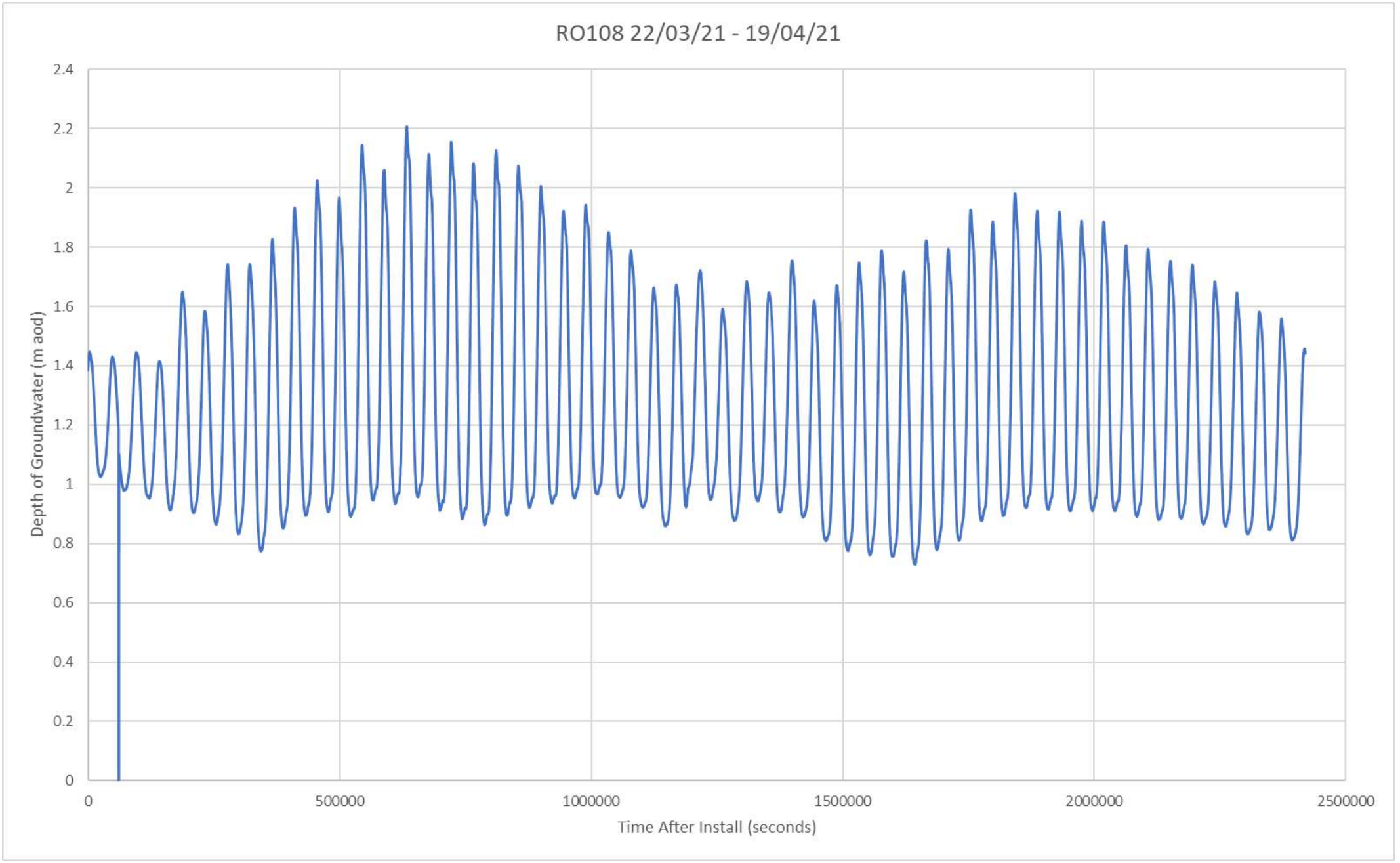
| | | | |
|---|---|---|---|
| DRAWN BY: LB | SCALE: NTS | PROJECT NO: 19-2099.04 | |
| CHECKED BY: DJ | REVISION: - | FIGURE NO: - | |
| DATE: May 2021 | | | |




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TITLE:
Time Versus Depth to Groundwater (m aod)
Brockhampton West, Havant

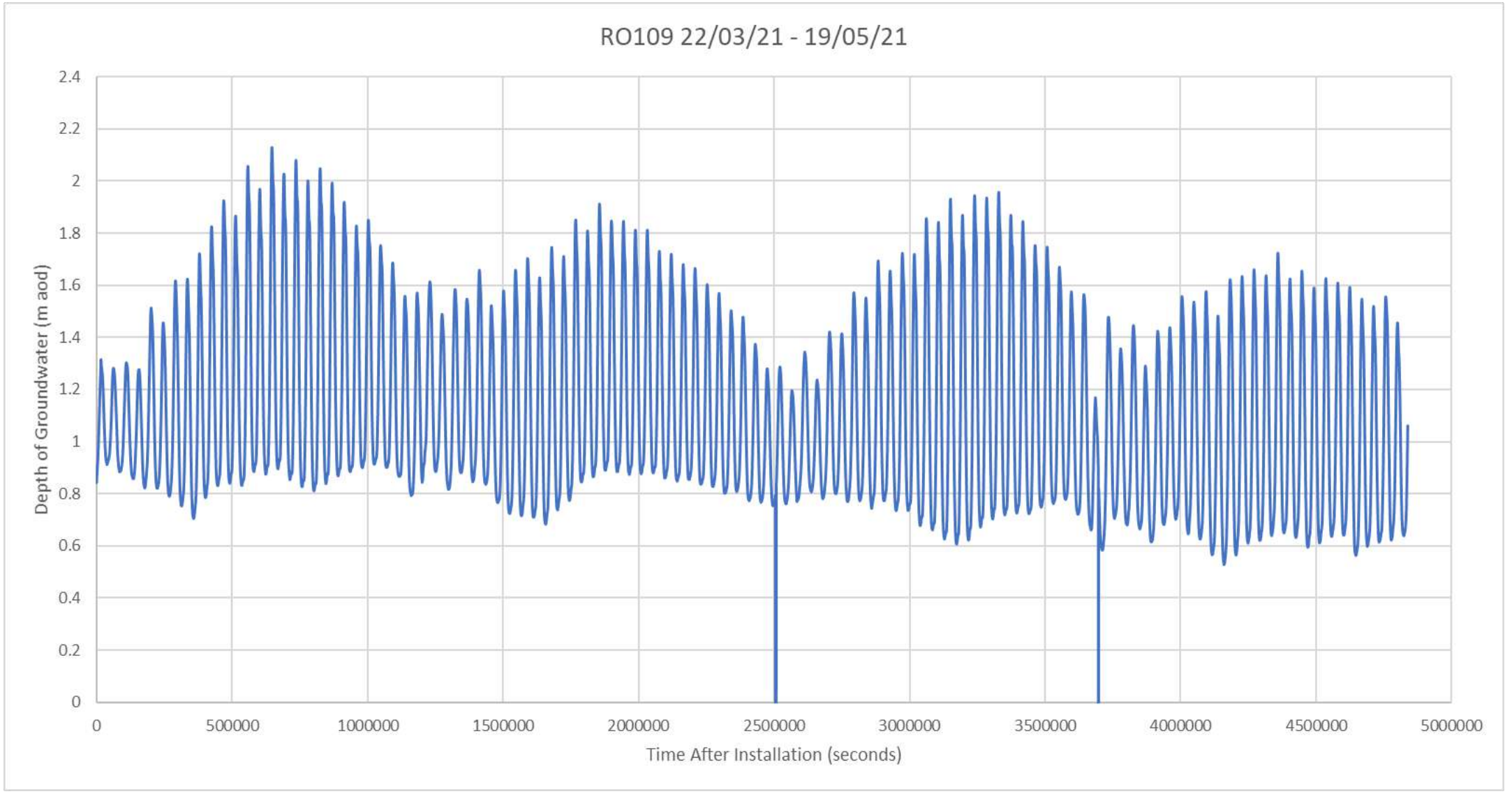
| DRAWN BY: | SCALE: | PROJECT NO: |
|---|---|---|
| LB | NTS | 19-2099.04 |
| CHECKED BY: | REVISION: | FIGURE NO: |
| DJ | - | - |
| DATE: | | |
| May 2021 | | |




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TITLE:
Time Versus Depth to Groundwater (m aod)
Brockhampton West, Havant

| DRAWN BY: | SCALE: | PROJECT NO: |
|---|---|---|
| LB | NTS | 19-2099.04 |
| CHECKED BY: | REVISION: | FIGURE NO: |
| DJ | - | - |
| DATE: | | |
| May 2021 | | |




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TITLE:
Time Versus Depth to Groundwater (m aod)
Brockhampton West, Havant

| DRAWN BY: | SCALE: | PROJECT NO: |
|---|---|---|
| LB | NTS | 19-2099.04 |
| CHECKED BY: | REVISION: | FIGURE NO: |
| DJ | - | - |
| DATE: | | |
| May 2021 | | |

# Appendix K – Continuous Gas Monitoring Data and Purge and Recovery Test Data

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**Telephone:** 0161 232 7465
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**Web:** www.ggs-uk.com

Experts in Continuous Monitoring

# GGS DataPack®

## GGS2440 Broadmarsh Open Space, Harts Farm Way



GGS Site Photograph

**Prepared for:**

**Delta-Simons Environmental Consultants Ltd.**

deltasimons
Environment - Health & Safety - Sustainability

For: Delta-Simons Environmental Consultants Ltd.
Ref No.: GGS2440DP01
Date: 01/06/2021

# Document Control Page

| | |
|---|---|
| Client | Delta-Simons Environmental Consultants Ltd.<br>Suite C1,<br>Joseph's Well,<br>Hanover Walk,<br>Leeds,<br>LS3 1AB |
| Project Title | GGS DataPack®<br>GGS2440 Broadmarsh Open Space, Harts Farm Way |
| Report Ref | GGS2440DP01 |
| Project Revision | - |
| Revision Detail | First Issue |
| Issue Status | FINAL |

| | Name | | Position | Signature | Date |
|---|---|---|---|---|---|
| **Prepared By:** | Annabel Edwards | BSc (Hons) AMIEnvSc | Geo-Environmental Specialist |  | 01/06/2021 |
| | Dominic Nunn | BSc (Hons) MSc | Geo-Environmental Consultant |  | 01/06/2021 |
| **Checked and Approved By:** | Andrew Brunton | BSc (Hons) FGS | Principal Geo-Environmental Consultant |  | 01/06/2021 |



Experts in Continuous Monitoring

# GGS DataPack®
# GGS2440 Broadmarsh Open Space, Harts Farm Way

## FOREWORD

This report has been prepared based on information made available to Ground-Gas Solutions, trading as GGS, at the time of the reporting using all reasonable skill, care and diligence and within the limitations of the scope of works agreed with, and resources provided by, the client.

GGS has relied on information provided by others and has prepared this report on the basis of this information being accurate.

The report and recommendations therein are provided based on information available to GGS at the time of preparing the report and completed to recognised UK guidance and legislation. GSS will not accept any liability for inaccurate or incomplete information provided to GGS or any liability arising from the future change of any such guidance or legislation.

GGS is not obliged and disclaims any obligation to carry out further works or update the report for events occurring after such works have been carried out, and / or report issued in final form. This also applies to transfer of the report to other parties.

This report must be issued as final and be signed by the author and approved by a company director or senior management before the report may be relied upon by the client and subject to full payment for our services being made.

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For: Delta-Simons Environmental Consultants Ltd.
Ref No.: GGS2440DP01
Date: 01/06/2021

Experts in Continuous Monitoring

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1.1 Scope of works ..... 1
1.2 Site context ..... 2
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For: Delta-Simons Environmental Consultants Ltd.
Ref No.: GGS2440DP01
Date: 01/06/2021

# GGS DataPack®
# GGS2440 Broadmarsh Open Space, Harts Farm Way

## Appendices


Appendix A

Site and Monitoring Location Plan

Appendix B

Site Photographs

Appendix C

Periodic Monitoring Records

Appendix D

Continuous Monitoring Data

Appendix E

Concentration Duration Curves

Appendix F

Calibration Certificates

Appendix G

Gas Sentinel® and Gas Clam® Instrumentation Overview


For: Delta-Simons Environmental Consultants Ltd.
Ref No.: GGS2440DP01
Date: 01/06/2021

Experts in Continuous Monitoring

# 1 Introduction

GGS Limited has been commissioned by Delta-Simons Environmental Consultants Ltd., to undertake continuous monitoring services at Broadmarsh Open Space, off Harts Farm Way, Havant, and prepare a factual report (GGS DataPack®) containing the following information:

- Periodic monitoring records;
- Continuous monitoring data and graphs;
- Concentration duration curves;
- Atmospheric pressure trend analysis; and
- Instrument calibration certificates.

## 1.1 Scope of works

The scope of works is set out below:

- Site visits by GGS on 23rd March, 20th and 29th April and 19th May 2021.
- Continuous ground gas monitoring and continuous groundwater monitoring of a total of 6 No. monitoring well locations.
- Purge and recovery tests of 4 No. monitoring well locations.
- Provision of a GGS DataPack® report.

### 1.2 Site context

Table 1.1 below outlines the site context. A site plan and monitoring location plan is presented in Appendix A, whilst selected site photographs are presented in Appendix B.

**Table 1.1** Site description

| Description | Details |
|---|---|
| Address | Broadmarsh Open Space, Harts Farm Way, Havant |
| Postcode | PO9 1HS |
| National Grid Reference (approximate centre of site) | SU 70126 05669 |
| Site area (approximate total) | 8.9 hectares |
| Overview | The site encompasses a parcel of land off Harts Farm Way. |
| North of the site | A27 Havant Bypass. |
| South of the site | Harts Farm Way, Broadmarsh coastal park and Storehouse Lake beyond. |
| East of the site | Estuary, business park and household waste recycling centre beyond. |
| West of the site | Harts Farm Way, field with a small wooded area. |

### 1.3 Continuous monitoring

#### 1.3.1 Definition

When the frequency of sampling matches, or is greater than, the frequency of a parameter change, the data collected can be termed ‘continuous’. A continuous data set will therefore capture the full range of variation in the parameter being recorded.

#### 1.3.2 Benefits of continuous data

The collection of time series data of permanent gases and other environmental parameters provides a wealth of information significantly assisting the assessor to identify the dominant processes of gas generation and migration. This leads to a more detailed understanding of

the ground-gas regime and allows for an accurate and truly site-specific risk assessment to be completed.

# 2 Methodology

## 2.1 Periodic monitoring

GGS geo-environmental specialists undertook periodic monitoring of 6 No. wells, prior to the deployment of continuous monitoring instruments.

GGS periodic monitoring included measurement of atmospheric pressure (mbar), borehole flow (l/hr) and gas concentrations; methane (%v/v), carbon dioxide (%v/v), oxygen (%v/v), carbon monoxide (ppmv) and hydrogen sulphide (ppmv). GA5000 gas analyser was used to record these parameters. Water levels and base depths were recorded using a geotechnical dip meter.

In all cases, gas readings were recorded for up to ten minutes, or until steady state conditions were observed. All monitoring data and pertinent site observations were recorded on a proforma record sheet. A summary of periodic monitoring results is presented in section 3.1, whilst the full periodic monitoring records are presented in Appendix C.

## 2.2 Continuous ground gas monitoring

GGS configured Gas Sentinel® and Gas Clam® instrumentation to record at 60-minute intervals for the period of monitoring. The instrumentation recorded atmospheric pressure, flow, temperature and gas concentrations; methane ($CH_4$), carbon dioxide ($CO_2$) oxygen ($O_2$), hydrogen sulphide ($H_2S$) and carbon monoxide (CO). Gas Sentinel® instruments additionally recorded gas flow.

Table 2.1 below details the schedule of continuous monitoring at the site.

**Table 2.1** Continuous monitoring schedule

| Monitoring Well ID | Instrument ID | Dates monitored |
|---|---|---|
| RO101 | GC44/12/09 | 20/04/21 – 29/04/21 |
| | GS03000044 | 29/04/2021 – 19/05/2021 |
| RO102 | GC22/09/14 | 20/04/21 – 29/04/21 |
| | GS03000054 | 29/04/2021 – 19/05/2021 |

| | | |
|---|---|---|
| RO103 | GC317/06/12 | 20/04/21 – 29/04/21 |
| | GS03000036 | 29/04/2021 – 19/05/2021 |
| RO104 | GS03000036 | 23/03/2021 – 20/04/2021 |
| | GC22/09/14 | 29/04/2021 – 19/05/2021 |
| RO105 | GS03000044 | 23/03/2021 – 20/04/2021 |
| | GC44/12/09 | 29/04/2021 – 19/05/2021 |
| RO106 | GS03000054 | 23/03/2021 – 20/04/2021 |
| | GC317/06/12 | 29/04/2021 – 19/05/2021 |

GS denotes Gas Sentinel®, GC denotes Gas Clam®

Continuous monitoring graphs are presented in Section 3.2 and the raw data is presented in Appendix D.

### 2.3 Continuous groundwater level monitoring

GGS co-deployed the continuous ground gas monitoring instruments with continuous groundwater level loggers.

The Levelogger™ is a datalogger which measures the groundwater level (or surface water levels) and water temperature. Water levels are displayed as temperature compensated pressure readings and are barometrically compensated with the aid of a Barologger™. The Barologger uses algorithms based on air pressure only. It measures and logs changes in atmospheric pressure, which are then used to compensate water level readings recorded by a Levelogger.

Continuous water level monitoring was completed in 6 No. installations and set to record at 60-minute intervals.

The continuous water level data is included within the time series graphs which are presented in Section 3.2. The raw data is presented in Appendix D.

### 2.4 GGS PRT®

Four monitoring well locations (RO101, RO103, RO104, RO106) were subject to a GGS Purge and Recovery Test (GGS PRT®) to provide an indication of ground-gas flux. The GGS PRTs® were undertaken on 20th April 2021. The monitoring wells were purged using nitrogen until carbon dioxide, methane and oxygen fell to negligible levels, or to as low as possible; a GasClam® instrument was then immediately installed, sealed into the monitoring well with a rubber neck collar, and each instrument activated to measure the ground gas recovery at high frequency, in this case at three-minute intervals. The GasClam® recorded data at this frequency for up to an hour, or until ground-gas concentrations reached a plateau. The results from GGS PRT® tests are summarised in Section 3.5, whilst profiles and data are presented in Appendix E.

# 3 Results

## 3.1 Periodic monitoring summary

Table 3.1 below provides a summary of the periodic monitoring undertaken at the site, whilst the full periodic monitoring records are presented in Appendix C.

**Table 3.1** Periodic monitoring summary

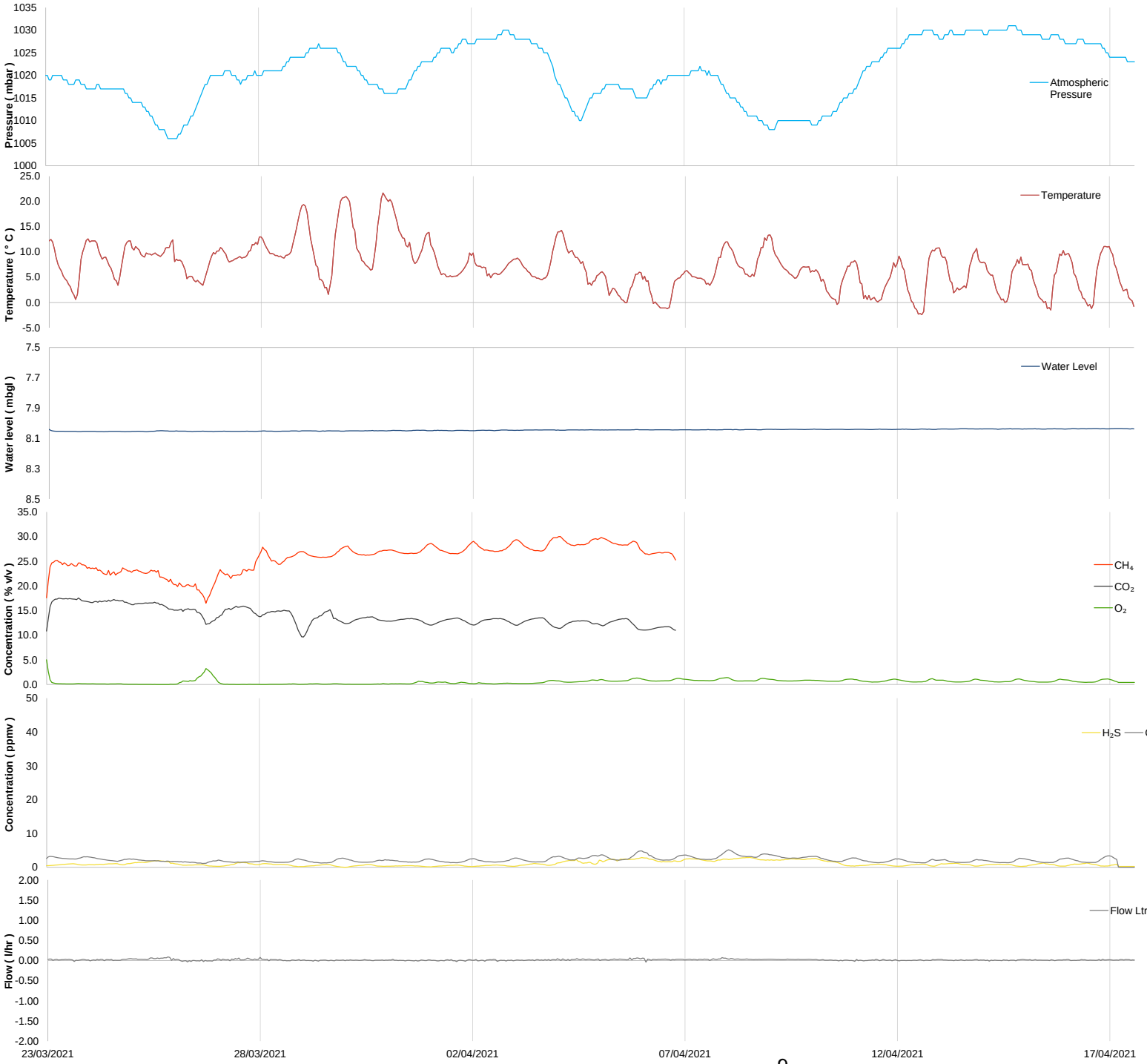
| Maximum steady flow and gas concentrations | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Monitoring location | Max. Steady Positive Flow Rate (l/hr) | Max. CH4 (% v/v) | Max. CO2 (% v/v) | Min O2 (% v/v) | Max. CO (ppmv) | Max. H2S (ppmv) | Standing water level (mbgl) | Base depth (mbgl) |
| RO101 | 0.1 | 64.7 | 26.0 | <0.1 | 1 | 7 | 7.89 – 8.15 | 10.18 |
| RO102 | 0.1 | 65.5 | 28.6 | <0.1 | 2 | 16 | 7.59 – 8.08 | 8.50 |
| RO103 | 0.2 | 66.9 | 29.4 | 0.1 | 2 | 17 | 7.21 – 7.75 | 9.03 |
| RO104 | 0.1 | 31.2 | 21.4 | <0.1 | 5 | 7 | 8.04 – 8.47 | 10.97 |
| RO105 | <0.1 | 20.9 | 14.5 | 1.2 | 16 | <1 | 4.97 – 8.49 | 10.90 |
| RO106 | 0.1 | 50.3 | 25.2 | 0.1 | 4 | 13 | 10.19 – 11.06 | 14.09 |

Note: > and < used where results were above or below the instrument sensor detection limits, respectively.

### 3.2 Continuous monitoring results

GGS DataPack® analysis involves converting raw data files from instruments into spread sheets. The data is then plotted as time series data graphs, showing ground-gas concentrations, flow, atmospheric pressure and temperature against time.

The continuous monitoring graphs are shown on the following pages: each graph also contains a minimum and maximum values table. The raw data is presented in Appendix D.






ggs
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**Title:**

RO104 Time Series Graphs
23/03/21 - 20/04/21

**Project:**

GGS2440 Broadmarsh open Space, Harts Farm Way

**Client:**

Delta-Simons Environmental Consultants Ltd.

**Minimum / Maximum Table**

| Parameter | Minimum | Maximum |
|---|---|---|
| $CH_4$ ( % v/v ) | 0.0 | 30.0 |
| $CO_2$ ( % v/v ) | 0.0 | 17.6 |
| $O_2$ ( % v/v ) | 0.0 | 5.0 |
| Hydrogen Sulphide ( ppmv ) | 0 | 3 |
| Carbon Monoxide ( ppmv ) | 0 | 5 |
| Atmospheric Pressure ( mbar ) | 1006 | 1031 |
| Temperature ( ° C ) | -2.4 | 21.7 |
| Flow ( l/hr ) | -0.04 | 0.09 |

These graphs form part of the GGS DataPack® which is a registered trademark.

They should only be relied upon and used in the circumstances they were originally prepared by GGS for the client. Any other use or modification is not the responsibility of GGS.

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**Title:**

RO105 Time Series Graphs
23.03.21 - 20.04.21

**Project:**

GGS2440 Broadmarsh Open Space, Harts Farm Way

**Client:**

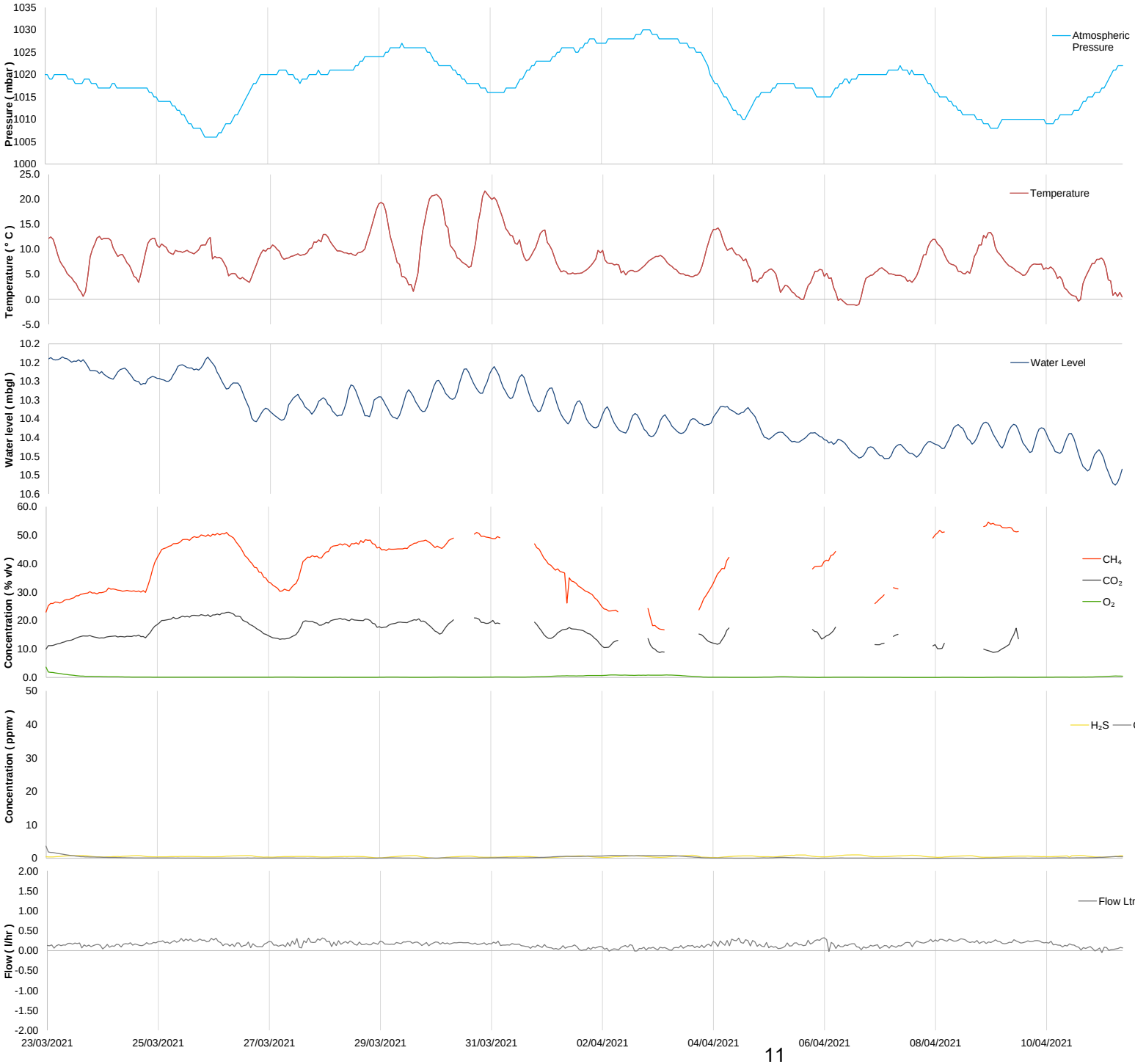
Delta-Simons Environmental Consultants Ltd.

| Minimum / Maximum Table | | |
|---|---|---|
| **Parameter** | **Minimum** | **Maximum** |
| $CH_4$ ( % v/v ) | 0.0 | 54.8 |
| $CO_2$ ( % v/v ) | 0.0 | 15.1 |
| $O_2$ ( % v/v ) | 0.0 | 20.3 |
| Hydrogen Sulphide ( ppmv ) | 0 | 2 |
| Carbon Monoxide ( ppmv ) | 0 | 5 |
| Atmospheric Pressure ( mbar ) | 1006 | 1031 |
| Temperature ( ° C ) | -2.4 | 21.7 |
| Flow ( l/hr ) | -0.25 | 0.16 |

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ggs
Experts in Continuous Monitoring

**Title:**
RO106 Time Series Graphs
23.03.21 - 20.04.21

**Project:**
GGS2440 Broadmarsh Open Space, Harts Farm Way

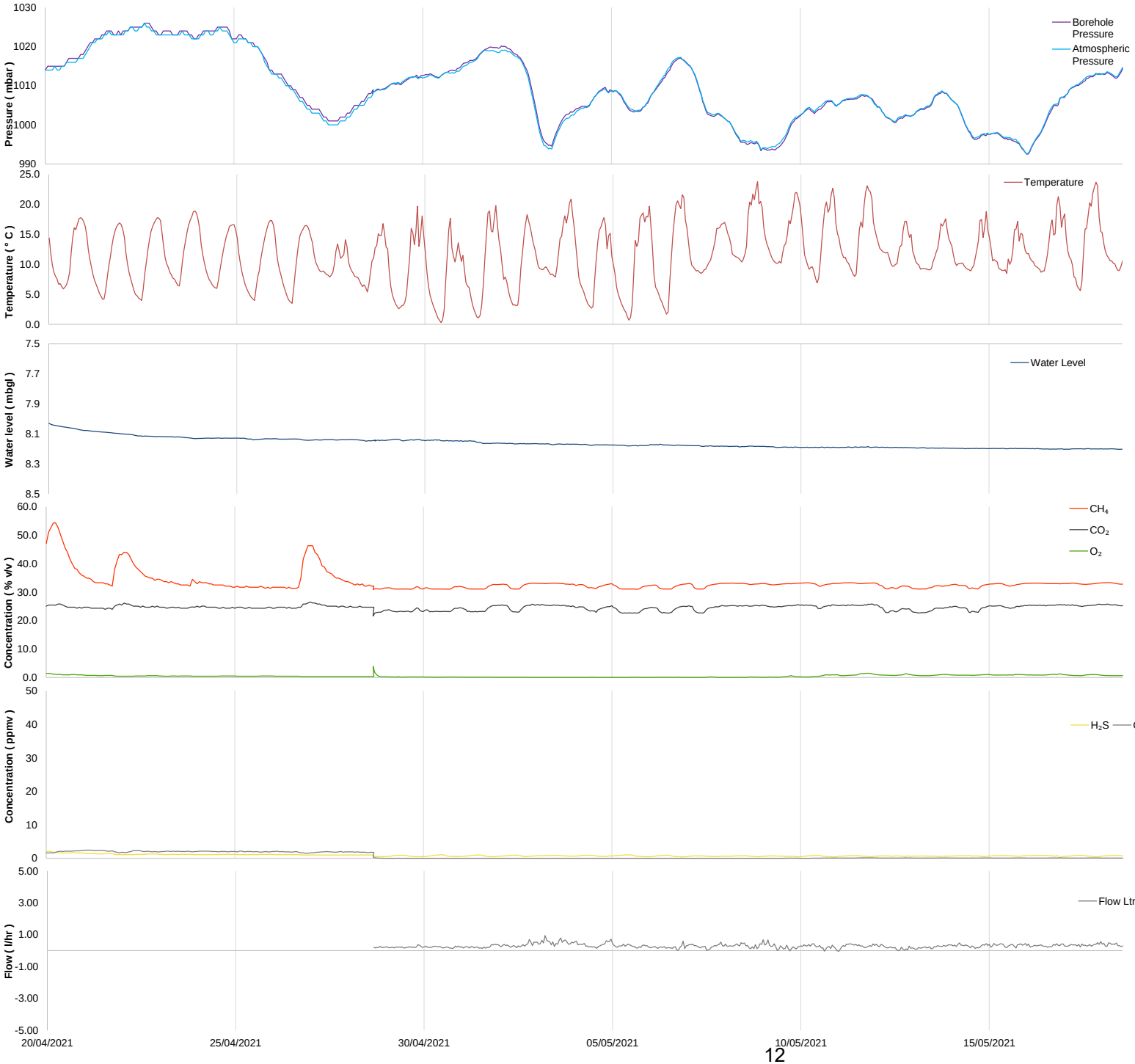
**Client:**
Delta-Simons Environmental Consultants Ltd.

| Minimum / Maximum Table | | |
|---|---|---|
| **Parameter** | **Minimum** | **Maximum** |
| $CH_4$ ( % v/v ) | 0.0 | 54.6 |
| $CO_2$ ( % v/v ) | 0.0 | 22.9 |
| $O_2$ ( % v/v ) | 0.0 | 3.6 |
| Hydrogen Sulphide ( ppmv ) | 0 | 1 |
| Carbon Monoxide ( ppmv ) | 0 | 4 |
| Atmospheric Pressure ( mbar ) | 1006 | 1030 |
| Temperature ( ° C ) | -1.2 | 21.7 |
| Flow ( l/hr ) | -0.05 | 0.32 |

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**Title:**

RO101 Time Series Graphs
20/04/21 - 19/05/21

**Project:**

GGS2440 Broadmarsh Open Space, Harts Farm Way

**Client:**

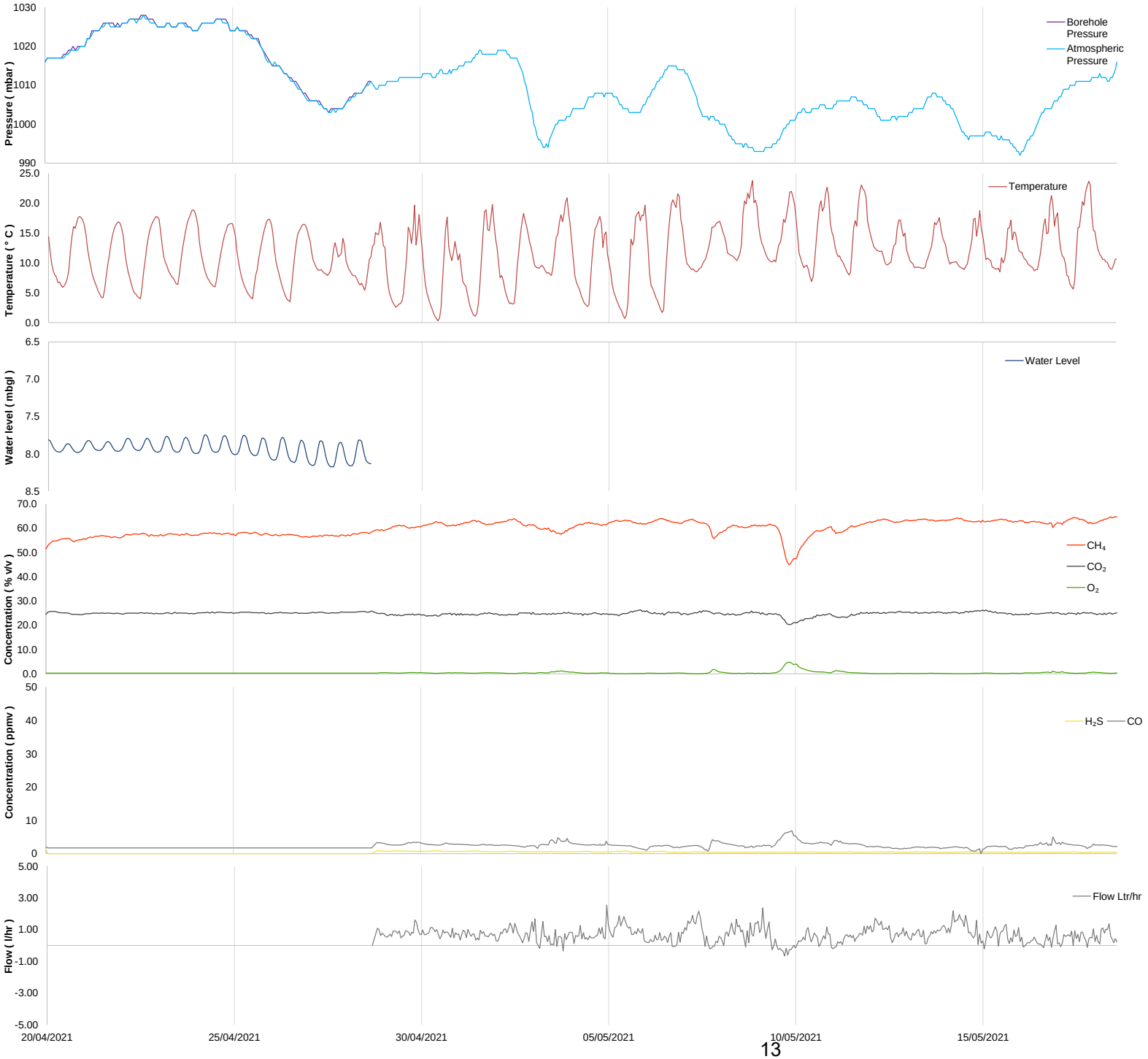
Delta-Simons Environmental Consultants Ltd.

| Minimum / Maximum Table | | |
|---|---|---|
| **Parameter** | **Minimum** | **Maximum** |
| $CH_4$ ( % v/v ) | 30.9 | 54.3 |
| $CO_2$ ( % v/v ) | 21.6 | 26.5 |
| $O_2$ ( % v/v ) | 0.0 | 3.9 |
| Hydrogen Sulphide ( ppmv ) | 0 | 2 |
| Carbon Monoxide ( ppmv ) | 0 | 2 |
| Atmospheric Pressure ( mbar ) | 993 | 1026 |
| Borehole Pressure ( mbar ) | 992 | 1026 |
| Temperature ( ° C ) | 0.3 | 23.8 |
| Flow ( l/hr ) | -0.05 | 0.94 |

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**Title:**

RO102 Time Series Graphs
20/04/21 - 19/05/21

**Project:**

GGS2440 Broadmarsh Open Space, Harts Farm Way

**Client:**

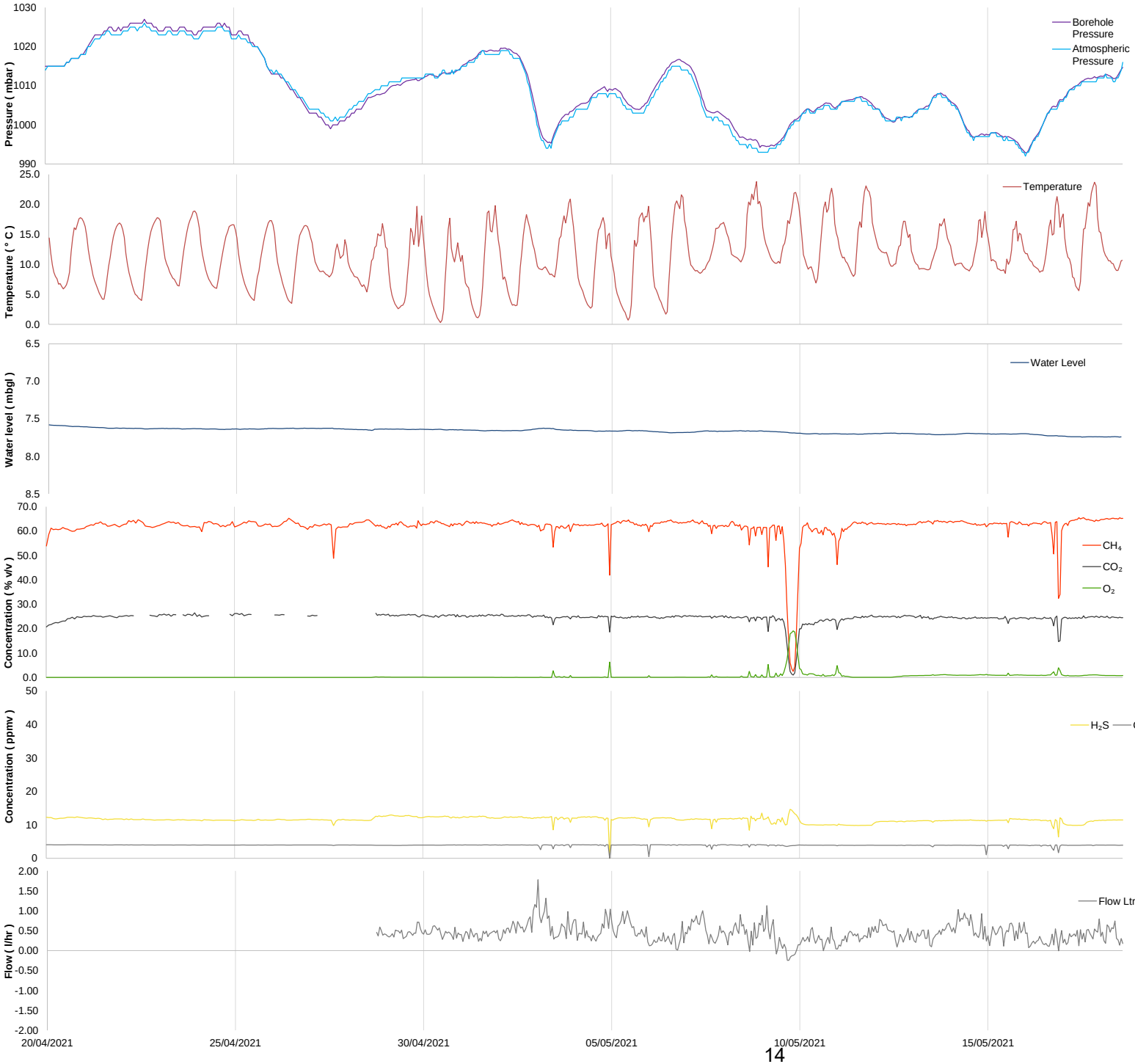
Delta-Simons Environmental Consultants Ltd.

| Minimum / Maximum Table | | |
|---|---|---|
| **Parameter** | **Minimum** | **Maximum** |
| $CH_4$ ( % v/v ) | 44.9 | 64.8 |
| $CO_2$ ( % v/v ) | 20.3 | 26.4 |
| $O_2$ ( % v/v ) | 0.0 | 4.8 |
| Hydrogen Sulphide ( ppmv ) | 0 | 1 |
| Carbon Monoxide ( ppmv ) | 0 | 7 |
| Atmospheric Pressure ( mbar ) | 992 | 1028 |
| Borehole Pressure ( mbar ) | 1003 | 1028 |
| Temperature ( ° C ) | 0.3 | 23.8 |
| Flow ( l/hr ) | -0.67 | 2.55 |

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Experts in Continuous Monitoring

**Title:**

RO103 Time Series Graphs
20/04/21 - 19/05/21

**Project:**

GGS2440 Broadmarsh Open Space, Harts Farm Way

**Client:**

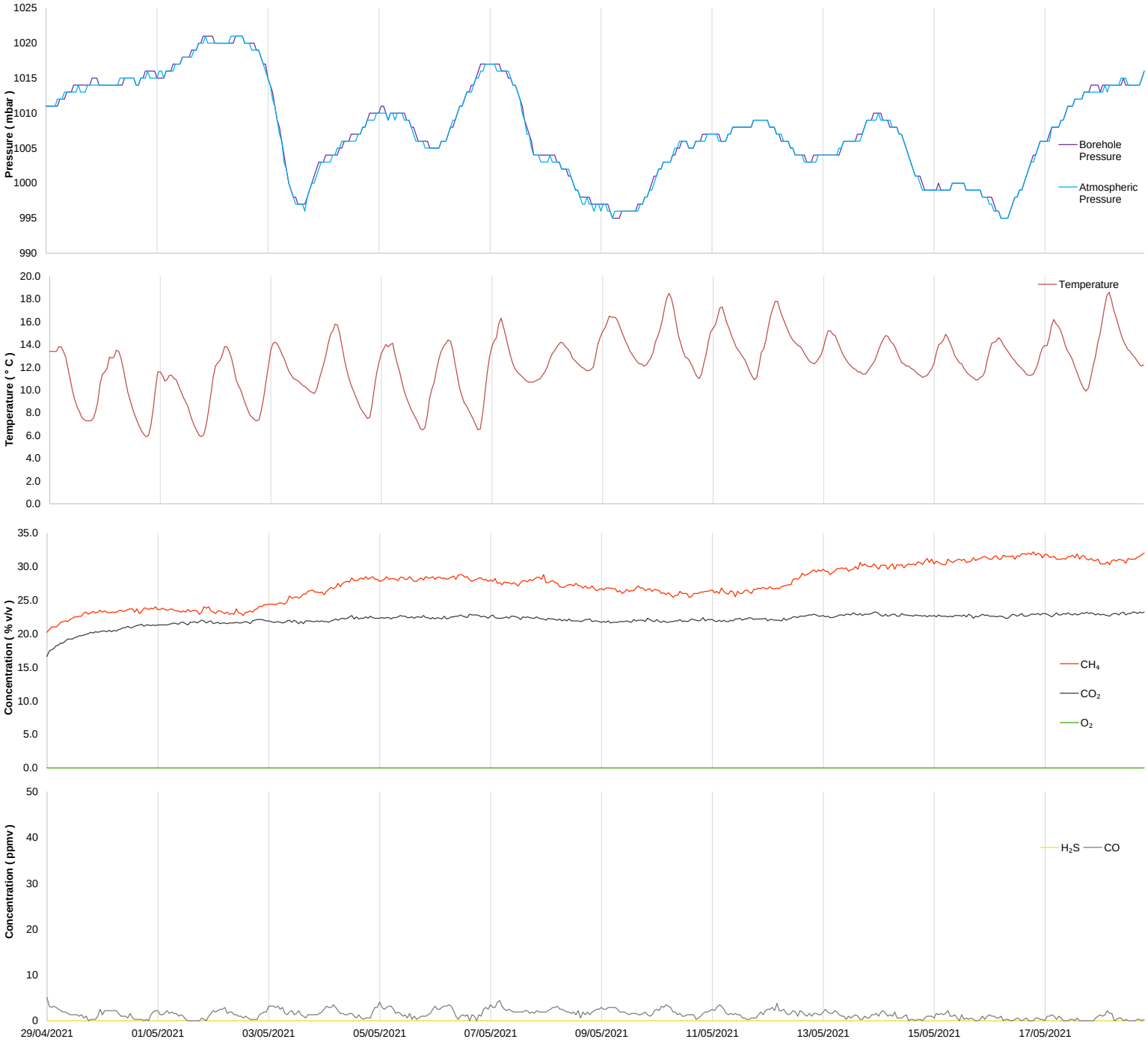
Delta-Simons Environmental Consultats Ltd.

| Minimum / Maximum Table | | |
|---|---|---|
| **Parameter** | **Minimum** | **Maximum** |
| $CH_4$ ( % v/v ) | 2.5 | 65.5 |
| $CO_2$ ( % v/v ) | 1.0 | 26.5 |
| $O_2$ ( % v/v ) | 0.0 | 19.1 |
| Hydrogen Sulphide ( ppmv ) | 0 | 15 |
| Carbon Monoxide ( ppmv ) | 0 | 4 |
| Atmospheric Pressure ( mbar ) | 992 | 1026 |
| Borehole Pressure ( mbar ) | 993 | 1027 |
| Temperature ( ° C ) | 0.3 | 23.8 |
| Flow ( l/hr ) | -0.24 | 1.78 |

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Experts in Continuous Monitoring

**Title:**

RO104 Time Series Graphs
29/04/21 - 19/05/21

**Project:**

GGS2440 Broadmarsh Open Space, Harts Farm Way

**Client:**

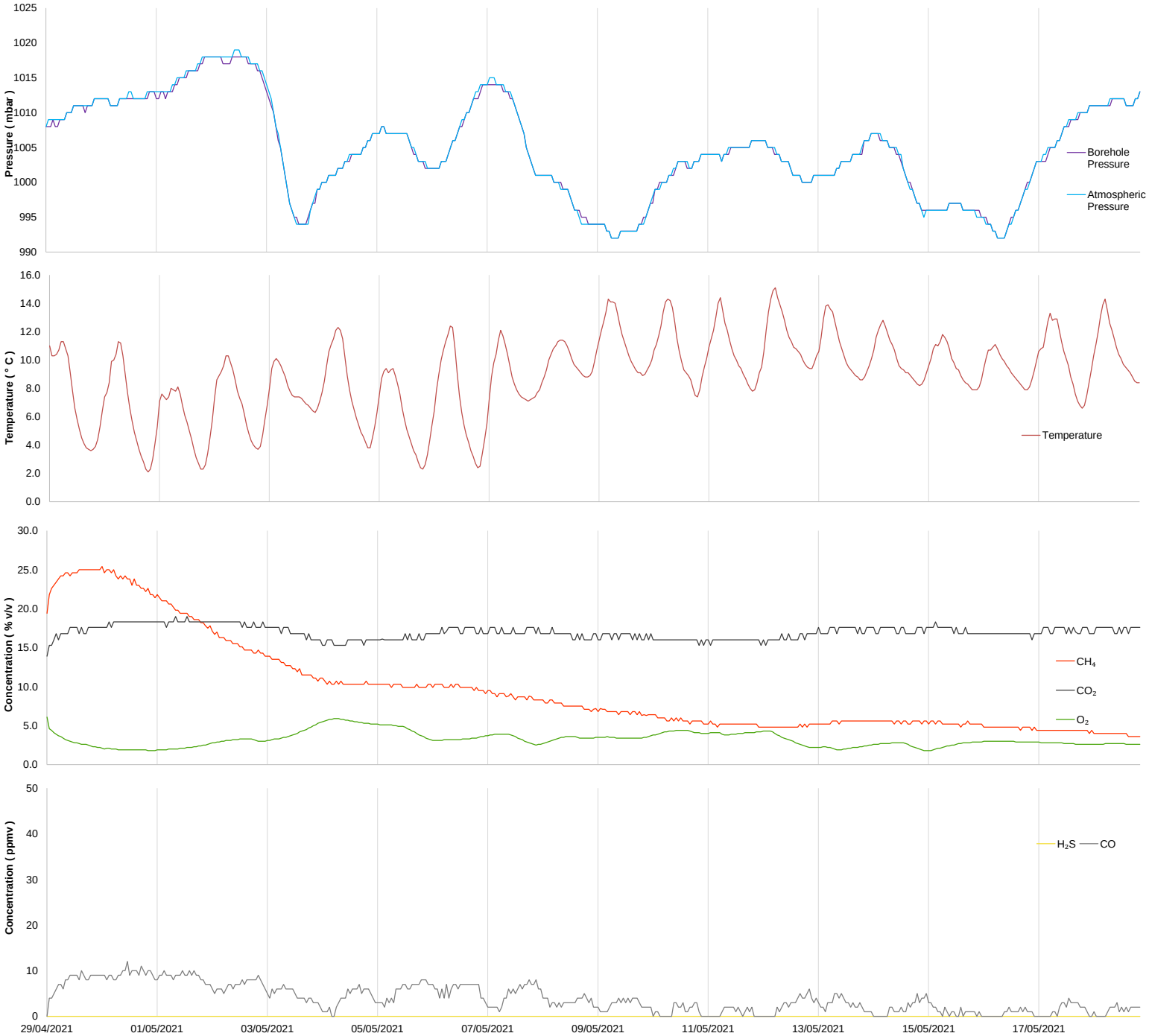
Delta-Simons Environmental Consultants Ltd.

| Minimum / Maximum Table | | |
|---|---|---|
| **Parameter** | **Minimum** | **Maximum** |
| $CH_4$ ( % v/v ) | 20.2 | 32.2 |
| $CO_2$ ( % v/v ) | 16.6 | 23.2 |
| $O_2$ ( % v/v ) | 0.0 | 0.0 |
| Hydrogen Sulphide ( ppmv ) | 0 | 0 |
| Carbon Monoxide ( ppmv ) | 0 | 5 |
| Atmospheric Pressure ( mbar ) | 995 | 1021 |
| Borehole Pressure ( mbar ) | 995 | 1021 |
| Temperature ( ° C ) | 5.9 | 18.6 |

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Experts in Continuous Monitoring

**Title:**

RO105 Time Series Graphs
29/04/21 - 19/05/21

**Project:**

GGS2440 Broadmarsh Open Space, Harts Farm Way

**Client:**

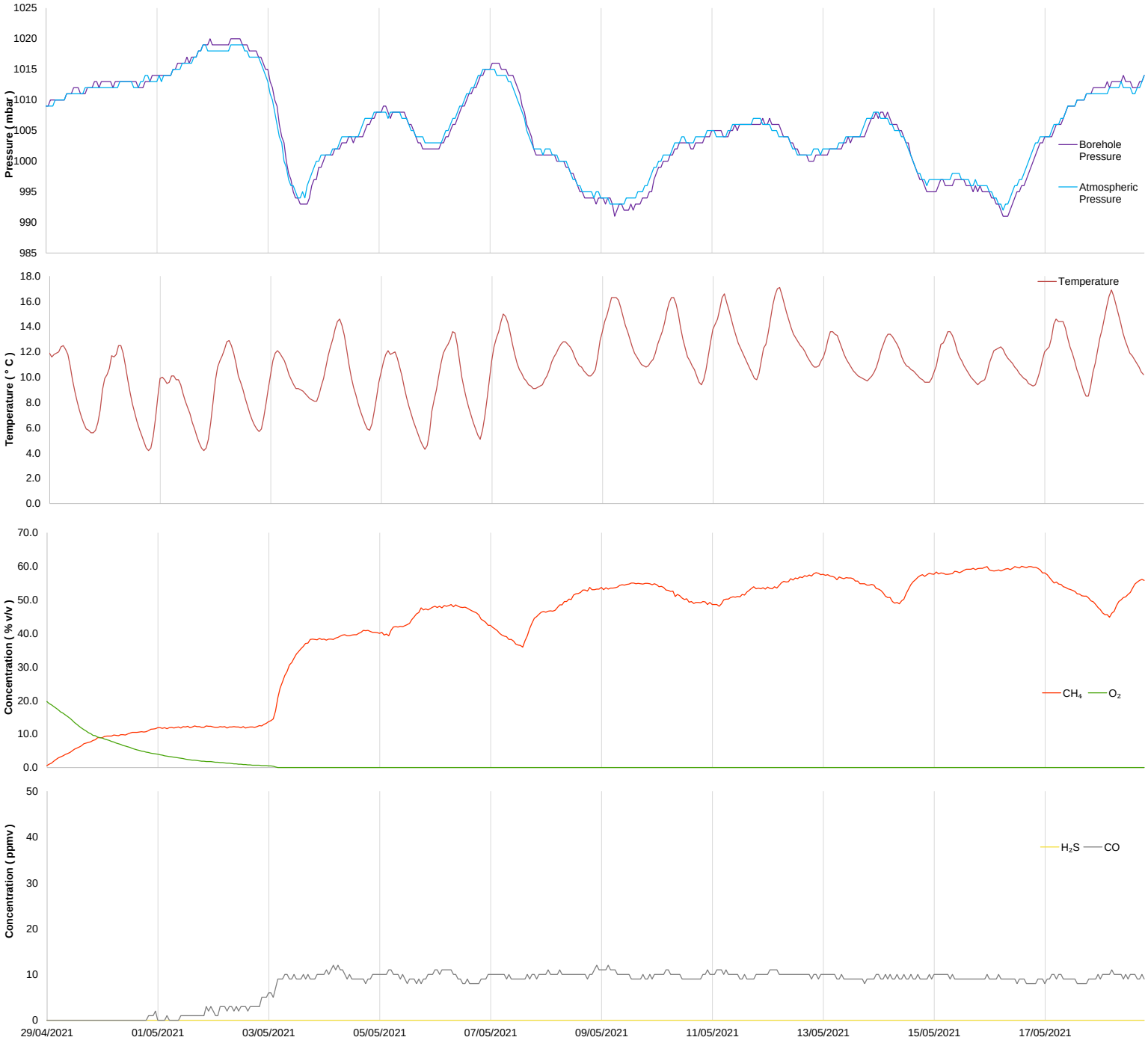
Delta-Simons Environmental Consultants Ltd.

| Minimum / Maximum Table | | |
|---|---|---|
| **Parameter** | **Minimum** | **Maximum** |
| $CH_4$ ( % v/v ) | 3.6 | 25.4 |
| $CO_2$ ( % v/v ) | 13.9 | 19.0 |
| $O_2$ ( % v/v ) | 1.8 | 6.1 |
| Hydrogen Sulphide ( ppmv ) | 0 | 0 |
| Carbon Monoxide ( ppmv ) | 0 | 12 |
| Atmospheric Pressure ( mbar ) | 992 | 1019 |
| Borehole Pressure ( mbar ) | 992 | 1018 |
| Temperature ( ° C ) | 2.1 | 15.1 |

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Experts in Continuous Monitoring

**Title:**

RO106 Time Series Graphs
29/04/21 - 19/05/21

**Project:**

GGS2440 Broadmarsh Open Space, Harts Farm Way

**Client:**

Delta-Simons Environmental Consultants Ltd.

| Minimum / Maximum Table | | |
|---|---|---|
| **Parameter** | **Minimum** | **Maximum** |
| $CH_4$ ( % v/v ) | 0.6 | 60.0 |
| $O_2$ ( % v/v ) | 0.0 | 19.7 |
| Hydrogen Sulphide ( ppmv ) | 0 | 0 |
| Carbon Monoxide ( ppmv ) | 0 | 12 |
| Atmospheric Pressure ( mbar ) | 992 | 1019 |
| Borehole Pressure ( mbar ) | 991 | 1020 |
| Temperature ( ° C ) | 4.2 | 17.1 |

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### 3.3 Atmospheric pressure trend analysis

Atmospheric pressure includes sampling during falling pressure events. To capture potential 'worst case' conditions monitoring should include both short and longer duration falling pressure events at a rate of 1.15 millibars per hour and above[1]. Table 3.2 below summarises the most significant atmospheric pressure events during the continuous monitoring period, whilst Figure 1 provides percentage distribution of the atmospheric pressure regime.

**Table 3.2** Atmospheric pressure regimes over the continuous monitoring period

| | |
|---|---|
| Monitoring period | 23/03/2021 – 19/05/2021 |
| Range in atmospheric pressure (mbar) | 992 – 1031 |
| Most significant atmospheric pressure fall over 8 millibar | 21 millibar over 14 hours (1.50mbar/hour)<br>(1017 08:00 03/05/21 – 996 22:00 03/05/21) |
| Most significant rate of fall (over 8 hours) | 1.63 mb/hour (13 millibars over 8 hours) |
| Number of samples taken under 1000mb | 101 (7.4%) |
| Number of samples taken below 1000mb and falling | 25 (1.8%) |

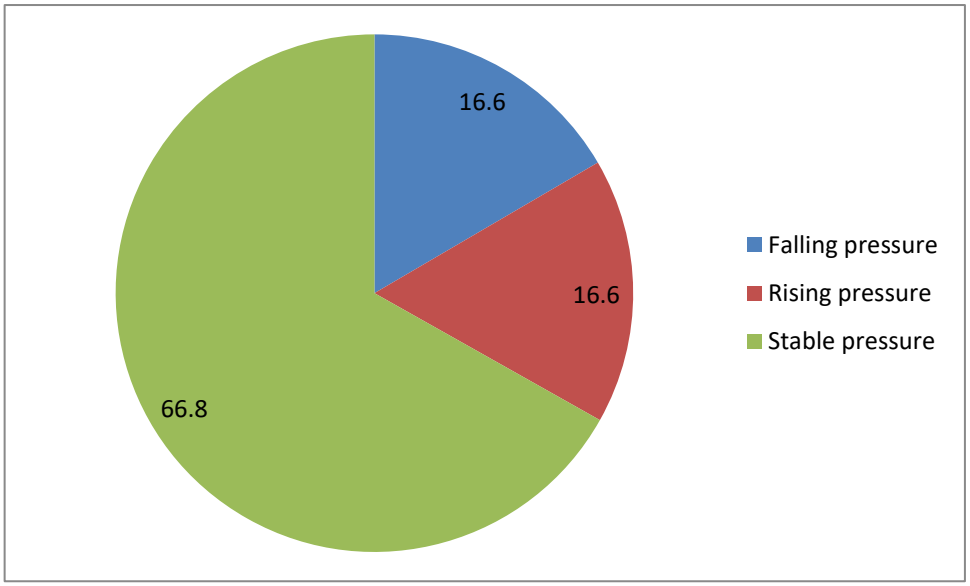



**Figure 1** Percentage distribution of the atmospheric pressure regime during the continuous monitoring period

[1] CL:AIRE Technical Bulletin TB18 Continuous Ground Gas Monitoring and the Lines of Evidence Approach to Risk Assessment. January 2019

Figure 2 below demonstrates that the most significant pressure falls captured during the continuous monitoring period (21 millibars over 14 hours) falls within 'worst case' conditions.

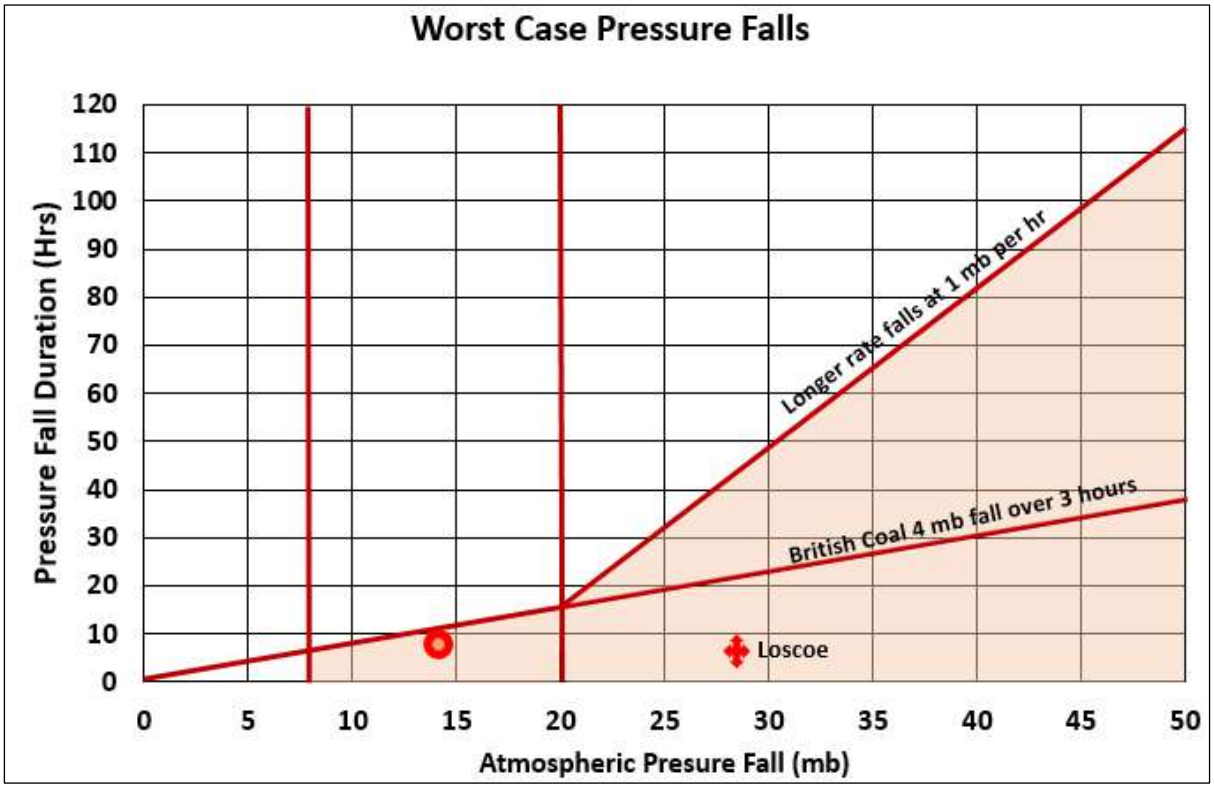



**Figure 2** Worst case pressure falls, with the most significant pressure fall captured during the monitoring period (21mbar over 14 hours).

Figures 3 and 4 below present the atmospheric pressure trend and the 8-hour average pressure change during the continuous monitoring period.

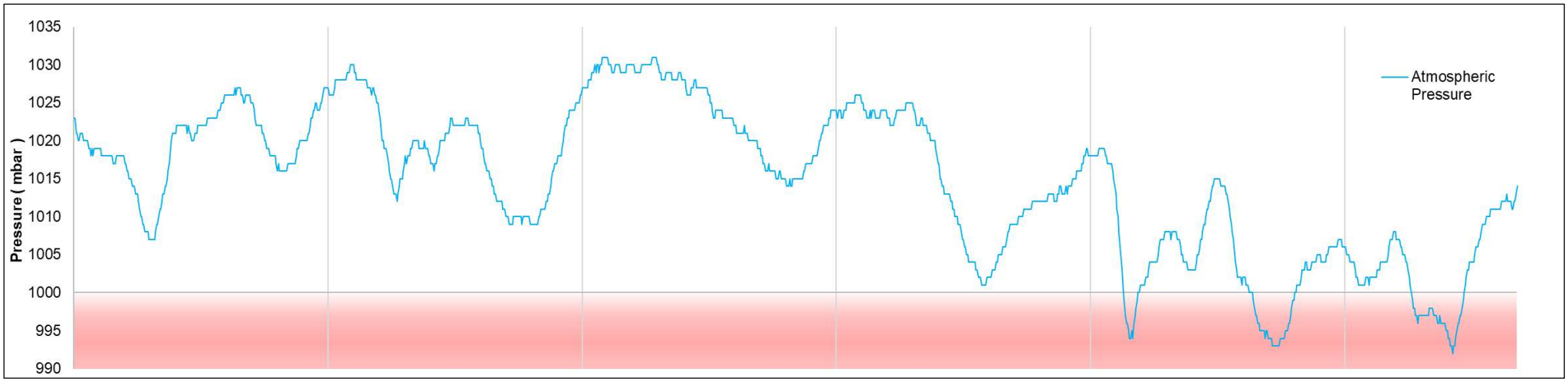



**Figure 3** Atmospheric pressure trend during the continuous monitoring period, with shaded area below 1000mb.

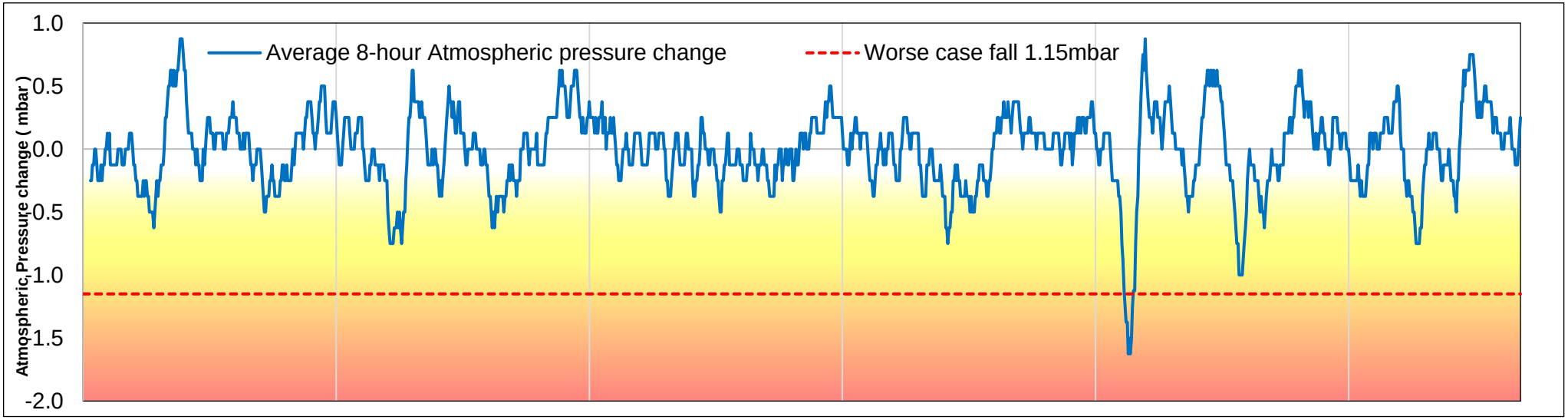



**Figure 4** 8-hour average atmospheric pressure trend during the continuous monitoring period.

### 3.4 Concentration duration analysis

Concentration duration analysis involves calculating the percentage of the monitoring period at which ground-gas concentrations were equalled to, or in exceedance of, a particular value. For example, high methane concentrations may be detected, but may only be present for a small percentage of the monitoring period. This is a valuable tool in risk assessment as it can be used to show the percentage time for which high risk gas concentrations are present throughout the monitoring period.

Concentration duration curves are presented in Appendix E. Table 3.3 below summarises the percentage time in which methane was at 1% v/v or above, 5% v/v or above and at 20% v/v or above. Table 3.4 below summarises the percentage time in which carbon dioxide was at 5% v/v or above, at 10% v/v or above and at 30% v/v or above.

**Table 3.3** Percentage time at or above 1%, 5% and 20% v/v methane

| | % of monitoring period that $CH_4$ equalled or exceeded: | | |
|---|---|---|---|
| Location ID | 1.0% v/v | 5.0% v/v | 20.0% v/v |
| RO101 | 100.0 | 100.0 | 100.0 |
| RO102 | 100.0 | 100.0 | 100.0 |
| RO103 | 100.0 | 99.5 | 99.0 |
| RO104 | 100.0 | 100.0 | 100.0 |
| RO105 | 100.0 | 80.9 | 11.3 |
| RO106 | 99.8 | 97.7 | 78.9 |

**Table 3.4** Percentage time at or above 5%, 10% and 30% v/v carbon dioxide

| | % of monitoring period that $CO_2$ equalled or exceeded: | | |
|---|---|---|---|
| Location ID | 5.0% v/v | 10.0% v/v | 30.0% v/v |
| RO101 | 100.0 | 100.0 | 0.0 |
| RO102 | 100.0 | 100.0 | 0.0 |
| RO103 | 99.3 | 98.9 | 0.0 |
| RO104 | 100.0 | 100.0 | 0.0 |
| RO105 | 100.0 | 100.0 | 0.0 |
| RO106 | N/A | N/A | N/A |

For locations RO101, RO102 and RO103, concentration duration has been calculated for the monitoring period 20/04/21 – 19/05/21. For locations RO104, RO104 and RO106 concentration duration has been calculated for the monitoring period 29/04/21 – 19/05/21.

### 3.5 Purge and recovery test flux rates

GGS PRT's were undertaken in RO101, RO103, RO104, RO106 on 20th April 2021. A summary of the calculated flux rates is presented in table 7.5 below, whilst all data and recovery profiles are presented in Appendix E.

**Table 7.5** Methane and carbon dioxide flux during each GGS PRT.

| BH ID | Date/Time | Methane flux (l/hr) | Carbon dioxide flux (l/hr) |
|---|---|---|---|
| RO101 | 20/04/21 14:45 | 6.696 | 3.895 |
| RO103 | 20/04/21 14:15 | 9.347 | 4.730 |
| RO104 | 20/04/21 16:10 | N/A | N/A |
| RO106 | 20/04/21 15:40 | 5.590 | 3.416 |

Flux calculations were not made for RO104 as no significant recovery was observed in the hour preceding each test.

# 4 Instrumentation specification

All GGS instrumentation is maintained in accordance with the manufacturer recommendations and is serviced and calibrated annually. Note that for some instrumentation cross sensitivity to other gases and significant environmental changes, such as temperature, pressure and humidity, should be taken into consideration when considering all site monitoring data.

The current calibration certificates for all equipment used on site are included in Appendix F, whist a summary of instruments specifications is presented below.

## 4.1 GasClam®

All GGS GasClam® instrumentation is maintained in accordance with the manufacturer recommendations and is factory serviced and calibrated annually. Routine maintenance including the replacement of filters, operational checks and gas checks are carried out at regular intervals and prior to deployment at a site.

An outline of the GGS GasClam® Instrumentation Overview & Deployment Information is presented in Appendix G.

## 4.1 Gas Sentinel®

The GGS instruments are serviced and calibrated annually. Routine maintenance including the replacement of filters and operational checks are carried out at regular intervals and prior to deployment at a site.

An outline of the GGS Gas Sentinel® Instrumentation Overview & Deployment Information is presented in Appendix G.

## 4.1 GA5000

The GA5000 and flow meter measures critical gases within landfill and other applications such as methane, carbon dioxide and oxygen with additional gases including hydrogen sulphide and carbon monoxide.

The sensors specifications are as follows:

**Table 5.2** GA5000 Sensor Specification

| Sensor | Method / Type | Range | Resolution |
|---|---|---|---|
| Methane | Dual wavelength infrared sensor | 0-100% | 0-70% : ±0.5% (vol) |
| Carbon Dioxide | Dual wavelength infrared sensor | 0-100% | 0-60% : ±0.5% (vol) |

| Sensor | Method / Type | Range | Resolution |
|---|---|---|---|
| Oxygen | Internal electrochemical sensor | 0-25% | 0-25% : ±1.0% (vol) |
| Carbon Monoxide | Internal electrochemical sensor | 0-500 ppm | ±2.0% FS |
| Hydrogen Sulphide | Internal electrochemical sensor | 0-500 ppm | ±2.0% FS |
| Flow | Pressure transducer | 0-20 l/hr | ±0.3 l/hr |
| Pressure | Pressure transducer | 500-1500 mbar | ±5 mbar |

# 5 Limitations

GGS has prepared this factual report for the use of the Client and those parties whom a warranty agreement has been executed, or with whom an assignment has been agreed. The client's appointed engineers can rely on the data included in this report and acquired at the specific monitoring locations selected for the purposes of this project.

GGS accepts no responsibility for the consequences of this document being used for any purpose or project other than for which it was commissioned or for the consequences arising from this document's use by any third party with whom an agreement has not been executed.

GGS accept no responsibility for the interpretation of this factual data. A reviewer of the data provided must take into account other available information and the context in which this data was collected. For example, site setting, conceptual site model, environmental conditions, gases present (that are not monitored as part of this contract, but may interfere with the sensors used), borehole construction and response zone information.

GGS accepts no responsibility for damages, if any, suffered by any third party as a result of decisions made or actions based on this factual report.

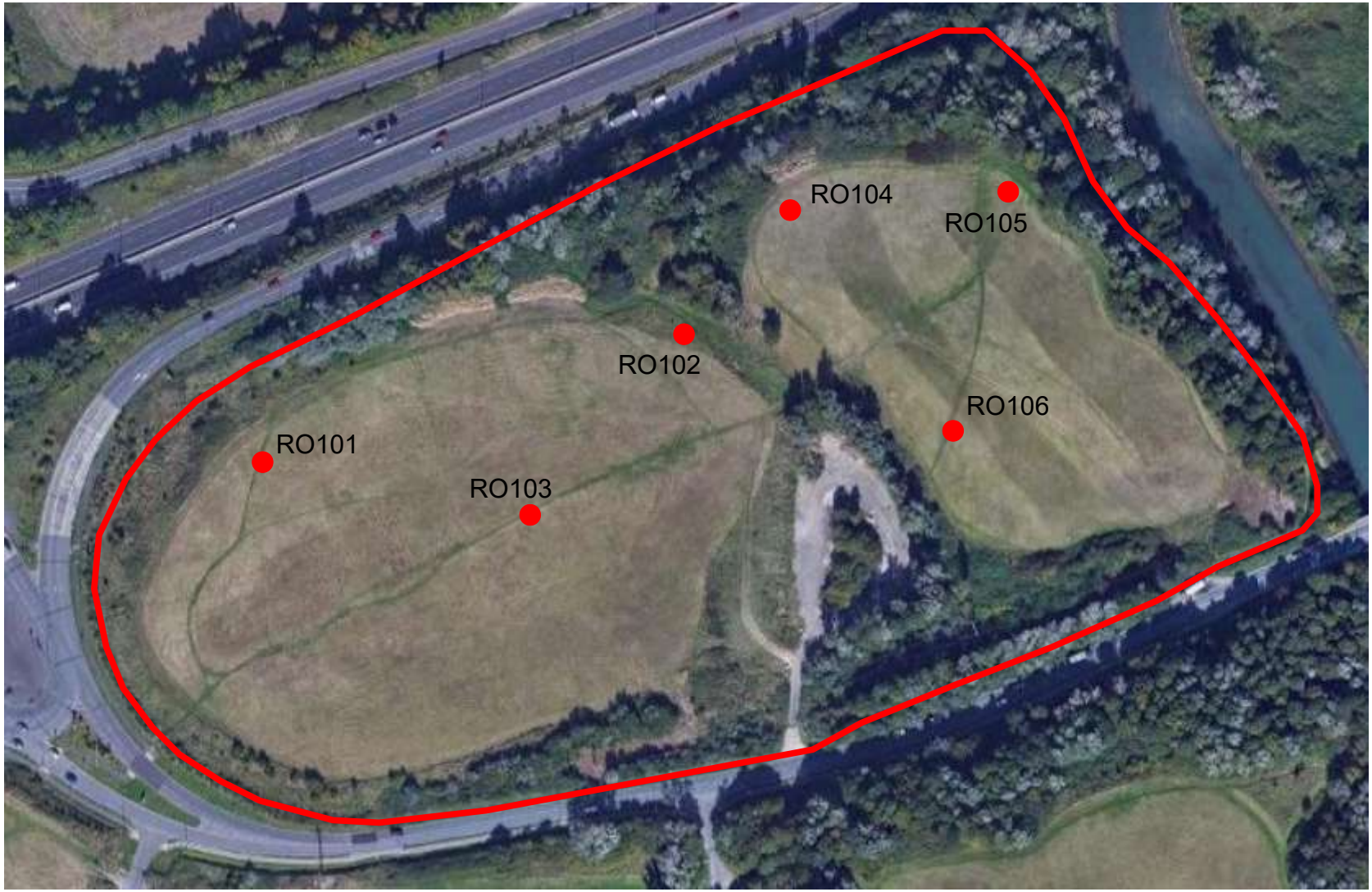
# Appendix A

## Site and Monitoring Location Plan

For: Delta-Simons Environmental Consultants Ltd.
Ref No.: GGS2440DP01
Date: 01/06/2021

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N




TITLE: SITE PLAN & MONITORING LOCATIONS

PROJECT: GGS2440
BROADMARSH OPEN SPACE
HARTS FARM WAY
HAVANT

KEY:

Installed Instruments

Site Boundary

ggs
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| Rev. | Date | Dwn. | Description | App'd |
|---|---|---|---|---|
| 0 | 08/04/2021 | AE | FINAL | HR |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

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# Appendix B

## Site Photographs



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# GGS DataPack®
# GGS2440 Broadmarsh Open Space, Harts Farm Way



*Broadmarsh open space. Facing S.*



*Periodic monitoring at Broadmarsh open space.*



*Instrument installation at RO104. Facing NW.*



*Monitoring well RO106. Facing SE.*



*Monitoring well RO102. Facing NE.*



*Broadmarsh open space. Facing NW.*

For: Delta-Simons Environmental Consultants Ltd.
Ref No.: GGS2440DP01
Date: 01/06/2021

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# Appendix C

## Periodic Monitoring Records

For: Delta-Simons Environmental Consultants Ltd.
Ref No.: GGS2440DP01
Date: 01/06/2021

Experts in Continuous Monitoring

Experts in Continuous Monitoring

IMS Ref: GMPM
Version: 2.2

| PROJECT DETAILS | | | |
|---|---|---|---|
| **Project ID** | GGS 2440 | **Date** | 23/03/2021 |
| **Site** | Broadmarsh Open Space, Harts farm way | **Time** | 13:16 |
| **Specialist** | AE | | |

| EQUIPMENT | |
|---|---|
| **Model** | **Serial Number** |
| GA5000 | G503519 |
| Dip tape | |
| | |

| PRESSURE DETAILS | Start: | End: |
|---|---|---|
| **Atmospheric Pressure (mb)** | 1024 | 1024 |
| **Borehole Pressure (mb)** | | |

| BOREHOLE DETAILS | |
|---|---|
| **Borehole ID** | RO101 |
| **Groundwater Level (mbgl)** | 7.89 |
| **Depth to base (mbgl)** | 10.18 |
| | |

**MONITORING WELL COMMENTS**

Extra Notes:

Headworks: Raised
Valve in rubber bung is clear and clean: Yes
Area surrounding borehole is: Dry

| TIME | Gas Flow | Gas Readings | | | | | |
|---|---|---|---|---|---|---|---|
| (seconds) | Litres/hour | $CH_4$ (% v/v) | $CO_2$ (% v/v) | $O_2$ (% v/v) | BAL | CO (ppmv) | $H_2S$ (ppmv) |
| Fresh Air | <0.1 | 0.1 | 0.1 | 20.7 | 79.1 | <1 | <1 |
| Initial | <0.1 | 64.0 | 26.0 | 10.0 | 0.0 | <1 | <1 |
| 30 | <0.1 | 64.3 | 25.3 | 0.4 | 10.0 | 1 | <1 |
| 60 | 0.1 | 64.5 | 25.2 | 0.2 | 10.1 | 1 | <1 |
| 120 | <0.1 | 64.5 | 25.2 | 0.1 | 10.2 | 1 | <1 |
| 180 | | 64.6 | 25.2 | 0.1 | 10.1 | 1 | <1 |
| 240 | | 64.7 | 25.2 | <0.1 | 10.1 | 1 | <1 |
| 300 | | 64.7 | 25.2 | <0.1 | 10.1 | 1 | <1 |
| 360 | | | | | | | |
| 420 | | | | | | | |
| 480 | | | | | | | |
| 540 | | | | | | | |
| 600 | | | | | | | |
| Fresh Air | <0.1 | 0.1 | 0.1 | 20.9 | 78.9 | <1 | <1 |

**STEADY STATE FINAL RESULTS**

| | Flow (l/hr) | $CH_4$ (%) | $CO_2$ (%) | $O_2$ (% v/v) | BAL | CO (ppm) | $H_2S$ (ppm) |
|---|---|---|---|---|---|---|---|
| **Steady state time (s)** | 120 | 240 | 60 | 240 | 180 | 30 | 30 |
| **Steady state value** | <0.1 | 64.7 | 25.2 | <0.1 | 10.1 | 1 | <1 |
| **Peak Value ($O_2$ Low)** | 0.1 | 64.7 | 26.0 | <0.1 | 10.2 | 1 | <1 |

KEY: <0.1= Below instrument limit of detection, NM = Not Measured, N/A = Not Applicable, %v/v = Percentage volume by volume, ppmv = parts per million by volume, mb = milibar, ltr/hr = litres per hour, mbgl = metres below ground level, OS = off scale of instrument

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IMS Ref: GMPM
Version: 2.2

| MONITORING WELL COMMENTS | |
|---|---|
| Headworks: Raised | Extra Notes: |
| Valve in rubber bung is clear and clean: Yes | Strong odour. |
| Area surrounding borehole is: Dry | |

| PROJECT DETAILS | | | |
|---|---|---|---|
| **Project ID** | GGS 2440 | **Date** | 23/03/2021 |
| **Site** | Broadmarsh Open Space, Harts farm way | **Time** | 13:02 |
| **Specialist** | AE | | |

| EQUIPMENT | |
|---|---|
| **Model** | **Serial Number** |
| GA5000 | G503519 |
| Dip tape | |
| | |

| PRESSURE DETAILS | Start: | End: |
|---|---|---|
| **Atmospheric Pressure (mb)** | 1024 | 1024 |
| **Borehole Pressure (mb)** | | |

| BOREHOLE DETAILS | |
|---|---|
| **Borehole ID** | RO102 |
| **Groundwater Level (mbgl)** | 7.59 |
| **Depth to base (mbgl)** | 8.50 |
| | |

| TIME | Gas Flow | Gas Readings | | | | | |
|---|---|---|---|---|---|---|---|
| (seconds) | Litres/hour | $CH_4$ (% v/v) | $CO_2$ (% v/v) | $O_2$ (% v/v) | BAL | CO (ppmv) | $H_2S$ (ppmv) |
| Fresh Air | <0.1 | <0.1 | 0.1 | 20.7 | 79.2 | <1 | <1 |
| Initial | <0.1 | 56.2 | 17.9 | 14.1 | 11.8 | <1 | 4 |
| 30 | <0.1 | 57.2 | 18.5 | 0.4 | 23.9 | 1 | 8 |
| 60 | <0.1 | 57.5 | 18.6 | 0.2 | 23.7 | 1 | 9 |
| 120 | | 57.6 | 18.5 | 0.1 | 23.8 | 1 | 12 |
| 180 | | 57.7 | 18.5 | <0.1 | 23.8 | 1 | 14 |
| 240 | | 57.6 | 18.5 | <0.1 | 23.9 | 1 | 16 |
| 300 | | 57.6 | 18.5 | <0.1 | 23.9 | 1 | 16 |
| 360 | | | | | | | |
| 420 | | | | | | | |
| 480 | | | | | | | |
| 540 | | | | | | | |
| 600 | | | | | | | |
| Fresh Air | <0.1 | 0.1 | 0.1 | 20.7 | 79.1 | <1 | <1 |

| STEADY STATE FINAL RESULTS | | | | | | | |
|---|---|---|---|---|---|---|---|
| | Flow (l/hr) | $CH_4$ (%) | $CO_2$ (%) | $O_2$ (% v/v) | BAL | CO (ppm) | $H_2S$ (ppm) |
| **Steady state time (s)** | 30 | 240 | 120 | 180 | 240 | 30 | 240 |
| **Steady state value** | <0.1 | 57.6 | 18.5 | <0.1 | 23.9 | 1 | 16 |
| **Peak Value ($O_2$ Low)** | <0.1 | 57.7 | 18.6 | <0.1 | 23.9 | 1 | 16 |

KEY: <0.1= Below instrument limit of detection, NM = Not Measured, N/A = Not Applicable, %v/v = Percentage volume by volume, ppmv = parts per million by volume, mb = milibar, ltr/hr = litres per hour, mbgl = metres below ground level, OS = off scale of instrument

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Version: 2.2

| MONITORING WELL COMMENTS |
|---|
| Extra Notes: |
| Headworks: Raised |
| Valve in rubber bung is clear and clean: Yes |
| Area surrounding borehole is: Dry |

| PROJECT DETAILS | | | |
|---|---|---|---|
| **Project ID** | GGS 2440 | **Date** | 23/03/2021 |
| **Site** | Broadmarsh Open Space, Harts farm way | **Time** | 13:26 |
| **Specialist** | AE | | |

| EQUIPMENT | |
|---|---|
| **Model** | **Serial Number** |
| GA5000 | G503519 |
| Dip tape | |
| | |

| PRESSURE DETAILS | Start: | End: |
|---|---|---|
| **Atmospheric Pressure (mb)** | 1024 | 1024 |
| **Borehole Pressure (mb)** | | |

| BOREHOLE DETAILS | |
|---|---|
| **Borehole ID** | RO103 |
| **Groundwater Level (mbgl)** | 7.21 |
| **Depth to base (mbgl)** | 9.03 |
| | |

| TIME | Gas Flow | Gas Readings | | | | | |
|---|---|---|---|---|---|---|---|
| (seconds) | Litres/hour | $CH_4$ (% v/v) | $CO_2$ (% v/v) | $O_2$ (% v/v) | BAL | CO (ppmv) | $H_2S$ (ppmv) |
| Fresh Air | <0.1 | 0.1 | 0.1 | 20.9 | 78.9 | <1 | <1 |
| Initial | 0.1 | 58.2 | 20.0 | 10.2 | 11.6 | 1 | <1 |
| 30 | 0.1 | 58.5 | 20.4 | 0.6 | 20.5 | 1 | <1 |
| 60 | 0.1 | 58.6 | 20.5 | 0.5 | 20.4 | 1 | <1 |
| 120 | 0.1 | 58.6 | 20.6 | 0.4 | 20.4 | 2 | <1 |
| 180 | | 58.7 | 20.8 | 0.3 | 20.2 | 2 | <1 |
| 240 | | 58.6 | 20.9 | 0.2 | 20.3 | 1 | <1 |
| 300 | | 58.6 | 21.1 | 0.2 | 20.1 | 1 | <1 |
| 360 | | 58.6 | 21.2 | 0.1 | 20.1 | 1 | <1 |
| 420 | | 58.4 | 21.2 | 0.1 | 20.3 | 1 | <1 |
| 480 | | 58.5 | 21.3 | 0.1 | 20.1 | 1 | <1 |
| 540 | | 58.4 | 21.3 | 0.1 | 20.2 | 1 | <1 |
| 600 | | | | | | | |
| Fresh Air | <0.1 | 0.1 | 0.1 | 21.1 | 78.7 | <1 | <1 |

| STEADY STATE FINAL RESULTS | | | | | | | |
|---|---|---|---|---|---|---|---|
| | Flow (l/hr) | $CH_4$ (%) | $CO_2$ (%) | $O_2$ (% v/v) | BAL | CO (ppm) | $H_2S$ (ppm) |
| **Steady state time (s)** | 30 | 420 | 480 | 360 | 540 | 240 | 30 |
| **Steady state value** | 0.1 | 58.4 | 21.3 | 0.1 | 20.2 | 1 | <1 |
| **Peak Value ($O_2$ Low)** | 0.1 | 58.7 | 21.3 | 0.1 | 20.5 | 2 | <1 |

KEY: <0.1= Below instrument limit of detection, NM = Not Measured, N/A = Not Applicable, %v/v = Percentage volume by volume, ppmv = parts per million by volume, mb = milibar, ltr/hr = litres per hour, mbgl = metres below ground level, OS = off scale of instrument

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Version: 2.2

| PROJECT DETAILS | | | |
|---|---|---|---|
| **Project ID** | GGS 2440 | **Date** | 23/03/2021 |
| **Site** | Broadmarsh Open Space, Harts farm way | **Time** | 12:20 |
| **Specialist** | AE | | |

| EQUIPMENT | |
|---|---|
| **Model** | **Serial Number** |
| GA5000 | G503519 |
| Dip tape | |
| | |

| PRESSURE DETAILS | Start: | End: |
|---|---|---|
| **Atmospheric Pressure (mb)** | 1024 | 1024 |
| **Borehole Pressure (mb)** | | |

| BOREHOLE DETAILS | |
|---|---|
| **Borehole ID** | RO104 |
| **Groundwater Level (mbgl)** | 8.04 |
| **Depth to base (mbgl)** | 10.97 |
| | |

**MONITORING WELL COMMENTS**

Extra Notes:

Headworks: Raised
Valve in rubber bung is clear and clean: Yes
Area surrounding borehole is: Dry

| TIME | Gas Flow | Gas Readings | | | | | |
|---|---|---|---|---|---|---|---|
| (seconds) | Litres/hour | $CH_4$ (% v/v) | $CO_2$ (% v/v) | $O_2$ (% v/v) | BAL | CO (ppmv) | $H_2S$ (ppmv) |
| Fresh Air | <0.1 | 0.1 | 0.1 | 21.0 | 78.8 | <1 | <1 |
| Initial | 0.1 | 30.5 | 17.8 | 16.2 | 35.5 | 3 | <1 |
| 30 | 0.1 | 30.8 | 18.3 | 1.4 | 49.5 | 4 | <1 |
| 60 | 0.1 | 30.7 | 18.4 | 0.2 | 50.7 | 5 | <1 |
| 120 | 0.1 | 20.2 | 18.3 | 0.1 | 61.4 | 5 | 1 |
| 180 | | 29.5 | 18.2 | 0.1 | 52.2 | 5 | 1 |
| 240 | | 29.1 | 18.2 | <0.1 | 52.7 | 5 | 1 |
| 300 | | 28.8 | 18.1 | <0.1 | 53.1 | 5 | 2 |
| 360 | | 28.4 | 18.1 | <0.1 | 53.5 | 5 | 2 |
| 420 | | 28.1 | 17.9 | <0.1 | 54.0 | 5 | 3 |
| 480 | | 27.9 | 17.9 | <0.1 | 54.2 | 5 | 3 |
| 540 | | 27.8 | 17.8 | <0.1 | 54.4 | 4 | 3 |
| 600 | | 27.8 | 17.7 | <0.1 | 54.5 | 5 | 3 |
| Fresh Air | <0.1 | 0.1 | 0.1 | 20.3 | 79.5 | <1 | <1 |

**STEADY STATE FINAL RESULTS**

| | Flow (l/hr) | $CH_4$ (%) | $CO_2$ (%) | $O_2$ (% v/v) | BAL | CO (ppm) | $H_2S$ (ppm) |
|---|---|---|---|---|---|---|---|
| **Steady state time (s)** | 30 | 540 | NA | 240 | NA | 60 | 420 |
| **Steady state value** | 0.1 | 27.8 | NA | <0.1 | NA | 5 | 3 |
| **Peak Value ($O_2$ Low)** | 0.1 | 30.8 | 18.4 | <0.1 | 61.4 | 5 | 3 |

KEY: <0.1= Below instrument limit of detection, NM = Not Measured, N/A = Not Applicable, %v/v = Percentage volume by volume, ppmv = parts per million by volume, mb = milibar, ltr/hr = litres per hour, mbgl = metres below ground level, OS = off scale of instrument

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Version: 2.2

| PROJECT DETAILS | | | |
|---|---|---|---|
| **Project ID** | GGS 2440 | **Date** | 23/03/2021 |
| **Site** | Broadmarsh Open Space, Harts farm way | **Time** | 12:35 |
| **Specialist** | AE | | |

| EQUIPMENT | |
|---|---|
| **Model** | **Serial Number** |
| GA5000 | G503519 |
| Dip tape | |
| | |

| PRESSURE DETAILS | Start: | End: |
|---|---|---|
| **Atmospheric Pressure (mb)** | 1024 | 1024 |
| **Borehole Pressure (mb)** | | |

| BOREHOLE DETAILS | |
|---|---|
| **Borehole ID** | RO105 |
| **Groundwater Level (mbgl)** | 4.97 |
| **Depth to base (mbgl)** | 10.90 |
| | |

| MONITORING WELL COMMENTS |
|---|
| Extra Notes: |
| Headworks: Raised |
| Valve in rubber bung is clear and clean: Yes |
| Area surrounding borehole is: Dry |

| TIME | Gas Flow | Gas Readings | | | | | |
|---|---|---|---|---|---|---|---|
| (seconds) | Litres/hour | $CH_4$ (% v/v) | $CO_2$ (% v/v) | $O_2$ (% v/v) | BAL | CO (ppmv) | $H_2S$ (ppmv) |
| Fresh Air | <0.1 | 0.1 | 0.1 | 20.3 | 79.5 | <1 | <1 |
| Initial | <0.1 | 18.2 | 13.3 | 15.2 | 53.3 | 10 | <1 |
| 30 | <0.1 | 18.5 | 11.3 | 6.8 | 63.4 | 16 | <1 |
| 60 | <0.1 | 19.0 | 11.4 | 6.0 | 63.6 | 16 | <1 |
| 120 | | 19.6 | 11.6 | 5.4 | 63.4 | 16 | <1 |
| 180 | | 20.1 | 11.8 | 5.0 | 63.1 | 16 | <1 |
| 240 | | 20.3 | 11.9 | 4.7 | 63.1 | 16 | <1 |
| 300 | | 20.4 | 11.8 | 4.6 | 63.2 | 16 | <1 |
| 360 | | 20.6 | 11.9 | 4.4 | 63.1 | 16 | <1 |
| 420 | | 20.8 | 11.9 | 4.2 | 63.1 | 15 | <1 |
| 480 | | 20.8 | 11.8 | 4.1 | 63.3 | 15 | <1 |
| 540 | | 20.9 | 11.9 | 3.9 | 63.3 | 15 | <1 |
| 600 | | 19.3 | 11.7 | 3.4 | 65.6 | 12 | <1 |
| Fresh Air | <0.1 | 0.1 | 0.1 | 20.5 | 79.3 | <1 | <1 |

| STEADY STATE FINAL RESULTS | | | | | | | |
|---|---|---|---|---|---|---|---|
| | Flow (l/hr) | $CH_4$ (%) | $CO_2$ (%) | $O_2$ (% v/v) | BAL | CO (ppm) | $H_2S$ (ppm) |
| **Steady state time (s)** | 30 | NA | NA | NA | NA | NA | 30 |
| **Steady state value** | <0.1 | NA | NA | NA | NA | NA | <1 |
| **Peak Value ($O_2$ Low)** | <0.1 | 20.9 | 13.3 | 3.4 | 65.6 | 16 | <1 |

KEY: <0.1= Below instrument limit of detection, NM = Not Measured, N/A = Not Applicable, %v/v = Percentage volume by volume, ppmv = parts per million by volume, mb = milibar, ltr/hr = litres per hour, mbgl = metres below ground level, OS = off scale of instrument

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| MONITORING WELL COMMENTS |
|---|
| Extra Notes: |
| Headworks: Raised |
| Valve in rubber bung is clear and clean: Yes |
| Area surrounding borehole is: Dry |

| PROJECT DETAILS | | | |
|---|---|---|---|
| **Project ID** | GGS 2440 | **Date** | 23/03/2021 |
| **Site** | Broadmarsh Open Space, Harts farm way | **Time** | 12:52 |
| **Specialist** | AE | | |

| EQUIPMENT | |
|---|---|
| **Model** | **Serial Number** |
| GA5000 | G503519 |
| Dip tape | |
| | |

| PRESSURE DETAILS | Start: | End: |
|---|---|---|
| **Atmospheric Pressure (mb)** | 1024 | 1024 |
| **Borehole Pressure (mb)** | | |

| BOREHOLE DETAILS | |
|---|---|
| **Borehole ID** | RO106 |
| **Groundwater Level (mbgl)** | 10.19 |
| **Depth to base (mbgl)** | 14.09 |
| | |

| TIME | Gas Flow | Gas Readings | | | | | |
|---|---|---|---|---|---|---|---|
| (seconds) | Litres/hour | $CH_4$ (% v/v) | $CO_2$ (% v/v) | $O_2$ (% v/v) | BAL | CO (ppmv) | $H_2S$ (ppmv) |
| Fresh Air | <0.1 | 0.1 | 0.1 | 20.5 | 79.3 | <1 | <1 |
| Initial | 0.1 | 28.3 | 14.3 | 2.5 | 54.9 | <1 | 1 |
| 30 | 0.1 | 28.5 | 14.4 | 0.2 | 56.9 | <1 | 1 |
| 60 | 0.1 | 28.5 | 14.4 | 0.1 | 57.0 | <1 | 1 |
| 120 | 0.1 | 28.5 | 14.4 | 0.1 | 57.0 | <1 | 1 |
| 180 | | 28.5 | 14.4 | 0.1 | 57.0 | <1 | 1 |
| 240 | | | | | | | |
| 300 | | | | | | | |
| 360 | | | | | | | |
| 420 | | | | | | | |
| 480 | | | | | | | |
| 540 | | | | | | | |
| 600 | | | | | | | |
| Fresh Air | <0.1 | <0.1 | 0.1 | 20.9 | 79.0 | <1 | <1 |

| STEADY STATE FINAL RESULTS | | | | | | | |
|---|---|---|---|---|---|---|---|
| | Flow (l/hr) | $CH_4$ (%) | $CO_2$ (%) | $O_2$ (% v/v) | BAL | CO (ppm) | $H_2S$ (ppm) |
| **Steady state time (s)** | 30 | 30 | 30 | 60 | 60 | 30 | 30 |
| **Steady state value** | 0.1 | 28.5 | 14.4 | 0.1 | 57.0 | <1 | 1 |
| **Peak Value ($O_2$ Low)** | 0.1 | 28.5 | 14.4 | 0.1 | 57.0 | <1 | 1 |

KEY: <0.1= Below instrument limit of detection, NM = Not Measured, N/A = Not Applicable, %v/v = Percentage volume by volume, ppmv = parts per million by volume, mb = milibar, ltr/hr = litres per hour, mbgl = metres below ground level, OS = off scale of instrument

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Version: 2.2

| MONITORING WELL COMMENTS |
|---|
| Extra Notes: |
| Headworks: Raised / Ground Level |
| Valve in rubber bung is clear and clean: Yes / No |
| Area surrounding borehole is: Dry / Damp / Saturated / Flooded |

| PROJECT DETAILS | | | |
|---|---|---|---|
| **Project ID** | 2440 | **Date** | 20/04/2021 |
| **Site** | Havant | **Time** | 14:20 |
| **Specialist** | AE | | |

| EQUIPMENT | |
|---|---|
| **Model** | **Serial Number** |
| GA5000 | |
| Dip tape | |
| | |

| PRESSURE DETAILS | Start: | End: |
|---|---|---|
| **Atmospheric Pressure (mb)** | 1018 | |
| **Borehole Pressure (mb)** | | |

| BOREHOLE DETAILS | |
|---|---|
| **Borehole ID** | RO101 |
| **Groundwater Level (mbgl)** | 8.03 |
| **Depth to base (mbgl)** | 10.26 |
| | |

| TIME | Gas Flow | Gas Readings | | | | | |
|---|---|---|---|---|---|---|---|
| (seconds) | Litres/hour | $CH_4$ (% v/v) | $CO_2$ (% v/v) | $O_2$ (% v/v) | BAL | CO (ppmv) | $H_2S$ (ppmv) |
| Fresh Air | | <0.1 | <0.1 | 20.9 | 79.1 | <1 | <1 |
| Initial | 0.0 | 0.0 | 0.2 | 16.6 | 83.2 | 1.0 | 0.0 |
| 30 | 0.0 | 50.9 | 23.1 | 0.5 | 25.5 | 1.0 | 0.0 |
| 60 | 0.1 | 51.2 | 23.2 | 0.3 | 25.3 | 1.0 | 0.0 |
| 120 | 0.1 | 51.5 | 23.3 | 0.2 | 25.0 | 1.0 | 0.0 |
| 180 | 0.1 | 51.8 | 23.3 | 0.1 | 24.8 | 1.0 | 0.0 |
| 240 | | 52.0 | 23.3 | 0.1 | 24.6 | 1.0 | 0.0 |
| 300 | | 52.3 | 23.3 | 0.1 | 24.3 | 1.0 | 1.0 |
| 360 | | 52.4 | 23.3 | 0.1 | 24.2 | 1.0 | 1.0 |
| 420 | | 52.2 | 23.2 | 0.1 | 24.5 | 1.0 | 4.0 |
| 480 | | 51.2 | 23.0 | 0.1 | 25.7 | 2.0 | 6.0 |
| 540 | | 49.7 | 22.6 | 0.1 | 27.6 | 1.0 | 6.0 |
| 600 | | 48.7 | 22.5 | 0.1 | 28.7 | 1.0 | 6.0 |
| Fresh Air | | 0.0 | 0.1 | 21.1 | 78.8 | 0.0 | 0.0 |

| STEADY STATE FINAL RESULTS | | | | | | | |
|---|---|---|---|---|---|---|---|
| | Flow (l/hr) | $CH_4$ (%) | $CO_2$ (%) | $O_2$ (% v/v) | BAL | CO (ppm) | $H_2S$ (ppm) |
| **Steady state time (s)** | 60 | 600 | 600 | 180 | 600 | 540 | 480 |
| **Steady state value** | 0.1 | 48.7 | 22.5 | 0.1 | 28.7 | 1 | 6 |
| **Peak Value ($O_2$ Low)** | 0.1 | 52.4 | 23.3 | 16.6 | 83.2 | 2 | 6 |

KEY: <0.1= Below instrument limit of detection, NM = Not Measured, N/A = Not Applicable, %v/v = Percentage volume by volume, ppmv = parts per million by volume, mb = milibar, ltr/hr = litres per hour, mbgl = metres below ground level, OS = off scale of instrument

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| MONITORING WELL COMMENTS |
|---|
| Extra Notes: |
| Headworks: Raised / Ground Level |
| Valve in rubber bung is clear and clean: Yes / No |
| Area surrounding borehole is: Dry / Damp / Saturated / Flooded |

| PROJECT DETAILS | | | |
|---|---|---|---|
| **Project ID** | 2440 | **Date** | 20/04/2021 |
| **Site** | Havant | **Time** | 14:50 |
| **Specialist** | AE | | |

| EQUIPMENT | |
|---|---|
| **Model** | **Serial Number** |
| GA5000 | |
| Dip tape | |
| | |

| PRESSURE DETAILS | Start: | End: |
|---|---|---|
| **Atmospheric Pressure (mb)** | 1018 | |
| **Borehole Pressure (mb)** | | |

| BOREHOLE DETAILS | |
|---|---|
| **Borehole ID** | RO102 |
| **Groundwater Level (mbgl)** | 7.81 |
| **Depth to base (mbgl)** | 8.47 |
| | |

| TIME | Gas Flow | Gas Readings | | | | | |
|---|---|---|---|---|---|---|---|
| (seconds) | Litres/hour | $CH_4$ (% v/v) | $CO_2$ (% v/v) | $O_2$ (% v/v) | BAL | CO (ppmv) | $H_2S$ (ppmv) |
| Fresh Air | | 0.0 | 0.1 | 20.2 | 79.7 | 1.0 | 0.0 |
| Initial | 0.0 | 58.4 | 23.9 | 2.2 | 15.5 | 2.0 | 0.0 |
| 30 | 0.1 | 59.0 | 24.7 | 0.3 | 16.0 | 2.0 | 0.0 |
| 60 | 0.1 | 59.1 | 24.7 | 0.2 | 16.0 | 2.0 | 0.0 |
| 120 | 0.1 | 59.3 | 24.7 | 0.1 | 15.9 | 2.0 | 0.0 |
| 180 | | 59.5 | 24.6 | 0.1 | 15.8 | 2.0 | 0.0 |
| 240 | | 59.7 | 24.6 | 0.1 | 15.6 | 1.0 | 0.0 |
| 300 | | 59.8 | 24.5 | 0.1 | 15.6 | 1.0 | 0.0 |
| 360 | | 60.0 | 24.5 | 0.1 | 15.4 | 2.0 | 0.0 |
| 420 | | 60.2 | 24.4 | 0.1 | 15.3 | 2.0 | 0.0 |
| 480 | | 60.3 | 24.3 | 0.1 | 15.3 | 2.0 | 0.0 |
| 540 | | 60.6 | 24.3 | 0.1 | 15.0 | 2.0 | 0.0 |
| 600 | | 60.7 | 24.3 | 0.0 | 15.0 | 1.0 | 0.0 |
| Fresh Air | | 0.1 | 0.1 | 21.4 | 78.4 | 0.0 | 0.0 |

| STEADY STATE FINAL RESULTS | | | | | | | |
|---|---|---|---|---|---|---|---|
| | Flow (l/hr) | $CH_4$ (%) | $CO_2$ (%) | $O_2$ (% v/v) | BAL | CO (ppm) | $H_2S$ (ppm) |
| **Steady state time (s)** | 30 | 600 | 600 | 600 | 540 | 600 | 30 |
| **Steady state value** | 0.1 | 60.7 | 24.3 | 0.0 | 15.0 | 1 | 0 |
| **Peak Value ($O_2$ Low)** | 0.1 | 60.7 | 24.7 | 2.2 | 16.0 | 2 | 0 |

KEY: <0.1= Below instrument limit of detection, NM = Not Measured, N/A = Not Applicable, %v/v = Percentage volume by volume, ppmv = parts per million by volume, mb = milibar, ltr/hr = litres per hour, mbgl = metres below ground level, OS = off scale of instrument

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Version: 2.2

| MONITORING WELL COMMENTS |
|---|
| Extra Notes: |
| Headworks: Raised / Ground Level |
| Valve in rubber bung is clear and clean: Yes / No |
| Area surrounding borehole is: Dry / Damp / Saturated / Flooded |

| PROJECT DETAILS | | | |
|---|---|---|---|
| **Project ID** | 2440 | **Date** | 20/04/2021 |
| **Site** | Havant | **Time** | 13:15 |
| **Specialist** | AE | | |

| EQUIPMENT | |
|---|---|
| **Model** | **Serial Number** |
| GA5000 | |
| Dip tape | |
| | |

| PRESSURE DETAILS | Start: | End: |
|---|---|---|
| **Atmospheric Pressure (mb)** | 1018 | |
| **Borehole Pressure (mb)** | | |

| BOREHOLE DETAILS | |
|---|---|
| **Borehole ID** | RO103 |
| **Groundwater Level (mbgl)** | 7.58 |
| **Depth to base (mbgl)** | 9.12 |
| | |

| TIME | Gas Flow | Gas Readings | | | | | |
|---|---|---|---|---|---|---|---|
| (seconds) | Litres/hour | $CH_4$ (% v/v) | $CO_2$ (% v/v) | $O_2$ (% v/v) | BAL | CO (ppmv) | $H_2S$ (ppmv) |
| Fresh Air | | 0.2 | 0.1 | 20.9 | 78.8 | 0.0 | 0.0 |
| Initial | 0.0 | 0.1 | 0.1 | 20.7 | 79.1 | 0.0 | 0.0 |
| 30 | 0.1 | 59.6 | 25.9 | 0.6 | 13.9 | 1.0 | 0.0 |
| 60 | 0.1 | 59.8 | 26.2 | 0.2 | 13.8 | 2.0 | 0.0 |
| 120 | 0.1 | 59.9 | 26.2 | 0.2 | 13.7 | 1.0 | 0.0 |
| 180 | 0.1 | 60.1 | 26.1 | 0.1 | 13.7 | 2.0 | 0.0 |
| 240 | | 60.1 | 26.1 | 0.1 | 13.7 | 2.0 | 0.0 |
| 300 | | 60.3 | 26.1 | 0.1 | 13.5 | 2.0 | 0.0 |
| 360 | | 60.3 | 26.0 | 0.1 | 13.6 | 2.0 | 1.0 |
| 420 | | 60.3 | 26.0 | 0.1 | 13.6 | 1.0 | 3.0 |
| 480 | | 60.3 | 26.0 | 0.1 | 13.6 | 2.0 | 5.0 |
| 540 | | 60.4 | 26.0 | 0.1 | 13.5 | 1.0 | 7.0 |
| 600 | | 60.4 | 26.1 | 0.1 | 13.4 | 1.0 | 9.0 |
| Fresh Air | | 0.2 | 0.1 | 20.6 | 79.1 | 1.0 | 0.0 |

| STEADY STATE FINAL RESULTS | | | | | | | |
|---|---|---|---|---|---|---|---|
| | Flow (l/hr) | $CH_4$ (%) | $CO_2$ (%) | $O_2$ (% v/v) | BAL | CO (ppm) | $H_2S$ (ppm) |
| **Steady state time (s)** | 30 | 540 | 600 | 180 | 600 | 540 | 600 |
| **Steady state value** | 0.1 | 60.4 | 26.1 | 0.1 | 13.4 | 1 | 9 |
| **Peak Value ($O_2$ Low)** | 0.1 | 60.4 | 26.2 | 20.7 | 79.1 | 2 | 9 |

KEY: <0.1= Below instrument limit of detection, NM = Not Measured, N/A = Not Applicable, %v/v = Percentage volume by volume, ppmv = parts per million by volume, mb = milibar, ltr/hr = litres per hour, mbgl = metres below ground level, OS = off scale of instrument

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GGS DataPack®
GGS2440 Broadmarsh Open Space, Harts Farm Way

# Appendix D

## Continuous Monitoring Data

For: Delta-Simons Environmental Consultants Ltd.
Ref No.: GGS2440DP01
Date: 01/06/2021

Experts in Continuous Monitoring

# GGS Time Series Data

Experts in Continuous Monitoring

| | | | |
|---|---|---|---|
| **Project Ref:** | GGS2440 | | |
| **Location:** | Broadmarsh Open Space, Harts Farm Way | | |
| **Borehole ref:** | RO104 | | |
| **Sentinel ID:** | #36 | Days of monitoring: | 25 |
| **Start Date:** | 23/03/2021 15:01 | Monitoring Frequency (mins): | 60 |
| **End Date:** | 18/04/2021 05:01 | Total samples taken: | 615 |

**Minimum, Maximum and Range Table**

| | $CH_4$ | $CO_2$ | $O_2$ | $H_2S$ | CO | Atmospheric Pressure | Flow | Temperature | Water Level |
|---|---|---|---|---|---|---|---|---|---|
| **Minimum** | 0.0 | 0.0 | 0.0 | 0 | 0 | 1006 | -0.04 | -2.4 | 8.04 |
| **Maximum** | 30.0 | 17.6 | 5.0 | 3 | 5 | 1031 | 0.09 | 21.7 | 8.06 |
| **Range** | 30.0 | 17.6 | 5.0 | 3 | 5 | 25 | 0.13 | 24.1 | 0.02 |

| Date and Time | $CH_4$ % v/v | $CO_2$ % v/v | $O_2$ % v/v | $H_2S$ ppm/v | CO ppm/v | Atmospheric Pressure mbar | Flow Ltr/hr | Temperature °C | Water Level mbgl |
|---|---|---|---|---|---|---|---|---|---|
| 23/03/2021 15:01 | 17.6 | 10.8 | 5.0 | 0 | 3 | 1020 | 0.03 | 12.2 | 8.04 |
| 23/03/2021 16:01 | 20.9 | 13.3 | 2.7 | 0 | 3 | 1020 | 0.04 | 12.5 | 8.05 |
| 23/03/2021 17:01 | 23.9 | 15.8 | 0.9 | 1 | 3 | 1019 | 0.04 | 12.0 | 8.05 |
| 23/03/2021 18:01 | 24.7 | 16.7 | 0.4 | 1 | 3 | 1019 | 0.00 | 10.6 | 8.05 |
| 23/03/2021 19:01 | 24.8 | 17.1 | 0.3 | 1 | 3 | 1020 | 0.02 | 8.9 | 8.05 |
| 23/03/2021 20:01 | 25.1 | 17.3 | 0.2 | 1 | 3 | 1020 | 0.03 | 7.6 | 8.05 |
| 23/03/2021 21:01 | 25.2 | 17.3 | 0.2 | 1 | 3 | 1020 | 0.01 | 6.8 | 8.05 |
| 23/03/2021 22:01 | 24.9 | 17.5 | 0.2 | 1 | 3 | 1020 | 0.02 | 6.2 | 8.05 |
| 23/03/2021 23:01 | 24.8 | 17.5 | 0.2 | 1 | 3 | 1020 | 0.02 | 5.2 | 8.05 |
| 24/03/2021 00:01 | 24.3 | 17.4 | 0.1 | 1 | 3 | 1020 | 0.02 | 4.7 | 8.05 |
| 24/03/2021 01:01 | 24.7 | 17.4 | 0.1 | 1 | 3 | 1019 | 0.03 | 4.3 | 8.05 |
| 24/03/2021 02:01 | 24.4 | 17.4 | 0.1 | 1 | 3 | 1019 | 0.02 | 3.6 | 8.05 |
| 24/03/2021 03:01 | 24.1 | 17.4 | 0.1 | 1 | 3 | 1019 | 0.03 | 3.1 | 8.05 |
| 24/03/2021 04:01 | 24.2 | 17.4 | 0.1 | 1 | 2 | 1018 | 0.02 | 2.1 | 8.05 |
| 24/03/2021 05:01 | 24.5 | 17.4 | 0.1 | 1 | 2 | 1018 | 0.02 | 1.5 | 8.05 |
| 24/03/2021 06:01 | 24.3 | 17.3 | 0.1 | 1 | 2 | 1018 | -0.02 | 0.6 | 8.05 |
| 24/03/2021 07:01 | 24.0 | 17.3 | 0.1 | 1 | 2 | 1018 | 0.01 | 1.6 | 8.06 |
| 24/03/2021 08:01 | 24.0 | 17.2 | 0.2 | 1 | 2 | 1019 | 0.00 | 4.6 | 8.06 |
| 24/03/2021 09:01 | 24.7 | 17.6 | 0.2 | 1 | 3 | 1019 | 0.01 | 8.5 | 8.06 |
| 24/03/2021 10:01 | 24.6 | 17.3 | 0.2 | 1 | 3 | 1019 | 0.02 | 10.0 | 8.05 |
| 24/03/2021 11:01 | 24.3 | 17.0 | 0.2 | 1 | 3 | 1018 | 0.03 | 11.1 | 8.05 |
| 24/03/2021 12:01 | 24.3 | 17.0 | 0.2 | 1 | 3 | 1018 | 0.02 | 12.3 | 8.05 |
| 24/03/2021 13:01 | 24.1 | 16.9 | 0.2 | 1 | 3 | 1018 | 0.01 | 12.6 | 8.05 |
| 24/03/2021 14:01 | 23.6 | 16.8 | 0.1 | 1 | 3 | 1017 | 0.02 | 12.0 | 8.05 |
| 24/03/2021 15:01 | 23.8 | 16.8 | 0.1 | 1 | 3 | 1017 | -0.01 | 12.2 | 8.05 |
| 24/03/2021 16:01 | 23.5 | 16.7 | 0.1 | 1 | 3 | 1017 | 0.01 | 12.2 | 8.05 |
| 24/03/2021 17:01 | 23.6 | 16.6 | 0.2 | 1 | 3 | 1017 | 0.02 | 12.2 | 8.05 |
| 24/03/2021 18:01 | 23.5 | 16.8 | 0.1 | 1 | 3 | 1017 | 0.00 | 11.8 | 8.06 |
| 24/03/2021 19:01 | 23.7 | 16.9 | 0.1 | 1 | 3 | 1017 | 0.03 | 10.3 | 8.06 |
| 24/03/2021 20:01 | 23.1 | 16.7 | 0.1 | 1 | 3 | 1018 | 0.01 | 9.4 | 8.06 |
| 24/03/2021 21:01 | 23.2 | 16.9 | 0.1 | 1 | 2 | 1018 | 0.03 | 8.6 | 8.06 |
| 24/03/2021 22:01 | 23.0 | 16.8 | 0.1 | 1 | 2 | 1017 | 0.03 | 8.9 | 8.06 |
| 24/03/2021 23:01 | 22.5 | 16.9 | 0.1 | 1 | 2 | 1017 | 0.00 | 9.0 | 8.06 |
| 25/03/2021 00:01 | 22.4 | 17.0 | 0.1 | 1 | 2 | 1017 | 0.02 | 8.2 | 8.06 |
| 25/03/2021 01:01 | 22.3 | 16.8 | 0.1 | 1 | 2 | 1017 | 0.02 | 7.3 | 8.05 |
| 25/03/2021 02:01 | 23.1 | 17.1 | 0.1 | 1 | 2 | 1017 | 0.02 | 6.8 | 8.05 |
| 25/03/2021 03:01 | 22.2 | 16.9 | 0.1 | 1 | 2 | 1017 | 0.03 | 5.8 | 8.05 |
| 25/03/2021 04:01 | 22.6 | 17.1 | 0.1 | 1 | 2 | 1017 | 0.00 | 4.6 | 8.05 |
| 25/03/2021 05:01 | 22.9 | 17.3 | 0.1 | 1 | 2 | 1017 | 0.01 | 4.3 | 8.05 |
| 25/03/2021 06:01 | 22.2 | 17.1 | 0.1 | 1 | 2 | 1017 | 0.00 | 3.4 | 8.05 |
| 25/03/2021 07:01 | 22.6 | 17.1 | 0.1 | 1 | 2 | 1017 | 0.00 | 5.1 | 8.05 |
| 25/03/2021 08:01 | 22.7 | 17.0 | 0.1 | 1 | 2 | 1017 | 0.00 | 7.2 | 8.06 |
| 25/03/2021 09:01 | 22.9 | 17.0 | 0.1 | 1 | 2 | 1017 | 0.03 | 9.3 | 8.06 |
| 25/03/2021 10:01 | 23.7 | 17.0 | 0.1 | 1 | 2 | 1017 | 0.03 | 11.2 | 8.06 |
| 25/03/2021 11:01 | 23.4 | 16.7 | 0.1 | 1 | 2 | 1017 | 0.03 | 11.9 | 8.06 |
| 25/03/2021 12:01 | 23.3 | 16.7 | 0.1 | 1 | 2 | 1016 | 0.04 | 12.2 | 8.06 |
| 25/03/2021 13:01 | 23.0 | 16.5 | 0.1 | 1 | 2 | 1016 | 0.05 | 12.2 | 8.06 |
| 25/03/2021 14:01 | 23.0 | 16.4 | 0.1 | 1 | 2 | 1015 | 0.05 | 10.8 | 8.05 |
| 25/03/2021 15:01 | 22.8 | 16.2 | 0.0 | 1 | 2 | 1015 | 0.04 | 10.4 | 8.05 |
| 25/03/2021 16:01 | 23.1 | 16.2 | 0.0 | 1 | 2 | 1014 | 0.04 | 11.1 | 8.05 |
| 25/03/2021 17:01 | 23.2 | 16.4 | 0.0 | 1 | 2 | 1014 | 0.04 | 10.7 | 8.05 |
| 25/03/2021 18:01 | 23.3 | 16.4 | 0.0 | 1 | 2 | 1014 | 0.03 | 10.4 | 8.05 |
| 25/03/2021 19:01 | 23.0 | 16.5 | 0.0 | 1 | 2 | 1014 | 0.03 | 9.5 | 8.05 |
| 25/03/2021 20:01 | 23.0 | 16.4 | 0.0 | 1 | 2 | 1014 | 0.03 | 9.2 | 8.05 |
| 25/03/2021 21:01 | 22.7 | 16.4 | 0.0 | 1 | 2 | 1014 | 0.03 | 9.0 | 8.06 |
| 25/03/2021 22:01 | 22.6 | 16.5 | 0.0 | 1 | 2 | 1013 | 0.03 | 9.8 | 8.06 |
| 25/03/2021 23:01 | 22.5 | 16.6 | 0.0 | 1 | 2 | 1013 | 0.02 | 9.6 | 8.06 |
| 26/03/2021 00:01 | 22.6 | 16.5 | 0.0 | 2 | 2 | 1012 | 0.03 | 9.6 | 8.05 |
| 26/03/2021 01:01 | 22.9 | 16.6 | 0.0 | 2 | 2 | 1012 | 0.06 | 9.4 | 8.05 |
| 26/03/2021 02:01 | 23.2 | 16.6 | 0.0 | 2 | 2 | 1011 | 0.06 | 9.6 | 8.05 |
| 26/03/2021 03:01 | 23.0 | 16.6 | 0.0 | 2 | 2 | 1011 | 0.05 | 9.8 | 8.05 |
| 26/03/2021 04:01 | 23.1 | 16.7 | 0.0 | 2 | 2 | 1010 | 0.05 | 9.5 | 8.05 |
| 26/03/2021 05:01 | 22.8 | 16.5 | 0.0 | 2 | 2 | 1009 | 0.06 | 9.3 | 8.05 |
| 26/03/2021 06:01 | 23.1 | 16.5 | 0.0 | 2 | 2 | 1009 | 0.05 | 9.1 | 8.05 |
| 26/03/2021 07:01 | 21.8 | 16.2 | 0.0 | 2 | 2 | 1008 | 0.06 | 9.5 | 8.05 |
| 26/03/2021 08:01 | 21.8 | 16.3 | 0.0 | 2 | 2 | 1008 | 0.06 | 9.9 | 8.05 |
| 26/03/2021 09:01 | 21.7 | 16.1 | 0.0 | 2 | 2 | 1008 | 0.07 | 10.8 | 8.05 |
| 26/03/2021 10:01 | 21.4 | 15.9 | 0.0 | 2 | 2 | 1008 | 0.07 | 10.9 | 8.05 |
| 26/03/2021 11:01 | 21.3 | 15.6 | 0.0 | 2 | 2 | 1007 | 0.09 | 10.9 | 8.05 |
| 26/03/2021 12:01 | 20.9 | 15.3 | 0.0 | 2 | 2 | 1006 | 0.08 | 11.9 | 8.05 |
| 26/03/2021 13:01 | 21.4 | 15.3 | 0.1 | 1 | 2 | 1006 | 0.01 | 12.4 | 8.05 |
| 26/03/2021 14:01 | 20.6 | 15.3 | 0.0 | 1 | 2 | 1006 | 0.05 | 8.1 | 8.05 |
| 26/03/2021 15:01 | 20.3 | 15.1 | 0.0 | 1 | 2 | 1006 | 0.02 | 8.6 | 8.05 |
| 26/03/2021 16:01 | 20.3 | 15.1 | 0.1 | 1 | 2 | 1006 | 0.03 | 8.3 | 8.05 |
| 26/03/2021 17:01 | 19.9 | 15.1 | 0.1 | 1 | 2 | 1006 | 0.03 | 8.4 | 8.05 |
| 26/03/2021 18:01 | 20.6 | 15.2 | 0.4 | 1 | 2 | 1007 | 0.00 | 8.1 | 8.05 |
| 26/03/2021 19:01 | 20.2 | 15.3 | 0.5 | 1 | 2 | 1007 | -0.02 | 7.3 | 8.05 |
| 26/03/2021 20:01 | 19.8 | 14.8 | 0.7 | 1 | 2 | 1008 | -0.01 | 6.4 | 8.05 |
| 26/03/2021 21:01 | 19.9 | 15.2 | 0.7 | 1 | 2 | 1009 | 0.00 | 4.7 | 8.05 |
| 26/03/2021 22:01 | 20.2 | 15.3 | 0.7 | 1 | 2 | 1009 | -0.03 | 5.1 | 8.05 |
| 26/03/2021 23:01 | 20.3 | 15.4 | 0.6 | 1 | 2 | 1009 | 0.00 | 5.2 | 8.05 |
| 27/03/2021 00:01 | 20.0 | 15.2 | 0.8 | 1 | 1 | 1010 | -0.02 | 5.1 | 8.06 |
| 27/03/2021 01:01 | 19.9 | 15.2 | 0.7 | 1 | 1 | 1011 | 0.00 | 4.4 | 8.05 |
| 27/03/2021 02:01 | 19.9 | 15.3 | 0.7 | 1 | 1 | 1011 | 0.00 | 4.1 | 8.05 |
| 27/03/2021 03:01 | 20.4 | 15.2 | 0.8 | 1 | 1 | 1012 | -0.01 | 4.4 | 8.05 |
| 27/03/2021 04:01 | 19.2 | 14.6 | 1.3 | 1 | 1 | 1013 | -0.01 | 4.0 | 8.05 |
| 27/03/2021 05:01 | 19.2 | 14.6 | 1.6 | 1 | 1 | 1014 | -0.01 | 3.7 | 8.05 |
| 27/03/2021 06:01 | 18.6 | 14.3 | 1.7 | 1 | 1 | 1015 | 0.02 | 3.4 | 8.05 |
| 27/03/2021 07:01 | 18.3 | 13.8 | 2.1 | 1 | 1 | 1016 | -0.02 | 4.5 | 8.05 |
| 27/03/2021 08:01 | 17.6 | 13.1 | 2.5 | 1 | 1 | 1017 | 0.00 | 5.8 | 8.05 |
| 27/03/2021 09:01 | 16.5 | 12.2 | 3.2 | 1 | 1 | 1018 | -0.01 | 6.9 | 8.05 |
| 27/03/2021 10:01 | 17.5 | 12.3 | 3.0 | 0 | 1 | 1018 | -0.01 | 8.2 | 8.05 |
| 27/03/2021 11:01 | 18.0 | 12.4 | 2.7 | 0 | 2 | 1019 | -0.01 | 9.2 | 8.05 |
| 27/03/2021 12:01 | 19.0 | 12.7 | 2.3 | 0 | 2 | 1020 | -0.01 | 9.9 | 8.06 |
| 27/03/2021 13:01 | 19.9 | 12.9 | 1.8 | 0 | 2 | 1020 | 0.01 | 9.6 | 8.05 |
| 27/03/2021 14:01 | 20.6 | 13.1 | 1.4 | 0 | 2 | 1020 | 0.01 | 10.2 | 8.05 |

| Date and Time | $CH_4$ % v/v | $CO_2$ % v/v | $O_2$ % v/v | $H_2S$ ppm/v | CO ppm/v | Atmospheric Pressure mbar | Flow Ltr/hr | Temperature °C | Water Level mbgl |
|---|---|---|---|---|---|---|---|---|---|
| 27/03/2021 15:01 | 21.6 | 13.6 | 0.9 | 0 | 2 | 1020 | 0.04 | 10.2 | 8.05 |
| 27/03/2021 16:01 | 22.5 | 13.6 | 0.5 | 0 | 2 | 1020 | 0.03 | 10.9 | 8.05 |
| 27/03/2021 17:01 | 23.3 | 14.0 | 0.3 | 0 | 2 | 1020 | 0.01 | 10.6 | 8.05 |
| 27/03/2021 18:01 | 22.8 | 14.1 | 0.1 | 0 | 2 | 1020 | 0.04 | 10.0 | 8.05 |
| 27/03/2021 19:01 | 22.5 | 14.8 | 0.1 | 0 | 2 | 1020 | 0.02 | 9.6 | 8.05 |
| 27/03/2021 20:01 | 22.3 | 15.3 | 0.1 | 0 | 2 | 1021 | 0.02 | 8.5 | 8.05 |
| 27/03/2021 21:01 | 22.5 | 15.3 | 0.1 | 1 | 2 | 1021 | 0.03 | 8.0 | 8.05 |
| 27/03/2021 22:01 | 22.1 | 15.4 | 0.0 | 1 | 2 | 1021 | -0.01 | 8.2 | 8.05 |
| 27/03/2021 23:01 | 21.5 | 15.2 | 0.0 | 1 | 2 | 1021 | 0.04 | 8.3 | 8.05 |
| 28/03/2021 00:01 | 22.1 | 15.4 | 0.0 | 1 | 1 | 1020 | 0.02 | 8.6 | 8.05 |
| 28/03/2021 01:01 | 22.1 | 15.6 | 0.0 | 1 | 1 | 1020 | 0.05 | 8.7 | 8.05 |
| 28/03/2021 02:01 | 22.1 | 15.9 | 0.0 | 1 | 1 | 1020 | 0.03 | 8.9 | 8.05 |
| 28/03/2021 03:01 | 22.3 | 15.7 | 0.0 | 1 | 2 | 1019 | 0.06 | 9.1 | 8.05 |
| 28/03/2021 04:01 | 22.2 | 15.7 | 0.0 | 1 | 1 | 1019 | 0.01 | 8.8 | 8.05 |
| 28/03/2021 05:01 | 22.5 | 15.8 | 0.0 | 1 | 1 | 1018 | 0.02 | 8.9 | 8.05 |
| 28/03/2021 06:01 | 23.3 | 15.9 | 0.0 | 1 | 2 | 1019 | 0.02 | 9.0 | 8.05 |
| 28/03/2021 07:01 | 23.3 | 15.8 | 0.0 | 1 | 2 | 1019 | 0.04 | 9.3 | 8.05 |
| 28/03/2021 08:01 | 23.0 | 15.7 | 0.0 | 1 | 2 | 1019 | 0.06 | 10.1 | 8.05 |
| 28/03/2021 09:01 | 23.4 | 15.6 | 0.0 | 1 | 2 | 1020 | 0.04 | 10.3 | 8.05 |
| 28/03/2021 10:01 | 23.3 | 15.4 | 0.0 | 1 | 2 | 1020 | 0.02 | 11.5 | 8.05 |
| 28/03/2021 11:01 | 23.2 | 15.0 | 0.0 | 1 | 2 | 1020 | 0.02 | 11.4 | 8.05 |
| 28/03/2021 12:01 | 23.2 | 14.5 | 0.0 | 1 | 2 | 1020 | 0.04 | 11.9 | 8.05 |
| 28/03/2021 13:01 | 24.9 | 14.4 | 0.0 | 1 | 2 | 1021 | 0.02 | 11.5 | 8.05 |
| 28/03/2021 14:01 | 25.5 | 14.0 | 0.0 | 1 | 2 | 1020 | 0.03 | 13.0 | 8.05 |
| 28/03/2021 15:01 | 26.2 | 13.8 | 0.0 | 1 | 2 | 1020 | 0.08 | 13.0 | 8.05 |
| 28/03/2021 16:01 | 26.9 | 13.8 | 0.0 | 1 | 2 | 1020 | 0.03 | 12.5 | 8.05 |
| 28/03/2021 17:01 | 27.9 | 14.2 | 0.0 | 1 | 2 | 1020 | 0.03 | 11.6 | 8.05 |
| 28/03/2021 18:01 | 27.4 | 14.2 | 0.0 | 1 | 2 | 1021 | 0.02 | 10.9 | 8.05 |
| 28/03/2021 19:01 | 27.1 | 14.5 | 0.0 | 1 | 2 | 1021 | 0.03 | 10.3 | 8.05 |
| 28/03/2021 20:01 | 26.3 | 14.7 | 0.0 | 1 | 2 | 1021 | -0.01 | 9.7 | 8.05 |
| 28/03/2021 21:01 | 25.7 | 14.7 | 0.0 | 1 | 2 | 1021 | 0.03 | 9.7 | 8.05 |
| 28/03/2021 22:01 | 25.0 | 14.8 | 0.0 | 1 | 2 | 1021 | 0.02 | 9.6 | 8.05 |
| 28/03/2021 23:01 | 25.2 | 14.8 | 0.1 | 1 | 2 | 1021 | 0.02 | 9.3 | 8.05 |
| 29/03/2021 00:01 | 25.0 | 14.7 | 0.0 | 1 | 1 | 1021 | 0.02 | 9.3 | 8.05 |
| 29/03/2021 01:01 | 24.7 | 14.9 | 0.0 | 1 | 1 | 1021 | 0.01 | 9.1 | 8.05 |
| 29/03/2021 02:01 | 24.4 | 14.9 | 0.0 | 1 | 1 | 1021 | 0.03 | 9.2 | 8.05 |
| 29/03/2021 03:01 | 24.4 | 14.9 | 0.0 | 1 | 1 | 1021 | 0.01 | 8.9 | 8.05 |
| 29/03/2021 04:01 | 24.8 | 14.9 | 0.1 | 1 | 1 | 1021 | 0.00 | 8.8 | 8.05 |
| 29/03/2021 05:01 | 25.0 | 15.1 | 0.1 | 1 | 1 | 1022 | 0.00 | 9.3 | 8.05 |
| 29/03/2021 06:01 | 25.5 | 15.0 | 0.1 | 1 | 1 | 1022 | -0.01 | 9.4 | 8.05 |
| 29/03/2021 07:01 | 25.8 | 14.9 | 0.1 | 1 | 2 | 1023 | 0.00 | 9.6 | 8.05 |
| 29/03/2021 08:01 | 25.8 | 14.9 | 0.1 | 1 | 2 | 1023 | -0.01 | 10.1 | 8.05 |
| 29/03/2021 09:01 | 25.9 | 14.4 | 0.1 | 1 | 2 | 1024 | 0.01 | 11.7 | 8.05 |
| 29/03/2021 10:01 | 26.0 | 13.8 | 0.1 | 0 | 2 | 1024 | 0.01 | 13.1 | 8.05 |
| 29/03/2021 11:01 | 26.2 | 13.0 | 0.1 | 0 | 2 | 1024 | 0.00 | 14.7 | 8.05 |
| 29/03/2021 12:01 | 26.5 | 12.0 | 0.1 | 0 | 2 | 1024 | 0.01 | 16.4 | 8.05 |
| 29/03/2021 13:01 | 26.8 | 11.1 | 0.1 | 0 | 2 | 1024 | 0.02 | 18.0 | 8.05 |
| 29/03/2021 14:01 | 26.9 | 10.3 | 0.0 | 0 | 2 | 1024 | 0.00 | 19.1 | 8.05 |
| 29/03/2021 15:01 | 27.0 | 9.7 | 0.0 | 0 | 2 | 1024 | 0.01 | 19.4 | 8.05 |
| 29/03/2021 16:01 | 26.9 | 9.7 | 0.0 | 0 | 2 | 1024 | 0.01 | 19.1 | 8.05 |
| 29/03/2021 17:01 | 26.8 | 10.1 | 0.1 | 0 | 2 | 1024 | 0.00 | 17.8 | 8.05 |
| 29/03/2021 18:01 | 26.5 | 10.8 | 0.1 | 0 | 2 | 1025 | 0.00 | 15.3 | 8.05 |
| 29/03/2021 19:01 | 26.3 | 11.7 | 0.1 | 0 | 2 | 1025 | 0.00 | 12.6 | 8.05 |
| 29/03/2021 20:01 | 26.1 | 12.3 | 0.1 | 0 | 2 | 1026 | 0.00 | 11.0 | 8.05 |
| 29/03/2021 21:01 | 26.1 | 13.0 | 0.1 | 0 | 2 | 1026 | -0.02 | 9.2 | 8.05 |
| 29/03/2021 22:01 | 26.0 | 13.4 | 0.1 | 0 | 1 | 1026 | 0.01 | 7.4 | 8.05 |
| 29/03/2021 23:01 | 25.9 | 13.5 | 0.2 | 1 | 1 | 1026 | 0.00 | 7.0 | 8.05 |
| 30/03/2021 00:01 | 25.8 | 13.6 | 0.2 | 1 | 1 | 1026 | -0.02 | 4.6 | 8.05 |
| 30/03/2021 01:01 | 25.8 | 13.9 | 0.1 | 1 | 1 | 1027 | 0.01 | 4.5 | 8.05 |
| 30/03/2021 02:01 | 25.8 | 13.9 | 0.1 | 1 | 1 | 1026 | 0.01 | 4.1 | 8.05 |
| 30/03/2021 03:01 | 25.8 | 14.3 | 0.1 | 1 | 1 | 1026 | 0.01 | 2.9 | 8.05 |
| 30/03/2021 04:01 | 25.8 | 14.7 | 0.1 | 1 | 1 | 1026 | 0.01 | 3.0 | 8.05 |
| 30/03/2021 05:01 | 25.8 | 14.8 | 0.1 | 1 | 1 | 1026 | 0.00 | 1.6 | 8.05 |
| 30/03/2021 06:01 | 25.9 | 14.9 | 0.1 | 1 | 1 | 1026 | 0.00 | 3.3 | 8.05 |
| 30/03/2021 07:01 | 25.9 | 15.2 | 0.1 | 1 | 1 | 1026 | 0.01 | 5.3 | 8.05 |
| 30/03/2021 08:01 | 26.0 | 14.4 | 0.1 | 1 | 1 | 1026 | 0.00 | 9.8 | 8.05 |
| 30/03/2021 09:01 | 26.2 | 13.4 | 0.2 | 0 | 2 | 1026 | -0.01 | 13.6 | 8.05 |
| 30/03/2021 10:01 | 26.5 | 13.4 | 0.2 | 0 | 2 | 1026 | 0.01 | 15.8 | 8.05 |
| 30/03/2021 11:01 | 26.8 | 13.2 | 0.2 | 0 | 2 | 1026 | 0.01 | 18.3 | 8.05 |
| 30/03/2021 12:01 | 27.1 | 13.0 | 0.1 | 0 | 3 | 1025 | 0.00 | 20.1 | 8.05 |
| 30/03/2021 13:01 | 27.5 | 12.8 | 0.1 | 0 | 3 | 1025 | 0.01 | 20.7 | 8.05 |
| 30/03/2021 14:01 | 27.7 | 12.6 | 0.1 | 0 | 3 | 1024 | 0.01 | 20.8 | 8.05 |
| 30/03/2021 15:01 | 27.9 | 12.4 | 0.1 | 0 | 3 | 1023 | 0.00 | 21.0 | 8.05 |
| 30/03/2021 16:01 | 28.0 | 12.3 | 0.1 | 0 | 2 | 1023 | 0.01 | 20.6 | 8.05 |
| 30/03/2021 17:01 | 28.1 | 12.4 | 0.1 | 0 | 2 | 1022 | 0.00 | 20.0 | 8.05 |
| 30/03/2021 18:01 | 27.6 | 12.5 | 0.1 | 0 | 2 | 1022 | 0.02 | 17.8 | 8.05 |
| 30/03/2021 19:01 | 27.3 | 12.7 | 0.1 | 0 | 2 | 1022 | 0.01 | 14.9 | 8.05 |
| 30/03/2021 20:01 | 26.9 | 12.9 | 0.1 | 0 | 2 | 1022 | 0.00 | 14.3 | 8.05 |
| 30/03/2021 21:01 | 26.7 | 13.1 | 0.1 | 0 | 2 | 1022 | 0.01 | 10.8 | 8.05 |
| 30/03/2021 22:01 | 26.6 | 13.2 | 0.0 | 0 | 2 | 1022 | 0.01 | 10.2 | 8.05 |
| 30/03/2021 23:01 | 26.4 | 13.3 | 0.0 | 1 | 2 | 1021 | 0.00 | 9.6 | 8.05 |
| 31/03/2021 00:01 | 26.4 | 13.4 | 0.0 | 1 | 2 | 1021 | 0.00 | 8.3 | 8.05 |
| 31/03/2021 01:01 | 26.3 | 13.5 | 0.0 | 1 | 2 | 1020 | 0.01 | 8.1 | 8.05 |
| 31/03/2021 02:01 | 26.4 | 13.5 | 0.0 | 1 | 1 | 1020 | 0.02 | 7.5 | 8.05 |
| 31/03/2021 03:01 | 26.2 | 13.6 | 0.0 | 1 | 1 | 1019 | 0.01 | 7.2 | 8.05 |
| 31/03/2021 04:01 | 26.3 | 13.7 | 0.0 | 1 | 1 | 1019 | 0.01 | 6.9 | 8.05 |
| 31/03/2021 05:01 | 26.3 | 13.7 | 0.0 | 1 | 2 | 1018 | 0.01 | 6.4 | 8.05 |
| 31/03/2021 06:01 | 26.3 | 13.7 | 0.0 | 1 | 2 | 1018 | 0.00 | 6.6 | 8.05 |
| 31/03/2021 07:01 | 26.4 | 13.7 | 0.1 | 1 | 2 | 1018 | 0.00 | 9.0 | 8.05 |
| 31/03/2021 08:01 | 26.4 | 13.5 | 0.1 | 1 | 2 | 1018 | 0.01 | 11.5 | 8.05 |
| 31/03/2021 09:01 | 26.6 | 13.4 | 0.1 | 0 | 2 | 1018 | 0.01 | 15.3 | 8.05 |
| 31/03/2021 10:01 | 26.9 | 13.1 | 0.1 | 0 | 2 | 1018 | 0.01 | 17.6 | 8.05 |
| 31/03/2021 11:01 | 27.1 | 13.1 | 0.1 | 0 | 2 | 1017 | 0.01 | 20.6 | 8.05 |
| 31/03/2021 12:01 | 27.1 | 13.0 | 0.1 | 0 | 2 | 1017 | 0.01 | 21.7 | 8.05 |
| 31/03/2021 13:01 | 27.2 | 13.0 | 0.2 | 0 | 2 | 1017 | 0.00 | 21.1 | 8.05 |
| 31/03/2021 14:01 | 27.2 | 12.9 | 0.1 | 0 | 2 | 1016 | 0.01 | 20.5 | 8.05 |
| 31/03/2021 15:01 | 27.2 | 12.8 | 0.1 | 0 | 2 | 1016 | 0.01 | 20.0 | 8.05 |
| 31/03/2021 16:01 | 27.3 | 12.9 | 0.1 | 0 | 2 | 1016 | 0.01 | 20.4 | 8.05 |
| 31/03/2021 17:01 | 27.3 | 12.8 | 0.1 | 0 | 2 | 1016 | 0.01 | 19.8 | 8.05 |
| 31/03/2021 18:01 | 27.3 | 12.9 | 0.2 | 0 | 2 | 1016 | 0.03 | 18.5 | 8.05 |
| 31/03/2021 19:01 | 27.2 | 12.9 | 0.1 | 0 | 2 | 1016 | 0.00 | 17.2 | 8.05 |
| 31/03/2021 20:01 | 27.1 | 13.0 | 0.2 | 0 | 2 | 1016 | 0.01 | 15.9 | 8.05 |
| 31/03/2021 21:01 | 26.9 | 13.1 | 0.1 | 0 | 2 | 1016 | 0.00 | 14.2 | 8.05 |
| 31/03/2021 22:01 | 26.8 | 13.1 | 0.2 | 0 | 2 | 1017 | 0.00 | 13.6 | 8.05 |
| 31/03/2021 23:01 | 26.7 | 13.2 | 0.2 | 0 | 2 | 1017 | 0.00 | 12.8 | 8.05 |
| 01/04/2021 00:01 | 26.7 | 13.2 | 0.1 | 0 | 2 | 1017 | 0.00 | 12.7 | 8.05 |
| 01/04/2021 01:01 | 26.6 | 13.3 | 0.1 | 0 | 2 | 1017 | -0.01 | 11.3 | 8.05 |
| 01/04/2021 02:01 | 26.6 | 13.3 | 0.1 | 0 | 2 | 1017 | 0.00 | 11.0 | 8.05 |
| 01/04/2021 03:01 | 26.6 | 13.4 | 0.1 | 0 | 2 | 1018 | 0.00 | 11.9 | 8.05 |
| 01/04/2021 04:01 | 26.6 | 13.3 | 0.1 | 0 | 2 | 1019 | 0.00 | 9.9 | 8.05 |
| 01/04/2021 05:01 | 26.6 | 13.4 | 0.2 | 0 | 2 | 1019 | 0.00 | 8.4 | 8.05 |
| 01/04/2021 06:01 | 26.6 | 13.3 | 0.3 | 0 | 2 | 1020 | -0.01 | 7.7 | 8.05 |
| 01/04/2021 07:01 | 26.6 | 13.3 | 0.4 | 0 | 2 | 1021 | 0.00 | 8.0 | 8.05 |
| 01/04/2021 08:01 | 26.6 | 13.2 | 0.5 | 0 | 2 | 1021 | -0.01 | 8.7 | 8.05 |

| Date and Time | $CH_4$ % v/v | $CO_2$ % v/v | $O_2$ % v/v | $H_2S$ ppm/v | CO ppm/v | Atmospheric Pressure mbar | Flow Ltr/hr | Temperature °C | Water Level mbgl |
|---|---|---|---|---|---|---|---|---|---|
| 01/04/2021 09:01 | 26.8 | 13.1 | 0.7 | 0 | 2 | 1022 | -0.01 | 9.6 | 8.05 |
| 01/04/2021 10:01 | 26.9 | 13.0 | 0.6 | 0 | 2 | 1022 | 0.01 | 10.4 | 8.05 |
| 01/04/2021 11:01 | 27.3 | 12.8 | 0.6 | 0 | 2 | 1023 | 0.01 | 11.8 | 8.05 |
| 01/04/2021 12:01 | 27.6 | 12.5 | 0.5 | 0 | 2 | 1023 | 0.00 | 13.2 | 8.05 |
| 01/04/2021 13:01 | 28.0 | 12.4 | 0.4 | 0 | 2 | 1023 | 0.00 | 13.7 | 8.05 |
| 01/04/2021 14:01 | 28.4 | 12.2 | 0.4 | 0 | 2 | 1023 | 0.02 | 13.9 | 8.05 |
| 01/04/2021 15:01 | 28.5 | 12.1 | 0.3 | 0 | 2 | 1023 | 0.01 | 11.4 | 8.05 |
| 01/04/2021 16:01 | 28.6 | 12.0 | 0.3 | 0 | 2 | 1023 | 0.00 | 10.8 | 8.05 |
| 01/04/2021 17:01 | 28.4 | 12.1 | 0.3 | 0 | 2 | 1023 | 0.00 | 9.9 | 8.05 |
| 01/04/2021 18:01 | 28.1 | 12.3 | 0.4 | 0 | 2 | 1024 | 0.00 | 8.6 | 8.05 |
| 01/04/2021 19:01 | 27.8 | 12.4 | 0.4 | 0 | 2 | 1024 | -0.01 | 7.2 | 8.05 |
| 01/04/2021 20:01 | 27.6 | 12.6 | 0.5 | 0 | 2 | 1025 | -0.01 | 6.3 | 8.05 |
| 01/04/2021 21:01 | 27.3 | 12.7 | 0.5 | 0 | 2 | 1025 | 0.00 | 5.5 | 8.05 |
| 01/04/2021 22:01 | 27.2 | 12.9 | 0.5 | 0 | 2 | 1026 | 0.00 | 5.7 | 8.05 |
| 01/04/2021 23:01 | 27.1 | 13.0 | 0.5 | 0 | 2 | 1026 | -0.01 | 5.6 | 8.05 |
| 02/04/2021 00:01 | 27.0 | 13.1 | 0.5 | 0 | 2 | 1026 | 0.01 | 5.1 | 8.05 |
| 02/04/2021 01:01 | 26.8 | 13.2 | 0.4 | 1 | 2 | 1026 | 0.02 | 5.1 | 8.05 |
| 02/04/2021 02:01 | 26.7 | 13.2 | 0.3 | 1 | 1 | 1026 | 0.01 | 5.3 | 8.05 |
| 02/04/2021 03:01 | 26.6 | 13.3 | 0.2 | 1 | 1 | 1026 | 0.02 | 5.1 | 8.05 |
| 02/04/2021 04:01 | 26.6 | 13.3 | 0.2 | 1 | 1 | 1025 | -0.01 | 5.2 | 8.05 |
| 02/04/2021 05:01 | 26.6 | 13.4 | 0.2 | 1 | 1 | 1025 | 0.00 | 5.2 | 8.05 |
| 02/04/2021 06:01 | 26.6 | 13.5 | 0.2 | 1 | 1 | 1026 | -0.03 | 5.3 | 8.05 |
| 02/04/2021 07:01 | 26.5 | 13.5 | 0.3 | 1 | 1 | 1026 | 0.00 | 5.6 | 8.05 |
| 02/04/2021 08:01 | 26.7 | 13.4 | 0.4 | 1 | 1 | 1027 | 0.01 | 5.9 | 8.05 |
| 02/04/2021 09:01 | 26.8 | 13.2 | 0.5 | 1 | 2 | 1027 | 0.00 | 6.3 | 8.05 |
| 02/04/2021 10:01 | 27.0 | 13.0 | 0.4 | 0 | 2 | 1028 | 0.00 | 6.8 | 8.05 |
| 02/04/2021 11:01 | 27.3 | 12.9 | 0.4 | 0 | 2 | 1028 | -0.02 | 7.4 | 8.05 |
| 02/04/2021 12:01 | 27.7 | 12.7 | 0.3 | 0 | 2 | 1028 | 0.01 | 8.1 | 8.05 |
| 02/04/2021 13:01 | 28.2 | 12.5 | 0.3 | 0 | 2 | 1027 | 0.02 | 9.8 | 8.05 |
| 02/04/2021 14:01 | 28.5 | 12.3 | 0.2 | 0 | 2 | 1027 | 0.02 | 9.3 | 8.05 |
| 02/04/2021 15:01 | 28.8 | 12.1 | 0.2 | 0 | 2 | 1027 | 0.01 | 9.8 | 8.05 |
| 02/04/2021 16:01 | 29.0 | 12.1 | 0.2 | 0 | 3 | 1027 | 0.01 | 7.9 | 8.05 |
| 02/04/2021 17:01 | 28.7 | 12.1 | 0.2 | 0 | 2 | 1027 | 0.02 | 7.3 | 8.05 |
| 02/04/2021 18:01 | 28.4 | 12.3 | 0.3 | 0 | 2 | 1028 | -0.01 | 7.2 | 8.05 |
| 02/04/2021 19:01 | 28.0 | 12.5 | 0.4 | 0 | 2 | 1028 | 0.00 | 7.2 | 8.05 |
| 02/04/2021 20:01 | 27.7 | 12.8 | 0.3 | 0 | 2 | 1028 | 0.01 | 6.9 | 8.05 |
| 02/04/2021 21:01 | 27.6 | 13.0 | 0.3 | 0 | 2 | 1028 | 0.00 | 7.0 | 8.05 |
| 02/04/2021 22:01 | 27.2 | 13.1 | 0.2 | 0 | 2 | 1028 | -0.02 | 6.9 | 8.05 |
| 02/04/2021 23:01 | 27.3 | 13.1 | 0.2 | 1 | 2 | 1028 | 0.01 | 5.3 | 8.05 |
| 03/04/2021 00:01 | 27.3 | 13.2 | 0.2 | 1 | 2 | 1028 | 0.02 | 5.7 | 8.05 |
| 03/04/2021 01:01 | 27.1 | 13.2 | 0.2 | 1 | 2 | 1028 | 0.02 | 4.9 | 8.05 |
| 03/04/2021 02:01 | 27.1 | 13.3 | 0.2 | 1 | 2 | 1028 | 0.02 | 5.5 | 8.05 |
| 03/04/2021 03:01 | 27.1 | 13.4 | 0.1 | 1 | 2 | 1028 | 0.03 | 5.8 | 8.05 |
| 03/04/2021 04:01 | 27.0 | 13.4 | 0.1 | 1 | 2 | 1028 | 0.02 | 5.8 | 8.05 |
| 03/04/2021 05:01 | 27.0 | 13.4 | 0.1 | 1 | 2 | 1028 | -0.02 | 5.5 | 8.05 |
| 03/04/2021 06:01 | 27.0 | 13.3 | 0.2 | 1 | 2 | 1029 | 0.00 | 5.6 | 8.05 |
| 03/04/2021 07:01 | 27.1 | 13.4 | 0.2 | 1 | 2 | 1029 | 0.01 | 5.9 | 8.05 |
| 03/04/2021 08:01 | 27.1 | 13.3 | 0.2 | 1 | 2 | 1029 | 0.00 | 6.3 | 8.05 |
| 03/04/2021 09:01 | 27.4 | 13.2 | 0.3 | 1 | 2 | 1030 | 0.01 | 6.7 | 8.05 |
| 03/04/2021 10:01 | 27.5 | 13.1 | 0.3 | 0 | 2 | 1030 | -0.01 | 7.2 | 8.05 |
| 03/04/2021 11:01 | 27.8 | 12.9 | 0.3 | 0 | 2 | 1030 | 0.01 | 7.7 | 8.05 |
| 03/04/2021 12:01 | 28.1 | 12.7 | 0.3 | 0 | 2 | 1030 | 0.00 | 8.0 | 8.05 |
| 03/04/2021 13:01 | 28.4 | 12.5 | 0.2 | 0 | 2 | 1029 | 0.01 | 8.3 | 8.05 |
| 03/04/2021 14:01 | 28.9 | 12.3 | 0.2 | 0 | 3 | 1029 | -0.01 | 8.6 | 8.05 |
| 03/04/2021 15:01 | 29.2 | 12.1 | 0.2 | 0 | 3 | 1029 | 0.00 | 8.6 | 8.05 |
| 03/04/2021 16:01 | 29.4 | 12.0 | 0.2 | 0 | 3 | 1028 | 0.01 | 8.8 | 8.05 |
| 03/04/2021 17:01 | 29.3 | 12.0 | 0.2 | 0 | 3 | 1028 | 0.01 | 8.5 | 8.05 |
| 03/04/2021 18:01 | 29.0 | 12.3 | 0.2 | 1 | 3 | 1028 | 0.01 | 8.0 | 8.05 |
| 03/04/2021 19:01 | 28.7 | 12.5 | 0.2 | 1 | 2 | 1028 | 0.01 | 7.3 | 8.05 |
| 03/04/2021 20:01 | 28.3 | 12.7 | 0.2 | 1 | 2 | 1028 | 0.00 | 6.9 | 8.05 |
| 03/04/2021 21:01 | 28.0 | 12.8 | 0.2 | 1 | 2 | 1028 | 0.00 | 6.6 | 8.05 |
| 03/04/2021 22:01 | 27.8 | 13.0 | 0.2 | 1 | 2 | 1028 | 0.01 | 6.1 | 8.05 |
| 03/04/2021 23:01 | 27.7 | 13.1 | 0.2 | 1 | 2 | 1028 | 0.02 | 5.9 | 8.05 |
| 04/04/2021 00:01 | 27.4 | 13.2 | 0.2 | 1 | 2 | 1028 | 0.01 | 5.3 | 8.05 |
| 04/04/2021 01:01 | 27.4 | 13.3 | 0.2 | 1 | 2 | 1027 | 0.02 | 5.1 | 8.05 |
| 04/04/2021 02:01 | 27.2 | 13.3 | 0.3 | 1 | 2 | 1027 | 0.00 | 5.1 | 8.04 |
| 04/04/2021 03:01 | 27.2 | 13.4 | 0.3 | 1 | 2 | 1027 | 0.02 | 4.8 | 8.04 |
| 04/04/2021 04:01 | 27.2 | 13.5 | 0.3 | 1 | 2 | 1027 | 0.02 | 4.8 | 8.05 |
| 04/04/2021 05:01 | 27.1 | 13.5 | 0.3 | 1 | 2 | 1026 | 0.01 | 4.6 | 8.05 |
| 04/04/2021 06:01 | 27.1 | 13.5 | 0.3 | 1 | 2 | 1026 | 0.02 | 4.5 | 8.05 |
| 04/04/2021 07:01 | 27.1 | 13.5 | 0.4 | 1 | 2 | 1026 | 0.00 | 4.8 | 8.04 |
| 04/04/2021 08:01 | 27.3 | 13.4 | 0.5 | 1 | 2 | 1025 | 0.02 | 4.9 | 8.04 |
| 04/04/2021 09:01 | 27.8 | 13.0 | 0.6 | 1 | 2 | 1025 | 0.01 | 5.4 | 8.04 |
| 04/04/2021 10:01 | 28.4 | 12.6 | 0.7 | 1 | 2 | 1025 | 0.03 | 6.6 | 8.04 |
| 04/04/2021 11:01 | 29.1 | 12.3 | 0.8 | 1 | 3 | 1024 | 0.00 | 8.2 | 8.04 |
| 04/04/2021 12:01 | 29.4 | 12.0 | 0.8 | 1 | 3 | 1023 | 0.02 | 10.1 | 8.04 |
| 04/04/2021 13:01 | 29.8 | 11.7 | 0.8 | 1 | 3 | 1022 | 0.02 | 11.6 | 8.04 |
| 04/04/2021 14:01 | 29.8 | 11.6 | 0.8 | 1 | 3 | 1020 | 0.01 | 13.1 | 8.05 |
| 04/04/2021 15:01 | 29.8 | 11.5 | 0.7 | 1 | 3 | 1019 | 0.05 | 14.0 | 8.05 |
| 04/04/2021 16:01 | 30.0 | 11.4 | 0.7 | 1 | 3 | 1018 | 0.03 | 14.0 | 8.05 |
| 04/04/2021 17:01 | 30.0 | 11.4 | 0.7 | 1 | 3 | 1018 | 0.00 | 14.3 | 8.05 |
| 04/04/2021 18:01 | 29.7 | 11.6 | 0.6 | 2 | 3 | 1017 | 0.04 | 13.5 | 8.05 |
| 04/04/2021 19:01 | 29.3 | 11.9 | 0.5 | 2 | 3 | 1016 | 0.02 | 12.0 | 8.05 |
| 04/04/2021 20:01 | 29.0 | 12.2 | 0.5 | 2 | 3 | 1015 | 0.00 | 10.7 | 8.05 |
| 04/04/2021 21:01 | 28.7 | 12.4 | 0.5 | 2 | 2 | 1015 | 0.03 | 9.8 | 8.04 |
| 04/04/2021 22:01 | 28.5 | 12.6 | 0.5 | 2 | 2 | 1014 | 0.00 | 10.1 | 8.04 |
| 04/04/2021 23:01 | 28.3 | 12.7 | 0.5 | 2 | 2 | 1013 | 0.03 | 10.3 | 8.04 |
| 05/04/2021 00:01 | 28.3 | 12.8 | 0.5 | 2 | 2 | 1012 | 0.03 | 9.5 | 8.04 |
| 05/04/2021 01:01 | 28.2 | 12.8 | 0.5 | 2 | 2 | 1012 | 0.03 | 8.9 | 8.04 |
| 05/04/2021 02:01 | 28.3 | 12.9 | 0.5 | 2 | 2 | 1011 | 0.05 | 8.9 | 8.04 |
| 05/04/2021 03:01 | 28.4 | 12.9 | 0.6 | 2 | 3 | 1011 | 0.03 | 8.4 | 8.05 |
| 05/04/2021 04:01 | 28.3 | 12.9 | 0.6 | 2 | 3 | 1010 | 0.02 | 7.7 | 8.04 |
| 05/04/2021 05:01 | 28.4 | 12.9 | 0.6 | 1 | 3 | 1010 | 0.04 | 8.1 | 8.04 |
| 05/04/2021 06:01 | 28.4 | 12.9 | 0.6 | 1 | 3 | 1011 | 0.04 | 6.9 | 8.05 |
| 05/04/2021 07:01 | 28.4 | 12.9 | 0.6 | 1 | 3 | 1012 | 0.02 | 6.0 | 8.04 |
| 05/04/2021 08:01 | 28.6 | 12.9 | 0.7 | 1 | 3 | 1013 | 0.03 | 3.6 | 8.04 |
| 05/04/2021 09:01 | 28.7 | 12.8 | 0.8 | 1 | 3 | 1014 | 0.04 | 3.9 | 8.04 |
| 05/04/2021 10:01 | 29.1 | 12.6 | 0.9 | 1 | 3 | 1015 | 0.02 | 3.4 | 8.04 |
| 05/04/2021 11:01 | 29.4 | 12.3 | 0.9 | 1 | 3 | 1015 | 0.02 | 4.2 | 8.04 |
| 05/04/2021 12:01 | 29.5 | 12.3 | 0.9 | 1 | 3 | 1016 | 0.01 | 4.3 | 8.04 |
| 05/04/2021 13:01 | 29.6 | 12.4 | 0.9 | 1 | 3 | 1016 | 0.03 | 5.3 | 8.04 |
| 05/04/2021 14:01 | 29.4 | 12.3 | 0.8 | 1 | 3 | 1016 | 0.04 | 5.5 | 8.04 |
| 05/04/2021 15:01 | 29.6 | 12.2 | 0.9 | 2 | 3 | 1016 | 0.00 | 5.9 | 8.05 |
| 05/04/2021 16:01 | 29.8 | 12.0 | 1.0 | 2 | 4 | 1016 | 0.02 | 6.1 | 8.04 |
| 05/04/2021 17:01 | 29.7 | 11.9 | 1.0 | 2 | 4 | 1017 | 0.02 | 5.7 | 8.05 |
| 05/04/2021 18:01 | 29.6 | 12.0 | 0.9 | 2 | 3 | 1017 | 0.03 | 5.1 | 8.04 |
| 05/04/2021 19:01 | 29.4 | 12.3 | 0.8 | 2 | 3 | 1018 | 0.01 | 3.3 | 8.05 |
| 05/04/2021 20:01 | 29.2 | 12.5 | 0.7 | 2 | 3 | 1018 | 0.01 | 1.4 | 8.04 |
| 05/04/2021 21:01 | 29.0 | 12.7 | 0.7 | 2 | 3 | 1018 | 0.02 | 2.1 | 8.04 |
| 05/04/2021 22:01 | 28.8 | 12.8 | 0.7 | 2 | 2 | 1018 | 0.03 | 2.8 | 8.04 |
| 05/04/2021 23:01 | 28.6 | 12.9 | 0.7 | 2 | 2 | 1018 | 0.04 | 2.7 | 8.04 |
| 06/04/2021 00:01 | 28.6 | 13.0 | 0.7 | 2 | 2 | 1018 | 0.03 | 2.2 | 8.04 |
| 06/04/2021 01:01 | 28.5 | 13.1 | 0.7 | 2 | 2 | 1018 | 0.02 | 1.5 | 8.04 |
| 06/04/2021 02:01 | 28.3 | 13.2 | 0.7 | 2 | 2 | 1018 | 0.04 | 1.2 | 8.04 |

| Date and Time | $CH_4$ % v/v | $CO_2$ % v/v | $O_2$ % v/v | $H_2S$ ppm/v | CO ppm/v | Atmospheric Pressure mbar | Flow Ltr/hr | Temperature °C | Water Level mbgl |
|---|---|---|---|---|---|---|---|---|---|
| 06/04/2021 03:01 | 28.3 | 13.3 | 0.7 | 2 | 2 | 1017 | 0.03 | 0.6 | 8.04 |
| 06/04/2021 04:01 | 28.3 | 13.3 | 0.7 | 2 | 2 | 1017 | 0.03 | 0.4 | 8.04 |
| 06/04/2021 05:01 | 28.3 | 13.3 | 0.7 | 2 | 2 | 1017 | 0.03 | 0.0 | 8.04 |
| 06/04/2021 06:01 | 28.3 | 13.4 | 0.8 | 2 | 2 | 1017 | 0.02 | 0.0 | 8.04 |
| 06/04/2021 07:01 | 28.3 | 13.3 | 0.8 | 2 | 2 | 1017 | 0.02 | 1.4 | 8.04 |
| 06/04/2021 08:01 | 28.6 | 13.0 | 0.9 | 2 | 3 | 1017 | 0.06 | 2.8 | 8.04 |
| 06/04/2021 09:01 | 28.8 | 12.6 | 1.1 | 2 | 3 | 1017 | 0.02 | 3.3 | 8.04 |
| 06/04/2021 10:01 | 29.1 | 12.2 | 1.2 | 2 | 3 | 1017 | 0.05 | 4.5 | 8.04 |
| 06/04/2021 11:01 | 29.0 | 11.9 | 1.2 | 2 | 4 | 1016 | 0.05 | 5.6 | 8.04 |
| 06/04/2021 12:01 | 28.8 | 11.5 | 1.3 | 3 | 4 | 1015 | 0.06 | 5.6 | 8.04 |
| 06/04/2021 13:01 | 28.2 | 11.2 | 1.3 | 3 | 5 | 1015 | 0.06 | 6.0 | 8.04 |
| 06/04/2021 14:01 | 27.4 | 11.1 | 1.2 | 3 | 5 | 1015 | 0.04 | 5.9 | 8.04 |
| 06/04/2021 15:01 | 27.2 | 11.1 | 1.1 | 3 | 5 | 1015 | 0.06 | 4.6 | 8.04 |
| 06/04/2021 16:01 | 26.8 | 11.0 | 1.0 | 3 | 5 | 1015 | 0.06 | 5.2 | 8.04 |
| 06/04/2021 17:01 | 26.5 | 11.0 | 1.0 | 3 | 4 | 1015 | -0.04 | 4.2 | 8.04 |
| 06/04/2021 18:01 | 26.5 | 11.1 | 0.9 | 3 | 4 | 1015 | 0.04 | 4.3 | 8.04 |
| 06/04/2021 19:01 | 26.4 | 11.1 | 0.8 | 2 | 4 | 1016 | 0.03 | 2.4 | 8.04 |
| 06/04/2021 20:01 | 26.5 | 11.2 | 0.7 | 2 | 3 | 1017 | 0.00 | 1.3 | 8.04 |
| 06/04/2021 21:01 | 26.6 | 11.3 | 0.7 | 2 | 3 | 1017 | 0.03 | -0.2 | 8.04 |
| 06/04/2021 22:01 | 26.6 | 11.4 | 0.7 | 2 | 3 | 1018 | 0.03 | 0.1 | 8.04 |
| 06/04/2021 23:01 | 26.7 | 11.5 | 0.7 | 2 | 3 | 1018 | 0.02 | -0.3 | 8.04 |
| 07/04/2021 00:01 | 26.8 | 11.5 | 0.7 | 2 | 2 | 1019 | 0.03 | -0.7 | 8.04 |
| 07/04/2021 01:01 | 26.8 | 11.6 | 0.7 | 2 | 2 | 1019 | 0.03 | -1.1 | 8.04 |
| 07/04/2021 02:01 | 26.7 | 11.6 | 0.7 | 2 | 2 | 1018 | 0.03 | -1.1 | 8.04 |
| 07/04/2021 03:01 | 26.7 | 11.7 | 0.8 | 2 | 2 | 1019 | 0.03 | -1.1 | 8.04 |
| 07/04/2021 04:01 | 26.8 | 11.7 | 0.8 | 2 | 2 | 1019 | 0.04 | -1.1 | 8.04 |
| 07/04/2021 05:01 | 26.8 | 11.7 | 0.8 | 2 | 2 | 1019 | 0.03 | -1.2 | 8.04 |
| 07/04/2021 06:01 | 26.8 | 11.7 | 0.8 | 2 | 2 | 1020 | 0.03 | -1.0 | 8.04 |
| 07/04/2021 07:01 | 26.6 | 11.7 | 0.8 | 2 | 2 | 1020 | 0.01 | 0.6 | 8.04 |
| 07/04/2021 08:01 | 26.5 | 11.4 | 0.9 | 2 | 2 | 1020 | 0.03 | 2.6 | 8.05 |
| 07/04/2021 09:01 | 26.0 | 11.1 | 1.0 | 2 | 3 | 1020 | 0.02 | 4.2 | 8.04 |
| 07/04/2021 10:01 | 25.3 | 11.0 | 1.2 | 2 | 3 | 1020 | 0.03 | 4.5 | 8.04 |
| 07/04/2021 11:01 | 0.0 | 0.0 | 1.2 | 2 | 3 | 1020 | 0.03 | 4.8 | 8.04 |
| 07/04/2021 12:01 | 0.0 | 0.0 | 1.2 | 2 | 3 | 1020 | 0.03 | 4.9 | 8.04 |
| 07/04/2021 13:01 | 0.0 | 0.0 | 1.2 | 2 | 4 | 1020 | 0.03 | 5.4 | 8.04 |
| 07/04/2021 14:01 | 0.0 | 0.0 | 1.1 | 2 | 4 | 1020 | 0.03 | 5.7 | 8.04 |
| 07/04/2021 15:01 | 0.0 | 0.0 | 1.1 | 2 | 4 | 1020 | 0.01 | 6.2 | 8.04 |
| 07/04/2021 16:01 | 0.0 | 0.0 | 1.0 | 2 | 4 | 1020 | 0.03 | 6.3 | 8.04 |
| 07/04/2021 17:01 | 0.0 | 0.0 | 1.0 | 2 | 3 | 1020 | 0.03 | 5.9 | 8.04 |
| 07/04/2021 18:01 | 0.0 | 0.0 | 0.9 | 3 | 3 | 1020 | 0.03 | 5.6 | 8.04 |
| 07/04/2021 19:01 | 0.0 | 0.0 | 0.9 | 2 | 3 | 1021 | 0.02 | 5.1 | 8.04 |
| 07/04/2021 20:01 | 0.0 | 0.0 | 0.9 | 2 | 3 | 1021 | 0.03 | 5.1 | 8.04 |
| 07/04/2021 21:01 | 0.0 | 0.0 | 0.8 | 2 | 3 | 1021 | 0.03 | 5.0 | 8.04 |
| 07/04/2021 22:01 | 0.0 | 0.0 | 0.8 | 2 | 3 | 1021 | 0.01 | 4.8 | 8.04 |
| 07/04/2021 23:01 | 0.0 | 0.0 | 0.8 | 2 | 3 | 1021 | 0.03 | 4.8 | 8.04 |
| 08/04/2021 00:01 | 0.0 | 0.0 | 0.8 | 2 | 2 | 1022 | 0.03 | 4.8 | 8.04 |
| 08/04/2021 01:01 | 0.0 | 0.0 | 0.8 | 2 | 2 | 1021 | 0.02 | 4.6 | 8.04 |
| 08/04/2021 02:01 | 0.0 | 0.0 | 0.8 | 2 | 2 | 1021 | 0.04 | 4.4 | 8.04 |
| 08/04/2021 03:01 | 0.0 | 0.0 | 0.8 | 2 | 2 | 1021 | 0.03 | 3.6 | 8.04 |
| 08/04/2021 04:01 | 0.0 | 0.0 | 0.8 | 2 | 2 | 1020 | 0.03 | 3.8 | 8.04 |
| 08/04/2021 05:01 | 0.0 | 0.0 | 0.8 | 2 | 2 | 1021 | 0.00 | 3.4 | 8.04 |
| 08/04/2021 06:01 | 0.0 | 0.0 | 0.8 | 2 | 2 | 1020 | 0.02 | 4.0 | 8.04 |
| 08/04/2021 07:01 | 0.0 | 0.0 | 0.8 | 2 | 2 | 1020 | 0.05 | 4.7 | 8.04 |
| 08/04/2021 08:01 | 0.0 | 0.0 | 0.9 | 2 | 2 | 1020 | 0.03 | 5.9 | 8.04 |
| 08/04/2021 09:01 | 0.0 | 0.0 | 1.0 | 2 | 3 | 1020 | 0.03 | 7.4 | 8.04 |
| 08/04/2021 10:01 | 0.0 | 0.0 | 1.1 | 2 | 3 | 1020 | 0.04 | 8.9 | 8.04 |
| 08/04/2021 11:01 | 0.0 | 0.0 | 1.2 | 2 | 3 | 1019 | 0.04 | 8.9 | 8.04 |
| 08/04/2021 12:01 | 0.0 | 0.0 | 1.3 | 2 | 4 | 1018 | 0.07 | 10.6 | 8.04 |
| 08/04/2021 13:01 | 0.0 | 0.0 | 1.3 | 2 | 4 | 1018 | 0.06 | 11.5 | 8.04 |
| 08/04/2021 14:01 | 0.0 | 0.0 | 1.4 | 2 | 5 | 1017 | 0.06 | 12.0 | 8.04 |
| 08/04/2021 15:01 | 0.0 | 0.0 | 1.4 | 2 | 5 | 1016 | 0.04 | 12.0 | 8.04 |
| 08/04/2021 16:01 | 0.0 | 0.0 | 1.4 | 2 | 5 | 1016 | 0.03 | 11.1 | 8.04 |
| 08/04/2021 17:01 | 0.0 | 0.0 | 1.2 | 2 | 5 | 1015 | 0.05 | 10.7 | 8.04 |
| 08/04/2021 18:01 | 0.0 | 0.0 | 1.0 | 2 | 5 | 1015 | 0.04 | 10.1 | 8.04 |
| 08/04/2021 19:01 | 0.0 | 0.0 | 0.8 | 3 | 4 | 1015 | 0.03 | 9.0 | 8.04 |
| 08/04/2021 20:01 | 0.0 | 0.0 | 0.8 | 3 | 4 | 1015 | 0.04 | 8.0 | 8.04 |
| 08/04/2021 21:01 | 0.0 | 0.0 | 0.7 | 3 | 4 | 1014 | 0.04 | 7.3 | 8.04 |
| 08/04/2021 22:01 | 0.0 | 0.0 | 0.7 | 3 | 4 | 1014 | 0.03 | 7.0 | 8.04 |
| 08/04/2021 23:01 | 0.0 | 0.0 | 0.7 | 3 | 3 | 1013 | 0.03 | 6.9 | 8.04 |
| 09/04/2021 00:01 | 0.0 | 0.0 | 0.7 | 3 | 3 | 1013 | 0.03 | 6.6 | 8.04 |
| 09/04/2021 01:01 | 0.0 | 0.0 | 0.7 | 3 | 3 | 1012 | 0.03 | 5.6 | 8.04 |
| 09/04/2021 02:01 | 0.0 | 0.0 | 0.7 | 3 | 3 | 1012 | 0.04 | 5.6 | 8.04 |
| 09/04/2021 03:01 | 0.0 | 0.0 | 0.7 | 3 | 3 | 1011 | 0.03 | 5.2 | 8.04 |
| 09/04/2021 04:01 | 0.0 | 0.0 | 0.7 | 3 | 3 | 1011 | 0.03 | 5.1 | 8.04 |
| 09/04/2021 05:01 | 0.0 | 0.0 | 0.7 | 3 | 3 | 1011 | 0.03 | 5.6 | 8.04 |
| 09/04/2021 06:01 | 0.0 | 0.0 | 0.7 | 3 | 3 | 1011 | 0.02 | 5.2 | 8.04 |
| 09/04/2021 07:01 | 0.0 | 0.0 | 0.7 | 3 | 3 | 1011 | 0.03 | 6.6 | 8.04 |
| 09/04/2021 08:01 | 0.0 | 0.0 | 0.9 | 2 | 3 | 1011 | 0.03 | 8.6 | 8.04 |
| 09/04/2021 09:01 | 0.0 | 0.0 | 1.0 | 2 | 3 | 1010 | 0.03 | 9.4 | 8.04 |
| 09/04/2021 10:01 | 0.0 | 0.0 | 1.2 | 2 | 4 | 1010 | 0.02 | 10.9 | 8.04 |
| 09/04/2021 11:01 | 0.0 | 0.0 | 1.2 | 2 | 4 | 1010 | 0.03 | 10.9 | 8.04 |
| 09/04/2021 12:01 | 0.0 | 0.0 | 1.2 | 2 | 4 | 1009 | 0.03 | 12.8 | 8.04 |
| 09/04/2021 13:01 | 0.0 | 0.0 | 1.2 | 2 | 4 | 1009 | 0.03 | 12.3 | 8.04 |
| 09/04/2021 14:01 | 0.0 | 0.0 | 1.1 | 2 | 4 | 1009 | 0.03 | 13.3 | 8.04 |
| 09/04/2021 15:01 | 0.0 | 0.0 | 1.1 | 2 | 4 | 1008 | 0.03 | 13.4 | 8.04 |
| 09/04/2021 16:01 | 0.0 | 0.0 | 1.0 | 2 | 4 | 1008 | 0.03 | 12.7 | 8.04 |
| 09/04/2021 17:01 | 0.0 | 0.0 | 1.0 | 2 | 4 | 1008 | 0.03 | 10.5 | 8.04 |
| 09/04/2021 18:01 | 0.0 | 0.0 | 0.9 | 2 | 3 | 1008 | 0.03 | 9.5 | 8.04 |
| 09/04/2021 19:01 | 0.0 | 0.0 | 0.9 | 2 | 3 | 1009 | 0.03 | 9.0 | 8.04 |
| 09/04/2021 20:01 | 0.0 | 0.0 | 0.8 | 2 | 3 | 1010 | 0.03 | 8.4 | 8.04 |
| 09/04/2021 21:01 | 0.0 | 0.0 | 0.8 | 2 | 3 | 1010 | 0.02 | 7.7 | 8.04 |
| 09/04/2021 22:01 | 0.0 | 0.0 | 0.8 | 2 | 3 | 1010 | 0.02 | 7.2 | 8.04 |
| 09/04/2021 23:01 | 0.0 | 0.0 | 0.8 | 2 | 3 | 1010 | 0.02 | 6.7 | 8.04 |
| 10/04/2021 00:01 | 0.0 | 0.0 | 0.7 | 2 | 3 | 1010 | 0.03 | 6.5 | 8.04 |
| 10/04/2021 01:01 | 0.0 | 0.0 | 0.7 | 2 | 3 | 1010 | 0.04 | 6.2 | 8.04 |
| 10/04/2021 02:01 | 0.0 | 0.0 | 0.7 | 2 | 3 | 1010 | 0.03 | 5.7 | 8.04 |
| 10/04/2021 03:01 | 0.0 | 0.0 | 0.7 | 2 | 3 | 1010 | 0.03 | 5.5 | 8.04 |
| 10/04/2021 04:01 | 0.0 | 0.0 | 0.7 | 2 | 3 | 1010 | 0.03 | 5.2 | 8.04 |
| 10/04/2021 05:01 | 0.0 | 0.0 | 0.7 | 2 | 3 | 1010 | 0.03 | 4.8 | 8.04 |
| 10/04/2021 06:01 | 0.0 | 0.0 | 0.7 | 2 | 3 | 1010 | 0.03 | 4.9 | 8.04 |
| 10/04/2021 07:01 | 0.0 | 0.0 | 0.8 | 2 | 3 | 1010 | 0.03 | 5.5 | 8.04 |
| 10/04/2021 08:01 | 0.0 | 0.0 | 0.8 | 2 | 3 | 1010 | 0.02 | 6.4 | 8.04 |
| 10/04/2021 09:01 | 0.0 | 0.0 | 0.8 | 2 | 3 | 1010 | 0.03 | 6.9 | 8.04 |
| 10/04/2021 10:01 | 0.0 | 0.0 | 0.9 | 2 | 3 | 1010 | 0.02 | 7.1 | 8.04 |
| 10/04/2021 11:01 | 0.0 | 0.0 | 0.9 | 2 | 3 | 1010 | 0.03 | 7.0 | 8.04 |
| 10/04/2021 12:01 | 0.0 | 0.0 | 0.9 | 2 | 3 | 1010 | 0.03 | 7.0 | 8.04 |
| 10/04/2021 13:01 | 0.0 | 0.0 | 0.9 | 2 | 3 | 1010 | 0.03 | 7.1 | 8.04 |
| 10/04/2021 14:01 | 0.0 | 0.0 | 0.9 | 2 | 3 | 1010 | 0.03 | 6.0 | 8.04 |
| 10/04/2021 15:01 | 0.0 | 0.0 | 0.9 | 3 | 3 | 1009 | 0.02 | 6.3 | 8.04 |
| 10/04/2021 16:01 | 0.0 | 0.0 | 0.9 | 3 | 3 | 1009 | 0.02 | 6.1 | 8.04 |
| 10/04/2021 17:01 | 0.0 | 0.0 | 0.8 | 3 | 3 | 1009 | 0.03 | 6.5 | 8.04 |
| 10/04/2021 18:01 | 0.0 | 0.0 | 0.8 | 2 | 3 | 1009 | 0.02 | 6.1 | 8.04 |
| 10/04/2021 19:01 | 0.0 | 0.0 | 0.8 | 2 | 3 | 1010 | 0.01 | 5.4 | 8.04 |
| 10/04/2021 20:01 | 0.0 | 0.0 | 0.8 | 2 | 3 | 1010 | 0.02 | 4.2 | 8.04 |

| Date and Time | $CH_4$ % v/v | $CO_2$ % v/v | $O_2$ % v/v | $H_2S$ ppm/v | CO ppm/v | Atmospheric Pressure mbar | Flow Ltr/hr | Temperature °C | Water Level mbgl |
|---|---|---|---|---|---|---|---|---|---|
| 10/04/2021 21:01 | 0.0 | 0.0 | 0.7 | 2 | 3 | 1011 | 0.02 | 4.6 | 8.04 |
| 10/04/2021 22:01 | 0.0 | 0.0 | 0.7 | 2 | 2 | 1011 | 0.01 | 3.9 | 8.04 |
| 10/04/2021 23:01 | 0.0 | 0.0 | 0.7 | 2 | 2 | 1011 | 0.01 | 2.3 | 8.04 |
| 11/04/2021 00:01 | 0.0 | 0.0 | 0.7 | 2 | 2 | 1011 | 0.01 | 1.9 | 8.04 |
| 11/04/2021 01:01 | 0.0 | 0.0 | 0.7 | 2 | 2 | 1011 | 0.01 | 1.3 | 8.04 |
| 11/04/2021 02:01 | 0.0 | 0.0 | 0.7 | 2 | 2 | 1011 | 0.01 | 0.9 | 8.04 |
| 11/04/2021 03:01 | 0.0 | 0.0 | 0.7 | 2 | 2 | 1012 | 0.00 | 0.7 | 8.04 |
| 11/04/2021 04:01 | 0.0 | 0.0 | 0.7 | 2 | 2 | 1012 | 0.01 | 0.6 | 8.04 |
| 11/04/2021 05:01 | 0.0 | 0.0 | 0.7 | 1 | 2 | 1012 | 0.00 | -0.4 | 8.04 |
| 11/04/2021 06:01 | 0.0 | 0.0 | 0.7 | 1 | 2 | 1013 | -0.01 | 0.0 | 8.04 |
| 11/04/2021 07:01 | 0.0 | 0.0 | 0.7 | 1 | 2 | 1014 | 0.01 | 3.1 | 8.04 |
| 11/04/2021 08:01 | 0.0 | 0.0 | 0.8 | 1 | 2 | 1014 | -0.01 | 4.3 | 8.04 |
| 11/04/2021 09:01 | 0.0 | 0.0 | 0.9 | 1 | 2 | 1015 | 0.01 | 5.3 | 8.04 |
| 11/04/2021 10:01 | 0.0 | 0.0 | 1.0 | 1 | 2 | 1015 | 0.01 | 6.2 | 8.04 |
| 11/04/2021 11:01 | 0.0 | 0.0 | 1.1 | 0 | 2 | 1015 | 0.01 | 7.2 | 8.04 |
| 11/04/2021 12:01 | 0.0 | 0.0 | 1.1 | 0 | 3 | 1016 | 0.00 | 7.2 | 8.04 |
| 11/04/2021 13:01 | 0.0 | 0.0 | 1.1 | 0 | 3 | 1016 | 0.00 | 8.0 | 8.04 |
| 11/04/2021 14:01 | 0.0 | 0.0 | 1.1 | 0 | 3 | 1016 | 0.00 | 8.0 | 8.04 |
| 11/04/2021 15:01 | 0.0 | 0.0 | 1.0 | 0 | 3 | 1017 | -0.02 | 8.3 | 8.04 |
| 11/04/2021 16:01 | 0.0 | 0.0 | 1.0 | 0 | 3 | 1017 | 0.03 | 7.8 | 8.04 |
| 11/04/2021 17:01 | 0.0 | 0.0 | 0.9 | 0 | 2 | 1018 | 0.00 | 6.3 | 8.04 |
| 11/04/2021 18:01 | 0.0 | 0.0 | 0.8 | 1 | 2 | 1019 | 0.01 | 3.9 | 8.04 |
| 11/04/2021 19:01 | 0.0 | 0.0 | 0.7 | 1 | 2 | 1020 | 0.00 | 3.7 | 8.04 |
| 11/04/2021 20:01 | 0.0 | 0.0 | 0.7 | 1 | 2 | 1021 | -0.01 | 0.8 | 8.04 |
| 11/04/2021 21:01 | 0.0 | 0.0 | 0.6 | 1 | 2 | 1021 | 0.00 | 1.4 | 8.04 |
| 11/04/2021 22:01 | 0.0 | 0.0 | 0.6 | 1 | 2 | 1022 | 0.00 | 0.6 | 8.04 |
| 11/04/2021 23:01 | 0.0 | 0.0 | 0.6 | 1 | 2 | 1022 | 0.01 | 1.4 | 8.04 |
| 12/04/2021 00:01 | 0.0 | 0.0 | 0.5 | 1 | 2 | 1022 | 0.01 | 0.5 | 8.04 |
| 12/04/2021 01:01 | 0.0 | 0.0 | 0.5 | 1 | 2 | 1023 | 0.02 | 0.8 | 8.04 |
| 12/04/2021 02:01 | 0.0 | 0.0 | 0.5 | 1 | 1 | 1023 | 0.01 | 1.0 | 8.04 |
| 12/04/2021 03:01 | 0.0 | 0.0 | 0.5 | 1 | 1 | 1023 | 0.03 | 0.4 | 8.04 |
| 12/04/2021 04:01 | 0.0 | 0.0 | 0.5 | 1 | 1 | 1023 | 0.02 | 0.1 | 8.04 |
| 12/04/2021 05:01 | 0.0 | 0.0 | 0.5 | 1 | 1 | 1023 | 0.00 | 0.4 | 8.04 |
| 12/04/2021 06:01 | 0.0 | 0.0 | 0.6 | 1 | 1 | 1024 | 0.01 | 0.6 | 8.04 |
| 12/04/2021 07:01 | 0.0 | 0.0 | 0.6 | 1 | 1 | 1024 | 0.03 | 1.9 | 8.04 |
| 12/04/2021 08:01 | 0.0 | 0.0 | 0.7 | 1 | 2 | 1025 | 0.01 | 3.0 | 8.04 |
| 12/04/2021 09:01 | 0.0 | 0.0 | 0.8 | 1 | 2 | 1025 | 0.00 | 3.7 | 8.04 |
| 12/04/2021 10:01 | 0.0 | 0.0 | 0.9 | 1 | 2 | 1026 | 0.01 | 4.4 | 8.04 |
| 12/04/2021 11:01 | 0.0 | 0.0 | 1.0 | 1 | 2 | 1026 | 0.01 | 5.0 | 8.04 |
| 12/04/2021 12:01 | 0.0 | 0.0 | 1.0 | 0 | 2 | 1026 | -0.01 | 6.3 | 8.04 |
| 12/04/2021 13:01 | 0.0 | 0.0 | 1.1 | 0 | 2 | 1026 | 0.01 | 7.9 | 8.04 |
| 12/04/2021 14:01 | 0.0 | 0.0 | 1.1 | 0 | 2 | 1026 | 0.02 | 7.0 | 8.04 |
| 12/04/2021 15:01 | 0.0 | 0.0 | 1.0 | 0 | 2 | 1026 | 0.00 | 7.7 | 8.04 |
| 12/04/2021 16:01 | 0.0 | 0.0 | 1.0 | 0 | 2 | 1026 | -0.01 | 9.2 | 8.04 |
| 12/04/2021 17:01 | 0.0 | 0.0 | 0.9 | 0 | 2 | 1026 | 0.00 | 8.4 | 8.04 |
| 12/04/2021 18:01 | 0.0 | 0.0 | 0.8 | 0 | 2 | 1027 | 0.00 | 7.0 | 8.04 |
| 12/04/2021 19:01 | 0.0 | 0.0 | 0.7 | 0 | 2 | 1027 | 0.00 | 6.4 | 8.04 |
| 12/04/2021 20:01 | 0.0 | 0.0 | 0.7 | 0 | 2 | 1028 | 0.00 | 4.3 | 8.04 |
| 12/04/2021 21:01 | 0.0 | 0.0 | 0.6 | 1 | 2 | 1028 | 0.00 | 2.5 | 8.04 |
| 12/04/2021 22:01 | 0.0 | 0.0 | 0.6 | 1 | 2 | 1029 | 0.00 | 1.6 | 8.04 |
| 12/04/2021 23:01 | 0.0 | 0.0 | 0.5 | 1 | 2 | 1029 | 0.00 | 0.3 | 8.04 |
| 13/04/2021 00:01 | 0.0 | 0.0 | 0.5 | 1 | 2 | 1029 | 0.01 | -0.1 | 8.04 |
| 13/04/2021 01:01 | 0.0 | 0.0 | 0.5 | 1 | 1 | 1029 | 0.01 | -1.1 | 8.04 |
| 13/04/2021 02:01 | 0.0 | 0.0 | 0.5 | 1 | 1 | 1029 | 0.00 | -1.4 | 8.04 |
| 13/04/2021 03:01 | 0.0 | 0.0 | 0.5 | 1 | 1 | 1029 | 0.01 | -2.3 | 8.04 |
| 13/04/2021 04:01 | 0.0 | 0.0 | 0.5 | 1 | 1 | 1029 | 0.02 | -2.2 | 8.04 |
| 13/04/2021 05:01 | 0.0 | 0.0 | 0.5 | 1 | 1 | 1029 | 0.01 | -2.4 | 8.04 |
| 13/04/2021 06:01 | 0.0 | 0.0 | 0.6 | 1 | 1 | 1030 | 0.00 | -1.8 | 8.04 |
| 13/04/2021 07:01 | 0.0 | 0.0 | 0.6 | 1 | 1 | 1030 | 0.01 | 2.2 | 8.04 |
| 13/04/2021 08:01 | 0.0 | 0.0 | 0.8 | 1 | 2 | 1030 | 0.01 | 5.7 | 8.04 |
| 13/04/2021 09:01 | 0.0 | 0.0 | 1.0 | 1 | 2 | 1030 | 0.00 | 8.7 | 8.04 |
| 13/04/2021 10:01 | 0.0 | 0.0 | 1.1 | 0 | 2 | 1030 | 0.00 | 9.8 | 8.04 |
| 13/04/2021 11:01 | 0.0 | 0.0 | 1.2 | 0 | 2 | 1030 | 0.02 | 10.4 | 8.04 |
| 13/04/2021 12:01 | 0.0 | 0.0 | 1.0 | 0 | 2 | 1029 | 0.02 | 10.2 | 8.04 |
| 13/04/2021 13:01 | 0.0 | 0.0 | 0.9 | 0 | 2 | 1029 | 0.02 | 10.7 | 8.04 |
| 13/04/2021 14:01 | 0.0 | 0.0 | 0.9 | 1 | 2 | 1029 | 0.03 | 10.8 | 8.04 |
| 13/04/2021 15:01 | 0.0 | 0.0 | 0.9 | 1 | 2 | 1028 | 0.03 | 10.8 | 8.04 |
| 13/04/2021 16:01 | 0.0 | 0.0 | 0.9 | 1 | 2 | 1028 | 0.03 | 9.3 | 8.04 |
| 13/04/2021 17:01 | 0.0 | 0.0 | 0.9 | 1 | 2 | 1028 | 0.01 | 8.9 | 8.04 |
| 13/04/2021 18:01 | 0.0 | 0.0 | 0.8 | 1 | 2 | 1029 | 0.01 | 9.0 | 8.04 |
| 13/04/2021 19:01 | 0.0 | 0.0 | 0.7 | 1 | 2 | 1029 | 0.01 | 8.1 | 8.04 |
| 13/04/2021 20:01 | 0.0 | 0.0 | 0.6 | 1 | 2 | 1029 | 0.01 | 6.0 | 8.04 |
| 13/04/2021 21:01 | 0.0 | 0.0 | 0.6 | 1 | 2 | 1030 | 0.01 | 4.3 | 8.04 |
| 13/04/2021 22:01 | 0.0 | 0.0 | 0.6 | 1 | 2 | 1030 | 0.00 | 3.9 | 8.04 |
| 13/04/2021 23:01 | 0.0 | 0.0 | 0.5 | 1 | 2 | 1029 | 0.00 | 1.9 | 8.04 |
| 14/04/2021 00:01 | 0.0 | 0.0 | 0.5 | 1 | 1 | 1029 | 0.01 | 2.3 | 8.04 |
| 14/04/2021 01:01 | 0.0 | 0.0 | 0.5 | 1 | 1 | 1029 | 0.00 | 2.9 | 8.04 |
| 14/04/2021 02:01 | 0.0 | 0.0 | 0.5 | 1 | 1 | 1029 | 0.01 | 2.5 | 8.04 |
| 14/04/2021 03:01 | 0.0 | 0.0 | 0.5 | 1 | 1 | 1029 | 0.02 | 2.7 | 8.04 |
| 14/04/2021 04:01 | 0.0 | 0.0 | 0.5 | 1 | 1 | 1029 | 0.01 | 3.0 | 8.04 |
| 14/04/2021 05:01 | 0.0 | 0.0 | 0.6 | 1 | 1 | 1029 | 0.00 | 3.3 | 8.04 |
| 14/04/2021 06:01 | 0.0 | 0.0 | 0.6 | 1 | 1 | 1030 | 0.01 | 2.9 | 8.04 |
| 14/04/2021 07:01 | 0.0 | 0.0 | 0.6 | 1 | 1 | 1030 | 0.01 | 4.6 | 8.04 |
| 14/04/2021 08:01 | 0.0 | 0.0 | 0.7 | 1 | 2 | 1030 | 0.01 | 7.2 | 8.04 |
| 14/04/2021 09:01 | 0.0 | 0.0 | 0.8 | 1 | 2 | 1030 | 0.01 | 8.3 | 8.04 |
| 14/04/2021 10:01 | 0.0 | 0.0 | 1.0 | 0 | 2 | 1030 | 0.01 | 9.6 | 8.04 |
| 14/04/2021 11:01 | 0.0 | 0.0 | 1.1 | 0 | 2 | 1030 | 0.02 | 10.1 | 8.04 |
| 14/04/2021 12:01 | 0.0 | 0.0 | 1.1 | 0 | 2 | 1030 | 0.03 | 10.7 | 8.04 |
| 14/04/2021 13:01 | 0.0 | 0.0 | 1.0 | 0 | 2 | 1030 | 0.01 | 8.6 | 8.04 |
| 14/04/2021 14:01 | 0.0 | 0.0 | 0.9 | 0 | 2 | 1030 | 0.01 | 8.0 | 8.04 |
| 14/04/2021 15:01 | 0.0 | 0.0 | 0.9 | 1 | 2 | 1030 | 0.01 | 7.9 | 8.04 |
| 14/04/2021 16:01 | 0.0 | 0.0 | 0.8 | 1 | 2 | 1029 | 0.01 | 8.0 | 8.04 |
| 14/04/2021 17:01 | 0.0 | 0.0 | 0.8 | 1 | 2 | 1029 | 0.00 | 7.7 | 8.04 |
| 14/04/2021 18:01 | 0.0 | 0.0 | 0.7 | 1 | 2 | 1029 | 0.01 | 6.3 | 8.04 |
| 14/04/2021 19:01 | 0.0 | 0.0 | 0.7 | 1 | 2 | 1030 | -0.02 | 5.8 | 8.04 |
| 14/04/2021 20:01 | 0.0 | 0.0 | 0.6 | 1 | 2 | 1030 | 0.01 | 5.4 | 8.04 |
| 14/04/2021 21:01 | 0.0 | 0.0 | 0.6 | 1 | 2 | 1030 | 0.00 | 5.4 | 8.04 |
| 14/04/2021 22:01 | 0.0 | 0.0 | 0.5 | 1 | 2 | 1030 | 0.01 | 4.1 | 8.04 |
| 14/04/2021 23:01 | 0.0 | 0.0 | 0.5 | 1 | 1 | 1030 | 0.00 | 2.6 | 8.04 |
| 15/04/2021 00:01 | 0.0 | 0.0 | 0.5 | 1 | 1 | 1030 | 0.00 | 1.8 | 8.04 |
| 15/04/2021 01:01 | 0.0 | 0.0 | 0.5 | 1 | 1 | 1030 | 0.00 | 1.2 | 8.04 |
| 15/04/2021 02:01 | 0.0 | 0.0 | 0.5 | 1 | 1 | 1030 | 0.00 | 0.5 | 8.04 |
| 15/04/2021 03:01 | 0.0 | 0.0 | 0.6 | 1 | 1 | 1030 | 0.02 | 0.7 | 8.04 |
| 15/04/2021 04:01 | 0.0 | 0.0 | 0.6 | 1 | 1 | 1030 | 0.01 | 0.0 | 8.04 |
| 15/04/2021 05:01 | 0.0 | 0.0 | 0.6 | 1 | 1 | 1030 | 0.01 | 0.2 | 8.04 |
| 15/04/2021 06:01 | 0.0 | 0.0 | 0.6 | 1 | 1 | 1031 | 0.00 | 1.2 | 8.04 |
| 15/04/2021 07:01 | 0.0 | 0.0 | 0.6 | 1 | 1 | 1031 | 0.01 | 3.6 | 8.04 |
| 15/04/2021 08:01 | 0.0 | 0.0 | 0.7 | 1 | 2 | 1031 | 0.01 | 6.1 | 8.04 |
| 15/04/2021 09:01 | 0.0 | 0.0 | 0.9 | 1 | 2 | 1031 | 0.01 | 6.9 | 8.04 |
| 15/04/2021 10:01 | 0.0 | 0.0 | 1.0 | 0 | 2 | 1031 | -0.01 | 7.4 | 8.04 |
| 15/04/2021 11:01 | 0.0 | 0.0 | 1.1 | 0 | 2 | 1030 | 0.02 | 8.5 | 8.04 |
| 15/04/2021 12:01 | 0.0 | 0.0 | 1.1 | 0 | 3 | 1030 | 0.02 | 7.7 | 8.04 |
| 15/04/2021 13:01 | 0.0 | 0.0 | 1.0 | 0 | 3 | 1030 | 0.02 | 9.0 | 8.04 |
| 15/04/2021 14:01 | 0.0 | 0.0 | 0.9 | 0 | 3 | 1029 | 0.03 | 7.5 | 8.04 |

| Date and Time | $CH_4$ % v/v | $CO_2$ % v/v | $O_2$ % v/v | $H_2S$ ppm/v | CO ppm/v | Atmospheric Pressure mbar | Flow Ltr/hr | Temperature °C | Water Level mbgl |
|---|---|---|---|---|---|---|---|---|---|
| 15/04/2021 15:01 | 0.0 | 0.0 | 0.8 | 0 | 3 | 1029 | 0.02 | 7.5 | 8.04 |
| 15/04/2021 16:01 | 0.0 | 0.0 | 0.8 | 0 | 2 | 1029 | 0.02 | 7.5 | 8.04 |
| 15/04/2021 17:01 | 0.0 | 0.0 | 0.7 | 1 | 2 | 1029 | 0.01 | 7.6 | 8.04 |
| 15/04/2021 18:01 | 0.0 | 0.0 | 0.7 | 1 | 2 | 1029 | 0.02 | 6.6 | 8.04 |
| 15/04/2021 19:01 | 0.0 | 0.0 | 0.6 | 1 | 2 | 1029 | 0.00 | 6.3 | 8.04 |
| 15/04/2021 20:01 | 0.0 | 0.0 | 0.6 | 1 | 2 | 1029 | 0.01 | 4.6 | 8.04 |
| 15/04/2021 21:01 | 0.0 | 0.0 | 0.6 | 1 | 2 | 1029 | 0.02 | 3.5 | 8.04 |
| 15/04/2021 22:01 | 0.0 | 0.0 | 0.5 | 1 | 2 | 1029 | 0.01 | 2.6 | 8.04 |
| 15/04/2021 23:01 | 0.0 | 0.0 | 0.5 | 1 | 2 | 1029 | 0.01 | 1.2 | 8.04 |
| 16/04/2021 00:01 | 0.0 | 0.0 | 0.5 | 1 | 2 | 1029 | 0.01 | 0.8 | 8.04 |
| 16/04/2021 01:01 | 0.0 | 0.0 | 0.5 | 1 | 1 | 1028 | 0.01 | 0.5 | 8.04 |
| 16/04/2021 02:01 | 0.0 | 0.0 | 0.5 | 1 | 1 | 1028 | 0.01 | 0.0 | 8.04 |
| 16/04/2021 03:01 | 0.0 | 0.0 | 0.5 | 1 | 1 | 1028 | 0.01 | 0.2 | 8.04 |
| 16/04/2021 04:01 | 0.0 | 0.0 | 0.5 | 1 | 1 | 1028 | 0.01 | -1.2 | 8.04 |
| 16/04/2021 05:01 | 0.0 | 0.0 | 0.5 | 1 | 1 | 1028 | 0.00 | -1.0 | 8.04 |
| 16/04/2021 06:01 | 0.0 | 0.0 | 0.5 | 1 | 1 | 1029 | 0.02 | -1.5 | 8.04 |
| 16/04/2021 07:01 | 0.0 | 0.0 | 0.6 | 1 | 1 | 1029 | 0.01 | 2.7 | 8.04 |
| 16/04/2021 08:01 | 0.0 | 0.0 | 0.7 | 1 | 2 | 1029 | 0.00 | 5.4 | 8.04 |
| 16/04/2021 09:01 | 0.0 | 0.0 | 0.8 | 1 | 2 | 1029 | 0.01 | 6.0 | 8.04 |
| 16/04/2021 10:01 | 0.0 | 0.0 | 1.0 | 0 | 2 | 1029 | 0.01 | 7.8 | 8.04 |
| 16/04/2021 11:01 | 0.0 | 0.0 | 1.1 | 0 | 2 | 1028 | 0.01 | 9.6 | 8.04 |
| 16/04/2021 12:01 | 0.0 | 0.0 | 1.0 | 0 | 2 | 1028 | 0.01 | 9.3 | 8.04 |
| 16/04/2021 13:01 | 0.0 | 0.0 | 1.0 | 0 | 3 | 1028 | 0.02 | 10.3 | 8.04 |
| 16/04/2021 14:01 | 0.0 | 0.0 | 1.0 | 0 | 3 | 1027 | 0.02 | 9.4 | 8.04 |
| 16/04/2021 15:01 | 0.0 | 0.0 | 0.9 | 0 | 3 | 1027 | 0.03 | 9.6 | 8.04 |
| 16/04/2021 16:01 | 0.0 | 0.0 | 0.9 | 1 | 3 | 1027 | 0.02 | 9.7 | 8.04 |
| 16/04/2021 17:01 | 0.0 | 0.0 | 0.8 | 1 | 2 | 1027 | 0.00 | 8.9 | 8.04 |
| 16/04/2021 18:01 | 0.0 | 0.0 | 0.7 | 1 | 2 | 1027 | 0.00 | 7.9 | 8.04 |
| 16/04/2021 19:01 | 0.0 | 0.0 | 0.6 | 1 | 2 | 1027 | 0.00 | 5.8 | 8.04 |
| 16/04/2021 20:01 | 0.0 | 0.0 | 0.6 | 1 | 2 | 1027 | 0.00 | 5.2 | 8.04 |
| 16/04/2021 21:01 | 0.0 | 0.0 | 0.5 | 1 | 2 | 1028 | 0.01 | 4.1 | 8.04 |
| 16/04/2021 22:01 | 0.0 | 0.0 | 0.5 | 1 | 2 | 1028 | 0.01 | 2.5 | 8.04 |
| 16/04/2021 23:01 | 0.0 | 0.0 | 0.5 | 1 | 2 | 1028 | 0.03 | 2.1 | 8.04 |
| 17/04/2021 00:01 | 0.0 | 0.0 | 0.5 | 1 | 2 | 1028 | 0.02 | 0.9 | 8.04 |
| 17/04/2021 01:01 | 0.0 | 0.0 | 0.4 | 1 | 1 | 1027 | 0.02 | 0.7 | 8.04 |
| 17/04/2021 02:01 | 0.0 | 0.0 | 0.4 | 1 | 1 | 1027 | 0.01 | 0.0 | 8.04 |
| 17/04/2021 03:01 | 0.0 | 0.0 | 0.5 | 1 | 1 | 1027 | 0.00 | -0.7 | 8.04 |
| 17/04/2021 04:01 | 0.0 | 0.0 | 0.5 | 1 | 1 | 1027 | 0.01 | -0.4 | 8.04 |
| 17/04/2021 05:01 | 0.0 | 0.0 | 0.5 | 1 | 1 | 1027 | 0.01 | -1.2 | 8.04 |
| 17/04/2021 06:01 | 0.0 | 0.0 | 0.5 | 1 | 1 | 1027 | 0.01 | -0.4 | 8.04 |
| 17/04/2021 07:01 | 0.0 | 0.0 | 0.5 | 1 | 1 | 1027 | 0.00 | 3.3 | 8.04 |
| 17/04/2021 08:01 | 0.0 | 0.0 | 0.7 | 1 | 2 | 1027 | 0.01 | 6.4 | 8.04 |
| 17/04/2021 09:01 | 0.0 | 0.0 | 0.8 | 1 | 2 | 1027 | 0.02 | 8.0 | 8.04 |
| 17/04/2021 10:01 | 0.0 | 0.0 | 1.0 | 0 | 2 | 1027 | 0.00 | 9.6 | 8.04 |
| 17/04/2021 11:01 | 0.0 | 0.0 | 1.1 | 0 | 3 | 1026 | 0.03 | 10.3 | 8.04 |
| 17/04/2021 12:01 | 0.0 | 0.0 | 1.1 | 0 | 3 | 1026 | 0.01 | 11.1 | 8.04 |
| 17/04/2021 13:01 | 0.0 | 0.0 | 1.1 | 0 | 3 | 1025 | 0.01 | 11.1 | 8.04 |
| 17/04/2021 14:01 | 0.0 | 0.0 | 1.1 | 0 | 3 | 1025 | 0.02 | 11.0 | 8.04 |
| 17/04/2021 15:01 | 0.0 | 0.0 | 1.0 | 0 | 3 | 1024 | 0.02 | 11.1 | 8.04 |
| 17/04/2021 16:01 | 0.0 | 0.0 | 1.0 | 1 | 3 | 1024 | 0.02 | 10.1 | 8.04 |
| 17/04/2021 17:01 | 0.0 | 0.0 | 0.8 | 1 | 3 | 1024 | 0.01 | 9.5 | 8.04 |
| 17/04/2021 18:01 | 0.0 | 0.0 | 0.7 | 1 | 3 | 1024 | 0.01 | 7.6 | 8.04 |
| 17/04/2021 19:01 | 0.0 | 0.0 | 0.6 | 1 | 2 | 1024 | 0.01 | 6.8 | 8.04 |
| 17/04/2021 20:01 | 0.0 | 0.0 | 0.4 | 0 | 0 | 1024 | 0.01 | 5.5 | 8.04 |
| 17/04/2021 21:01 | 0.0 | 0.0 | 0.4 | 0 | 0 | 1024 | 0.03 | 4.1 | 8.04 |
| 17/04/2021 22:01 | 0.0 | 0.0 | 0.4 | 0 | 0 | 1024 | 0.02 | 3.2 | 8.04 |
| 17/04/2021 23:01 | 0.0 | 0.0 | 0.4 | 0 | 0 | 1024 | 0.01 | 2.3 | 8.04 |
| 18/04/2021 00:01 | 0.0 | 0.0 | 0.4 | 0 | 0 | 1024 | 0.03 | 2.5 | 8.04 |
| 18/04/2021 01:01 | 0.0 | 0.0 | 0.4 | 0 | 0 | 1023 | 0.02 | 2.6 | 8.04 |
| 18/04/2021 02:01 | 0.0 | 0.0 | 0.4 | 0 | 0 | 1023 | 0.02 | 1.0 | 8.04 |
| 18/04/2021 03:01 | 0.0 | 0.0 | 0.4 | 0 | 0 | 1023 | 0.01 | 0.6 | 8.04 |
| 18/04/2021 04:01 | 0.0 | 0.0 | 0.4 | 0 | 0 | 1023 | 0.02 | 0.3 | 8.04 |
| 18/04/2021 05:01 | 0.0 | 0.0 | 0.4 | 0 | 0 | 1023 | 0.01 | -0.8 | 8.04 |

# GGS Time Series Data

Experts in Continuous Monitoring

| | | | |
|---|---|---|---|
| **Project Ref:** | GGS2440 | | |
| **Location:** | Broadmarsh Open Space, Harts Fa | | |
| **Borehole ref:** | RO105 | | |
| **Sentinel ID:** | #44 | Days of monitoring: | 25 |
| **Start Date:** | 23/03/2021 15:01 | Monitoring Frequency (mins): | 60 |
| **End Date:** | 18/04/2021 06:01 | Total samples taken: | 616 |

**Minimum, Maximum and Range Table**

| | $CH_4$ | $CO_2$ | $O_2$ | $H_2S$ | CO | Atmospheric Pressure | Flow | Temperature | Water Level |
|---|---|---|---|---|---|---|---|---|---|
| **Minimum** | 0.0 | 0.0 | 0.0 | 0 | 0 | 1006 | -0.25 | -2.4 | 4.92 |
| **Maximum** | 54.8 | 15.1 | 20.3 | 2 | 5 | 1031 | 0.16 | 21.7 | 5.65 |
| **Range** | 54.8 | 15.1 | 20.3 | 2 | 5 | 25 | 0.42 | 24.1 | 0.73 |

| Date and Time | $CH_4$ % v/v | $CO_2$ % v/v | $O_2$ % v/v | $H_2S$ ppm/v | CO ppm/v | Atmospheric Pressure mbar | Flow Ltr/hr | Temperature °C | Water Level mbgl |
|---|---|---|---|---|---|---|---|---|---|
| 23/03/2021 15:01 | 12.3 | 12.4 | 0.8 | 1 | 3 | 1020 | -0.02 | 12.2 | 4.97 |
| 23/03/2021 16:01 | 13.5 | 12.3 | 0.7 | 1 | 3 | 1020 | -0.01 | 12.5 | 4.97 |
| 23/03/2021 17:01 | 14.5 | 12.0 | 0.7 | 1 | 3 | 1019 | -0.01 | 12.0 | 4.96 |
| 23/03/2021 18:01 | 15.6 | 12.1 | 0.7 | 1 | 3 | 1019 | -0.01 | 10.6 | 4.95 |
| 23/03/2021 19:01 | 16.0 | 11.9 | 0.6 | 1 | 3 | 1020 | -0.01 | 8.9 | 4.94 |
| 23/03/2021 20:01 | 16.3 | 11.9 | 0.6 | 1 | 3 | 1020 | -0.03 | 7.6 | 4.93 |
| 23/03/2021 21:01 | 16.4 | 11.8 | 0.6 | 1 | 2 | 1020 | -0.02 | 6.8 | 4.93 |
| 23/03/2021 22:01 | 16.6 | 11.9 | 0.5 | 1 | 2 | 1020 | -0.02 | 6.2 | 4.94 |
| 23/03/2021 23:01 | 15.9 | 11.8 | 0.5 | 1 | 2 | 1020 | -0.03 | 5.2 | 4.95 |
| 24/03/2021 00:01 | 15.5 | 11.9 | 0.5 | 1 | 2 | 1020 | -0.01 | 4.7 | 4.96 |
| 24/03/2021 01:01 | 15.0 | 12.1 | 0.4 | 1 | 2 | 1019 | -0.01 | 4.3 | 4.97 |
| 24/03/2021 02:01 | 14.5 | 12.2 | 0.3 | 1 | 2 | 1019 | -0.01 | 3.6 | 4.98 |
| 24/03/2021 03:01 | 14.2 | 12.3 | 0.3 | 1 | 2 | 1019 | 0.00 | 3.1 | 4.98 |
| 24/03/2021 04:01 | 13.5 | 12.1 | 0.2 | 1 | 2 | 1018 | -0.02 | 2.1 | 4.99 |
| 24/03/2021 05:01 | 12.7 | 12.2 | 0.2 | 1 | 2 | 1018 | 0.00 | 1.5 | 4.99 |
| 24/03/2021 06:01 | 12.0 | 12.2 | 0.2 | 1 | 2 | 1018 | 0.00 | 0.6 | 4.98 |
| 24/03/2021 07:01 | 11.2 | 12.2 | 0.2 | 1 | 1 | 1018 | -0.01 | 1.6 | 4.97 |
| 24/03/2021 08:01 | 10.5 | 12.3 | 0.2 | 1 | 1 | 1019 | 0.00 | 4.6 | 4.96 |
| 24/03/2021 09:01 | 9.8 | 12.3 | 0.1 | 1 | 1 | 1019 | 0.00 | 8.5 | 4.96 |
| 24/03/2021 10:01 | 9.3 | 12.5 | 0.1 | 1 | 1 | 1019 | -0.01 | 10.0 | 4.96 |
| 24/03/2021 11:01 | 8.8 | 12.7 | 0.1 | 1 | 1 | 1018 | 0.00 | 11.1 | 4.98 |
| 24/03/2021 12:01 | 8.3 | 12.8 | 0.1 | 1 | 1 | 1018 | -0.01 | 12.3 | 4.99 |
| 24/03/2021 13:01 | 8.5 | 12.5 | 0.1 | 1 | 1 | 1018 | 0.00 | 12.6 | 5.00 |
| 24/03/2021 14:01 | 9.2 | 12.4 | 0.2 | 1 | 1 | 1017 | -0.02 | 12.0 | 5.01 |
| 24/03/2021 15:01 | 10.6 | 12.4 | 0.2 | 1 | 1 | 1017 | -0.02 | 12.2 | 5.02 |
| 24/03/2021 16:01 | 11.7 | 12.2 | 0.4 | 1 | 1 | 1017 | 0.01 | 12.2 | 5.02 |
| 24/03/2021 17:01 | 13.1 | 12.3 | 0.4 | 1 | 2 | 1017 | -0.02 | 12.2 | 5.02 |
| 24/03/2021 18:01 | 14.3 | 12.2 | 0.6 | 1 | 2 | 1017 | -0.02 | 11.8 | 5.01 |
| 24/03/2021 19:01 | 14.7 | 11.9 | 0.7 | 1 | 2 | 1017 | -0.02 | 10.3 | 4.99 |
| 24/03/2021 20:01 | 15.0 | 11.7 | 0.7 | 1 | 2 | 1018 | -0.02 | 9.4 | 4.97 |
| 24/03/2021 21:01 | 14.7 | 11.7 | 0.9 | 1 | 2 | 1018 | -0.01 | 8.6 | 4.95 |
| 24/03/2021 22:01 | 14.7 | 11.8 | 0.8 | 1 | 2 | 1017 | -0.04 | 8.9 | 4.95 |
| 24/03/2021 23:01 | 14.9 | 11.8 | 0.7 | 1 | 2 | 1017 | -0.03 | 9.0 | 4.96 |
| 25/03/2021 00:01 | 14.7 | 11.9 | 0.7 | 1 | 2 | 1017 | -0.02 | 8.2 | 4.98 |
| 25/03/2021 01:01 | 14.2 | 11.9 | 0.6 | 1 | 2 | 1017 | -0.01 | 7.3 | 5.00 |
| 25/03/2021 02:01 | 14.2 | 11.9 | 0.5 | 1 | 2 | 1017 | -0.01 | 6.8 | 5.02 |
| 25/03/2021 03:01 | 14.2 | 12.2 | 0.5 | 1 | 1 | 1017 | -0.02 | 5.8 | 5.03 |
| 25/03/2021 04:01 | 13.9 | 12.1 | 0.5 | 1 | 2 | 1017 | -0.02 | 4.6 | 5.04 |
| 25/03/2021 05:01 | 13.7 | 12.1 | 0.5 | 1 | 1 | 1017 | -0.02 | 4.3 | 5.04 |
| 25/03/2021 06:01 | 13.4 | 11.9 | 0.5 | 1 | 1 | 1017 | -0.01 | 3.4 | 5.04 |
| 25/03/2021 07:01 | 13.6 | 12.2 | 0.4 | 1 | 1 | 1017 | 0.00 | 5.1 | 5.04 |
| 25/03/2021 08:01 | 13.5 | 12.1 | 0.5 | 1 | 1 | 1017 | -0.02 | 7.2 | 5.01 |
| 25/03/2021 09:01 | 13.3 | 11.9 | 0.5 | 1 | 1 | 1017 | -0.02 | 9.3 | 4.99 |
| 25/03/2021 10:01 | 13.0 | 11.8 | 0.6 | 1 | 1 | 1017 | -0.01 | 11.2 | 4.97 |
| 25/03/2021 11:01 | 12.7 | 11.8 | 0.9 | 1 | 2 | 1017 | -0.01 | 11.9 | 4.97 |
| 25/03/2021 12:01 | 12.2 | 11.5 | 1.4 | 1 | 2 | 1016 | -0.02 | 12.2 | 4.98 |
| 25/03/2021 13:01 | 12.0 | 11.4 | 1.6 | 1 | 2 | 1016 | -0.02 | 12.2 | 5.01 |
| 25/03/2021 14:01 | 11.1 | 10.5 | 2.7 | 1 | 2 | 1015 | -0.02 | 10.8 | 5.03 |
| 25/03/2021 15:01 | 10.5 | 9.8 | 3.7 | 1 | 3 | 1015 | -0.03 | 10.4 | 5.04 |
| 25/03/2021 16:01 | 9.8 | 9.0 | 5.0 | 1 | 3 | 1014 | -0.02 | 11.1 | 5.05 |
| 25/03/2021 17:01 | 9.6 | 8.6 | 5.3 | 1 | 3 | 1014 | -0.03 | 10.7 | 5.05 |
| 25/03/2021 18:01 | 10.0 | 9.1 | 4.8 | 1 | 3 | 1014 | -0.04 | 10.4 | 5.05 |
| 25/03/2021 19:01 | 9.9 | 9.3 | 4.6 | 1 | 3 | 1014 | -0.04 | 9.5 | 5.04 |
| 25/03/2021 20:01 | 9.3 | 8.9 | 5.0 | 1 | 2 | 1014 | -0.03 | 9.2 | 5.01 |
| 25/03/2021 21:01 | 9.4 | 9.0 | 5.0 | 1 | 2 | 1014 | -0.02 | 9.0 | 4.97 |
| 25/03/2021 22:01 | 9.6 | 9.2 | 4.7 | 1 | 2 | 1013 | -0.01 | 9.8 | 4.94 |
| 25/03/2021 23:01 | 9.6 | 9.2 | 4.6 | 1 | 2 | 1013 | -0.05 | 9.6 | 4.94 |
| 26/03/2021 00:01 | 9.7 | 9.6 | 4.0 | 1 | 2 | 1012 | -0.01 | 9.6 | 4.95 |
| 26/03/2021 01:01 | 9.4 | 9.8 | 3.8 | 1 | 2 | 1012 | -0.01 | 9.4 | 4.98 |
| 26/03/2021 02:01 | 8.9 | 9.8 | 3.7 | 1 | 2 | 1011 | -0.02 | 9.6 | 5.01 |
| 26/03/2021 03:01 | 9.0 | 10.1 | 3.5 | 1 | 2 | 1011 | -0.01 | 9.8 | 5.03 |
| 26/03/2021 04:01 | 8.8 | 10.4 | 3.2 | 1 | 2 | 1010 | -0.03 | 9.5 | 5.05 |
| 26/03/2021 05:01 | 9.5 | 11.5 | 2.5 | 1 | 2 | 1009 | -0.03 | 9.3 | 5.06 |
| 26/03/2021 06:01 | 9.5 | 11.5 | 2.2 | 1 | 2 | 1009 | -0.02 | 9.1 | 5.06 |
| 26/03/2021 07:01 | 9.5 | 11.7 | 2.0 | 1 | 2 | 1008 | -0.01 | 9.5 | 5.05 |
| 26/03/2021 08:01 | 9.5 | 11.7 | 2.0 | 1 | 2 | 1008 | -0.01 | 9.9 | 5.03 |
| 26/03/2021 09:01 | 9.4 | 11.9 | 2.0 | 1 | 2 | 1008 | -0.02 | 10.8 | 4.98 |
| 26/03/2021 10:01 | 9.3 | 12.1 | 1.8 | 1 | 2 | 1008 | -0.02 | 10.9 | 4.94 |
| 26/03/2021 11:01 | 8.9 | 12.1 | 1.7 | 1 | 2 | 1007 | -0.01 | 10.9 | 4.92 |
| 26/03/2021 12:01 | 8.8 | 12.3 | 1.7 | 1 | 2 | 1006 | 0.00 | 11.9 | 4.93 |
| 26/03/2021 13:01 | 9.1 | 12.3 | 1.7 | 1 | 2 | 1006 | -0.02 | 12.4 | 4.96 |
| 26/03/2021 14:01 | 9.4 | 12.2 | 1.9 | 1 | 2 | 1006 | -0.03 | 8.1 | 4.99 |
| 26/03/2021 15:01 | 10.0 | 11.9 | 1.9 | 1 | 2 | 1006 | -0.02 | 8.6 | 5.02 |
| 26/03/2021 16:01 | 10.9 | 11.9 | 1.9 | 1 | 2 | 1006 | -0.01 | 8.3 | 5.04 |
| 26/03/2021 17:01 | 12.1 | 12.1 | 1.7 | 1 | 2 | 1006 | -0.01 | 8.4 | 5.05 |
| 26/03/2021 18:01 | 13.0 | 11.9 | 1.9 | 1 | 2 | 1007 | -0.05 | 8.1 | 5.06 |
| 26/03/2021 19:01 | 13.0 | 11.7 | 1.9 | 1 | 2 | 1007 | -0.03 | 7.3 | 5.06 |
| 26/03/2021 20:01 | 13.4 | 11.7 | 2.0 | 1 | 2 | 1008 | -0.02 | 6.4 | 5.05 |
| 26/03/2021 21:01 | 13.3 | 11.4 | 2.6 | 1 | 2 | 1009 | -0.03 | 4.7 | 5.00 |
| 26/03/2021 22:01 | 12.8 | 10.6 | 3.3 | 1 | 3 | 1009 | -0.04 | 5.1 | 4.95 |
| 26/03/2021 23:01 | 12.2 | 10.8 | 3.4 | 1 | 3 | 1009 | -0.02 | 5.2 | 4.92 |
| 27/03/2021 00:01 | 12.1 | 11.1 | 2.8 | 1 | 2 | 1010 | -0.02 | 5.1 | 4.93 |
| 27/03/2021 01:01 | 11.9 | 11.5 | 2.5 | 1 | 2 | 1011 | -0.01 | 4.4 | 4.95 |
| 27/03/2021 02:01 | 11.7 | 11.6 | 2.4 | 1 | 2 | 1011 | -0.02 | 4.1 | 4.99 |
| 27/03/2021 03:01 | 11.5 | 11.5 | 2.4 | 1 | 2 | 1012 | -0.01 | 4.4 | 5.03 |
| 27/03/2021 04:01 | 11.3 | 11.6 | 2.3 | 1 | 2 | 1013 | -0.02 | 4.0 | 5.06 |
| 27/03/2021 05:01 | 11.5 | 11.9 | 2.0 | 1 | 2 | 1014 | -0.03 | 3.7 | 5.07 |
| 27/03/2021 06:01 | 11.9 | 12.1 | 1.9 | 1 | 2 | 1015 | -0.02 | 3.4 | 5.09 |
| 27/03/2021 07:01 | 12.1 | 12.2 | 2.0 | 1 | 2 | 1016 | -0.02 | 4.5 | 5.10 |
| 27/03/2021 08:01 | 12.3 | 12.1 | 1.9 | 1 | 2 | 1017 | -0.01 | 5.8 | 5.09 |
| 27/03/2021 09:01 | 11.8 | 11.8 | 2.3 | 1 | 2 | 1018 | -0.02 | 6.9 | 5.05 |
| 27/03/2021 10:01 | 11.5 | 11.6 | 2.5 | 1 | 2 | 1018 | 0.00 | 8.2 | 5.00 |
| 27/03/2021 11:01 | 10.8 | 11.2 | 3.2 | 1 | 2 | 1019 | -0.03 | 9.2 | 4.96 |
| 27/03/2021 12:01 | 9.9 | 10.2 | 4.4 | 1 | 2 | 1020 | -0.04 | 9.9 | 4.96 |
| 27/03/2021 13:01 | 9.2 | 9.8 | 5.0 | 1 | 3 | 1020 | -0.03 | 9.6 | 4.97 |
| 27/03/2021 14:01 | 7.9 | 8.6 | 6.7 | 1 | 3 | 1020 | -0.03 | 10.2 | 5.01 |

| Date and Time | $CH_4$ % v/v | $CO_2$ % v/v | $O_2$ % v/v | $H_2S$ ppm/v | CO ppm/v | Atmospheric Pressure mbar | Flow Ltr/hr | Temperature °C | Water Level mbgl |
|---|---|---|---|---|---|---|---|---|---|
| 27/03/2021 15:01 | 6.8 | 7.5 | 8.1 | 1 | 3 | 1020 | -0.04 | 10.2 | 5.05 |
| 27/03/2021 16:01 | 6.4 | 7.2 | 8.9 | 1 | 3 | 1020 | -0.05 | 10.9 | 5.08 |
| 27/03/2021 17:01 | 6.4 | 7.0 | 9.3 | 1 | 3 | 1020 | -0.03 | 10.6 | 5.09 |
| 27/03/2021 18:01 | 6.5 | 6.6 | 10.0 | 1 | 3 | 1020 | -0.04 | 10.0 | 5.11 |
| 27/03/2021 19:01 | 6.8 | 6.7 | 10.1 | 1 | 3 | 1020 | -0.07 | 9.6 | 5.11 |
| 27/03/2021 20:01 | 6.9 | 6.5 | 10.5 | 1 | 3 | 1021 | -0.06 | 8.5 | 5.11 |
| 27/03/2021 21:01 | 6.5 | 6.6 | 10.8 | 1 | 3 | 1021 | -0.03 | 8.0 | 5.08 |
| 27/03/2021 22:01 | 6.4 | 6.5 | 10.8 | 1 | 3 | 1021 | -0.05 | 8.2 | 5.03 |
| 27/03/2021 23:01 | 6.3 | 6.7 | 10.5 | 1 | 3 | 1021 | -0.05 | 8.3 | 4.96 |
| 28/03/2021 00:01 | 7.4 | 7.9 | 9.2 | 1 | 2 | 1020 | -0.05 | 8.6 | 4.95 |
| 28/03/2021 01:01 | 7.1 | 7.9 | 9.0 | 1 | 2 | 1020 | -0.03 | 8.7 | 4.94 |
| 28/03/2021 02:01 | 7.6 | 8.8 | 8.1 | 1 | 2 | 1020 | -0.02 | 8.9 | 4.97 |
| 28/03/2021 03:01 | 8.0 | 9.5 | 7.5 | 1 | 2 | 1019 | -0.03 | 9.1 | 5.01 |
| 28/03/2021 04:01 | 8.3 | 10.2 | 6.7 | 1 | 3 | 1019 | -0.03 | 8.8 | 5.05 |
| 28/03/2021 05:01 | 9.9 | 11.1 | 5.4 | 1 | 2 | 1018 | -0.02 | 8.9 | 5.08 |
| 28/03/2021 06:01 | 11.1 | 11.6 | 4.8 | 1 | 3 | 1019 | -0.02 | 9.0 | 5.09 |
| 28/03/2021 07:01 | 11.7 | 11.8 | 4.2 | 1 | 2 | 1019 | -0.03 | 9.3 | 5.10 |
| 28/03/2021 08:01 | 11.5 | 11.7 | 4.1 | 1 | 2 | 1019 | -0.03 | 10.1 | 5.11 |
| 28/03/2021 09:01 | 12.0 | 11.7 | 4.1 | 1 | 2 | 1020 | -0.02 | 10.3 | 5.09 |
| 28/03/2021 10:01 | 12.2 | 11.9 | 3.9 | 1 | 2 | 1020 | -0.02 | 11.5 | 5.04 |
| 28/03/2021 11:01 | 12.3 | 11.7 | 3.9 | 1 | 2 | 1020 | -0.02 | 11.4 | 4.98 |
| 28/03/2021 12:01 | 12.5 | 11.8 | 3.7 | 1 | 2 | 1020 | -0.02 | 11.9 | 4.96 |
| 28/03/2021 13:01 | 12.6 | 11.8 | 3.8 | 1 | 2 | 1021 | -0.02 | 11.5 | 4.96 |
| 28/03/2021 14:01 | 13.0 | 11.6 | 3.9 | 1 | 2 | 1020 | -0.01 | 13.0 | 4.98 |
| 28/03/2021 15:01 | 13.9 | 11.7 | 3.6 | 1 | 3 | 1020 | -0.03 | 13.0 | 5.03 |
| 28/03/2021 16:01 | 15.6 | 11.7 | 3.5 | 1 | 3 | 1020 | -0.04 | 12.5 | 5.08 |
| 28/03/2021 17:01 | 17.3 | 11.5 | 3.2 | 1 | 3 | 1020 | -0.03 | 11.6 | 5.09 |
| 28/03/2021 18:01 | 19.9 | 11.7 | 2.7 | 1 | 3 | 1021 | -0.03 | 10.9 | 5.11 |
| 28/03/2021 19:01 | 22.5 | 11.7 | 2.3 | 1 | 3 | 1021 | -0.01 | 10.3 | 5.11 |
| 28/03/2021 20:01 | 23.7 | 11.8 | 2.0 | 1 | 3 | 1021 | 0.01 | 9.7 | 5.12 |
| 28/03/2021 21:01 | 24.8 | 11.7 | 1.8 | 1 | 3 | 1021 | -0.01 | 9.7 | 5.11 |
| 28/03/2021 22:01 | 24.4 | 11.8 | 1.6 | 1 | 3 | 1021 | 0.02 | 9.6 | 5.07 |
| 28/03/2021 23:01 | 23.4 | 12.1 | 1.4 | 1 | 2 | 1021 | 0.01 | 9.3 | 5.00 |
| 29/03/2021 00:01 | 20.8 | 12.1 | 1.2 | 1 | 2 | 1021 | 0.00 | 9.3 | 4.95 |
| 29/03/2021 01:01 | 18.5 | 12.5 | 1.0 | 1 | 2 | 1021 | 0.00 | 9.1 | 4.94 |
| 29/03/2021 02:01 | 16.1 | 12.5 | 1.1 | 1 | 2 | 1021 | 0.01 | 9.2 | 4.95 |
| 29/03/2021 03:01 | 13.7 | 12.1 | 2.2 | 1 | 2 | 1021 | -0.01 | 8.9 | 5.00 |
| 29/03/2021 04:01 | 12.9 | 12.3 | 1.6 | 1 | 2 | 1021 | -0.03 | 8.8 | 5.06 |
| 29/03/2021 05:01 | 12.0 | 12.8 | 1.3 | 1 | 2 | 1022 | 0.00 | 9.3 | 5.10 |
| 29/03/2021 06:01 | 10.3 | 12.7 | 1.1 | 1 | 1 | 1022 | 0.00 | 9.4 | 5.12 |
| 29/03/2021 07:01 | 8.2 | 13.0 | 0.9 | 1 | 1 | 1023 | -0.02 | 9.6 | 5.13 |
| 29/03/2021 08:01 | 6.7 | 13.2 | 0.7 | 1 | 1 | 1023 | -0.01 | 10.1 | 5.14 |
| 29/03/2021 09:01 | 6.5 | 13.5 | 0.6 | 1 | 1 | 1024 | -0.01 | 11.7 | 5.14 |
| 29/03/2021 10:01 | 6.4 | 13.5 | 0.5 | 1 | 1 | 1024 | -0.01 | 13.1 | 5.11 |
| 29/03/2021 11:01 | 6.5 | 13.6 | 0.5 | 1 | 1 | 1024 | 0.00 | 14.7 | 5.04 |
| 29/03/2021 12:01 | 6.7 | 13.7 | 0.4 | 1 | 1 | 1024 | -0.01 | 16.4 | 4.99 |
| 29/03/2021 13:01 | 5.1 | 11.0 | 3.4 | 1 | 0 | 1024 | -0.01 | 18.0 | 4.99 |
| 29/03/2021 14:01 | 1.7 | 3.7 | 12.6 | 1 | 1 | 1024 | -0.01 | 19.1 | 4.99 |
| 29/03/2021 15:01 | 0.7 | 0.5 | 17.5 | 1 | 2 | 1024 | -0.15 | 19.4 | 5.03 |
| 29/03/2021 16:01 | 1.0 | 0.6 | 18.1 | 1 | 2 | 1024 | -0.13 | 19.1 | 5.10 |
| 29/03/2021 17:01 | 1.6 | 0.7 | 18.4 | 1 | 3 | 1024 | -0.14 | 17.8 | 5.14 |
| 29/03/2021 18:01 | 11.9 | 6.2 | 10.3 | 0 | 5 | 1025 | -0.01 | 15.3 | 5.16 |
| 29/03/2021 19:01 | 35.5 | 12.8 | 1.8 | 0 | 3 | 1025 | -0.02 | 12.6 | 5.18 |
| 29/03/2021 20:01 | 43.8 | 13.2 | 0.8 | 0 | 2 | 1026 | 0.16 | 11.0 | 5.19 |
| 29/03/2021 21:01 | 50.8 | 12.8 | 0.4 | 0 | 2 | 1026 | 0.04 | 9.2 | 5.19 |
| 29/03/2021 22:01 | 54.8 | 12.7 | 0.3 | 0 | 1 | 1026 | 0.03 | 7.4 | 5.18 |
| 29/03/2021 23:01 | 52.8 | 12.8 | 0.2 | 0 | 1 | 1026 | 0.03 | 7.0 | 5.12 |
| 30/03/2021 00:01 | 29.9 | 8.4 | 7.0 | 1 | 0 | 1026 | 0.04 | 4.6 | 5.03 |
| 30/03/2021 01:01 | 5.9 | 1.8 | 16.6 | 1 | 2 | 1027 | 0.02 | 4.5 | 5.00 |
| 30/03/2021 02:01 | 0.9 | 0.0 | 19.6 | 1 | 2 | 1026 | -0.19 | 4.1 | 5.00 |
| 30/03/2021 03:01 | 0.3 | 0.0 | 19.4 | 1 | 2 | 1026 | -0.25 | 2.9 | 5.03 |
| 30/03/2021 04:01 | 0.4 | 0.0 | 19.1 | 1 | 2 | 1026 | -0.13 | 3.0 | 5.09 |
| 30/03/2021 05:01 | 0.3 | 0.1 | 18.8 | 1 | 2 | 1026 | -0.09 | 1.6 | 5.15 |
| 30/03/2021 06:01 | 1.5 | 2.5 | 15.1 | 1 | 2 | 1026 | -0.04 | 3.3 | 5.18 |
| 30/03/2021 07:01 | 15.5 | 12.8 | 3.7 | 1 | 2 | 1026 | -0.01 | 5.3 | 5.20 |
| 30/03/2021 08:01 | 20.3 | 14.3 | 1.8 | 1 | 2 | 1026 | 0.07 | 9.8 | 5.21 |
| 30/03/2021 09:01 | 20.5 | 14.3 | 1.5 | 1 | 1 | 1026 | 0.06 | 13.6 | 5.22 |
| 30/03/2021 10:01 | 21.0 | 14.8 | 1.2 | 1 | 1 | 1026 | 0.02 | 15.8 | 5.20 |
| 30/03/2021 11:01 | 20.6 | 14.5 | 0.8 | 1 | 1 | 1026 | 0.01 | 18.3 | 5.16 |
| 30/03/2021 12:01 | 20.1 | 14.7 | 0.6 | 1 | 1 | 1025 | 0.01 | 20.1 | 5.08 |
| 30/03/2021 13:01 | 12.5 | 10.1 | 6.1 | 1 | 1 | 1025 | 0.00 | 20.7 | 5.04 |
| 30/03/2021 14:01 | 5.1 | 4.5 | 12.5 | 1 | 2 | 1024 | -0.02 | 20.8 | 5.04 |
| 30/03/2021 15:01 | 1.1 | 0.5 | 18.3 | 1 | 1 | 1023 | -0.12 | 21.0 | 5.05 |
| 30/03/2021 16:01 | 0.9 | 0.1 | 19.2 | 1 | 1 | 1023 | -0.10 | 20.6 | 5.10 |
| 30/03/2021 17:01 | 1.1 | 0.4 | 18.8 | 1 | 2 | 1022 | -0.15 | 20.0 | 5.16 |
| 30/03/2021 18:01 | 1.5 | 0.5 | 18.5 | 1 | 2 | 1022 | -0.04 | 17.8 | 5.19 |
| 30/03/2021 19:01 | 11.9 | 8.3 | 8.4 | 1 | 3 | 1022 | -0.02 | 14.9 | 5.21 |
| 30/03/2021 20:01 | 19.3 | 11.1 | 5.1 | 1 | 2 | 1022 | -0.03 | 14.3 | 5.22 |
| 30/03/2021 21:01 | 22.9 | 12.2 | 3.5 | 1 | 2 | 1022 | 0.01 | 10.8 | 5.21 |
| 30/03/2021 22:01 | 24.5 | 12.8 | 2.7 | 1 | 2 | 1022 | 0.00 | 10.2 | 5.20 |
| 30/03/2021 23:01 | 25.0 | 13.1 | 2.3 | 1 | 2 | 1021 | 0.01 | 9.6 | 5.17 |
| 31/03/2021 00:01 | 24.7 | 13.3 | 2.0 | 1 | 1 | 1021 | 0.02 | 8.3 | 5.10 |
| 31/03/2021 01:01 | 13.0 | 8.2 | 8.4 | 1 | 1 | 1020 | 0.01 | 8.1 | 5.03 |
| 31/03/2021 02:01 | 1.5 | 0.8 | 17.8 | 1 | 1 | 1020 | -0.03 | 7.5 | 5.02 |
| 31/03/2021 03:01 | 0.3 | 0.0 | 19.1 | 1 | 1 | 1019 | -0.18 | 7.2 | 5.02 |
| 31/03/2021 04:01 | 0.4 | 0.0 | 19.0 | 1 | 1 | 1019 | -0.19 | 6.9 | 5.06 |
| 31/03/2021 05:01 | 0.4 | 0.1 | 18.8 | 1 | 1 | 1018 | -0.19 | 6.4 | 5.12 |
| 31/03/2021 06:01 | 0.4 | 0.1 | 18.7 | 1 | 1 | 1018 | -0.13 | 6.6 | 5.17 |
| 31/03/2021 07:01 | 2.3 | 3.9 | 13.1 | 1 | 2 | 1018 | -0.04 | 9.0 | 5.20 |
| 31/03/2021 08:01 | 15.2 | 12.8 | 3.8 | 1 | 2 | 1018 | -0.03 | 11.5 | 5.21 |
| 31/03/2021 09:01 | 17.0 | 13.9 | 2.6 | 1 | 1 | 1018 | -0.02 | 15.3 | 5.22 |
| 31/03/2021 10:01 | 17.9 | 14.2 | 2.1 | 1 | 1 | 1018 | 0.12 | 17.6 | 5.22 |
| 31/03/2021 11:01 | 18.6 | 14.4 | 1.7 | 1 | 1 | 1017 | 0.00 | 20.6 | 5.20 |
| 31/03/2021 12:01 | 18.4 | 14.0 | 1.9 | 1 | 1 | 1017 | 0.00 | 21.7 | 5.14 |
| 31/03/2021 13:01 | 4.7 | 4.8 | 12.5 | 1 | 1 | 1017 | 0.01 | 21.1 | 5.07 |
| 31/03/2021 14:01 | 0.4 | 0.1 | 18.7 | 1 | 1 | 1016 | 0.01 | 20.5 | 5.04 |
| 31/03/2021 15:01 | 0.0 | 0.0 | 19.2 | 1 | 1 | 1016 | -0.10 | 20.0 | 5.04 |
| 31/03/2021 16:01 | 0.4 | 0.0 | 19.6 | 1 | 1 | 1016 | -0.23 | 20.4 | 5.06 |
| 31/03/2021 17:01 | 0.7 | 0.0 | 19.9 | 1 | 2 | 1016 | -0.23 | 19.8 | 5.12 |
| 31/03/2021 18:01 | 1.0 | 0.1 | 20.1 | 1 | 2 | 1016 | -0.14 | 18.5 | 5.17 |
| 31/03/2021 19:01 | 1.4 | 0.1 | 20.3 | 0 | 2 | 1016 | -0.06 | 17.2 | 5.20 |
| 31/03/2021 20:01 | 10.2 | 4.1 | 13.4 | 0 | 3 | 1016 | -0.03 | 15.9 | 5.22 |
| 31/03/2021 21:01 | 28.7 | 10.2 | 5.2 | 0 | 2 | 1016 | -0.03 | 14.2 | 5.23 |
| 31/03/2021 22:01 | 30.8 | 11.1 | 3.9 | 0 | 2 | 1017 | -0.01 | 13.6 | 5.23 |
| 31/03/2021 23:01 | 30.4 | 11.8 | 3.2 | 0 | 2 | 1017 | 0.05 | 12.8 | 5.22 |
| 01/04/2021 00:01 | 26.8 | 12.1 | 3.2 | 1 | 1 | 1017 | 0.02 | 12.7 | 5.18 |
| 01/04/2021 01:01 | 9.2 | 4.7 | 12.7 | 1 | 1 | 1017 | 0.02 | 11.3 | 5.10 |
| 01/04/2021 02:01 | 1.0 | 0.1 | 19.1 | 1 | 1 | 1017 | 0.02 | 11.0 | 5.05 |
| 01/04/2021 03:01 | 0.5 | 0.0 | 19.2 | 1 | 1 | 1018 | -0.06 | 11.9 | 5.05 |
| 01/04/2021 04:01 | 0.4 | 0.1 | 18.9 | 1 | 1 | 1019 | -0.20 | 9.9 | 5.05 |
| 01/04/2021 05:01 | 0.3 | 0.1 | 18.6 | 1 | 1 | 1019 | -0.19 | 8.4 | 5.11 |
| 01/04/2021 06:01 | 0.3 | 0.1 | 18.3 | 1 | 1 | 1020 | -0.05 | 7.7 | 5.17 |
| 01/04/2021 07:01 | 0.5 | 0.2 | 17.9 | 1 | 1 | 1021 | -0.04 | 8.0 | 5.21 |
| 01/04/2021 08:01 | 0.7 | 0.5 | 17.2 | 1 | 1 | 1021 | -0.03 | 8.7 | 5.23 |

| Date and Time | $CH_4$ % v/v | $CO_2$ % v/v | $O_2$ % v/v | $H_2S$ ppm/v | CO ppm/v | Atmospheric Pressure mbar | Flow Ltr/hr | Temperature °C | Water Level mbgl |
|---|---|---|---|---|---|---|---|---|---|
| 01/04/2021 09:01 | 0.9 | 0.8 | 16.1 | 1 | 1 | 1022 | -0.02 | 9.6 | 5.24 |
| 01/04/2021 10:01 | 1.0 | 1.3 | 15.0 | 1 | 1 | 1022 | -0.01 | 10.4 | 5.25 |
| 01/04/2021 11:01 | 1.1 | 1.9 | 13.9 | 1 | 1 | 1023 | 0.00 | 11.8 | 5.24 |
| 01/04/2021 12:01 | 1.2 | 2.5 | 13.0 | 1 | 1 | 1023 | -0.03 | 13.2 | 5.22 |
| 01/04/2021 13:01 | 1.3 | 3.0 | 12.4 | 1 | 1 | 1023 | -0.03 | 13.7 | 5.15 |
| 01/04/2021 14:01 | 1.3 | 2.6 | 13.1 | 1 | 1 | 1023 | -0.04 | 13.9 | 5.10 |
| 01/04/2021 15:01 | 1.4 | 2.5 | 13.4 | 1 | 1 | 1023 | -0.03 | 11.4 | 5.08 |
| 01/04/2021 16:01 | 1.7 | 2.5 | 13.6 | 1 | 2 | 1023 | -0.03 | 10.8 | 5.08 |
| 01/04/2021 17:01 | 1.9 | 2.5 | 13.4 | 1 | 2 | 1023 | -0.03 | 9.9 | 5.12 |
| 01/04/2021 18:01 | 3.1 | 2.8 | 13.1 | 1 | 2 | 1024 | -0.04 | 8.6 | 5.18 |
| 01/04/2021 19:01 | 4.7 | 3.6 | 11.9 | 1 | 2 | 1024 | -0.03 | 7.2 | 5.22 |
| 01/04/2021 20:01 | 7.2 | 4.8 | 9.9 | 0 | 2 | 1025 | -0.02 | 6.3 | 5.25 |
| 01/04/2021 21:01 | 9.8 | 6.6 | 7.6 | 0 | 2 | 1025 | -0.02 | 5.5 | 5.26 |
| 01/04/2021 22:01 | 11.5 | 8.2 | 5.5 | 0 | 2 | 1026 | -0.02 | 5.7 | 5.27 |
| 01/04/2021 23:01 | 12.1 | 9.5 | 4.2 | 0 | 2 | 1026 | 0.00 | 5.6 | 5.28 |
| 02/04/2021 00:01 | 10.0 | 10.3 | 3.3 | 1 | 2 | 1026 | 0.01 | 5.1 | 5.27 |
| 02/04/2021 01:01 | 8.8 | 11.3 | 2.4 | 1 | 1 | 1026 | 0.00 | 5.1 | 5.23 |
| 02/04/2021 02:01 | 8.0 | 12.1 | 1.7 | 1 | 1 | 1026 | 0.00 | 5.3 | 5.16 |
| 02/04/2021 03:01 | 7.8 | 12.7 | 1.4 | 1 | 1 | 1026 | -0.02 | 5.1 | 5.13 |
| 02/04/2021 04:01 | 7.8 | 13.0 | 1.1 | 1 | 1 | 1025 | -0.01 | 5.2 | 5.14 |
| 02/04/2021 05:01 | 7.8 | 13.4 | 0.8 | 1 | 1 | 1025 | -0.01 | 5.2 | 5.16 |
| 02/04/2021 06:01 | 7.6 | 13.4 | 0.8 | 1 | 1 | 1026 | 0.00 | 5.3 | 5.21 |
| 02/04/2021 07:01 | 7.4 | 13.6 | 0.6 | 1 | 1 | 1026 | -0.01 | 5.6 | 5.26 |
| 02/04/2021 08:01 | 7.4 | 13.6 | 0.4 | 1 | 1 | 1027 | 0.00 | 5.9 | 5.28 |
| 02/04/2021 09:01 | 7.4 | 13.7 | 0.4 | 1 | 1 | 1027 | -0.01 | 6.3 | 5.29 |
| 02/04/2021 10:01 | 7.5 | 13.8 | 0.3 | 1 | 1 | 1028 | 0.00 | 6.8 | 5.30 |
| 02/04/2021 11:01 | 7.6 | 13.8 | 0.3 | 1 | 1 | 1028 | 0.00 | 7.4 | 5.31 |
| 02/04/2021 12:01 | 7.7 | 13.7 | 0.3 | 1 | 1 | 1028 | 0.00 | 8.1 | 5.30 |
| 02/04/2021 13:01 | 7.9 | 13.6 | 0.3 | 1 | 1 | 1027 | 0.00 | 9.8 | 5.28 |
| 02/04/2021 14:01 | 8.3 | 13.7 | 0.4 | 1 | 1 | 1027 | -0.02 | 9.3 | 5.23 |
| 02/04/2021 15:01 | 9.0 | 13.5 | 0.4 | 1 | 1 | 1027 | -0.02 | 9.8 | 5.20 |
| 02/04/2021 16:01 | 10.3 | 13.4 | 0.5 | 1 | 1 | 1027 | -0.03 | 7.9 | 5.19 |
| 02/04/2021 17:01 | 11.7 | 13.4 | 0.4 | 1 | 1 | 1027 | 0.00 | 7.3 | 5.19 |
| 02/04/2021 18:01 | 13.4 | 13.0 | 0.4 | 1 | 1 | 1028 | -0.02 | 7.2 | 5.23 |
| 02/04/2021 19:01 | 15.4 | 12.7 | 0.3 | 1 | 2 | 1028 | -0.02 | 7.2 | 5.27 |
| 02/04/2021 20:01 | 17.9 | 12.5 | 0.2 | 1 | 2 | 1028 | -0.02 | 6.9 | 5.29 |
| 02/04/2021 21:01 | 19.7 | 12.7 | 0.2 | 1 | 1 | 1028 | -0.01 | 7.0 | 5.31 |
| 02/04/2021 22:01 | 20.7 | 12.5 | 0.2 | 0 | 1 | 1028 | -0.01 | 6.9 | 5.32 |
| 02/04/2021 23:01 | 19.8 | 12.8 | 0.1 | 1 | 1 | 1028 | 0.00 | 5.3 | 5.32 |
| 03/04/2021 00:01 | 17.6 | 12.9 | 0.1 | 1 | 1 | 1028 | 0.01 | 5.7 | 5.33 |
| 03/04/2021 01:01 | 15.3 | 13.4 | 0.1 | 1 | 1 | 1028 | 0.00 | 4.9 | 5.32 |
| 03/04/2021 02:01 | 14.1 | 13.5 | 0.1 | 1 | 1 | 1028 | 0.02 | 5.5 | 5.27 |
| 03/04/2021 03:01 | 13.2 | 14.0 | 0.2 | 1 | 1 | 1028 | 0.02 | 5.8 | 5.22 |
| 03/04/2021 04:01 | 12.6 | 13.8 | 0.1 | 1 | 1 | 1028 | 0.02 | 5.8 | 5.20 |
| 03/04/2021 05:01 | 12.2 | 14.2 | 0.1 | 1 | 1 | 1028 | 0.00 | 5.5 | 5.21 |
| 03/04/2021 06:01 | 11.7 | 14.2 | 0.1 | 1 | 1 | 1029 | -0.01 | 5.6 | 5.23 |
| 03/04/2021 07:01 | 11.1 | 14.1 | 0.1 | 1 | 1 | 1029 | 0.00 | 5.9 | 5.27 |
| 03/04/2021 08:01 | 11.0 | 14.1 | 0.1 | 1 | 1 | 1029 | 0.00 | 6.3 | 5.31 |
| 03/04/2021 09:01 | 10.5 | 14.3 | 0.1 | 1 | 1 | 1030 | 0.00 | 6.7 | 5.32 |
| 03/04/2021 10:01 | 10.1 | 14.1 | 0.1 | 1 | 1 | 1030 | -0.01 | 7.2 | 5.33 |
| 03/04/2021 11:01 | 10.0 | 14.2 | 0.1 | 1 | 1 | 1030 | 0.00 | 7.7 | 5.34 |
| 03/04/2021 12:01 | 10.0 | 14.2 | 0.1 | 1 | 1 | 1030 | 0.00 | 8.0 | 5.35 |
| 03/04/2021 13:01 | 10.2 | 14.1 | 0.1 | 1 | 1 | 1029 | 0.00 | 8.3 | 5.34 |
| 03/04/2021 14:01 | 11.0 | 14.1 | 0.1 | 1 | 1 | 1029 | 0.01 | 8.6 | 5.32 |
| 03/04/2021 15:01 | 12.1 | 14.0 | 0.1 | 1 | 1 | 1029 | 0.00 | 8.6 | 5.27 |
| 03/04/2021 16:01 | 14.6 | 13.7 | 0.1 | 1 | 1 | 1028 | 0.01 | 8.8 | 5.23 |
| 03/04/2021 17:01 | 17.0 | 13.5 | 0.1 | 1 | 1 | 1028 | 0.00 | 8.5 | 5.23 |
| 03/04/2021 18:01 | 19.3 | 13.0 | 0.1 | 1 | 1 | 1028 | 0.00 | 8.0 | 5.24 |
| 03/04/2021 19:01 | 21.5 | 13.2 | 0.1 | 1 | 1 | 1028 | -0.02 | 7.3 | 5.28 |
| 03/04/2021 20:01 | 21.9 | 13.0 | 0.1 | 1 | 2 | 1028 | 0.00 | 6.9 | 5.31 |
| 03/04/2021 21:01 | 22.9 | 12.8 | 0.1 | 1 | 1 | 1028 | -0.03 | 6.6 | 5.34 |
| 03/04/2021 22:01 | 23.4 | 12.8 | 0.1 | 1 | 1 | 1028 | 0.00 | 6.1 | 5.35 |
| 03/04/2021 23:01 | 22.0 | 12.8 | 0.1 | 1 | 1 | 1028 | 0.00 | 5.9 | 5.36 |
| 04/04/2021 00:01 | 20.3 | 13.1 | 0.1 | 1 | 1 | 1028 | 0.01 | 5.3 | 5.37 |
| 04/04/2021 01:01 | 17.8 | 13.1 | 0.1 | 1 | 1 | 1027 | 0.01 | 5.1 | 5.37 |
| 04/04/2021 02:01 | 16.8 | 13.4 | 0.1 | 1 | 1 | 1027 | 0.01 | 5.1 | 5.36 |
| 04/04/2021 03:01 | 15.6 | 13.2 | 0.0 | 1 | 1 | 1027 | -0.01 | 4.8 | 5.32 |
| 04/04/2021 04:01 | 15.2 | 13.6 | 0.0 | 1 | 1 | 1027 | -0.01 | 4.8 | 5.28 |
| 04/04/2021 05:01 | 14.7 | 13.6 | 0.0 | 1 | 1 | 1026 | -0.01 | 4.6 | 5.26 |
| 04/04/2021 06:01 | 14.5 | 13.6 | 0.0 | 1 | 1 | 1026 | -0.01 | 4.5 | 5.27 |
| 04/04/2021 07:01 | 14.5 | 13.8 | 0.0 | 1 | 1 | 1026 | 0.00 | 4.8 | 5.30 |
| 04/04/2021 08:01 | 14.0 | 13.8 | 0.0 | 1 | 1 | 1025 | -0.02 | 4.9 | 5.33 |
| 04/04/2021 09:01 | 14.2 | 14.0 | 0.0 | 1 | 1 | 1025 | 0.01 | 5.4 | 5.36 |
| 04/04/2021 10:01 | 13.7 | 13.8 | 0.0 | 1 | 1 | 1025 | 0.01 | 6.6 | 5.38 |
| 04/04/2021 11:01 | 13.8 | 13.9 | 0.1 | 1 | 1 | 1024 | 0.01 | 8.2 | 5.39 |
| 04/04/2021 12:01 | 13.9 | 14.0 | 0.1 | 1 | 1 | 1023 | 0.01 | 10.1 | 5.39 |
| 04/04/2021 13:01 | 14.6 | 14.0 | 0.1 | 1 | 1 | 1022 | 0.00 | 11.6 | 5.39 |
| 04/04/2021 14:01 | 15.0 | 13.9 | 0.1 | 1 | 1 | 1020 | 0.00 | 13.1 | 5.39 |
| 04/04/2021 15:01 | 16.0 | 13.6 | 0.1 | 1 | 1 | 1019 | 0.00 | 14.0 | 5.36 |
| 04/04/2021 16:01 | 17.3 | 13.5 | 0.1 | 1 | 1 | 1018 | 0.00 | 14.0 | 5.32 |
| 04/04/2021 17:01 | 18.1 | 13.6 | 0.1 | 1 | 1 | 1018 | -0.01 | 14.3 | 5.29 |
| 04/04/2021 18:01 | 17.9 | 13.7 | 0.1 | 1 | 1 | 1017 | 0.00 | 13.5 | 5.28 |
| 04/04/2021 19:01 | 18.0 | 14.0 | 0.0 | 1 | 1 | 1016 | 0.00 | 12.0 | 5.30 |
| 04/04/2021 20:01 | 19.4 | 13.8 | 0.0 | 1 | 1 | 1015 | -0.01 | 10.7 | 5.33 |
| 04/04/2021 21:01 | 20.6 | 13.6 | 0.0 | 1 | 1 | 1015 | -0.01 | 9.8 | 5.36 |
| 04/04/2021 22:01 | 21.9 | 13.6 | 0.0 | 1 | 1 | 1014 | -0.01 | 10.1 | 5.38 |
| 04/04/2021 23:01 | 22.0 | 13.4 | 0.0 | 1 | 1 | 1013 | 0.00 | 10.3 | 5.39 |
| 05/04/2021 00:01 | 20.2 | 13.5 | 0.1 | 1 | 1 | 1012 | 0.02 | 9.5 | 5.39 |
| 05/04/2021 01:01 | 18.0 | 13.6 | 0.1 | 1 | 1 | 1012 | -0.01 | 8.9 | 5.40 |
| 05/04/2021 02:01 | 16.6 | 13.8 | 0.1 | 1 | 1 | 1011 | 0.01 | 8.9 | 5.40 |
| 05/04/2021 03:01 | 15.4 | 14.1 | 0.0 | 1 | 1 | 1011 | 0.01 | 8.4 | 5.39 |
| 05/04/2021 04:01 | 14.2 | 14.1 | 0.0 | 1 | 1 | 1010 | 0.01 | 7.7 | 5.35 |
| 05/04/2021 05:01 | 13.6 | 14.1 | 0.0 | 1 | 1 | 1010 | 0.00 | 8.1 | 5.31 |
| 05/04/2021 06:01 | 12.6 | 14.2 | 0.0 | 1 | 1 | 1011 | -0.01 | 6.9 | 5.29 |
| 05/04/2021 07:01 | 12.2 | 14.3 | 0.0 | 1 | 1 | 1012 | 0.00 | 6.0 | 5.30 |
| 05/04/2021 08:01 | 11.8 | 14.4 | 0.0 | 1 | 1 | 1013 | 0.00 | 3.6 | 5.33 |
| 05/04/2021 09:01 | 11.1 | 14.3 | 0.0 | 1 | 1 | 1014 | 0.00 | 3.9 | 5.36 |
| 05/04/2021 10:01 | 11.0 | 14.3 | 0.0 | 1 | 1 | 1015 | 0.00 | 3.4 | 5.39 |
| 05/04/2021 11:01 | 11.0 | 14.6 | 0.0 | 1 | 1 | 1015 | 0.00 | 4.2 | 5.40 |
| 05/04/2021 12:01 | 10.9 | 14.5 | 0.0 | 1 | 1 | 1016 | 0.00 | 4.3 | 5.41 |
| 05/04/2021 13:01 | 11.7 | 14.5 | 0.0 | 1 | 1 | 1016 | 0.01 | 5.3 | 5.42 |
| 05/04/2021 14:01 | 12.4 | 14.5 | 0.0 | 1 | 1 | 1016 | 0.02 | 5.5 | 5.42 |
| 05/04/2021 15:01 | 13.9 | 14.5 | 0.0 | 1 | 1 | 1016 | 0.00 | 5.9 | 5.41 |
| 05/04/2021 16:01 | 15.8 | 14.2 | 0.0 | 1 | 1 | 1016 | 0.00 | 6.1 | 5.39 |
| 05/04/2021 17:01 | 18.4 | 14.3 | 0.0 | 1 | 1 | 1017 | 0.00 | 5.7 | 5.36 |
| 05/04/2021 18:01 | 20.1 | 13.9 | 0.0 | 1 | 1 | 1017 | 0.00 | 5.1 | 5.33 |
| 05/04/2021 19:01 | 21.7 | 13.7 | 0.0 | 1 | 1 | 1018 | 0.02 | 3.3 | 5.32 |
| 05/04/2021 20:01 | 21.1 | 13.6 | 0.0 | 1 | 1 | 1018 | 0.00 | 1.4 | 5.32 |
| 05/04/2021 21:01 | 21.0 | 13.8 | 0.0 | 1 | 1 | 1018 | -0.01 | 2.1 | 5.35 |
| 05/04/2021 22:01 | 20.3 | 13.6 | 0.0 | 1 | 1 | 1018 | 0.01 | 2.8 | 5.38 |
| 05/04/2021 23:01 | 19.8 | 14.0 | 0.0 | 1 | 1 | 1018 | 0.01 | 2.7 | 5.41 |
| 06/04/2021 00:01 | 18.5 | 13.9 | 0.1 | 1 | 1 | 1018 | 0.02 | 2.2 | 5.42 |
| 06/04/2021 01:01 | 17.2 | 14.0 | 0.1 | 1 | 1 | 1018 | 0.00 | 1.5 | 5.43 |
| 06/04/2021 02:01 | 16.3 | 14.3 | 0.1 | 1 | 1 | 1018 | 0.02 | 1.2 | 5.43 |

| Date and Time | $CH_4$ % v/v | $CO_2$ % v/v | $O_2$ % v/v | $H_2S$ ppm/v | CO ppm/v | Atmospheric Pressure mbar | Flow Ltr/hr | Temperature °C | Water Level mbgl |
|---|---|---|---|---|---|---|---|---|---|
| 06/04/2021 03:01 | 15.5 | 14.4 | 0.1 | 1 | 1 | 1017 | 0.01 | 0.6 | 5.44 |
| 06/04/2021 04:01 | 14.5 | 14.4 | 0.1 | 1 | 1 | 1017 | -0.03 | 0.4 | 5.43 |
| 06/04/2021 05:01 | 13.8 | 14.5 | 0.0 | 1 | 1 | 1017 | 0.00 | 0.0 | 5.42 |
| 06/04/2021 06:01 | 13.1 | 14.5 | 0.0 | 1 | 1 | 1017 | 0.00 | 0.0 | 5.39 |
| 06/04/2021 07:01 | 12.8 | 14.6 | 0.0 | 1 | 1 | 1017 | 0.00 | 1.4 | 5.37 |
| 06/04/2021 08:01 | 12.3 | 14.7 | 0.0 | 1 | 1 | 1017 | 0.00 | 2.8 | 5.37 |
| 06/04/2021 09:01 | 11.8 | 14.6 | 0.0 | 1 | 1 | 1017 | 0.00 | 3.3 | 5.38 |
| 06/04/2021 10:01 | 11.5 | 14.5 | 0.0 | 1 | 1 | 1017 | 0.00 | 4.5 | 5.40 |
| 06/04/2021 11:01 | 11.7 | 14.8 | 0.0 | 1 | 1 | 1016 | 0.00 | 5.6 | 5.43 |
| 06/04/2021 12:01 | 11.6 | 14.7 | 0.0 | 1 | 1 | 1015 | 0.00 | 5.6 | 5.44 |
| 06/04/2021 13:01 | 12.3 | 14.7 | 0.0 | 1 | 1 | 1015 | 0.01 | 6.0 | 5.46 |
| 06/04/2021 14:01 | 13.7 | 14.9 | 0.0 | 1 | 1 | 1015 | 0.01 | 5.9 | 5.46 |
| 06/04/2021 15:01 | 15.3 | 14.5 | 0.0 | 1 | 1 | 1015 | 0.02 | 4.6 | 5.47 |
| 06/04/2021 16:01 | 17.4 | 14.3 | 0.0 | 1 | 1 | 1015 | 0.01 | 5.2 | 5.46 |
| 06/04/2021 17:01 | 19.2 | 14.5 | 0.0 | 1 | 1 | 1015 | 0.01 | 4.2 | 5.46 |
| 06/04/2021 18:01 | 20.1 | 13.8 | 0.0 | 1 | 1 | 1015 | 0.00 | 4.3 | 5.44 |
| 06/04/2021 19:01 | 20.6 | 13.9 | 0.0 | 1 | 1 | 1016 | 0.00 | 2.4 | 5.40 |
| 06/04/2021 20:01 | 21.2 | 14.0 | 0.0 | 1 | 1 | 1017 | -0.01 | 1.3 | 5.37 |
| 06/04/2021 21:01 | 20.9 | 13.7 | 0.0 | 1 | 1 | 1017 | 0.00 | -0.2 | 5.36 |
| 06/04/2021 22:01 | 20.9 | 14.0 | 0.0 | 1 | 1 | 1018 | 0.00 | 0.1 | 5.37 |
| 06/04/2021 23:01 | 20.1 | 13.9 | 0.0 | 1 | 1 | 1018 | -0.01 | -0.3 | 5.39 |
| 07/04/2021 00:01 | 19.5 | 14.3 | 0.0 | 1 | 1 | 1019 | 0.00 | -0.7 | 5.42 |
| 07/04/2021 01:01 | 18.8 | 14.3 | 0.0 | 1 | 1 | 1019 | 0.01 | -1.1 | 5.44 |
| 07/04/2021 02:01 | 18.4 | 14.3 | 0.0 | 1 | 1 | 1018 | 0.00 | -1.1 | 5.46 |
| 07/04/2021 03:01 | 17.8 | 14.2 | 0.0 | 1 | 1 | 1019 | 0.00 | -1.1 | 5.46 |
| 07/04/2021 04:01 | 17.6 | 14.4 | 0.0 | 1 | 1 | 1019 | 0.00 | -1.1 | 5.47 |
| 07/04/2021 05:01 | 17.2 | 14.3 | 0.0 | 1 | 1 | 1019 | 0.01 | -1.2 | 5.47 |
| 07/04/2021 06:01 | 17.2 | 14.5 | 0.0 | 1 | 1 | 1020 | 0.00 | -1.0 | 5.46 |
| 07/04/2021 07:01 | 16.6 | 14.2 | 0.0 | 1 | 1 | 1020 | 0.00 | 0.6 | 5.43 |
| 07/04/2021 08:01 | 16.4 | 14.5 | 0.0 | 1 | 1 | 1020 | -0.01 | 2.6 | 5.40 |
| 07/04/2021 09:01 | 15.8 | 14.5 | 0.0 | 1 | 1 | 1020 | 0.00 | 4.2 | 5.38 |
| 07/04/2021 10:01 | 15.7 | 14.5 | 0.0 | 1 | 1 | 1020 | 0.00 | 4.5 | 5.38 |
| 07/04/2021 11:01 | 15.7 | 14.7 | 0.0 | 1 | 1 | 1020 | 0.00 | 4.8 | 5.40 |
| 07/04/2021 12:01 | 15.7 | 14.6 | 0.0 | 1 | 1 | 1020 | 0.00 | 4.9 | 5.43 |
| 07/04/2021 13:01 | 16.3 | 14.3 | 0.0 | 1 | 1 | 1020 | 0.00 | 5.4 | 5.45 |
| 07/04/2021 14:01 | 17.5 | 14.6 | 0.1 | 1 | 1 | 1020 | 0.00 | 5.7 | 5.47 |
| 07/04/2021 15:01 | 18.2 | 14.2 | 0.1 | 1 | 1 | 1020 | 0.00 | 6.2 | 5.48 |
| 07/04/2021 16:01 | 19.8 | 14.2 | 0.1 | 1 | 1 | 1020 | 0.00 | 6.3 | 5.48 |
| 07/04/2021 17:01 | 21.0 | 14.1 | 0.1 | 1 | 2 | 1020 | 0.01 | 5.9 | 5.48 |
| 07/04/2021 18:01 | 22.2 | 13.8 | 0.1 | 1 | 2 | 1020 | 0.01 | 5.6 | 5.48 |
| 07/04/2021 19:01 | 23.5 | 13.7 | 0.2 | 1 | 2 | 1021 | 0.00 | 5.1 | 5.46 |
| 07/04/2021 20:01 | 24.4 | 13.5 | 0.2 | 1 | 2 | 1021 | 0.00 | 5.1 | 5.42 |
| 07/04/2021 21:01 | 25.5 | 13.5 | 0.2 | 1 | 2 | 1021 | 0.01 | 5.0 | 5.38 |
| 07/04/2021 22:01 | 25.0 | 13.4 | 0.1 | 1 | 2 | 1021 | -0.02 | 4.8 | 5.37 |
| 07/04/2021 23:01 | 23.6 | 13.4 | 0.1 | 1 | 2 | 1021 | -0.02 | 4.8 | 5.38 |
| 08/04/2021 00:01 | 22.1 | 13.6 | 0.0 | 1 | 1 | 1022 | 0.01 | 4.8 | 5.41 |
| 08/04/2021 01:01 | 20.6 | 13.8 | 0.0 | 1 | 1 | 1021 | -0.02 | 4.6 | 5.44 |
| 08/04/2021 02:01 | 19.2 | 13.6 | 0.0 | 1 | 1 | 1021 | -0.01 | 4.4 | 5.46 |
| 08/04/2021 03:01 | 19.2 | 14.1 | 0.0 | 1 | 1 | 1021 | -0.01 | 3.6 | 5.48 |
| 08/04/2021 04:01 | 18.3 | 14.0 | 0.0 | 1 | 1 | 1020 | -0.01 | 3.8 | 5.49 |
| 08/04/2021 05:01 | 17.8 | 14.1 | 0.0 | 1 | 1 | 1021 | -0.02 | 3.4 | 5.50 |
| 08/04/2021 06:01 | 17.5 | 14.2 | 0.0 | 1 | 1 | 1020 | -0.01 | 4.0 | 5.50 |
| 08/04/2021 07:01 | 16.7 | 14.3 | 0.0 | 1 | 1 | 1020 | 0.00 | 4.7 | 5.49 |
| 08/04/2021 08:01 | 16.3 | 14.2 | 0.0 | 1 | 1 | 1020 | 0.00 | 5.9 | 5.47 |
| 08/04/2021 09:01 | 15.9 | 14.2 | 0.0 | 1 | 1 | 1020 | 0.00 | 7.4 | 5.43 |
| 08/04/2021 10:01 | 15.9 | 14.4 | 0.0 | 1 | 1 | 1020 | 0.00 | 8.9 | 5.41 |
| 08/04/2021 11:01 | 15.5 | 14.4 | 0.0 | 1 | 1 | 1019 | 0.00 | 8.9 | 5.42 |
| 08/04/2021 12:01 | 15.5 | 14.4 | 0.0 | 1 | 1 | 1018 | 0.00 | 10.6 | 5.43 |
| 08/04/2021 13:01 | 15.8 | 14.4 | 0.0 | 1 | 1 | 1018 | 0.01 | 11.5 | 5.46 |
| 08/04/2021 14:01 | 16.8 | 14.5 | 0.0 | 1 | 1 | 1017 | 0.00 | 12.0 | 5.48 |
| 08/04/2021 15:01 | 18.0 | 14.3 | 0.0 | 1 | 2 | 1016 | 0.01 | 12.0 | 5.50 |
| 08/04/2021 16:01 | 19.7 | 14.0 | 0.1 | 1 | 1 | 1016 | 0.00 | 11.1 | 5.51 |
| 08/04/2021 17:01 | 21.2 | 13.6 | 0.1 | 1 | 2 | 1015 | 0.00 | 10.7 | 5.52 |
| 08/04/2021 18:01 | 22.5 | 13.7 | 0.1 | 1 | 2 | 1015 | 0.00 | 10.1 | 5.52 |
| 08/04/2021 19:01 | 23.0 | 13.7 | 0.1 | 1 | 2 | 1015 | 0.00 | 9.0 | 5.52 |
| 08/04/2021 20:01 | 23.7 | 13.8 | 0.1 | 1 | 2 | 1015 | 0.00 | 8.0 | 5.50 |
| 08/04/2021 21:01 | 23.6 | 13.4 | 0.1 | 1 | 2 | 1014 | -0.01 | 7.3 | 5.45 |
| 08/04/2021 22:01 | 23.9 | 13.6 | 0.1 | 1 | 2 | 1014 | 0.00 | 7.0 | 5.41 |
| 08/04/2021 23:01 | 22.7 | 13.5 | 0.1 | 1 | 1 | 1013 | 0.00 | 6.9 | 5.40 |
| 09/04/2021 00:01 | 21.7 | 13.7 | 0.1 | 1 | 1 | 1013 | 0.00 | 6.6 | 5.41 |
| 09/04/2021 01:01 | 20.4 | 13.8 | 0.0 | 1 | 1 | 1012 | -0.01 | 5.6 | 5.44 |
| 09/04/2021 02:01 | 19.8 | 13.9 | 0.0 | 1 | 1 | 1012 | -0.01 | 5.6 | 5.47 |
| 09/04/2021 03:01 | 19.5 | 14.1 | 0.0 | 1 | 1 | 1011 | -0.01 | 5.2 | 5.49 |
| 09/04/2021 04:01 | 18.9 | 14.1 | 0.0 | 1 | 1 | 1011 | 0.00 | 5.1 | 5.50 |
| 09/04/2021 05:01 | 18.2 | 14.2 | 0.0 | 1 | 1 | 1011 | 0.00 | 5.6 | 5.52 |
| 09/04/2021 06:01 | 17.4 | 14.0 | 0.0 | 1 | 1 | 1011 | 0.00 | 5.2 | 5.52 |
| 09/04/2021 07:01 | 17.0 | 14.2 | 0.0 | 1 | 1 | 1011 | 0.00 | 6.6 | 5.52 |
| 09/04/2021 08:01 | 16.5 | 14.2 | 0.0 | 1 | 1 | 1011 | 0.00 | 8.6 | 5.51 |
| 09/04/2021 09:01 | 16.4 | 14.3 | 0.0 | 1 | 1 | 1010 | -0.01 | 9.4 | 5.45 |
| 09/04/2021 10:01 | 16.3 | 14.4 | 0.0 | 1 | 1 | 1010 | 0.00 | 10.9 | 5.40 |
| 09/04/2021 11:01 | 16.1 | 14.2 | 0.0 | 1 | 1 | 1010 | -0.01 | 10.9 | 5.38 |
| 09/04/2021 12:01 | 16.3 | 14.4 | 0.0 | 1 | 1 | 1009 | 0.00 | 12.8 | 5.39 |
| 09/04/2021 13:01 | 16.6 | 14.5 | 0.0 | 1 | 1 | 1009 | 0.00 | 12.3 | 5.42 |
| 09/04/2021 14:01 | 17.2 | 14.3 | 0.0 | 1 | 1 | 1009 | 0.01 | 13.3 | 5.46 |
| 09/04/2021 15:01 | 17.5 | 14.2 | 0.0 | 1 | 1 | 1008 | 0.00 | 13.4 | 5.48 |
| 09/04/2021 16:01 | 18.2 | 14.3 | 0.0 | 1 | 1 | 1008 | 0.00 | 12.7 | 5.50 |
| 09/04/2021 17:01 | 18.3 | 14.2 | 0.0 | 1 | 1 | 1008 | 0.00 | 10.5 | 5.51 |
| 09/04/2021 18:01 | 18.5 | 14.2 | 0.0 | 1 | 1 | 1008 | 0.00 | 9.5 | 5.52 |
| 09/04/2021 19:01 | 18.6 | 14.4 | 0.0 | 1 | 1 | 1009 | 0.00 | 9.0 | 5.52 |
| 09/04/2021 20:01 | 19.1 | 14.3 | 0.0 | 1 | 1 | 1010 | -0.01 | 8.4 | 5.51 |
| 09/04/2021 21:01 | 18.8 | 14.2 | 0.0 | 1 | 1 | 1010 | 0.00 | 7.7 | 5.47 |
| 09/04/2021 22:01 | 18.7 | 14.4 | 0.0 | 1 | 1 | 1010 | 0.01 | 7.2 | 5.41 |
| 09/04/2021 23:01 | 19.0 | 14.4 | 0.0 | 1 | 1 | 1010 | 0.00 | 6.7 | 5.38 |
| 10/04/2021 00:01 | 18.6 | 14.5 | 0.0 | 1 | 1 | 1010 | 0.00 | 6.5 | 5.38 |
| 10/04/2021 01:01 | 18.3 | 14.5 | 0.0 | 1 | 1 | 1010 | 0.01 | 6.2 | 5.39 |
| 10/04/2021 02:01 | 17.5 | 14.8 | 0.0 | 1 | 1 | 1010 | 0.00 | 5.7 | 5.44 |
| 10/04/2021 03:01 | 16.8 | 14.7 | 0.0 | 1 | 1 | 1010 | 0.01 | 5.5 | 5.48 |
| 10/04/2021 04:01 | 16.3 | 14.7 | 0.0 | 1 | 1 | 1010 | 0.01 | 5.2 | 5.50 |
| 10/04/2021 05:01 | 15.9 | 14.7 | 0.0 | 1 | 1 | 1010 | 0.00 | 4.8 | 5.51 |
| 10/04/2021 06:01 | 15.2 | 14.5 | 0.0 | 1 | 1 | 1010 | 0.00 | 4.9 | 5.52 |
| 10/04/2021 07:01 | 14.9 | 14.5 | 0.0 | 1 | 1 | 1010 | 0.00 | 5.5 | 5.53 |
| 10/04/2021 08:01 | 14.7 | 14.7 | 0.0 | 1 | 1 | 1010 | 0.00 | 6.4 | 5.52 |
| 10/04/2021 09:01 | 14.6 | 14.7 | 0.1 | 1 | 1 | 1010 | 0.00 | 6.9 | 5.50 |
| 10/04/2021 10:01 | 14.3 | 14.8 | 0.1 | 1 | 1 | 1010 | 0.00 | 7.1 | 5.44 |
| 10/04/2021 11:01 | 14.4 | 14.8 | 0.1 | 1 | 1 | 1010 | -0.01 | 7.0 | 5.39 |
| 10/04/2021 12:01 | 14.3 | 14.8 | 0.1 | 1 | 1 | 1010 | 0.00 | 7.0 | 5.39 |
| 10/04/2021 13:01 | 14.9 | 15.1 | 0.1 | 1 | 1 | 1010 | 0.00 | 7.1 | 5.41 |
| 10/04/2021 14:01 | 15.4 | 14.8 | 0.1 | 1 | 1 | 1010 | 0.00 | 6.0 | 5.44 |
| 10/04/2021 15:01 | 16.1 | 14.7 | 0.1 | 1 | 1 | 1009 | 0.00 | 6.3 | 5.48 |
| 10/04/2021 16:01 | 17.9 | 14.5 | 0.0 | 1 | 1 | 1009 | -0.01 | 6.1 | 5.51 |
| 10/04/2021 17:01 | 19.6 | 14.5 | 0.0 | 1 | 2 | 1009 | 0.00 | 6.5 | 5.52 |
| 10/04/2021 18:01 | 21.5 | 14.1 | 0.0 | 1 | 2 | 1009 | 0.00 | 6.1 | 5.53 |
| 10/04/2021 19:01 | 23.2 | 14.2 | 0.0 | 1 | 2 | 1010 | 0.00 | 5.4 | 5.54 |
| 10/04/2021 20:01 | 23.7 | 14.2 | 0.0 | 1 | 2 | 1010 | 0.00 | 4.2 | 5.54 |

| Date and Time | $CH_4$ % v/v | $CO_2$ % v/v | $O_2$ % v/v | $H_2S$ ppm/v | CO ppm/v | Atmospheric Pressure mbar | Flow Ltr/hr | Temperature °C | Water Level mbgl |
|---|---|---|---|---|---|---|---|---|---|
| 10/04/2021 21:01 | 23.9 | 13.7 | 0.0 | 1 | 2 | 1011 | 0.00 | 4.6 | 5.51 |
| 10/04/2021 22:01 | 24.2 | 13.8 | 0.0 | 1 | 2 | 1011 | 0.00 | 3.9 | 5.46 |
| 10/04/2021 23:01 | 23.9 | 14.0 | 0.0 | 1 | 2 | 1011 | 0.00 | 2.3 | 5.40 |
| 11/04/2021 00:01 | 22.3 | 14.0 | 0.1 | 1 | 2 | 1011 | 0.00 | 1.9 | 5.38 |
| 11/04/2021 01:01 | 20.4 | 14.1 | 0.1 | 1 | 1 | 1011 | 0.00 | 1.3 | 5.38 |
| 11/04/2021 02:01 | 18.7 | 14.5 | 0.1 | 1 | 1 | 1011 | 0.00 | 0.9 | 5.41 |
| 11/04/2021 03:01 | 16.8 | 14.3 | 0.1 | 1 | 1 | 1012 | -0.01 | 0.7 | 5.46 |
| 11/04/2021 04:01 | 16.0 | 14.6 | 0.1 | 1 | 1 | 1012 | -0.01 | 0.6 | 5.49 |
| 11/04/2021 05:01 | 14.8 | 14.8 | 0.1 | 1 | 1 | 1012 | -0.01 | -0.4 | 5.51 |
| 11/04/2021 06:01 | 13.7 | 14.9 | 0.1 | 1 | 1 | 1013 | 0.01 | 0.0 | 5.53 |
| 11/04/2021 07:01 | 12.4 | 14.7 | 0.1 | 1 | 1 | 1014 | 0.00 | 3.1 | 5.54 |
| 11/04/2021 08:01 | NM | NM | 0.1 | 1 | 1 | 1014 | 0.01 | 4.3 | 5.55 |
| 11/04/2021 09:01 | NM | NM | 0.1 | 1 | 1 | 1015 | 0.00 | 5.3 | 5.53 |
| 11/04/2021 10:01 | NM | NM | 0.1 | 1 | 1 | 1015 | -0.01 | 6.2 | 5.49 |
| 11/04/2021 11:01 | NM | NM | 0.1 | 1 | 1 | 1015 | -0.01 | 7.2 | 5.43 |
| 11/04/2021 12:01 | NM | NM | 0.2 | 1 | 1 | 1016 | 0.00 | 7.2 | 5.41 |
| 11/04/2021 13:01 | NM | NM | 0.2 | 1 | 1 | 1016 | 0.00 | 8.0 | 5.41 |
| 11/04/2021 14:01 | NM | NM | 0.2 | 1 | 1 | 1016 | -0.01 | 8.0 | 5.44 |
| 11/04/2021 15:01 | NM | NM | 0.2 | 1 | 2 | 1017 | 0.00 | 8.3 | 5.48 |
| 11/04/2021 16:01 | NM | NM | 0.2 | 1 | 2 | 1017 | 0.00 | 7.8 | 5.51 |
| 11/04/2021 17:01 | NM | NM | 0.1 | 1 | 2 | 1018 | 0.00 | 6.3 | 5.53 |
| 11/04/2021 18:01 | NM | NM | 0.1 | 1 | 2 | 1019 | 0.00 | 3.9 | 5.55 |
| 11/04/2021 19:01 | NM | NM | 0.1 | 1 | 2 | 1020 | 0.02 | 3.7 | 5.56 |
| 11/04/2021 20:01 | NM | NM | 0.1 | 1 | 2 | 1021 | 0.01 | 0.8 | 5.57 |
| 11/04/2021 21:01 | NM | NM | 0.1 | 1 | 2 | 1021 | 0.00 | 1.4 | 5.56 |
| 11/04/2021 22:01 | NM | NM | 0.1 | 1 | 2 | 1022 | 0.00 | 0.6 | 5.53 |
| 11/04/2021 23:01 | NM | NM | 0.1 | 1 | 2 | 1022 | 0.00 | 1.4 | 5.46 |
| 12/04/2021 00:01 | NM | NM | 0.1 | 1 | 2 | 1022 | -0.01 | 0.5 | 5.41 |
| 12/04/2021 01:01 | NM | NM | 0.1 | 1 | 2 | 1023 | -0.02 | 0.8 | 5.41 |
| 12/04/2021 02:01 | NM | NM | 0.1 | 1 | 1 | 1023 | -0.01 | 1.0 | 5.42 |
| 12/04/2021 03:01 | NM | NM | 0.1 | 1 | 1 | 1023 | 0.00 | 0.4 | 5.47 |
| 12/04/2021 04:01 | NM | NM | 0.1 | 1 | 1 | 1023 | -0.01 | 0.1 | 5.51 |
| 12/04/2021 05:01 | NM | NM | 0.1 | 1 | 1 | 1023 | 0.00 | 0.4 | 5.53 |
| 12/04/2021 06:01 | NM | NM | 0.1 | 1 | 1 | 1024 | 0.01 | 0.6 | 5.55 |
| 12/04/2021 07:01 | NM | NM | 0.1 | 1 | 1 | 1024 | 0.01 | 1.9 | 5.56 |
| 12/04/2021 08:01 | NM | NM | 0.1 | 1 | 1 | 1025 | -0.01 | 3.0 | 5.57 |
| 12/04/2021 09:01 | NM | NM | 0.1 | 1 | 1 | 1025 | 0.01 | 3.7 | 5.57 |
| 12/04/2021 10:01 | NM | NM | 0.1 | 1 | 1 | 1026 | 0.02 | 4.4 | 5.55 |
| 12/04/2021 11:01 | NM | NM | 0.1 | 1 | 1 | 1026 | -0.01 | 5.0 | 5.49 |
| 12/04/2021 12:01 | NM | NM | 0.1 | 1 | 1 | 1026 | 0.00 | 6.3 | 5.44 |
| 12/04/2021 13:01 | NM | NM | 0.1 | 1 | 1 | 1026 | 0.00 | 7.9 | 5.43 |
| 12/04/2021 14:01 | NM | NM | 0.1 | 1 | 1 | 1026 | -0.01 | 7.0 | 5.43 |
| 12/04/2021 15:01 | NM | NM | 0.1 | 1 | 2 | 1026 | -0.01 | 7.7 | 5.47 |
| 12/04/2021 16:01 | NM | NM | 0.2 | 1 | 2 | 1026 | 0.00 | 9.2 | 5.52 |
| 12/04/2021 17:01 | NM | NM | 0.2 | 1 | 2 | 1026 | 0.01 | 8.4 | 5.54 |
| 12/04/2021 18:01 | NM | NM | 0.2 | 1 | 2 | 1027 | 0.00 | 7.0 | 5.56 |
| 12/04/2021 19:01 | NM | NM | 0.2 | 1 | 2 | 1027 | 0.01 | 6.4 | 5.57 |
| 12/04/2021 20:01 | NM | NM | 0.2 | 1 | 2 | 1028 | 0.01 | 4.3 | 5.58 |
| 12/04/2021 21:01 | NM | NM | 0.3 | 1 | 2 | 1028 | 0.00 | 2.5 | 5.58 |
| 12/04/2021 22:01 | NM | NM | 0.3 | 1 | 2 | 1029 | 0.00 | 1.6 | 5.56 |
| 12/04/2021 23:01 | NM | NM | 0.4 | 1 | 2 | 1029 | 0.00 | 0.3 | 5.51 |
| 13/04/2021 00:01 | NM | NM | 0.4 | 1 | 2 | 1029 | 0.00 | -0.1 | 5.44 |
| 13/04/2021 01:01 | NM | NM | 0.4 | 1 | 2 | 1029 | -0.01 | -1.1 | 5.42 |
| 13/04/2021 02:01 | NM | NM | 0.4 | 1 | 2 | 1029 | -0.01 | -1.4 | 5.42 |
| 13/04/2021 03:01 | NM | NM | 0.5 | 1 | 2 | 1029 | -0.01 | -2.3 | 5.46 |
| 13/04/2021 04:01 | NM | NM | 0.7 | 1 | 2 | 1029 | 0.00 | -2.2 | 5.51 |
| 13/04/2021 05:01 | NM | NM | 0.9 | 1 | 2 | 1029 | 0.00 | -2.4 | 5.54 |
| 13/04/2021 06:01 | NM | NM | 1.1 | 1 | 2 | 1030 | -0.01 | -1.8 | 5.56 |
| 13/04/2021 07:01 | NM | NM | 1.2 | 1 | 2 | 1030 | 0.00 | 2.2 | 5.58 |
| 13/04/2021 08:01 | NM | NM | 1.3 | 1 | 2 | 1030 | -0.01 | 5.7 | 5.59 |
| 13/04/2021 09:01 | NM | NM | 1.2 | 1 | 3 | 1030 | -0.01 | 8.7 | 5.59 |
| 13/04/2021 10:01 | NM | NM | 1.0 | 1 | 3 | 1030 | -0.01 | 9.8 | 5.58 |
| 13/04/2021 11:01 | NM | NM | 1.0 | 1 | 3 | 1030 | -0.01 | 10.4 | 5.54 |
| 13/04/2021 12:01 | NM | NM | 0.9 | 1 | 3 | 1029 | -0.01 | 10.2 | 5.47 |
| 13/04/2021 13:01 | NM | NM | 0.8 | 1 | 3 | 1029 | 0.00 | 10.7 | 5.44 |
| 13/04/2021 14:01 | NM | NM | 0.8 | 1 | 3 | 1029 | -0.01 | 10.8 | 5.45 |
| 13/04/2021 15:01 | NM | NM | 0.2 | 1 | 4 | 1028 | -0.02 | 10.8 | 5.47 |
| 13/04/2021 16:01 | NM | NM | 0.2 | 1 | 3 | 1028 | 0.00 | 9.3 | 5.51 |
| 13/04/2021 17:01 | NM | NM | 0.2 | 1 | 4 | 1028 | 0.00 | 8.9 | 5.55 |
| 13/04/2021 18:01 | NM | NM | 0.2 | 1 | 3 | 1029 | -0.01 | 9.0 | 5.57 |
| 13/04/2021 19:01 | NM | NM | 0.2 | 1 | 3 | 1029 | 0.00 | 8.1 | 5.58 |
| 13/04/2021 20:01 | NM | NM | 0.2 | 1 | 3 | 1029 | 0.00 | 6.0 | 5.59 |
| 13/04/2021 21:01 | NM | NM | 0.2 | 1 | 3 | 1030 | 0.00 | 4.3 | 5.60 |
| 13/04/2021 22:01 | NM | NM | 0.2 | 1 | 3 | 1030 | 0.00 | 3.9 | 5.59 |
| 13/04/2021 23:01 | NM | NM | 0.2 | 1 | 3 | 1029 | 0.00 | 1.9 | 5.55 |
| 14/04/2021 00:01 | NM | NM | 0.2 | 1 | 3 | 1029 | -0.01 | 2.3 | 5.49 |
| 14/04/2021 01:01 | NM | NM | 0.2 | 1 | 3 | 1029 | -0.01 | 2.9 | 5.44 |
| 14/04/2021 02:01 | NM | NM | 0.2 | 1 | 2 | 1029 | 0.00 | 2.5 | 5.44 |
| 14/04/2021 03:01 | NM | NM | 0.2 | 1 | 2 | 1029 | -0.01 | 2.7 | 5.45 |
| 14/04/2021 04:01 | NM | NM | 0.2 | 1 | 2 | 1029 | -0.01 | 3.0 | 5.50 |
| 14/04/2021 05:01 | NM | NM | 0.2 | 1 | 2 | 1029 | -0.01 | 3.3 | 5.53 |
| 14/04/2021 06:01 | NM | NM | 0.2 | 1 | 2 | 1030 | -0.01 | 2.9 | 5.56 |
| 14/04/2021 07:01 | NM | NM | 0.2 | 1 | 2 | 1030 | -0.01 | 4.6 | 5.58 |
| 14/04/2021 08:01 | NM | NM | 0.2 | 1 | 2 | 1030 | 0.00 | 7.2 | 5.59 |
| 14/04/2021 09:01 | NM | NM | 0.2 | 1 | 2 | 1030 | 0.00 | 8.3 | 5.60 |
| 14/04/2021 10:01 | NM | NM | 0.2 | 1 | 2 | 1030 | -0.01 | 9.6 | 5.60 |
| 14/04/2021 11:01 | NM | NM | 0.2 | 1 | 2 | 1030 | -0.01 | 10.1 | 5.57 |
| 14/04/2021 12:01 | NM | NM | 0.2 | 1 | 3 | 1030 | -0.02 | 10.7 | 5.52 |
| 14/04/2021 13:01 | NM | NM | 0.2 | 1 | 3 | 1030 | -0.01 | 8.6 | 5.47 |
| 14/04/2021 14:01 | NM | NM | 0.2 | 1 | 3 | 1030 | 0.00 | 8.0 | 5.46 |
| 14/04/2021 15:01 | NM | NM | 0.2 | 1 | 3 | 1030 | 0.00 | 7.9 | 5.46 |
| 14/04/2021 16:01 | NM | NM | 0.2 | 1 | 3 | 1029 | -0.01 | 8.0 | 5.50 |
| 14/04/2021 17:01 | NM | NM | 0.2 | 1 | 3 | 1029 | -0.01 | 7.7 | 5.54 |
| 14/04/2021 18:01 | NM | NM | 0.2 | 1 | 3 | 1029 | 0.00 | 6.3 | 5.56 |
| 14/04/2021 19:01 | NM | NM | 0.2 | 1 | 3 | 1030 | -0.02 | 5.8 | 5.58 |
| 14/04/2021 20:01 | NM | NM | 0.2 | 1 | 3 | 1030 | 0.00 | 5.4 | 5.60 |
| 14/04/2021 21:01 | NM | NM | 0.2 | 1 | 3 | 1030 | -0.01 | 5.4 | 5.60 |
| 14/04/2021 22:01 | NM | NM | 0.2 | 1 | 2 | 1030 | -0.01 | 4.1 | 5.60 |
| 14/04/2021 23:01 | NM | NM | 0.2 | 1 | 2 | 1030 | 0.00 | 2.6 | 5.58 |
| 15/04/2021 00:01 | NM | NM | 0.2 | 1 | 2 | 1030 | 0.00 | 1.8 | 5.53 |
| 15/04/2021 01:01 | NM | NM | 0.2 | 1 | 2 | 1030 | 0.00 | 1.2 | 5.48 |
| 15/04/2021 02:01 | NM | NM | 0.2 | 1 | 2 | 1030 | 0.00 | 0.5 | 5.46 |
| 15/04/2021 03:01 | NM | NM | 0.2 | 1 | 2 | 1030 | 0.00 | 0.7 | 5.46 |
| 15/04/2021 04:01 | NM | NM | 0.2 | 1 | 2 | 1030 | 0.00 | 0.0 | 5.48 |
| 15/04/2021 05:01 | NM | NM | 0.2 | 1 | 2 | 1030 | 0.00 | 0.2 | 5.53 |
| 15/04/2021 06:01 | NM | NM | 0.2 | 1 | 2 | 1031 | 0.02 | 1.2 | 5.56 |
| 15/04/2021 07:01 | NM | NM | 0.2 | 1 | 2 | 1031 | 0.01 | 3.6 | 5.58 |
| 15/04/2021 08:01 | NM | NM | 0.2 | 1 | 1 | 1031 | 0.00 | 6.1 | 5.59 |
| 15/04/2021 09:01 | NM | NM | 0.2 | 1 | 1 | 1031 | 0.02 | 6.9 | 5.60 |
| 15/04/2021 10:01 | NM | NM | 0.2 | 1 | 1 | 1031 | 0.01 | 7.4 | 5.61 |
| 15/04/2021 11:01 | NM | NM | 0.2 | 1 | 1 | 1030 | -0.01 | 8.5 | 5.59 |
| 15/04/2021 12:01 | NM | NM | 0.2 | 1 | 1 | 1030 | 0.01 | 7.7 | 5.55 |
| 15/04/2021 13:01 | NM | NM | 0.2 | 1 | 1 | 1030 | -0.01 | 9.0 | 5.51 |
| 15/04/2021 14:01 | NM | NM | 0.2 | 1 | 2 | 1029 | 0.00 | 7.5 | 5.48 |

| Date and Time | $CH_4$ % v/v | $CO_2$ % v/v | $O_2$ % v/v | $H_2S$ ppm/v | CO ppm/v | Atmospheric Pressure mbar | Flow Ltr/hr | Temperature °C | Water Level mbgl |
|---|---|---|---|---|---|---|---|---|---|
| 15/04/2021 15:01 | NM | NM | 0.2 | 1 | 2 | 1029 | 0.00 | 7.5 | 5.48 |
| 15/04/2021 16:01 | NM | NM | 0.2 | 1 | 2 | 1029 | 0.00 | 7.5 | 5.49 |
| 15/04/2021 17:01 | NM | NM | 0.2 | 1 | 2 | 1029 | -0.01 | 7.6 | 5.53 |
| 15/04/2021 18:01 | NM | NM | 0.2 | 1 | 2 | 1029 | 0.00 | 6.6 | 5.56 |
| 15/04/2021 19:01 | NM | NM | 0.2 | 1 | 2 | 1029 | 0.00 | 6.3 | 5.58 |
| 15/04/2021 20:01 | NM | NM | 0.2 | 1 | 2 | 1029 | 0.00 | 4.6 | 5.60 |
| 15/04/2021 21:01 | NM | NM | 0.2 | 1 | 2 | 1029 | 0.01 | 3.5 | 5.61 |
| 15/04/2021 22:01 | NM | NM | 0.2 | 1 | 2 | 1029 | 0.01 | 2.6 | 5.61 |
| 15/04/2021 23:01 | NM | NM | 0.2 | 1 | 2 | 1029 | 0.00 | 1.2 | 5.61 |
| 16/04/2021 00:01 | NM | NM | 0.2 | 1 | 2 | 1029 | 0.00 | 0.8 | 5.58 |
| 16/04/2021 01:01 | NM | NM | 0.2 | 1 | 2 | 1028 | 0.01 | 0.5 | 5.53 |
| 16/04/2021 02:01 | NM | NM | 0.2 | 1 | 2 | 1028 | 0.00 | 0.0 | 5.50 |
| 16/04/2021 03:01 | NM | NM | 0.2 | 1 | 1 | 1028 | 0.00 | 0.2 | 5.49 |
| 16/04/2021 04:01 | NM | NM | 0.2 | 1 | 1 | 1028 | 0.01 | -1.2 | 5.50 |
| 16/04/2021 05:01 | NM | NM | 0.2 | 1 | 1 | 1028 | 0.00 | -1.0 | 5.54 |
| 16/04/2021 06:01 | NM | NM | 0.2 | 1 | 1 | 1029 | 0.00 | -1.5 | 5.57 |
| 16/04/2021 07:01 | NM | NM | 0.2 | 1 | 1 | 1029 | 0.00 | 2.7 | 5.60 |
| 16/04/2021 08:01 | NM | NM | 0.2 | 1 | 1 | 1029 | 0.00 | 5.4 | 5.61 |
| 16/04/2021 09:01 | NM | NM | 0.2 | 2 | 1 | 1029 | 0.01 | 6.0 | 5.62 |
| 16/04/2021 10:01 | NM | NM | 0.2 | 2 | 2 | 1029 | 0.01 | 7.8 | 5.63 |
| 16/04/2021 11:01 | NM | NM | 0.2 | 2 | 2 | 1028 | -0.01 | 9.6 | 5.63 |
| 16/04/2021 12:01 | NM | NM | 0.2 | 2 | 1 | 1028 | -0.01 | 9.3 | 5.61 |
| 16/04/2021 13:01 | NM | NM | 0.2 | 2 | 2 | 1028 | 0.00 | 10.3 | 5.57 |
| 16/04/2021 14:01 | NM | NM | 0.2 | 2 | 2 | 1027 | 0.00 | 9.4 | 5.52 |
| 16/04/2021 15:01 | NM | NM | 0.2 | 2 | 2 | 1027 | 0.00 | 9.6 | 5.51 |
| 16/04/2021 16:01 | NM | NM | 0.2 | 2 | 3 | 1027 | 0.00 | 9.7 | 5.51 |
| 16/04/2021 17:01 | NM | NM | 0.2 | 2 | 3 | 1027 | 0.00 | 8.9 | 5.54 |
| 16/04/2021 18:01 | NM | NM | 0.2 | 1 | 3 | 1027 | 0.00 | 7.9 | 5.57 |
| 16/04/2021 19:01 | NM | NM | 0.2 | 1 | 3 | 1027 | 0.00 | 5.8 | 5.60 |
| 16/04/2021 20:01 | NM | NM | 0.2 | 1 | 3 | 1027 | 0.00 | 5.2 | 5.62 |
| 16/04/2021 21:01 | NM | NM | 0.2 | 1 | 3 | 1028 | 0.00 | 4.1 | 5.63 |
| 16/04/2021 22:01 | NM | NM | 0.2 | 0 | 3 | 1028 | 0.00 | 2.5 | 5.63 |
| 16/04/2021 23:01 | NM | NM | 0.2 | 2 | 3 | 1028 | 0.00 | 2.1 | 5.63 |
| 17/04/2021 00:01 | NM | NM | 0.2 | 1 | 3 | 1028 | 0.00 | 0.9 | 5.62 |
| 17/04/2021 01:01 | NM | NM | 0.2 | 2 | 2 | 1027 | 0.00 | 0.7 | 5.58 |
| 17/04/2021 02:01 | NM | NM | 0.2 | 2 | 2 | 1027 | 0.00 | 0.0 | 5.54 |
| 17/04/2021 03:01 | NM | NM | 0.2 | 2 | 2 | 1027 | 0.00 | -0.7 | 5.52 |
| 17/04/2021 04:01 | NM | NM | 0.2 | 2 | 2 | 1027 | 0.00 | -0.4 | 5.52 |
| 17/04/2021 05:01 | NM | NM | 0.2 | 2 | 2 | 1027 | -0.01 | -1.2 | 5.54 |
| 17/04/2021 06:01 | NM | NM | 0.2 | 2 | 2 | 1027 | 0.01 | -0.4 | 5.58 |
| 17/04/2021 07:01 | NM | NM | 0.2 | 2 | 2 | 1027 | 0.01 | 3.3 | 5.61 |
| 17/04/2021 08:01 | NM | NM | 0.2 | 2 | 2 | 1027 | -0.01 | 6.4 | 5.62 |
| 17/04/2021 09:01 | NM | NM | 0.2 | 2 | 2 | 1027 | 0.02 | 8.0 | 5.63 |
| 17/04/2021 10:01 | NM | NM | 0.2 | 2 | 1 | 1027 | 0.01 | 9.6 | 5.64 |
| 17/04/2021 11:01 | NM | NM | 0.2 | 2 | 1 | 1026 | 0.00 | 10.3 | 5.64 |
| 17/04/2021 12:01 | NM | NM | 0.2 | 2 | 1 | 1026 | -0.01 | 11.1 | 5.64 |
| 17/04/2021 13:01 | NM | NM | 0.2 | 2 | 1 | 1025 | 0.01 | 11.1 | 5.61 |
| 17/04/2021 14:01 | NM | NM | 0.2 | 2 | 1 | 1025 | 0.00 | 11.0 | 5.56 |
| 17/04/2021 15:01 | NM | NM | 0.2 | 2 | 1 | 1024 | 0.00 | 11.1 | 5.53 |
| 17/04/2021 16:01 | NM | NM | 0.2 | 2 | 1 | 1024 | 0.00 | 10.1 | 5.53 |
| 17/04/2021 17:01 | NM | NM | 0.2 | 2 | 1 | 1024 | 0.00 | 9.5 | 5.54 |
| 17/04/2021 18:01 | NM | NM | 0.2 | 2 | 1 | 1024 | 0.00 | 7.6 | 5.58 |
| 17/04/2021 19:01 | NM | NM | 0.2 | 2 | 1 | 1024 | -0.01 | 6.8 | 5.61 |
| 17/04/2021 20:01 | NM | NM | 0.2 | 2 | 1 | 1024 | 0.00 | 5.5 | 5.62 |
| 17/04/2021 21:01 | NM | NM | 0.2 | 2 | 1 | 1024 | 0.00 | 4.1 | 5.64 |
| 17/04/2021 22:01 | NM | NM | 0.2 | 2 | 1 | 1024 | 0.00 | 3.2 | 5.64 |
| 17/04/2021 23:01 | NM | NM | 0.2 | 2 | 1 | 1024 | 0.00 | 2.3 | 5.65 |
| 18/04/2021 00:01 | NM | NM | 0.2 | 2 | 1 | 1024 | -0.01 | 2.5 | 5.64 |
| 18/04/2021 01:01 | NM | NM | 0.2 | 2 | 1 | 1023 | 0.00 | 2.6 | 5.62 |
| 18/04/2021 02:01 | NM | NM | 0.2 | 2 | 1 | 1023 | 0.00 | 1.0 | 5.58 |
| 18/04/2021 03:01 | NM | NM | 0.2 | 2 | 1 | 1023 | -0.01 | 0.6 | 5.55 |
| 18/04/2021 04:01 | NM | NM | 0.2 | 2 | 1 | 1023 | 0.00 | 0.3 | 5.54 |
| 18/04/2021 05:01 | NM | NM | 0.2 | 2 | 1 | 1023 | -0.01 | -0.8 | 5.55 |
| 18/04/2021 06:01 | NM | NM | 0.2 | 2 | 1 | 1023 | 0.00 | 0.2 | 5.59 |

# GGS Time Series Data

Experts in Continuous Monitoring

| | | | |
|---|---|---|---|
| **Project Ref:** | GGS2440 | | |
| **Location:** | Broadmarsh Open Space, Harts Farm Way | | |
| **Borehole ref:** | RO106 | | |
| **Sentinel ID:** | #54 | Days of monitoring: | 19 |
| **Start Date:** | 23/03/2021 15:01 | Monitoring Frequency (mins): | 60 |
| **End Date:** | 12/04/2021 00:01 | Total samples taken: | 466 |

**Minimum, Maximum and Range Table**

| | $CH_4$ | $CO_2$ | $O_2$ | $H_2S$ | CO | Atmospheric Pressure | Flow | Temperature | Water Level |
|---|---|---|---|---|---|---|---|---|---|
| **Minimum** | 0.0 | 0.0 | 0.0 | 0 | 0 | 1006 | -0.05 | -1.2 | 10.18 |
| **Maximum** | 54.6 | 22.9 | 3.6 | 1 | 4 | 1030 | 0.32 | 21.7 | 10.53 |
| **Range** | 54.6 | 22.9 | 3.6 | 1 | 4 | 24 | 0.37 | 22.9 | 0.34 |

| Date and Time | $CH_4$ % v/v | $CO_2$ % v/v | $O_2$ % v/v | $H_2S$ ppm/v | CO ppm/v | Atmospheric Pressure mbar | Flow Ltr/hr | Temperature °C | Water Level mbgl |
|---|---|---|---|---|---|---|---|---|---|
| 23/03/2021 15:01 | 23.0 | 9.9 | 3.6 | 0 | 4 | 1020 | 0.13 | 12.2 | 10.19 |
| 23/03/2021 16:01 | 25.2 | 11.2 | 1.9 | 0 | 2 | 1020 | 0.12 | 12.5 | 10.19 |
| 23/03/2021 17:01 | 26.0 | 11.2 | 1.8 | 0 | 2 | 1019 | 0.14 | 12.0 | 10.19 |
| 23/03/2021 18:01 | 26.0 | 11.2 | 1.7 | 0 | 2 | 1019 | 0.06 | 10.6 | 10.19 |
| 23/03/2021 19:01 | 26.5 | 11.6 | 1.6 | 0 | 2 | 1020 | 0.12 | 8.9 | 10.19 |
| 23/03/2021 20:01 | 26.4 | 11.8 | 1.5 | 1 | 1 | 1020 | 0.15 | 7.6 | 10.19 |
| 23/03/2021 21:01 | 26.2 | 11.9 | 1.4 | 1 | 1 | 1020 | 0.12 | 6.8 | 10.18 |
| 23/03/2021 22:01 | 26.5 | 12.3 | 1.3 | 1 | 1 | 1020 | 0.14 | 6.2 | 10.19 |
| 23/03/2021 23:01 | 27.2 | 12.5 | 1.1 | 1 | 1 | 1020 | 0.14 | 5.2 | 10.19 |
| 24/03/2021 00:01 | 27.4 | 12.9 | 1.0 | 1 | 1 | 1020 | 0.18 | 4.7 | 10.19 |
| 24/03/2021 01:01 | 27.4 | 13.0 | 0.9 | 1 | 1 | 1019 | 0.18 | 4.3 | 10.20 |
| 24/03/2021 02:01 | 27.7 | 13.1 | 0.8 | 1 | 1 | 1019 | 0.16 | 3.6 | 10.20 |
| 24/03/2021 03:01 | 28.0 | 13.5 | 0.7 | 1 | 1 | 1019 | 0.19 | 3.1 | 10.20 |
| 24/03/2021 04:01 | 28.7 | 13.8 | 0.7 | 1 | 1 | 1018 | 0.17 | 2.1 | 10.19 |
| 24/03/2021 05:01 | 28.7 | 14.2 | 0.6 | 1 | 1 | 1018 | 0.19 | 1.5 | 10.20 |
| 24/03/2021 06:01 | 29.2 | 14.4 | 0.5 | 1 | 0 | 1018 | 0.07 | 0.6 | 10.19 |
| 24/03/2021 07:01 | 29.4 | 14.6 | 0.5 | 1 | 0 | 1018 | 0.14 | 1.6 | 10.20 |
| 24/03/2021 08:01 | 29.6 | 14.6 | 0.4 | 1 | 0 | 1019 | 0.11 | 4.6 | 10.21 |
| 24/03/2021 09:01 | 29.6 | 14.5 | 0.4 | 1 | 0 | 1019 | 0.14 | 8.5 | 10.22 |
| 24/03/2021 10:01 | 30.2 | 14.7 | 0.4 | 1 | 0 | 1019 | 0.10 | 10.0 | 10.22 |
| 24/03/2021 11:01 | 29.6 | 14.4 | 0.4 | 1 | 0 | 1018 | 0.13 | 11.1 | 10.22 |
| 24/03/2021 12:01 | 29.7 | 14.2 | 0.4 | 0 | 0 | 1018 | 0.15 | 12.3 | 10.22 |
| 24/03/2021 13:01 | 29.4 | 14.0 | 0.4 | 0 | 0 | 1018 | 0.15 | 12.6 | 10.23 |
| 24/03/2021 14:01 | 29.8 | 13.9 | 0.3 | 0 | 0 | 1017 | 0.13 | 12.0 | 10.22 |
| 24/03/2021 15:01 | 29.8 | 13.9 | 0.3 | 0 | 0 | 1017 | 0.04 | 12.2 | 10.23 |
| 24/03/2021 16:01 | 30.0 | 13.9 | 0.3 | 0 | 0 | 1017 | 0.09 | 12.2 | 10.24 |
| 24/03/2021 17:01 | 30.3 | 14.2 | 0.3 | 0 | 0 | 1017 | 0.16 | 12.2 | 10.24 |
| 24/03/2021 18:01 | 31.5 | 14.3 | 0.3 | 0 | 0 | 1017 | 0.08 | 11.8 | 10.24 |
| 24/03/2021 19:01 | 31.0 | 14.4 | 0.2 | 0 | 0 | 1017 | 0.12 | 10.3 | 10.24 |
| 24/03/2021 20:01 | 31.1 | 14.5 | 0.2 | 1 | 0 | 1018 | 0.11 | 9.4 | 10.24 |
| 24/03/2021 21:01 | 30.9 | 14.6 | 0.2 | 1 | 0 | 1018 | 0.16 | 8.6 | 10.22 |
| 24/03/2021 22:01 | 30.7 | 14.2 | 0.2 | 1 | 0 | 1017 | 0.15 | 8.9 | 10.22 |
| 24/03/2021 23:01 | 30.6 | 14.4 | 0.2 | 0 | 0 | 1017 | 0.09 | 9.0 | 10.22 |
| 25/03/2021 00:01 | 30.3 | 14.4 | 0.2 | 1 | 0 | 1017 | 0.16 | 8.2 | 10.21 |
| 25/03/2021 01:01 | 30.4 | 14.2 | 0.2 | 1 | 0 | 1017 | 0.17 | 7.3 | 10.22 |
| 25/03/2021 02:01 | 30.6 | 14.5 | 0.2 | 1 | 0 | 1017 | 0.16 | 6.8 | 10.23 |
| 25/03/2021 03:01 | 30.4 | 14.4 | 0.2 | 1 | 0 | 1017 | 0.20 | 5.8 | 10.24 |
| 25/03/2021 04:01 | 30.3 | 14.4 | 0.1 | 1 | 0 | 1017 | 0.13 | 4.6 | 10.25 |
| 25/03/2021 05:01 | 30.4 | 14.7 | 0.1 | 1 | 0 | 1017 | 0.17 | 4.3 | 10.25 |
| 25/03/2021 06:01 | 30.2 | 14.6 | 0.1 | 1 | 0 | 1017 | 0.15 | 3.4 | 10.25 |
| 25/03/2021 07:01 | 30.4 | 14.9 | 0.1 | 1 | 0 | 1017 | 0.13 | 5.1 | 10.26 |
| 25/03/2021 08:01 | 30.0 | 14.4 | 0.1 | 1 | 0 | 1017 | 0.12 | 7.2 | 10.26 |
| 25/03/2021 09:01 | 30.5 | 14.4 | 0.1 | 1 | 0 | 1017 | 0.15 | 9.3 | 10.26 |
| 25/03/2021 10:01 | 29.9 | 13.9 | 0.1 | 1 | 0 | 1017 | 0.20 | 11.2 | 10.24 |
| 25/03/2021 11:01 | 32.2 | 14.9 | 0.1 | 0 | 0 | 1017 | 0.16 | 11.9 | 10.24 |
| 25/03/2021 12:01 | 34.7 | 15.7 | 0.1 | 0 | 0 | 1016 | 0.17 | 12.2 | 10.24 |
| 25/03/2021 13:01 | 37.9 | 17.0 | 0.1 | 0 | 0 | 1016 | 0.20 | 12.2 | 10.24 |
| 25/03/2021 14:01 | 40.4 | 18.0 | 0.1 | 0 | 0 | 1015 | 0.19 | 10.8 | 10.24 |
| 25/03/2021 15:01 | 42.1 | 18.6 | 0.1 | 0 | 0 | 1015 | 0.23 | 10.4 | 10.24 |
| 25/03/2021 16:01 | 43.5 | 19.2 | 0.1 | 0 | 0 | 1014 | 0.23 | 11.1 | 10.25 |
| 25/03/2021 17:01 | 45.0 | 20.0 | 0.1 | 0 | 0 | 1014 | 0.25 | 10.7 | 10.25 |
| 25/03/2021 18:01 | 45.3 | 20.1 | 0.1 | 0 | 0 | 1014 | 0.20 | 10.4 | 10.25 |
| 25/03/2021 19:01 | 45.6 | 20.2 | 0.1 | 0 | 0 | 1014 | 0.22 | 9.5 | 10.25 |
| 25/03/2021 20:01 | 46.1 | 20.4 | 0.1 | 0 | 0 | 1014 | 0.18 | 9.2 | 10.24 |
| 25/03/2021 21:01 | 46.3 | 20.5 | 0.1 | 1 | 0 | 1014 | 0.22 | 9.0 | 10.23 |
| 25/03/2021 22:01 | 47.0 | 21.1 | 0.1 | 1 | 0 | 1013 | 0.25 | 9.8 | 10.22 |
| 25/03/2021 23:01 | 47.1 | 20.7 | 0.1 | 1 | 0 | 1013 | 0.21 | 9.6 | 10.21 |
| 26/03/2021 00:01 | 47.1 | 20.8 | 0.1 | 1 | 0 | 1012 | 0.24 | 9.6 | 10.21 |
| 26/03/2021 01:01 | 47.6 | 21.2 | 0.1 | 1 | 0 | 1012 | 0.30 | 9.4 | 10.21 |
| 26/03/2021 02:01 | 48.4 | 21.6 | 0.1 | 1 | 0 | 1011 | 0.24 | 9.6 | 10.21 |
| 26/03/2021 03:01 | 48.5 | 21.3 | 0.1 | 1 | 0 | 1011 | 0.29 | 9.8 | 10.21 |
| 26/03/2021 04:01 | 48.5 | 21.5 | 0.1 | 1 | 0 | 1010 | 0.25 | 9.5 | 10.21 |
| 26/03/2021 05:01 | 48.2 | 21.2 | 0.1 | 1 | 0 | 1009 | 0.29 | 9.3 | 10.21 |
| 26/03/2021 06:01 | 49.0 | 21.8 | 0.1 | 1 | 0 | 1009 | 0.24 | 9.1 | 10.22 |
| 26/03/2021 07:01 | 49.5 | 21.9 | 0.1 | 1 | 0 | 1008 | 0.23 | 9.5 | 10.22 |
| 26/03/2021 08:01 | 49.2 | 21.8 | 0.1 | 1 | 0 | 1008 | 0.25 | 9.9 | 10.22 |
| 26/03/2021 09:01 | 49.3 | 21.7 | 0.1 | 1 | 0 | 1008 | 0.29 | 10.8 | 10.21 |
| 26/03/2021 10:01 | 50.1 | 22.1 | 0.1 | 0 | 0 | 1008 | 0.26 | 10.9 | 10.21 |
| 26/03/2021 11:01 | 49.9 | 21.9 | 0.1 | 0 | 0 | 1007 | 0.26 | 10.9 | 10.19 |
| 26/03/2021 12:01 | 49.6 | 21.7 | 0.1 | 0 | 0 | 1006 | 0.22 | 11.9 | 10.19 |
| 26/03/2021 13:01 | 50.2 | 22.0 | 0.1 | 0 | 0 | 1006 | 0.23 | 12.4 | 10.19 |
| 26/03/2021 14:01 | 49.6 | 21.3 | 0.1 | 0 | 0 | 1006 | 0.31 | 8.1 | 10.20 |
| 26/03/2021 15:01 | 50.3 | 22.0 | 0.1 | 0 | 0 | 1006 | 0.27 | 8.6 | 10.21 |
| 26/03/2021 16:01 | 50.0 | 22.0 | 0.1 | 0 | 0 | 1006 | 0.31 | 8.3 | 10.23 |
| 26/03/2021 17:01 | 50.6 | 22.3 | 0.1 | 0 | 0 | 1006 | 0.23 | 8.4 | 10.24 |
| 26/03/2021 18:01 | 50.1 | 22.0 | 0.1 | 0 | 0 | 1007 | 0.20 | 8.1 | 10.25 |
| 26/03/2021 19:01 | 50.5 | 22.6 | 0.1 | 0 | 0 | 1007 | 0.12 | 7.3 | 10.26 |
| 26/03/2021 20:01 | 50.4 | 22.6 | 0.1 | 1 | 0 | 1008 | 0.17 | 6.4 | 10.27 |
| 26/03/2021 21:01 | 51.0 | 22.9 | 0.1 | 1 | 0 | 1009 | 0.16 | 4.7 | 10.27 |
| 26/03/2021 22:01 | 50.0 | 22.9 | 0.1 | 1 | 0 | 1009 | 0.11 | 5.1 | 10.26 |
| 26/03/2021 23:01 | 49.6 | 22.6 | 0.1 | 1 | 0 | 1009 | 0.16 | 5.2 | 10.25 |
| 27/03/2021 00:01 | 49.0 | 22.3 | 0.1 | 1 | 0 | 1010 | 0.10 | 5.1 | 10.25 |
| 27/03/2021 01:01 | 47.7 | 21.5 | 0.1 | 1 | 0 | 1011 | 0.19 | 4.4 | 10.25 |
| 27/03/2021 02:01 | 46.7 | 21.6 | 0.1 | 1 | 0 | 1011 | 0.19 | 4.1 | 10.26 |
| 27/03/2021 03:01 | 45.6 | 21.3 | 0.1 | 1 | 0 | 1012 | 0.09 | 4.4 | 10.28 |
| 27/03/2021 04:01 | 44.2 | 20.1 | 0.1 | 1 | 0 | 1013 | 0.13 | 4.0 | 10.29 |
| 27/03/2021 05:01 | 42.7 | 19.7 | 0.1 | 1 | 0 | 1014 | 0.14 | 3.7 | 10.31 |
| 27/03/2021 06:01 | 42.0 | 19.4 | 0.1 | 1 | 0 | 1015 | 0.21 | 3.4 | 10.32 |
| 27/03/2021 07:01 | 40.8 | 18.6 | 0.1 | 1 | 0 | 1016 | 0.07 | 4.5 | 10.35 |
| 27/03/2021 08:01 | 40.0 | 18.3 | 0.1 | 1 | 0 | 1017 | 0.17 | 5.8 | 10.36 |
| 27/03/2021 09:01 | 38.7 | 17.8 | 0.1 | 1 | 0 | 1018 | 0.12 | 6.9 | 10.36 |
| 27/03/2021 10:01 | 38.6 | 17.1 | 0.1 | 0 | 0 | 1018 | 0.10 | 8.2 | 10.35 |
| 27/03/2021 11:01 | 37.0 | 16.6 | 0.1 | 0 | 0 | 1019 | 0.10 | 9.2 | 10.34 |
| 27/03/2021 12:01 | 36.9 | 16.2 | 0.1 | 0 | 0 | 1020 | 0.10 | 9.9 | 10.33 |
| 27/03/2021 13:01 | 35.3 | 15.4 | 0.1 | 0 | 0 | 1020 | 0.17 | 9.6 | 10.32 |
| 27/03/2021 14:01 | 34.9 | 15.1 | 0.1 | 0 | 0 | 1020 | 0.19 | 10.2 | 10.32 |

| Date and Time | $CH_4$ % v/v | $CO_2$ % v/v | $O_2$ % v/v | $H_2S$ ppm/v | CO ppm/v | Atmospheric Pressure mbar | Flow Ltr/hr | Temperature °C | Water Level mbgl |
|---|---|---|---|---|---|---|---|---|---|
| 27/03/2021 15:01 | 33.6 | 14.7 | 0.1 | 0 | 0 | 1020 | 0.23 | 10.2 | 10.33 |
| 27/03/2021 16:01 | 33.3 | 14.3 | 0.1 | 0 | 0 | 1020 | 0.22 | 10.9 | 10.34 |
| 27/03/2021 17:01 | 32.4 | 13.9 | 0.1 | 0 | 0 | 1020 | 0.14 | 10.6 | 10.34 |
| 27/03/2021 18:01 | 31.9 | 13.8 | 0.1 | 0 | 0 | 1020 | 0.14 | 10.0 | 10.35 |
| 27/03/2021 19:01 | 31.4 | 13.7 | 0.1 | 0 | 0 | 1020 | 0.11 | 9.6 | 10.35 |
| 27/03/2021 20:01 | 30.3 | 13.4 | 0.1 | 0 | 0 | 1021 | 0.13 | 8.5 | 10.35 |
| 27/03/2021 21:01 | 30.4 | 13.6 | 0.1 | 0 | 0 | 1021 | 0.14 | 8.0 | 10.35 |
| 27/03/2021 22:01 | 31.0 | 13.5 | 0.1 | 1 | 0 | 1021 | 0.09 | 8.2 | 10.34 |
| 27/03/2021 23:01 | 30.7 | 13.6 | 0.1 | 1 | 0 | 1021 | 0.20 | 8.3 | 10.31 |
| 28/03/2021 00:01 | 30.5 | 13.8 | 0.1 | 1 | 0 | 1020 | 0.11 | 8.6 | 10.30 |
| 28/03/2021 01:01 | 31.5 | 14.2 | 0.1 | 1 | 0 | 1020 | 0.24 | 8.7 | 10.29 |
| 28/03/2021 02:01 | 32.5 | 14.7 | 0.1 | 1 | 0 | 1020 | 0.16 | 8.9 | 10.29 |
| 28/03/2021 03:01 | 33.0 | 15.0 | 0.1 | 1 | 0 | 1019 | 0.31 | 9.1 | 10.28 |
| 28/03/2021 04:01 | 34.8 | 16.2 | 0.1 | 1 | 0 | 1019 | 0.08 | 8.8 | 10.30 |
| 28/03/2021 05:01 | 37.7 | 17.6 | 0.1 | 1 | 0 | 1018 | 0.07 | 8.9 | 10.30 |
| 28/03/2021 06:01 | 40.7 | 19.5 | 0.1 | 1 | 0 | 1019 | 0.25 | 9.0 | 10.32 |
| 28/03/2021 07:01 | 41.4 | 19.9 | 0.1 | 1 | 0 | 1019 | 0.20 | 9.3 | 10.32 |
| 28/03/2021 08:01 | 42.3 | 19.8 | 0.1 | 1 | 0 | 1019 | 0.31 | 10.1 | 10.33 |
| 28/03/2021 09:01 | 42.2 | 19.7 | 0.1 | 1 | 0 | 1020 | 0.21 | 10.3 | 10.34 |
| 28/03/2021 10:01 | 42.8 | 19.8 | 0.1 | 1 | 0 | 1020 | 0.20 | 11.5 | 10.33 |
| 28/03/2021 11:01 | 42.4 | 19.3 | 0.1 | 0 | 0 | 1020 | 0.21 | 11.4 | 10.32 |
| 28/03/2021 12:01 | 42.6 | 19.1 | 0.0 | 0 | 0 | 1020 | 0.29 | 11.9 | 10.30 |
| 28/03/2021 13:01 | 42.0 | 18.4 | 0.0 | 0 | 0 | 1021 | 0.26 | 11.5 | 10.30 |
| 28/03/2021 14:01 | 42.0 | 18.4 | 0.0 | 0 | 0 | 1020 | 0.32 | 13.0 | 10.29 |
| 28/03/2021 15:01 | 43.2 | 18.8 | 0.0 | 0 | 0 | 1020 | 0.30 | 13.0 | 10.30 |
| 28/03/2021 16:01 | 44.1 | 19.3 | 0.1 | 0 | 0 | 1020 | 0.22 | 12.5 | 10.31 |
| 28/03/2021 17:01 | 44.3 | 19.1 | 0.1 | 0 | 0 | 1020 | 0.24 | 11.6 | 10.32 |
| 28/03/2021 18:01 | 45.7 | 19.9 | 0.1 | 0 | 0 | 1021 | 0.10 | 10.9 | 10.33 |
| 28/03/2021 19:01 | 46.2 | 20.2 | 0.1 | 0 | 0 | 1021 | 0.21 | 10.3 | 10.34 |
| 28/03/2021 20:01 | 46.3 | 20.4 | 0.1 | 0 | 0 | 1021 | 0.13 | 9.7 | 10.34 |
| 28/03/2021 21:01 | 46.4 | 20.5 | 0.1 | 0 | 0 | 1021 | 0.25 | 9.7 | 10.34 |
| 28/03/2021 22:01 | 47.0 | 20.8 | 0.1 | 1 | 0 | 1021 | 0.16 | 9.6 | 10.34 |
| 28/03/2021 23:01 | 46.5 | 20.4 | 0.1 | 1 | 0 | 1021 | 0.20 | 9.3 | 10.33 |
| 29/03/2021 00:01 | 47.0 | 20.5 | 0.1 | 1 | 0 | 1021 | 0.22 | 9.3 | 10.31 |
| 29/03/2021 01:01 | 46.6 | 20.2 | 0.1 | 1 | 0 | 1021 | 0.18 | 9.1 | 10.27 |
| 29/03/2021 02:01 | 45.9 | 19.9 | 0.1 | 1 | 0 | 1021 | 0.24 | 9.2 | 10.26 |
| 29/03/2021 03:01 | 47.1 | 20.6 | 0.1 | 1 | 0 | 1021 | 0.21 | 8.9 | 10.26 |
| 29/03/2021 04:01 | 46.9 | 20.2 | 0.1 | 1 | 0 | 1021 | 0.16 | 8.8 | 10.27 |
| 29/03/2021 05:01 | 47.3 | 20.1 | 0.1 | 1 | 0 | 1022 | 0.13 | 9.3 | 10.29 |
| 29/03/2021 06:01 | 46.8 | 20.0 | 0.1 | 1 | 0 | 1022 | 0.21 | 9.4 | 10.31 |
| 29/03/2021 07:01 | 48.1 | 20.0 | 0.1 | 1 | 0 | 1023 | 0.15 | 9.6 | 10.32 |
| 29/03/2021 08:01 | 47.4 | 20.0 | 0.1 | 1 | 0 | 1023 | 0.15 | 10.1 | 10.34 |
| 29/03/2021 09:01 | 48.4 | 20.5 | 0.1 | 0 | 0 | 1024 | 0.17 | 11.7 | 10.34 |
| 29/03/2021 10:01 | 48.2 | 20.4 | 0.0 | 0 | 0 | 1024 | 0.15 | 13.1 | 10.34 |
| 29/03/2021 11:01 | 48.3 | 20.0 | 0.0 | 0 | 0 | 1024 | 0.15 | 14.7 | 10.33 |
| 29/03/2021 12:01 | 47.1 | 19.1 | 0.0 | 0 | 0 | 1024 | 0.20 | 16.4 | 10.30 |
| 29/03/2021 13:01 | 46.8 | 18.8 | 0.1 | 0 | 0 | 1024 | 0.18 | 18.0 | 10.30 |
| 29/03/2021 14:01 | 45.5 | 17.6 | 0.1 | 0 | 0 | 1024 | 0.16 | 19.1 | 10.29 |
| 29/03/2021 15:01 | 45.8 | 17.9 | 0.1 | 0 | 0 | 1024 | 0.24 | 19.4 | 10.29 |
| 29/03/2021 16:01 | 44.8 | 17.5 | 0.1 | 0 | 0 | 1024 | 0.22 | 19.1 | 10.30 |
| 29/03/2021 17:01 | 45.0 | 17.7 | 0.1 | 0 | 0 | 1024 | 0.16 | 17.8 | 10.31 |
| 29/03/2021 18:01 | 44.6 | 17.7 | 0.1 | 0 | 0 | 1025 | 0.16 | 15.3 | 10.32 |
| 29/03/2021 19:01 | 45.2 | 18.3 | 0.1 | 0 | 0 | 1025 | 0.16 | 12.6 | 10.34 |
| 29/03/2021 20:01 | 45.1 | 18.8 | 0.1 | 0 | 0 | 1026 | 0.16 | 11.0 | 10.34 |
| 29/03/2021 21:01 | 45.1 | 18.9 | 0.1 | 0 | 0 | 1026 | 0.16 | 9.2 | 10.35 |
| 29/03/2021 22:01 | 45.1 | 19.0 | 0.1 | 1 | 0 | 1026 | 0.20 | 7.4 | 10.35 |
| 29/03/2021 23:01 | 45.2 | 19.4 | 0.1 | 1 | 0 | 1026 | 0.19 | 7.0 | 10.34 |
| 30/03/2021 00:01 | 45.2 | 19.5 | 0.1 | 1 | 0 | 1026 | 0.17 | 4.6 | 10.32 |
| 30/03/2021 01:01 | 45.2 | 19.3 | 0.1 | 1 | 0 | 1027 | 0.22 | 4.5 | 10.30 |
| 30/03/2021 02:01 | 45.4 | 19.3 | 0.1 | 1 | 0 | 1026 | 0.21 | 4.1 | 10.28 |
| 30/03/2021 03:01 | 45.3 | 19.3 | 0.1 | 1 | 0 | 1026 | 0.23 | 2.9 | 10.27 |
| 30/03/2021 04:01 | 46.2 | 19.7 | 0.1 | 1 | 0 | 1026 | 0.22 | 3.0 | 10.28 |
| 30/03/2021 05:01 | 46.6 | 19.9 | 0.1 | 1 | 0 | 1026 | 0.18 | 1.6 | 10.29 |
| 30/03/2021 06:01 | 47.1 | 20.3 | 0.1 | 1 | 0 | 1026 | 0.21 | 3.3 | 10.30 |
| 30/03/2021 07:01 | 47.2 | 20.1 | 0.0 | 1 | 0 | 1026 | 0.21 | 5.3 | 10.31 |
| 30/03/2021 08:01 | 47.8 | 20.6 | 0.0 | 1 | 0 | 1026 | 0.18 | 9.8 | 10.32 |
| 30/03/2021 09:01 | 47.9 | 19.7 | 0.0 | 0 | 0 | 1026 | 0.13 | 13.6 | 10.33 |
| 30/03/2021 10:01 | 48.0 | 19.8 | 0.0 | 0 | 0 | 1026 | 0.16 | 15.8 | 10.33 |
| 30/03/2021 11:01 | 48.3 | 19.4 | 0.0 | 0 | 0 | 1026 | 0.20 | 18.3 | 10.32 |
| 30/03/2021 12:01 | 47.8 | 18.6 | 0.1 | 0 | 0 | 1025 | 0.12 | 20.1 | 10.30 |
| 30/03/2021 13:01 | 47.2 | 18.0 | 0.1 | 0 | 0 | 1025 | 0.16 | 20.7 | 10.28 |
| 30/03/2021 14:01 | 46.4 | 17.2 | 0.1 | 0 | 0 | 1024 | 0.19 | 20.8 | 10.26 |
| 30/03/2021 15:01 | 45.7 | 16.3 | 0.1 | 0 | 0 | 1023 | 0.22 | 21.0 | 10.25 |
| 30/03/2021 16:01 | 46.2 | 15.9 | 0.1 | 0 | 0 | 1023 | 0.21 | 20.6 | 10.25 |
| 30/03/2021 17:01 | 45.7 | 15.2 | 0.1 | 0 | 0 | 1022 | 0.16 | 20.0 | 10.26 |
| 30/03/2021 18:01 | 45.3 | 15.6 | 0.1 | 0 | 0 | 1022 | 0.20 | 17.8 | 10.27 |
| 30/03/2021 19:01 | 46.1 | 16.9 | 0.1 | 0 | 0 | 1022 | 0.17 | 14.9 | 10.28 |
| 30/03/2021 20:01 | 47.1 | 18.0 | 0.1 | 0 | 0 | 1022 | 0.19 | 14.3 | 10.29 |
| 30/03/2021 21:01 | 48.2 | 18.9 | 0.1 | 0 | 0 | 1022 | 0.16 | 10.8 | 10.30 |
| 30/03/2021 22:01 | 48.6 | 19.5 | 0.1 | 0 | 0 | 1022 | 0.18 | 10.2 | 10.30 |
| 30/03/2021 23:01 | 49.0 | 20.3 | 0.1 | 0 | 0 | 1021 | 0.20 | 9.6 | 10.29 |
| 31/03/2021 00:01 | 0.0 | 14.4 | 0.1 | 0 | 0 | 1021 | 0.20 | 8.3 | 10.28 |
| 31/03/2021 01:01 | 0.0 | 14.4 | 0.1 | 1 | 0 | 1020 | 0.20 | 8.1 | 10.25 |
| 31/03/2021 02:01 | 0.0 | 14.4 | 0.1 | 1 | 0 | 1020 | 0.20 | 7.5 | 10.23 |
| 31/03/2021 03:01 | 0.0 | 14.4 | 0.1 | 1 | 0 | 1019 | 0.20 | 7.2 | 10.22 |
| 31/03/2021 04:01 | 0.0 | 14.4 | 0.1 | 1 | 0 | 1019 | 0.20 | 6.9 | 10.22 |
| 31/03/2021 05:01 | 0.0 | 14.4 | 0.1 | 1 | 0 | 1018 | 0.20 | 6.4 | 10.23 |
| 31/03/2021 06:01 | 0.0 | 14.4 | 0.1 | 1 | 0 | 1018 | 0.18 | 6.6 | 10.24 |
| 31/03/2021 07:01 | 0.0 | 14.4 | 0.1 | 1 | 0 | 1018 | 0.16 | 9.0 | 10.25 |
| 31/03/2021 08:01 | 50.4 | 20.9 | 0.1 | 1 | 0 | 1018 | 0.19 | 11.5 | 10.27 |
| 31/03/2021 09:01 | 51.0 | 20.8 | 0.1 | 0 | 0 | 1018 | 0.15 | 15.3 | 10.28 |
| 31/03/2021 10:01 | 50.6 | 20.5 | 0.1 | 0 | 0 | 1018 | 0.16 | 17.6 | 10.28 |
| 31/03/2021 11:01 | 49.6 | 19.3 | 0.1 | 0 | 0 | 1017 | 0.17 | 20.6 | 10.28 |
| 31/03/2021 12:01 | 49.7 | 19.3 | 0.1 | 0 | 0 | 1017 | 0.19 | 21.7 | 10.26 |
| 31/03/2021 13:01 | 49.4 | 19.0 | 0.1 | 0 | 0 | 1017 | 0.14 | 21.1 | 10.25 |
| 31/03/2021 14:01 | 49.2 | 19.0 | 0.1 | 0 | 0 | 1016 | 0.18 | 20.5 | 10.23 |
| 31/03/2021 15:01 | 49.0 | 19.4 | 0.1 | 0 | 0 | 1016 | 0.17 | 20.0 | 10.22 |
| 31/03/2021 16:01 | 48.8 | 20.1 | 0.1 | 0 | 0 | 1016 | 0.21 | 20.4 | 10.21 |
| 31/03/2021 17:01 | 48.8 | 18.9 | 0.2 | 0 | 0 | 1016 | 0.18 | 19.8 | 10.22 |
| 31/03/2021 18:01 | 49.5 | 19.1 | 0.2 | 0 | 0 | 1016 | 0.24 | 18.5 | 10.23 |
| 31/03/2021 19:01 | 49.1 | 18.9 | 0.2 | 0 | 0 | 1016 | 0.13 | 17.2 | 10.25 |
| 31/03/2021 20:01 | 0.0 | 12.9 | 0.2 | 0 | 0 | 1016 | 0.14 | 15.9 | 10.27 |
| 31/03/2021 21:01 | 0.0 | 14.4 | 0.2 | 0 | 0 | 1016 | 0.14 | 14.2 | 10.28 |
| 31/03/2021 22:01 | 0.0 | 13.7 | 0.2 | 0 | 0 | 1017 | 0.14 | 13.6 | 10.29 |
| 31/03/2021 23:01 | 0.0 | 14.4 | 0.2 | 0 | 0 | 1017 | 0.14 | 12.8 | 10.30 |
| 01/04/2021 00:01 | 0.0 | 14.4 | 0.1 | 0 | 0 | 1017 | 0.18 | 12.7 | 10.29 |
| 01/04/2021 01:01 | 0.0 | 14.4 | 0.1 | 0 | 0 | 1017 | 0.16 | 11.3 | 10.28 |
| 01/04/2021 02:01 | 0.0 | 12.5 | 0.1 | 1 | 0 | 1017 | 0.16 | 11.0 | 10.25 |
| 01/04/2021 03:01 | 0.0 | 14.4 | 0.1 | 1 | 0 | 1018 | 0.16 | 11.9 | 10.24 |
| 01/04/2021 04:01 | 48.9 | 21.0 | 0.1 | 1 | 0 | 1019 | 0.12 | 9.9 | 10.23 |
| 01/04/2021 05:01 | 0.0 | 14.4 | 0.1 | 1 | 0 | 1019 | 0.11 | 8.4 | 10.24 |
| 01/04/2021 06:01 | 0.0 | 14.4 | 0.1 | 1 | 0 | 1020 | 0.10 | 7.7 | 10.26 |
| 01/04/2021 07:01 | 0.0 | 14.4 | 0.2 | 1 | 0 | 1021 | 0.10 | 8.0 | 10.28 |
| 01/04/2021 08:01 | 0.0 | 0.0 | 0.2 | 1 | 0 | 1021 | 0.06 | 8.7 | 10.30 |

| Date and Time | $CH_4$ % v/v | $CO_2$ % v/v | $O_2$ % v/v | $H_2S$ ppm/v | CO ppm/v | Atmospheric Pressure mbar | Flow Ltr/hr | Temperature °C | Water Level mbgl |
|---|---|---|---|---|---|---|---|---|---|
| 01/04/2021 09:01 | 0.0 | 13.3 | 0.2 | 0 | 0 | 1022 | 0.11 | 9.6 | 10.31 |
| 01/04/2021 10:01 | 47.0 | 19.4 | 0.2 | 0 | 0 | 1022 | 0.08 | 10.4 | 10.32 |
| 01/04/2021 11:01 | 45.6 | 18.6 | 0.2 | 0 | 0 | 1023 | 0.14 | 11.8 | 10.33 |
| 01/04/2021 12:01 | 45.1 | 17.4 | 0.2 | 0 | 0 | 1023 | 0.11 | 13.2 | 10.33 |
| 01/04/2021 13:01 | 43.6 | 16.4 | 0.3 | 0 | 0 | 1023 | 0.08 | 13.7 | 10.31 |
| 01/04/2021 14:01 | 42.0 | 15.1 | 0.3 | 0 | 0 | 1023 | 0.15 | 13.9 | 10.29 |
| 01/04/2021 15:01 | 41.1 | 14.3 | 0.3 | 0 | 0 | 1023 | 0.09 | 11.4 | 10.28 |
| 01/04/2021 16:01 | 39.9 | 13.8 | 0.4 | 0 | 0 | 1023 | 0.07 | 10.8 | 10.27 |
| 01/04/2021 17:01 | 39.4 | 13.7 | 0.4 | 0 | 0 | 1023 | 0.07 | 9.9 | 10.27 |
| 01/04/2021 18:01 | 38.6 | 14.1 | 0.4 | 0 | 0 | 1024 | 0.04 | 8.6 | 10.28 |
| 01/04/2021 19:01 | 37.7 | 14.8 | 0.5 | 0 | 0 | 1024 | 0.05 | 7.2 | 10.31 |
| 01/04/2021 20:01 | 38.2 | 15.7 | 0.5 | 0 | 1 | 1025 | 0.03 | 6.3 | 10.32 |
| 01/04/2021 21:01 | 37.3 | 16.2 | 0.5 | 0 | 1 | 1025 | 0.05 | 5.5 | 10.34 |
| 01/04/2021 22:01 | 37.0 | 16.7 | 0.6 | 0 | 1 | 1026 | 0.12 | 5.7 | 10.35 |
| 01/04/2021 23:01 | 36.7 | 16.9 | 0.6 | 0 | 1 | 1026 | 0.06 | 5.6 | 10.36 |
| 02/04/2021 00:01 | 26.1 | 17.0 | 0.6 | 1 | 1 | 1026 | 0.09 | 5.1 | 10.36 |
| 02/04/2021 01:01 | 35.0 | 17.6 | 0.6 | 1 | 1 | 1026 | 0.10 | 5.1 | 10.36 |
| 02/04/2021 02:01 | 33.9 | 17.1 | 0.5 | 1 | 1 | 1026 | 0.11 | 5.3 | 10.34 |
| 02/04/2021 03:01 | 33.6 | 17.0 | 0.5 | 1 | 1 | 1026 | 0.14 | 5.1 | 10.32 |
| 02/04/2021 04:01 | 33.0 | 17.0 | 0.5 | 1 | 1 | 1025 | 0.10 | 5.2 | 10.30 |
| 02/04/2021 05:01 | 32.1 | 16.8 | 0.5 | 1 | 1 | 1025 | 0.03 | 5.2 | 10.30 |
| 02/04/2021 06:01 | 31.6 | 16.7 | 0.6 | 1 | 1 | 1026 | 0.00 | 5.3 | 10.31 |
| 02/04/2021 07:01 | 30.9 | 16.4 | 0.6 | 1 | 1 | 1026 | 0.02 | 5.6 | 10.33 |
| 02/04/2021 08:01 | 30.3 | 16.0 | 0.6 | 1 | 1 | 1027 | 0.02 | 5.9 | 10.35 |
| 02/04/2021 09:01 | 30.0 | 15.5 | 0.7 | 1 | 1 | 1027 | 0.08 | 6.3 | 10.36 |
| 02/04/2021 10:01 | 29.6 | 15.2 | 0.7 | 1 | 1 | 1028 | 0.03 | 6.8 | 10.37 |
| 02/04/2021 11:01 | 29.0 | 14.5 | 0.7 | 0 | 1 | 1028 | 0.08 | 7.4 | 10.37 |
| 02/04/2021 12:01 | 27.9 | 13.7 | 0.7 | 0 | 1 | 1028 | 0.06 | 8.1 | 10.37 |
| 02/04/2021 13:01 | 27.3 | 13.1 | 0.7 | 0 | 1 | 1027 | 0.09 | 9.8 | 10.37 |
| 02/04/2021 14:01 | 26.2 | 12.1 | 0.7 | 0 | 1 | 1027 | 0.11 | 9.3 | 10.35 |
| 02/04/2021 15:01 | 25.0 | 11.1 | 0.7 | 0 | 1 | 1027 | 0.09 | 9.8 | 10.34 |
| 02/04/2021 16:01 | 24.1 | 10.5 | 0.7 | 0 | 1 | 1027 | 0.03 | 7.9 | 10.32 |
| 02/04/2021 17:01 | 23.9 | 10.6 | 0.7 | 0 | 1 | 1027 | 0.06 | 7.3 | 10.32 |
| 02/04/2021 18:01 | 23.4 | 10.6 | 0.8 | 0 | 1 | 1028 | -0.01 | 7.2 | 10.33 |
| 02/04/2021 19:01 | 23.4 | 11.4 | 0.9 | 0 | 1 | 1028 | 0.02 | 7.2 | 10.35 |
| 02/04/2021 20:01 | 23.5 | 12.4 | 0.9 | 0 | 1 | 1028 | 0.04 | 6.9 | 10.36 |
| 02/04/2021 21:01 | 23.7 | 12.8 | 0.9 | 1 | 1 | 1028 | 0.04 | 7.0 | 10.37 |
| 02/04/2021 22:01 | 23.1 | 13.0 | 0.9 | 0 | 1 | 1028 | 0.02 | 6.9 | 10.38 |
| 02/04/2021 23:01 | 0.0 | 0.0 | 0.8 | 1 | 1 | 1028 | 0.08 | 5.3 | 10.38 |
| 03/04/2021 00:01 | 0.0 | 12.4 | 0.8 | 1 | 1 | 1028 | 0.11 | 5.7 | 10.39 |
| 03/04/2021 01:01 | 0.0 | 12.7 | 0.8 | 1 | 1 | 1028 | 0.13 | 4.9 | 10.39 |
| 03/04/2021 02:01 | 22.8 | 14.4 | 0.8 | 1 | 1 | 1028 | 0.09 | 5.5 | 10.38 |
| 03/04/2021 03:01 | 0.0 | 12.9 | 0.8 | 1 | 1 | 1028 | 0.15 | 5.8 | 10.36 |
| 03/04/2021 04:01 | 0.0 | 12.9 | 0.7 | 1 | 1 | 1028 | 0.13 | 5.8 | 10.34 |
| 03/04/2021 05:01 | 0.0 | 12.3 | 0.7 | 1 | 1 | 1028 | -0.01 | 5.5 | 10.34 |
| 03/04/2021 06:01 | 0.0 | 12.7 | 0.8 | 1 | 1 | 1029 | -0.01 | 5.6 | 10.34 |
| 03/04/2021 07:01 | 0.0 | 0.0 | 0.8 | 1 | 1 | 1029 | 0.05 | 5.9 | 10.35 |
| 03/04/2021 08:01 | 0.0 | 12.2 | 0.8 | 1 | 1 | 1029 | 0.05 | 6.3 | 10.37 |
| 03/04/2021 09:01 | 0.0 | 12.1 | 0.8 | 1 | 1 | 1030 | 0.08 | 6.7 | 10.38 |
| 03/04/2021 10:01 | 0.0 | 11.1 | 0.8 | 1 | 1 | 1030 | 0.01 | 7.2 | 10.38 |
| 03/04/2021 11:01 | 24.3 | 13.7 | 0.8 | 0 | 1 | 1030 | 0.07 | 7.7 | 10.39 |
| 03/04/2021 12:01 | 21.0 | 11.5 | 0.8 | 0 | 1 | 1030 | 0.06 | 8.0 | 10.40 |
| 03/04/2021 13:01 | 18.2 | 10.4 | 0.8 | 0 | 1 | 1029 | 0.08 | 8.3 | 10.40 |
| 03/04/2021 14:01 | 18.3 | 9.9 | 0.8 | 0 | 1 | 1029 | 0.05 | 8.6 | 10.39 |
| 03/04/2021 15:01 | 17.5 | 9.1 | 0.8 | 0 | 1 | 1029 | 0.02 | 8.6 | 10.37 |
| 03/04/2021 16:01 | 17.0 | 8.7 | 0.8 | 0 | 1 | 1028 | 0.09 | 8.8 | 10.35 |
| 03/04/2021 17:01 | 16.9 | 9.0 | 0.8 | 0 | 1 | 1028 | 0.07 | 8.5 | 10.34 |
| 03/04/2021 18:01 | 16.7 | 8.9 | 0.8 | 0 | 1 | 1028 | 0.08 | 8.0 | 10.34 |
| 03/04/2021 19:01 | 0.0 | 9.3 | 0.9 | 0 | 1 | 1028 | 0.05 | 7.3 | 10.35 |
| 03/04/2021 20:01 | 0.0 | 10.0 | 0.9 | 0 | 1 | 1028 | 0.02 | 6.9 | 10.36 |
| 03/04/2021 21:01 | 0.0 | 10.5 | 0.8 | 0 | 1 | 1028 | 0.01 | 6.6 | 10.37 |
| 03/04/2021 22:01 | 0.0 | 11.0 | 0.8 | 1 | 1 | 1028 | 0.07 | 6.1 | 10.38 |
| 03/04/2021 23:01 | 0.0 | 11.3 | 0.8 | 1 | 1 | 1028 | 0.08 | 5.9 | 10.38 |
| 04/04/2021 00:01 | 0.0 | 14.1 | 0.7 | 1 | 1 | 1028 | 0.07 | 5.3 | 10.39 |
| 04/04/2021 01:01 | 0.0 | 14.4 | 0.7 | 1 | 1 | 1027 | 0.13 | 5.1 | 10.39 |
| 04/04/2021 02:01 | 0.0 | 0.0 | 0.6 | 1 | 1 | 1027 | 0.06 | 5.1 | 10.39 |
| 04/04/2021 03:01 | 0.0 | 13.6 | 0.5 | 1 | 1 | 1027 | 0.09 | 4.8 | 10.38 |
| 04/04/2021 04:01 | 0.0 | 4.7 | 0.5 | 1 | 0 | 1027 | 0.13 | 4.8 | 10.37 |
| 04/04/2021 05:01 | 0.0 | 12.8 | 0.4 | 1 | 0 | 1026 | 0.12 | 4.6 | 10.35 |
| 04/04/2021 06:01 | 0.0 | 14.4 | 0.4 | 1 | 0 | 1026 | 0.13 | 4.5 | 10.35 |
| 04/04/2021 07:01 | 0.0 | 14.4 | 0.4 | 1 | 0 | 1026 | 0.07 | 4.8 | 10.35 |
| 04/04/2021 08:01 | 0.0 | 14.4 | 0.3 | 1 | 0 | 1025 | 0.11 | 4.9 | 10.36 |
| 04/04/2021 09:01 | 23.7 | 15.3 | 0.3 | 1 | 0 | 1025 | 0.07 | 5.4 | 10.36 |
| 04/04/2021 10:01 | 25.5 | 15.0 | 0.2 | 0 | 0 | 1025 | 0.14 | 6.6 | 10.36 |
| 04/04/2021 11:01 | 27.5 | 14.4 | 0.1 | 0 | 0 | 1024 | 0.07 | 8.2 | 10.37 |
| 04/04/2021 12:01 | 28.7 | 13.5 | 0.1 | 0 | 0 | 1023 | 0.14 | 10.1 | 10.37 |
| 04/04/2021 13:01 | 30.0 | 12.7 | 0.1 | 0 | 0 | 1022 | 0.16 | 11.6 | 10.37 |
| 04/04/2021 14:01 | 31.4 | 12.4 | 0.1 | 0 | 0 | 1020 | 0.11 | 13.1 | 10.36 |
| 04/04/2021 15:01 | 32.8 | 12.1 | 0.1 | 0 | 0 | 1019 | 0.23 | 14.0 | 10.35 |
| 04/04/2021 16:01 | 34.6 | 11.9 | 0.1 | 0 | 0 | 1018 | 0.20 | 14.0 | 10.34 |
| 04/04/2021 17:01 | 36.3 | 11.7 | 0.1 | 0 | 0 | 1018 | 0.10 | 14.3 | 10.33 |
| 04/04/2021 18:01 | 37.3 | 12.0 | 0.1 | 0 | 0 | 1017 | 0.24 | 13.5 | 10.32 |
| 04/04/2021 19:01 | 38.3 | 13.3 | 0.1 | 0 | 0 | 1016 | 0.18 | 12.0 | 10.32 |
| 04/04/2021 20:01 | 38.2 | 14.5 | 0.1 | 0 | 0 | 1015 | 0.13 | 10.7 | 10.32 |
| 04/04/2021 21:01 | 41.1 | 16.5 | 0.1 | 0 | 0 | 1015 | 0.25 | 9.8 | 10.32 |
| 04/04/2021 22:01 | 42.2 | 17.4 | 0.1 | 1 | 0 | 1014 | 0.12 | 10.1 | 10.32 |
| 04/04/2021 23:01 | 0.0 | 14.4 | 0.1 | 1 | 0 | 1013 | 0.29 | 10.3 | 10.33 |
| 05/04/2021 00:01 | 0.0 | 14.4 | 0.1 | 1 | 0 | 1012 | 0.26 | 9.5 | 10.33 |
| 05/04/2021 01:01 | 0.0 | 14.4 | 0.1 | 1 | 0 | 1012 | 0.25 | 8.9 | 10.34 |
| 05/04/2021 02:01 | 0.0 | 14.4 | 0.0 | 1 | 0 | 1011 | 0.31 | 8.9 | 10.34 |
| 05/04/2021 03:01 | 0.0 | 14.4 | 0.0 | 1 | 0 | 1011 | 0.20 | 8.4 | 10.33 |
| 05/04/2021 04:01 | 0.0 | 14.4 | 0.0 | 1 | 0 | 1010 | 0.18 | 7.7 | 10.33 |
| 05/04/2021 05:01 | 0.0 | 14.4 | 0.0 | 1 | 0 | 1010 | 0.27 | 8.1 | 10.32 |
| 05/04/2021 06:01 | 0.0 | 14.4 | 0.0 | 1 | 0 | 1011 | 0.25 | 6.9 | 10.32 |
| 05/04/2021 07:01 | 0.0 | 14.4 | 0.0 | 1 | 0 | 1012 | 0.11 | 6.0 | 10.33 |
| 05/04/2021 08:01 | 0.0 | 14.4 | 0.1 | 1 | 0 | 1013 | 0.25 | 3.6 | 10.34 |
| 05/04/2021 09:01 | 0.0 | 9.1 | 0.1 | 1 | 0 | 1014 | 0.22 | 3.9 | 10.34 |
| 05/04/2021 10:01 | 0.0 | 14.4 | 0.1 | 1 | 0 | 1015 | 0.11 | 3.4 | 10.36 |
| 05/04/2021 11:01 | 0.0 | 14.4 | 0.1 | 0 | 0 | 1015 | 0.16 | 4.2 | 10.37 |
| 05/04/2021 12:01 | 46.4 | 17.0 | 0.1 | 0 | 0 | 1016 | 0.11 | 4.3 | 10.39 |
| 05/04/2021 13:01 | 0.0 | 14.4 | 0.1 | 0 | 0 | 1016 | 0.09 | 5.3 | 10.40 |
| 05/04/2021 14:01 | 0.0 | 14.4 | 0.1 | 0 | 0 | 1016 | 0.20 | 5.5 | 10.40 |
| 05/04/2021 15:01 | 0.0 | 14.4 | 0.1 | 0 | 0 | 1016 | 0.07 | 5.9 | 10.40 |
| 05/04/2021 16:01 | 43.2 | 15.2 | 0.1 | 0 | 0 | 1016 | 0.12 | 6.1 | 10.40 |
| 05/04/2021 17:01 | 0.0 | 14.4 | 0.2 | 0 | 0 | 1017 | 0.08 | 5.7 | 10.40 |
| 05/04/2021 18:01 | 0.0 | 14.4 | 0.2 | 0 | 0 | 1017 | 0.10 | 5.1 | 10.39 |
| 05/04/2021 19:01 | 0.0 | 14.4 | 0.3 | 0 | 0 | 1018 | 0.05 | 3.3 | 10.39 |
| 05/04/2021 20:01 | 0.0 | 14.4 | 0.3 | 1 | 0 | 1018 | 0.05 | 1.4 | 10.39 |
| 05/04/2021 21:01 | 0.0 | 14.4 | 0.3 | 1 | 0 | 1018 | 0.07 | 2.1 | 10.39 |
| 05/04/2021 22:01 | 0.0 | 0.0 | 0.3 | 1 | 0 | 1018 | 0.11 | 2.8 | 10.39 |
| 05/04/2021 23:01 | 0.0 | 14.4 | 0.2 | 1 | 0 | 1018 | 0.19 | 2.7 | 10.40 |
| 06/04/2021 00:01 | 0.0 | 14.4 | 0.2 | 1 | 0 | 1018 | 0.11 | 2.2 | 10.41 |
| 06/04/2021 01:01 | 0.0 | 14.4 | 0.2 | 1 | 0 | 1018 | 0.12 | 1.5 | 10.41 |
| 06/04/2021 02:01 | 0.0 | 14.4 | 0.2 | 1 | 0 | 1018 | 0.19 | 1.2 | 10.41 |

| Date and Time | $CH_4$ % v/v | $CO_2$ % v/v | $O_2$ % v/v | $H_2S$ ppm/v | CO ppm/v | Atmospheric Pressure mbar | Flow Ltr/hr | Temperature °C | Water Level mbgl |
|---|---|---|---|---|---|---|---|---|---|
| 06/04/2021 03:01 | 0.0 | 0.0 | 0.2 | 1 | 0 | 1017 | 0.19 | 0.6 | 10.41 |
| 06/04/2021 04:01 | 0.0 | 14.4 | 0.1 | 1 | 0 | 1017 | 0.14 | 0.4 | 10.41 |
| 06/04/2021 05:01 | 0.0 | 14.4 | 0.1 | 1 | 0 | 1017 | 0.15 | 0.0 | 10.41 |
| 06/04/2021 06:01 | 0.0 | 14.4 | 0.1 | 1 | 0 | 1017 | 0.12 | 0.0 | 10.40 |
| 06/04/2021 07:01 | 0.0 | 14.4 | 0.1 | 1 | 0 | 1017 | 0.13 | 1.4 | 10.40 |
| 06/04/2021 08:01 | 0.0 | 14.4 | 0.1 | 1 | 0 | 1017 | 0.26 | 2.8 | 10.39 |
| 06/04/2021 09:01 | 0.0 | 14.4 | 0.1 | 1 | 0 | 1017 | 0.16 | 3.3 | 10.39 |
| 06/04/2021 10:01 | 38.1 | 16.9 | 0.0 | 1 | 0 | 1017 | 0.19 | 4.5 | 10.39 |
| 06/04/2021 11:01 | 38.9 | 16.2 | 0.0 | 1 | 0 | 1016 | 0.25 | 5.6 | 10.39 |
| 06/04/2021 12:01 | 39.0 | 16.0 | 0.0 | 0 | 0 | 1015 | 0.27 | 5.6 | 10.39 |
| 06/04/2021 13:01 | 39.1 | 14.8 | 0.0 | 0 | 0 | 1015 | 0.26 | 6.0 | 10.40 |
| 06/04/2021 14:01 | 39.2 | 13.5 | 0.0 | 0 | 0 | 1015 | 0.31 | 5.9 | 10.40 |
| 06/04/2021 15:01 | 40.6 | 14.0 | 0.0 | 0 | 0 | 1015 | 0.32 | 4.6 | 10.41 |
| 06/04/2021 16:01 | 41.2 | 14.6 | 0.0 | 0 | 0 | 1015 | 0.27 | 5.2 | 10.41 |
| 06/04/2021 17:01 | 41.0 | 14.9 | 0.0 | 0 | 0 | 1015 | -0.02 | 4.2 | 10.41 |
| 06/04/2021 18:01 | 42.9 | 15.5 | 0.1 | 1 | 0 | 1015 | 0.21 | 4.3 | 10.41 |
| 06/04/2021 19:01 | 43.2 | 16.3 | 0.1 | 1 | 0 | 1016 | 0.16 | 2.4 | 10.42 |
| 06/04/2021 20:01 | 44.3 | 17.7 | 0.1 | 1 | 0 | 1017 | 0.05 | 1.3 | 10.41 |
| 06/04/2021 21:01 | 0.0 | 14.4 | 0.1 | 1 | 0 | 1017 | 0.14 | -0.2 | 10.40 |
| 06/04/2021 22:01 | 0.0 | 14.4 | 0.1 | 1 | 0 | 1018 | 0.10 | 0.1 | 10.41 |
| 06/04/2021 23:01 | 0.0 | 14.4 | 0.1 | 1 | 0 | 1018 | 0.10 | -0.3 | 10.41 |
| 07/04/2021 00:01 | 0.0 | 14.4 | 0.1 | 1 | 0 | 1019 | 0.14 | -0.7 | 10.42 |
| 07/04/2021 01:01 | 0.0 | 14.4 | 0.1 | 1 | 0 | 1019 | 0.13 | -1.1 | 10.42 |
| 07/04/2021 02:01 | 0.0 | 14.4 | 0.1 | 1 | 0 | 1018 | 0.16 | -1.1 | 10.43 |
| 07/04/2021 03:01 | 0.0 | 14.4 | 0.1 | 1 | 0 | 1019 | 0.17 | -1.1 | 10.44 |
| 07/04/2021 04:01 | 0.0 | 14.4 | 0.1 | 1 | 0 | 1019 | 0.17 | -1.1 | 10.44 |
| 07/04/2021 05:01 | 0.0 | 14.4 | 0.1 | 1 | 0 | 1019 | 0.09 | -1.2 | 10.45 |
| 07/04/2021 06:01 | 0.0 | 14.4 | 0.1 | 1 | 0 | 1020 | 0.08 | -1.0 | 10.45 |
| 07/04/2021 07:01 | 0.0 | 14.4 | 0.1 | 1 | 0 | 1020 | 0.02 | 0.6 | 10.45 |
| 07/04/2021 08:01 | 0.0 | 14.4 | 0.1 | 1 | 0 | 1020 | 0.09 | 2.6 | 10.45 |
| 07/04/2021 09:01 | 0.0 | 14.4 | 0.1 | 1 | 0 | 1020 | 0.07 | 4.2 | 10.44 |
| 07/04/2021 10:01 | 0.0 | 14.4 | 0.1 | 1 | 0 | 1020 | 0.08 | 4.5 | 10.43 |
| 07/04/2021 11:01 | 0.0 | 13.6 | 0.1 | 1 | 0 | 1020 | 0.13 | 4.8 | 10.42 |
| 07/04/2021 12:01 | 0.0 | 13.5 | 0.1 | 0 | 0 | 1020 | 0.11 | 4.9 | 10.43 |
| 07/04/2021 13:01 | 26.0 | 11.6 | 0.0 | 0 | 0 | 1020 | 0.13 | 5.4 | 10.43 |
| 07/04/2021 14:01 | 26.7 | 11.5 | 0.0 | 0 | 0 | 1020 | 0.15 | 5.7 | 10.44 |
| 07/04/2021 15:01 | 27.5 | 11.5 | 0.0 | 0 | 0 | 1020 | 0.05 | 6.2 | 10.45 |
| 07/04/2021 16:01 | 28.2 | 11.9 | 0.1 | 0 | 0 | 1020 | 0.09 | 6.3 | 10.45 |
| 07/04/2021 17:01 | 29.0 | 12.1 | 0.1 | 1 | 0 | 1020 | 0.13 | 5.9 | 10.46 |
| 07/04/2021 18:01 | 0.0 | 14.3 | 0.1 | 1 | 0 | 1020 | 0.12 | 5.6 | 10.46 |
| 07/04/2021 19:01 | 0.0 | 14.4 | 0.1 | 1 | 0 | 1021 | 0.06 | 5.1 | 10.46 |
| 07/04/2021 20:01 | 0.0 | 14.4 | 0.1 | 1 | 0 | 1021 | 0.13 | 5.1 | 10.45 |
| 07/04/2021 21:01 | 31.5 | 14.4 | 0.1 | 1 | 0 | 1021 | 0.11 | 5.0 | 10.43 |
| 07/04/2021 22:01 | 31.3 | 14.9 | 0.1 | 1 | 0 | 1021 | 0.08 | 4.8 | 10.42 |
| 07/04/2021 23:01 | 31.1 | 15.2 | 0.1 | 1 | 0 | 1021 | 0.12 | 4.8 | 10.42 |
| 08/04/2021 00:01 | 0.0 | 14.4 | 0.1 | 1 | 0 | 1022 | 0.12 | 4.8 | 10.42 |
| 08/04/2021 01:01 | 0.0 | 14.4 | 0.0 | 1 | 0 | 1021 | 0.15 | 4.6 | 10.42 |
| 08/04/2021 02:01 | 0.0 | 14.4 | 0.0 | 1 | 0 | 1021 | 0.20 | 4.4 | 10.43 |
| 08/04/2021 03:01 | 0.0 | 14.4 | 0.0 | 1 | 0 | 1021 | 0.20 | 3.6 | 10.44 |
| 08/04/2021 04:01 | 0.0 | 14.4 | 0.0 | 1 | 0 | 1020 | 0.20 | 3.8 | 10.44 |
| 08/04/2021 05:01 | 0.0 | 14.4 | 0.0 | 1 | 0 | 1021 | 0.10 | 3.4 | 10.44 |
| 08/04/2021 06:01 | 0.0 | 14.4 | 0.0 | 1 | 0 | 1020 | 0.19 | 4.0 | 10.45 |
| 08/04/2021 07:01 | 0.0 | 14.4 | 0.0 | 1 | 0 | 1020 | 0.24 | 4.7 | 10.45 |
| 08/04/2021 08:01 | 0.0 | 14.4 | 0.0 | 1 | 0 | 1020 | 0.22 | 5.9 | 10.45 |
| 08/04/2021 09:01 | 0.0 | 14.4 | 0.0 | 1 | 0 | 1020 | 0.20 | 7.4 | 10.44 |
| 08/04/2021 10:01 | 0.0 | 14.1 | 0.0 | 1 | 0 | 1020 | 0.19 | 8.9 | 10.43 |
| 08/04/2021 11:01 | 0.0 | 13.3 | 0.0 | 1 | 0 | 1019 | 0.21 | 8.9 | 10.42 |
| 08/04/2021 12:01 | 0.0 | 12.8 | 0.0 | 0 | 0 | 1018 | 0.23 | 10.6 | 10.41 |
| 08/04/2021 13:01 | 0.0 | 14.4 | 0.0 | 0 | 0 | 1018 | 0.28 | 11.5 | 10.41 |
| 08/04/2021 14:01 | 49.0 | 11.1 | 0.0 | 0 | 0 | 1017 | 0.22 | 12.0 | 10.41 |
| 08/04/2021 15:01 | 50.1 | 11.6 | 0.0 | 0 | 0 | 1016 | 0.27 | 12.0 | 10.42 |
| 08/04/2021 16:01 | 50.8 | 10.1 | 0.0 | 0 | 0 | 1016 | 0.23 | 11.1 | 10.42 |
| 08/04/2021 17:01 | 51.7 | 10.1 | 0.0 | 0 | 0 | 1015 | 0.28 | 10.7 | 10.42 |
| 08/04/2021 18:01 | 51.0 | 10.2 | 0.0 | 0 | 0 | 1015 | 0.28 | 10.1 | 10.43 |
| 08/04/2021 19:01 | 51.1 | 12.0 | 0.0 | 0 | 0 | 1015 | 0.26 | 9.0 | 10.43 |
| 08/04/2021 20:01 | 0.0 | 0.0 | 0.1 | 0 | 0 | 1015 | 0.24 | 8.0 | 10.42 |
| 08/04/2021 21:01 | 0.0 | 14.4 | 0.1 | 0 | 0 | 1014 | 0.29 | 7.3 | 10.40 |
| 08/04/2021 22:01 | 0.0 | 13.6 | 0.0 | 1 | 0 | 1014 | 0.27 | 7.0 | 10.39 |
| 08/04/2021 23:01 | 0.0 | 14.4 | 0.0 | 1 | 0 | 1013 | 0.24 | 6.9 | 10.37 |
| 09/04/2021 00:01 | 0.0 | 0.0 | 0.0 | 1 | 0 | 1013 | 0.24 | 6.6 | 10.37 |
| 09/04/2021 01:01 | 0.0 | 0.0 | 0.0 | 1 | 0 | 1012 | 0.26 | 5.6 | 10.37 |
| 09/04/2021 02:01 | 0.0 | 14.4 | 0.0 | 1 | 0 | 1012 | 0.30 | 5.6 | 10.37 |
| 09/04/2021 03:01 | 0.0 | 0.0 | 0.0 | 1 | 0 | 1011 | 0.29 | 5.2 | 10.38 |
| 09/04/2021 04:01 | 0.0 | 0.0 | 0.0 | 1 | 0 | 1011 | 0.27 | 5.1 | 10.39 |
| 09/04/2021 05:01 | 0.0 | 0.0 | 0.0 | 1 | 0 | 1011 | 0.22 | 5.6 | 10.40 |
| 09/04/2021 06:01 | 0.0 | 0.0 | 0.0 | 1 | 0 | 1011 | 0.20 | 5.2 | 10.41 |
| 09/04/2021 07:01 | 0.0 | 0.0 | 0.0 | 1 | 0 | 1011 | 0.22 | 6.6 | 10.42 |
| 09/04/2021 08:01 | 0.0 | 0.0 | 0.0 | 1 | 0 | 1011 | 0.20 | 8.6 | 10.41 |
| 09/04/2021 09:01 | 0.0 | 14.4 | 0.0 | 1 | 0 | 1010 | 0.25 | 9.4 | 10.40 |
| 09/04/2021 10:01 | 0.0 | 14.4 | 0.0 | 0 | 0 | 1010 | 0.18 | 10.9 | 10.39 |
| 09/04/2021 11:01 | 0.0 | 12.4 | 0.0 | 0 | 0 | 1010 | 0.21 | 10.9 | 10.37 |
| 09/04/2021 12:01 | 53.0 | 9.9 | 0.0 | 0 | 0 | 1009 | 0.23 | 12.8 | 10.36 |
| 09/04/2021 13:01 | 53.3 | 9.6 | 0.0 | 0 | 0 | 1009 | 0.18 | 12.3 | 10.36 |
| 09/04/2021 14:01 | 54.6 | 9.4 | 0.0 | 0 | 0 | 1009 | 0.22 | 13.3 | 10.36 |
| 09/04/2021 15:01 | 53.9 | 9.2 | 0.1 | 0 | 0 | 1008 | 0.20 | 13.4 | 10.37 |
| 09/04/2021 16:01 | 54.2 | 8.8 | 0.1 | 0 | 0 | 1008 | 0.23 | 12.7 | 10.39 |
| 09/04/2021 17:01 | 53.6 | 8.9 | 0.1 | 0 | 0 | 1008 | 0.27 | 10.5 | 10.40 |
| 09/04/2021 18:01 | 53.6 | 9.0 | 0.1 | 0 | 0 | 1008 | 0.23 | 9.5 | 10.41 |
| 09/04/2021 19:01 | 53.5 | 9.6 | 0.1 | 0 | 0 | 1009 | 0.22 | 9.0 | 10.42 |
| 09/04/2021 20:01 | 52.7 | 10.1 | 0.1 | 0 | 0 | 1010 | 0.18 | 8.4 | 10.43 |
| 09/04/2021 21:01 | 52.6 | 10.5 | 0.1 | 0 | 0 | 1010 | 0.17 | 7.7 | 10.42 |
| 09/04/2021 22:01 | 52.5 | 11.1 | 0.1 | 0 | 0 | 1010 | 0.18 | 7.2 | 10.40 |
| 09/04/2021 23:01 | 52.8 | 11.6 | 0.1 | 0 | 0 | 1010 | 0.21 | 6.7 | 10.38 |
| 10/04/2021 00:01 | 52.5 | 13.6 | 0.1 | 1 | 0 | 1010 | 0.20 | 6.5 | 10.37 |
| 10/04/2021 01:01 | 51.4 | 15.0 | 0.1 | 1 | 0 | 1010 | 0.27 | 6.2 | 10.36 |
| 10/04/2021 02:01 | 51.2 | 17.3 | 0.1 | 1 | 0 | 1010 | 0.24 | 5.7 | 10.37 |
| 10/04/2021 03:01 | 51.3 | 13.5 | 0.1 | 1 | 0 | 1010 | 0.22 | 5.5 | 10.38 |
| 10/04/2021 04:01 | 0.0 | 0.0 | 0.1 | 1 | 0 | 1010 | 0.19 | 5.2 | 10.40 |
| 10/04/2021 05:01 | 0.0 | 14.4 | 0.1 | 1 | 0 | 1010 | 0.20 | 4.8 | 10.41 |
| 10/04/2021 06:01 | 0.0 | 14.4 | 0.1 | 1 | 0 | 1010 | 0.22 | 4.9 | 10.42 |
| 10/04/2021 07:01 | 0.0 | 14.4 | 0.1 | 1 | 0 | 1010 | 0.25 | 5.5 | 10.43 |
| 10/04/2021 08:01 | 0.0 | 14.4 | 0.1 | 1 | 0 | 1010 | 0.22 | 6.4 | 10.44 |
| 10/04/2021 09:01 | 0.0 | 14.4 | 0.1 | 1 | 0 | 1010 | 0.23 | 6.9 | 10.44 |
| 10/04/2021 10:01 | 0.0 | 14.4 | 0.1 | 1 | 0 | 1010 | 0.25 | 7.1 | 10.42 |
| 10/04/2021 11:01 | 0.0 | 14.4 | 0.1 | 1 | 0 | 1010 | 0.25 | 7.0 | 10.39 |
| 10/04/2021 12:01 | 0.0 | 14.4 | 0.1 | 1 | 0 | 1010 | 0.24 | 7.0 | 10.38 |
| 10/04/2021 13:01 | 0.0 | 14.4 | 0.1 | 0 | 0 | 1010 | 0.21 | 7.1 | 10.37 |
| 10/04/2021 14:01 | 0.0 | 14.4 | 0.1 | 1 | 0 | 1010 | 0.19 | 6.0 | 10.38 |
| 10/04/2021 15:01 | 0.0 | 13.6 | 0.1 | 0 | 0 | 1009 | 0.20 | 6.3 | 10.39 |
| 10/04/2021 16:01 | 0.0 | 12.8 | 0.1 | 0 | 0 | 1009 | 0.19 | 6.1 | 10.40 |
| 10/04/2021 17:01 | 0.0 | 14.4 | 0.1 | 0 | 0 | 1009 | 0.23 | 6.5 | 10.41 |
| 10/04/2021 18:01 | 0.0 | 0.0 | 0.1 | 1 | 0 | 1009 | 0.14 | 6.1 | 10.42 |
| 10/04/2021 19:01 | 0.0 | 14.4 | 0.1 | 1 | 0 | 1010 | 0.15 | 5.4 | 10.44 |
| 10/04/2021 20:01 | 0.0 | 14.4 | 0.1 | 1 | 0 | 1010 | 0.14 | 4.2 | 10.44 |

| Date and Time | $CH_4$ % v/v | $CO_2$ % v/v | $O_2$ % v/v | $H_2S$ ppm/v | CO ppm/v | Atmospheric Pressure mbar | Flow Ltr/hr | Temperature °C | Water Level mbgl |
|---|---|---|---|---|---|---|---|---|---|
| 10/04/2021 21:01 | 0.0 | 14.4 | 0.1 | 1 | 0 | 1011 | 0.14 | 4.6 | 10.44 |
| 10/04/2021 22:01 | 0.0 | 0.0 | 0.1 | 1 | 0 | 1011 | 0.09 | 3.9 | 10.44 |
| 10/04/2021 23:01 | 0.0 | 0.0 | 0.1 | 1 | 0 | 1011 | 0.13 | 2.3 | 10.42 |
| 11/04/2021 00:01 | 0.0 | 12.7 | 0.1 | 1 | 0 | 1011 | 0.12 | 1.9 | 10.40 |
| 11/04/2021 01:01 | 0.0 | 0.0 | 0.1 | 0 | 0 | 1011 | 0.17 | 1.3 | 10.39 |
| 11/04/2021 02:01 | 0.0 | 0.0 | 0.1 | 1 | 0 | 1011 | 0.14 | 0.9 | 10.39 |
| 11/04/2021 03:01 | 0.0 | 0.0 | 0.1 | 1 | 0 | 1012 | 0.14 | 0.7 | 10.40 |
| 11/04/2021 04:01 | 0.0 | 0.0 | 0.1 | 1 | 0 | 1012 | 0.10 | 0.6 | 10.42 |
| 11/04/2021 05:01 | 0.0 | 0.0 | 0.1 | 1 | 0 | 1012 | 0.08 | -0.4 | 10.44 |
| 11/04/2021 06:01 | 0.0 | 0.0 | 0.1 | 1 | 0 | 1013 | 0.02 | 0.0 | 10.46 |
| 11/04/2021 07:01 | 0.0 | 0.0 | 0.2 | 1 | 0 | 1014 | 0.08 | 3.1 | 10.48 |
| 11/04/2021 08:01 | 0.0 | 0.0 | 0.1 | 1 | 0 | 1014 | 0.05 | 4.3 | 10.48 |
| 11/04/2021 09:01 | 0.0 | 0.0 | 0.2 | 1 | 0 | 1015 | 0.08 | 5.3 | 10.49 |
| 11/04/2021 10:01 | 0.0 | 10.7 | 0.2 | 1 | 0 | 1015 | 0.10 | 6.2 | 10.48 |
| 11/04/2021 11:01 | 0.0 | 9.6 | 0.2 | 0 | 0 | 1015 | 0.05 | 7.2 | 10.46 |
| 11/04/2021 12:01 | 0.0 | 6.4 | 0.2 | 0 | 0 | 1016 | -0.01 | 7.2 | 10.45 |
| 11/04/2021 13:01 | 0.0 | 10.9 | 0.2 | 0 | 0 | 1016 | 0.02 | 8.0 | 10.44 |
| 11/04/2021 14:01 | 0.0 | 0.0 | 0.3 | 0 | 0 | 1016 | 0.06 | 8.0 | 10.43 |
| 11/04/2021 15:01 | 0.0 | 11.1 | 0.3 | 0 | 0 | 1017 | -0.05 | 8.3 | 10.44 |
| 11/04/2021 16:01 | 0.0 | 6.9 | 0.3 | 0 | 0 | 1017 | 0.08 | 7.8 | 10.45 |
| 11/04/2021 17:01 | 0.0 | 11.3 | 0.4 | 0 | 0 | 1018 | 0.08 | 6.3 | 10.48 |
| 11/04/2021 18:01 | 0.0 | 11.3 | 0.4 | 0 | 0 | 1019 | 0.01 | 3.9 | 10.49 |
| 11/04/2021 19:01 | 0.0 | 12.0 | 0.5 | 0 | 0 | 1020 | 0.02 | 3.7 | 10.51 |
| 11/04/2021 20:01 | 0.0 | 0.0 | 0.5 | 1 | 0 | 1021 | 0.03 | 0.8 | 10.52 |
| 11/04/2021 21:01 | 0.0 | 11.1 | 0.5 | 1 | 1 | 1021 | 0.04 | 1.4 | 10.53 |
| 11/04/2021 22:01 | 0.0 | 0.0 | 0.5 | 1 | 0 | 1022 | 0.05 | 0.6 | 10.52 |
| 11/04/2021 23:01 | 0.0 | 0.0 | 0.5 | 1 | 0 | 1022 | 0.08 | 1.4 | 10.50 |
| 12/04/2021 00:01 | 0.0 | 0.0 | 0.4 | 1 | 0 | 1022 | 0.07 | 0.5 | 10.48 |

# GGS Time Series Data

Experts in Continuous Monitoring

| | | |
|---|---|---|
| **Project Ref:** | GGS2440 | |
| **Location:** | Broadmarsh open Space, Harts Farm Way | |
| **Borehole ref:** | RO101 | |
| **Monitoring schedule:** | GC44/12/09 | 20/04/21 - 29/04/21 (90 mins) |
| | GS03000044 | 29/04/21 - 19/05/21 (60 mins) |
| **Start Date:** | 20/04/2021 18:03 | Days of monitoring: 29 |
| **End Date:** | 19/05/2021 07:01 | Total samples taken: 618 |

**Minimum, Maximum and Range Table**

| | $CH_4$ | $CO_2$ | $O_2$ | $H_2S$ | CO | Borehole Pressure | Atmospheric Pressure | Differential Pressure | Flow | | Water Level | Barologger Atmospheric Pressure | Barologger Temperature |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | % v/v | % v/v | % v/v | ppm/v | ppm/v | mbar | mbar | mbar | Ltr/hr | | mbgl | mbar | °C |
| **Minimum** | 30.9 | 21.6 | 0.0 | 0 | 0 | 992 | 993 | -1 | -0.05 | | 8.03 | 992 | 0.3 |
| **Maximum** | 54.3 | 26.5 | 3.9 | 2 | 2 | 1026 | 1026 | 1 | 0.94 | | 8.21 | 1026 | 23.8 |
| **Range** | 23.4 | 4.9 | 3.9 | 2 | 2 | 34 | 33 | N/A | 0.99 | | 0.18 | 34 | 23.5 |

| Date and Time | $CH_4$ % v/v | $CO_2$ % v/v | $O_2$ % v/v | $H_2S$ ppm/v | CO ppm/v | Borehole Pressure mbar | Atmospheric Pressure mbar | Differential Pressure mbar | Flow Ltr/hr | | Date and Time | Water Level mbgl | Barologger Atmospheric Pressure mbar | Barologger Temperature °C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20/04/2021 18:03 | 47.1 | 25.1 | 1.4 | 2 | 2 | 1014 | 1014 | 0 | NM | | 20/04/2021 18:17 | 8.03 | 1014 | 14.4 |
| 20/04/2021 19:33 | 51.1 | 25.5 | 1.4 | 2 | 2 | 1015 | 1014 | -1 | NM | | 20/04/2021 19:17 | 8.04 | 1015 | 11.8 |
| 20/04/2021 21:03 | 52.7 | 25.5 | 1.3 | 2 | 2 | 1015 | 1014 | -1 | NM | | 20/04/2021 20:17 | 8.04 | 1015 | 9.9 |
| 20/04/2021 22:33 | 54.3 | 25.5 | 1.1 | 2 | 2 | 1015 | 1014 | -1 | NM | | 20/04/2021 21:17 | 8.05 | 1015 | 8.7 |
| 21/04/2021 00:03 | 54.3 | 25.4 | 1.1 | 2 | 2 | 1015 | 1015 | 0 | NM | | 20/04/2021 22:17 | 8.05 | 1015 | 8.0 |
| 21/04/2021 01:33 | 52.7 | 25.8 | 1.0 | 2 | 2 | 1015 | 1014 | -1 | NM | | 20/04/2021 23:17 | 8.05 | 1015 | 7.6 |
| 21/04/2021 03:03 | 50.3 | 25.8 | 1.0 | 2 | 2 | 1015 | 1014 | -1 | NM | | 21/04/2021 00:17 | 8.05 | 1015 | 6.7 |
| 21/04/2021 04:33 | 47.9 | 25.5 | 0.9 | 2 | 2 | 1015 | 1015 | 0 | NM | | 21/04/2021 01:17 | 8.06 | 1015 | 6.8 |
| 21/04/2021 06:03 | 45.5 | 25.1 | 0.9 | 2 | 2 | 1015 | 1015 | 0 | NM | | 21/04/2021 02:17 | 8.06 | 1015 | 6.3 |
| 21/04/2021 07:33 | 44.0 | 24.7 | 0.9 | 2 | 2 | 1016 | 1016 | 0 | NM | | 21/04/2021 03:17 | 8.06 | 1015 | 5.9 |
| 21/04/2021 09:03 | 41.6 | 24.7 | 0.9 | 2 | 2 | 1017 | 1016 | -1 | NM | | 21/04/2021 04:17 | 8.06 | 1015 | 6.2 |
| 21/04/2021 10:33 | 40.0 | 24.7 | 1.0 | 2 | 2 | 1017 | 1016 | -1 | NM | | 21/04/2021 05:17 | 8.07 | 1016 | 6.6 |
| 21/04/2021 12:03 | 38.4 | 24.7 | 1.0 | 2 | 2 | 1017 | 1016 | -1 | NM | | 21/04/2021 06:17 | 8.07 | 1016 | 7.4 |
| 21/04/2021 13:33 | 38.0 | 24.4 | 0.9 | 2 | 2 | 1017 | 1016 | -1 | NM | | 21/04/2021 07:17 | 8.07 | 1017 | 8.7 |
| 21/04/2021 15:03 | 36.8 | 24.7 | 0.9 | 2 | 2 | 1017 | 1017 | 0 | NM | | 21/04/2021 08:17 | 8.07 | 1017 | 12.0 |
| 21/04/2021 16:33 | 36.0 | 24.4 | 0.9 | 2 | 2 | 1018 | 1017 | -1 | NM | | 21/04/2021 09:17 | 8.08 | 1017 | 14.4 |
| 21/04/2021 18:03 | 35.6 | 24.7 | 0.8 | 1 | 2 | 1018 | 1017 | -1 | NM | | 21/04/2021 10:17 | 8.08 | 1017 | 16.1 |
| 21/04/2021 19:33 | 34.9 | 24.7 | 0.7 | 1 | 2 | 1019 | 1018 | -1 | NM | | 21/04/2021 11:17 | 8.08 | 1017 | 15.8 |
| 21/04/2021 21:03 | 34.9 | 24.7 | 0.7 | 1 | 2 | 1020 | 1019 | -1 | NM | | 21/04/2021 12:17 | 8.08 | 1017 | 16.7 |
| 21/04/2021 22:33 | 34.5 | 24.4 | 0.7 | 1 | 2 | 1021 | 1020 | -1 | NM | | 21/04/2021 13:17 | 8.08 | 1017 | 17.6 |
| 22/04/2021 00:03 | 33.7 | 24.4 | 0.7 | 1 | 2 | 1021 | 1021 | 0 | NM | | 21/04/2021 14:17 | 8.08 | 1018 | 17.8 |
| 22/04/2021 01:33 | 33.3 | 24.4 | 0.7 | 1 | 2 | 1022 | 1021 | -1 | NM | | 21/04/2021 15:17 | 8.09 | 1018 | 17.6 |
| 22/04/2021 03:03 | 33.3 | 24.4 | 0.6 | 1 | 2 | 1022 | 1022 | 0 | NM | | 21/04/2021 16:17 | 8.09 | 1018 | 17.1 |
| 22/04/2021 04:33 | 33.3 | 24.4 | 0.6 | 1 | 2 | 1022 | 1022 | 0 | NM | | 21/04/2021 17:17 | 8.09 | 1018 | 16.3 |
| 22/04/2021 06:03 | 33.3 | 24.4 | 0.6 | 1 | 2 | 1023 | 1022 | -1 | NM | | 21/04/2021 18:17 | 8.09 | 1018 | 14.7 |
| 22/04/2021 07:33 | 32.9 | 24.0 | 0.7 | 1 | 2 | 1023 | 1023 | 0 | NM | | 21/04/2021 19:17 | 8.09 | 1019 | 12.4 |
| 22/04/2021 09:03 | 32.9 | 24.4 | 0.7 | 1 | 2 | 1024 | 1023 | -1 | NM | | 21/04/2021 20:17 | 8.09 | 1020 | 10.8 |
| 22/04/2021 10:33 | 32.5 | 24.4 | 0.7 | 1 | 2 | 1024 | 1024 | 0 | NM | | 21/04/2021 21:17 | 8.09 | 1020 | 9.5 |
| 22/04/2021 12:03 | 32.1 | 24.0 | 0.7 | 1 | 2 | 1024 | 1023 | -1 | NM | | 21/04/2021 22:17 | 8.10 | 1021 | 8.2 |
| 22/04/2021 13:33 | 38.0 | 25.1 | 0.5 | 1 | 2 | 1023 | 1023 | 0 | NM | | 21/04/2021 23:17 | 8.10 | 1021 | 7.3 |
| 22/04/2021 15:03 | 40.8 | 25.5 | 0.4 | 1 | 2 | 1023 | 1023 | 0 | NM | | 22/04/2021 00:17 | 8.10 | 1022 | 6.6 |
| 22/04/2021 16:33 | 43.2 | 25.8 | 0.4 | 1 | 2 | 1024 | 1023 | -1 | NM | | 22/04/2021 01:17 | 8.10 | 1022 | 5.9 |
| 22/04/2021 18:03 | 43.2 | 25.5 | 0.4 | 1 | 2 | 1023 | 1023 | 0 | NM | | 22/04/2021 02:17 | 8.10 | 1022 | 5.2 |
| 22/04/2021 19:33 | 44.0 | 26.2 | 0.4 | 1 | 2 | 1024 | 1023 | -1 | NM | | 22/04/2021 03:17 | 8.10 | 1022 | 4.7 |
| 22/04/2021 21:03 | 44.0 | 25.8 | 0.4 | 1 | 2 | 1024 | 1024 | 0 | NM | | 22/04/2021 04:17 | 8.10 | 1022 | 4.2 |
| 22/04/2021 22:33 | 43.2 | 25.8 | 0.4 | 1 | 2 | 1024 | 1024 | 0 | NM | | 22/04/2021 05:17 | 8.10 | 1023 | 4.2 |
| 23/04/2021 00:03 | 41.6 | 25.4 | 0.4 | 1 | 2 | 1025 | 1025 | 0 | NM | | 22/04/2021 06:17 | 8.11 | 1023 | 5.6 |
| 23/04/2021 01:33 | 40.0 | 25.1 | 0.4 | 1 | 2 | 1025 | 1025 | 0 | NM | | 22/04/2021 07:17 | 8.11 | 1024 | 7.7 |
| 23/04/2021 03:03 | 38.8 | 25.1 | 0.5 | 1 | 2 | 1025 | 1024 | -1 | NM | | 22/04/2021 08:17 | 8.11 | 1024 | 9.7 |
| 23/04/2021 04:33 | 38.0 | 25.1 | 0.5 | 1 | 2 | 1025 | 1024 | -1 | NM | | 22/04/2021 09:17 | 8.11 | 1024 | 11.2 |
| 23/04/2021 06:03 | 37.2 | 24.7 | 0.5 | 1 | 2 | 1025 | 1025 | 0 | NM | | 22/04/2021 10:17 | 8.12 | 1024 | 13.1 |
| 23/04/2021 07:33 | 36.4 | 25.1 | 0.5 | 1 | 2 | 1025 | 1025 | 0 | NM | | 22/04/2021 11:17 | 8.11 | 1024 | 14.6 |
| 23/04/2021 09:03 | 35.6 | 24.7 | 0.5 | 1 | 2 | 1026 | 1026 | 0 | NM | | 22/04/2021 12:17 | 8.12 | 1024 | 15.6 |
| 23/04/2021 10:33 | 35.3 | 24.7 | 0.6 | 1 | 2 | 1026 | 1025 | -1 | NM | | 22/04/2021 13:17 | 8.12 | 1023 | 16.3 |
| 23/04/2021 12:03 | 34.9 | 24.7 | 0.6 | 1 | 2 | 1026 | 1025 | -1 | NM | | 22/04/2021 14:17 | 8.12 | 1024 | 16.7 |
| 23/04/2021 13:33 | 34.9 | 25.1 | 0.6 | 1 | 2 | 1025 | 1024 | -1 | NM | | 22/04/2021 15:17 | 8.12 | 1024 | 16.9 |
| 23/04/2021 15:03 | 34.1 | 24.7 | 0.6 | 1 | 2 | 1024 | 1024 | 0 | NM | | 22/04/2021 16:17 | 8.12 | 1024 | 16.6 |
| 23/04/2021 16:33 | 34.5 | 25.1 | 0.6 | 1 | 2 | 1024 | 1023 | -1 | NM | | 22/04/2021 17:17 | 8.12 | 1023 | 15.8 |
| 23/04/2021 18:03 | 34.5 | 24.7 | 0.5 | 1 | 2 | 1023 | 1023 | 0 | NM | | 22/04/2021 18:17 | 8.12 | 1023 | 14.5 |
| 23/04/2021 19:33 | 34.1 | 24.7 | 0.5 | 1 | 2 | 1023 | 1023 | 0 | NM | | 22/04/2021 19:17 | 8.12 | 1024 | 11.8 |
| 23/04/2021 21:03 | 33.7 | 24.7 | 0.4 | 1 | 2 | 1024 | 1023 | -1 | NM | | 22/04/2021 20:17 | 8.12 | 1024 | 10.0 |
| 23/04/2021 22:33 | 33.7 | 24.4 | 0.4 | 1 | 2 | 1024 | 1023 | -1 | NM | | 22/04/2021 21:17 | 8.12 | 1024 | 8.6 |
| 24/04/2021 00:03 | 33.3 | 24.5 | 0.4 | 1 | 2 | 1024 | 1023 | -1 | NM | | 22/04/2021 22:17 | 8.12 | 1025 | 7.6 |
| 24/04/2021 01:33 | 33.7 | 24.7 | 0.5 | 1 | 2 | 1024 | 1023 | -1 | NM | | 22/04/2021 23:17 | 8.12 | 1025 | 6.6 |
| 24/04/2021 03:03 | 33.3 | 24.7 | 0.5 | 1 | 2 | 1023 | 1023 | 0 | NM | | 23/04/2021 00:17 | 8.12 | 1025 | 5.7 |
| 24/04/2021 04:33 | 32.9 | 24.5 | 0.5 | 1 | 2 | 1023 | 1023 | 0 | NM | | 23/04/2021 01:17 | 8.12 | 1025 | 5.0 |
| 24/04/2021 06:03 | 32.9 | 24.7 | 0.4 | 1 | 2 | 1023 | 1023 | 0 | NM | | 23/04/2021 02:17 | 8.12 | 1025 | 4.8 |
| 24/04/2021 07:33 | 32.5 | 24.4 | 0.5 | 1 | 2 | 1024 | 1023 | -1 | NM | | 23/04/2021 03:17 | 8.12 | 1025 | 4.4 |
| 24/04/2021 09:03 | 32.5 | 24.4 | 0.5 | 1 | 2 | 1024 | 1024 | 0 | NM | | 23/04/2021 04:17 | 8.13 | 1025 | 4.2 |
| 24/04/2021 10:33 | 32.5 | 24.4 | 0.5 | 1 | 2 | 1024 | 1023 | -1 | NM | | 23/04/2021 05:17 | 8.13 | 1025 | 4.0 |
| 24/04/2021 12:03 | 32.5 | 24.4 | 0.5 | 1 | 2 | 1024 | 1023 | -1 | NM | | 23/04/2021 06:17 | 8.13 | 1026 | 5.9 |
| 24/04/2021 13:33 | 32.1 | 24.7 | 0.5 | 1 | 2 | 1023 | 1023 | 0 | NM | | 23/04/2021 07:17 | 8.13 | 1026 | 8.5 |
| 24/04/2021 15:03 | 34.5 | 24.8 | 0.4 | 1 | 2 | 1023 | 1022 | -1 | NM | | 23/04/2021 08:17 | 8.13 | 1026 | 10.4 |
| 24/04/2021 16:33 | 33.7 | 24.7 | 0.4 | 1 | 2 | 1022 | 1022 | 0 | NM | | 23/04/2021 09:17 | 8.13 | 1026 | 12.5 |
| 24/04/2021 18:03 | 32.9 | 25.1 | 0.4 | 1 | 2 | 1022 | 1022 | 0 | NM | | 23/04/2021 10:17 | 8.13 | 1026 | 14.2 |
| 24/04/2021 19:33 | 33.7 | 24.7 | 0.4 | 1 | 2 | 1023 | 1022 | -1 | NM | | 23/04/2021 11:17 | 8.13 | 1026 | 15.5 |
| 24/04/2021 21:03 | 33.3 | 25.1 | 0.4 | 1 | 2 | 1023 | 1023 | 0 | NM | | 23/04/2021 12:17 | 8.13 | 1025 | 16.3 |
| 24/04/2021 22:33 | 33.3 | 25.1 | 0.4 | 1 | 2 | 1024 | 1023 | -1 | NM | | 23/04/2021 13:17 | 8.13 | 1025 | 16.9 |
| 25/04/2021 00:03 | 33.3 | 24.7 | 0.4 | 1 | 2 | 1024 | 1024 | 0 | NM | | 23/04/2021 14:17 | 8.13 | 1024 | 17.4 |
| 25/04/2021 01:33 | 32.9 | 24.7 | 0.4 | 1 | 2 | 1024 | 1024 | 0 | NM | | 23/04/2021 15:17 | 8.13 | 1024 | 17.8 |
| 25/04/2021 03:03 | 32.9 | 24.7 | 0.4 | 1 | 2 | 1024 | 1023 | -1 | NM | | 23/04/2021 16:17 | 8.13 | 1024 | 17.7 |
| 25/04/2021 04:33 | 32.5 | 24.7 | 0.4 | 1 | 2 | 1024 | 1023 | -1 | NM | | 23/04/2021 17:17 | 8.13 | 1023 | 17.3 |
| 25/04/2021 06:03 | 32.5 | 24.7 | 0.4 | 1 | 2 | 1024 | 1024 | 0 | NM | | 23/04/2021 18:17 | 8.13 | 1023 | 15.2 |
| 25/04/2021 07:33 | 32.5 | 24.4 | 0.4 | 1 | 2 | 1025 | 1024 | -1 | NM | | 23/04/2021 19:17 | 8.13 | 1023 | 12.9 |
| 25/04/2021 09:03 | 32.5 | 24.4 | 0.5 | 1 | 2 | 1025 | 1025 | 0 | NM | | 23/04/2021 20:17 | 8.13 | 1024 | 11.0 |
| 25/04/2021 10:33 | 32.5 | 24.7 | 0.5 | 1 | 2 | 1025 | 1024 | -1 | NM | | 23/04/2021 21:17 | 8.13 | 1023 | 10.1 |
| 25/04/2021 12:03 | 32.1 | 24.4 | 0.5 | 1 | 2 | 1025 | 1024 | -1 | NM | | 23/04/2021 22:17 | 8.13 | 1024 | 9.5 |
| 25/04/2021 13:33 | 32.1 | 24.4 | 0.5 | 1 | 2 | 1025 | 1024 | -1 | NM | | 23/04/2021 23:17 | 8.13 | 1024 | 8.7 |
| 25/04/2021 15:03 | 32.1 | 24.4 | 0.5 | 1 | 2 | 1024 | 1023 | -1 | NM | | 24/04/2021 00:17 | 8.13 | 1024 | 8.2 |
| 25/04/2021 16:33 | 31.7 | 24.7 | 0.5 | 1 | 2 | 1022 | 1022 | 0 | NM | | 24/04/2021 01:17 | 8.13 | 1023 | 7.7 |
| 25/04/2021 18:03 | 31.7 | 24.3 | 0.5 | 1 | 2 | 1022 | 1021 | -1 | NM | | 24/04/2021 02:17 | 8.13 | 1023 | 7.5 |
| 25/04/2021 19:33 | 32.1 | 24.7 | 0.4 | 1 | 2 | 1022 | 1021 | -1 | NM | | 24/04/2021 03:17 | 8.13 | 1023 | 7.0 |
| 25/04/2021 21:03 | 31.7 | 24.7 | 0.4 | 1 | 2 | 1023 | 1022 | -1 | NM | | 24/04/2021 04:17 | 8.13 | 1023 | 6.5 |
| 25/04/2021 22:33 | 31.7 | 24.7 | 0.4 | 1 | 2 | 1023 | 1022 | -1 | NM | | 24/04/2021 05:17 | 8.13 | 1023 | 6.4 |
| 26/04/2021 00:03 | 31.7 | 24.3 | 0.4 | 1 | 2 | 1022 | 1022 | 0 | NM | | 24/04/2021 06:17 | 8.13 | 1024 | 8.1 |
| 26/04/2021 01:33 | 32.1 | 24.3 | 0.4 | 1 | 2 | 1022 | 1022 | 0 | NM | | 24/04/2021 07:17 | 8.13 | 1024 | 10.4 |
| 26/04/2021 03:03 | 31.7 | 24.7 | 0.4 | 1 | 2 | 1021 | 1021 | 0 | NM | | 24/04/2021 08:17 | 8.13 | 1024 | 12.4 |
| 26/04/2021 04:33 | 31.7 | 24.4 | 0.4 | 1 | 2 | 1021 | 1021 | 0 | NM | | 24/04/2021 09:17 | 8.14 | 1024 | 13.9 |
| 26/04/2021 06:03 | 31.7 | 24.4 | 0.4 | 1 | 2 | 1021 | 1020 | -1 | NM | | 24/04/2021 10:17 | 8.14 | 1024 | 15.4 |
| 26/04/2021 07:33 | 31.7 | 24.4 | 0.4 | 1 | 2 | 1020 | 1020 | 0 | NM | | 24/04/2021 11:17 | 8.14 | 1024 | 16.6 |
| 26/04/2021 09:03 | 31.7 | 24.4 | 0.4 | 1 | 2 | 1020 | 1020 | 0 | NM | | 24/04/2021 12:17 | 8.14 | 1023 | 17.4 |
| 26/04/2021 10:33 | 32.1 | 24.4 | 0.5 | 1 | 2 | 1019 | 1019 | 0 | NM | | 24/04/2021 13:17 | 8.13 | 1023 | 18.0 |
| 26/04/2021 12:03 | 31.7 | 24.3 | 0.5 | 1 | 2 | 1018 | 1018 | 0 | NM | | 24/04/2021 14:17 | 8.13 | 1023 | 18.8 |
| 26/04/2021 13:33 | 31.3 | 24.4 | 0.5 | 1 | 2 | 1017 | 1016 | -1 | NM | | 24/04/2021 15:17 | 8.13 | 1022 | 18.9 |
| 26/04/2021 15:03 | 31.7 | 24.7 | 0.5 | 1 | 2 | 1016 | 1015 | -1 | NM | | 24/04/2021 16:17 | 8.13 | 1022 | 18.5 |
| 26/04/2021 16:33 | 31.3 | 24.7 | 0.5 | 1 | 2 | 1014 | 1014 | 0 | NM | | 24/04/2021 17:17 | 8.13 | 1022 | 17.5 |
| 26/04/2021 18:03 | 31.7 | 24.3 | 0.5 | 1 | 2 | 1014 | 1013 | -1 | NM | | 24/04/2021 18:17 | 8.13 | 1022 | 16.0 |
| 26/04/2021 19:33 | 31.7 | 24.4 | 0.4 | 1 | 2 | 1013 | 1013 | 0 | NM | | 24/04/2021 19:17 | 8.13 | 1023 | 13.3 |
| 26/04/2021 21:03 | 31.7 | 24.7 | 0.4 | 1 | 2 | 1013 | 1013 | 0 | NM | | 24/04/2021 20:17 | 8.14 | 1023 | 11.6 |
| 26/04/2021 22:33 | 31.7 | 24.7 | 0.4 | 1 | 2 | 1013 | 1012 | -1 | NM | | 24/04/2021 21:17 | 8.14 | 1024 | 10.3 |
| 27/04/2021 00:03 | 31.7 | 24.7 | 0.4 | 1 | 2 | 1013 | 1012 | -1 | NM | | 24/04/2021 22:17 | 8.14 | 1024 | 9.1 |
| 27/04/2021 01:33 | 31.7 | 24.7 | 0.4 | 1 | 2 | 1012 | 1011 | -1 | NM | | 24/04/2021 23:17 | 8.14 | 1024 | 8.2 |
| 27/04/2021 03:03 | 31.3 | 24.4 | 0.4 | 1 | 2 | 1011 | 1010 | -1 | NM | | 25/04/2021 00:17 | 8.13 | 1024 | 7.5 |
| 27/04/2021 04:33 | 31.7 | 24.7 | 0.4 | 1 | 2 | 1010 | 1010 | 0 | NM | | 25/04/2021 01:17 | 8.13 | 1024 | 7.1 |
| 27/04/2021 06:03 | 31.3 | 24.3 | 0.4 | 1 | 2 | 1010 | 1009 | -1 | NM | | 25/04/2021 02:17 | 8.13 | 1024 | 6.6 |
| 27/04/2021 07:33 | 31.3 | 24.4 | 0.4 | 1 | 2 | 1009 | 1009 | 0 | NM | | 25/04/2021 03:17 | 8.13 | 1024 | 6.3 |

| Date and Time | $CH_4$ % v/v | $CO_2$ % v/v | $O_2$ % v/v | $H_2S$ ppm/v | CO ppm/v | Borehole Pressure mbar | Atmospheric Pressure mbar | Differential Pressure mbar | Flow Ltr/hr |
|---|---|---|---|---|---|---|---|---|---|
| 27/04/2021 09:03 | 31.3 | 24.4 | 0.4 | 1 | 2 | 1009 | 1008 | -1 | NM |
| 27/04/2021 10:33 | 31.7 | 24.7 | 0.4 | 1 | 2 | 1008 | 1007 | -1 | NM |
| 27/04/2021 12:03 | 34.9 | 24.7 | 0.3 | 1 | 2 | 1007 | 1006 | -1 | NM |
| 27/04/2021 13:33 | 41.6 | 25.8 | 0.3 | 1 | 2 | 1007 | 1006 | -1 | NM |
| 27/04/2021 15:03 | 44.0 | 25.8 | 0.3 | 1 | 2 | 1006 | 1005 | -1 | NM |
| 27/04/2021 16:33 | 46.3 | 26.2 | 0.3 | 1 | 2 | 1005 | 1004 | -1 | NM |
| 27/04/2021 18:03 | 46.3 | 26.5 | 0.3 | 1 | 2 | 1005 | 1004 | -1 | NM |
| 27/04/2021 19:33 | 46.3 | 26.2 | 0.3 | 1 | 2 | 1004 | 1003 | -1 | NM |
| 27/04/2021 21:03 | 44.0 | 26.2 | 0.3 | 1 | 2 | 1004 | 1003 | -1 | NM |
| 27/04/2021 22:33 | 43.2 | 25.8 | 0.3 | 1 | 2 | 1004 | 1003 | -1 | NM |
| 28/04/2021 00:03 | 41.6 | 25.8 | 0.3 | 1 | 2 | 1004 | 1003 | -1 | NM |
| 28/04/2021 01:33 | 39.2 | 25.5 | 0.3 | 1 | 2 | 1003 | 1002 | -1 | NM |
| 28/04/2021 03:03 | 38.8 | 25.5 | 0.3 | 1 | 2 | 1002 | 1001 | -1 | NM |
| 28/04/2021 04:33 | 37.2 | 25.1 | 0.3 | 1 | 2 | 1002 | 1001 | -1 | NM |
| 28/04/2021 06:03 | 36.8 | 25.1 | 0.3 | 1 | 2 | 1001 | 1000 | -1 | NM |
| 28/04/2021 07:33 | 36.4 | 25.1 | 0.3 | 1 | 2 | 1001 | 1000 | -1 | NM |
| 28/04/2021 09:03 | 35.6 | 25.1 | 0.3 | 1 | 2 | 1001 | 1000 | -1 | NM |
| 28/04/2021 10:33 | 34.9 | 25.1 | 0.3 | 1 | 2 | 1001 | 1000 | -1 | NM |
| 28/04/2021 12:03 | 34.9 | 24.7 | 0.3 | 1 | 2 | 1001 | 1000 | -1 | NM |
| 28/04/2021 13:33 | 34.5 | 25.1 | 0.3 | 1 | 2 | 1002 | 1001 | -1 | NM |
| 28/04/2021 15:03 | 34.1 | 25.1 | 0.3 | 1 | 2 | 1002 | 1001 | -1 | NM |
| 28/04/2021 16:33 | 33.7 | 24.7 | 0.3 | 1 | 2 | 1002 | 1001 | -1 | NM |
| 28/04/2021 18:03 | 33.7 | 24.7 | 0.3 | 1 | 2 | 1003 | 1002 | -1 | NM |
| 28/04/2021 19:33 | 33.3 | 25.1 | 0.3 | 1 | 2 | 1003 | 1002 | -1 | NM |
| 28/04/2021 21:03 | 32.9 | 24.7 | 0.3 | 1 | 2 | 1004 | 1003 | -1 | NM |
| 28/04/2021 22:33 | 32.5 | 24.7 | 0.3 | 1 | 2 | 1005 | 1004 | -1 | NM |
| 29/04/2021 00:03 | 32.9 | 24.7 | 0.3 | 1 | 2 | 1005 | 1004 | -1 | NM |
| 29/04/2021 01:33 | 32.5 | 25.1 | 0.3 | 1 | 2 | 1005 | 1005 | 0 | NM |
| 29/04/2021 03:03 | 32.9 | 24.7 | 0.3 | 1 | 2 | 1006 | 1005 | -1 | NM |
| 29/04/2021 04:33 | 32.1 | 24.7 | 0.3 | 1 | 2 | 1006 | 1005 | -1 | NM |
| 29/04/2021 06:03 | 32.1 | 24.7 | 0.3 | 1 | 2 | 1007 | 1006 | -1 | NM |
| 29/04/2021 07:33 | 32.5 | 24.7 | 0.3 | 1 | 2 | 1008 | 1007 | -1 | NM |
| 29/04/2021 09:03 | 32.1 | 24.7 | 0.3 | 1 | 2 | 1008 | 1007 | -1 | NM |
| 29/04/2021 10:33 | 32.1 | 24.7 | 0.3 | 1 | 2 | 1009 | 1008 | -1 | NM |
| 29/04/2021 10:01 | 30.9 | 21.6 | 3.9 | 1 | 0 | 1008 | 1008 | 0 | 0.20 |
| 29/04/2021 11:01 | 31.1 | 22.6 | 1.8 | 1 | 0 | 1008 | 1008 | 0 | 0.17 |
| 29/04/2021 12:01 | 31.2 | 22.8 | 1.1 | 1 | 0 | 1009 | 1009 | 0 | 0.20 |
| 29/04/2021 13:01 | 31.1 | 22.9 | 0.6 | 1 | 0 | 1009 | 1009 | 0 | 0.19 |
| 29/04/2021 14:01 | 31.1 | 23.0 | 0.3 | 1 | 0 | 1009 | 1009 | 0 | 0.26 |
| 29/04/2021 15:01 | 31.1 | 22.9 | 0.3 | 1 | 0 | 1009 | 1009 | 0 | 0.20 |
| 29/04/2021 16:01 | 31.2 | 23.2 | 0.2 | 1 | 0 | 1009 | 1009 | 0 | 0.19 |
| 29/04/2021 17:01 | 31.4 | 23.6 | 0.2 | 1 | 0 | 1009 | 1009 | 0 | 0.21 |
| 29/04/2021 18:01 | 31.5 | 23.7 | 0.2 | 1 | 0 | 1009 | 1009 | 0 | 0.24 |
| 29/04/2021 19:01 | 31.5 | 23.6 | 0.2 | 1 | 0 | 1010 | 1009 | 0 | 0.20 |
| 29/04/2021 20:01 | 31.5 | 23.8 | 0.2 | 1 | 0 | 1010 | 1010 | 0 | 0.18 |
| 29/04/2021 21:01 | 31.4 | 23.6 | 0.2 | 1 | 0 | 1010 | 1010 | 0 | 0.20 |
| 29/04/2021 22:01 | 31.2 | 23.3 | 0.2 | 1 | 0 | 1010 | 1010 | 0 | 0.21 |
| 29/04/2021 23:01 | 31.1 | 23.2 | 0.2 | 1 | 0 | 1010 | 1011 | 0 | 0.17 |
| 30/04/2021 00:01 | 31.1 | 23.1 | 0.1 | 1 | 0 | 1010 | 1011 | 0 | 0.23 |
| 30/04/2021 01:01 | 31.1 | 23.1 | 0.1 | 1 | 0 | 1010 | 1011 | 0 | 0.21 |
| 30/04/2021 02:01 | 31.1 | 23.2 | 0.3 | 1 | 0 | 1011 | 1011 | 0 | 0.22 |
| 30/04/2021 03:01 | 31.1 | 23.2 | 0.1 | 1 | 0 | 1010 | 1011 | 0 | 0.19 |
| 30/04/2021 04:01 | 31.1 | 23.3 | 0.1 | 1 | 0 | 1010 | 1011 | 0 | 0.23 |
| 30/04/2021 05:01 | 31.1 | 23.1 | 0.1 | 1 | 0 | 1011 | 1011 | 0 | 0.16 |
| 30/04/2021 06:01 | 31.1 | 23.2 | 0.2 | 1 | 0 | 1011 | 1011 | 0 | 0.18 |
| 30/04/2021 07:01 | 31.1 | 23.1 | 0.2 | 1 | 0 | 1011 | 1012 | 0 | 0.21 |
| 30/04/2021 08:01 | 31.1 | 23.3 | 0.2 | 1 | 0 | 1012 | 1012 | 0 | 0.20 |
| 30/04/2021 09:01 | 31.0 | 23.2 | 0.2 | 1 | 0 | 1012 | 1012 | 0 | 0.25 |
| 30/04/2021 10:01 | 31.0 | 23.0 | 0.2 | 1 | 0 | 1012 | 1012 | 0 | 0.20 |
| 30/04/2021 11:01 | 31.1 | 23.1 | 0.2 | 1 | 0 | 1012 | 1012 | 0 | 0.22 |
| 30/04/2021 12:01 | 31.3 | 23.6 | 0.2 | 1 | 0 | 1012 | 1012 | 0 | 0.20 |
| 30/04/2021 13:01 | 31.7 | 24.1 | 0.2 | 1 | 0 | 1012 | 1012 | 0 | 0.22 |
| 30/04/2021 14:01 | 31.9 | 24.5 | 0.2 | 0 | 0 | 1013 | 1012 | -1 | 0.37 |
| 30/04/2021 15:01 | 31.7 | 24.1 | 0.1 | 1 | 0 | 1012 | 1012 | 0 | 0.34 |
| 30/04/2021 16:01 | 31.2 | 23.5 | 0.2 | 0 | 0 | 1012 | 1012 | 0 | 0.25 |
| 30/04/2021 17:01 | 31.1 | 23.2 | 0.2 | 0 | 0 | 1013 | 1012 | 0 | 0.20 |
| 30/04/2021 18:01 | 31.2 | 23.2 | 0.2 | 1 | 0 | 1013 | 1012 | -1 | 0.22 |
| 30/04/2021 19:01 | 31.4 | 23.6 | 0.1 | 1 | 0 | 1013 | 1012 | -1 | 0.29 |
| 30/04/2021 20:01 | 31.6 | 23.8 | 0.1 | 1 | 0 | 1013 | 1012 | -1 | 0.21 |
| 30/04/2021 21:01 | 31.4 | 23.6 | 0.1 | 1 | 0 | 1013 | 1012 | 0 | 0.20 |
| 30/04/2021 22:01 | 31.2 | 23.1 | 0.1 | 1 | 0 | 1013 | 1013 | 0 | 0.19 |
| 30/04/2021 23:01 | 31.1 | 23.2 | 0.1 | 1 | 0 | 1013 | 1013 | 0 | 0.22 |
| 01/05/2021 00:01 | 31.1 | 23.1 | 0.1 | 1 | 0 | 1013 | 1013 | 0 | 0.27 |
| 01/05/2021 01:01 | 31.1 | 23.2 | 0.1 | 1 | 0 | 1013 | 1012 | 0 | 0.27 |
| 01/05/2021 02:01 | 31.1 | 23.3 | 0.1 | 1 | 0 | 1012 | 1012 | 0 | 0.25 |
| 01/05/2021 03:01 | 31.1 | 23.2 | 0.1 | 1 | 0 | 1012 | 1012 | 0 | 0.23 |
| 01/05/2021 04:01 | 31.1 | 23.2 | 0.1 | 1 | 0 | 1012 | 1012 | 0 | 0.26 |
| 01/05/2021 05:01 | 31.1 | 23.1 | 0.1 | 1 | 0 | 1012 | 1012 | 0 | 0.20 |
| 01/05/2021 06:01 | 31.1 | 23.2 | 0.1 | 1 | 0 | 1013 | 1013 | 0 | 0.16 |
| 01/05/2021 07:01 | 31.1 | 23.2 | 0.1 | 1 | 0 | 1013 | 1013 | 0 | 0.19 |
| 01/05/2021 08:01 | 31.1 | 23.2 | 0.1 | 1 | 0 | 1013 | 1013 | 0 | 0.22 |
| 01/05/2021 09:01 | 31.0 | 23.2 | 0.1 | 1 | 0 | 1013 | 1013 | 0 | 0.23 |
| 01/05/2021 10:01 | 31.0 | 23.1 | 0.1 | 1 | 0 | 1014 | 1013 | 0 | 0.17 |
| 01/05/2021 11:01 | 31.0 | 23.1 | 0.2 | 1 | 0 | 1014 | 1013 | -1 | 0.15 |
| 01/05/2021 12:01 | 31.3 | 23.5 | 0.2 | 1 | 0 | 1014 | 1013 | -1 | 0.13 |
| 01/05/2021 13:01 | 31.7 | 24.0 | 0.1 | 1 | 0 | 1014 | 1013 | -1 | 0.17 |
| 01/05/2021 14:01 | 31.9 | 24.3 | 0.1 | 1 | 0 | 1014 | 1013 | -1 | 0.29 |
| 01/05/2021 15:01 | 31.9 | 24.3 | 0.1 | 1 | 0 | 1014 | 1014 | 0 | 0.22 |
| 01/05/2021 16:01 | 31.9 | 24.3 | 0.1 | 1 | 0 | 1014 | 1014 | -1 | 0.29 |
| 01/05/2021 17:01 | 32.0 | 24.5 | 0.1 | 1 | 0 | 1014 | 1014 | -1 | 0.21 |
| 01/05/2021 18:01 | 31.9 | 24.4 | 0.1 | 1 | 0 | 1015 | 1014 | -1 | 0.24 |
| 01/05/2021 19:01 | 31.8 | 24.4 | 0.1 | 1 | 0 | 1015 | 1015 | -1 | 0.16 |
| 01/05/2021 20:01 | 31.6 | 24.0 | 0.1 | 1 | 0 | 1016 | 1015 | -1 | 0.23 |
| 01/05/2021 21:01 | 31.5 | 23.9 | 0.1 | 1 | 0 | 1016 | 1015 | -1 | 0.24 |
| 01/05/2021 22:01 | 31.2 | 23.1 | 0.1 | 1 | 0 | 1016 | 1015 | -1 | 0.22 |
| 01/05/2021 23:01 | 31.1 | 23.3 | 0.1 | 1 | 0 | 1016 | 1016 | 0 | 0.16 |
| 02/05/2021 00:01 | 31.1 | 23.1 | 0.1 | 1 | 0 | 1016 | 1016 | 0 | 0.26 |
| 02/05/2021 01:01 | 31.1 | 23.1 | 0.1 | 1 | 0 | 1016 | 1016 | 0 | 0.22 |
| 02/05/2021 02:01 | 31.1 | 23.1 | 0.1 | 1 | 0 | 1016 | 1016 | 0 | 0.18 |
| 02/05/2021 03:01 | 31.1 | 23.2 | 0.1 | 1 | 0 | 1017 | 1016 | 0 | 0.22 |
| 02/05/2021 04:01 | 31.1 | 23.1 | 0.1 | 1 | 0 | 1017 | 1017 | 0 | 0.22 |
| 02/05/2021 05:01 | 31.1 | 23.1 | 0.1 | 1 | 0 | 1017 | 1017 | 0 | 0.15 |
| 02/05/2021 06:01 | 31.1 | 23.2 | 0.1 | 1 | 0 | 1018 | 1018 | 0 | 0.17 |
| 02/05/2021 07:01 | 31.1 | 23.2 | 0.1 | 1 | 0 | 1018 | 1018 | 0 | 0.13 |
| 02/05/2021 08:01 | 31.1 | 23.2 | 0.1 | 1 | 0 | 1019 | 1019 | 0 | 0.22 |
| 02/05/2021 09:01 | 31.1 | 23.1 | 0.1 | 1 | 0 | 1019 | 1019 | 0 | 0.15 |
| 02/05/2021 10:01 | 31.3 | 23.7 | 0.1 | 1 | 0 | 1019 | 1019 | 0 | 0.20 |
| 02/05/2021 11:01 | 31.9 | 24.3 | 0.1 | 1 | 0 | 1019 | 1019 | 0 | 0.19 |
| 02/05/2021 12:01 | 32.2 | 24.6 | 0.1 | 1 | 0 | 1020 | 1019 | -1 | 0.25 |
| 02/05/2021 13:01 | 32.4 | 25.0 | 0.1 | 0 | 0 | 1020 | 1019 | -1 | 0.38 |
| 02/05/2021 14:01 | 32.6 | 25.2 | 0.1 | 0 | 0 | 1020 | 1019 | -1 | 0.35 |
| 02/05/2021 15:01 | 32.7 | 25.3 | 0.1 | 0 | 0 | 1020 | 1019 | -1 | 0.40 |
| 02/05/2021 16:01 | 32.7 | 25.2 | 0.1 | 1 | 0 | 1020 | 1019 | -1 | 0.36 |
| 02/05/2021 17:01 | 32.6 | 25.3 | 0.1 | 1 | 0 | 1020 | 1019 | -1 | 0.38 |
| 02/05/2021 18:01 | 32.7 | 25.4 | 0.1 | 1 | 0 | 1020 | 1018 | -1 | 0.31 |
| 02/05/2021 19:01 | 32.7 | 25.3 | 0.1 | 1 | 0 | 1020 | 1019 | -1 | 0.24 |
| 02/05/2021 20:01 | 32.8 | 25.5 | 0.1 | 1 | 0 | 1020 | 1019 | -1 | 0.33 |
| 02/05/2021 21:01 | 32.8 | 25.4 | 0.1 | 1 | 0 | 1020 | 1019 | -1 | 0.39 |
| 02/05/2021 22:01 | 32.7 | 25.3 | 0.0 | 1 | 0 | 1020 | 1019 | -1 | 0.32 |
| 02/05/2021 23:01 | 32.6 | 25.3 | 0.0 | 1 | 0 | 1020 | 1019 | -1 | 0.35 |
| 03/05/2021 00:01 | 32.2 | 24.9 | 0.0 | 1 | 0 | 1020 | 1019 | -1 | 0.29 |
| 03/05/2021 01:01 | 31.5 | 23.9 | 0.1 | 1 | 0 | 1019 | 1019 | -1 | 0.21 |
| 03/05/2021 02:01 | 31.2 | 23.3 | 0.0 | 1 | 0 | 1019 | 1019 | -1 | 0.26 |
| 03/05/2021 03:01 | 31.1 | 23.1 | 0.0 | 1 | 0 | 1019 | 1018 | -1 | 0.32 |
| 03/05/2021 04:01 | 31.1 | 23.1 | 0.1 | 1 | 0 | 1018 | 1018 | 0 | 0.27 |
| 03/05/2021 05:01 | 31.1 | 23.0 | 0.1 | 1 | 0 | 1018 | 1018 | -1 | 0.18 |

| Date and Time | Water Level mbgl | Atmospheric Pressure mbar | Temperature °C |
|---|---|---|---|
| 25/04/2021 04:17 | 8.13 | 1024 | 6.1 |
| 25/04/2021 05:17 | 8.14 | 1024 | 6.0 |
| 25/04/2021 06:17 | 8.14 | 1025 | 7.4 |
| 25/04/2021 07:17 | 8.14 | 1025 | 9.1 |
| 25/04/2021 08:17 | 8.14 | 1025 | 10.7 |
| 25/04/2021 09:17 | 8.14 | 1025 | 12.2 |
| 25/04/2021 10:17 | 8.14 | 1025 | 13.5 |
| 25/04/2021 11:17 | 8.14 | 1025 | 14.7 |
| 25/04/2021 12:17 | 8.14 | 1025 | 15.4 |
| 25/04/2021 13:17 | 8.14 | 1024 | 16.3 |
| 25/04/2021 14:17 | 8.14 | 1024 | 16.5 |
| 25/04/2021 15:17 | 8.14 | 1023 | 16.6 |
| 25/04/2021 16:17 | 8.14 | 1022 | 16.6 |
| 25/04/2021 17:17 | 8.14 | 1022 | 15.7 |
| 25/04/2021 18:17 | 8.14 | 1022 | 14.4 |
| 25/04/2021 19:17 | 8.14 | 1022 | 11.8 |
| 25/04/2021 20:17 | 8.14 | 1023 | 10.1 |
| 25/04/2021 21:17 | 8.14 | 1023 | 8.7 |
| 25/04/2021 22:17 | 8.14 | 1022 | 7.6 |
| 25/04/2021 23:17 | 8.14 | 1022 | 6.7 |
| 26/04/2021 00:17 | 8.14 | 1022 | 6.0 |
| 26/04/2021 01:17 | 8.14 | 1022 | 5.4 |
| 26/04/2021 02:17 | 8.14 | 1021 | 4.9 |
| 26/04/2021 03:17 | 8.14 | 1021 | 4.5 |
| 26/04/2021 04:17 | 8.14 | 1021 | 4.2 |
| 26/04/2021 05:17 | 8.14 | 1020 | 4.0 |
| 26/04/2021 06:17 | 8.14 | 1020 | 6.0 |
| 26/04/2021 07:17 | 8.14 | 1020 | 7.9 |
| 26/04/2021 08:17 | 8.14 | 1020 | 8.9 |
| 26/04/2021 09:17 | 8.15 | 1020 | 10.8 |
| 26/04/2021 10:17 | 8.15 | 1019 | 12.3 |
| 26/04/2021 11:17 | 8.15 | 1018 | 13.7 |
| 26/04/2021 12:17 | 8.14 | 1017 | 15.0 |
| 26/04/2021 13:17 | 8.15 | 1017 | 16.0 |
| 26/04/2021 14:17 | 8.14 | 1015 | 16.9 |
| 26/04/2021 15:17 | 8.14 | 1015 | 17.3 |
| 26/04/2021 16:17 | 8.14 | 1014 | 17.3 |
| 26/04/2021 17:17 | 8.15 | 1014 | 16.6 |
| 26/04/2021 18:17 | 8.14 | 1013 | 15.1 |
| 26/04/2021 19:17 | 8.14 | 1013 | 12.3 |
| 26/04/2021 20:17 | 8.14 | 1013 | 10.3 |
| 26/04/2021 21:17 | 8.14 | 1013 | 9.1 |
| 26/04/2021 22:17 | 8.14 | 1013 | 8.1 |
| 26/04/2021 23:17 | 8.14 | 1013 | 7.0 |
| 27/04/2021 00:17 | 8.14 | 1012 | 6.1 |
| 27/04/2021 01:17 | 8.14 | 1012 | 5.3 |
| 27/04/2021 02:17 | 8.14 | 1011 | 4.5 |
| 27/04/2021 03:17 | 8.14 | 1011 | 4.0 |
| 27/04/2021 04:17 | 8.14 | 1010 | 3.7 |
| 27/04/2021 05:17 | 8.14 | 1010 | 3.5 |
| 27/04/2021 06:17 | 8.14 | 1010 | 5.9 |
| 27/04/2021 07:17 | 8.14 | 1009 | 8.6 |
| 27/04/2021 08:17 | 8.15 | 1009 | 11.0 |
| 27/04/2021 09:17 | 8.15 | 1009 | 13.2 |
| 27/04/2021 10:17 | 8.14 | 1008 | 14.8 |
| 27/04/2021 11:17 | 8.14 | 1007 | 15.4 |
| 27/04/2021 12:17 | 8.14 | 1007 | 15.9 |
| 27/04/2021 13:17 | 8.14 | 1006 | 16.4 |
| 27/04/2021 14:17 | 8.14 | 1006 | 16.5 |
| 27/04/2021 15:17 | 8.14 | 1005 | 16.3 |
| 27/04/2021 16:17 | 8.14 | 1005 | 15.6 |
| 27/04/2021 17:17 | 8.14 | 1004 | 14.5 |
| 27/04/2021 18:17 | 8.14 | 1004 | 13.6 |
| 27/04/2021 19:17 | 8.14 | 1004 | 11.7 |
| 27/04/2021 20:17 | 8.14 | 1004 | 10.4 |
| 27/04/2021 21:17 | 8.14 | 1004 | 9.8 |
| 27/04/2021 22:17 | 8.15 | 1004 | 9.2 |
| 27/04/2021 23:17 | 8.14 | 1004 | 8.8 |
| 28/04/2021 00:17 | 8.14 | 1003 | 8.8 |
| 28/04/2021 01:17 | 8.14 | 1003 | 8.9 |
| 28/04/2021 02:17 | 8.14 | 1002 | 8.6 |
| 28/04/2021 03:17 | 8.14 | 1002 | 8.3 |
| 28/04/2021 04:17 | 8.14 | 1002 | 8.2 |
| 28/04/2021 05:17 | 8.14 | 1001 | 7.9 |
| 28/04/2021 06:17 | 8.14 | 1001 | 8.2 |
| 28/04/2021 07:17 | 8.14 | 1001 | 8.7 |
| 28/04/2021 08:17 | 8.14 | 1001 | 10.1 |
| 28/04/2021 09:17 | 8.15 | 1001 | 12.3 |
| 28/04/2021 10:17 | 8.15 | 1002 | 13.4 |
| 28/04/2021 11:17 | 8.15 | 1002 | 12.3 |
| 28/04/2021 12:17 | 8.14 | 1002 | 11.0 |
| 28/04/2021 13:17 | 8.15 | 1002 | 11.3 |
| 28/04/2021 14:17 | 8.15 | 1002 | 11.6 |
| 28/04/2021 15:17 | 8.15 | 1003 | 14.1 |
| 28/04/2021 16:17 | 8.15 | 1003 | 13.0 |
| 28/04/2021 17:17 | 8.15 | 1003 | 10.4 |
| 28/04/2021 18:17 | 8.15 | 1003 | 9.5 |
| 28/04/2021 19:17 | 8.15 | 1004 | 8.9 |
| 28/04/2021 20:17 | 8.15 | 1004 | 8.5 |
| 28/04/2021 21:17 | 8.15 | 1005 | 8.0 |
| 28/04/2021 22:17 | 8.15 | 1005 | 7.9 |
| 28/04/2021 23:17 | 8.15 | 1005 | 7.8 |
| 29/04/2021 00:17 | 8.15 | 1005 | 7.3 |
| 29/04/2021 01:17 | 8.15 | 1006 | 6.7 |
| 29/04/2021 02:17 | 8.15 | 1006 | 6.3 |
| 29/04/2021 03:17 | 8.15 | 1006 | 6.6 |
| 29/04/2021 04:17 | 8.15 | 1006 | 6.1 |
| 29/04/2021 05:17 | 8.15 | 1007 | 5.4 |
| 29/04/2021 06:17 | 8.15 | 1008 | 6.6 |
| 29/04/2021 07:17 | 8.16 | 1008 | 8.6 |
| 29/04/2021 08:17 | 8.16 | 1009 | 10.6 |
| 29/04/2021 09:17 | 8.16 | 1009 | 11.0 |
| 29/04/2021 10:17 | 8.16 | 1009 | 12.8 |
| 29/04/2021 11:17 | 8.16 | 1009 | 13.1 |
| 29/04/2021 12:17 | 8.16 | 1009 | 15.1 |
| 29/04/2021 13:17 | 8.16 | 1009 | 14.8 |
| 29/04/2021 14:17 | 8.16 | 1009 | 14.8 |
| 29/04/2021 15:17 | 8.16 | 1009 | 16.8 |
| 29/04/2021 16:17 | 8.16 | 1010 | 15.2 |
| 29/04/2021 17:17 | 8.16 | 1010 | 12.9 |
| 29/04/2021 18:17 | 8.16 | 1010 | 12.6 |
| 29/04/2021 19:17 | 8.16 | 1010 | 8.8 |
| 29/04/2021 20:17 | 8.16 | 1010 | 6.3 |
| 29/04/2021 21:17 | 8.16 | 1011 | 4.9 |
| 29/04/2021 22:17 | 8.16 | 1011 | 4.1 |
| 29/04/2021 23:17 | 8.16 | 1011 | 3.4 |
| 30/04/2021 00:17 | 8.16 | 1011 | 3.0 |
| 30/04/2021 01:17 | 8.16 | 1011 | 2.6 |
| 30/04/2021 02:17 | 8.16 | 1011 | 2.8 |
| 30/04/2021 03:17 | 8.16 | 1011 | 3.1 |
| 30/04/2021 04:17 | 8.16 | 1011 | 3.2 |
| 30/04/2021 05:17 | 8.16 | 1012 | 3.7 |
| 30/04/2021 06:17 | 8.16 | 1012 | 5.0 |
| 30/04/2021 07:17 | 8.17 | 1012 | 8.2 |
| 30/04/2021 08:17 | 8.17 | 1012 | 11.1 |
| 30/04/2021 09:17 | 8.17 | 1012 | 16.0 |

| Date and Time | $CH_4$ % v/v | $CO_2$ % v/v | $O_2$ % v/v | $H_2S$ ppm/v | CO ppm/v | Borehole Pressure mbar | Atmospheric Pressure mbar | Differential Pressure mbar | Flow Ltr/hr |
|---|---|---|---|---|---|---|---|---|---|
| 03/05/2021 06:01 | 31.1 | 23.0 | 0.1 | 1 | 0 | 1018 | 1017 | 0 | 0.30 |
| 03/05/2021 07:01 | 31.1 | 23.0 | 0.1 | 1 | 0 | 1017 | 1017 | 0 | 0.23 |
| 03/05/2021 08:01 | 31.6 | 23.8 | 0.1 | 1 | 0 | 1017 | 1017 | 0 | 0.29 |
| 03/05/2021 09:01 | 32.1 | 24.4 | 0.0 | 1 | 0 | 1016 | 1016 | 0 | 0.38 |
| 03/05/2021 10:01 | 32.5 | 24.9 | 0.1 | 1 | 0 | 1016 | 1015 | -1 | 0.27 |
| 03/05/2021 11:01 | 32.7 | 25.1 | 0.1 | 1 | 0 | 1015 | 1014 | -1 | 0.37 |
| 03/05/2021 12:01 | 32.9 | 25.3 | 0.0 | 1 | 0 | 1014 | 1013 | -1 | 0.42 |
| 03/05/2021 13:01 | 33.0 | 25.4 | 0.0 | 1 | 0 | 1013 | 1012 | -1 | 0.70 |
| 03/05/2021 14:01 | 33.0 | 25.3 | 0.0 | 1 | 0 | 1011 | 1010 | -1 | 0.54 |
| 03/05/2021 15:01 | 33.1 | 25.7 | 0.0 | 1 | 0 | 1010 | 1008 | -1 | 0.32 |
| 03/05/2021 16:01 | 33.1 | 25.7 | 0.0 | 1 | 0 | 1008 | 1007 | -1 | 0.53 |
| 03/05/2021 17:01 | 33.1 | 25.4 | 0.0 | 1 | 0 | 1006 | 1005 | -1 | 0.52 |
| 03/05/2021 18:01 | 33.1 | 25.6 | 0.0 | 1 | 0 | 1004 | 1003 | -1 | 0.54 |
| 03/05/2021 19:01 | 33.1 | 25.6 | 0.0 | 1 | 0 | 1002 | 1001 | -1 | 0.40 |
| 03/05/2021 20:01 | 33.0 | 25.4 | 0.0 | 1 | 0 | 1000 | 999 | -1 | 0.44 |
| 03/05/2021 21:01 | 33.0 | 25.6 | 0.0 | 1 | 0 | 998 | 997 | -1 | 0.65 |
| 03/05/2021 22:01 | 33.0 | 25.6 | 0.0 | 1 | 0 | 997 | 996 | -1 | 0.48 |
| 03/05/2021 23:01 | 33.0 | 25.5 | 0.0 | 1 | 0 | 996 | 995 | -1 | 0.94 |
| 04/05/2021 00:01 | 33.0 | 25.3 | 0.0 | 1 | 0 | 995 | 995 | -1 | 0.67 |
| 04/05/2021 01:01 | 33.0 | 25.4 | 0.0 | 1 | 0 | 995 | 994 | -1 | 0.58 |
| 04/05/2021 02:01 | 33.0 | 25.2 | 0.0 | 1 | 0 | 995 | 994 | -1 | 0.55 |
| 04/05/2021 03:01 | 33.1 | 25.2 | 0.0 | 1 | 0 | 995 | 994 | -1 | 0.36 |
| 04/05/2021 04:01 | 33.1 | 25.4 | 0.0 | 1 | 0 | 995 | 994 | -1 | 0.55 |
| 04/05/2021 05:01 | 33.1 | 25.5 | 0.0 | 1 | 0 | 996 | 995 | -1 | 0.26 |
| 04/05/2021 06:01 | 33.1 | 25.4 | 0.0 | 1 | 0 | 997 | 996 | -1 | 0.44 |
| 04/05/2021 07:01 | 33.1 | 25.4 | 0.0 | 1 | 0 | 998 | 997 | -1 | 0.40 |
| 04/05/2021 08:01 | 33.1 | 25.4 | 0.0 | 1 | 0 | 999 | 998 | -1 | 0.64 |
| 04/05/2021 09:01 | 33.0 | 25.2 | 0.0 | 1 | 0 | 1000 | 999 | -1 | 0.79 |
| 04/05/2021 10:01 | 33.0 | 25.3 | 0.0 | 1 | 0 | 1001 | 1000 | -1 | 0.52 |
| 04/05/2021 11:01 | 33.0 | 25.4 | 0.0 | 1 | 0 | 1002 | 1001 | -1 | 0.64 |
| 04/05/2021 12:01 | 32.9 | 25.3 | 0.0 | 1 | 0 | 1002 | 1001 | -1 | 0.66 |
| 04/05/2021 13:01 | 32.8 | 25.1 | 0.0 | 1 | 0 | 1003 | 1002 | -1 | 0.54 |
| 04/05/2021 14:01 | 32.8 | 25.1 | 0.0 | 1 | 0 | 1003 | 1002 | -1 | 0.39 |
| 04/05/2021 15:01 | 32.7 | 25.1 | 0.0 | 1 | 0 | 1003 | 1002 | -1 | 0.43 |
| 04/05/2021 16:01 | 32.8 | 24.9 | 0.0 | 1 | 0 | 1003 | 1002 | -1 | 0.53 |
| 04/05/2021 17:01 | 32.8 | 25.2 | 0.0 | 1 | 0 | 1003 | 1003 | -1 | 0.49 |
| 04/05/2021 18:01 | 32.7 | 24.9 | 0.0 | 1 | 0 | 1004 | 1002 | -1 | 0.54 |
| 04/05/2021 19:01 | 32.3 | 24.6 | 0.0 | 1 | 0 | 1004 | 1003 | -1 | 0.58 |
| 04/05/2021 20:01 | 32.5 | 24.6 | 0.0 | 1 | 0 | 1004 | 1004 | -1 | 0.36 |
| 04/05/2021 21:01 | 32.6 | 24.9 | 0.0 | 1 | 0 | 1004 | 1004 | 0 | 0.40 |
| 04/05/2021 22:01 | 32.6 | 24.8 | 0.0 | 1 | 0 | 1004 | 1004 | 0 | 0.39 |
| 04/05/2021 23:01 | 32.6 | 24.8 | 0.0 | 1 | 0 | 1005 | 1004 | 0 | 0.38 |
| 05/05/2021 00:01 | 32.5 | 24.7 | 0.0 | 1 | 0 | 1005 | 1004 | 0 | 0.45 |
| 05/05/2021 01:01 | 32.1 | 24.2 | 0.0 | 1 | 0 | 1005 | 1004 | 0 | 0.27 |
| 05/05/2021 02:01 | 31.8 | 23.9 | 0.0 | 1 | 0 | 1005 | 1004 | 0 | 0.29 |
| 05/05/2021 03:01 | 31.5 | 23.5 | 0.0 | 1 | 0 | 1005 | 1005 | 0 | 0.23 |
| 05/05/2021 04:01 | 31.5 | 23.4 | 0.0 | 1 | 0 | 1005 | 1005 | 0 | 0.26 |
| 05/05/2021 05:01 | 31.6 | 23.4 | 0.0 | 1 | 0 | 1006 | 1006 | 0 | 0.21 |
| 05/05/2021 06:01 | 31.5 | 23.4 | 0.0 | 1 | 0 | 1006 | 1006 | 0 | 0.25 |
| 05/05/2021 07:01 | 31.3 | 23.4 | 0.0 | 1 | 0 | 1007 | 1007 | 0 | 0.21 |
| 05/05/2021 08:01 | 31.2 | 22.9 | 0.0 | 1 | 0 | 1007 | 1008 | 0 | 0.14 |
| 05/05/2021 09:01 | 31.7 | 23.7 | 0.0 | 1 | 0 | 1008 | 1008 | 0 | 0.26 |
| 05/05/2021 10:01 | 31.9 | 24.0 | 0.0 | 1 | 0 | 1009 | 1008 | 0 | 0.30 |
| 05/05/2021 11:01 | 32.1 | 24.2 | 0.0 | 1 | 0 | 1009 | 1009 | 0 | 0.35 |
| 05/05/2021 12:01 | 32.2 | 24.4 | 0.0 | 1 | 0 | 1009 | 1009 | 0 | 0.40 |
| 05/05/2021 13:01 | 32.4 | 24.6 | 0.0 | 1 | 0 | 1009 | 1009 | 0 | 0.41 |
| 05/05/2021 14:01 | 32.6 | 24.7 | 0.0 | 1 | 0 | 1010 | 1009 | 0 | 0.62 |
| 05/05/2021 15:01 | 32.7 | 24.9 | 0.0 | 1 | 0 | 1009 | 1009 | 0 | 0.55 |
| 05/05/2021 16:01 | 32.8 | 24.9 | 0.0 | 1 | 0 | 1008 | 1008 | 0 | 0.57 |
| 05/05/2021 17:01 | 32.9 | 25.0 | 0.0 | 1 | 0 | 1009 | 1009 | 0 | 0.72 |
| 05/05/2021 18:01 | 32.9 | 25.2 | 0.0 | 1 | 0 | 1009 | 1009 | 0 | 0.46 |
| 05/05/2021 19:01 | 32.5 | 24.5 | 0.0 | 1 | 0 | 1009 | 1008 | 0 | 0.33 |
| 05/05/2021 20:01 | 32.3 | 24.4 | 0.0 | 1 | 0 | 1009 | 1009 | 0 | 0.26 |
| 05/05/2021 21:01 | 32.0 | 24.0 | 0.0 | 1 | 0 | 1009 | 1009 | 0 | 0.21 |
| 05/05/2021 22:01 | 31.5 | 23.4 | 0.0 | 1 | 0 | 1008 | 1008 | 0 | 0.29 |
| 05/05/2021 23:01 | 31.2 | 22.9 | 0.0 | 1 | 0 | 1008 | 1008 | 0 | 0.29 |
| 06/05/2021 00:01 | 31.1 | 22.7 | 0.0 | 1 | 0 | 1007 | 1008 | 0 | 0.30 |
| 06/05/2021 01:01 | 31.1 | 22.6 | 0.0 | 1 | 0 | 1007 | 1007 | 0 | 0.40 |
| 06/05/2021 02:01 | 31.1 | 22.7 | 0.0 | 1 | 0 | 1006 | 1006 | 0 | 0.27 |
| 06/05/2021 03:01 | 31.1 | 22.6 | 0.0 | 1 | 0 | 1005 | 1006 | 0 | 0.34 |
| 06/05/2021 04:01 | 31.1 | 22.6 | 0.0 | 1 | 0 | 1005 | 1005 | 0 | 0.41 |
| 06/05/2021 05:01 | 31.1 | 22.7 | 0.0 | 1 | 0 | 1004 | 1004 | 0 | 0.35 |
| 06/05/2021 06:01 | 31.1 | 22.7 | 0.0 | 1 | 0 | 1004 | 1004 | 0 | 0.31 |
| 06/05/2021 07:01 | 31.1 | 22.6 | 0.0 | 1 | 0 | 1004 | 1004 | 0 | 0.26 |
| 06/05/2021 08:01 | 31.1 | 22.7 | 0.0 | 1 | 0 | 1003 | 1004 | 0 | 0.26 |
| 06/05/2021 09:01 | 31.0 | 22.6 | 0.0 | 1 | 0 | 1003 | 1004 | 0 | 0.17 |
| 06/05/2021 10:01 | 31.0 | 22.6 | 0.0 | 1 | 0 | 1003 | 1004 | 0 | 0.16 |
| 06/05/2021 11:01 | 31.1 | 22.7 | 0.0 | 1 | 0 | 1003 | 1004 | 0 | 0.24 |
| 06/05/2021 12:01 | 31.3 | 23.1 | 0.0 | 1 | 0 | 1003 | 1004 | 0 | 0.19 |
| 06/05/2021 13:01 | 31.7 | 23.6 | 0.0 | 1 | 0 | 1004 | 1004 | 0 | 0.32 |
| 06/05/2021 14:01 | 32.0 | 24.0 | 0.0 | 0 | 0 | 1004 | 1005 | 0 | 0.35 |
| 06/05/2021 15:01 | 32.1 | 24.2 | 0.0 | 0 | 0 | 1005 | 1005 | 0 | 0.30 |
| 06/05/2021 16:01 | 32.2 | 24.2 | 0.0 | 0 | 0 | 1005 | 1005 | 0 | 0.31 |
| 06/05/2021 17:01 | 32.2 | 24.4 | 0.0 | 0 | 0 | 1006 | 1006 | 0 | 0.22 |
| 06/05/2021 18:01 | 32.2 | 24.5 | 0.0 | 0 | 0 | 1006 | 1007 | 0 | 0.17 |
| 06/05/2021 19:01 | 32.3 | 24.6 | 0.0 | 1 | 0 | 1007 | 1007 | 0 | 0.21 |
| 06/05/2021 20:01 | 32.4 | 24.6 | 0.0 | 1 | 0 | 1008 | 1008 | 0 | 0.23 |
| 06/05/2021 21:01 | 32.5 | 24.5 | 0.0 | 1 | 0 | 1008 | 1009 | 0 | 0.26 |
| 06/05/2021 22:01 | 32.4 | 24.5 | 0.0 | 1 | 0 | 1009 | 1009 | 0 | 0.18 |
| 06/05/2021 23:01 | 32.1 | 24.2 | 0.0 | 1 | 0 | 1010 | 1010 | 0 | 0.14 |
| 07/05/2021 00:01 | 31.5 | 23.3 | 0.0 | 1 | 0 | 1010 | 1010 | 0 | 0.22 |
| 07/05/2021 01:01 | 31.2 | 23.0 | 0.0 | 1 | 0 | 1011 | 1011 | 1 | 0.21 |
| 07/05/2021 02:01 | 31.1 | 22.6 | 0.0 | 1 | 0 | 1011 | 1012 | 1 | 0.20 |
| 07/05/2021 03:01 | 31.1 | 22.9 | 0.0 | 1 | 0 | 1012 | 1012 | 1 | 0.24 |
| 07/05/2021 04:01 | 31.1 | 22.7 | 0.0 | 1 | 0 | 1012 | 1013 | 1 | 0.14 |
| 07/05/2021 05:01 | 31.1 | 22.7 | 0.0 | 1 | 0 | 1013 | 1014 | 1 | 0.18 |
| 07/05/2021 06:01 | 31.1 | 22.6 | 0.1 | 1 | 0 | 1014 | 1014 | 1 | 0.18 |
| 07/05/2021 07:01 | 31.1 | 22.8 | 0.1 | 1 | 0 | 1014 | 1015 | 1 | 0.17 |
| 07/05/2021 08:01 | 31.1 | 22.9 | 0.0 | 1 | 0 | 1015 | 1016 | 1 | 0.13 |
| 07/05/2021 09:01 | 31.6 | 23.5 | 0.0 | 1 | 0 | 1016 | 1016 | 1 | 0.20 |
| 07/05/2021 10:01 | 31.9 | 24.0 | 0.0 | 1 | 0 | 1016 | 1017 | 0 | 0.25 |
| 07/05/2021 11:01 | 32.1 | 24.4 | 0.0 | 0 | 0 | 1016 | 1017 | 0 | 0.02 |
| 07/05/2021 12:01 | 32.3 | 24.5 | 0.1 | 0 | 0 | 1017 | 1017 | 0 | 0.02 |
| 07/05/2021 13:01 | 32.5 | 24.8 | 0.1 | 0 | 0 | 1017 | 1017 | 0 | 0.21 |
| 07/05/2021 14:01 | 32.7 | 24.9 | 0.0 | 0 | 0 | 1017 | 1017 | 0 | 0.30 |
| 07/05/2021 15:01 | 32.7 | 25.0 | 0.0 | 0 | 0 | 1017 | 1017 | 0 | 0.59 |
| 07/05/2021 16:01 | 32.8 | 25.0 | 0.1 | 0 | 0 | 1017 | 1016 | 0 | 0.12 |
| 07/05/2021 17:01 | 32.9 | 24.9 | 0.0 | 0 | 0 | 1016 | 1016 | 0 | 0.30 |
| 07/05/2021 18:01 | 32.9 | 25.0 | 0.0 | 1 | 0 | 1016 | 1016 | 0 | 0.32 |
| 07/05/2021 19:01 | 33.0 | 25.2 | 0.0 | 1 | 0 | 1015 | 1015 | 0 | 0.39 |
| 07/05/2021 20:01 | 32.9 | 24.9 | 0.0 | 1 | 0 | 1015 | 1015 | 0 | 0.36 |
| 07/05/2021 21:01 | 32.7 | 25.0 | 0.0 | 1 | 0 | 1014 | 1014 | 0 | 0.41 |
| 07/05/2021 22:01 | 31.8 | 23.8 | 0.0 | 1 | 0 | 1014 | 1014 | 0 | 0.31 |
| 07/05/2021 23:01 | 31.2 | 23.2 | 0.0 | 1 | 0 | 1013 | 1013 | 0 | 0.31 |
| 08/05/2021 00:01 | 31.1 | 22.9 | 0.0 | 1 | 0 | 1011 | 1012 | 0 | 0.27 |
| 08/05/2021 01:01 | 31.1 | 22.7 | 0.0 | 1 | 0 | 1010 | 1010 | 0 | 0.21 |
| 08/05/2021 02:01 | 31.1 | 22.7 | 0.0 | 1 | 0 | 1009 | 1009 | 0 | 0.17 |
| 08/05/2021 03:01 | 31.1 | 22.7 | 0.0 | 1 | 0 | 1008 | 1008 | 0 | 0.23 |
| 08/05/2021 04:01 | 31.1 | 22.6 | 0.0 | 1 | 0 | 1006 | 1006 | 0 | 0.24 |
| 08/05/2021 05:01 | 31.3 | 23.0 | 0.1 | 1 | 0 | 1005 | 1005 | 0 | 0.27 |
| 08/05/2021 06:01 | 31.9 | 23.8 | 0.1 | 1 | 0 | 1004 | 1004 | 0 | 0.01 |
| 08/05/2021 07:01 | 32.2 | 24.2 | 0.1 | 1 | 0 | 1003 | 1003 | 0 | 0.04 |
| 08/05/2021 08:01 | 32.4 | 24.4 | 0.2 | 1 | 0 | 1003 | 1003 | 0 | 0.10 |
| 08/05/2021 09:01 | 32.5 | 24.6 | 0.2 | 1 | 0 | 1002 | 1003 | 0 | 0.23 |
| 08/05/2021 10:01 | 32.6 | 24.6 | 0.2 | 1 | 0 | 1002 | 1003 | 0 | 0.24 |
| 08/05/2021 11:01 | 32.7 | 24.7 | 0.1 | 1 | 0 | 1002 | 1003 | 0 | 0.33 |

| Date and Time | Water Level mbgl | Atmospheric Pressure mbar | Temperature °C |
|---|---|---|---|
| 30/04/2021 10:17 | 8.17 | 1012 | 15.3 |
| 30/04/2021 11:17 | 8.16 | 1012 | 13.3 |
| 30/04/2021 12:17 | 8.17 | 1012 | 15.3 |
| 30/04/2021 13:17 | 8.16 | 1012 | 19.7 |
| 30/04/2021 14:17 | 8.17 | 1012 | 13.0 |
| 30/04/2021 15:17 | 8.17 | 1012 | 15.0 |
| 30/04/2021 16:17 | 8.17 | 1012 | 18.1 |
| 30/04/2021 17:17 | 8.17 | 1012 | 14.8 |
| 30/04/2021 18:17 | 8.17 | 1012 | 12.0 |
| 30/04/2021 19:17 | 8.17 | 1012 | 8.8 |
| 30/04/2021 20:17 | 8.17 | 1013 | 6.4 |
| 30/04/2021 21:17 | 8.17 | 1013 | 4.9 |
| 30/04/2021 22:17 | 8.17 | 1013 | 4.0 |
| 30/04/2021 23:17 | 8.17 | 1013 | 3.2 |
| 01/05/2021 00:17 | 8.17 | 1013 | 2.5 |
| 01/05/2021 01:17 | 8.17 | 1013 | 1.8 |
| 01/05/2021 02:17 | 8.17 | 1012 | 1.1 |
| 01/05/2021 03:17 | 8.17 | 1012 | 0.7 |
| 01/05/2021 04:17 | 8.17 | 1012 | 0.3 |
| 01/05/2021 05:17 | 8.17 | 1013 | 0.7 |
| 01/05/2021 06:17 | 8.17 | 1013 | 2.4 |
| 01/05/2021 07:17 | 8.17 | 1014 | 7.2 |
| 01/05/2021 08:17 | 8.17 | 1014 | 11.3 |
| 01/05/2021 09:17 | 8.17 | 1013 | 15.8 |
| 01/05/2021 10:17 | 8.17 | 1013 | 17.7 |
| 01/05/2021 11:17 | 8.17 | 1013 | 12.7 |
| 01/05/2021 12:17 | 8.17 | 1013 | 11.3 |
| 01/05/2021 13:17 | 8.17 | 1014 | 10.4 |
| 01/05/2021 14:17 | 8.17 | 1013 | 11.8 |
| 01/05/2021 15:17 | 8.17 | 1014 | 13.6 |
| 01/05/2021 16:17 | 8.17 | 1014 | 11.9 |
| 01/05/2021 17:17 | 8.17 | 1014 | 10.5 |
| 01/05/2021 18:17 | 8.17 | 1014 | 11.5 |
| 01/05/2021 19:17 | 8.17 | 1015 | 9.1 |
| 01/05/2021 20:17 | 8.17 | 1015 | 6.9 |
| 01/05/2021 21:17 | 8.17 | 1015 | 6.4 |
| 01/05/2021 22:17 | 8.17 | 1015 | 6.1 |
| 01/05/2021 23:17 | 8.17 | 1016 | 4.7 |
| 02/05/2021 00:17 | 8.17 | 1016 | 3.4 |
| 02/05/2021 01:17 | 8.17 | 1016 | 2.5 |
| 02/05/2021 02:17 | 8.17 | 1016 | 1.8 |
| 02/05/2021 03:17 | 8.17 | 1016 | 1.2 |
| 02/05/2021 04:17 | 8.17 | 1017 | 1.1 |
| 02/05/2021 05:17 | 8.17 | 1017 | 1.5 |
| 02/05/2021 06:17 | 8.17 | 1018 | 3.2 |
| 02/05/2021 07:17 | 8.18 | 1018 | 6.5 |
| 02/05/2021 08:17 | 8.18 | 1019 | 10.9 |
| 02/05/2021 09:17 | 8.18 | 1019 | 15.0 |
| 02/05/2021 10:17 | 8.17 | 1018 | 18.6 |
| 02/05/2021 11:17 | 8.17 | 1018 | 18.9 |
| 02/05/2021 12:17 | 8.17 | 1018 | 15.6 |
| 02/05/2021 13:17 | 8.17 | 1018 | 15.4 |
| 02/05/2021 14:17 | 8.17 | 1018 | 17.5 |
| 02/05/2021 15:17 | 8.17 | 1018 | 19.8 |
| 02/05/2021 16:17 | 8.17 | 1018 | 16.7 |
| 02/05/2021 17:17 | 8.17 | 1018 | 14.1 |
| 02/05/2021 18:17 | 8.17 | 1018 | 12.5 |
| 02/05/2021 19:17 | 8.17 | 1018 | 10.0 |
| 02/05/2021 20:17 | 8.17 | 1019 | 7.5 |
| 02/05/2021 21:17 | 8.18 | 1019 | 7.9 |
| 02/05/2021 22:17 | 8.17 | 1019 | 7.1 |
| 02/05/2021 23:17 | 8.17 | 1019 | 5.6 |
| 03/05/2021 00:17 | 8.17 | 1019 | 4.6 |
| 03/05/2021 01:17 | 8.18 | 1019 | 3.8 |
| 03/05/2021 02:17 | 8.18 | 1018 | 3.2 |
| 03/05/2021 03:17 | 8.18 | 1018 | 3.3 |
| 03/05/2021 04:17 | 8.18 | 1017 | 3.1 |
| 03/05/2021 05:17 | 8.18 | 1017 | 3.2 |
| 03/05/2021 06:17 | 8.18 | 1017 | 5.5 |
| 03/05/2021 07:17 | 8.18 | 1017 | 9.5 |
| 03/05/2021 08:17 | 8.18 | 1017 | 12.0 |
| 03/05/2021 09:17 | 8.18 | 1016 | 14.8 |
| 03/05/2021 10:17 | 8.18 | 1015 | 16.8 |
| 03/05/2021 11:17 | 8.18 | 1014 | 18.3 |
| 03/05/2021 12:17 | 8.18 | 1013 | 17.2 |
| 03/05/2021 13:17 | 8.18 | 1011 | 16.2 |
| 03/05/2021 14:17 | 8.18 | 1010 | 14.8 |
| 03/05/2021 15:17 | 8.18 | 1008 | 13.4 |
| 03/05/2021 16:17 | 8.18 | 1006 | 12.5 |
| 03/05/2021 17:17 | 8.18 | 1004 | 11.1 |
| 03/05/2021 18:17 | 8.18 | 1003 | 9.7 |
| 03/05/2021 19:17 | 8.18 | 1000 | 9.3 |
| 03/05/2021 20:17 | 8.18 | 999 | 9.2 |
| 03/05/2021 21:17 | 8.18 | 997 | 9.1 |
| 03/05/2021 22:17 | 8.17 | 996 | 9.4 |
| 03/05/2021 23:17 | 8.17 | 996 | 9.6 |
| 04/05/2021 00:17 | 8.17 | 995 | 9.2 |
| 04/05/2021 01:17 | 8.17 | 994 | 8.7 |
| 04/05/2021 02:17 | 8.17 | 994 | 8.3 |
| 04/05/2021 03:17 | 8.17 | 995 | 8.4 |
| 04/05/2021 04:17 | 8.17 | 994 | 8.1 |
| 04/05/2021 05:17 | 8.17 | 996 | 7.9 |
| 04/05/2021 06:17 | 8.17 | 997 | 9.4 |
| 04/05/2021 07:17 | 8.17 | 998 | 11.8 |
| 04/05/2021 08:17 | 8.17 | 999 | 14.3 |
| 04/05/2021 09:17 | 8.18 | 1000 | 14.7 |
| 04/05/2021 10:17 | 8.17 | 1000 | 16.7 |
| 04/05/2021 11:17 | 8.18 | 1001 | 18.1 |
| 04/05/2021 12:17 | 8.18 | 1001 | 16.9 |
| 04/05/2021 13:17 | 8.18 | 1001 | 18.2 |
| 04/05/2021 14:17 | 8.18 | 1001 | 20.2 |
| 04/05/2021 15:17 | 8.17 | 1001 | 20.9 |
| 04/05/2021 16:17 | 8.18 | 1002 | 18.4 |
| 04/05/2021 17:17 | 8.18 | 1002 | 16.3 |
| 04/05/2021 18:17 | 8.18 | 1002 | 13.4 |
| 04/05/2021 19:17 | 8.18 | 1003 | 10.6 |
| 04/05/2021 20:17 | 8.18 | 1004 | 7.8 |
| 04/05/2021 21:17 | 8.18 | 1004 | 6.7 |
| 04/05/2021 22:17 | 8.18 | 1004 | 6.1 |
| 04/05/2021 23:17 | 8.18 | 1004 | 5.5 |
| 05/05/2021 00:17 | 8.18 | 1004 | 4.6 |
| 05/05/2021 01:17 | 8.18 | 1004 | 3.9 |
| 05/05/2021 02:17 | 8.18 | 1004 | 3.3 |
| 05/05/2021 03:17 | 8.18 | 1004 | 3.0 |
| 05/05/2021 04:17 | 8.18 | 1005 | 2.7 |
| 05/05/2021 05:17 | 8.18 | 1006 | 3.0 |
| 05/05/2021 06:17 | 8.18 | 1007 | 7.1 |
| 05/05/2021 07:17 | 8.18 | 1007 | 10.6 |
| 05/05/2021 08:17 | 8.18 | 1007 | 13.6 |
| 05/05/2021 09:17 | 8.18 | 1007 | 15.7 |
| 05/05/2021 10:17 | 8.18 | 1008 | 16.2 |
| 05/05/2021 11:17 | 8.18 | 1008 | 17.1 |
| 05/05/2021 12:17 | 8.18 | 1008 | 17.8 |
| 05/05/2021 13:17 | 8.18 | 1008 | 16.6 |
| 05/05/2021 14:17 | 8.18 | 1008 | 12.6 |
| 05/05/2021 15:17 | 8.18 | 1008 | 14.8 |

| Date and Time | $CH_4$ % v/v | $CO_2$ % v/v | $O_2$ % v/v | $H_2S$ ppm/v | CO ppm/v | Borehole Pressure mbar | Atmospheric Pressure mbar | Differential Pressure mbar | Flow Ltr/hr |
|---|---|---|---|---|---|---|---|---|---|
| 08/05/2021 12:01 | 32.8 | 24.9 | 0.1 | 1 | 0 | 1002 | 1003 | 0 | 0.29 |
| 08/05/2021 13:01 | 32.9 | 24.8 | 0.1 | 1 | 0 | 1003 | 1003 | 0 | 0.36 |
| 08/05/2021 14:01 | 33.0 | 24.9 | 0.0 | 1 | 0 | 1003 | 1003 | 0 | 0.39 |
| 08/05/2021 15:01 | 33.0 | 25.1 | 0.0 | 1 | 0 | 1002 | 1003 | 0 | 0.54 |
| 08/05/2021 16:01 | 33.1 | 25.3 | 0.0 | 1 | 0 | 1002 | 1002 | 0 | 0.31 |
| 08/05/2021 17:01 | 33.1 | 25.2 | 0.0 | 1 | 0 | 1002 | 1002 | 0 | 0.27 |
| 08/05/2021 18:01 | 33.1 | 25.1 | 0.0 | 1 | 0 | 1002 | 1002 | 0 | 0.41 |
| 08/05/2021 19:01 | 33.1 | 25.1 | 0.0 | 1 | 0 | 1001 | 1001 | 0 | 0.27 |
| 08/05/2021 20:01 | 33.1 | 25.2 | 0.0 | 1 | 0 | 1001 | 1001 | 0 | 0.28 |
| 08/05/2021 21:01 | 33.1 | 25.2 | 0.0 | 1 | 0 | 1001 | 1001 | 0 | 0.30 |
| 08/05/2021 22:01 | 33.1 | 25.2 | 0.0 | 1 | 0 | 1000 | 1000 | 0 | 0.27 |
| 08/05/2021 23:01 | 33.1 | 25.3 | 0.0 | 1 | 0 | 999 | 999 | 0 | 0.29 |
| 09/05/2021 00:01 | 33.1 | 25.2 | 0.0 | 1 | 0 | 998 | 999 | 0 | 0.34 |
| 09/05/2021 01:01 | 33.1 | 25.2 | 0.0 | 1 | 0 | 998 | 998 | 0 | 0.43 |
| 09/05/2021 02:01 | 33.0 | 25.0 | 0.0 | 1 | 0 | 997 | 997 | 0 | 0.34 |
| 09/05/2021 03:01 | 33.0 | 25.2 | 0.0 | 1 | 0 | 996 | 997 | 0 | 0.30 |
| 09/05/2021 04:01 | 33.1 | 25.2 | 0.0 | 1 | 0 | 996 | 996 | 0 | 0.50 |
| 09/05/2021 05:01 | 33.1 | 25.1 | 0.1 | 1 | 0 | 996 | 996 | 0 | 0.43 |
| 09/05/2021 06:01 | 33.1 | 25.2 | 0.1 | 1 | 0 | 996 | 996 | 0 | 0.48 |
| 09/05/2021 07:01 | 32.9 | 25.2 | 0.0 | 1 | 0 | 995 | 996 | 0 | 0.30 |
| 09/05/2021 08:01 | 32.9 | 25.2 | 0.0 | 1 | 0 | 995 | 996 | 1 | 0.32 |
| 09/05/2021 09:01 | 32.8 | 25.1 | 0.0 | 1 | 0 | 995 | 996 | 1 | 0.17 |
| 09/05/2021 10:01 | 32.7 | 25.0 | 0.2 | 1 | 0 | 995 | 996 | 1 | 0.11 |
| 09/05/2021 11:01 | 32.7 | 25.1 | 0.1 | 1 | 0 | 995 | 996 | 0 | 0.24 |
| 09/05/2021 12:01 | 32.8 | 25.1 | 0.1 | 1 | 0 | 995 | 996 | 0 | 0.12 |
| 09/05/2021 13:01 | 32.8 | 25.4 | 0.1 | 1 | 0 | 995 | 995 | 0 | 0.38 |
| 09/05/2021 14:01 | 32.9 | 25.2 | 0.1 | 0 | 0 | 995 | 996 | 0 | 0.13 |
| 09/05/2021 15:01 | 32.9 | 25.2 | 0.1 | 0 | 0 | 995 | 995 | 0 | 0.21 |
| 09/05/2021 16:01 | 32.9 | 25.1 | 0.0 | 0 | 0 | 995 | 995 | 0 | 0.43 |
| 09/05/2021 17:01 | 33.0 | 25.4 | 0.0 | 1 | 0 | 993 | 994 | 0 | 0.39 |
| 09/05/2021 18:01 | 33.0 | 25.4 | 0.1 | 1 | 0 | 994 | 994 | 0 | 0.68 |
| 09/05/2021 19:01 | 33.0 | 25.3 | 0.0 | 1 | 0 | 994 | 994 | 0 | 0.34 |
| 09/05/2021 20:01 | 32.9 | 25.2 | 0.0 | 1 | 0 | 994 | 994 | 0 | 0.42 |
| 09/05/2021 21:01 | 32.8 | 25.0 | 0.0 | 1 | 0 | 994 | 994 | 0 | 0.67 |
| 09/05/2021 22:01 | 32.7 | 24.9 | 0.2 | 1 | 0 | 994 | 994 | 1 | 0.34 |
| 09/05/2021 23:01 | 32.6 | 24.8 | 0.1 | 1 | 0 | 994 | 994 | 1 | 0.26 |
| 10/05/2021 00:01 | 32.5 | 24.9 | 0.1 | 1 | 0 | 994 | 994 | 1 | 0.28 |
| 10/05/2021 01:01 | 32.5 | 24.7 | 0.1 | 1 | 0 | 994 | 994 | 1 | 0.42 |
| 10/05/2021 02:01 | 32.6 | 24.8 | 0.1 | 1 | 0 | 994 | 994 | 1 | 0.22 |
| 10/05/2021 03:01 | 32.6 | 24.8 | 0.1 | 1 | 0 | 994 | 995 | 1 | 0.00 |
| 10/05/2021 04:01 | 32.7 | 25.0 | 0.1 | 1 | 0 | 994 | 995 | 1 | 0.09 |
| 10/05/2021 05:01 | 32.8 | 24.9 | 0.1 | 1 | 0 | 995 | 995 | 1 | 0.30 |
| 10/05/2021 06:01 | 32.8 | 24.9 | 0.2 | 1 | 0 | 995 | 996 | 1 | 0.20 |
| 10/05/2021 07:01 | 32.9 | 25.0 | 0.2 | 1 | 0 | 996 | 996 | 1 | 0.10 |
| 10/05/2021 08:01 | 32.9 | 25.1 | 0.3 | 1 | 0 | 996 | 997 | 1 | 0.13 |
| 10/05/2021 09:01 | 32.9 | 25.1 | 0.3 | 1 | 0 | 997 | 998 | 1 | 0.34 |
| 10/05/2021 10:01 | 33.0 | 25.2 | 0.3 | 1 | 0 | 998 | 999 | 1 | 0.12 |
| 10/05/2021 11:01 | 32.9 | 25.2 | 0.5 | 1 | 0 | 999 | 1000 | 1 | -0.02 |
| 10/05/2021 12:01 | 32.9 | 25.2 | 0.6 | 1 | 0 | 1000 | 1000 | 1 | 0.13 |
| 10/05/2021 13:01 | 33.0 | 25.2 | 0.5 | 1 | 0 | 1000 | 1001 | 1 | 0.23 |
| 10/05/2021 14:01 | 33.0 | 25.4 | 0.4 | 1 | 0 | 1001 | 1002 | 1 | 0.17 |
| 10/05/2021 15:01 | 33.1 | 25.4 | 0.3 | 1 | 0 | 1002 | 1002 | 0 | 0.10 |
| 10/05/2021 16:01 | 33.1 | 25.6 | 0.3 | 0 | 0 | 1002 | 1002 | 0 | 0.23 |
| 10/05/2021 17:01 | 33.1 | 25.5 | 0.2 | 0 | 0 | 1002 | 1002 | 0 | 0.25 |
| 10/05/2021 18:01 | 33.1 | 25.4 | 0.2 | 0 | 0 | 1002 | 1003 | 0 | 0.30 |
| 10/05/2021 19:01 | 33.2 | 25.5 | 0.2 | 1 | 0 | 1003 | 1003 | 0 | 0.26 |
| 10/05/2021 20:01 | 33.2 | 25.3 | 0.2 | 1 | 0 | 1003 | 1003 | 0 | 0.36 |
| 10/05/2021 21:01 | 33.2 | 25.4 | 0.2 | 1 | 0 | 1004 | 1004 | 0 | 0.30 |
| 10/05/2021 22:01 | 33.2 | 25.4 | 0.2 | 1 | 0 | 1004 | 1004 | 0 | 0.29 |
| 10/05/2021 23:01 | 33.2 | 25.4 | 0.2 | 1 | 0 | 1004 | 1004 | 0 | 0.38 |
| 11/05/2021 00:01 | 33.2 | 25.4 | 0.2 | 1 | 0 | 1004 | 1004 | 0 | 0.27 |
| 11/05/2021 01:01 | 33.1 | 25.4 | 0.3 | 1 | 0 | 1004 | 1004 | 0 | 0.40 |
| 11/05/2021 02:01 | 33.0 | 25.1 | 0.3 | 1 | 0 | 1003 | 1004 | 0 | 0.43 |
| 11/05/2021 03:01 | 32.9 | 25.1 | 0.3 | 1 | 0 | 1003 | 1003 | 0 | 0.32 |
| 11/05/2021 04:01 | 32.8 | 25.1 | 0.4 | 1 | 0 | 1003 | 1004 | 0 | 0.23 |
| 11/05/2021 05:01 | 32.3 | 24.3 | 0.4 | 1 | 0 | 1004 | 1004 | 1 | 0.25 |
| 11/05/2021 06:01 | 32.0 | 24.1 | 0.4 | 1 | 0 | 1004 | 1005 | 1 | 0.32 |
| 11/05/2021 07:01 | 32.1 | 24.3 | 0.5 | 1 | 0 | 1004 | 1005 | 1 | 0.16 |
| 11/05/2021 08:01 | 32.3 | 24.7 | 0.6 | 1 | 0 | 1004 | 1005 | 1 | 0.18 |
| 11/05/2021 09:01 | 32.5 | 24.9 | 0.8 | 1 | 0 | 1005 | 1006 | 1 | -0.04 |
| 11/05/2021 10:01 | 32.7 | 25.1 | 0.9 | 1 | 0 | 1005 | 1006 | 1 | 0.10 |
| 11/05/2021 11:01 | 32.7 | 25.1 | 0.9 | 1 | 0 | 1006 | 1006 | 0 | 0.23 |
| 11/05/2021 12:01 | 32.8 | 25.3 | 0.9 | 1 | 0 | 1006 | 1006 | 0 | 0.25 |
| 11/05/2021 13:01 | 32.9 | 25.1 | 0.9 | 1 | 0 | 1006 | 1006 | 0 | 0.13 |
| 11/05/2021 14:01 | 33.0 | 25.5 | 0.9 | 0 | 0 | 1006 | 1006 | 0 | 0.34 |
| 11/05/2021 15:01 | 33.0 | 25.5 | 0.9 | 0 | 0 | 1006 | 1006 | 0 | 0.23 |
| 11/05/2021 16:01 | 33.0 | 25.4 | 0.9 | 0 | 0 | 1005 | 1005 | 0 | 0.15 |
| 11/05/2021 17:01 | 33.0 | 25.3 | 1.0 | 0 | 0 | 1005 | 1005 | 0 | 0.00 |
| 11/05/2021 18:01 | 33.1 | 25.3 | 0.9 | 1 | 0 | 1005 | 1005 | 0 | -0.05 |
| 11/05/2021 19:01 | 33.1 | 25.2 | 0.7 | 1 | 0 | 1005 | 1005 | 0 | 0.08 |
| 11/05/2021 20:01 | 33.2 | 25.4 | 0.6 | 1 | 0 | 1006 | 1006 | 0 | 0.24 |
| 11/05/2021 21:01 | 33.2 | 25.4 | 0.6 | 1 | 0 | 1006 | 1006 | 0 | 0.33 |
| 11/05/2021 22:01 | 33.2 | 25.4 | 0.6 | 1 | 0 | 1006 | 1006 | 0 | 0.25 |
| 11/05/2021 23:01 | 33.2 | 25.2 | 0.7 | 1 | 0 | 1006 | 1007 | 0 | 0.40 |
| 12/05/2021 00:01 | 33.3 | 25.5 | 0.7 | 1 | 0 | 1006 | 1007 | 0 | 0.39 |
| 12/05/2021 01:01 | 33.3 | 25.4 | 0.7 | 1 | 0 | 1006 | 1007 | 0 | 0.43 |
| 12/05/2021 02:01 | 33.3 | 25.4 | 0.8 | 1 | 0 | 1007 | 1007 | 0 | 0.41 |
| 12/05/2021 03:01 | 33.3 | 25.6 | 0.8 | 1 | 0 | 1007 | 1007 | 0 | 0.38 |
| 12/05/2021 04:01 | 33.2 | 25.4 | 0.8 | 1 | 0 | 1007 | 1007 | 0 | 0.35 |
| 12/05/2021 05:01 | 33.2 | 25.4 | 0.8 | 1 | 0 | 1007 | 1007 | 0 | 0.39 |
| 12/05/2021 06:01 | 33.1 | 25.3 | 0.9 | 1 | 0 | 1007 | 1007 | 0 | 0.31 |
| 12/05/2021 07:01 | 33.0 | 25.3 | 1.1 | 1 | 0 | 1007 | 1007 | 0 | 0.36 |
| 12/05/2021 08:01 | 33.0 | 25.3 | 1.3 | 1 | 0 | 1007 | 1008 | 0 | 0.27 |
| 12/05/2021 09:01 | 33.0 | 25.3 | 1.3 | 1 | 0 | 1008 | 1008 | 0 | 0.29 |
| 12/05/2021 10:01 | 33.0 | 25.4 | 1.3 | 1 | 0 | 1007 | 1008 | 0 | 0.21 |
| 12/05/2021 11:01 | 33.1 | 25.6 | 1.4 | 1 | 0 | 1007 | 1008 | 0 | 0.18 |
| 12/05/2021 12:01 | 33.1 | 25.4 | 1.5 | 1 | 0 | 1007 | 1008 | 0 | 0.23 |
| 12/05/2021 13:01 | 33.1 | 25.7 | 1.5 | 1 | 0 | 1007 | 1007 | 0 | 0.26 |
| 12/05/2021 14:01 | 33.2 | 25.7 | 1.4 | 1 | 0 | 1007 | 1007 | 0 | 0.32 |
| 12/05/2021 15:01 | 33.2 | 25.8 | 1.4 | 0 | 0 | 1007 | 1007 | 0 | 0.26 |
| 12/05/2021 16:01 | 33.2 | 25.7 | 1.3 | 1 | 0 | 1006 | 1006 | 0 | 0.41 |
| 12/05/2021 17:01 | 33.2 | 25.4 | 1.1 | 1 | 0 | 1006 | 1005 | 0 | 0.32 |
| 12/05/2021 18:01 | 33.1 | 25.6 | 1.0 | 1 | 0 | 1005 | 1005 | 0 | 0.40 |
| 12/05/2021 19:01 | 32.9 | 25.4 | 0.9 | 1 | 0 | 1005 | 1004 | 0 | 0.29 |
| 12/05/2021 20:01 | 32.5 | 25.0 | 0.9 | 1 | 0 | 1005 | 1005 | 0 | 0.24 |
| 12/05/2021 21:01 | 32.3 | 24.5 | 0.9 | 1 | 0 | 1004 | 1004 | 0 | 0.38 |
| 12/05/2021 22:01 | 32.2 | 24.6 | 0.8 | 1 | 0 | 1003 | 1003 | 0 | 0.35 |
| 12/05/2021 23:01 | 31.6 | 23.7 | 0.8 | 1 | 0 | 1003 | 1003 | 0 | 0.26 |
| 13/05/2021 00:01 | 31.2 | 23.0 | 0.8 | 1 | 0 | 1002 | 1002 | 0 | 0.19 |
| 13/05/2021 01:01 | 31.1 | 22.8 | 0.8 | 1 | 0 | 1002 | 1002 | 0 | 0.17 |
| 13/05/2021 02:01 | 31.2 | 22.8 | 0.8 | 1 | 0 | 1002 | 1002 | 0 | 0.18 |
| 13/05/2021 03:01 | 31.5 | 23.3 | 0.7 | 1 | 0 | 1002 | 1002 | 0 | 0.23 |
| 13/05/2021 04:01 | 31.6 | 23.4 | 0.7 | 1 | 0 | 1001 | 1001 | 0 | 0.19 |
| 13/05/2021 05:01 | 31.5 | 23.4 | 0.7 | 1 | 0 | 1001 | 1001 | 0 | 0.17 |
| 13/05/2021 06:01 | 31.3 | 23.1 | 0.7 | 1 | 0 | 1001 | 1001 | 0 | 0.20 |
| 13/05/2021 07:01 | 31.2 | 23.0 | 0.7 | 1 | 0 | 1001 | 1001 | 0 | 0.06 |
| 13/05/2021 08:01 | 31.5 | 23.3 | 0.8 | 1 | 0 | 1001 | 1002 | 0 | -0.01 |
| 13/05/2021 09:01 | 31.8 | 23.7 | 0.9 | 1 | 0 | 1002 | 1002 | 0 | 0.03 |
| 13/05/2021 10:01 | 32.0 | 24.1 | 0.9 | 1 | 0 | 1002 | 1002 | 0 | 0.21 |
| 13/05/2021 11:01 | 32.1 | 24.2 | 0.9 | 1 | 0 | 1002 | 1002 | 0 | 0.08 |
| 13/05/2021 12:01 | 32.1 | 24.1 | 1.1 | 1 | 0 | 1002 | 1002 | 0 | 0.02 |
| 13/05/2021 13:01 | 32.1 | 24.1 | 1.4 | 1 | 0 | 1002 | 1003 | 0 | 0.11 |
| 13/05/2021 14:01 | 32.1 | 24.1 | 1.2 | 1 | 0 | 1002 | 1002 | 0 | 0.04 |
| 13/05/2021 15:01 | 32.0 | 24.2 | 1.0 | 1 | 0 | 1002 | 1002 | 0 | 0.28 |
| 13/05/2021 16:01 | 31.6 | 23.7 | 1.0 | 1 | 0 | 1002 | 1002 | 0 | 0.15 |
| 13/05/2021 17:01 | 31.3 | 23.2 | 0.9 | 1 | 0 | 1002 | 1002 | 0 | 0.18 |

| Date and Time | Water Level mbgl | Atmospheric Pressure mbar | Temperature °C |
|---|---|---|---|
| 05/05/2021 16:17 | 8.18 | 1007 | 15.2 |
| 05/05/2021 17:17 | 8.18 | 1008 | 11.4 |
| 05/05/2021 18:17 | 8.18 | 1008 | 10.0 |
| 05/05/2021 19:17 | 8.18 | 1008 | 8.5 |
| 05/05/2021 20:17 | 8.18 | 1008 | 6.3 |
| 05/05/2021 21:17 | 8.18 | 1008 | 5.1 |
| 05/05/2021 22:17 | 8.18 | 1007 | 4.4 |
| 05/05/2021 23:17 | 8.18 | 1007 | 3.6 |
| 06/05/2021 00:17 | 8.18 | 1007 | 3.0 |
| 06/05/2021 01:17 | 8.18 | 1006 | 2.4 |
| 06/05/2021 02:17 | 8.18 | 1005 | 2.0 |
| 06/05/2021 03:17 | 8.18 | 1005 | 1.2 |
| 06/05/2021 04:17 | 8.18 | 1004 | 0.7 |
| 06/05/2021 05:17 | 8.18 | 1004 | 1.2 |
| 06/05/2021 06:17 | 8.18 | 1004 | 3.2 |
| 06/05/2021 07:17 | 8.19 | 1004 | 8.5 |
| 06/05/2021 08:17 | 8.19 | 1003 | 14.0 |
| 06/05/2021 09:17 | 8.18 | 1003 | 13.0 |
| 06/05/2021 10:17 | 8.19 | 1003 | 13.8 |
| 06/05/2021 11:17 | 8.18 | 1003 | 17.7 |
| 06/05/2021 12:17 | 8.18 | 1003 | 18.2 |
| 06/05/2021 13:17 | 8.18 | 1003 | 18.6 |
| 06/05/2021 14:17 | 8.18 | 1003 | 17.1 |
| 06/05/2021 15:17 | 8.18 | 1003 | 18.0 |
| 06/05/2021 16:17 | 8.18 | 1004 | 17.9 |
| 06/05/2021 17:17 | 8.18 | 1005 | 19.7 |
| 06/05/2021 18:17 | 8.18 | 1005 | 16.4 |
| 06/05/2021 19:17 | 8.18 | 1006 | 12.8 |
| 06/05/2021 20:17 | 8.18 | 1007 | 8.1 |
| 06/05/2021 21:17 | 8.18 | 1007 | 6.2 |
| 06/05/2021 22:17 | 8.18 | 1008 | 5.7 |
| 06/05/2021 23:17 | 8.18 | 1009 | 5.0 |
| 07/05/2021 00:17 | 8.19 | 1009 | 4.2 |
| 07/05/2021 01:17 | 8.19 | 1010 | 3.7 |
| 07/05/2021 02:17 | 8.19 | 1011 | 2.9 |
| 07/05/2021 03:17 | 8.19 | 1011 | 2.3 |
| 07/05/2021 04:17 | 8.19 | 1012 | 1.7 |
| 07/05/2021 05:17 | 8.19 | 1012 | 2.1 |
| 07/05/2021 06:17 | 8.19 | 1013 | 7.0 |
| 07/05/2021 07:17 | 8.19 | 1014 | 11.0 |
| 07/05/2021 08:17 | 8.19 | 1014 | 14.9 |
| 07/05/2021 09:17 | 8.19 | 1015 | 17.7 |
| 07/05/2021 10:17 | 8.19 | 1015 | 20.0 |
| 07/05/2021 11:17 | 8.19 | 1015 | 20.6 |
| 07/05/2021 12:17 | 8.19 | 1015 | 19.9 |
| 07/05/2021 13:17 | 8.19 | 1015 | 19.3 |
| 07/05/2021 14:17 | 8.19 | 1015 | 21.6 |
| 07/05/2021 15:17 | 8.19 | 1014 | 21.2 |
| 07/05/2021 16:17 | 8.19 | 1014 | 17.4 |
| 07/05/2021 17:17 | 8.19 | 1014 | 16.0 |
| 07/05/2021 18:17 | 8.19 | 1014 | 13.6 |
| 07/05/2021 19:17 | 8.19 | 1014 | 11.3 |
| 07/05/2021 20:17 | 8.19 | 1013 | 9.9 |
| 07/05/2021 21:17 | 8.19 | 1013 | 9.6 |
| 07/05/2021 22:17 | 8.19 | 1012 | 9.2 |
| 07/05/2021 23:17 | 8.19 | 1011 | 8.9 |
| 08/05/2021 00:17 | 8.19 | 1010 | 9.0 |
| 08/05/2021 01:17 | 8.19 | 1009 | 8.7 |
| 08/05/2021 02:17 | 8.19 | 1008 | 8.5 |
| 08/05/2021 03:17 | 8.19 | 1007 | 8.7 |
| 08/05/2021 04:17 | 8.19 | 1005 | 9.1 |
| 08/05/2021 05:17 | 8.19 | 1004 | 9.2 |
| 08/05/2021 06:17 | 8.19 | 1003 | 9.8 |
| 08/05/2021 07:17 | 8.19 | 1002 | 10.3 |
| 08/05/2021 08:17 | 8.19 | 1002 | 10.7 |
| 08/05/2021 09:17 | 8.19 | 1002 | 11.7 |
| 08/05/2021 10:17 | 8.19 | 1002 | 12.7 |
| 08/05/2021 11:17 | 8.19 | 1001 | 14.0 |
| 08/05/2021 12:17 | 8.19 | 1002 | 16.0 |
| 08/05/2021 13:17 | 8.19 | 1002 | 16.0 |
| 08/05/2021 14:17 | 8.19 | 1002 | 16.2 |
| 08/05/2021 15:17 | 8.19 | 1001 | 16.7 |
| 08/05/2021 16:17 | 8.19 | 1001 | 16.8 |
| 08/05/2021 17:17 | 8.19 | 1001 | 17.0 |
| 08/05/2021 18:17 | 8.19 | 1000 | 16.2 |
| 08/05/2021 19:17 | 8.19 | 1000 | 15.2 |
| 08/05/2021 20:17 | 8.19 | 1000 | 14.5 |
| 08/05/2021 21:17 | 8.19 | 1000 | 13.4 |
| 08/05/2021 22:17 | 8.19 | 999 | 11.7 |
| 08/05/2021 23:17 | 8.19 | 998 | 11.5 |
| 09/05/2021 00:17 | 8.19 | 997 | 11.3 |
| 09/05/2021 01:17 | 8.19 | 997 | 11.2 |
| 09/05/2021 02:17 | 8.19 | 996 | 11.0 |
| 09/05/2021 03:17 | 8.19 | 996 | 10.7 |
| 09/05/2021 04:17 | 8.19 | 995 | 10.4 |
| 09/05/2021 05:17 | 8.19 | 995 | 10.9 |
| 09/05/2021 06:17 | 8.19 | 995 | 11.7 |
| 09/05/2021 07:17 | 8.19 | 995 | 13.0 |
| 09/05/2021 08:17 | 8.19 | 995 | 18.3 |
| 09/05/2021 09:17 | 8.19 | 994 | 20.4 |
| 09/05/2021 10:17 | 8.19 | 995 | 19.9 |
| 09/05/2021 11:17 | 8.19 | 995 | 21.7 |
| 09/05/2021 12:17 | 8.19 | 994 | 20.8 |
| 09/05/2021 13:17 | 8.19 | 994 | 22.5 |
| 09/05/2021 14:17 | 8.19 | 994 | 23.8 |
| 09/05/2021 15:17 | 8.19 | 994 | 20.1 |
| 09/05/2021 16:17 | 8.19 | 993 | 20.5 |
| 09/05/2021 17:17 | 8.19 | 993 | 19.5 |
| 09/05/2021 18:17 | 8.19 | 993 | 16.2 |
| 09/05/2021 19:17 | 8.19 | 993 | 14.5 |
| 09/05/2021 20:17 | 8.19 | 993 | 13.4 |
| 09/05/2021 21:17 | 8.19 | 993 | 12.7 |
| 09/05/2021 22:17 | 8.19 | 993 | 11.9 |
| 09/05/2021 23:17 | 8.19 | 994 | 11.2 |
| 10/05/2021 00:17 | 8.19 | 994 | 10.7 |
| 10/05/2021 01:17 | 8.19 | 994 | 10.4 |
| 10/05/2021 02:17 | 8.19 | 994 | 10.2 |
| 10/05/2021 03:17 | 8.19 | 994 | 10.2 |
| 10/05/2021 04:17 | 8.19 | 995 | 10.5 |
| 10/05/2021 05:17 | 8.19 | 995 | 10.2 |
| 10/05/2021 06:17 | 8.19 | 995 | 11.8 |
| 10/05/2021 07:17 | 8.19 | 996 | 13.1 |
| 10/05/2021 08:17 | 8.19 | 996 | 13.5 |
| 10/05/2021 09:17 | 8.19 | 997 | 14.9 |
| 10/05/2021 10:17 | 8.19 | 998 | 17.3 |
| 10/05/2021 11:17 | 8.19 | 999 | 16.8 |
| 10/05/2021 12:17 | 8.19 | 999 | 18.2 |
| 10/05/2021 13:17 | 8.19 | 1000 | 19.8 |
| 10/05/2021 14:17 | 8.19 | 1000 | 21.9 |
| 10/05/2021 15:17 | 8.19 | 1001 | 22.0 |
| 10/05/2021 16:17 | 8.19 | 1001 | 21.1 |
| 10/05/2021 17:17 | 8.19 | 1001 | 19.9 |
| 10/05/2021 18:17 | 8.19 | 1001 | 17.6 |
| 10/05/2021 19:17 | 8.19 | 1002 | 14.7 |
| 10/05/2021 20:17 | 8.19 | 1003 | 11.6 |
| 10/05/2021 21:17 | 8.19 | 1003 | 10.8 |

| Date and Time | $CH_4$ % v/v | $CO_2$ % v/v | $O_2$ % v/v | $H_2S$ ppm/v | CO ppm/v | Borehole Pressure mbar | Atmospheric Pressure mbar | Differential Pressure mbar | Flow Ltr/hr |
|---|---|---|---|---|---|---|---|---|---|
| 13/05/2021 18:01 | 31.2 | 22.9 | 0.8 | 1 | 0 | 1002 | 1003 | 0 | 0.13 |
| 13/05/2021 19:01 | 31.1 | 22.9 | 0.8 | 1 | 0 | 1003 | 1003 | 0 | 0.08 |
| 13/05/2021 20:01 | 31.1 | 22.7 | 0.7 | 1 | 0 | 1003 | 1004 | 0 | 0.10 |
| 13/05/2021 21:01 | 31.1 | 22.7 | 0.7 | 1 | 0 | 1004 | 1004 | 0 | 0.19 |
| 13/05/2021 22:01 | 31.1 | 22.7 | 0.6 | 1 | 0 | 1004 | 1004 | 0 | 0.15 |
| 13/05/2021 23:01 | 31.1 | 22.8 | 0.6 | 1 | 0 | 1004 | 1004 | 0 | 0.17 |
| 14/05/2021 00:01 | 31.1 | 22.7 | 0.6 | 1 | 0 | 1004 | 1004 | 0 | 0.20 |
| 14/05/2021 01:01 | 31.1 | 22.8 | 0.6 | 1 | 0 | 1004 | 1004 | 0 | 0.24 |
| 14/05/2021 02:01 | 31.1 | 22.9 | 0.7 | 1 | 0 | 1004 | 1005 | 0 | 0.17 |
| 14/05/2021 03:01 | 31.3 | 23.0 | 0.6 | 1 | 0 | 1005 | 1005 | 0 | 0.19 |
| 14/05/2021 04:01 | 31.5 | 23.3 | 0.7 | 1 | 0 | 1005 | 1005 | 0 | 0.24 |
| 14/05/2021 05:01 | 31.5 | 23.4 | 0.7 | 1 | 0 | 1005 | 1005 | 0 | 0.11 |
| 14/05/2021 06:01 | 31.7 | 23.6 | 0.7 | 1 | 0 | 1006 | 1006 | 0 | 0.14 |
| 14/05/2021 07:01 | 32.0 | 24.1 | 0.8 | 1 | 0 | 1007 | 1007 | 0 | 0.24 |
| 14/05/2021 08:01 | 32.2 | 24.3 | 0.8 | 1 | 0 | 1007 | 1008 | 0 | 0.23 |
| 14/05/2021 09:01 | 32.2 | 24.4 | 0.9 | 1 | 0 | 1008 | 1008 | 0 | 0.31 |
| 14/05/2021 10:01 | 32.2 | 24.3 | 0.9 | 1 | 0 | 1008 | 1008 | 0 | 0.28 |
| 14/05/2021 11:01 | 32.2 | 24.4 | 1.0 | 1 | 0 | 1008 | 1008 | 0 | 0.25 |
| 14/05/2021 12:01 | 32.0 | 24.3 | 1.0 | 1 | 0 | 1008 | 1009 | 0 | 0.26 |
| 14/05/2021 13:01 | 32.1 | 24.4 | 1.0 | 1 | 0 | 1008 | 1008 | 0 | 0.33 |
| 14/05/2021 14:01 | 32.2 | 24.5 | 1.1 | 1 | 0 | 1008 | 1008 | 0 | 0.27 |
| 14/05/2021 15:01 | 32.2 | 24.5 | 1.1 | 1 | 0 | 1008 | 1008 | 0 | 0.31 |
| 14/05/2021 16:01 | 32.3 | 24.6 | 1.0 | 1 | 0 | 1008 | 1007 | 0 | 0.36 |
| 14/05/2021 17:01 | 32.5 | 24.9 | 0.9 | 1 | 0 | 1007 | 1007 | 0 | 0.36 |
| 14/05/2021 18:01 | 32.6 | 24.7 | 0.9 | 1 | 0 | 1006 | 1006 | 0 | 0.35 |
| 14/05/2021 19:01 | 32.7 | 24.9 | 0.9 | 1 | 0 | 1006 | 1006 | 0 | 0.30 |
| 14/05/2021 20:01 | 32.7 | 25.0 | 0.8 | 1 | 0 | 1006 | 1006 | 0 | 0.35 |
| 14/05/2021 21:01 | 32.7 | 25.0 | 0.8 | 1 | 0 | 1005 | 1005 | 0 | 0.25 |
| 14/05/2021 22:01 | 32.5 | 24.8 | 0.8 | 1 | 0 | 1005 | 1005 | 0 | 0.39 |
| 14/05/2021 23:01 | 32.3 | 24.6 | 0.8 | 1 | 0 | 1004 | 1004 | 0 | 0.49 |
| 15/05/2021 00:01 | 32.3 | 24.5 | 0.8 | 1 | 0 | 1003 | 1003 | 0 | 0.34 |
| 15/05/2021 01:01 | 32.3 | 24.5 | 0.8 | 1 | 0 | 1002 | 1002 | 0 | 0.34 |
| 15/05/2021 02:01 | 32.3 | 24.5 | 0.8 | 1 | 0 | 1001 | 1001 | 0 | 0.30 |
| 15/05/2021 03:01 | 32.3 | 24.4 | 0.8 | 1 | 0 | 1000 | 1000 | 0 | 0.36 |
| 15/05/2021 04:01 | 31.9 | 24.1 | 0.8 | 1 | 0 | 999 | 999 | 0 | 0.31 |
| 15/05/2021 05:01 | 31.3 | 23.0 | 0.8 | 1 | 0 | 998 | 999 | 0 | 0.26 |
| 15/05/2021 06:01 | 31.2 | 22.8 | 0.8 | 1 | 0 | 998 | 998 | 0 | 0.17 |
| 15/05/2021 07:01 | 31.4 | 23.3 | 0.7 | 1 | 0 | 997 | 997 | 0 | 0.29 |
| 15/05/2021 08:01 | 31.4 | 23.2 | 0.8 | 1 | 0 | 996 | 997 | 0 | 0.25 |
| 15/05/2021 09:01 | 31.2 | 23.1 | 0.8 | 1 | 0 | 996 | 997 | 0 | 0.14 |
| 15/05/2021 10:01 | 31.1 | 23.0 | 0.8 | 1 | 0 | 996 | 997 | 0 | 0.19 |
| 15/05/2021 11:01 | 31.1 | 22.9 | 0.8 | 1 | 0 | 997 | 997 | 0 | 0.18 |
| 15/05/2021 12:01 | 31.6 | 23.7 | 0.9 | 1 | 0 | 997 | 997 | 0 | 0.20 |
| 15/05/2021 13:01 | 32.1 | 24.3 | 0.9 | 1 | 0 | 997 | 998 | 0 | 0.32 |
| 15/05/2021 14:01 | 32.4 | 24.5 | 1.0 | 1 | 0 | 998 | 998 | 0 | 0.38 |
| 15/05/2021 15:01 | 32.5 | 24.6 | 1.0 | 1 | 0 | 997 | 998 | 0 | 0.34 |
| 15/05/2021 16:01 | 32.6 | 24.7 | 1.0 | 1 | 0 | 997 | 998 | 0 | 0.43 |
| 15/05/2021 17:01 | 32.7 | 25.0 | 1.1 | 1 | 0 | 998 | 998 | 0 | 0.32 |
| 15/05/2021 18:01 | 32.8 | 25.2 | 1.0 | 1 | 0 | 998 | 998 | 0 | 0.40 |
| 15/05/2021 19:01 | 32.9 | 25.1 | 1.0 | 1 | 0 | 998 | 998 | 0 | 0.21 |
| 15/05/2021 20:01 | 32.9 | 25.1 | 0.9 | 1 | 0 | 998 | 998 | 0 | 0.30 |
| 15/05/2021 21:01 | 32.9 | 25.1 | 0.8 | 1 | 0 | 998 | 998 | 0 | 0.44 |
| 15/05/2021 22:01 | 33.0 | 25.1 | 0.8 | 1 | 0 | 998 | 998 | 0 | 0.35 |
| 15/05/2021 23:01 | 33.0 | 25.2 | 0.8 | 1 | 0 | 998 | 998 | 0 | 0.33 |
| 16/05/2021 00:01 | 33.0 | 25.2 | 0.8 | 1 | 0 | 998 | 998 | 0 | 0.37 |
| 16/05/2021 01:01 | 33.0 | 25.2 | 0.8 | 1 | 0 | 997 | 998 | 0 | 0.42 |
| 16/05/2021 02:01 | 32.9 | 25.1 | 0.8 | 1 | 0 | 997 | 997 | 0 | 0.42 |
| 16/05/2021 03:01 | 32.8 | 24.9 | 0.8 | 1 | 0 | 997 | 997 | 0 | 0.37 |
| 16/05/2021 04:01 | 32.6 | 24.7 | 0.9 | 1 | 0 | 996 | 997 | 0 | 0.21 |
| 16/05/2021 05:01 | 32.3 | 24.6 | 0.8 | 1 | 0 | 997 | 997 | 0 | 0.19 |
| 16/05/2021 06:01 | 32.2 | 24.5 | 0.8 | 1 | 0 | 996 | 997 | 0 | 0.28 |
| 16/05/2021 07:01 | 32.1 | 24.3 | 0.9 | 1 | 0 | 996 | 997 | 0 | 0.33 |
| 16/05/2021 08:01 | 32.2 | 24.4 | 0.9 | 1 | 0 | 996 | 997 | 0 | 0.40 |
| 16/05/2021 09:01 | 32.2 | 24.5 | 0.9 | 1 | 0 | 996 | 996 | 0 | 0.37 |
| 16/05/2021 10:01 | 32.3 | 24.5 | 0.9 | 1 | 0 | 996 | 996 | 0 | 0.27 |
| 16/05/2021 11:01 | 32.5 | 24.9 | 1.0 | 1 | 0 | 996 | 996 | 1 | 0.16 |
| 16/05/2021 12:01 | 32.7 | 25.0 | 1.0 | 1 | 0 | 995 | 996 | 0 | 0.38 |
| 16/05/2021 13:01 | 32.7 | 24.9 | 1.1 | 1 | 0 | 995 | 996 | 0 | 0.37 |
| 16/05/2021 14:01 | 32.9 | 25.1 | 1.0 | 1 | 0 | 995 | 995 | 0 | 0.43 |
| 16/05/2021 15:01 | 32.9 | 25.1 | 1.0 | 1 | 0 | 994 | 994 | 0 | 0.33 |
| 16/05/2021 16:01 | 33.0 | 25.2 | 1.0 | 1 | 0 | 994 | 994 | 0 | 0.37 |
| 16/05/2021 17:01 | 33.0 | 25.3 | 0.9 | 1 | 0 | 993 | 993 | 0 | 0.44 |
| 16/05/2021 18:01 | 33.1 | 25.2 | 0.9 | 1 | 0 | 992 | 993 | 0 | 0.32 |
| 16/05/2021 19:01 | 33.1 | 25.4 | 0.9 | 1 | 0 | 993 | 993 | 0 | 0.41 |
| 16/05/2021 20:01 | 33.1 | 25.4 | 0.9 | 1 | 0 | 993 | 993 | 0 | 0.22 |
| 16/05/2021 21:01 | 33.1 | 25.2 | 0.9 | 1 | 0 | 994 | 994 | 0 | 0.25 |
| 16/05/2021 22:01 | 33.1 | 25.4 | 0.9 | 1 | 0 | 995 | 995 | 0 | 0.28 |
| 16/05/2021 23:01 | 33.1 | 25.4 | 0.9 | 1 | 0 | 996 | 996 | 0 | 0.34 |
| 17/05/2021 00:01 | 33.1 | 25.2 | 0.8 | 1 | 0 | 996 | 997 | 0 | 0.29 |
| 17/05/2021 01:01 | 33.1 | 25.4 | 0.8 | 1 | 0 | 997 | 997 | 0 | 0.31 |
| 17/05/2021 02:01 | 33.1 | 25.4 | 0.8 | 1 | 0 | 997 | 998 | 0 | 0.33 |
| 17/05/2021 03:01 | 33.1 | 25.4 | 0.8 | 1 | 0 | 998 | 998 | 0 | 0.36 |
| 17/05/2021 04:01 | 33.1 | 25.2 | 0.8 | 1 | 0 | 999 | 999 | 0 | 0.28 |
| 17/05/2021 05:01 | 33.1 | 25.4 | 0.9 | 1 | 0 | 1000 | 1000 | 0 | 0.27 |
| 17/05/2021 06:01 | 33.0 | 25.1 | 0.9 | 1 | 0 | 1001 | 1001 | 0 | 0.27 |
| 17/05/2021 07:01 | 33.0 | 25.3 | 0.9 | 1 | 0 | 1002 | 1002 | 0 | 0.21 |
| 17/05/2021 08:01 | 33.0 | 25.4 | 1.0 | 1 | 0 | 1002 | 1003 | 1 | 0.24 |
| 17/05/2021 09:01 | 33.0 | 25.4 | 1.0 | 1 | 0 | 1003 | 1004 | 1 | 0.23 |
| 17/05/2021 10:01 | 33.0 | 25.4 | 1.1 | 1 | 0 | 1004 | 1005 | 1 | 0.28 |
| 17/05/2021 11:01 | 33.0 | 25.4 | 1.1 | 1 | 0 | 1005 | 1005 | 0 | 0.39 |
| 17/05/2021 12:01 | 33.0 | 25.4 | 1.1 | 1 | 0 | 1005 | 1005 | 0 | 0.33 |
| 17/05/2021 13:01 | 33.0 | 25.5 | 1.0 | 1 | 0 | 1005 | 1005 | 0 | 0.43 |
| 17/05/2021 14:01 | 33.0 | 25.5 | 1.1 | 1 | 0 | 1005 | 1006 | 0 | 0.32 |
| 17/05/2021 15:01 | 32.9 | 25.6 | 1.3 | 0 | 0 | 1007 | 1007 | 0 | 0.31 |
| 17/05/2021 16:01 | 33.0 | 25.5 | 1.1 | 0 | 0 | 1007 | 1007 | 0 | 0.42 |
| 17/05/2021 17:01 | 33.0 | 25.5 | 1.0 | 1 | 0 | 1007 | 1007 | 0 | 0.42 |
| 17/05/2021 18:01 | 33.0 | 25.6 | 1.0 | 1 | 0 | 1007 | 1007 | 0 | 0.28 |
| 17/05/2021 19:01 | 33.0 | 25.4 | 0.9 | 1 | 0 | 1008 | 1008 | 0 | 0.28 |
| 17/05/2021 20:01 | 33.0 | 25.5 | 0.9 | 1 | 0 | 1008 | 1008 | 0 | 0.27 |
| 17/05/2021 21:01 | 33.1 | 25.5 | 0.8 | 1 | 0 | 1009 | 1009 | 0 | 0.32 |
| 17/05/2021 22:01 | 33.1 | 25.4 | 0.7 | 1 | 0 | 1009 | 1009 | 0 | 0.39 |
| 17/05/2021 23:01 | 33.2 | 25.6 | 0.7 | 1 | 0 | 1010 | 1010 | 0 | 0.35 |
| 18/05/2021 00:01 | 33.1 | 25.3 | 0.7 | 1 | 0 | 1010 | 1010 | 0 | 0.36 |
| 18/05/2021 01:01 | 33.1 | 25.4 | 0.7 | 1 | 0 | 1010 | 1010 | 0 | 0.36 |
| 18/05/2021 02:01 | 33.0 | 25.2 | 0.7 | 1 | 0 | 1010 | 1010 | 0 | 0.30 |
| 18/05/2021 03:01 | 32.9 | 25.1 | 0.6 | 1 | 0 | 1010 | 1010 | 0 | 0.39 |
| 18/05/2021 04:01 | 32.8 | 25.1 | 0.6 | 1 | 0 | 1010 | 1011 | 0 | 0.22 |
| 18/05/2021 05:01 | 32.8 | 24.9 | 0.7 | 1 | 0 | 1011 | 1011 | 0 | 0.41 |
| 18/05/2021 06:01 | 32.8 | 25.1 | 0.7 | 1 | 0 | 1011 | 1012 | 0 | 0.33 |
| 18/05/2021 07:01 | 32.7 | 25.1 | 0.8 | 1 | 0 | 1011 | 1012 | 1 | 0.35 |
| 18/05/2021 08:01 | 32.7 | 25.2 | 0.9 | 1 | 0 | 1012 | 1012 | 0 | 0.28 |
| 18/05/2021 09:01 | 32.8 | 25.2 | 0.9 | 1 | 0 | 1012 | 1012 | 0 | 0.32 |
| 18/05/2021 10:01 | 32.8 | 25.3 | 1.0 | 1 | 0 | 1012 | 1013 | 0 | 0.38 |
| 18/05/2021 11:01 | 32.8 | 25.4 | 1.0 | 1 | 0 | 1012 | 1012 | 0 | 0.27 |
| 18/05/2021 12:01 | 32.9 | 25.4 | 1.0 | 1 | 0 | 1012 | 1013 | 0 | 0.34 |
| 18/05/2021 13:01 | 33.0 | 25.4 | 1.0 | 0 | 0 | 1013 | 1013 | 0 | 0.39 |
| 18/05/2021 14:01 | 33.0 | 25.5 | 1.0 | 0 | 0 | 1013 | 1013 | 0 | 0.39 |
| 18/05/2021 15:01 | 33.1 | 25.7 | 1.0 | 0 | 0 | 1013 | 1013 | 0 | 0.50 |
| 18/05/2021 16:01 | 33.2 | 25.7 | 0.9 | 0 | 0 | 1013 | 1013 | 0 | 0.39 |
| 18/05/2021 17:01 | 33.2 | 25.6 | 0.8 | 1 | 0 | 1013 | 1013 | 0 | 0.56 |
| 18/05/2021 18:01 | 33.2 | 25.6 | 0.7 | 1 | 0 | 1013 | 1013 | 0 | 0.40 |
| 18/05/2021 19:01 | 33.3 | 25.6 | 0.7 | 1 | 0 | 1013 | 1013 | 0 | 0.45 |
| 18/05/2021 20:01 | 33.3 | 25.6 | 0.7 | 1 | 0 | 1013 | 1013 | 0 | 0.28 |
| 18/05/2021 21:01 | 33.3 | 25.8 | 0.7 | 1 | 0 | 1013 | 1014 | 0 | 0.27 |
| 18/05/2021 22:01 | 33.3 | 25.7 | 0.7 | 1 | 0 | 1013 | 1013 | 0 | 0.49 |
| 18/05/2021 23:01 | 33.3 | 25.5 | 0.7 | 1 | 0 | 1013 | 1013 | 0 | 0.46 |

| Date and Time | Water Level mbgl | Atmospheric Pressure mbar | Temperature °C |
|---|---|---|---|
| 10/05/2021 22:17 | 8.19 | 1003 | 9.9 |
| 10/05/2021 23:17 | 8.19 | 1004 | 9.2 |
| 11/05/2021 00:17 | 8.20 | 1004 | 9.5 |
| 11/05/2021 01:17 | 8.19 | 1003 | 9.6 |
| 11/05/2021 02:17 | 8.19 | 1003 | 8.8 |
| 11/05/2021 03:17 | 8.19 | 1003 | 7.7 |
| 11/05/2021 04:17 | 8.19 | 1003 | 6.9 |
| 11/05/2021 05:17 | 8.19 | 1004 | 7.7 |
| 11/05/2021 06:17 | 8.20 | 1004 | 10.4 |
| 11/05/2021 07:17 | 8.20 | 1004 | 13.7 |
| 11/05/2021 08:17 | 8.20 | 1004 | 16.8 |
| 11/05/2021 09:17 | 8.19 | 1004 | 19.4 |
| 11/05/2021 10:17 | 8.19 | 1005 | 20.4 |
| 11/05/2021 11:17 | 8.20 | 1005 | 18.7 |
| 11/05/2021 12:17 | 8.20 | 1005 | 19.3 |
| 11/05/2021 13:17 | 8.20 | 1005 | 21.6 |
| 11/05/2021 14:17 | 8.20 | 1004 | 22.7 |
| 11/05/2021 15:17 | 8.20 | 1004 | 21.1 |
| 11/05/2021 16:17 | 8.20 | 1004 | 16.8 |
| 11/05/2021 17:17 | 8.19 | 1004 | 15.2 |
| 11/05/2021 18:17 | 8.20 | 1004 | 14.4 |
| 11/05/2021 19:17 | 8.20 | 1005 | 12.8 |
| 11/05/2021 20:17 | 8.20 | 1005 | 11.8 |
| 11/05/2021 21:17 | 8.20 | 1006 | 11.1 |
| 11/05/2021 22:17 | 8.20 | 1006 | 11.2 |
| 11/05/2021 23:17 | 8.20 | 1006 | 10.5 |
| 12/05/2021 00:17 | 8.20 | 1006 | 10.2 |
| 12/05/2021 01:17 | 8.20 | 1006 | 9.6 |
| 12/05/2021 02:17 | 8.20 | 1006 | 9.0 |
| 12/05/2021 03:17 | 8.20 | 1006 | 8.4 |
| 12/05/2021 04:17 | 8.20 | 1006 | 8.0 |
| 12/05/2021 05:17 | 8.20 | 1006 | 8.4 |
| 12/05/2021 06:17 | 8.20 | 1007 | 12.1 |
| 12/05/2021 07:17 | 8.20 | 1007 | 15.8 |
| 12/05/2021 08:17 | 8.20 | 1007 | 17.1 |
| 12/05/2021 09:17 | 8.20 | 1007 | 16.2 |
| 12/05/2021 10:17 | 8.20 | 1006 | 19.8 |
| 12/05/2021 11:17 | 8.20 | 1006 | 22.1 |
| 12/05/2021 12:17 | 8.20 | 1006 | 23.1 |
| 12/05/2021 13:17 | 8.20 | 1006 | 22.4 |
| 12/05/2021 14:17 | 8.20 | 1005 | 22.1 |
| 12/05/2021 15:17 | 8.20 | 1005 | 21.0 |
| 12/05/2021 16:17 | 8.20 | 1005 | 17.0 |
| 12/05/2021 17:17 | 8.20 | 1004 | 15.7 |
| 12/05/2021 18:17 | 8.20 | 1004 | 14.6 |
| 12/05/2021 19:17 | 8.20 | 1004 | 13.6 |
| 12/05/2021 20:17 | 8.20 | 1004 | 12.7 |
| 12/05/2021 21:17 | 8.20 | 1004 | 12.4 |
| 12/05/2021 22:17 | 8.20 | 1003 | 12.1 |
| 12/05/2021 23:17 | 8.20 | 1002 | 12.0 |
| 13/05/2021 00:17 | 8.20 | 1002 | 11.9 |
| 13/05/2021 01:17 | 8.20 | 1001 | 12.0 |
| 13/05/2021 02:17 | 8.20 | 1001 | 11.2 |
| 13/05/2021 03:17 | 8.20 | 1001 | 10.2 |
| 13/05/2021 04:17 | 8.20 | 1001 | 9.7 |
| 13/05/2021 05:17 | 8.20 | 1001 | 9.7 |
| 13/05/2021 06:17 | 8.20 | 1001 | 10.0 |
| 13/05/2021 07:17 | 8.20 | 1001 | 10.1 |
| 13/05/2021 08:17 | 8.20 | 1002 | 11.9 |
| 13/05/2021 09:17 | 8.20 | 1002 | 13.0 |
| 13/05/2021 10:17 | 8.20 | 1002 | 13.2 |
| 13/05/2021 11:17 | 8.20 | 1001 | 15.8 |
| 13/05/2021 12:17 | 8.20 | 1002 | 17.2 |
| 13/05/2021 13:17 | 8.20 | 1002 | 17.2 |
| 13/05/2021 14:17 | 8.20 | 1002 | 15.6 |
| 13/05/2021 15:17 | 8.20 | 1002 | 14.5 |
| 13/05/2021 16:17 | 8.20 | 1002 | 15.0 |
| 13/05/2021 17:17 | 8.20 | 1002 | 12.2 |
| 13/05/2021 18:17 | 8.20 | 1002 | 11.4 |
| 13/05/2021 19:17 | 8.20 | 1003 | 10.5 |
| 13/05/2021 20:17 | 8.20 | 1003 | 10.1 |
| 13/05/2021 21:17 | 8.20 | 1003 | 9.9 |
| 13/05/2021 22:17 | 8.20 | 1004 | 9.2 |
| 13/05/2021 23:17 | 8.20 | 1004 | 9.3 |
| 14/05/2021 00:17 | 8.20 | 1004 | 9.3 |
| 14/05/2021 01:17 | 8.20 | 1004 | 9.3 |
| 14/05/2021 02:17 | 8.20 | 1004 | 9.2 |
| 14/05/2021 03:17 | 8.20 | 1004 | 9.1 |
| 14/05/2021 04:17 | 8.20 | 1004 | 9.1 |
| 14/05/2021 05:17 | 8.20 | 1005 | 9.3 |
| 14/05/2021 06:17 | 8.20 | 1006 | 10.4 |
| 14/05/2021 07:17 | 8.20 | 1007 | 11.1 |
| 14/05/2021 08:17 | 8.20 | 1007 | 12.0 |
| 14/05/2021 09:17 | 8.20 | 1007 | 12.7 |
| 14/05/2021 10:17 | 8.20 | 1008 | 14.4 |
| 14/05/2021 11:17 | 8.20 | 1008 | 16.8 |
| 14/05/2021 12:17 | 8.20 | 1008 | 16.4 |
| 14/05/2021 13:17 | 8.20 | 1007 | 16.9 |
| 14/05/2021 14:17 | 8.20 | 1007 | 17.6 |
| 14/05/2021 15:17 | 8.20 | 1007 | 15.9 |
| 14/05/2021 16:17 | 8.20 | 1007 | 14.4 |
| 14/05/2021 17:17 | 8.20 | 1006 | 13.7 |
| 14/05/2021 18:17 | 8.20 | 1006 | 13.1 |
| 14/05/2021 19:17 | 8.20 | 1005 | 11.6 |
| 14/05/2021 20:17 | 8.20 | 1005 | 10.4 |
| 14/05/2021 21:17 | 8.20 | 1005 | 9.8 |
| 14/05/2021 22:17 | 8.20 | 1004 | 10.1 |
| 14/05/2021 23:17 | 8.20 | 1004 | 10.1 |
| 15/05/2021 00:17 | 8.20 | 1003 | 10.2 |
| 15/05/2021 01:17 | 8.20 | 1002 | 10.2 |
| 15/05/2021 02:17 | 8.20 | 1001 | 9.7 |
| 15/05/2021 03:17 | 8.20 | 1000 | 9.4 |
| 15/05/2021 04:17 | 8.20 | 999 | 9.2 |
| 15/05/2021 05:17 | 8.20 | 998 | 9.1 |
| 15/05/2021 06:17 | 8.20 | 998 | 8.9 |
| 15/05/2021 07:17 | 8.20 | 997 | 9.4 |
| 15/05/2021 08:17 | 8.20 | 997 | 9.8 |
| 15/05/2021 09:17 | 8.20 | 996 | 11.2 |
| 15/05/2021 10:17 | 8.20 | 997 | 12.5 |
| 15/05/2021 11:17 | 8.20 | 997 | 13.9 |
| 15/05/2021 12:17 | 8.20 | 997 | 17.3 |
| 15/05/2021 13:17 | 8.20 | 997 | 17.5 |
| 15/05/2021 14:17 | 8.20 | 997 | 14.5 |
| 15/05/2021 15:17 | 8.20 | 997 | 16.2 |
| 15/05/2021 16:17 | 8.20 | 997 | 18.8 |
| 15/05/2021 17:17 | 8.20 | 997 | 15.7 |
| 15/05/2021 18:17 | 8.20 | 997 | 14.4 |
| 15/05/2021 19:17 | 8.20 | 997 | 12.7 |
| 15/05/2021 20:17 | 8.20 | 998 | 10.6 |
| 15/05/2021 21:17 | 8.20 | 998 | 10.8 |
| 15/05/2021 22:17 | 8.20 | 998 | 10.6 |
| 15/05/2021 23:17 | 8.20 | 998 | 10.4 |
| 16/05/2021 00:17 | 8.20 | 997 | 9.3 |
| 16/05/2021 01:17 | 8.20 | 997 | 9.2 |
| 16/05/2021 02:17 | 8.20 | 997 | 9.0 |
| 16/05/2021 03:17 | 8.20 | 997 | 9.0 |

| Date and Time | $CH_4$ % v/v | $CO_2$ % v/v | $O_2$ % v/v | $H_2S$ ppm/v | CO ppm/v | Borehole Pressure mbar | Atmospheric Pressure mbar | Differential Pressure mbar | Flow Ltr/hr |
|---|---|---|---|---|---|---|---|---|---|
| 19/05/2021 00:01 | 33.2 | 25.5 | 0.7 | 1 | 0 | 1013 | 1013 | 0 | 0.38 |
| 19/05/2021 01:01 | 33.2 | 25.5 | 0.7 | 1 | 0 | 1012 | 1013 | 0 | 0.41 |
| 19/05/2021 02:01 | 33.1 | 25.6 | 0.7 | 1 | 0 | 1012 | 1012 | 0 | 0.38 |
| 19/05/2021 03:01 | 33.0 | 25.5 | 0.7 | 1 | 0 | 1012 | 1012 | 0 | 0.48 |
| 19/05/2021 04:01 | 32.9 | 25.2 | 0.6 | 1 | 0 | 1012 | 1013 | 0 | 0.32 |
| 19/05/2021 05:01 | 32.8 | 25.2 | 0.6 | 1 | 0 | 1013 | 1013 | 0 | 0.30 |
| 19/05/2021 06:01 | 32.8 | 25.1 | 0.7 | 1 | 0 | 1014 | 1014 | 0 | 0.25 |
| 19/05/2021 07:01 | 32.8 | 25.2 | 0.7 | 1 | 0 | 1014 | 1015 | 0 | 0.30 |

| Date and Time | Water Level mbgl | Atmospheric Pressure mbar | Temperature °C |
|---|---|---|---|
| 16/05/2021 04:17 | 8.20 | 996 | 9.1 |
| 16/05/2021 05:17 | 8.20 | 996 | 8.5 |
| 16/05/2021 06:17 | 8.20 | 997 | 10.9 |
| 16/05/2021 07:17 | 8.20 | 996 | 10.0 |
| 16/05/2021 08:17 | 8.20 | 996 | 10.6 |
| 16/05/2021 09:17 | 8.20 | 996 | 12.4 |
| 16/05/2021 10:17 | 8.20 | 996 | 15.8 |
| 16/05/2021 11:17 | 8.20 | 996 | 15.9 |
| 16/05/2021 12:17 | 8.20 | 995 | 17.2 |
| 16/05/2021 13:17 | 8.20 | 995 | 13.9 |
| 16/05/2021 14:17 | 8.20 | 994 | 15.2 |
| 16/05/2021 15:17 | 8.20 | 994 | 15.0 |
| 16/05/2021 16:17 | 8.20 | 993 | 13.5 |
| 16/05/2021 17:17 | 8.20 | 993 | 12.2 |
| 16/05/2021 18:17 | 8.20 | 992 | 11.8 |
| 16/05/2021 19:17 | 8.20 | 993 | 11.8 |
| 16/05/2021 20:17 | 8.20 | 993 | 11.0 |
| 16/05/2021 21:17 | 8.20 | 994 | 10.6 |
| 16/05/2021 22:17 | 8.20 | 995 | 10.4 |
| 16/05/2021 23:17 | 8.20 | 996 | 9.8 |
| 17/05/2021 00:17 | 8.20 | 996 | 9.6 |
| 17/05/2021 01:17 | 8.20 | 997 | 9.4 |
| 17/05/2021 02:17 | 8.20 | 997 | 9.2 |
| 17/05/2021 03:17 | 8.20 | 998 | 8.7 |
| 17/05/2021 04:17 | 8.20 | 999 | 8.9 |
| 17/05/2021 05:17 | 8.20 | 1000 | 8.9 |
| 17/05/2021 06:17 | 8.20 | 1001 | 10.1 |
| 17/05/2021 07:17 | 8.20 | 1002 | 11.6 |
| 17/05/2021 08:17 | 8.21 | 1003 | 13.8 |
| 17/05/2021 09:17 | 8.21 | 1003 | 16.3 |
| 17/05/2021 10:17 | 8.21 | 1004 | 17.4 |
| 17/05/2021 11:17 | 8.21 | 1004 | 14.9 |
| 17/05/2021 12:17 | 8.21 | 1004 | 15.1 |
| 17/05/2021 13:17 | 8.21 | 1004 | 19.8 |
| 17/05/2021 14:17 | 8.20 | 1004 | 21.3 |
| 17/05/2021 15:17 | 8.21 | 1005 | 19.8 |
| 17/05/2021 16:17 | 8.21 | 1006 | 16.2 |
| 17/05/2021 17:17 | 8.21 | 1006 | 17.7 |
| 17/05/2021 18:17 | 8.21 | 1006 | 18.4 |
| 17/05/2021 19:17 | 8.21 | 1007 | 14.4 |
| 17/05/2021 20:17 | 8.21 | 1007 | 12.3 |
| 17/05/2021 21:17 | 8.21 | 1008 | 11.2 |
| 17/05/2021 22:17 | 8.21 | 1009 | 10.9 |
| 17/05/2021 23:17 | 8.21 | 1009 | 9.9 |
| 18/05/2021 00:17 | 8.21 | 1009 | 7.9 |
| 18/05/2021 01:17 | 8.21 | 1009 | 7.7 |
| 18/05/2021 02:17 | 8.21 | 1010 | 6.4 |
| 18/05/2021 03:17 | 8.21 | 1010 | 6.0 |
| 18/05/2021 04:17 | 8.21 | 1010 | 5.6 |
| 18/05/2021 05:17 | 8.21 | 1010 | 7.1 |
| 18/05/2021 06:17 | 8.21 | 1011 | 11.8 |
| 18/05/2021 07:17 | 8.21 | 1011 | 15.9 |
| 18/05/2021 08:17 | 8.21 | 1011 | 16.0 |
| 18/05/2021 09:17 | 8.21 | 1011 | 18.1 |
| 18/05/2021 10:17 | 8.21 | 1011 | 20.3 |
| 18/05/2021 11:17 | 8.21 | 1011 | 19.7 |
| 18/05/2021 12:17 | 8.21 | 1011 | 21.9 |
| 18/05/2021 13:17 | 8.21 | 1011 | 22.9 |
| 18/05/2021 14:17 | 8.21 | 1011 | 23.7 |
| 18/05/2021 15:17 | 8.21 | 1011 | 23.1 |
| 18/05/2021 16:17 | 8.21 | 1012 | 17.9 |
| 18/05/2021 17:17 | 8.21 | 1012 | 15.5 |
| 18/05/2021 18:17 | 8.21 | 1012 | 15.3 |
| 18/05/2021 19:17 | 8.21 | 1012 | 13.5 |
| 18/05/2021 20:17 | 8.21 | 1012 | 12.2 |
| 18/05/2021 21:17 | 8.21 | 1013 | 11.5 |
| 18/05/2021 22:17 | 8.21 | 1012 | 11.1 |
| 18/05/2021 23:17 | 8.21 | 1012 | 10.6 |
| 19/05/2021 00:17 | 8.21 | 1012 | 10.6 |
| 19/05/2021 01:17 | 8.21 | 1012 | 10.2 |
| 19/05/2021 02:17 | 8.21 | 1011 | 10.1 |
| 19/05/2021 03:17 | 8.21 | 1011 | 9.4 |
| 19/05/2021 04:17 | 8.21 | 1012 | 9.0 |
| 19/05/2021 05:17 | 8.21 | 1012 | 9.0 |
| 19/05/2021 06:17 | 8.21 | 1013 | 9.7 |
| 19/05/2021 07:17 | 8.21 | 1014 | 10.6 |

# GGS Time Series Data

Experts in Continuous Monitoring

| | | |
|---|---|---|
| **Project Ref:** | GGS2440 | |
| **Location:** | Broadmarsh open Space, Harts Farm Way | |
| **Borehole ref:** | RO102 | |
| **Monitoring schedule:** | GC22/09/14 (90 mins) | 20/04/21 - 29/04/21 (90 mins) |
| | GS03000054 | 29/04/21 - 19/05/21 (60 mins) |
| **Start Date:** | 20/04/2021 18:15 | Days of monitoring: 29 |
| **End Date:** | 19/05/2021 08:02 | Total samples taken: 615 |

**Minimum, Maximum and Range Table**

| | $CH_4$ | $CO_2$ | $O_2$ | $H_2S$ | CO | Borehole Pressure | Atmospheric Pressure | Differential Pressure | Flow | | Barologger Water Level | Barologger Atmospheric Pressure | Barologger Temperature |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | % v/v | % v/v | % v/v | ppm/v | ppm/v | mbar | mbar | mbar | Ltr/hr | | mbgl | mbar | °C |
| **Minimum** | 44.9 | 20.3 | 0.0 | 0 | 0 | 1003 | 992 | -1 | -0.67 | | 7.74 | 992 | 0.3 |
| **Maximum** | 64.8 | 26.4 | 4.8 | 1 | 7 | 1028 | 1028 | 1 | 2.55 | | 8.17 | 1026 | 23.8 |
| **Range** | 19.9 | 6.1 | 4.8 | 1 | 7 | 25 | 36 | N/A | 3.22 | | 0.43 | 34 | 23.5 |

| Date and Time | $CH_4$ % v/v | $CO_2$ % v/v | $O_2$ % v/v | $H_2S$ ppm/v | CO ppm/v | Borehole Pressure mbar | Atmospheric Pressure mbar | Differential Pressure mbar | Flow Ltr/hr | | Barologger Water Level mbgl | Barologger Atmospheric Pressure mbar | Barologger Temperature °C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20/04/2021 18:15 | 51.4 | 24.5 | 0.3 | 1 | 2 | 1016 | 1016 | 0 | NM | 20/04/2021 18:17 | 7.81 | 1014 | 14.4 |
| 20/04/2021 19:44 | 53.1 | 25.5 | 0.3 | 0 | 2 | 1017 | 1017 | 0 | NM | 20/04/2021 19:17 | 7.83 | 1015 | 11.8 |
| 20/04/2021 21:14 | 54.0 | 25.7 | 0.3 | 0 | 2 | 1017 | 1017 | 0 | NM | 20/04/2021 20:17 | 7.87 | 1015 | 9.9 |
| 20/04/2021 22:44 | 54.8 | 25.7 | 0.3 | 0 | 2 | 1017 | 1017 | 0 | NM | 20/04/2021 21:17 | 7.91 | 1015 | 8.7 |
| 21/04/2021 00:14 | 54.8 | 25.7 | 0.3 | 0 | 2 | 1017 | 1017 | 0 | NM | 20/04/2021 22:17 | 7.95 | 1015 | 8.0 |
| 21/04/2021 01:44 | 54.9 | 25.4 | 0.3 | 0 | 2 | 1017 | 1017 | 0 | NM | 20/04/2021 23:17 | 7.96 | 1015 | 7.6 |
| 21/04/2021 03:14 | 55.4 | 25.2 | 0.3 | 0 | 2 | 1017 | 1017 | 0 | NM | 21/04/2021 00:17 | 7.97 | 1015 | 6.7 |
| 21/04/2021 04:44 | 55.6 | 25.1 | 0.3 | 0 | 2 | 1017 | 1017 | 0 | NM | 21/04/2021 01:17 | 7.98 | 1015 | 6.8 |
| 21/04/2021 06:14 | 55.7 | 25.1 | 0.3 | 0 | 2 | 1018 | 1017 | -1 | NM | 21/04/2021 02:17 | 7.97 | 1015 | 6.3 |
| 21/04/2021 07:44 | 55.8 | 25.1 | 0.3 | 0 | 2 | 1018 | 1018 | 0 | NM | 21/04/2021 03:17 | 7.95 | 1015 | 5.9 |
| 21/04/2021 09:14 | 55.8 | 24.9 | 0.3 | 0 | 2 | 1019 | 1018 | -1 | NM | 21/04/2021 04:17 | 7.92 | 1015 | 6.2 |
| 21/04/2021 10:44 | 54.9 | 24.5 | 0.3 | 0 | 2 | 1019 | 1019 | 0 | NM | 21/04/2021 05:17 | 7.88 | 1016 | 6.6 |
| 21/04/2021 12:14 | 54.4 | 24.5 | 0.3 | 0 | 2 | 1020 | 1019 | -1 | NM | 21/04/2021 06:17 | 7.86 | 1016 | 7.4 |
| 21/04/2021 13:44 | 54.9 | 24.5 | 0.3 | 0 | 2 | 1019 | 1019 | 0 | NM | 21/04/2021 07:17 | 7.87 | 1017 | 8.7 |
| 21/04/2021 15:14 | 55.2 | 24.4 | 0.3 | 0 | 2 | 1020 | 1019 | -1 | NM | 21/04/2021 08:17 | 7.89 | 1017 | 12.0 |
| 21/04/2021 16:44 | 55.2 | 24.3 | 0.3 | 0 | 2 | 1020 | 1020 | 0 | NM | 21/04/2021 09:17 | 7.92 | 1017 | 14.4 |
| 21/04/2021 18:14 | 55.7 | 24.5 | 0.3 | 0 | 2 | 1020 | 1020 | 0 | NM | 21/04/2021 10:17 | 7.95 | 1017 | 16.1 |
| 21/04/2021 19:44 | 55.4 | 24.8 | 0.3 | 0 | 2 | 1020 | 1020 | 0 | NM | 21/04/2021 11:17 | 7.97 | 1017 | 15.8 |
| 21/04/2021 21:14 | 56.1 | 24.8 | 0.3 | 0 | 2 | 1022 | 1022 | 0 | NM | 21/04/2021 12:17 | 7.98 | 1017 | 16.7 |
| 21/04/2021 22:44 | 56.4 | 24.8 | 0.3 | 0 | 2 | 1022 | 1022 | 0 | NM | 21/04/2021 13:17 | 7.98 | 1017 | 17.6 |
| 22/04/2021 00:14 | 56.1 | 25.0 | 0.3 | 0 | 2 | 1024 | 1023 | -1 | NM | 21/04/2021 14:17 | 7.97 | 1018 | 17.8 |
| 22/04/2021 01:44 | 56.7 | 25.0 | 0.3 | 0 | 2 | 1024 | 1024 | 0 | NM | 21/04/2021 15:17 | 7.96 | 1018 | 17.6 |
| 22/04/2021 03:14 | 56.7 | 25.0 | 0.3 | 0 | 2 | 1024 | 1024 | 0 | NM | 21/04/2021 16:17 | 7.93 | 1018 | 17.1 |
| 22/04/2021 04:44 | 56.8 | 24.9 | 0.3 | 0 | 2 | 1024 | 1024 | 0 | NM | 21/04/2021 17:17 | 7.89 | 1018 | 16.3 |
| 22/04/2021 06:14 | 57.0 | 25.1 | 0.3 | 0 | 2 | 1025 | 1025 | 0 | NM | 21/04/2021 18:17 | 7.85 | 1018 | 14.7 |
| 22/04/2021 07:44 | 56.8 | 24.9 | 0.3 | 0 | 2 | 1026 | 1025 | -1 | NM | 21/04/2021 19:17 | 7.82 | 1019 | 12.4 |
| 22/04/2021 09:14 | 56.7 | 25.0 | 0.3 | 0 | 2 | 1026 | 1026 | 0 | NM | 21/04/2021 20:17 | 7.82 | 1020 | 10.8 |
| 22/04/2021 10:44 | 56.6 | 25.0 | 0.3 | 0 | 2 | 1026 | 1026 | 0 | NM | 21/04/2021 21:17 | 7.84 | 1020 | 9.5 |
| 22/04/2021 12:14 | 56.1 | 24.9 | 0.3 | 0 | 2 | 1026 | 1025 | -1 | NM | 21/04/2021 22:17 | 7.87 | 1021 | 8.2 |
| 22/04/2021 13:44 | 56.5 | 24.8 | 0.3 | 0 | 2 | 1026 | 1025 | -1 | NM | 21/04/2021 23:17 | 7.91 | 1021 | 7.3 |
| 22/04/2021 15:14 | 56.3 | 25.0 | 0.3 | 0 | 2 | 1025 | 1025 | 0 | NM | 22/04/2021 00:17 | 7.94 | 1022 | 6.6 |
| 22/04/2021 16:44 | 56.1 | 24.9 | 0.3 | 0 | 2 | 1026 | 1025 | -1 | NM | 22/04/2021 01:17 | 7.95 | 1022 | 5.9 |
| 22/04/2021 18:14 | 56.1 | 24.7 | 0.3 | 0 | 2 | 1025 | 1025 | 0 | NM | 22/04/2021 02:17 | 7.95 | 1022 | 5.2 |
| 22/04/2021 19:44 | 56.6 | 24.6 | 0.3 | 0 | 2 | 1026 | 1026 | 0 | NM | 22/04/2021 03:17 | 7.95 | 1022 | 4.7 |
| 22/04/2021 21:14 | 57.4 | 24.9 | 0.3 | 0 | 2 | 1026 | 1026 | 0 | NM | 22/04/2021 04:17 | 7.94 | 1022 | 4.2 |
| 22/04/2021 22:44 | 57.4 | 25.0 | 0.3 | 0 | 2 | 1026 | 1026 | 0 | NM | 22/04/2021 05:17 | 7.92 | 1023 | 4.2 |
| 23/04/2021 00:14 | 57.2 | 25.0 | 0.3 | 0 | 2 | 1027 | 1027 | 0 | NM | 22/04/2021 06:17 | 7.88 | 1023 | 5.6 |
| 23/04/2021 01:44 | 57.5 | 25.0 | 0.3 | 0 | 2 | 1027 | 1027 | 0 | NM | 22/04/2021 07:17 | 7.85 | 1024 | 7.7 |
| 23/04/2021 03:14 | 57.7 | 25.0 | 0.3 | 0 | 2 | 1027 | 1027 | 0 | NM | 22/04/2021 08:17 | 7.84 | 1024 | 9.7 |
| 23/04/2021 04:44 | 57.5 | 24.9 | 0.3 | 0 | 2 | 1027 | 1026 | -1 | NM | 22/04/2021 09:17 | 7.84 | 1024 | 11.2 |
| 23/04/2021 06:14 | 57.5 | 25.1 | 0.3 | 0 | 2 | 1027 | 1027 | 0 | NM | 22/04/2021 10:17 | 7.87 | 1024 | 13.1 |
| 23/04/2021 07:44 | 57.9 | 25.2 | 0.3 | 0 | 2 | 1028 | 1027 | -1 | NM | 22/04/2021 11:17 | 7.91 | 1024 | 14.6 |
| 23/04/2021 09:14 | 57.9 | 24.9 | 0.3 | 0 | 2 | 1028 | 1028 | 0 | NM | 22/04/2021 12:17 | 7.94 | 1024 | 15.6 |
| 23/04/2021 10:44 | 57.4 | 25.1 | 0.3 | 0 | 2 | 1028 | 1027 | -1 | NM | 22/04/2021 13:17 | 7.96 | 1023 | 16.3 |
| 23/04/2021 12:14 | 56.7 | 24.9 | 0.3 | 0 | 2 | 1027 | 1027 | 0 | NM | 22/04/2021 14:17 | 7.97 | 1024 | 16.7 |
| 23/04/2021 13:44 | 57.4 | 25.0 | 0.3 | 0 | 2 | 1027 | 1026 | -1 | NM | 22/04/2021 15:17 | 7.96 | 1024 | 16.9 |
| 23/04/2021 15:14 | 56.9 | 24.7 | 0.3 | 0 | 2 | 1027 | 1026 | -1 | NM | 22/04/2021 16:17 | 7.96 | 1024 | 16.6 |
| 23/04/2021 16:44 | 57.0 | 24.9 | 0.3 | 0 | 2 | 1026 | 1026 | 0 | NM | 22/04/2021 17:17 | 7.94 | 1023 | 15.8 |
| 23/04/2021 18:14 | 56.8 | 24.8 | 0.3 | 0 | 2 | 1025 | 1025 | 0 | NM | 22/04/2021 18:17 | 7.90 | 1023 | 14.5 |
| 23/04/2021 19:44 | 57.4 | 24.8 | 0.3 | 0 | 2 | 1025 | 1025 | 0 | NM | 22/04/2021 19:17 | 7.85 | 1024 | 11.8 |
| 23/04/2021 21:14 | 56.8 | 24.8 | 0.3 | 0 | 2 | 1025 | 1025 | 0 | NM | 22/04/2021 20:17 | 7.80 | 1024 | 10.0 |
| 23/04/2021 22:44 | 57.2 | 25.0 | 0.3 | 0 | 2 | 1025 | 1025 | 0 | NM | 22/04/2021 21:17 | 7.79 | 1024 | 8.6 |
| 24/04/2021 00:14 | 57.6 | 25.2 | 0.3 | 0 | 2 | 1026 | 1026 | 0 | NM | 22/04/2021 22:17 | 7.80 | 1025 | 7.6 |
| 24/04/2021 01:44 | 57.8 | 24.9 | 0.3 | 0 | 2 | 1026 | 1026 | 0 | NM | 22/04/2021 23:17 | 7.84 | 1025 | 6.6 |
| 24/04/2021 03:14 | 57.6 | 24.8 | 0.3 | 0 | 2 | 1025 | 1025 | 0 | NM | 23/04/2021 00:17 | 7.89 | 1025 | 5.7 |
| 24/04/2021 04:44 | 57.5 | 25.4 | 0.3 | 0 | 2 | 1025 | 1025 | 0 | NM | 23/04/2021 01:17 | 7.93 | 1025 | 5.0 |
| 24/04/2021 06:14 | 57.5 | 24.9 | 0.3 | 0 | 2 | 1025 | 1025 | 0 | NM | 23/04/2021 02:17 | 7.95 | 1025 | 4.8 |
| 24/04/2021 07:44 | 57.0 | 25.1 | 0.3 | 0 | 2 | 1026 | 1026 | 0 | NM | 23/04/2021 03:17 | 7.95 | 1025 | 4.4 |
| 24/04/2021 09:14 | 57.5 | 25.0 | 0.3 | 0 | 2 | 1026 | 1026 | 0 | NM | 23/04/2021 04:17 | 7.96 | 1025 | 4.2 |
| 24/04/2021 10:44 | 57.3 | 25.0 | 0.3 | 0 | 2 | 1026 | 1026 | 0 | NM | 23/04/2021 05:17 | 7.95 | 1025 | 4.0 |
| 24/04/2021 12:14 | 57.9 | 25.0 | 0.3 | 0 | 2 | 1026 | 1025 | -1 | NM | 23/04/2021 06:17 | 7.92 | 1026 | 5.9 |
| 24/04/2021 13:44 | 57.4 | 24.8 | 0.3 | 0 | 2 | 1025 | 1025 | 0 | NM | 23/04/2021 07:17 | 7.87 | 1026 | 8.5 |
| 24/04/2021 15:14 | 57.0 | 24.9 | 0.3 | 0 | 2 | 1025 | 1025 | 0 | NM | 23/04/2021 08:17 | 7.82 | 1026 | 10.4 |
| 24/04/2021 16:44 | 57.1 | 24.7 | 0.3 | 0 | 2 | 1024 | 1024 | 0 | NM | 23/04/2021 09:17 | 7.79 | 1026 | 12.5 |
| 24/04/2021 18:14 | 57.2 | 24.9 | 0.3 | 0 | 2 | 1024 | 1024 | 0 | NM | 23/04/2021 10:17 | 7.80 | 1026 | 14.2 |
| 24/04/2021 19:44 | 57.1 | 25.1 | 0.3 | 0 | 2 | 1024 | 1024 | 0 | NM | 23/04/2021 11:17 | 7.83 | 1026 | 15.5 |
| 24/04/2021 21:14 | 57.7 | 25.1 | 0.3 | 0 | 2 | 1025 | 1025 | 0 | NM | 23/04/2021 12:17 | 7.88 | 1025 | 16.3 |
| 24/04/2021 22:44 | 57.8 | 25.2 | 0.3 | 0 | 2 | 1026 | 1026 | 0 | NM | 23/04/2021 13:17 | 7.93 | 1025 | 16.9 |
| 25/04/2021 00:14 | 58.0 | 25.2 | 0.3 | 0 | 2 | 1026 | 1026 | 0 | NM | 23/04/2021 14:17 | 7.96 | 1024 | 17.4 |
| 25/04/2021 01:44 | 57.9 | 25.4 | 0.3 | 0 | 2 | 1026 | 1026 | 0 | NM | 23/04/2021 15:17 | 7.97 | 1024 | 17.8 |
| 25/04/2021 03:14 | 58.2 | 25.0 | 0.3 | 0 | 2 | 1026 | 1026 | 0 | NM | 23/04/2021 16:17 | 7.98 | 1024 | 17.7 |
| 25/04/2021 04:44 | 57.9 | 25.5 | 0.3 | 0 | 2 | 1026 | 1026 | 0 | NM | 23/04/2021 17:17 | 7.97 | 1023 | 17.3 |
| 25/04/2021 06:14 | 58.1 | 25.0 | 0.3 | 0 | 2 | 1026 | 1026 | 0 | NM | 23/04/2021 18:17 | 7.96 | 1023 | 15.2 |
| 25/04/2021 07:44 | 57.7 | 25.4 | 0.3 | 0 | 2 | 1027 | 1027 | 0 | NM | 23/04/2021 19:17 | 7.91 | 1023 | 12.9 |
| 25/04/2021 09:14 | 57.9 | 25.4 | 0.3 | 0 | 2 | 1027 | 1027 | 0 | NM | 23/04/2021 20:17 | 7.84 | 1024 | 11.0 |
| 25/04/2021 10:44 | 57.4 | 25.4 | 0.3 | 0 | 2 | 1027 | 1027 | 0 | NM | 23/04/2021 21:17 | 7.78 | 1023 | 10.1 |
| 25/04/2021 12:14 | 57.7 | 25.2 | 0.3 | 0 | 2 | 1027 | 1026 | -1 | NM | 23/04/2021 22:17 | 7.76 | 1024 | 9.5 |
| 25/04/2021 13:44 | 57.9 | 25.2 | 0.3 | 0 | 2 | 1027 | 1026 | -1 | NM | 23/04/2021 23:17 | 7.78 | 1024 | 8.7 |
| 25/04/2021 15:14 | 58.0 | 25.1 | 0.3 | 0 | 2 | 1026 | 1026 | 0 | NM | 24/04/2021 00:17 | 7.83 | 1024 | 8.2 |
| 25/04/2021 16:44 | 57.4 | 25.3 | 0.3 | 0 | 2 | 1024 | 1024 | 0 | NM | 24/04/2021 01:17 | 7.89 | 1023 | 7.7 |
| 25/04/2021 18:14 | 57.6 | 24.9 | 0.3 | 0 | 2 | 1024 | 1024 | 0 | NM | 24/04/2021 02:17 | 7.94 | 1023 | 7.5 |
| 25/04/2021 19:44 | 56.9 | 25.1 | 0.3 | 0 | 2 | 1024 | 1024 | 0 | NM | 24/04/2021 03:17 | 7.97 | 1023 | 7.0 |
| 25/04/2021 21:14 | 58.0 | 25.1 | 0.3 | 0 | 2 | 1025 | 1025 | 0 | NM | 24/04/2021 04:17 | 7.98 | 1023 | 6.5 |
| 25/04/2021 22:44 | 58.1 | 25.4 | 0.3 | 0 | 2 | 1024 | 1024 | 0 | NM | 24/04/2021 05:17 | 7.98 | 1023 | 6.4 |
| 26/04/2021 00:14 | 58.3 | 25.4 | 0.3 | 0 | 2 | 1024 | 1024 | 0 | NM | 24/04/2021 06:17 | 7.97 | 1024 | 8.1 |
| 26/04/2021 01:44 | 58.3 | 25.4 | 0.3 | 0 | 2 | 1024 | 1024 | 0 | NM | 24/04/2021 07:17 | 7.93 | 1024 | 10.4 |
| 26/04/2021 03:14 | 58.2 | 25.4 | 0.3 | 0 | 2 | 1024 | 1023 | -1 | NM | 24/04/2021 08:17 | 7.87 | 1024 | 12.4 |
| 26/04/2021 04:44 | 57.8 | 25.4 | 0.3 | 0 | 2 | 1023 | 1023 | 0 | NM | 24/04/2021 09:17 | 7.80 | 1024 | 13.9 |
| 26/04/2021 06:14 | 57.9 | 25.2 | 0.3 | 0 | 2 | 1023 | 1022 | -1 | NM | 24/04/2021 10:17 | 7.78 | 1024 | 15.4 |
| 26/04/2021 07:44 | 58.4 | 25.2 | 0.3 | 0 | 2 | 1022 | 1022 | 0 | NM | 24/04/2021 11:17 | 7.79 | 1024 | 16.6 |
| 26/04/2021 09:14 | 58.1 | 25.2 | 0.3 | 0 | 2 | 1022 | 1022 | 0 | NM | 24/04/2021 12:17 | 7.83 | 1023 | 17.4 |
| 26/04/2021 10:44 | 57.5 | 25.1 | 0.3 | 0 | 2 | 1022 | 1021 | -1 | NM | 24/04/2021 13:17 | 7.90 | 1023 | 18.0 |
| 26/04/2021 12:14 | 57.1 | 25.2 | 0.3 | 0 | 2 | 1020 | 1020 | 0 | NM | 24/04/2021 14:17 | 7.95 | 1023 | 18.8 |
| 26/04/2021 13:44 | 57.6 | 25.2 | 0.3 | 0 | 2 | 1019 | 1019 | 0 | NM | 24/04/2021 15:17 | 7.98 | 1022 | 18.9 |
| 26/04/2021 15:14 | 57.9 | 24.8 | 0.3 | 0 | 2 | 1018 | 1017 | -1 | NM | 24/04/2021 16:17 | 7.99 | 1022 | 18.5 |
| 26/04/2021 16:44 | 57.5 | 25.0 | 0.3 | 0 | 2 | 1017 | 1016 | -1 | NM | 24/04/2021 17:17 | 7.99 | 1022 | 17.5 |
| 26/04/2021 18:14 | 57.1 | 24.8 | 0.3 | 0 | 2 | 1016 | 1016 | 0 | NM | 24/04/2021 18:17 | 7.99 | 1022 | 16.0 |
| 26/04/2021 19:44 | 57.0 | 25.0 | 0.3 | 0 | 2 | 1015 | 1015 | 0 | NM | 24/04/2021 19:17 | 7.97 | 1023 | 13.3 |
| 26/04/2021 21:14 | 57.4 | 25.2 | 0.3 | 0 | 2 | 1015 | 1016 | 1 | NM | 24/04/2021 20:17 | 7.91 | 1023 | 11.6 |
| 26/04/2021 22:44 | 57.0 | 25.1 | 0.3 | 0 | 2 | 1015 | 1015 | 0 | NM | 24/04/2021 21:17 | 7.82 | 1024 | 10.3 |
| 27/04/2021 00:14 | 56.9 | 25.4 | 0.3 | 0 | 2 | 1015 | 1015 | 0 | NM | 24/04/2021 22:17 | 7.75 | 1024 | 9.1 |
| 27/04/2021 01:44 | 57.4 | 25.1 | 0.3 | 0 | 2 | 1014 | 1014 | 0 | NM | 24/04/2021 23:17 | 7.74 | 1024 | 8.2 |
| 27/04/2021 03:14 | 57.2 | 25.1 | 0.3 | 0 | 2 | 1013 | 1013 | 0 | NM | 25/04/2021 00:17 | 7.77 | 1024 | 7.5 |
| 27/04/2021 04:44 | 57.4 | 25.1 | 0.3 | 0 | 2 | 1013 | 1013 | 0 | NM | 25/04/2021 01:17 | 7.83 | 1024 | 7.1 |
| 27/04/2021 06:14 | 57.4 | 25.0 | 0.3 | 0 | 2 | 1012 | 1012 | 0 | NM | 25/04/2021 02:17 | 7.90 | 1024 | 6.6 |
| 27/04/2021 07:44 | 57.4 | 24.9 | 0.3 | 0 | 2 | 1012 | 1011 | -1 | NM | 25/04/2021 03:17 | 7.95 | 1024 | 6.3 |

| Date and Time | $CH_4$ % v/v | $CO_2$ % v/v | $O_2$ % v/v | $H_2S$ ppm/v | CO ppm/v | Borehole Pressure mbar | Atmospheric Pressure mbar | Differential Pressure mbar | Flow Ltr/hr | | Water Level mbgl | Atmospheric Pressure mbar | Temperature °C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 27/04/2021 09:14 | 57.1 | 25.2 | 0.3 | 0 | 2 | 1011 | 1011 | 0 | NM | 25/04/2021 04:17 | 7.97 | 1024 | 6.1 |
| 27/04/2021 10:44 | 57.2 | 25.2 | 0.3 | 0 | 2 | 1011 | 1010 | -1 | NM | 25/04/2021 05:17 | 7.98 | 1024 | 6.0 |
| 27/04/2021 12:14 | 56.8 | 24.9 | 0.3 | 0 | 2 | 1010 | 1009 | -1 | NM | 25/04/2021 06:17 | 7.98 | 1025 | 7.4 |
| 27/04/2021 13:44 | 56.4 | 25.0 | 0.3 | 0 | 2 | 1009 | 1009 | 0 | NM | 25/04/2021 07:17 | 7.97 | 1025 | 9.1 |
| 27/04/2021 15:14 | 56.4 | 24.9 | 0.3 | 0 | 2 | 1008 | 1008 | 0 | NM | 25/04/2021 08:17 | 7.92 | 1025 | 10.7 |
| 27/04/2021 16:44 | 56.6 | 24.9 | 0.3 | 0 | 2 | 1008 | 1007 | -1 | NM | 25/04/2021 09:17 | 7.84 | 1025 | 12.2 |
| 27/04/2021 18:14 | 56.3 | 25.0 | 0.3 | 0 | 2 | 1007 | 1006 | -1 | NM | 25/04/2021 10:17 | 7.77 | 1025 | 13.5 |
| 27/04/2021 19:44 | 56.3 | 25.1 | 0.3 | 0 | 2 | 1006 | 1006 | 0 | NM | 25/04/2021 11:17 | 7.75 | 1025 | 14.7 |
| 27/04/2021 21:14 | 56.8 | 25.4 | 0.3 | 0 | 2 | 1006 | 1006 | 0 | NM | 25/04/2021 12:17 | 7.77 | 1025 | 15.4 |
| 27/04/2021 22:44 | 56.7 | 25.1 | 0.3 | 0 | 2 | 1006 | 1006 | 0 | NM | 25/04/2021 13:17 | 7.82 | 1024 | 16.3 |
| 28/04/2021 00:14 | 56.7 | 25.3 | 0.3 | 0 | 2 | 1006 | 1006 | 0 | NM | 25/04/2021 14:17 | 7.90 | 1024 | 16.5 |
| 28/04/2021 01:44 | 57.0 | 25.4 | 0.3 | 0 | 2 | 1006 | 1005 | -1 | NM | 25/04/2021 15:17 | 7.96 | 1023 | 16.6 |
| 28/04/2021 03:14 | 56.7 | 25.4 | 0.3 | 0 | 2 | 1005 | 1005 | 0 | NM | 25/04/2021 16:17 | 7.99 | 1022 | 16.6 |
| 28/04/2021 04:44 | 57.2 | 25.1 | 0.3 | 0 | 2 | 1004 | 1004 | 0 | NM | 25/04/2021 17:17 | 8.01 | 1022 | 15.7 |
| 28/04/2021 06:14 | 57.2 | 25.0 | 0.3 | 0 | 2 | 1004 | 1004 | 0 | NM | 25/04/2021 18:17 | 8.01 | 1022 | 14.4 |
| 28/04/2021 07:44 | 56.9 | 24.9 | 0.3 | 0 | 2 | 1003 | 1003 | 0 | NM | 25/04/2021 19:17 | 8.00 | 1022 | 11.8 |
| 28/04/2021 09:14 | 57.2 | 25.2 | 0.3 | 0 | 2 | 1004 | 1003 | -1 | NM | 25/04/2021 20:17 | 7.97 | 1023 | 10.1 |
| 28/04/2021 10:44 | 56.8 | 25.1 | 0.3 | 0 | 2 | 1004 | 1004 | 0 | NM | 25/04/2021 21:17 | 7.90 | 1023 | 8.7 |
| 28/04/2021 12:14 | 56.8 | 25.1 | 0.3 | 0 | 2 | 1004 | 1003 | -1 | NM | 25/04/2021 22:17 | 7.81 | 1022 | 7.6 |
| 28/04/2021 13:44 | 56.7 | 25.1 | 0.3 | 0 | 2 | 1004 | 1004 | 0 | NM | 25/04/2021 23:17 | 7.75 | 1022 | 6.7 |
| 28/04/2021 15:14 | 57.3 | 25.5 | 0.3 | 0 | 2 | 1004 | 1004 | 0 | NM | 26/04/2021 00:17 | 7.75 | 1022 | 6.0 |
| 28/04/2021 16:44 | 57.1 | 25.4 | 0.3 | 0 | 2 | 1004 | 1004 | 0 | NM | 26/04/2021 01:17 | 7.78 | 1022 | 5.4 |
| 28/04/2021 18:14 | 56.8 | 25.4 | 0.3 | 0 | 2 | 1005 | 1005 | 0 | NM | 26/04/2021 02:17 | 7.86 | 1021 | 4.9 |
| 28/04/2021 19:44 | 57.3 | 25.4 | 0.3 | 0 | 2 | 1006 | 1006 | 0 | NM | 26/04/2021 03:17 | 7.94 | 1021 | 4.5 |
| 28/04/2021 21:14 | 56.9 | 25.4 | 0.3 | 0 | 2 | 1007 | 1006 | -1 | NM | 26/04/2021 04:17 | 7.99 | 1021 | 4.2 |
| 28/04/2021 22:44 | 57.7 | 25.4 | 0.3 | 0 | 2 | 1007 | 1007 | 0 | NM | 26/04/2021 05:17 | 8.01 | 1020 | 4.0 |
| 29/04/2021 00:14 | 57.7 | 25.4 | 0.3 | 0 | 2 | 1008 | 1007 | -1 | NM | 26/04/2021 06:17 | 8.02 | 1020 | 6.0 |
| 29/04/2021 01:44 | 57.5 | 25.5 | 0.3 | 0 | 2 | 1008 | 1008 | 0 | NM | 26/04/2021 07:17 | 8.02 | 1020 | 7.9 |
| 29/04/2021 03:14 | 58.0 | 25.6 | 0.3 | 0 | 2 | 1008 | 1008 | 0 | NM | 26/04/2021 08:17 | 8.01 | 1020 | 8.9 |
| 29/04/2021 04:44 | 58.2 | 25.7 | 0.3 | 0 | 2 | 1008 | 1008 | 0 | NM | 26/04/2021 09:17 | 7.95 | 1020 | 10.8 |
| 29/04/2021 06:14 | 58.3 | 25.7 | 0.3 | 0 | 2 | 1009 | 1009 | 0 | NM | 26/04/2021 10:17 | 7.86 | 1019 | 12.3 |
| 29/04/2021 07:44 | 58.2 | 25.4 | 0.3 | 0 | 2 | 1010 | 1010 | 0 | NM | 26/04/2021 11:17 | 7.79 | 1018 | 13.7 |
| 29/04/2021 09:14 | 57.8 | 25.4 | 0.3 | 0 | 2 | 1011 | 1010 | -1 | NM | 26/04/2021 12:17 | 7.79 | 1017 | 15.0 |
| 29/04/2021 10:44 | 58.5 | 25.9 | 0.3 | 0 | 2 | 1011 | 1011 | 0 | NM | 26/04/2021 13:17 | 7.81 | 1017 | 16.0 |
| 29/04/2021 14:02 | 59.4 | 25.0 | 0.3 | 1 | 3 | NM | 1009 | N/A | 1.09 | 26/04/2021 14:17 | 7.89 | 1015 | 16.9 |
| 29/04/2021 15:02 | 59.3 | 24.9 | 0.3 | 1 | 3 | NM | 1009 | N/A | 1.00 | 26/04/2021 15:17 | 7.98 | 1015 | 17.3 |
| 29/04/2021 16:02 | 59.1 | 24.8 | 0.4 | 1 | 3 | NM | 1010 | N/A | 0.62 | 26/04/2021 16:17 | 8.04 | 1014 | 17.3 |
| 29/04/2021 17:02 | 59.5 | 25.0 | 0.5 | 1 | 3 | NM | 1010 | N/A | 0.77 | 26/04/2021 17:17 | 8.07 | 1014 | 16.6 |
| 29/04/2021 18:02 | 59.1 | 24.8 | 0.5 | 1 | 3 | NM | 1010 | N/A | 0.69 | 26/04/2021 18:17 | 8.08 | 1013 | 15.1 |
| 29/04/2021 19:02 | 59.2 | 24.9 | 0.5 | 1 | 3 | NM | 1010 | N/A | 0.58 | 26/04/2021 19:17 | 8.08 | 1013 | 12.3 |
| 29/04/2021 20:02 | 59.4 | 24.3 | 0.5 | 1 | 3 | NM | 1010 | N/A | 0.52 | 26/04/2021 20:17 | 8.07 | 1013 | 10.3 |
| 29/04/2021 21:02 | 59.6 | 24.0 | 0.4 | 1 | 3 | NM | 1011 | N/A | 0.59 | 26/04/2021 21:17 | 8.02 | 1013 | 9.1 |
| 29/04/2021 22:02 | 59.9 | 24.3 | 0.4 | 1 | 3 | NM | 1011 | N/A | 0.71 | 26/04/2021 22:17 | 7.92 | 1013 | 8.1 |
| 29/04/2021 23:02 | 60.0 | 24.4 | 0.4 | 1 | 3 | NM | 1011 | N/A | 0.56 | 26/04/2021 23:17 | 7.81 | 1013 | 7.0 |
| 30/04/2021 00:02 | 60.6 | 24.5 | 0.4 | 1 | 3 | NM | 1011 | N/A | 0.91 | 27/04/2021 00:17 | 7.78 | 1012 | 6.1 |
| 30/04/2021 01:02 | 60.7 | 24.1 | 0.3 | 1 | 3 | NM | 1011 | N/A | 0.91 | 27/04/2021 01:17 | 7.79 | 1012 | 5.3 |
| 30/04/2021 02:02 | 61.0 | 24.4 | 0.3 | 1 | 3 | NM | 1011 | N/A | 0.88 | 27/04/2021 02:17 | 7.85 | 1011 | 4.5 |
| 30/04/2021 03:02 | 60.9 | 24.0 | 0.3 | 1 | 3 | NM | 1011 | N/A | 0.76 | 27/04/2021 03:17 | 7.95 | 1011 | 4.0 |
| 30/04/2021 04:02 | 61.3 | 24.3 | 0.3 | 1 | 3 | NM | 1011 | N/A | 0.92 | 27/04/2021 04:17 | 8.03 | 1010 | 3.7 |
| 30/04/2021 05:02 | 61.1 | 24.1 | 0.3 | 1 | 3 | NM | 1012 | N/A | 0.48 | 27/04/2021 05:17 | 8.08 | 1010 | 3.5 |
| 30/04/2021 06:02 | 61.0 | 24.0 | 0.3 | 1 | 3 | NM | 1012 | N/A | 0.57 | 27/04/2021 06:17 | 8.10 | 1010 | 5.9 |
| 30/04/2021 07:02 | 61.2 | 24.1 | 0.4 | 1 | 3 | NM | 1012 | N/A | 0.64 | 27/04/2021 07:17 | 8.11 | 1009 | 8.6 |
| 30/04/2021 08:02 | 60.9 | 24.4 | 0.4 | 1 | 3 | NM | 1012 | N/A | 0.93 | 27/04/2021 08:17 | 8.12 | 1009 | 11.0 |
| 30/04/2021 09:02 | 60.5 | 24.3 | 0.4 | 1 | 3 | NM | 1012 | N/A | 0.89 | 27/04/2021 09:17 | 8.08 | 1009 | 13.2 |
| 30/04/2021 10:02 | 60.2 | 24.5 | 0.5 | 1 | 3 | NM | 1012 | N/A | 0.84 | 27/04/2021 10:17 | 7.99 | 1008 | 14.8 |
| 30/04/2021 11:02 | 60.0 | 24.4 | 0.5 | 1 | 3 | NM | 1012 | N/A | 0.63 | 27/04/2021 11:17 | 7.88 | 1007 | 15.4 |
| 30/04/2021 12:02 | 60.3 | 24.4 | 0.5 | 1 | 3 | NM | 1012 | N/A | 0.83 | 27/04/2021 12:17 | 7.82 | 1007 | 15.9 |
| 30/04/2021 13:02 | 60.3 | 24.7 | 0.5 | 1 | 3 | NM | 1012 | N/A | 0.78 | 27/04/2021 13:17 | 7.83 | 1006 | 16.4 |
| 30/04/2021 14:02 | 60.2 | 24.2 | 0.5 | 1 | 3 | NM | 1012 | N/A | 1.61 | 27/04/2021 14:17 | 7.86 | 1006 | 16.5 |
| 30/04/2021 15:02 | 60.5 | 24.4 | 0.5 | 1 | 3 | NM | 1012 | N/A | 1.46 | 27/04/2021 15:17 | 7.96 | 1005 | 16.3 |
| 30/04/2021 16:02 | 60.5 | 24.4 | 0.4 | 1 | 3 | NM | 1012 | N/A | 0.99 | 27/04/2021 16:17 | 8.05 | 1005 | 15.6 |
| 30/04/2021 17:02 | 60.8 | 24.7 | 0.5 | 1 | 3 | NM | 1012 | N/A | 0.72 | 27/04/2021 17:17 | 8.11 | 1004 | 14.5 |
| 30/04/2021 18:02 | 60.5 | 24.3 | 0.5 | 1 | 3 | NM | 1012 | N/A | 0.67 | 27/04/2021 18:17 | 8.14 | 1004 | 13.6 |
| 30/04/2021 19:02 | 61.0 | 24.2 | 0.5 | 1 | 3 | NM | 1012 | N/A | 0.98 | 27/04/2021 19:17 | 8.15 | 1004 | 11.7 |
| 30/04/2021 20:02 | 61.1 | 24.3 | 0.4 | 1 | 3 | NM | 1013 | N/A | 0.68 | 27/04/2021 20:17 | 8.16 | 1004 | 10.4 |
| 30/04/2021 21:02 | 61.3 | 24.1 | 0.4 | 1 | 3 | NM | 1013 | N/A | 0.69 | 27/04/2021 21:17 | 8.14 | 1004 | 9.8 |
| 30/04/2021 22:02 | 61.2 | 23.7 | 0.4 | 1 | 3 | NM | 1013 | N/A | 0.75 | 27/04/2021 22:17 | 8.06 | 1004 | 9.2 |
| 30/04/2021 23:02 | 61.7 | 24.0 | 0.3 | 1 | 3 | NM | 1013 | N/A | 0.80 | 27/04/2021 23:17 | 7.93 | 1004 | 8.8 |
| 01/05/2021 00:02 | 61.7 | 23.9 | 0.3 | 1 | 3 | NM | 1013 | N/A | 1.12 | 28/04/2021 00:17 | 7.83 | 1003 | 8.8 |
| 01/05/2021 01:02 | 61.8 | 24.0 | 0.3 | 1 | 3 | NM | 1013 | N/A | 1.14 | 28/04/2021 01:17 | 7.82 | 1003 | 8.9 |
| 01/05/2021 02:02 | 62.0 | 23.9 | 0.2 | 1 | 3 | NM | 1012 | N/A | 1.03 | 28/04/2021 02:17 | 7.84 | 1002 | 8.6 |
| 01/05/2021 03:02 | 62.4 | 24.2 | 0.2 | 1 | 3 | NM | 1012 | N/A | 0.87 | 28/04/2021 03:17 | 7.92 | 1002 | 8.3 |
| 01/05/2021 04:02 | 62.8 | 24.2 | 0.2 | 1 | 3 | NM | 1012 | N/A | 1.00 | 28/04/2021 04:17 | 8.03 | 1002 | 8.2 |
| 01/05/2021 05:02 | 62.5 | 23.7 | 0.2 | 1 | 3 | NM | 1013 | N/A | 0.70 | 28/04/2021 05:17 | 8.11 | 1001 | 7.9 |
| 01/05/2021 06:02 | 62.3 | 23.9 | 0.2 | 1 | 3 | NM | 1013 | N/A | 0.43 | 28/04/2021 06:17 | 8.15 | 1001 | 8.2 |
| 01/05/2021 07:02 | 62.4 | 24.2 | 0.3 | 1 | 3 | NM | 1014 | N/A | 0.61 | 28/04/2021 07:17 | 8.17 | 1001 | 8.7 |
| 01/05/2021 08:02 | 62.2 | 24.7 | 0.3 | 1 | 3 | NM | 1014 | N/A | 0.97 | 28/04/2021 08:17 | 8.17 | 1001 | 10.1 |
| 01/05/2021 09:02 | 61.6 | 24.7 | 0.3 | 1 | 3 | NM | 1013 | N/A | 0.77 | 28/04/2021 09:17 | 8.17 | 1001 | 12.3 |
| 01/05/2021 10:02 | 61.4 | 24.8 | 0.3 | 1 | 3 | NM | 1013 | N/A | 0.86 | 28/04/2021 10:17 | 8.12 | 1002 | 13.4 |
| 01/05/2021 11:02 | 60.9 | 24.6 | 0.4 | 1 | 3 | NM | 1013 | N/A | 0.84 | 28/04/2021 11:17 | 8.00 | 1002 | 12.3 |
| 01/05/2021 12:02 | 61.1 | 24.8 | 0.5 | 1 | 3 | NM | 1013 | N/A | 0.69 | 28/04/2021 12:17 | 7.89 | 1002 | 11.0 |
| 01/05/2021 13:02 | 61.0 | 25.0 | 0.4 | 1 | 3 | NM | 1014 | N/A | 0.51 | 28/04/2021 13:17 | 7.85 | 1002 | 11.3 |
| 01/05/2021 14:02 | 61.1 | 24.3 | 0.4 | 1 | 3 | NM | 1013 | N/A | 1.09 | 28/04/2021 14:17 | 7.85 | 1002 | 11.6 |
| 01/05/2021 15:02 | 61.4 | 24.8 | 0.4 | 1 | 3 | NM | 1014 | N/A | 0.48 | 28/04/2021 15:17 | 7.90 | 1003 | 14.1 |
| 01/05/2021 16:02 | 61.0 | 24.8 | 0.5 | 1 | 3 | NM | 1014 | N/A | 0.80 | 28/04/2021 16:17 | 8.00 | 1003 | 13.0 |
| 01/05/2021 17:02 | 61.2 | 24.1 | 0.4 | 1 | 3 | NM | 1014 | N/A | 0.71 | 28/04/2021 17:17 | 8.09 | 1003 | 10.4 |
| 01/05/2021 18:02 | 61.6 | 24.8 | 0.4 | 1 | 3 | NM | 1014 | N/A | 0.72 | 28/04/2021 18:17 | 8.13 | 1003 | 9.5 |
| 01/05/2021 19:02 | 61.3 | 24.2 | 0.4 | 1 | 3 | NM | 1015 | N/A | 0.34 | 28/04/2021 19:17 | 8.15 | 1004 | 8.9 |
| 01/05/2021 20:02 | 61.9 | 24.9 | 0.4 | 1 | 3 | NM | 1015 | N/A | 0.69 | 28/04/2021 20:17 | 8.16 | 1004 | 8.5 |
| 01/05/2021 21:02 | 61.8 | 24.2 | 0.4 | 1 | 3 | NM | 1015 | N/A | 0.96 | 28/04/2021 21:17 | 8.16 | 1005 | 8.0 |
| 01/05/2021 22:02 | 62.3 | 24.6 | 0.4 | 1 | 3 | NM | 1015 | N/A | 0.87 | 28/04/2021 22:17 | 8.12 | 1005 | 7.9 |
| 01/05/2021 23:02 | 62.2 | 24.4 | 0.3 | 1 | 3 | NM | 1016 | N/A | 0.50 | 28/04/2021 23:17 | 8.03 | 1005 | 7.8 |
| 02/05/2021 00:02 | 62.4 | 24.5 | 0.3 | 1 | 3 | NM | 1016 | N/A | 1.01 | 29/04/2021 00:17 | 7.90 | 1005 | 7.3 |
| 02/05/2021 01:02 | 62.5 | 24.4 | 0.3 | 1 | 3 | NM | 1016 | N/A | 0.75 | 29/04/2021 01:17 | 7.82 | 1006 | 6.7 |
| 02/05/2021 02:02 | 62.7 | 24.2 | 0.3 | 1 | 3 | NM | 1016 | N/A | 0.58 | 29/04/2021 02:17 | 7.81 | 1006 | 6.3 |
| 02/05/2021 03:02 | 63.2 | 24.7 | 0.2 | 1 | 3 | NM | 1016 | N/A | 0.72 | 29/04/2021 03:17 | 7.83 | 1006 | 6.6 |
| 02/05/2021 04:02 | 63.2 | 24.3 | 0.2 | 1 | 3 | NM | 1017 | N/A | 0.72 | 29/04/2021 04:17 | 7.93 | 1006 | 6.1 |
| 02/05/2021 05:02 | 63.2 | 24.3 | 0.2 | 1 | 2 | NM | 1017 | N/A | 0.34 | 29/04/2021 05:17 | 8.03 | 1007 | 5.4 |
| 02/05/2021 06:02 | 62.7 | 24.1 | 0.3 | 1 | 3 | NM | 1018 | N/A | 0.47 | 29/04/2021 06:17 | 8.09 | 1008 | 6.6 |
| 02/05/2021 07:02 | 63.0 | 24.3 | 0.3 | 1 | 3 | NM | 1018 | N/A | 0.34 | 29/04/2021 07:17 | 8.12 | 1008 | 8.6 |
| 02/05/2021 08:02 | 62.8 | 24.5 | 0.3 | 1 | 3 | NM | 1019 | N/A | 0.96 | 29/04/2021 08:17 | 8.13 | 1009 | 10.6 |
| 02/05/2021 09:02 | 62.4 | 24.8 | 0.4 | 1 | 3 | NM | 1019 | N/A | 0.75 | 29/04/2021 09:17 | 8.13 | 1009 | 11.0 |
| 02/05/2021 10:02 | 61.9 | 24.7 | 0.4 | 1 | 3 | NM | 1018 | N/A | 0.87 | 29/04/2021 10:17 | | 1009 | 12.8 |
| 02/05/2021 11:02 | 61.9 | 25.1 | 0.4 | 1 | 3 | NM | 1018 | N/A | 0.59 | 29/04/2021 11:17 | | 1009 | 13.1 |
| 02/05/2021 12:02 | 61.4 | 24.9 | 0.5 | 1 | 3 | NM | 1018 | N/A | 0.60 | 29/04/2021 12:17 | | 1009 | 15.1 |
| 02/05/2021 13:02 | 61.5 | 24.9 | 0.5 | 1 | 3 | NM | 1018 | N/A | 0.54 | 29/04/2021 13:17 | | 1009 | 14.8 |
| 02/05/2021 14:02 | 61.7 | 25.2 | 0.4 | 1 | 3 | NM | 1018 | N/A | 0.70 | 29/04/2021 14:17 | | 1009 | 14.8 |
| 02/05/2021 15:02 | 61.7 | 24.9 | 0.4 | 1 | 3 | NM | 1018 | N/A | 0.77 | 29/04/2021 15:17 | | 1009 | 16.8 |
| 02/05/2021 16:02 | 61.7 | 24.9 | 0.4 | 1 | 3 | NM | 1018 | N/A | 0.62 | 29/04/2021 16:17 | | 1010 | 15.2 |
| 02/05/2021 17:02 | 61.8 | 24.5 | 0.4 | 1 | 3 | NM | 1018 | N/A | 0.72 | 29/04/2021 17:17 | | 1010 | 12.9 |
| 02/05/2021 18:02 | 62.3 | 24.8 | 0.4 | 1 | 2 | NM | 1018 | N/A | 0.30 | 29/04/2021 18:17 | | 1010 | 12.6 |
| 02/05/2021 19:02 | 62.3 | 24.7 | 0.4 | 1 | 3 | NM | 1018 | N/A | 0.26 | 29/04/2021 19:17 | | 1010 | 8.8 |
| 02/05/2021 20:02 | 62.5 | 24.4 | 0.4 | 1 | 2 | NM | 1019 | N/A | 0.46 | 29/04/2021 20:17 | | 1010 | 6.3 |
| 02/05/2021 21:02 | 62.3 | 24.1 | 0.3 | 1 | 3 | NM | 1019 | N/A | 0.84 | 29/04/2021 21:17 | | 1011 | 4.9 |
| 02/05/2021 22:02 | 62.7 | 24.4 | 0.3 | 1 | 3 | NM | 1019 | N/A | 0.76 | 29/04/2021 22:17 | | 1011 | 4.1 |
| 02/05/2021 23:02 | 62.6 | 24.2 | 0.3 | 1 | 3 | NM | 1019 | N/A | 1.01 | 29/04/2021 23:17 | | 1011 | 3.4 |
| 03/05/2021 00:02 | 62.9 | 24.3 | 0.2 | 1 | 3 | NM | 1019 | N/A | 1.05 | 30/04/2021 00:17 | | 1011 | 3.0 |
| 03/05/2021 01:02 | 62.7 | 24.1 | 0.2 | 1 | 3 | NM | 1019 | N/A | 0.80 | 30/04/2021 01:17 | | 1011 | 2.6 |
| 03/05/2021 02:02 | 63.3 | 24.4 | 0.2 | 1 | 3 | NM | 1018 | N/A | 1.05 | 30/04/2021 02:17 | | 1011 | 2.8 |
| 03/05/2021 03:02 | 63.6 | 24.5 | 0.1 | 1 | 3 | NM | 1018 | N/A | 1.42 | 30/04/2021 03:17 | | 1011 | 3.1 |
| 03/05/2021 04:02 | 63.5 | 24.3 | 0.1 | 1 | 2 | NM | 1017 | N/A | 1.20 | 30/04/2021 04:17 | | 1011 | 3.2 |
| 03/05/2021 05:02 | 63.6 | 24.4 | 0.1 | 1 | 2 | NM | 1017 | N/A | 0.78 | 30/04/2021 05:17 | | 1012 | 3.7 |
| 03/05/2021 06:02 | 63.9 | 24.3 | 0.1 | 1 | 2 | NM | 1017 | N/A | 1.40 | 30/04/2021 06:17 | | 1012 | 5.0 |
| 03/05/2021 07:02 | 63.6 | 24.4 | 0.2 | 1 | 2 | NM | 1017 | N/A | 1.12 | 30/04/2021 07:17 | | 1012 | 8.2 |
| 03/05/2021 08:02 | 63.0 | 24.2 | 0.2 | 1 | 2 | NM | 1017 | N/A | 0.78 | 30/04/2021 08:17 | | 1012 | 11.1 |
| 03/05/2021 09:02 | 62.7 | 25.0 | 0.2 | 1 | 2 | NM | 1016 | N/A | 0.61 | 30/04/2021 09:17 | | 1012 | 16.0 |

| Date and Time | $CH_4$ % v/v | $CO_2$ % v/v | $O_2$ % v/v | $H_2S$ ppm/v | CO ppm/v | Borehole Pressure mbar | Atmospheric Pressure mbar | Differential Pressure mbar | Flow Ltr/hr | | Water Level mbgl | Atmospheric Pressure mbar | Temperature °C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 03/05/2021 10:02 | 62.6 | 25.1 | 0.3 | 1 | 2 | NM | 1015 | N/A | 0.41 | 30/04/2021 10:17 | | 1012 | 15.3 |
| 03/05/2021 11:02 | 61.8 | 25.1 | 0.3 | 1 | 2 | NM | 1014 | N/A | 0.17 | 30/04/2021 11:17 | | 1012 | 13.3 |
| 03/05/2021 12:02 | 61.3 | 25.1 | 0.4 | 1 | 2 | NM | 1013 | N/A | 0.43 | 30/04/2021 12:17 | | 1012 | 15.3 |
| 03/05/2021 13:02 | 61.0 | 25.1 | 0.4 | 1 | 2 | NM | 1011 | N/A | 0.81 | 30/04/2021 13:17 | | 1012 | 19.7 |
| 03/05/2021 14:02 | 61.0 | 25.0 | 0.4 | 1 | 2 | NM | 1010 | N/A | 0.76 | 30/04/2021 14:17 | | 1012 | 13.0 |
| 03/05/2021 15:02 | 61.5 | 25.1 | 0.3 | 1 | 2 | NM | 1008 | N/A | 0.26 | 30/04/2021 15:17 | | 1012 | 15.0 |
| 03/05/2021 16:02 | 61.4 | 25.1 | 0.3 | 1 | 2 | NM | 1006 | N/A | 0.92 | 30/04/2021 16:17 | | 1012 | 18.1 |
| 03/05/2021 17:02 | 61.2 | 24.5 | 0.2 | 1 | 2 | NM | 1004 | N/A | 1.49 | 30/04/2021 17:17 | | 1012 | 14.8 |
| 03/05/2021 18:02 | 61.5 | 25.3 | 0.2 | 1 | 2 | NM | 1003 | N/A | 0.89 | 30/04/2021 18:17 | | 1012 | 12.0 |
| 03/05/2021 19:02 | 61.2 | 24.7 | 0.2 | 1 | 2 | NM | 1000 | N/A | 1.67 | 30/04/2021 19:17 | | 1012 | 8.8 |
| 03/05/2021 20:02 | 60.7 | 24.5 | 0.3 | 0 | 2 | NM | 999 | N/A | 0.18 | 30/04/2021 20:17 | | 1013 | 6.4 |
| 03/05/2021 21:02 | 60.1 | 24.6 | 0.4 | 1 | 2 | NM | 997 | N/A | 0.01 | 30/04/2021 21:17 | | 1013 | 4.9 |
| 03/05/2021 22:02 | 59.9 | 24.6 | 0.5 | 1 | 2 | NM | 996 | N/A | -0.19 | 30/04/2021 22:17 | | 1013 | 4.0 |
| 03/05/2021 23:02 | 59.6 | 24.5 | 0.5 | 1 | 3 | NM | 996 | N/A | 0.61 | 30/04/2021 23:17 | | 1013 | 3.2 |
| 04/05/2021 00:02 | 59.5 | 24.8 | 0.5 | 1 | 3 | NM | 995 | N/A | 1.51 | 01/05/2021 00:17 | | 1013 | 2.5 |
| 04/05/2021 01:02 | 59.8 | 24.7 | 0.4 | 1 | 3 | NM | 994 | N/A | 0.56 | 01/05/2021 01:17 | | 1013 | 1.8 |
| 04/05/2021 02:02 | 60.0 | 24.8 | 0.4 | 1 | 3 | NM | 994 | N/A | 0.58 | 01/05/2021 02:17 | | 1012 | 1.1 |
| 04/05/2021 03:02 | 59.5 | 24.4 | 0.4 | 1 | 3 | NM | 995 | N/A | 0.24 | 01/05/2021 03:17 | | 1012 | 0.7 |
| 04/05/2021 04:02 | 60.2 | 24.8 | 0.3 | 1 | 3 | NM | 994 | N/A | 0.62 | 01/05/2021 04:17 | | 1012 | 0.3 |
| 04/05/2021 05:02 | 59.1 | 24.6 | 0.7 | 1 | 4 | NM | 996 | N/A | 0.04 | 01/05/2021 05:17 | | 1013 | 0.7 |
| 04/05/2021 06:02 | 58.6 | 24.5 | 0.8 | 1 | 4 | NM | 997 | N/A | 0.10 | 01/05/2021 06:17 | | 1013 | 2.4 |
| 04/05/2021 07:02 | 59.1 | 25.0 | 0.8 | 1 | 4 | NM | 998 | N/A | 0.03 | 01/05/2021 07:17 | | 1014 | 7.2 |
| 04/05/2021 08:02 | 58.7 | 24.5 | 0.8 | 1 | 3 | NM | 999 | N/A | 1.00 | 01/05/2021 08:17 | | 1014 | 11.3 |
| 04/05/2021 09:02 | 58.0 | 24.7 | 1.0 | 1 | 3 | NM | 1000 | N/A | -0.05 | 01/05/2021 09:17 | | 1013 | 15.8 |
| 04/05/2021 10:02 | 58.0 | 24.9 | 1.1 | 1 | 5 | NM | 1000 | N/A | 0.55 | 01/05/2021 10:17 | | 1013 | 17.7 |
| 04/05/2021 11:02 | 58.0 | 24.9 | 1.0 | 1 | 4 | NM | 1001 | N/A | 0.57 | 01/05/2021 11:17 | | 1013 | 12.7 |
| 04/05/2021 12:02 | 57.5 | 24.8 | 1.3 | 1 | 4 | NM | 1001 | N/A | 0.47 | 01/05/2021 12:17 | | 1013 | 11.3 |
| 04/05/2021 13:02 | 58.0 | 24.9 | 1.1 | 0 | 4 | NM | 1001 | N/A | -0.35 | 01/05/2021 13:17 | | 1014 | 10.4 |
| 04/05/2021 14:02 | 58.2 | 25.3 | 1.0 | 1 | 4 | NM | 1001 | N/A | 0.74 | 01/05/2021 14:17 | | 1013 | 11.8 |
| 04/05/2021 15:02 | 59.0 | 25.0 | 0.8 | 1 | 4 | NM | 1001 | N/A | 0.37 | 01/05/2021 15:17 | | 1014 | 13.6 |
| 04/05/2021 16:02 | 58.7 | 25.0 | 0.9 | 1 | 5 | NM | 1002 | N/A | 0.59 | 01/05/2021 16:17 | | 1014 | 11.9 |
| 04/05/2021 17:02 | 59.8 | 25.3 | 0.8 | 1 | 4 | NM | 1002 | N/A | 0.82 | 01/05/2021 17:17 | | 1014 | 10.5 |
| 04/05/2021 18:02 | 59.8 | 24.9 | 0.7 | 1 | 3 | NM | 1002 | N/A | 0.84 | 01/05/2021 18:17 | | 1014 | 11.5 |
| 04/05/2021 19:02 | 60.2 | 25.0 | 0.7 | 1 | 3 | NM | 1003 | N/A | 0.80 | 01/05/2021 19:17 | | 1015 | 9.1 |
| 04/05/2021 20:02 | 60.2 | 24.7 | 0.7 | 1 | 3 | NM | 1004 | N/A | 0.12 | 01/05/2021 20:17 | | 1015 | 6.9 |
| 04/05/2021 21:02 | 60.8 | 24.7 | 0.6 | 1 | 3 | NM | 1004 | N/A | 0.63 | 01/05/2021 21:17 | | 1015 | 6.4 |
| 04/05/2021 22:02 | 61.1 | 24.8 | 0.5 | 1 | 3 | NM | 1004 | N/A | 0.57 | 01/05/2021 22:17 | | 1015 | 6.1 |
| 04/05/2021 23:02 | 61.4 | 24.6 | 0.5 | 1 | 3 | NM | 1004 | N/A | 0.61 | 01/05/2021 23:17 | | 1016 | 4.7 |
| 05/05/2021 00:02 | 61.7 | 24.8 | 0.4 | 1 | 3 | NM | 1004 | N/A | 1.26 | 02/05/2021 00:17 | | 1016 | 3.4 |
| 05/05/2021 01:02 | 61.7 | 24.8 | 0.3 | 1 | 3 | NM | 1004 | N/A | 0.42 | 02/05/2021 01:17 | | 1016 | 2.5 |
| 05/05/2021 02:02 | 61.5 | 24.1 | 0.3 | 1 | 3 | NM | 1004 | N/A | 0.81 | 02/05/2021 02:17 | | 1016 | 1.8 |
| 05/05/2021 03:02 | 61.9 | 24.8 | 0.2 | 1 | 3 | NM | 1004 | N/A | 0.41 | 02/05/2021 03:17 | | 1016 | 1.2 |
| 05/05/2021 04:02 | 62.3 | 24.7 | 0.2 | 1 | 3 | NM | 1005 | N/A | 0.50 | 02/05/2021 04:17 | | 1017 | 1.1 |
| 05/05/2021 05:02 | 62.0 | 24.4 | 0.2 | 1 | 3 | NM | 1006 | N/A | 0.36 | 02/05/2021 05:17 | | 1017 | 1.5 |
| 05/05/2021 06:02 | 62.5 | 24.7 | 0.2 | 1 | 3 | NM | 1007 | N/A | 0.60 | 02/05/2021 06:17 | | 1018 | 3.2 |
| 05/05/2021 07:02 | 62.0 | 24.7 | 0.2 | 1 | 3 | NM | 1007 | N/A | 0.48 | 02/05/2021 07:17 | | 1018 | 6.5 |
| 05/05/2021 08:02 | 62.2 | 24.8 | 0.2 | 1 | 3 | NM | 1007 | N/A | 0.47 | 02/05/2021 08:17 | | 1019 | 10.9 |
| 05/05/2021 09:02 | 61.9 | 25.1 | 0.2 | 1 | 3 | NM | 1007 | N/A | 0.49 | 02/05/2021 09:17 | | 1019 | 15.0 |
| 05/05/2021 10:02 | 61.7 | 25.2 | 0.2 | 1 | 3 | NM | 1008 | N/A | 0.61 | 02/05/2021 10:17 | | 1018 | 18.6 |
| 05/05/2021 11:02 | 61.9 | 24.8 | 0.2 | 0 | 3 | NM | 1008 | N/A | 0.63 | 02/05/2021 11:17 | | 1018 | 18.9 |
| 05/05/2021 12:02 | 61.7 | 24.8 | 0.3 | 1 | 3 | NM | 1008 | N/A | 1.09 | 02/05/2021 12:17 | | 1018 | 15.6 |
| 05/05/2021 13:02 | 61.4 | 24.7 | 0.3 | 1 | 3 | NM | 1008 | N/A | 0.73 | 02/05/2021 13:17 | | 1018 | 15.4 |
| 05/05/2021 14:02 | 61.1 | 24.4 | 0.5 | 0 | 2 | NM | 1008 | N/A | 1.14 | 02/05/2021 14:17 | | 1018 | 17.5 |
| 05/05/2021 15:02 | 61.6 | 24.9 | 0.3 | 0 | 3 | NM | 1008 | N/A | 0.48 | 02/05/2021 15:17 | | 1018 | 19.8 |
| 05/05/2021 16:02 | 61.5 | 24.6 | 0.3 | 1 | 3 | NM | 1007 | N/A | 0.43 | 02/05/2021 16:17 | | 1018 | 16.7 |
| 05/05/2021 17:02 | 61.4 | 24.7 | 0.4 | 1 | 4 | NM | 1008 | N/A | 2.55 | 02/05/2021 17:17 | | 1018 | 14.1 |
| 05/05/2021 18:02 | 62.0 | 24.7 | 0.3 | 1 | 3 | NM | 1008 | N/A | 1.30 | 02/05/2021 18:17 | | 1018 | 12.5 |
| 05/05/2021 19:02 | 62.3 | 24.4 | 0.3 | 1 | 3 | NM | 1008 | N/A | 0.89 | 02/05/2021 19:17 | | 1018 | 10.0 |
| 05/05/2021 20:02 | 62.6 | 24.7 | 0.2 | 1 | 3 | NM | 1008 | N/A | 0.65 | 02/05/2021 20:17 | | 1019 | 7.5 |
| 05/05/2021 21:02 | 62.7 | 24.5 | 0.2 | 1 | 3 | NM | 1008 | N/A | 0.52 | 02/05/2021 21:17 | | 1019 | 7.9 |
| 05/05/2021 22:02 | 62.9 | 24.4 | 0.1 | 1 | 3 | NM | 1007 | N/A | 1.12 | 02/05/2021 22:17 | | 1019 | 7.1 |
| 05/05/2021 23:02 | 63.3 | 24.3 | 0.1 | 1 | 2 | NM | 1007 | N/A | 1.19 | 02/05/2021 23:17 | | 1019 | 5.6 |
| 06/05/2021 00:02 | 63.3 | 24.3 | 0.1 | 1 | 2 | NM | 1007 | N/A | 1.41 | 03/05/2021 00:17 | | 1019 | 4.6 |
| 06/05/2021 01:02 | 62.9 | 23.9 | 0.1 | 1 | 2 | NM | 1006 | N/A | 1.87 | 03/05/2021 01:17 | | 1019 | 3.8 |
| 06/05/2021 02:02 | 62.9 | 24.4 | 0.0 | 1 | 2 | NM | 1005 | N/A | 1.23 | 03/05/2021 02:17 | | 1018 | 3.2 |
| 06/05/2021 03:02 | 62.9 | 24.7 | 0.0 | 1 | 2 | NM | 1005 | N/A | 1.53 | 03/05/2021 03:17 | | 1018 | 3.3 |
| 06/05/2021 04:02 | 63.1 | 24.9 | 0.0 | 1 | 2 | NM | 1004 | N/A | 1.83 | 03/05/2021 04:17 | | 1017 | 3.1 |
| 06/05/2021 05:02 | 63.3 | 24.8 | 0.0 | 1 | 2 | NM | 1004 | N/A | 1.50 | 03/05/2021 05:17 | | 1017 | 3.2 |
| 06/05/2021 06:02 | 63.3 | 24.9 | 0.0 | 1 | 2 | NM | 1004 | N/A | 1.22 | 03/05/2021 06:17 | | 1017 | 5.5 |
| 06/05/2021 07:02 | 63.0 | 25.0 | 0.1 | 1 | 2 | NM | 1004 | N/A | 1.10 | 03/05/2021 07:17 | | 1017 | 9.5 |
| 06/05/2021 08:02 | 63.2 | 25.5 | 0.1 | 1 | 2 | NM | 1003 | N/A | 1.16 | 03/05/2021 08:17 | | 1017 | 12.0 |
| 06/05/2021 09:02 | 63.0 | 25.7 | 0.1 | 1 | 2 | NM | 1003 | N/A | 0.69 | 03/05/2021 09:17 | | 1016 | 14.8 |
| 06/05/2021 10:02 | 62.4 | 25.5 | 0.1 | 0 | 2 | NM | 1003 | N/A | 0.70 | 03/05/2021 10:17 | | 1015 | 16.8 |
| 06/05/2021 11:02 | 62.4 | 25.9 | 0.1 | 0 | 2 | NM | 1003 | N/A | 0.88 | 03/05/2021 11:17 | | 1014 | 18.3 |
| 06/05/2021 12:02 | 62.2 | 25.9 | 0.1 | 1 | 2 | NM | 1003 | N/A | 0.73 | 03/05/2021 12:17 | | 1013 | 17.2 |
| 06/05/2021 13:02 | 61.9 | 26.1 | 0.1 | 1 | 2 | NM | 1003 | N/A | 1.06 | 03/05/2021 13:17 | | 1011 | 16.2 |
| 06/05/2021 14:02 | 61.9 | 26.3 | 0.1 | 0 | 2 | NM | 1003 | N/A | 0.87 | 03/05/2021 14:17 | | 1010 | 14.8 |
| 06/05/2021 15:02 | 62.1 | 26.4 | 0.1 | 0 | 2 | NM | 1003 | N/A | 0.79 | 03/05/2021 15:17 | | 1008 | 13.4 |
| 06/05/2021 16:02 | 61.6 | 25.7 | 0.1 | 1 | 1 | NM | 1004 | N/A | 1.07 | 03/05/2021 16:17 | | 1006 | 12.5 |
| 06/05/2021 17:02 | 61.9 | 25.9 | 0.1 | 0 | 1 | NM | 1005 | N/A | 0.31 | 03/05/2021 17:17 | | 1004 | 11.1 |
| 06/05/2021 18:02 | 61.7 | 25.6 | 0.2 | 1 | 1 | NM | 1005 | N/A | 0.22 | 03/05/2021 18:17 | | 1003 | 9.7 |
| 06/05/2021 19:02 | 61.9 | 26.0 | 0.2 | 1 | 1 | NM | 1006 | N/A | 0.19 | 03/05/2021 19:17 | | 1000 | 9.3 |
| 06/05/2021 20:02 | 62.2 | 25.5 | 0.3 | 1 | 2 | NM | 1007 | N/A | 0.18 | 03/05/2021 20:17 | | 999 | 9.2 |
| 06/05/2021 21:02 | 62.3 | 25.2 | 0.3 | 1 | 2 | NM | 1007 | N/A | 0.39 | 03/05/2021 21:17 | | 997 | 9.1 |
| 06/05/2021 22:02 | 62.6 | 24.9 | 0.3 | 1 | 2 | NM | 1008 | N/A | 0.26 | 03/05/2021 22:17 | | 996 | 9.4 |
| 06/05/2021 23:02 | 62.6 | 24.8 | 0.2 | 1 | 2 | NM | 1009 | N/A | 0.26 | 03/05/2021 23:17 | | 996 | 9.6 |
| 07/05/2021 00:02 | 63.3 | 25.3 | 0.2 | 1 | 2 | NM | 1009 | N/A | 0.65 | 04/05/2021 00:17 | | 995 | 9.2 |
| 07/05/2021 01:02 | 63.3 | 24.8 | 0.2 | 1 | 2 | NM | 1010 | N/A | 0.36 | 04/05/2021 01:17 | | 994 | 8.7 |
| 07/05/2021 02:02 | 63.5 | 24.8 | 0.2 | 1 | 2 | NM | 1011 | N/A | 0.40 | 04/05/2021 02:17 | | 994 | 8.3 |
| 07/05/2021 03:02 | 63.9 | 24.9 | 0.2 | 1 | 2 | NM | 1011 | N/A | 0.81 | 04/05/2021 03:17 | | 995 | 8.4 |
| 07/05/2021 04:02 | 64.0 | 24.7 | 0.2 | 1 | 2 | NM | 1012 | N/A | 0.31 | 04/05/2021 04:17 | | 994 | 8.1 |
| 07/05/2021 05:02 | 64.0 | 25.0 | 0.2 | 1 | 2 | NM | 1012 | N/A | 0.38 | 04/05/2021 05:17 | | 996 | 7.9 |
| 07/05/2021 06:02 | 63.6 | 24.2 | 0.2 | 1 | 3 | NM | 1013 | N/A | 0.60 | 04/05/2021 06:17 | | 997 | 9.4 |
| 07/05/2021 07:02 | 63.7 | 24.8 | 0.2 | 1 | 2 | NM | 1014 | N/A | 0.47 | 04/05/2021 07:17 | | 998 | 11.8 |
| 07/05/2021 08:02 | 63.1 | 25.1 | 0.2 | 0 | 2 | NM | 1014 | N/A | 0.19 | 04/05/2021 08:17 | | 999 | 14.3 |
| 07/05/2021 09:02 | 63.2 | 25.6 | 0.2 | 0 | 2 | NM | 1015 | N/A | 0.59 | 04/05/2021 09:17 | | 1000 | 14.7 |
| 07/05/2021 10:02 | 62.7 | 25.2 | 0.2 | 0 | 2 | NM | 1015 | N/A | 0.81 | 04/05/2021 10:17 | | 1000 | 16.7 |
| 07/05/2021 11:02 | 62.5 | 25.1 | 0.3 | 0 | 2 | NM | 1015 | N/A | -0.07 | 04/05/2021 11:17 | | 1001 | 18.1 |
| 07/05/2021 12:02 | 62.6 | 25.3 | 0.3 | 0 | 2 | NM | 1015 | N/A | -0.08 | 04/05/2021 12:17 | | 1001 | 16.9 |
| 07/05/2021 13:02 | 62.4 | 25.2 | 0.3 | 0 | 2 | NM | 1015 | N/A | -0.04 | 04/05/2021 13:17 | | 1001 | 18.2 |
| 07/05/2021 14:02 | 62.3 | 25.1 | 0.3 | 0 | 2 | NM | 1015 | N/A | 0.07 | 04/05/2021 14:17 | | 1001 | 20.2 |
| 07/05/2021 15:02 | 62.3 | 25.4 | 0.3 | 0 | 2 | NM | 1014 | N/A | 0.83 | 04/05/2021 15:17 | | 1001 | 20.9 |
| 07/05/2021 16:02 | 62.1 | 25.0 | 0.3 | 0 | 2 | NM | 1014 | N/A | 0.21 | 04/05/2021 16:17 | | 1002 | 18.4 |
| 07/05/2021 17:02 | 62.0 | 24.4 | 0.3 | 0 | 2 | NM | 1014 | N/A | 0.84 | 04/05/2021 17:17 | | 1002 | 16.3 |
| 07/05/2021 18:02 | 62.3 | 24.7 | 0.3 | 0 | 2 | NM | 1014 | N/A | 0.77 | 04/05/2021 18:17 | | 1002 | 13.4 |
| 07/05/2021 19:02 | 62.9 | 24.9 | 0.2 | 0 | 2 | NM | 1014 | N/A | 1.13 | 04/05/2021 19:17 | | 1003 | 10.6 |
| 07/05/2021 20:02 | 63.1 | 24.8 | 0.2 | 0 | 2 | NM | 1013 | N/A | 0.96 | 04/05/2021 20:17 | | 1004 | 7.8 |
| 07/05/2021 21:02 | 63.1 | 24.4 | 0.1 | 0 | 2 | NM | 1013 | N/A | 1.55 | 04/05/2021 21:17 | | 1004 | 6.7 |
| 07/05/2021 22:02 | 63.5 | 24.5 | 0.1 | 0 | 2 | NM | 1012 | N/A | 1.38 | 04/05/2021 22:17 | | 1004 | 6.1 |
| 07/05/2021 23:02 | 63.6 | 24.8 | 0.1 | 0 | 2 | NM | 1011 | N/A | 1.54 | 04/05/2021 23:17 | | 1004 | 5.5 |
| 08/05/2021 00:02 | 63.8 | 24.8 | 0.0 | 1 | 2 | NM | 1010 | N/A | 1.90 | 05/05/2021 00:17 | | 1004 | 4.6 |
| 08/05/2021 01:02 | 63.4 | 25.1 | 0.0 | 1 | 2 | NM | 1009 | N/A | 1.43 | 05/05/2021 01:17 | | 1004 | 3.9 |
| 08/05/2021 02:02 | 63.1 | 25.2 | 0.0 | 1 | 2 | NM | 1008 | N/A | 1.37 | 05/05/2021 02:17 | | 1004 | 3.3 |
| 08/05/2021 03:02 | 62.7 | 25.1 | 0.0 | 1 | 2 | NM | 1007 | N/A | 1.89 | 05/05/2021 03:17 | | 1004 | 3.0 |
| 08/05/2021 04:02 | 62.5 | 25.5 | 0.0 | 1 | 2 | NM | 1005 | N/A | 2.16 | 05/05/2021 04:17 | | 1005 | 2.7 |
| 08/05/2021 05:02 | 62.4 | 25.8 | 0.0 | 1 | 2 | NM | 1004 | N/A | 1.74 | 05/05/2021 05:17 | | 1006 | 3.0 |
| 08/05/2021 06:02 | 62.1 | 25.3 | 0.0 | 1 | 2 | NM | 1003 | N/A | 1.05 | 05/05/2021 06:17 | | 1007 | 7.1 |
| 08/05/2021 07:02 | 62.2 | 26.1 | 0.1 | 0 | 2 | NM | 1002 | N/A | 0.65 | 05/05/2021 07:17 | | 1007 | 10.6 |
| 08/05/2021 08:02 | 62.1 | 25.8 | 0.1 | 1 | 1 | NM | 1002 | N/A | -0.05 | 05/05/2021 08:17 | | 1007 | 13.6 |
| 08/05/2021 09:02 | 61.8 | 26.0 | 0.2 | 1 | 1 | NM | 1002 | N/A | 0.59 | 05/05/2021 09:17 | | 1007 | 15.7 |
| 08/05/2021 10:02 | 61.4 | 25.8 | 0.3 | 0 | 1 | NM | 1002 | N/A | 0.11 | 05/05/2021 10:17 | | 1008 | 16.2 |
| 08/05/2021 11:02 | 60.7 | 25.7 | 0.4 | 0 | 1 | NM | 1001 | N/A | -0.21 | 05/05/2021 11:17 | | 1008 | 17.1 |
| 08/05/2021 12:02 | 59.0 | 25.3 | 0.9 | 0 | 3 | NM | 1002 | N/A | -0.18 | 05/05/2021 12:17 | | 1008 | 17.8 |
| 08/05/2021 13:02 | 56.4 | 25.0 | 1.6 | 0 | 4 | NM | 1002 | N/A | -0.06 | 05/05/2021 13:17 | | 1008 | 16.6 |
| 08/05/2021 14:02 | 55.7 | 24.7 | 1.8 | 0 | 4 | NM | 1002 | N/A | -0.04 | 05/05/2021 14:17 | | 1008 | 12.6 |
| 08/05/2021 15:02 | 56.4 | 25.0 | 1.5 | 0 | 4 | NM | 1001 | N/A | 0.26 | 05/05/2021 15:17 | | 1008 | 14.8 |

| Date and Time | $CH_4$ % v/v | $CO_2$ % v/v | $O_2$ % v/v | $H_2S$ ppm/v | CO ppm/v | Borehole Pressure mbar | Atmospheric Pressure mbar | Differential Pressure mbar | Flow Ltr/hr | | Water Level mbgl | Atmospheric Pressure mbar | Temperature °C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 08/05/2021 16:02 | 57.0 | 25.0 | 1.1 | 0 | 4 | NM | 1001 | N/A | 0.18 | 05/05/2021 16:17 | | 1007 | 15.2 |
| 08/05/2021 17:02 | 57.8 | 25.1 | 0.8 | 0 | 4 | NM | 1001 | N/A | 0.58 | 05/05/2021 17:17 | | 1008 | 11.4 |
| 08/05/2021 18:02 | 58.2 | 25.0 | 0.7 | 0 | 4 | NM | 1000 | N/A | 0.49 | 05/05/2021 18:17 | | 1008 | 10.0 |
| 08/05/2021 19:02 | 58.3 | 24.6 | 0.6 | 0 | 3 | NM | 1000 | N/A | 0.26 | 05/05/2021 19:17 | | 1008 | 8.5 |
| 08/05/2021 20:02 | 58.8 | 24.5 | 0.6 | 0 | 3 | NM | 1000 | N/A | -0.02 | 05/05/2021 20:17 | | 1008 | 6.3 |
| 08/05/2021 21:02 | 59.0 | 24.2 | 0.5 | 0 | 3 | NM | 1000 | N/A | 0.77 | 05/05/2021 21:17 | | 1008 | 5.1 |
| 08/05/2021 22:02 | 59.5 | 24.5 | 0.4 | 0 | 3 | NM | 999 | N/A | 0.85 | 05/05/2021 22:17 | | 1007 | 4.4 |
| 08/05/2021 23:02 | 60.4 | 24.8 | 0.3 | 0 | 3 | NM | 998 | N/A | 0.59 | 05/05/2021 23:17 | | 1007 | 3.6 |
| 09/05/2021 00:02 | 60.4 | 24.3 | 0.3 | 0 | 3 | NM | 997 | N/A | 1.01 | 06/05/2021 00:17 | | 1007 | 3.0 |
| 09/05/2021 01:02 | 60.8 | 24.5 | 0.2 | 0 | 3 | NM | 997 | N/A | 1.42 | 06/05/2021 01:17 | | 1006 | 2.4 |
| 09/05/2021 02:02 | 61.3 | 24.7 | 0.2 | 0 | 3 | NM | 996 | N/A | 0.91 | 06/05/2021 02:17 | | 1005 | 2.0 |
| 09/05/2021 03:02 | 61.1 | 24.5 | 0.2 | 0 | 3 | NM | 996 | N/A | 0.68 | 06/05/2021 03:17 | | 1005 | 1.2 |
| 09/05/2021 04:02 | 61.0 | 24.1 | 0.2 | 0 | 3 | NM | 995 | N/A | 1.65 | 06/05/2021 04:17 | | 1004 | 0.7 |
| 09/05/2021 05:02 | 60.9 | 24.3 | 0.2 | 0 | 2 | NM | 995 | N/A | 1.18 | 06/05/2021 05:17 | | 1004 | 1.2 |
| 09/05/2021 06:02 | 60.4 | 24.3 | 0.2 | 0 | 2 | NM | 995 | N/A | 1.27 | 06/05/2021 06:17 | | 1004 | 3.2 |
| 09/05/2021 07:02 | 60.5 | 24.4 | 0.2 | 0 | 2 | NM | 995 | N/A | 0.84 | 06/05/2021 07:17 | | 1004 | 8.5 |
| 09/05/2021 08:02 | 60.6 | 24.7 | 0.1 | 0 | 2 | NM | 995 | N/A | 0.98 | 06/05/2021 08:17 | | 1003 | 14.0 |
| 09/05/2021 09:02 | 60.3 | 25.0 | 0.1 | 0 | 2 | NM | 994 | N/A | 0.46 | 06/05/2021 09:17 | | 1003 | 13.0 |
| 09/05/2021 10:02 | 60.3 | 25.1 | 0.2 | 0 | 2 | NM | 995 | N/A | -0.10 | 06/05/2021 10:17 | | 1003 | 13.8 |
| 09/05/2021 11:02 | 60.3 | 25.3 | 0.3 | 0 | 2 | NM | 995 | N/A | 0.93 | 06/05/2021 11:17 | | 1003 | 17.7 |
| 09/05/2021 12:02 | 60.5 | 25.1 | 0.2 | 0 | 2 | NM | 994 | N/A | 0.18 | 06/05/2021 12:17 | | 1003 | 18.2 |
| 09/05/2021 13:02 | 60.6 | 25.2 | 0.2 | 0 | 2 | NM | 994 | N/A | 1.43 | 06/05/2021 13:17 | | 1003 | 18.6 |
| 09/05/2021 14:02 | 61.2 | 25.9 | 0.2 | 0 | 2 | NM | 994 | N/A | 0.72 | 06/05/2021 14:17 | | 1003 | 17.1 |
| 09/05/2021 15:02 | 61.0 | 25.2 | 0.2 | 0 | 2 | NM | 994 | N/A | 0.59 | 06/05/2021 15:17 | | 1003 | 18.0 |
| 09/05/2021 16:02 | 61.3 | 25.3 | 0.2 | 0 | 2 | NM | 993 | N/A | 1.41 | 06/05/2021 16:17 | | 1004 | 17.9 |
| 09/05/2021 17:02 | 61.2 | 25.3 | 0.1 | 0 | 2 | NM | 993 | N/A | 1.39 | 06/05/2021 17:17 | | 1005 | 19.7 |
| 09/05/2021 18:02 | 60.9 | 25.2 | 0.3 | 1 | 2 | NM | 993 | N/A | 1.53 | 06/05/2021 18:17 | | 1005 | 16.4 |
| 09/05/2021 19:02 | 61.2 | 25.2 | 0.2 | 0 | 2 | NM | 993 | N/A | 0.82 | 06/05/2021 19:17 | | 1006 | 12.8 |
| 09/05/2021 20:02 | 60.8 | 24.6 | 0.2 | 0 | 2 | NM | 993 | N/A | 1.04 | 06/05/2021 20:17 | | 1007 | 8.1 |
| 09/05/2021 21:02 | 61.2 | 25.2 | 0.2 | 0 | 2 | NM | 993 | N/A | 2.37 | 06/05/2021 21:17 | | 1007 | 6.2 |
| 09/05/2021 22:02 | 61.1 | 24.7 | 0.3 | 0 | 3 | NM | 993 | N/A | 1.14 | 06/05/2021 22:17 | | 1008 | 5.7 |
| 09/05/2021 23:02 | 61.0 | 24.4 | 0.2 | 0 | 2 | NM | 994 | N/A | 0.45 | 06/05/2021 23:17 | | 1009 | 5.0 |
| 10/05/2021 00:02 | 61.2 | 24.3 | 0.2 | 1 | 2 | NM | 994 | N/A | 1.02 | 07/05/2021 00:17 | | 1009 | 4.2 |
| 10/05/2021 01:02 | 61.5 | 24.9 | 0.2 | 0 | 3 | NM | 994 | N/A | 1.47 | 07/05/2021 01:17 | | 1010 | 3.7 |
| 10/05/2021 02:02 | 61.7 | 24.8 | 0.2 | 1 | 2 | NM | 994 | N/A | 0.39 | 07/05/2021 02:17 | | 1011 | 2.9 |
| 10/05/2021 03:02 | 61.4 | 24.6 | 0.3 | 0 | 2 | NM | 994 | N/A | -0.27 | 07/05/2021 03:17 | | 1011 | 2.3 |
| 10/05/2021 04:02 | 61.1 | 24.6 | 0.4 | 0 | 2 | NM | 995 | N/A | -0.02 | 07/05/2021 04:17 | | 1012 | 1.7 |
| 10/05/2021 05:02 | 61.1 | 24.8 | 0.4 | 0 | 3 | NM | 995 | N/A | 0.41 | 07/05/2021 05:17 | | 1012 | 2.1 |
| 10/05/2021 06:02 | 60.6 | 24.6 | 0.6 | 0 | 3 | NM | 995 | N/A | -0.03 | 07/05/2021 06:17 | | 1013 | 7.0 |
| 10/05/2021 07:02 | 59.7 | 24.4 | 0.8 | 0 | 4 | NM | 996 | N/A | -0.26 | 07/05/2021 07:17 | | 1014 | 11.0 |
| 10/05/2021 08:02 | 58.5 | 24.3 | 1.1 | 0 | 4 | NM | 996 | N/A | -0.19 | 07/05/2021 08:17 | | 1014 | 14.9 |
| 10/05/2021 09:02 | 56.4 | 23.7 | 1.7 | 0 | 5 | NM | 997 | N/A | -0.28 | 07/05/2021 09:17 | | 1015 | 17.7 |
| 10/05/2021 10:02 | 53.4 | 22.7 | 2.5 | 0 | 6 | NM | 998 | N/A | -0.37 | 07/05/2021 10:17 | | 1015 | 20.0 |
| 10/05/2021 11:02 | 50.6 | 22.3 | 3.4 | 0 | 6 | NM | 999 | N/A | -0.67 | 07/05/2021 11:17 | | 1015 | 20.6 |
| 10/05/2021 12:02 | 47.6 | 21.1 | 4.3 | 0 | 6 | NM | 999 | N/A | -0.19 | 07/05/2021 12:17 | | 1015 | 19.9 |
| 10/05/2021 13:02 | 45.9 | 20.5 | 4.7 | 0 | 6 | NM | 1000 | N/A | -0.61 | 07/05/2021 13:17 | | 1015 | 19.3 |
| 10/05/2021 14:02 | 44.9 | 20.3 | 4.8 | 0 | 7 | NM | 1000 | N/A | -0.27 | 07/05/2021 14:17 | | 1015 | 21.6 |
| 10/05/2021 15:02 | 45.3 | 20.3 | 4.7 | 0 | 7 | NM | 1001 | N/A | -0.27 | 07/05/2021 15:17 | | 1014 | 21.2 |
| 10/05/2021 16:02 | 46.5 | 20.6 | 4.2 | 1 | 7 | NM | 1001 | N/A | -0.12 | 07/05/2021 16:17 | | 1014 | 17.4 |
| 10/05/2021 17:02 | 47.5 | 21.1 | 3.7 | 0 | 5 | NM | 1001 | N/A | 0.01 | 07/05/2021 17:17 | | 1014 | 16.0 |
| 10/05/2021 18:02 | 47.3 | 21.1 | 4.0 | 0 | 5 | NM | 1001 | N/A | -0.16 | 07/05/2021 18:17 | | 1014 | 13.6 |
| 10/05/2021 19:02 | 47.8 | 21.0 | 3.9 | 0 | 5 | NM | 1002 | N/A | 0.06 | 07/05/2021 19:17 | | 1014 | 11.3 |
| 10/05/2021 20:02 | 49.9 | 21.4 | 3.0 | 0 | 4 | NM | 1003 | N/A | 0.29 | 07/05/2021 20:17 | | 1013 | 9.9 |
| 10/05/2021 21:02 | 51.3 | 21.9 | 2.6 | 0 | 4 | NM | 1003 | N/A | 0.26 | 07/05/2021 21:17 | | 1013 | 9.6 |
| 10/05/2021 22:02 | 52.5 | 22.2 | 2.3 | 0 | 3 | NM | 1003 | N/A | 0.32 | 07/05/2021 22:17 | | 1012 | 9.2 |
| 10/05/2021 23:02 | 53.0 | 21.9 | 2.0 | 0 | 3 | NM | 1004 | N/A | 0.53 | 07/05/2021 23:17 | | 1011 | 8.9 |
| 11/05/2021 00:02 | 54.1 | 22.6 | 1.9 | 0 | 3 | NM | 1004 | N/A | 0.35 | 08/05/2021 00:17 | | 1010 | 9.0 |
| 11/05/2021 01:02 | 54.9 | 22.8 | 1.6 | 0 | 3 | NM | 1003 | N/A | 0.98 | 08/05/2021 01:17 | | 1009 | 8.7 |
| 11/05/2021 02:02 | 55.8 | 22.7 | 1.4 | 1 | 3 | NM | 1003 | N/A | 1.12 | 08/05/2021 02:17 | | 1008 | 8.5 |
| 11/05/2021 03:02 | 56.4 | 22.7 | 1.2 | 0 | 3 | NM | 1003 | N/A | 0.61 | 08/05/2021 03:17 | | 1007 | 8.7 |
| 11/05/2021 04:02 | 57.1 | 22.9 | 1.1 | 1 | 3 | NM | 1003 | N/A | 0.23 | 08/05/2021 04:17 | | 1005 | 9.1 |
| 11/05/2021 05:02 | 57.5 | 22.7 | 1.0 | 1 | 3 | NM | 1004 | N/A | 0.43 | 08/05/2021 05:17 | | 1004 | 9.2 |
| 11/05/2021 06:02 | 58.4 | 23.6 | 0.9 | 1 | 3 | NM | 1004 | N/A | 0.78 | 08/05/2021 06:17 | | 1003 | 9.8 |
| 11/05/2021 07:02 | 58.7 | 23.4 | 0.8 | 0 | 3 | NM | 1004 | N/A | 0.65 | 08/05/2021 07:17 | | 1002 | 10.3 |
| 11/05/2021 08:02 | 59.0 | 24.3 | 0.8 | 0 | 3 | NM | 1004 | N/A | 0.51 | 08/05/2021 08:17 | | 1002 | 10.7 |
| 11/05/2021 09:02 | 58.7 | 24.1 | 0.8 | 0 | 3 | NM | 1004 | N/A | -0.07 | 08/05/2021 09:17 | | 1002 | 11.7 |
| 11/05/2021 10:02 | 58.9 | 24.0 | 0.8 | 0 | 3 | NM | 1005 | N/A | 0.12 | 08/05/2021 10:17 | | 1002 | 12.7 |
| 11/05/2021 11:02 | 59.0 | 24.1 | 0.8 | 0 | 3 | NM | 1005 | N/A | 0.37 | 08/05/2021 11:17 | | 1001 | 14.0 |
| 11/05/2021 12:02 | 59.2 | 24.4 | 0.7 | 0 | 3 | NM | 1005 | N/A | 0.62 | 08/05/2021 12:17 | | 1002 | 16.0 |
| 11/05/2021 13:02 | 59.5 | 24.2 | 0.6 | 0 | 3 | NM | 1005 | N/A | 0.40 | 08/05/2021 13:17 | | 1002 | 16.0 |
| 11/05/2021 14:02 | 59.9 | 24.4 | 0.6 | 0 | 3 | NM | 1004 | N/A | 1.16 | 08/05/2021 14:17 | | 1002 | 16.2 |
| 11/05/2021 15:02 | 60.3 | 24.7 | 0.5 | 0 | 3 | NM | 1004 | N/A | 0.73 | 08/05/2021 15:17 | | 1001 | 16.7 |
| 11/05/2021 16:02 | 60.5 | 24.8 | 0.4 | 0 | 3 | NM | 1004 | N/A | 0.70 | 08/05/2021 16:17 | | 1001 | 16.8 |
| 11/05/2021 17:02 | 60.7 | 24.5 | 0.4 | 0 | 3 | NM | 1004 | N/A | -0.12 | 08/05/2021 17:17 | | 1001 | 17.0 |
| 11/05/2021 18:02 | 59.2 | 23.9 | 0.8 | 0 | 3 | NM | 1004 | N/A | -0.21 | 08/05/2021 18:17 | | 1000 | 16.2 |
| 11/05/2021 19:02 | 59.1 | 23.9 | 1.0 | 0 | 4 | NM | 1005 | N/A | -0.12 | 08/05/2021 19:17 | | 1000 | 15.2 |
| 11/05/2021 20:02 | 57.8 | 23.4 | 1.4 | 0 | 4 | NM | 1005 | N/A | -0.09 | 08/05/2021 20:17 | | 1000 | 14.5 |
| 11/05/2021 21:02 | 58.2 | 23.4 | 1.2 | 0 | 4 | NM | 1006 | N/A | 0.23 | 08/05/2021 21:17 | | 1000 | 13.4 |
| 11/05/2021 22:02 | 58.2 | 23.2 | 1.2 | 0 | 3 | NM | 1006 | N/A | 0.15 | 08/05/2021 22:17 | | 999 | 11.7 |
| 11/05/2021 23:02 | 58.3 | 23.3 | 1.1 | 0 | 4 | NM | 1006 | N/A | 0.24 | 08/05/2021 23:17 | | 998 | 11.5 |
| 12/05/2021 00:02 | 58.4 | 23.5 | 1.0 | 1 | 3 | NM | 1006 | N/A | 0.06 | 09/05/2021 00:17 | | 997 | 11.3 |
| 12/05/2021 01:02 | 58.7 | 23.4 | 0.9 | 0 | 3 | NM | 1006 | N/A | 0.45 | 09/05/2021 01:17 | | 997 | 11.2 |
| 12/05/2021 02:02 | 59.2 | 23.4 | 0.8 | 0 | 3 | NM | 1006 | N/A | 0.64 | 09/05/2021 02:17 | | 996 | 11.0 |
| 12/05/2021 03:02 | 59.4 | 23.2 | 0.7 | 1 | 3 | NM | 1006 | N/A | 0.68 | 09/05/2021 03:17 | | 996 | 10.7 |
| 12/05/2021 04:02 | 60.2 | 23.6 | 0.6 | 1 | 3 | NM | 1006 | N/A | 0.54 | 09/05/2021 04:17 | | 995 | 10.4 |
| 12/05/2021 05:02 | 60.5 | 23.9 | 0.5 | 1 | 3 | NM | 1006 | N/A | 0.66 | 09/05/2021 05:17 | | 995 | 10.9 |
| 12/05/2021 06:02 | 61.1 | 24.6 | 0.4 | 1 | 3 | NM | 1007 | N/A | 0.48 | 09/05/2021 06:17 | | 995 | 11.7 |
| 12/05/2021 07:02 | 60.8 | 24.1 | 0.4 | 0 | 3 | NM | 1007 | N/A | 0.64 | 09/05/2021 07:17 | | 995 | 13.0 |
| 12/05/2021 08:02 | 60.6 | 24.1 | 0.4 | 0 | 3 | NM | 1007 | N/A | 0.26 | 09/05/2021 08:17 | Groundwater | 995 | 18.3 |
| 12/05/2021 09:02 | 60.8 | 24.4 | 0.4 | 0 | 3 | NM | 1007 | N/A | 0.48 | 09/05/2021 09:17 | remained below | 994 | 20.4 |
| 12/05/2021 10:02 | 61.0 | 24.8 | 0.4 | 0 | 3 | NM | 1006 | N/A | 0.54 | 09/05/2021 10:17 | levelogger. | 995 | 19.9 |
| 12/05/2021 11:02 | 61.1 | 24.6 | 0.3 | 0 | 3 | NM | 1006 | N/A | 0.75 | 09/05/2021 11:17 | | 995 | 21.7 |
| 12/05/2021 12:02 | 61.5 | 25.3 | 0.3 | 0 | 3 | NM | 1006 | N/A | 0.74 | 09/05/2021 12:17 | | 994 | 20.8 |
| 12/05/2021 13:02 | 61.7 | 25.0 | 0.3 | 0 | 3 | NM | 1006 | N/A | 0.65 | 09/05/2021 13:17 | | 994 | 22.5 |
| 12/05/2021 14:02 | 61.7 | 25.0 | 0.3 | 0 | 2 | NM | 1005 | N/A | 1.20 | 09/05/2021 14:17 | | 994 | 23.8 |
| 12/05/2021 15:02 | 62.0 | 25.0 | 0.2 | 0 | 2 | NM | 1005 | N/A | 0.76 | 09/05/2021 15:17 | | 994 | 20.1 |
| 12/05/2021 16:02 | 62.4 | 25.3 | 0.2 | 0 | 2 | NM | 1005 | N/A | 1.23 | 09/05/2021 16:17 | | 993 | 20.5 |
| 12/05/2021 17:02 | 62.5 | 24.8 | 0.2 | 0 | 2 | NM | 1004 | N/A | 1.03 | 09/05/2021 17:17 | | 993 | 19.5 |
| 12/05/2021 18:02 | 62.7 | 25.2 | 0.1 | 0 | 2 | NM | 1004 | N/A | 1.25 | 09/05/2021 18:17 | | 993 | 16.2 |
| 12/05/2021 19:02 | 62.4 | 24.9 | 0.1 | 0 | 2 | NM | 1004 | N/A | 0.86 | 09/05/2021 19:17 | | 993 | 14.5 |
| 12/05/2021 20:02 | 62.7 | 25.3 | 0.1 | 0 | 2 | NM | 1004 | N/A | 0.95 | 09/05/2021 20:17 | | 993 | 13.4 |
| 12/05/2021 21:02 | 62.8 | 25.2 | 0.1 | 0 | 2 | NM | 1004 | N/A | 1.73 | 09/05/2021 21:17 | | 993 | 12.7 |
| 12/05/2021 22:02 | 63.0 | 25.1 | 0.1 | 0 | 2 | NM | 1003 | N/A | 1.58 | 09/05/2021 22:17 | | 993 | 11.9 |
| 12/05/2021 23:02 | 63.4 | 25.3 | 0.1 | 1 | 2 | NM | 1002 | N/A | 1.35 | 09/05/2021 23:17 | | 994 | 11.2 |
| 13/05/2021 00:02 | 63.3 | 24.9 | 0.1 | 1 | 2 | NM | 1002 | N/A | 1.30 | 10/05/2021 00:17 | | 994 | 10.7 |
| 13/05/2021 01:02 | 63.4 | 24.9 | 0.1 | 1 | 2 | NM | 1001 | N/A | 1.53 | 10/05/2021 01:17 | | 994 | 10.4 |
| 13/05/2021 02:02 | 63.7 | 25.0 | 0.1 | 0 | 2 | NM | 1001 | N/A | 1.02 | 10/05/2021 02:17 | | 994 | 10.2 |
| 13/05/2021 03:02 | 63.8 | 25.3 | 0.1 | 0 | 2 | NM | 1001 | N/A | 1.04 | 10/05/2021 03:17 | | 994 | 10.2 |
| 13/05/2021 04:02 | 63.5 | 24.9 | 0.1 | 1 | 2 | NM | 1001 | N/A | 1.11 | 10/05/2021 04:17 | | 995 | 10.5 |
| 13/05/2021 05:02 | 63.5 | 25.1 | 0.1 | 1 | 2 | NM | 1001 | N/A | 0.99 | 10/05/2021 05:17 | | 995 | 10.2 |
| 13/05/2021 06:02 | 63.3 | 25.3 | 0.1 | 1 | 2 | NM | 1001 | N/A | 1.25 | 10/05/2021 06:17 | | 995 | 11.8 |
| 13/05/2021 07:02 | 63.0 | 25.3 | 0.1 | 1 | 2 | NM | 1001 | N/A | 0.47 | 10/05/2021 07:17 | | 996 | 13.1 |
| 13/05/2021 08:02 | 62.8 | 25.3 | 0.1 | 1 | 2 | NM | 1002 | N/A | 0.18 | 10/05/2021 08:17 | | 996 | 13.5 |
| 13/05/2021 09:02 | 62.6 | 25.3 | 0.1 | 0 | 2 | NM | 1002 | N/A | 0.39 | 10/05/2021 09:17 | | 997 | 14.9 |
| 13/05/2021 10:02 | 62.5 | 25.1 | 0.2 | 0 | 2 | NM | 1002 | N/A | 0.73 | 10/05/2021 10:17 | | 998 | 17.3 |
| 13/05/2021 11:02 | 62.6 | 25.4 | 0.2 | 0 | 2 | NM | 1001 | N/A | 0.81 | 10/05/2021 11:17 | | 999 | 16.8 |
| 13/05/2021 12:02 | 62.6 | 25.6 | 0.2 | 0 | 2 | NM | 1002 | N/A | 0.55 | 10/05/2021 12:17 | | 999 | 18.2 |
| 13/05/2021 13:02 | 62.6 | 25.8 | 0.2 | 0 | 1 | NM | 1002 | N/A | 0.74 | 10/05/2021 13:17 | | 1000 | 19.8 |
| 13/05/2021 14:02 | 62.8 | 25.5 | 0.2 | 0 | 1 | NM | 1002 | N/A | 0.75 | 10/05/2021 14:17 | | 1000 | 21.9 |
| 13/05/2021 15:02 | 63.0 | 25.3 | 0.2 | 0 | 1 | NM | 1002 | N/A | 1.11 | 10/05/2021 15:17 | | 1001 | 22.0 |
| 13/05/2021 16:02 | 63.3 | 25.4 | 0.1 | 0 | 2 | NM | 1002 | N/A | 0.61 | 10/05/2021 16:17 | | 1001 | 21.1 |
| 13/05/2021 17:02 | 63.4 | 25.5 | 0.2 | 0 | 2 | NM | 1002 | N/A | 0.90 | 10/05/2021 17:17 | | 1001 | 19.9 |
| 13/05/2021 18:02 | 63.3 | 25.3 | 0.1 | 0 | 2 | NM | 1002 | N/A | 0.58 | 10/05/2021 18:17 | | 1001 | 17.6 |
| 13/05/2021 19:02 | 63.2 | 25.5 | 0.2 | 0 | 2 | NM | 1003 | N/A | 0.42 | 10/05/2021 19:17 | | 1002 | 14.7 |
| 13/05/2021 20:02 | 63.1 | 25.1 | 0.2 | 0 | 2 | NM | 1003 | N/A | 0.34 | 10/05/2021 20:17 | | 1003 | 11.6 |
| 13/05/2021 21:02 | 63.2 | 25.1 | 0.2 | 0 | 2 | NM | 1003 | N/A | 0.78 | 10/05/2021 21:17 | | 1003 | 10.8 |

| Date and Time | $CH_4$ % v/v | $CO_2$ % v/v | $O_2$ % v/v | $H_2S$ ppm/v | CO ppm/v | Borehole Pressure mbar | Atmospheric Pressure mbar | Differential Pressure mbar | Flow Ltr/hr | | Water Level mbgl | Atmospheric Pressure mbar | Temperature °C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 13/05/2021 22:02 | 63.3 | 25.1 | 0.2 | 1 | 2 | NM | 1004 | N/A | 0.63 | 10/05/2021 22:17 | | 1003 | 9.9 |
| 13/05/2021 23:02 | 63.2 | 25.5 | 0.2 | 1 | 2 | NM | 1004 | N/A | 0.73 | 10/05/2021 23:17 | | 1004 | 9.2 |
| 14/05/2021 00:02 | 63.4 | 25.3 | 0.1 | 1 | 2 | NM | 1004 | N/A | 0.94 | 11/05/2021 00:17 | | 1004 | 9.5 |
| 14/05/2021 01:02 | 63.6 | 24.9 | 0.1 | 1 | 2 | NM | 1004 | N/A | 1.01 | 11/05/2021 01:17 | | 1003 | 9.6 |
| 14/05/2021 02:02 | 63.7 | 25.1 | 0.1 | 0 | 2 | NM | 1004 | N/A | 0.58 | 11/05/2021 02:17 | | 1003 | 8.8 |
| 14/05/2021 03:02 | 63.6 | 25.0 | 0.1 | 0 | 2 | NM | 1004 | N/A | 0.55 | 11/05/2021 03:17 | | 1003 | 7.7 |
| 14/05/2021 04:02 | 63.8 | 25.1 | 0.1 | 1 | 2 | NM | 1004 | N/A | 0.95 | 11/05/2021 04:17 | | 1003 | 6.9 |
| 14/05/2021 05:02 | 63.8 | 25.3 | 0.1 | 0 | 2 | NM | 1005 | N/A | 0.10 | 11/05/2021 05:17 | | 1004 | 7.7 |
| 14/05/2021 06:02 | 63.6 | 25.2 | 0.2 | 0 | 2 | NM | 1006 | N/A | 0.12 | 11/05/2021 06:17 | | 1004 | 10.4 |
| 14/05/2021 07:02 | 63.4 | 25.1 | 0.2 | 0 | 2 | NM | 1007 | N/A | 0.48 | 11/05/2021 07:17 | | 1004 | 13.7 |
| 14/05/2021 08:02 | 63.3 | 24.9 | 0.2 | 0 | 2 | NM | 1007 | N/A | 0.62 | 11/05/2021 08:17 | | 1004 | 16.8 |
| 14/05/2021 09:02 | 63.4 | 25.3 | 0.2 | 0 | 2 | NM | 1007 | N/A | 0.87 | 11/05/2021 09:17 | | 1004 | 19.4 |
| 14/05/2021 10:02 | 63.3 | 25.3 | 0.2 | 0 | 2 | NM | 1008 | N/A | 0.73 | 11/05/2021 10:17 | | 1005 | 20.4 |
| 14/05/2021 11:02 | 63.2 | 25.3 | 0.2 | 0 | 2 | NM | 1008 | N/A | 0.92 | 11/05/2021 11:17 | | 1005 | 18.7 |
| 14/05/2021 12:02 | 62.8 | 25.1 | 0.2 | 0 | 2 | NM | 1008 | N/A | 0.79 | 11/05/2021 12:17 | | 1005 | 19.3 |
| 14/05/2021 13:02 | 63.2 | 25.5 | 0.2 | 0 | 2 | NM | 1007 | N/A | 0.98 | 11/05/2021 13:17 | | 1005 | 21.6 |
| 14/05/2021 14:02 | 63.1 | 25.5 | 0.1 | 0 | 2 | NM | 1007 | N/A | 0.93 | 11/05/2021 14:17 | | 1004 | 22.7 |
| 14/05/2021 15:02 | 63.2 | 25.3 | 0.2 | 0 | 1 | NM | 1007 | N/A | 0.98 | 11/05/2021 15:17 | | 1004 | 21.1 |
| 14/05/2021 16:02 | 63.3 | 25.3 | 0.1 | 0 | 2 | NM | 1007 | N/A | 1.18 | 11/05/2021 16:17 | | 1004 | 16.8 |
| 14/05/2021 17:02 | 63.3 | 24.9 | 0.1 | 0 | 2 | NM | 1006 | N/A | 1.27 | 11/05/2021 17:17 | | 1004 | 15.2 |
| 14/05/2021 18:02 | 63.3 | 25.2 | 0.1 | 0 | 2 | NM | 1006 | N/A | 1.11 | 11/05/2021 18:17 | | 1004 | 14.4 |
| 14/05/2021 19:02 | 63.2 | 24.9 | 0.1 | 0 | 2 | NM | 1005 | N/A | 0.79 | 11/05/2021 19:17 | | 1005 | 12.8 |
| 14/05/2021 20:02 | 63.4 | 25.3 | 0.1 | 0 | 2 | NM | 1005 | N/A | 1.10 | 11/05/2021 20:17 | | 1005 | 11.8 |
| 14/05/2021 21:02 | 63.4 | 25.1 | 0.1 | 0 | 2 | NM | 1005 | N/A | 0.79 | 11/05/2021 21:17 | | 1006 | 11.1 |
| 14/05/2021 22:02 | 63.5 | 25.2 | 0.1 | 0 | 2 | NM | 1004 | N/A | 1.30 | 11/05/2021 22:17 | | 1006 | 11.2 |
| 14/05/2021 23:02 | 63.7 | 25.5 | 0.1 | 0 | 2 | NM | 1004 | N/A | 2.17 | 11/05/2021 23:17 | | 1006 | 10.5 |
| 15/05/2021 00:02 | 64.0 | 25.5 | 0.0 | 0 | 2 | NM | 1003 | N/A | 1.48 | 12/05/2021 00:17 | | 1006 | 10.2 |
| 15/05/2021 01:02 | 64.1 | 25.3 | 0.0 | 0 | 2 | NM | 1002 | N/A | 1.58 | 12/05/2021 01:17 | | 1006 | 9.6 |
| 15/05/2021 02:02 | 64.2 | 25.2 | 0.0 | 0 | 2 | NM | 1001 | N/A | 1.61 | 12/05/2021 02:17 | | 1006 | 9.0 |
| 15/05/2021 03:02 | 63.9 | 24.8 | 0.0 | 0 | 2 | NM | 1000 | N/A | 1.96 | 12/05/2021 03:17 | | 1006 | 8.4 |
| 15/05/2021 04:02 | 64.1 | 25.2 | 0.0 | 1 | 2 | NM | 999 | N/A | 1.64 | 12/05/2021 04:17 | | 1006 | 8.0 |
| 15/05/2021 05:02 | 63.8 | 25.1 | 0.0 | 0 | 2 | NM | 998 | N/A | 1.57 | 12/05/2021 05:17 | | 1006 | 8.4 |
| 15/05/2021 06:02 | 63.3 | 25.2 | 0.1 | 0 | 2 | NM | 998 | N/A | 1.20 | 12/05/2021 06:17 | | 1007 | 12.1 |
| 15/05/2021 07:02 | 63.3 | 25.7 | 0.0 | 1 | 2 | NM | 997 | N/A | 1.89 | 12/05/2021 07:17 | | 1007 | 15.8 |
| 15/05/2021 08:02 | 63.1 | 25.6 | 0.0 | 1 | 2 | NM | 997 | N/A | 1.44 | 12/05/2021 08:17 | | 1007 | 17.1 |
| 15/05/2021 09:02 | 62.9 | 25.3 | 0.0 | 1 | 2 | NM | 996 | N/A | 0.79 | 12/05/2021 09:17 | | 1007 | 16.2 |
| 15/05/2021 10:02 | 63.0 | 25.8 | 0.1 | 0 | 1 | NM | 997 | N/A | 0.84 | 12/05/2021 10:17 | | 1006 | 19.8 |
| 15/05/2021 11:02 | 62.7 | 25.6 | 0.1 | 0 | 1 | NM | 997 | N/A | 0.63 | 12/05/2021 11:17 | | 1006 | 22.1 |
| 15/05/2021 12:02 | 62.7 | 25.7 | 0.1 | 0 | 1 | NM | 997 | N/A | 0.47 | 12/05/2021 12:17 | | 1006 | 23.1 |
| 15/05/2021 13:02 | 62.7 | 26.0 | 0.2 | 0 | 1 | NM | 997 | N/A | 0.63 | 12/05/2021 13:17 | | 1006 | 22.4 |
| 15/05/2021 14:02 | 62.7 | 25.8 | 0.2 | 0 | 1 | NM | 997 | N/A | 1.58 | 12/05/2021 14:17 | | 1005 | 22.1 |
| 15/05/2021 15:02 | 62.9 | 26.1 | 0.2 | 0 | 1 | NM | 997 | N/A | 0.06 | 12/05/2021 15:17 | | 1005 | 21.0 |
| 15/05/2021 16:02 | 62.9 | 25.8 | 0.2 | 0 | 2 | NM | 997 | N/A | 0.72 | 12/05/2021 16:17 | | 1005 | 17.0 |
| 15/05/2021 17:02 | 62.4 | 26.0 | 0.3 | 0 | 0 | NM | 997 | N/A | 0.15 | 12/05/2021 17:17 | | 1004 | 15.7 |
| 15/05/2021 18:02 | 63.3 | 26.3 | 0.3 | 0 | 1 | NM | 997 | N/A | 0.29 | 12/05/2021 18:17 | | 1004 | 14.6 |
| 15/05/2021 19:02 | 62.8 | 25.9 | 0.3 | 1 | 1 | NM | 997 | N/A | -0.23 | 12/05/2021 19:17 | | 1004 | 13.6 |
| 15/05/2021 20:02 | 62.7 | 26.3 | 0.3 | 0 | 2 | NM | 998 | N/A | 0.29 | 12/05/2021 20:17 | | 1004 | 12.7 |
| 15/05/2021 21:02 | 63.0 | 26.0 | 0.3 | 0 | 2 | NM | 998 | N/A | 0.92 | 12/05/2021 21:17 | | 1004 | 12.4 |
| 15/05/2021 22:02 | 62.8 | 25.7 | 0.3 | 0 | 2 | NM | 998 | N/A | 0.69 | 12/05/2021 22:17 | | 1003 | 12.1 |
| 15/05/2021 23:02 | 62.9 | 25.9 | 0.3 | 0 | 2 | NM | 998 | N/A | 0.47 | 12/05/2021 23:17 | | 1002 | 12.0 |
| 16/05/2021 00:02 | 63.1 | 25.5 | 0.2 | 0 | 2 | NM | 997 | N/A | 0.58 | 13/05/2021 00:17 | | 1002 | 11.9 |
| 16/05/2021 01:02 | 63.2 | 25.3 | 0.2 | 0 | 2 | NM | 997 | N/A | 0.88 | 13/05/2021 01:17 | | 1001 | 12.0 |
| 16/05/2021 02:02 | 63.4 | 25.6 | 0.1 | 0 | 2 | NM | 997 | N/A | 1.18 | 13/05/2021 02:17 | | 1001 | 11.2 |
| 16/05/2021 03:02 | 63.3 | 25.1 | 0.1 | 0 | 2 | NM | 997 | N/A | 0.96 | 13/05/2021 03:17 | | 1001 | 10.2 |
| 16/05/2021 04:02 | 63.5 | 25.0 | 0.1 | 0 | 2 | NM | 996 | N/A | -0.04 | 13/05/2021 04:17 | | 1001 | 9.7 |
| 16/05/2021 05:02 | 63.6 | 25.1 | 0.2 | 1 | 2 | NM | 996 | N/A | 0.71 | 13/05/2021 05:17 | | 1001 | 9.7 |
| 16/05/2021 06:02 | 63.8 | 25.1 | 0.1 | 0 | 2 | NM | 997 | N/A | 0.89 | 13/05/2021 06:17 | | 1001 | 10.0 |
| 16/05/2021 07:02 | 63.5 | 25.0 | 0.1 | 0 | 2 | NM | 996 | N/A | 0.92 | 13/05/2021 07:17 | | 1001 | 10.1 |
| 16/05/2021 08:02 | 63.5 | 25.1 | 0.1 | 0 | 2 | NM | 996 | N/A | 1.24 | 13/05/2021 08:17 | | 1002 | 11.9 |
| 16/05/2021 09:02 | 63.6 | 24.8 | 0.1 | 0 | 2 | NM | 996 | N/A | 1.33 | 13/05/2021 09:17 | | 1002 | 13.0 |
| 16/05/2021 10:02 | 63.1 | 24.7 | 0.1 | 0 | 2 | NM | 996 | N/A | 0.40 | 13/05/2021 10:17 | | 1002 | 13.2 |
| 16/05/2021 11:02 | 62.9 | 24.9 | 0.2 | 0 | 1 | NM | 996 | N/A | 0.14 | 13/05/2021 11:17 | | 1001 | 15.8 |
| 16/05/2021 12:02 | 63.1 | 24.9 | 0.2 | 0 | 1 | NM | 995 | N/A | 0.49 | 13/05/2021 12:17 | | 1002 | 17.2 |
| 16/05/2021 13:02 | 62.5 | 24.4 | 0.3 | 0 | 1 | NM | 995 | N/A | 0.23 | 13/05/2021 13:17 | | 1002 | 17.2 |
| 16/05/2021 14:02 | 62.6 | 24.2 | 0.2 | 0 | 2 | NM | 994 | N/A | 0.98 | 13/05/2021 14:17 | | 1002 | 15.6 |
| 16/05/2021 15:02 | 62.8 | 24.7 | 0.2 | 0 | 2 | NM | 994 | N/A | 0.56 | 13/05/2021 15:17 | | 1002 | 14.5 |
| 16/05/2021 16:02 | 62.7 | 24.4 | 0.2 | 0 | 2 | NM | 993 | N/A | 0.64 | 13/05/2021 16:17 | | 1002 | 15.0 |
| 16/05/2021 17:02 | 62.9 | 24.4 | 0.2 | 0 | 2 | NM | 993 | N/A | 1.13 | 13/05/2021 17:17 | | 1002 | 12.2 |
| 16/05/2021 18:02 | 63.1 | 24.3 | 0.2 | 0 | 2 | NM | 992 | N/A | 0.25 | 13/05/2021 18:17 | | 1002 | 11.4 |
| 16/05/2021 19:02 | 63.0 | 24.5 | 0.2 | 0 | 2 | NM | 993 | N/A | 0.51 | 13/05/2021 19:17 | | 1003 | 10.5 |
| 16/05/2021 20:02 | 63.1 | 24.5 | 0.2 | 0 | 2 | NM | 993 | N/A | -0.10 | 13/05/2021 20:17 | | 1003 | 10.1 |
| 16/05/2021 21:02 | 62.3 | 24.3 | 0.4 | 0 | 2 | NM | 994 | N/A | -0.03 | 13/05/2021 21:17 | | 1003 | 9.9 |
| 16/05/2021 22:02 | 62.6 | 24.7 | 0.4 | 0 | 2 | NM | 995 | N/A | 0.10 | 13/05/2021 22:17 | | 1004 | 9.2 |
| 16/05/2021 23:02 | 62.2 | 24.3 | 0.4 | 0 | 2 | NM | 996 | N/A | 0.19 | 13/05/2021 23:17 | | 1004 | 9.3 |
| 17/05/2021 00:02 | 62.5 | 24.5 | 0.4 | 0 | 2 | NM | 996 | N/A | 0.17 | 14/05/2021 00:17 | | 1004 | 9.3 |
| 17/05/2021 01:02 | 62.8 | 25.0 | 0.4 | 0 | 3 | NM | 997 | N/A | 0.30 | 14/05/2021 01:17 | | 1004 | 9.3 |
| 17/05/2021 02:02 | 62.8 | 24.8 | 0.4 | 0 | 2 | NM | 997 | N/A | 0.33 | 14/05/2021 02:17 | | 1004 | 9.2 |
| 17/05/2021 03:02 | 62.9 | 24.8 | 0.3 | 0 | 3 | NM | 998 | N/A | 0.54 | 14/05/2021 03:17 | | 1004 | 9.1 |
| 17/05/2021 04:02 | 62.6 | 24.7 | 0.4 | 0 | 3 | NM | 999 | N/A | 0.32 | 14/05/2021 04:17 | | 1004 | 9.1 |
| 17/05/2021 05:02 | 62.6 | 24.7 | 0.4 | 0 | 3 | NM | 1000 | N/A | 0.13 | 14/05/2021 05:17 | | 1005 | 9.3 |
| 17/05/2021 06:02 | 62.7 | 24.7 | 0.4 | 0 | 3 | NM | 1001 | N/A | 0.09 | 14/05/2021 06:17 | | 1006 | 10.4 |
| 17/05/2021 07:02 | 62.5 | 24.9 | 0.4 | 0 | 3 | NM | 1002 | N/A | 0.09 | 14/05/2021 07:17 | | 1007 | 11.1 |
| 17/05/2021 08:02 | 62.2 | 24.9 | 0.6 | 0 | 3 | NM | 1003 | N/A | -0.03 | 14/05/2021 08:17 | | 1007 | 12.0 |
| 17/05/2021 09:02 | 62.2 | 24.9 | 0.6 | 0 | 3 | NM | 1003 | N/A | -0.14 | 14/05/2021 09:17 | | 1007 | 12.7 |
| 17/05/2021 10:02 | 61.9 | 25.0 | 0.6 | 0 | 3 | NM | 1004 | N/A | 0.29 | 14/05/2021 10:17 | | 1008 | 14.4 |
| 17/05/2021 11:02 | 61.8 | 25.1 | 0.6 | 0 | 3 | NM | 1004 | N/A | 0.71 | 14/05/2021 11:17 | | 1008 | 16.8 |
| 17/05/2021 12:02 | 61.8 | 25.1 | 0.7 | 0 | 2 | NM | 1004 | N/A | 0.30 | 14/05/2021 12:17 | | 1008 | 16.4 |
| 17/05/2021 13:02 | 62.2 | 25.1 | 0.5 | 0 | 3 | NM | 1004 | N/A | 0.53 | 14/05/2021 13:17 | | 1007 | 16.9 |
| 17/05/2021 14:02 | 62.1 | 25.4 | 0.6 | 0 | 2 | NM | 1004 | N/A | -0.11 | 14/05/2021 14:17 | | 1007 | 17.6 |
| 17/05/2021 15:02 | 60.3 | 24.8 | 1.1 | 0 | 5 | NM | 1005 | N/A | 0.45 | 14/05/2021 15:17 | | 1007 | 15.9 |
| 17/05/2021 16:02 | 61.2 | 25.1 | 0.8 | 0 | 4 | NM | 1006 | N/A | 0.91 | 14/05/2021 16:17 | | 1007 | 14.4 |
| 17/05/2021 17:02 | 61.9 | 25.1 | 0.7 | 0 | 3 | NM | 1006 | N/A | 1.28 | 14/05/2021 17:17 | | 1006 | 13.7 |
| 17/05/2021 18:02 | 62.3 | 25.2 | 0.6 | 0 | 3 | NM | 1006 | N/A | 0.11 | 14/05/2021 18:17 | | 1006 | 13.1 |
| 17/05/2021 19:02 | 62.1 | 25.0 | 0.7 | 0 | 3 | NM | 1007 | N/A | 0.17 | 14/05/2021 19:17 | | 1005 | 11.6 |
| 17/05/2021 20:02 | 62.0 | 24.7 | 0.7 | 0 | 3 | NM | 1007 | N/A | -0.07 | 14/05/2021 20:17 | | 1005 | 10.4 |
| 17/05/2021 21:02 | 61.5 | 24.7 | 0.9 | 0 | 3 | NM | 1008 | N/A | 0.14 | 14/05/2021 21:17 | | 1005 | 9.8 |
| 17/05/2021 22:02 | 62.5 | 24.8 | 0.6 | 0 | 3 | NM | 1009 | N/A | 0.69 | 14/05/2021 22:17 | | 1004 | 10.1 |
| 17/05/2021 23:02 | 62.7 | 24.5 | 0.5 | 0 | 3 | NM | 1009 | N/A | 0.57 | 14/05/2021 23:17 | | 1004 | 10.1 |
| 18/05/2021 00:02 | 63.3 | 24.7 | 0.4 | 0 | 3 | NM | 1009 | N/A | 0.62 | 15/05/2021 00:17 | | 1003 | 10.2 |
| 18/05/2021 01:02 | 63.5 | 25.1 | 0.4 | 0 | 3 | NM | 1009 | N/A | 0.68 | 15/05/2021 01:17 | | 1002 | 10.2 |
| 18/05/2021 02:02 | 63.8 | 24.9 | 0.3 | 0 | 3 | NM | 1010 | N/A | 0.57 | 15/05/2021 02:17 | | 1001 | 9.7 |
| 18/05/2021 03:02 | 64.0 | 25.0 | 0.3 | 1 | 3 | NM | 1010 | N/A | 0.91 | 15/05/2021 03:17 | | 1000 | 9.4 |
| 18/05/2021 04:02 | 64.3 | 24.8 | 0.2 | 1 | 3 | NM | 1010 | N/A | -0.01 | 15/05/2021 04:17 | | 999 | 9.2 |
| 18/05/2021 05:02 | 64.4 | 24.8 | 0.2 | 1 | 3 | NM | 1010 | N/A | 0.93 | 15/05/2021 05:17 | | 998 | 9.1 |
| 18/05/2021 06:02 | 64.2 | 24.4 | 0.2 | 1 | 3 | NM | 1011 | N/A | 0.44 | 15/05/2021 06:17 | | 998 | 8.9 |
| 18/05/2021 07:02 | 64.2 | 25.2 | 0.2 | 0 | 3 | NM | 1011 | N/A | 0.70 | 15/05/2021 07:17 | | 997 | 9.4 |
| 18/05/2021 08:02 | 63.5 | 24.7 | 0.2 | 0 | 2 | NM | 1011 | N/A | 0.24 | 15/05/2021 08:17 | | 997 | 9.8 |
| 18/05/2021 09:02 | 63.8 | 24.9 | 0.2 | 0 | 2 | NM | 1011 | N/A | 0.83 | 15/05/2021 09:17 | | 996 | 11.2 |
| 18/05/2021 10:02 | 63.5 | 25.1 | 0.3 | 0 | 2 | NM | 1011 | N/A | 0.84 | 15/05/2021 10:17 | | 997 | 12.5 |
| 18/05/2021 11:02 | 63.4 | 25.3 | 0.3 | 0 | 2 | NM | 1011 | N/A | 0.51 | 15/05/2021 11:17 | | 997 | 13.9 |
| 18/05/2021 12:02 | 63.0 | 25.0 | 0.3 | 0 | 2 | NM | 1011 | N/A | 0.34 | 15/05/2021 12:17 | | 997 | 17.3 |
| 18/05/2021 13:02 | 62.5 | 25.1 | 0.4 | 0 | 2 | NM | 1011 | N/A | -0.12 | 15/05/2021 13:17 | | 997 | 17.5 |
| 18/05/2021 14:02 | 62.0 | 24.9 | 0.5 | 0 | 2 | NM | 1011 | N/A | 0.40 | 15/05/2021 14:17 | | 997 | 14.5 |
| 18/05/2021 15:02 | 62.5 | 25.2 | 0.5 | 0 | 2 | NM | 1011 | N/A | 0.52 | 15/05/2021 15:17 | | 997 | 16.2 |
| 18/05/2021 16:02 | 61.9 | 25.1 | 0.6 | 0 | 2 | NM | 1012 | N/A | 0.47 | 15/05/2021 16:17 | | 997 | 18.8 |
| 18/05/2021 17:02 | 62.0 | 24.8 | 0.6 | 0 | 3 | NM | 1012 | N/A | 1.05 | 15/05/2021 17:17 | | 997 | 15.7 |
| 18/05/2021 18:02 | 62.1 | 24.8 | 0.6 | 0 | 3 | NM | 1012 | N/A | 0.25 | 15/05/2021 18:17 | | 997 | 14.4 |
| 18/05/2021 19:02 | 62.2 | 24.4 | 0.6 | 0 | 3 | NM | 1012 | N/A | 0.63 | 15/05/2021 19:17 | | 997 | 12.7 |
| 18/05/2021 20:02 | 62.6 | 24.7 | 0.5 | 0 | 3 | NM | 1012 | N/A | 0.24 | 15/05/2021 20:17 | | 998 | 10.6 |
| 18/05/2021 21:02 | 63.0 | 24.8 | 0.5 | 0 | 3 | NM | 1013 | N/A | 0.10 | 15/05/2021 21:17 | | 998 | 10.8 |
| 18/05/2021 22:02 | 63.3 | 24.7 | 0.5 | 0 | 3 | NM | 1012 | N/A | 1.04 | 15/05/2021 22:17 | | 998 | 10.6 |
| 18/05/2021 23:02 | 63.2 | 24.4 | 0.4 | 0 | 3 | NM | 1012 | N/A | 1.10 | 15/05/2021 23:17 | | 998 | 10.4 |
| 19/05/2021 00:02 | 63.7 | 25.0 | 0.3 | 0 | 3 | NM | 1012 | N/A | 0.78 | 16/05/2021 00:17 | | 997 | 9.3 |
| 19/05/2021 01:02 | 63.7 | 24.4 | 0.3 | 0 | 3 | NM | 1012 | N/A | 1.03 | 16/05/2021 01:17 | | 997 | 9.2 |
| 19/05/2021 02:02 | 64.0 | 24.8 | 0.2 | 0 | 3 | NM | 1011 | N/A | 0.99 | 16/05/2021 02:17 | | 997 | 9.0 |
| 19/05/2021 03:02 | 64.3 | 25.1 | 0.2 | 0 | 2 | NM | 1011 | N/A | 1.37 | 16/05/2021 03:17 | | 997 | 9.0 |

| Date and Time | $CH_4$ % v/v | $CO_2$ % v/v | $O_2$ % v/v | $H_2S$ ppm/v | CO ppm/v | Borehole Pressure mbar | Atmospheric Pressure mbar | Differential Pressure mbar | Flow Ltr/hr |
|---|---|---|---|---|---|---|---|---|---|
| 19/05/2021 04:02 | 64.7 | 25.0 | 0.2 | 0 | 2 | NM | 1012 | N/A | 0.59 |
| 19/05/2021 05:02 | 64.3 | 24.5 | 0.2 | 0 | 2 | NM | 1012 | N/A | 0.40 |
| 19/05/2021 06:02 | 64.5 | 24.9 | 0.3 | 0 | 2 | NM | 1013 | N/A | 0.18 |
| 19/05/2021 07:02 | 64.8 | 25.0 | 0.3 | 0 | 2 | NM | 1014 | N/A | 0.44 |
| 19/05/2021 08:02 | 64.6 | 25.1 | 0.3 | 0 | 2 | NM | 1016 | N/A | 0.23 |

| | Water Level mbgl | Atmospheric Pressure mbar | Temperature °C |
|---|---|---|---|
| 16/05/2021 04:17 | | 996 | 9.1 |
| 16/05/2021 05:17 | | 996 | 8.5 |
| 16/05/2021 06:17 | | 997 | 10.9 |
| 16/05/2021 07:17 | | 996 | 10.0 |
| 16/05/2021 08:17 | | 996 | 10.6 |
| 16/05/2021 09:17 | | 996 | 12.4 |
| 16/05/2021 10:17 | | 996 | 15.8 |
| 16/05/2021 11:17 | | 996 | 15.9 |
| 16/05/2021 12:17 | | 995 | 17.2 |
| 16/05/2021 13:17 | | 995 | 13.9 |
| 16/05/2021 14:17 | | 994 | 15.2 |
| 16/05/2021 15:17 | | 994 | 15.0 |
| 16/05/2021 16:17 | | 993 | 13.5 |
| 16/05/2021 17:17 | | 993 | 12.2 |
| 16/05/2021 18:17 | | 992 | 11.8 |
| 16/05/2021 19:17 | | 993 | 11.8 |
| 16/05/2021 20:17 | | 993 | 11.0 |
| 16/05/2021 21:17 | | 994 | 10.6 |
| 16/05/2021 22:17 | | 995 | 10.4 |
| 16/05/2021 23:17 | | 996 | 9.8 |
| 17/05/2021 00:17 | | 996 | 9.6 |
| 17/05/2021 01:17 | | 997 | 9.4 |
| 17/05/2021 02:17 | | 997 | 9.2 |
| 17/05/2021 03:17 | | 998 | 8.7 |
| 17/05/2021 04:17 | | 999 | 8.9 |
| 17/05/2021 05:17 | | 1000 | 8.9 |
| 17/05/2021 06:17 | | 1001 | 10.1 |
| 17/05/2021 07:17 | | 1002 | 11.6 |
| 17/05/2021 08:17 | | 1003 | 13.8 |
| 17/05/2021 09:17 | | 1003 | 16.3 |
| 17/05/2021 10:17 | | 1004 | 17.4 |
| 17/05/2021 11:17 | | 1004 | 14.9 |
| 17/05/2021 12:17 | | 1004 | 15.1 |
| 17/05/2021 13:17 | | 1004 | 19.8 |
| 17/05/2021 14:17 | | 1004 | 21.3 |
| 17/05/2021 15:17 | | 1005 | 19.8 |
| 17/05/2021 16:17 | | 1006 | 16.2 |
| 17/05/2021 17:17 | | 1006 | 17.7 |
| 17/05/2021 18:17 | | 1006 | 18.4 |
| 17/05/2021 19:17 | | 1007 | 14.4 |
| 17/05/2021 20:17 | | 1007 | 12.3 |
| 17/05/2021 21:17 | | 1008 | 11.2 |
| 17/05/2021 22:17 | | 1009 | 10.9 |
| 17/05/2021 23:17 | | 1009 | 9.9 |
| 18/05/2021 00:17 | | 1009 | 7.9 |
| 18/05/2021 01:17 | | 1009 | 7.7 |
| 18/05/2021 02:17 | | 1010 | 6.4 |
| 18/05/2021 03:17 | | 1010 | 6.0 |
| 18/05/2021 04:17 | | 1010 | 5.6 |
| 18/05/2021 05:17 | | 1010 | 7.1 |
| 18/05/2021 06:17 | | 1011 | 11.8 |
| 18/05/2021 07:17 | | 1011 | 15.9 |
| 18/05/2021 08:17 | | 1011 | 16.0 |
| 18/05/2021 09:17 | | 1011 | 18.1 |
| 18/05/2021 10:17 | | 1011 | 20.3 |
| 18/05/2021 11:17 | | 1011 | 19.7 |
| 18/05/2021 12:17 | | 1011 | 21.9 |
| 18/05/2021 13:17 | | 1011 | 22.9 |
| 18/05/2021 14:17 | | 1011 | 23.7 |
| 18/05/2021 15:17 | | 1011 | 23.1 |
| 18/05/2021 16:17 | | 1012 | 17.9 |
| 18/05/2021 17:17 | | 1012 | 15.5 |
| 18/05/2021 18:17 | | 1012 | 15.3 |
| 18/05/2021 19:17 | | 1012 | 13.5 |
| 18/05/2021 20:17 | | 1012 | 12.2 |
| 18/05/2021 21:17 | | 1013 | 11.5 |
| 18/05/2021 22:17 | | 1012 | 11.1 |
| 18/05/2021 23:17 | | 1012 | 10.6 |
| 19/05/2021 00:17 | | 1012 | 10.6 |
| 19/05/2021 01:17 | | 1012 | 10.2 |
| 19/05/2021 02:17 | | 1011 | 10.1 |
| 19/05/2021 03:17 | | 1011 | 9.4 |
| 19/05/2021 04:17 | | 1012 | 9.0 |
| 19/05/2021 05:17 | | 1012 | 9.0 |
| 19/05/2021 06:17 | | 1013 | 9.7 |
| 19/05/2021 07:17 | | 1014 | 10.6 |
| 19/05/2021 08:17 | | 1016 | 10.7 |

# GGS Time Series Data

Experts in Continuous Monitoring

| | | |
|---|---|---|
| **Project Ref:** | GGS2440 | |
| **Location:** | Broadmarsh open Space, Harts Farm Way | |
| **Borehole ref:** | RO103 | |
| **Monitoring schedule:** | GC22/09/14 | 20/04/21 - 19/05/21 (90 mins) |
| | GS03000054 | 29/04/21 -19/05/21 (60 mins) |
| **Start Date:** | 20/04/2021 18:07 | Days of monitoring: 29 |
| **End Date:** | 19/05/2021 08:01 | Total samples taken: 616 |

**Minimum, Maximum and Range Table**

| | $CH_4$ | $CO_2$ | $O_2$ | $H_2S$ | CO | Borehole Pressure | Atmospheric Pressure | Differential Pressure | Flow | Water Level | Barologger Atmospheric Pressure | Barologger Temperature |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Minimum** | 2.5 | 1.0 | 0.0 | 0 | 0 | 993 | 992 | -2 | -0.24 | 7.58 | 992 | 0.3 |
| **Maximum** | 65.5 | 26.5 | 19.1 | 15 | 4 | 1027 | 1026 | 2 | 1.78 | 7.74 | 1026 | 23.8 |
| **Range** | 63.0 | 25.5 | 19.1 | 15 | 4 | 34 | 34 | N/A | 2.02 | 0.16 | 34 | 23.5 |

| Date and Time | $CH_4$ % v/v | $CO_2$ % v/v | $O_2$ % v/v | $H_2S$ ppm/v | CO ppm/v | Borehole Pressure mbar | Atmospheric Pressure mbar | Differential Pressure mbar | Flow Ltr/hr | | Water Level mbgl | Atmospheric Pressure mbar | Temperature °C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20/04/2021 18:07 | 53.9 | 20.7 | 0.0 | 12 | 4 | 1015 | 1014 | -1 | NM | 20/04/2021 18:17 | 7.58 | 1014 | 14.4 |
| 20/04/2021 19:37 | 58.6 | 21.5 | 0.0 | 12 | 4 | 1015 | 1015 | 0 | NM | 20/04/2021 19:17 | 7.58 | 1015 | 11.8 |
| 20/04/2021 21:07 | 61.2 | 21.7 | 0.0 | 12 | 4 | 1015 | 1015 | 0 | NM | 20/04/2021 20:17 | 7.59 | 1015 | 9.9 |
| 20/04/2021 22:37 | 60.6 | 22.2 | 0.0 | 12 | 4 | 1015 | 1015 | 0 | NM | 20/04/2021 21:17 | 7.59 | 1015 | 8.7 |
| 21/04/2021 00:07 | 60.8 | 22.5 | 0.0 | 12 | 4 | 1015 | 1015 | 0 | NM | 20/04/2021 22:17 | 7.59 | 1015 | 8.0 |
| 21/04/2021 01:37 | 60.6 | 22.4 | 0.0 | 12 | 4 | 1015 | 1015 | 0 | NM | 20/04/2021 23:17 | 7.59 | 1015 | 7.6 |
| 21/04/2021 03:07 | 60.8 | 22.8 | 0.0 | 12 | 4 | 1015 | 1015 | 0 | NM | 21/04/2021 00:17 | 7.59 | 1015 | 6.7 |
| 21/04/2021 04:37 | 61.5 | 23.1 | 0.0 | 12 | 4 | 1015 | 1015 | 0 | NM | 21/04/2021 01:17 | 7.59 | 1015 | 6.8 |
| 21/04/2021 06:07 | 61.0 | 23.1 | 0.0 | 12 | 4 | 1015 | 1015 | 0 | NM | 21/04/2021 02:17 | 7.59 | 1015 | 6.3 |
| 21/04/2021 07:37 | 60.8 | 24.1 | 0.0 | 12 | 4 | 1016 | 1016 | 0 | NM | 21/04/2021 03:17 | 7.59 | 1015 | 5.9 |
| 21/04/2021 09:07 | 60.3 | 24.2 | 0.0 | 12 | 4 | 1016 | 1016 | 0 | NM | 21/04/2021 04:17 | 7.59 | 1015 | 6.2 |
| 21/04/2021 10:37 | 59.9 | 24.7 | 0.0 | 12 | 4 | 1017 | 1017 | 0 | NM | 21/04/2021 05:17 | 7.59 | 1016 | 6.6 |
| 21/04/2021 12:07 | 60.0 | 24.0 | 0.0 | 12 | 4 | 1017 | 1017 | 0 | NM | 21/04/2021 06:17 | 7.60 | 1016 | 7.4 |
| 21/04/2021 13:37 | 60.8 | 24.9 | 0.0 | 12 | 4 | 1017 | 1017 | 0 | NM | 21/04/2021 07:17 | 7.60 | 1017 | 8.7 |
| 21/04/2021 15:07 | 60.8 | 24.7 | 0.0 | 12 | 4 | 1017 | 1017 | 0 | NM | 21/04/2021 08:17 | 7.60 | 1017 | 12.0 |
| 21/04/2021 16:37 | 61.0 | 24.6 | 0.0 | 12 | 4 | 1018 | 1018 | 0 | NM | 21/04/2021 09:17 | 7.60 | 1017 | 14.4 |
| 21/04/2021 18:07 | 61.1 | 25.1 | 0.0 | 12 | 4 | 1018 | 1018 | 0 | NM | 21/04/2021 10:17 | 7.60 | 1017 | 16.1 |
| 21/04/2021 19:37 | 61.9 | 24.9 | 0.0 | 12 | 4 | 1019 | 1018 | -1 | NM | 21/04/2021 11:17 | 7.60 | 1017 | 15.8 |
| 21/04/2021 21:07 | 62.2 | 25.0 | 0.0 | 12 | 4 | 1020 | 1020 | 0 | NM | 21/04/2021 12:17 | 7.60 | 1017 | 16.7 |
| 21/04/2021 22:37 | 62.6 | 24.9 | 0.0 | 12 | 4 | 1021 | 1020 | -1 | NM | 21/04/2021 13:17 | 7.60 | 1017 | 17.6 |
| 22/04/2021 00:07 | 62.4 | 25.4 | 0.0 | 12 | 4 | 1022 | 1021 | -1 | NM | 21/04/2021 14:17 | 7.60 | 1018 | 17.8 |
| 22/04/2021 01:37 | 63.2 | 25.1 | 0.0 | 12 | 4 | 1023 | 1022 | -1 | NM | 21/04/2021 15:17 | 7.60 | 1018 | 17.6 |
| 22/04/2021 03:07 | 63.2 | 25.0 | 0.0 | 12 | 4 | 1023 | 1022 | -1 | NM | 21/04/2021 16:17 | 7.61 | 1018 | 17.1 |
| 22/04/2021 04:37 | 63.8 | 25.1 | 0.0 | 12 | 4 | 1023 | 1022 | -1 | NM | 21/04/2021 17:17 | 7.61 | 1018 | 16.3 |
| 22/04/2021 06:07 | 62.9 | 24.7 | 0.0 | 12 | 4 | 1023 | 1023 | 0 | NM | 21/04/2021 18:17 | 7.61 | 1018 | 14.7 |
| 22/04/2021 07:37 | 62.9 | 24.9 | 0.0 | 12 | 4 | 1024 | 1023 | -1 | NM | 21/04/2021 19:17 | 7.61 | 1019 | 12.4 |
| 22/04/2021 09:07 | 62.0 | 25.1 | 0.0 | 12 | 4 | 1024 | 1024 | 0 | NM | 21/04/2021 20:17 | 7.61 | 1020 | 10.8 |
| 22/04/2021 10:37 | 62.1 | 25.3 | 0.0 | 12 | 4 | 1025 | 1024 | -1 | NM | 21/04/2021 21:17 | 7.61 | 1020 | 9.5 |
| 22/04/2021 12:07 | 62.4 | 25.0 | 0.0 | 12 | 4 | 1025 | 1023 | -2 | NM | 21/04/2021 22:17 | 7.61 | 1021 | 8.2 |
| 22/04/2021 13:37 | 62.8 | 24.7 | 0.0 | 12 | 4 | 1024 | 1023 | -1 | NM | 21/04/2021 23:17 | 7.61 | 1021 | 7.3 |
| 22/04/2021 15:07 | 62.2 | 24.5 | 0.0 | 12 | 4 | 1024 | 1023 | -1 | NM | 22/04/2021 00:17 | 7.62 | 1022 | 6.6 |
| 22/04/2021 16:37 | 61.7 | 25.1 | 0.0 | 12 | 4 | 1025 | 1023 | -2 | NM | 22/04/2021 01:17 | 7.62 | 1022 | 5.9 |
| 22/04/2021 18:07 | 62.3 | 25.0 | 0.0 | 12 | 4 | 1024 | 1023 | -1 | NM | 22/04/2021 02:17 | 7.62 | 1022 | 5.2 |
| 22/04/2021 19:37 | 62.8 | 25.2 | 0.0 | 12 | 4 | 1025 | 1024 | -1 | NM | 22/04/2021 03:17 | 7.62 | 1022 | 4.7 |
| 22/04/2021 21:07 | 62.9 | 25.4 | 0.0 | 12 | 4 | 1025 | 1024 | -1 | NM | 22/04/2021 04:17 | 7.62 | 1022 | 4.2 |
| 22/04/2021 22:37 | 64.3 | 25.1 | 0.0 | 12 | 4 | 1025 | 1024 | -1 | NM | 22/04/2021 05:17 | 7.62 | 1023 | 4.2 |
| 23/04/2021 00:07 | 63.8 | 25.4 | 0.0 | 12 | 4 | 1026 | 1025 | -1 | NM | 22/04/2021 06:17 | 7.62 | 1023 | 5.6 |
| 23/04/2021 01:37 | 64.4 | 25.3 | 0.0 | 12 | 4 | 1026 | 1025 | -1 | NM | 22/04/2021 07:17 | 7.62 | 1024 | 7.7 |
| 23/04/2021 03:07 | 63.3 | NM | 0.0 | 12 | 4 | 1026 | 1025 | -1 | NM | 22/04/2021 08:17 | 7.63 | 1024 | 9.7 |
| 23/04/2021 04:37 | 64.7 | NM | 0.0 | 12 | 4 | 1026 | 1024 | -2 | NM | 22/04/2021 09:17 | 7.63 | 1024 | 11.2 |
| 23/04/2021 06:07 | 64.1 | NM | 0.0 | 12 | 4 | 1026 | 1025 | -1 | NM | 22/04/2021 10:17 | 7.63 | 1024 | 13.1 |
| 23/04/2021 07:37 | 63.5 | NM | 0.0 | 12 | 4 | 1026 | 1025 | -1 | NM | 22/04/2021 11:17 | 7.63 | 1024 | 14.6 |
| 23/04/2021 09:07 | 62.1 | NM | 0.0 | 12 | 4 | 1027 | 1026 | -1 | NM | 22/04/2021 12:17 | 7.62 | 1024 | 15.6 |
| 23/04/2021 10:37 | 61.9 | NM | 0.0 | 12 | 4 | 1026 | 1025 | -1 | NM | 22/04/2021 13:17 | 7.62 | 1023 | 16.3 |
| 23/04/2021 12:07 | 61.8 | 25.5 | 0.0 | 12 | 4 | 1026 | 1025 | -1 | NM | 22/04/2021 14:17 | 7.62 | 1024 | 16.7 |
| 23/04/2021 13:37 | 61.5 | 25.3 | 0.0 | 11 | 4 | 1026 | 1024 | -2 | NM | 22/04/2021 15:17 | 7.63 | 1024 | 16.9 |
| 23/04/2021 15:07 | 61.7 | 25.2 | 0.0 | 11 | 4 | 1025 | 1024 | -1 | NM | 22/04/2021 16:17 | 7.63 | 1024 | 16.6 |
| 23/04/2021 16:37 | 62.1 | 24.9 | 0.0 | 11 | 4 | 1025 | 1024 | -1 | NM | 22/04/2021 17:17 | 7.62 | 1023 | 15.8 |
| 23/04/2021 18:07 | 62.3 | 25.8 | 0.0 | 11 | 4 | 1024 | 1023 | -1 | NM | 22/04/2021 18:17 | 7.62 | 1023 | 14.5 |
| 23/04/2021 19:37 | 62.8 | 25.6 | 0.0 | 11 | 4 | 1024 | 1023 | -1 | NM | 22/04/2021 19:17 | 7.63 | 1024 | 11.8 |
| 23/04/2021 21:07 | 63.1 | 26.0 | 0.0 | 11 | 4 | 1024 | 1023 | -1 | NM | 22/04/2021 20:17 | 7.63 | 1024 | 10.0 |
| 23/04/2021 22:37 | 63.5 | 25.5 | 0.0 | 12 | 4 | 1025 | 1023 | -2 | NM | 22/04/2021 21:17 | 7.62 | 1024 | 8.6 |
| 24/04/2021 00:07 | 63.9 | 25.9 | 0.0 | 12 | 4 | 1025 | 1024 | -1 | NM | 22/04/2021 22:17 | 7.63 | 1025 | 7.6 |
| 24/04/2021 01:37 | 63.5 | 25.1 | 0.0 | 11 | 4 | 1025 | 1024 | -1 | NM | 22/04/2021 23:17 | 7.63 | 1025 | 6.6 |
| 24/04/2021 03:07 | 63.7 | 25.8 | 0.0 | 11 | 4 | 1024 | 1023 | -1 | NM | 23/04/2021 00:17 | 7.63 | 1025 | 5.7 |
| 24/04/2021 04:37 | 63.1 | 25.7 | 0.0 | 11 | 4 | 1024 | 1023 | -1 | NM | 23/04/2021 01:17 | 7.62 | 1025 | 5.0 |
| 24/04/2021 06:07 | 63.5 | NM | 0.0 | 12 | 4 | 1024 | 1023 | -1 | NM | 23/04/2021 02:17 | 7.63 | 1025 | 4.8 |
| 24/04/2021 07:37 | 62.6 | NM | 0.0 | 11 | 4 | 1025 | 1024 | -1 | NM | 23/04/2021 03:17 | 7.63 | 1025 | 4.4 |
| 24/04/2021 09:07 | 62.2 | 25.7 | 0.0 | 12 | 4 | 1025 | 1024 | -1 | NM | 23/04/2021 04:17 | 7.63 | 1025 | 4.2 |
| 24/04/2021 10:37 | 62.2 | 25.3 | 0.0 | 11 | 4 | 1025 | 1024 | -1 | NM | 23/04/2021 05:17 | 7.63 | 1025 | 4.0 |
| 24/04/2021 12:07 | 62.3 | 25.9 | 0.0 | 11 | 4 | 1024 | 1023 | -1 | NM | 23/04/2021 06:17 | 7.63 | 1026 | 5.9 |
| 24/04/2021 13:37 | 61.7 | 25.8 | 0.0 | 11 | 4 | 1024 | 1023 | -1 | NM | 23/04/2021 07:17 | 7.63 | 1026 | 8.5 |
| 24/04/2021 15:07 | 61.8 | 25.4 | 0.0 | 11 | 4 | 1024 | 1023 | -1 | NM | 23/04/2021 08:17 | 7.63 | 1026 | 10.4 |
| 24/04/2021 16:37 | 61.9 | 26.5 | 0.0 | 11 | 4 | 1023 | 1022 | -1 | NM | 23/04/2021 09:17 | 7.63 | 1026 | 12.5 |
| 24/04/2021 18:07 | 61.6 | 25.0 | 0.0 | 11 | 4 | 1023 | 1022 | -1 | NM | 23/04/2021 10:17 | 7.63 | 1026 | 14.2 |
| 24/04/2021 19:37 | 61.7 | 25.7 | 0.0 | 11 | 4 | 1024 | 1022 | -2 | NM | 23/04/2021 11:17 | 7.63 | 1026 | 15.5 |
| 24/04/2021 21:07 | 59.8 | 24.8 | 0.0 | 11 | 4 | 1024 | 1023 | -1 | NM | 23/04/2021 12:17 | 7.63 | 1025 | 16.3 |
| 24/04/2021 22:37 | 63.5 | 25.1 | 0.0 | 12 | 4 | 1025 | 1024 | -1 | NM | 23/04/2021 13:17 | 7.63 | 1025 | 16.9 |
| 25/04/2021 00:07 | 63.4 | 25.3 | 0.0 | 11 | 4 | 1025 | 1024 | -1 | NM | 23/04/2021 14:17 | 7.63 | 1024 | 17.4 |
| 25/04/2021 01:37 | 64.0 | 25.3 | 0.0 | 11 | 4 | 1025 | 1024 | -1 | NM | 23/04/2021 15:17 | 7.63 | 1024 | 17.8 |
| 25/04/2021 03:07 | 63.7 | NM | 0.0 | 11 | 4 | 1025 | 1024 | -1 | NM | 23/04/2021 16:17 | 7.63 | 1024 | 17.7 |
| 25/04/2021 04:37 | 62.9 | NM | 0.0 | 11 | 4 | 1025 | 1024 | -1 | NM | 23/04/2021 17:17 | 7.63 | 1023 | 17.3 |
| 25/04/2021 06:07 | 63.1 | NM | 0.0 | 11 | 4 | 1025 | 1024 | -1 | NM | 23/04/2021 18:17 | 7.63 | 1023 | 15.2 |
| 25/04/2021 07:37 | 62.8 | NM | 0.0 | 11 | 4 | 1026 | 1025 | -1 | NM | 23/04/2021 19:17 | 7.63 | 1023 | 12.9 |
| 25/04/2021 09:07 | 61.8 | NM | 0.0 | 11 | 4 | 1026 | 1025 | -1 | NM | 23/04/2021 20:17 | 7.63 | 1024 | 11.0 |
| 25/04/2021 10:37 | 62.3 | NM | 0.0 | 11 | 4 | 1025 | 1025 | 0 | NM | 23/04/2021 21:17 | 7.63 | 1023 | 10.1 |
| 25/04/2021 12:07 | 61.8 | NM | 0.0 | 11 | 4 | 1026 | 1024 | -2 | NM | 23/04/2021 22:17 | 7.63 | 1024 | 9.5 |
| 25/04/2021 13:37 | 62.5 | NM | 0.0 | 11 | 4 | 1025 | 1024 | -1 | NM | 23/04/2021 23:17 | 7.63 | 1024 | 8.7 |
| 25/04/2021 15:07 | 62.5 | 25.9 | 0.0 | 11 | 4 | 1025 | 1024 | -1 | NM | 24/04/2021 00:17 | 7.63 | 1024 | 8.2 |
| 25/04/2021 16:37 | 63.9 | 25.3 | 0.0 | 11 | 4 | 1023 | 1022 | -1 | NM | 24/04/2021 01:17 | 7.63 | 1023 | 7.7 |
| 25/04/2021 18:07 | 61.7 | 26.2 | 0.0 | 11 | 4 | 1023 | 1022 | -1 | NM | 24/04/2021 02:17 | 7.63 | 1023 | 7.5 |
| 25/04/2021 19:37 | 62.1 | 26.2 | 0.0 | 11 | 4 | 1023 | 1022 | -1 | NM | 24/04/2021 03:17 | 7.63 | 1023 | 7.0 |
| 25/04/2021 21:07 | 62.5 | 25.8 | 0.0 | 11 | 4 | 1024 | 1023 | -1 | NM | 24/04/2021 04:17 | 7.63 | 1023 | 6.5 |
| 25/04/2021 22:37 | 63.0 | 26.2 | 0.0 | 12 | 4 | 1024 | 1022 | -2 | NM | 24/04/2021 05:17 | 7.63 | 1023 | 6.4 |
| 26/04/2021 00:07 | 63.7 | 25.3 | 0.0 | 11 | 4 | 1023 | 1022 | -1 | NM | 24/04/2021 06:17 | 7.63 | 1024 | 8.1 |
| 26/04/2021 01:37 | 63.3 | 25.6 | 0.0 | 11 | 4 | 1023 | 1022 | -1 | NM | 24/04/2021 07:17 | 7.64 | 1024 | 10.4 |
| 26/04/2021 03:07 | 64.2 | 25.9 | 0.0 | 11 | 4 | 1023 | 1021 | -2 | NM | 24/04/2021 08:17 | 7.64 | 1024 | 12.4 |
| 26/04/2021 04:37 | 63.9 | 25.8 | 0.0 | 11 | 4 | 1021 | 1021 | 0 | NM | 24/04/2021 09:17 | 7.63 | 1024 | 13.9 |
| 26/04/2021 06:07 | 63.9 | NM | 0.0 | 11 | 4 | 1021 | 1020 | -1 | NM | 24/04/2021 10:17 | 7.63 | 1024 | 15.4 |
| 26/04/2021 07:37 | 63.7 | NM | 0.0 | 11 | 4 | 1020 | 1020 | 0 | NM | 24/04/2021 11:17 | 7.63 | 1024 | 16.6 |
| 26/04/2021 09:07 | 62.1 | NM | 0.0 | 12 | 4 | 1020 | 1020 | 0 | NM | 24/04/2021 12:17 | 7.63 | 1023 | 17.4 |
| 26/04/2021 10:37 | 62.0 | 25.7 | 0.0 | 11 | 4 | 1019 | 1019 | 0 | NM | 24/04/2021 13:17 | 7.63 | 1023 | 18.0 |
| 26/04/2021 12:07 | 62.3 | NM | 0.0 | 11 | 4 | 1018 | 1018 | 0 | NM | 24/04/2021 14:17 | 7.63 | 1023 | 18.8 |
| 26/04/2021 13:37 | 62.9 | NM | 0.0 | 11 | 4 | 1017 | 1017 | 0 | NM | 24/04/2021 15:17 | 7.63 | 1022 | 18.9 |
| 26/04/2021 15:07 | 62.7 | 25.1 | 0.0 | 11 | 4 | 1015 | 1015 | 0 | NM | 24/04/2021 16:17 | 7.63 | 1022 | 18.5 |
| 26/04/2021 16:37 | 62.9 | NM | 0.0 | 11 | 4 | 1014 | 1014 | 0 | NM | 24/04/2021 17:17 | 7.63 | 1022 | 17.5 |
| 26/04/2021 18:07 | 61.8 | NM | 0.0 | 11 | 4 | 1013 | 1014 | 1 | NM | 24/04/2021 18:17 | 7.63 | 1022 | 16.0 |
| 26/04/2021 19:37 | 62.0 | 25.6 | 0.0 | 11 | 4 | 1013 | 1013 | 0 | NM | 24/04/2021 19:17 | 7.63 | 1023 | 13.3 |
| 26/04/2021 21:07 | 61.9 | 25.6 | 0.0 | 12 | 4 | 1013 | 1014 | 1 | NM | 24/04/2021 20:17 | 7.64 | 1023 | 11.6 |
| 26/04/2021 22:37 | 62.2 | 25.5 | 0.0 | 12 | 4 | 1013 | 1013 | 0 | NM | 24/04/2021 21:17 | 7.63 | 1024 | 10.3 |
| 27/04/2021 00:07 | 62.9 | 25.8 | 0.0 | 12 | 4 | 1012 | 1013 | 1 | NM | 24/04/2021 22:17 | 7.64 | 1024 | 9.1 |
| 27/04/2021 01:37 | 63.9 | 25.7 | 0.0 | 12 | 4 | 1012 | 1012 | 0 | NM | 24/04/2021 23:17 | 7.64 | 1024 | 8.2 |
| 27/04/2021 03:07 | 64.1 | NM | 0.0 | 11 | 4 | 1011 | 1011 | 0 | NM | 25/04/2021 00:17 | 7.64 | 1024 | 7.5 |
| 27/04/2021 04:37 | 65.3 | NM | 0.0 | 11 | 4 | 1010 | 1011 | 1 | NM | 25/04/2021 01:17 | 7.63 | 1024 | 7.1 |
| 27/04/2021 06:07 | 64.6 | NM | 0.0 | 11 | 4 | 1009 | 1010 | 1 | NM | 25/04/2021 02:17 | 7.63 | 1024 | 6.6 |
| 27/04/2021 07:37 | 63.9 | NM | 0.0 | 11 | 4 | 1009 | 1009 | 0 | NM | 25/04/2021 03:17 | 7.63 | 1024 | 6.3 |

| Date and Time | $CH_4$ % v/v | $CO_2$ % v/v | $O_2$ % v/v | $H_2S$ ppm/v | CO ppm/v | Borehole Pressure mbar | Atmospheric Pressure mbar | Differential Pressure mbar | Flow Ltr/hr | | Water Level mbgl | Atmospheric Pressure mbar | Temperature °C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 27/04/2021 09:07 | 63.1 | NM | 0.0 | 11 | 4 | 1008 | 1009 | 1 | NM | 25/04/2021 04:17 | 7.64 | 1024 | 6.1 |
| 27/04/2021 10:37 | 63.3 | NM | 0.0 | 11 | 4 | 1007 | 1008 | 1 | NM | 25/04/2021 05:17 | 7.64 | 1024 | 6.0 |
| 27/04/2021 12:07 | 61.9 | NM | 0.0 | 12 | 4 | 1007 | 1007 | 0 | NM | 25/04/2021 06:17 | 7.64 | 1025 | 7.4 |
| 27/04/2021 13:37 | 61.9 | NM | 0.0 | 12 | 4 | 1006 | 1007 | 1 | NM | 25/04/2021 07:17 | 7.64 | 1025 | 9.1 |
| 27/04/2021 15:07 | 61.5 | NM | 0.0 | 12 | 4 | 1005 | 1006 | 1 | NM | 25/04/2021 08:17 | 7.64 | 1025 | 10.7 |
| 27/04/2021 16:37 | 60.7 | 25.2 | 0.0 | 12 | 4 | 1004 | 1005 | 1 | NM | 25/04/2021 09:17 | 7.64 | 1025 | 12.2 |
| 27/04/2021 18:07 | 61.9 | 25.1 | 0.0 | 12 | 4 | 1003 | 1004 | 1 | NM | 25/04/2021 10:17 | 7.64 | 1025 | 13.5 |
| 27/04/2021 19:37 | 61.6 | 25.5 | 0.0 | 12 | 4 | 1003 | 1004 | 1 | NM | 25/04/2021 11:17 | 7.64 | 1025 | 14.7 |
| 27/04/2021 21:07 | 62.7 | 25.3 | 0.0 | 12 | 4 | 1003 | 1004 | 1 | NM | 25/04/2021 12:17 | 7.64 | 1025 | 15.4 |
| 27/04/2021 22:37 | 62.3 | 25.4 | 0.0 | 12 | 4 | 1003 | 1004 | 1 | NM | 25/04/2021 13:17 | 7.64 | 1024 | 16.3 |
| 28/04/2021 00:07 | 62.1 | NM | 0.0 | 11 | 4 | 1002 | 1004 | 2 | NM | 25/04/2021 14:17 | 7.64 | 1024 | 16.5 |
| 28/04/2021 01:37 | 62.4 | NM | 0.0 | 12 | 4 | 1002 | 1003 | 1 | NM | 25/04/2021 15:17 | 7.63 | 1023 | 16.6 |
| 28/04/2021 03:07 | 62.9 | NM | 0.0 | 11 | 4 | 1001 | 1003 | 2 | NM | 25/04/2021 16:17 | 7.64 | 1022 | 16.6 |
| 28/04/2021 04:37 | 62.5 | NM | 0.0 | 11 | 4 | 1000 | 1002 | 2 | NM | 25/04/2021 17:17 | 7.64 | 1022 | 15.7 |
| 28/04/2021 06:07 | 63.0 | NM | 0.0 | 11 | 4 | 1000 | 1002 | 2 | NM | 25/04/2021 18:17 | 7.63 | 1022 | 14.4 |
| 28/04/2021 07:37 | 62.6 | NM | 0.0 | 11 | 4 | 999 | 1001 | 2 | NM | 25/04/2021 19:17 | 7.64 | 1022 | 11.8 |
| 28/04/2021 09:07 | 48.8 | NM | 0.0 | 10 | 4 | 1000 | 1001 | 1 | NM | 25/04/2021 20:17 | 7.64 | 1023 | 10.1 |
| 28/04/2021 10:37 | 60.8 | NM | 0.0 | 11 | 4 | 1000 | 1002 | 2 | NM | 25/04/2021 21:17 | 7.64 | 1023 | 8.7 |
| 28/04/2021 12:07 | 61.7 | NM | 0.0 | 12 | 4 | 1000 | 1001 | 1 | NM | 25/04/2021 22:17 | 7.64 | 1022 | 7.6 |
| 28/04/2021 13:37 | 61.5 | NM | 0.0 | 11 | 4 | 1001 | 1002 | 1 | NM | 25/04/2021 23:17 | 7.64 | 1022 | 6.7 |
| 28/04/2021 15:07 | 61.7 | NM | 0.0 | 12 | 4 | 1001 | 1002 | 1 | NM | 26/04/2021 00:17 | 7.64 | 1022 | 6.0 |
| 28/04/2021 16:37 | 61.7 | NM | 0.0 | 11 | 4 | 1001 | 1002 | 1 | NM | 26/04/2021 01:17 | 7.64 | 1022 | 5.4 |
| 28/04/2021 18:07 | 61.7 | NM | 0.0 | 11 | 4 | 1002 | 1003 | 1 | NM | 26/04/2021 02:17 | 7.63 | 1021 | 4.9 |
| 28/04/2021 19:37 | 63.1 | NM | 0.0 | 11 | 4 | 1002 | 1004 | 2 | NM | 26/04/2021 03:17 | 7.63 | 1021 | 4.5 |
| 28/04/2021 21:07 | 62.8 | NM | 0.0 | 11 | 4 | 1003 | 1004 | 1 | NM | 26/04/2021 04:17 | 7.64 | 1021 | 4.2 |
| 28/04/2021 22:37 | 63.4 | NM | 0.0 | 11 | 4 | 1003 | 1005 | 2 | NM | 26/04/2021 05:17 | 7.63 | 1020 | 4.0 |
| 29/04/2021 00:07 | 63.5 | NM | 0.0 | 11 | 4 | 1004 | 1005 | 1 | NM | 26/04/2021 06:17 | 7.64 | 1020 | 6.0 |
| 29/04/2021 01:37 | 63.6 | NM | 0.0 | 11 | 4 | 1004 | 1006 | 2 | NM | 26/04/2021 07:17 | 7.64 | 1020 | 7.9 |
| 29/04/2021 03:07 | 63.6 | NM | 0.0 | 11 | 4 | 1004 | 1006 | 2 | NM | 26/04/2021 08:17 | 7.64 | 1020 | 8.9 |
| 29/04/2021 04:37 | 63.9 | NM | 0.0 | 11 | 4 | 1005 | 1006 | 1 | NM | 26/04/2021 09:17 | 7.64 | 1020 | 10.8 |
| 29/04/2021 06:07 | 64.6 | NM | 0.0 | 11 | 4 | 1006 | 1007 | 1 | NM | 26/04/2021 10:17 | 7.64 | 1019 | 12.3 |
| 29/04/2021 07:37 | 64.6 | NM | 0.0 | 11 | 4 | 1007 | 1008 | 1 | NM | 26/04/2021 11:17 | 7.63 | 1018 | 13.7 |
| 29/04/2021 09:07 | 63.8 | NM | 0.0 | 11 | 4 | 1007 | 1008 | 1 | NM | 26/04/2021 12:17 | 7.63 | 1017 | 15.0 |
| 29/04/2021 12:01 | 62.0 | 26.3 | 0.2 | 13 | 4 | 1007 | 1009 | 2 | 0.46 | 26/04/2021 13:17 | 7.63 | 1017 | 16.0 |
| 29/04/2021 13:01 | 62.5 | 25.4 | 0.2 | 12 | 4 | 1008 | 1009 | 1 | 0.37 | 26/04/2021 14:17 | 7.63 | 1015 | 16.9 |
| 29/04/2021 14:01 | 62.1 | 25.8 | 0.2 | 13 | 4 | 1008 | 1009 | 1 | 0.59 | 26/04/2021 15:17 | 7.63 | 1015 | 17.3 |
| 29/04/2021 15:01 | 62.5 | 25.6 | 0.2 | 13 | 4 | 1008 | 1009 | 1 | 0.51 | 26/04/2021 16:17 | 7.63 | 1014 | 17.3 |
| 29/04/2021 16:01 | 61.8 | 25.8 | 0.2 | 12 | 4 | 1008 | 1010 | 2 | 0.39 | 26/04/2021 17:17 | 7.63 | 1014 | 16.6 |
| 29/04/2021 17:01 | 61.7 | 25.9 | 0.2 | 13 | 4 | 1008 | 1010 | 2 | 0.42 | 26/04/2021 18:17 | 7.63 | 1013 | 15.1 |
| 29/04/2021 18:01 | 61.2 | 25.6 | 0.2 | 13 | 4 | 1008 | 1010 | 2 | 0.40 | 26/04/2021 19:17 | 7.63 | 1013 | 12.3 |
| 29/04/2021 19:01 | 61.1 | 25.7 | 0.2 | 13 | 4 | 1008 | 1010 | 2 | 0.36 | 26/04/2021 20:17 | 7.63 | 1013 | 10.3 |
| 29/04/2021 20:01 | 62.1 | 25.9 | 0.1 | 13 | 4 | 1009 | 1010 | 1 | 0.34 | 26/04/2021 21:17 | 7.63 | 1013 | 9.1 |
| 29/04/2021 21:01 | 61.6 | 25.2 | 0.1 | 13 | 4 | 1009 | 1011 | 2 | 0.37 | 26/04/2021 22:17 | 7.63 | 1013 | 8.1 |
| 29/04/2021 22:01 | 62.6 | 25.4 | 0.1 | 13 | 4 | 1010 | 1011 | 1 | 0.42 | 26/04/2021 23:17 | 7.63 | 1013 | 7.0 |
| 29/04/2021 23:01 | 62.8 | 25.5 | 0.1 | 13 | 4 | 1010 | 1011 | 1 | 0.34 | 27/04/2021 00:17 | 7.63 | 1012 | 6.1 |
| 30/04/2021 00:01 | 62.7 | 25.2 | 0.1 | 13 | 4 | 1010 | 1011 | 1 | 0.51 | 27/04/2021 01:17 | 7.63 | 1012 | 5.3 |
| 30/04/2021 01:01 | 63.2 | 25.5 | 0.1 | 13 | 4 | 1010 | 1011 | 1 | 0.50 | 27/04/2021 02:17 | 7.63 | 1011 | 4.5 |
| 30/04/2021 02:01 | 62.5 | 25.2 | 0.1 | 13 | 4 | 1010 | 1011 | 1 | 0.49 | 27/04/2021 03:17 | 7.63 | 1011 | 4.0 |
| 30/04/2021 03:01 | 63.6 | 25.4 | 0.1 | 13 | 4 | 1010 | 1011 | 1 | 0.44 | 27/04/2021 04:17 | 7.63 | 1010 | 3.7 |
| 30/04/2021 04:01 | 63.8 | 25.6 | 0.1 | 13 | 4 | 1010 | 1011 | 1 | 0.51 | 27/04/2021 05:17 | 7.63 | 1010 | 3.5 |
| 30/04/2021 05:01 | 63.2 | 25.6 | 0.1 | 13 | 4 | 1010 | 1012 | 2 | 0.30 | 27/04/2021 06:17 | 7.62 | 1010 | 5.9 |
| 30/04/2021 06:01 | 62.5 | 25.7 | 0.1 | 13 | 4 | 1011 | 1012 | 1 | 0.33 | 27/04/2021 07:17 | 7.63 | 1009 | 8.6 |
| 30/04/2021 07:01 | 62.3 | 25.5 | 0.1 | 13 | 4 | 1011 | 1012 | 1 | 0.36 | 27/04/2021 08:17 | 7.63 | 1009 | 11.0 |
| 30/04/2021 08:01 | 61.7 | 25.7 | 0.1 | 13 | 4 | 1011 | 1012 | 1 | 0.46 | 27/04/2021 09:17 | 7.63 | 1009 | 13.2 |
| 30/04/2021 09:01 | 61.7 | 25.9 | 0.1 | 13 | 4 | 1011 | 1012 | 1 | 0.47 | 27/04/2021 10:17 | 7.63 | 1008 | 14.8 |
| 30/04/2021 10:01 | 62.1 | 25.6 | 0.1 | 13 | 4 | 1011 | 1012 | 1 | 0.44 | 27/04/2021 11:17 | 7.63 | 1007 | 15.4 |
| 30/04/2021 11:01 | 62.0 | 25.7 | 0.1 | 13 | 4 | 1011 | 1012 | 1 | 0.38 | 27/04/2021 12:17 | 7.63 | 1007 | 15.9 |
| 30/04/2021 12:01 | 62.2 | 25.7 | 0.1 | 12 | 4 | 1012 | 1012 | 0 | 0.44 | 27/04/2021 13:17 | 7.62 | 1006 | 16.4 |
| 30/04/2021 13:01 | 62.1 | 25.8 | 0.1 | 12 | 4 | 1012 | 1012 | 0 | 0.44 | 27/04/2021 14:17 | 7.63 | 1006 | 16.5 |
| 30/04/2021 14:01 | 61.2 | 25.3 | 0.1 | 12 | 4 | 1012 | 1012 | 0 | 0.71 | 27/04/2021 15:17 | 7.63 | 1005 | 16.3 |
| 30/04/2021 15:01 | 64.3 | 24.9 | 0.1 | 12 | 4 | 1011 | 1012 | 1 | 0.71 | 27/04/2021 16:17 | 7.63 | 1005 | 15.6 |
| 30/04/2021 16:01 | 63.1 | 24.8 | 0.1 | 12 | 4 | 1011 | 1012 | 1 | 0.55 | 27/04/2021 17:17 | 7.62 | 1004 | 14.5 |
| 30/04/2021 17:01 | 62.2 | 25.4 | 0.1 | 12 | 4 | 1012 | 1012 | 0 | 0.45 | 27/04/2021 18:17 | 7.63 | 1004 | 13.6 |
| 30/04/2021 18:01 | 62.9 | 25.6 | 0.1 | 12 | 4 | 1012 | 1012 | 0 | 0.41 | 27/04/2021 19:17 | 7.63 | 1004 | 11.7 |
| 30/04/2021 19:01 | 62.7 | 25.6 | 0.1 | 12 | 4 | 1012 | 1012 | 0 | 0.52 | 27/04/2021 20:17 | 7.63 | 1004 | 10.4 |
| 30/04/2021 20:01 | 62.7 | 25.3 | 0.1 | 12 | 4 | 1012 | 1013 | 1 | 0.41 | 27/04/2021 21:17 | 7.63 | 1004 | 9.8 |
| 30/04/2021 21:01 | 63.0 | 25.4 | 0.1 | 12 | 4 | 1012 | 1013 | 1 | 0.41 | 27/04/2021 22:17 | 7.63 | 1004 | 9.2 |
| 30/04/2021 22:01 | 63.0 | 25.0 | 0.1 | 13 | 4 | 1013 | 1013 | 0 | 0.42 | 27/04/2021 23:17 | 7.63 | 1004 | 8.8 |
| 30/04/2021 23:01 | 63.9 | 25.0 | 0.1 | 12 | 4 | 1013 | 1013 | 0 | 0.46 | 28/04/2021 00:17 | 7.63 | 1003 | 8.8 |
| 01/05/2021 00:01 | 63.7 | 24.8 | 0.1 | 12 | 4 | 1013 | 1013 | 0 | 0.61 | 28/04/2021 01:17 | 7.62 | 1003 | 8.9 |
| 01/05/2021 01:01 | 63.3 | 24.7 | 0.1 | 12 | 4 | 1013 | 1013 | 0 | 0.62 | 28/04/2021 02:17 | 7.63 | 1002 | 8.6 |
| 01/05/2021 02:01 | 64.1 | 25.4 | 0.1 | 12 | 4 | 1012 | 1012 | 0 | 0.57 | 28/04/2021 03:17 | 7.62 | 1002 | 8.3 |
| 01/05/2021 03:01 | 64.2 | 25.1 | 0.1 | 12 | 4 | 1012 | 1012 | 0 | 0.51 | 28/04/2021 04:17 | 7.63 | 1002 | 8.2 |
| 01/05/2021 04:01 | 63.7 | 24.6 | 0.1 | 12 | 4 | 1012 | 1012 | 0 | 0.57 | 28/04/2021 05:17 | 7.63 | 1001 | 7.9 |
| 01/05/2021 05:01 | 63.6 | 25.2 | 0.1 | 12 | 4 | 1013 | 1013 | 0 | 0.42 | 28/04/2021 06:17 | 7.63 | 1001 | 8.2 |
| 01/05/2021 06:01 | 63.1 | 25.5 | 0.1 | 12 | 4 | 1013 | 1013 | 0 | 0.28 | 28/04/2021 07:17 | 7.62 | 1001 | 8.7 |
| 01/05/2021 07:01 | 63.1 | 25.7 | 0.1 | 13 | 4 | 1013 | 1014 | 1 | 0.38 | 28/04/2021 08:17 | 7.63 | 1001 | 10.1 |
| 01/05/2021 08:01 | 62.7 | 25.3 | 0.1 | 13 | 4 | 1013 | 1014 | 1 | 0.48 | 28/04/2021 09:17 | 7.63 | 1001 | 12.3 |
| 01/05/2021 09:01 | 62.4 | 25.2 | 0.1 | 12 | 4 | 1013 | 1013 | 0 | 0.44 | 28/04/2021 10:17 | 7.63 | 1002 | 13.4 |
| 01/05/2021 10:01 | 62.2 | 25.6 | 0.1 | 13 | 4 | 1013 | 1013 | 0 | 0.47 | 28/04/2021 11:17 | 7.63 | 1002 | 12.3 |
| 01/05/2021 11:01 | 61.8 | 25.7 | 0.1 | 12 | 4 | 1013 | 1013 | 0 | 0.43 | 28/04/2021 12:17 | 7.63 | 1002 | 11.0 |
| 01/05/2021 12:01 | 63.0 | 25.5 | 0.1 | 12 | 4 | 1013 | 1013 | 0 | 0.38 | 28/04/2021 13:17 | 7.63 | 1002 | 11.3 |
| 01/05/2021 13:01 | 62.2 | 25.7 | 0.1 | 12 | 4 | 1013 | 1014 | 1 | 0.28 | 28/04/2021 14:17 | 7.63 | 1002 | 11.6 |
| 01/05/2021 14:01 | 63.0 | 25.7 | 0.0 | 12 | 4 | 1013 | 1013 | 0 | 0.58 | 28/04/2021 15:17 | 7.64 | 1003 | 14.1 |
| 01/05/2021 15:01 | 62.8 | 24.8 | 0.1 | 12 | 4 | 1013 | 1014 | 1 | 0.31 | 28/04/2021 16:17 | 7.64 | 1003 | 13.0 |
| 01/05/2021 16:01 | 62.7 | 25.8 | 0.1 | 12 | 4 | 1014 | 1014 | 0 | 0.44 | 28/04/2021 17:17 | 7.64 | 1003 | 10.4 |
| 01/05/2021 17:01 | 63.1 | 24.9 | 0.0 | 12 | 4 | 1014 | 1014 | 0 | 0.40 | 28/04/2021 18:17 | 7.64 | 1003 | 9.5 |
| 01/05/2021 18:01 | 63.0 | 25.0 | 0.0 | 12 | 4 | 1014 | 1014 | 0 | 0.40 | 28/04/2021 19:17 | 7.64 | 1004 | 8.9 |
| 01/05/2021 19:01 | 62.3 | 25.4 | 0.0 | 12 | 4 | 1015 | 1015 | 0 | 0.23 | 28/04/2021 20:17 | 7.64 | 1004 | 8.5 |
| 01/05/2021 20:01 | 62.7 | 25.3 | 0.0 | 12 | 4 | 1015 | 1015 | 0 | 0.37 | 28/04/2021 21:17 | 7.64 | 1005 | 8.0 |
| 01/05/2021 21:01 | 63.6 | 25.3 | 0.0 | 12 | 4 | 1015 | 1015 | 0 | 0.48 | 28/04/2021 22:17 | 7.64 | 1005 | 7.9 |
| 01/05/2021 22:01 | 64.1 | 24.6 | 0.0 | 12 | 4 | 1016 | 1015 | -1 | 0.45 | 28/04/2021 23:17 | 7.64 | 1005 | 7.8 |
| 01/05/2021 23:01 | 63.8 | 24.8 | 0.0 | 12 | 4 | 1016 | 1016 | 0 | 0.29 | 29/04/2021 00:17 | 7.64 | 1005 | 7.3 |
| 02/05/2021 00:01 | 63.3 | 25.3 | 0.0 | 12 | 4 | 1016 | 1016 | 0 | 0.55 | 29/04/2021 01:17 | 7.64 | 1006 | 6.7 |
| 02/05/2021 01:01 | 63.3 | 25.3 | 0.0 | 13 | 4 | 1016 | 1016 | 0 | 0.43 | 29/04/2021 02:17 | 7.64 | 1006 | 6.3 |
| 02/05/2021 02:01 | 63.7 | 24.9 | 0.0 | 12 | 4 | 1017 | 1016 | -1 | 0.34 | 29/04/2021 03:17 | 7.64 | 1006 | 6.6 |
| 02/05/2021 03:01 | 63.1 | 25.3 | 0.0 | 12 | 4 | 1017 | 1016 | -1 | 0.42 | 29/04/2021 04:17 | 7.64 | 1006 | 6.1 |
| 02/05/2021 04:01 | 63.9 | 25.3 | 0.0 | 12 | 4 | 1017 | 1017 | 0 | 0.43 | 29/04/2021 05:17 | 7.65 | 1007 | 5.4 |
| 02/05/2021 05:01 | 63.3 | 25.1 | 0.0 | 12 | 4 | 1018 | 1017 | -1 | 0.23 | 29/04/2021 06:17 | 7.65 | 1008 | 6.6 |
| 02/05/2021 06:01 | 63.4 | 25.7 | 0.0 | 13 | 4 | 1018 | 1018 | 0 | 0.31 | 29/04/2021 07:17 | 7.65 | 1008 | 8.6 |
| 02/05/2021 07:01 | 63.5 | 25.2 | 0.0 | 12 | 4 | 1019 | 1018 | -1 | 0.24 | 29/04/2021 08:17 | 7.65 | 1009 | 10.6 |
| 02/05/2021 08:01 | 63.2 | 25.6 | 0.0 | 13 | 4 | 1019 | 1019 | 0 | 0.49 | 29/04/2021 09:17 | 7.65 | 1009 | 11.0 |
| 02/05/2021 09:01 | 63.3 | 25.2 | 0.0 | 13 | 4 | 1019 | 1019 | 0 | 0.42 | 29/04/2021 10:17 | 7.64 | 1009 | 12.8 |
| 02/05/2021 10:01 | 63.1 | 25.2 | 0.0 | 12 | 4 | 1019 | 1018 | -1 | 0.49 | 29/04/2021 11:17 | 7.64 | 1009 | 13.1 |
| 02/05/2021 11:01 | 62.9 | 25.6 | 0.0 | 12 | 4 | 1019 | 1018 | -1 | 0.35 | 29/04/2021 12:17 | 7.64 | 1009 | 15.1 |
| 02/05/2021 12:01 | 62.7 | 25.9 | 0.0 | 12 | 4 | 1019 | 1018 | -1 | 0.42 | 29/04/2021 13:17 | 7.64 | 1009 | 14.8 |
| 02/05/2021 13:01 | 62.7 | 25.5 | 0.0 | 12 | 4 | 1019 | 1018 | -1 | 0.45 | 29/04/2021 14:17 | 7.64 | 1009 | 14.8 |
| 02/05/2021 14:01 | 62.0 | 25.7 | 0.0 | 12 | 4 | 1019 | 1018 | -1 | 0.47 | 29/04/2021 15:17 | 7.64 | 1009 | 16.8 |
| 02/05/2021 15:01 | 62.6 | 25.3 | 0.0 | 12 | 4 | 1019 | 1018 | -1 | 0.49 | 29/04/2021 16:17 | 7.64 | 1010 | 15.2 |
| 02/05/2021 16:01 | 62.6 | 25.4 | 0.0 | 12 | 4 | 1019 | 1018 | -1 | 0.44 | 29/04/2021 17:17 | 7.64 | 1010 | 12.9 |
| 02/05/2021 17:01 | 62.6 | 25.6 | 0.0 | 12 | 4 | 1019 | 1018 | -1 | 0.51 | 29/04/2021 18:17 | 7.64 | 1010 | 12.6 |
| 02/05/2021 18:01 | 63.4 | 25.4 | 0.0 | 12 | 4 | 1019 | 1018 | -1 | 0.29 | 29/04/2021 19:17 | 7.64 | 1010 | 8.8 |
| 02/05/2021 19:01 | 62.8 | 25.3 | 0.0 | 12 | 4 | 1019 | 1018 | -1 | 0.25 | 29/04/2021 20:17 | 7.64 | 1010 | 6.3 |
| 02/05/2021 20:01 | 62.9 | 26.0 | 0.0 | 12 | 4 | 1020 | 1019 | -1 | 0.33 | 29/04/2021 21:17 | 7.64 | 1011 | 4.9 |
| 02/05/2021 21:01 | 63.2 | 25.8 | 0.0 | 12 | 4 | 1020 | 1019 | -1 | 0.53 | 29/04/2021 22:17 | 7.64 | 1011 | 4.1 |
| 02/05/2021 22:01 | 63.4 | 25.2 | 0.0 | 12 | 4 | 1020 | 1019 | -1 | 0.43 | 29/04/2021 23:17 | 7.64 | 1011 | 3.4 |
| 02/05/2021 23:01 | 63.7 | 25.2 | 0.0 | 12 | 4 | 1020 | 1019 | -1 | 0.55 | 30/04/2021 00:17 | 7.64 | 1011 | 3.0 |
| 03/05/2021 00:01 | 63.7 | 25.0 | 0.0 | 12 | 4 | 1019 | 1019 | 0 | 0.57 | 30/04/2021 01:17 | 7.64 | 1011 | 2.6 |
| 03/05/2021 01:01 | 64.1 | 25.2 | 0.0 | 12 | 4 | 1019 | 1019 | 0 | 0.45 | 30/04/2021 02:17 | 7.64 | 1011 | 2.8 |
| 03/05/2021 02:01 | 64.3 | 25.2 | 0.0 | 12 | 4 | 1019 | 1018 | -1 | 0.58 | 30/04/2021 03:17 | 7.64 | 1011 | 3.1 |
| 03/05/2021 03:01 | 64.7 | 25.4 | 0.0 | 12 | 4 | 1019 | 1018 | -1 | 0.74 | 30/04/2021 04:17 | 7.64 | 1011 | 3.2 |
| 03/05/2021 04:01 | 64.2 | 25.1 | 0.0 | 12 | 4 | 1018 | 1017 | -1 | 0.65 | 30/04/2021 05:17 | 7.64 | 1012 | 3.7 |
| 03/05/2021 05:01 | 64.0 | 25.0 | 0.0 | 12 | 4 | 1018 | 1017 | -1 | 0.43 | 30/04/2021 06:17 | 7.64 | 1012 | 5.0 |
| 03/05/2021 06:01 | 63.7 | 25.2 | 0.0 | 12 | 4 | 1018 | 1017 | -1 | 0.73 | 30/04/2021 07:17 | 7.64 | 1012 | 8.2 |
| 03/05/2021 07:01 | 64.0 | 25.5 | 0.0 | 12 | 4 | 1018 | 1017 | -1 | 0.65 | 30/04/2021 08:17 | 7.64 | 1012 | 11.1 |
| 03/05/2021 08:01 | 62.7 | 25.1 | 0.0 | 12 | 4 | 1017 | 1017 | 0 | 0.57 | 30/04/2021 09:17 | 7.64 | 1012 | 16.0 |

| Date and Time | $CH_4$ % v/v | $CO_2$ % v/v | $O_2$ % v/v | $H_2S$ ppm/v | CO ppm/v | Borehole Pressure mbar | Atmospheric Pressure mbar | Differential Pressure mbar | Flow Ltr/hr | | Water Level mbgl | Atmospheric Pressure mbar | Temperature °C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 03/05/2021 09:01 | 63.5 | 25.4 | 0.0 | 12 | 4 | 1016 | 1016 | 0 | 0.59 | 30/04/2021 10:17 | 7.64 | 1012 | 15.3 |
| 03/05/2021 10:01 | 62.8 | 25.4 | 0.0 | 12 | 4 | 1016 | 1015 | -1 | 0.46 | 30/04/2021 11:17 | 7.64 | 1012 | 13.3 |
| 03/05/2021 11:01 | 62.9 | 25.3 | 0.0 | 12 | 4 | 1015 | 1014 | -1 | 0.54 | 30/04/2021 12:17 | 7.64 | 1012 | 15.3 |
| 03/05/2021 12:01 | 62.8 | 25.3 | 0.0 | 12 | 4 | 1014 | 1013 | -1 | 0.65 | 30/04/2021 13:17 | 7.64 | 1012 | 19.7 |
| 03/05/2021 13:01 | 62.3 | 25.7 | 0.0 | 12 | 4 | 1013 | 1011 | -2 | 0.79 | 30/04/2021 14:17 | 7.64 | 1012 | 13.0 |
| 03/05/2021 14:01 | 62.5 | 25.6 | 0.0 | 12 | 4 | 1011 | 1010 | -1 | 0.85 | 30/04/2021 15:17 | 7.64 | 1012 | 15.0 |
| 03/05/2021 15:01 | 62.7 | 25.1 | 0.0 | 12 | 4 | 1009 | 1008 | -1 | 0.46 | 30/04/2021 16:17 | 7.64 | 1012 | 18.1 |
| 03/05/2021 16:01 | 62.7 | 24.6 | 0.0 | 12 | 4 | 1008 | 1006 | -2 | 1.01 | 30/04/2021 17:17 | 7.64 | 1012 | 14.8 |
| 03/05/2021 17:01 | 62.6 | 25.2 | 0.0 | 12 | 4 | 1006 | 1004 | -2 | 1.16 | 30/04/2021 18:17 | 7.64 | 1012 | 12.0 |
| 03/05/2021 18:01 | 62.3 | 25.0 | 0.0 | 12 | 4 | 1004 | 1003 | -1 | 1.09 | 30/04/2021 19:17 | 7.64 | 1012 | 8.8 |
| 03/05/2021 19:01 | 61.7 | 25.3 | 0.0 | 12 | 4 | 1002 | 1000 | -2 | 1.78 | 30/04/2021 20:17 | 7.64 | 1013 | 6.4 |
| 03/05/2021 20:01 | 62.4 | 25.2 | 0.0 | 12 | 4 | 1000 | 999 | -1 | 0.86 | 30/04/2021 21:17 | 7.64 | 1013 | 4.9 |
| 03/05/2021 21:01 | 60.1 | 25.2 | 0.1 | 12 | 3 | 999 | 997 | -2 | 0.70 | 30/04/2021 22:17 | 7.64 | 1013 | 4.0 |
| 03/05/2021 22:01 | 60.5 | 25.1 | 0.0 | 12 | 4 | 997 | 996 | -1 | 0.86 | 30/04/2021 23:17 | 7.64 | 1013 | 3.2 |
| 03/05/2021 23:01 | 60.7 | 25.6 | 0.0 | 12 | 4 | 997 | 996 | -1 | 0.98 | 01/05/2021 00:17 | 7.64 | 1013 | 2.5 |
| 04/05/2021 00:01 | 62.8 | 24.6 | 0.0 | 12 | 4 | 996 | 995 | -1 | 1.32 | 01/05/2021 01:17 | 7.64 | 1013 | 1.8 |
| 04/05/2021 01:01 | 62.9 | 24.9 | 0.0 | 12 | 4 | 996 | 994 | -2 | 0.80 | 01/05/2021 02:17 | 7.64 | 1012 | 1.1 |
| 04/05/2021 02:01 | 62.8 | 24.4 | 0.0 | 12 | 4 | 995 | 994 | -1 | 0.87 | 01/05/2021 03:17 | 7.64 | 1012 | 0.7 |
| 04/05/2021 03:01 | 62.8 | 24.8 | 0.0 | 12 | 4 | 996 | 995 | -1 | 0.38 | 01/05/2021 04:17 | 7.64 | 1012 | 0.3 |
| 04/05/2021 04:01 | 62.2 | 24.4 | 0.0 | 12 | 4 | 995 | 994 | -1 | 0.61 | 01/05/2021 05:17 | 7.64 | 1013 | 0.7 |
| 04/05/2021 05:01 | 53.4 | 21.6 | 2.7 | 9 | 3 | 997 | 996 | -1 | 0.29 | 01/05/2021 06:17 | 7.64 | 1013 | 2.4 |
| 04/05/2021 06:01 | 59.8 | 23.9 | 0.6 | 12 | 4 | 998 | 997 | -1 | 0.33 | 01/05/2021 07:17 | 7.65 | 1014 | 7.2 |
| 04/05/2021 07:01 | 61.9 | 24.6 | 0.1 | 12 | 4 | 999 | 998 | -1 | 0.34 | 01/05/2021 08:17 | 7.65 | 1014 | 11.3 |
| 04/05/2021 08:01 | 61.8 | 24.5 | 0.3 | 12 | 4 | 1000 | 999 | -1 | 0.37 | 01/05/2021 09:17 | 7.65 | 1013 | 15.8 |
| 04/05/2021 09:01 | 61.1 | 24.5 | 0.3 | 12 | 4 | 1000 | 1000 | 0 | 0.47 | 01/05/2021 10:17 | 7.64 | 1013 | 17.7 |
| 04/05/2021 10:01 | 62.2 | 24.6 | 0.1 | 12 | 4 | 1001 | 1000 | -1 | 0.67 | 01/05/2021 11:17 | 7.64 | 1013 | 12.7 |
| 04/05/2021 11:01 | 62.0 | 24.8 | 0.0 | 12 | 4 | 1002 | 1001 | -1 | 0.61 | 01/05/2021 12:17 | 7.64 | 1013 | 11.3 |
| 04/05/2021 12:01 | 61.2 | 24.9 | 0.4 | 12 | 4 | 1002 | 1001 | -1 | 0.58 | 01/05/2021 13:17 | 7.65 | 1014 | 10.4 |
| 04/05/2021 13:01 | 61.2 | 24.8 | 0.1 | 12 | 4 | 1003 | 1001 | -2 | 0.30 | 01/05/2021 14:17 | 7.65 | 1013 | 11.8 |
| 04/05/2021 14:01 | 61.9 | 25.0 | 0.0 | 12 | 4 | 1003 | 1001 | -2 | 0.98 | 01/05/2021 15:17 | 7.65 | 1014 | 13.6 |
| 04/05/2021 15:01 | 62.5 | 24.7 | 0.0 | 12 | 4 | 1003 | 1001 | -2 | 0.54 | 01/05/2021 16:17 | 7.65 | 1014 | 11.9 |
| 04/05/2021 16:01 | 59.8 | 24.0 | 0.8 | 11 | 3 | 1003 | 1002 | -1 | 0.40 | 01/05/2021 17:17 | 7.65 | 1014 | 10.5 |
| 04/05/2021 17:01 | 61.6 | 24.9 | 0.0 | 12 | 4 | 1003 | 1002 | -1 | 0.66 | 01/05/2021 18:17 | 7.65 | 1014 | 11.5 |
| 04/05/2021 18:01 | 63.0 | 25.0 | 0.0 | 12 | 4 | 1004 | 1002 | -2 | 0.77 | 01/05/2021 19:17 | 7.65 | 1015 | 9.1 |
| 04/05/2021 19:01 | 62.6 | 25.0 | 0.0 | 12 | 4 | 1004 | 1003 | -1 | 0.78 | 01/05/2021 20:17 | 7.65 | 1015 | 6.9 |
| 04/05/2021 20:01 | 62.6 | 24.7 | 0.0 | 12 | 4 | 1005 | 1004 | -1 | 0.26 | 01/05/2021 21:17 | 7.65 | 1015 | 6.4 |
| 04/05/2021 21:01 | 62.7 | 25.3 | 0.0 | 12 | 4 | 1005 | 1004 | -1 | 0.44 | 01/05/2021 22:17 | 7.65 | 1015 | 6.1 |
| 04/05/2021 22:01 | 62.2 | 24.6 | 0.0 | 12 | 4 | 1005 | 1004 | -1 | 0.43 | 01/05/2021 23:17 | 7.65 | 1016 | 4.7 |
| 04/05/2021 23:01 | 62.5 | 24.5 | 0.0 | 12 | 4 | 1005 | 1004 | -1 | 0.41 | 02/05/2021 00:17 | 7.65 | 1016 | 3.4 |
| 05/05/2021 00:01 | 62.3 | 24.6 | 0.0 | 12 | 4 | 1005 | 1004 | -1 | 0.71 | 02/05/2021 01:17 | 7.65 | 1016 | 2.5 |
| 05/05/2021 01:01 | 62.6 | 24.5 | 0.0 | 12 | 4 | 1006 | 1004 | -2 | 0.32 | 02/05/2021 02:17 | 7.65 | 1016 | 1.8 |
| 05/05/2021 02:01 | 62.5 | 24.6 | 0.0 | 12 | 4 | 1006 | 1004 | -2 | 0.50 | 02/05/2021 03:17 | 7.65 | 1016 | 1.2 |
| 05/05/2021 03:01 | 62.3 | 24.6 | 0.0 | 12 | 4 | 1006 | 1004 | -2 | 0.35 | 02/05/2021 04:17 | 7.65 | 1017 | 1.1 |
| 05/05/2021 04:01 | 62.6 | 24.6 | 0.0 | 12 | 4 | 1006 | 1005 | -1 | 0.34 | 02/05/2021 05:17 | 7.66 | 1017 | 1.5 |
| 05/05/2021 05:01 | 62.4 | 24.9 | 0.0 | 12 | 4 | 1007 | 1006 | -1 | 0.24 | 02/05/2021 06:17 | 7.66 | 1018 | 3.2 |
| 05/05/2021 06:01 | 62.5 | 24.8 | 0.0 | 12 | 4 | 1007 | 1007 | 0 | 0.38 | 02/05/2021 07:17 | 7.66 | 1018 | 6.5 |
| 05/05/2021 07:01 | 62.5 | 24.6 | 0.0 | 12 | 4 | 1008 | 1007 | -1 | 0.29 | 02/05/2021 08:17 | 7.66 | 1019 | 10.9 |
| 05/05/2021 08:01 | 62.7 | 24.6 | 0.0 | 12 | 4 | 1008 | 1007 | -1 | 0.24 | 02/05/2021 09:17 | 7.66 | 1019 | 15.0 |
| 05/05/2021 09:01 | 62.8 | 24.4 | 0.0 | 12 | 4 | 1008 | 1007 | -1 | 0.34 | 02/05/2021 10:17 | 7.66 | 1018 | 18.6 |
| 05/05/2021 10:01 | 62.8 | 25.4 | 0.0 | 12 | 4 | 1009 | 1008 | -1 | 0.40 | 02/05/2021 11:17 | 7.66 | 1018 | 18.9 |
| 05/05/2021 11:01 | 62.8 | 24.8 | 0.0 | 12 | 4 | 1009 | 1008 | -1 | 0.43 | 02/05/2021 12:17 | 7.66 | 1018 | 15.6 |
| 05/05/2021 12:01 | 63.3 | 25.2 | 0.0 | 12 | 4 | 1009 | 1008 | -1 | 0.67 | 02/05/2021 13:17 | 7.65 | 1018 | 15.4 |
| 05/05/2021 13:01 | 62.3 | 24.8 | 0.1 | 12 | 4 | 1009 | 1008 | -1 | 0.57 | 02/05/2021 14:17 | 7.66 | 1018 | 17.5 |
| 05/05/2021 14:01 | 61.9 | 25.0 | 0.2 | 11 | 4 | 1010 | 1008 | -2 | 1.04 | 02/05/2021 15:17 | 7.66 | 1018 | 19.8 |
| 05/05/2021 15:01 | 62.3 | 24.9 | 0.0 | 12 | 4 | 1009 | 1008 | -1 | 0.85 | 02/05/2021 16:17 | 7.65 | 1018 | 16.7 |
| 05/05/2021 16:01 | 63.0 | 24.9 | 0.0 | 12 | 4 | 1009 | 1007 | -2 | 0.56 | 02/05/2021 17:17 | 7.66 | 1018 | 14.1 |
| 05/05/2021 17:01 | 41.9 | 18.6 | 6.3 | 0 | 0 | 1009 | 1008 | -1 | 1.04 | 02/05/2021 18:17 | 7.66 | 1018 | 12.5 |
| 05/05/2021 18:01 | 62.6 | 25.2 | 0.1 | 12 | 4 | 1009 | 1008 | -1 | 0.71 | 02/05/2021 19:17 | 7.66 | 1018 | 10.0 |
| 05/05/2021 19:01 | 62.9 | 24.9 | 0.0 | 11 | 4 | 1009 | 1008 | -1 | 0.50 | 02/05/2021 20:17 | 7.66 | 1019 | 7.5 |
| 05/05/2021 20:01 | 63.2 | 25.2 | 0.0 | 12 | 4 | 1009 | 1008 | -1 | 0.39 | 02/05/2021 21:17 | 7.66 | 1019 | 7.9 |
| 05/05/2021 21:01 | 63.4 | 24.7 | 0.0 | 12 | 4 | 1009 | 1008 | -1 | 0.32 | 02/05/2021 22:17 | 7.66 | 1019 | 7.1 |
| 05/05/2021 22:01 | 64.0 | 24.6 | 0.0 | 12 | 4 | 1009 | 1007 | -2 | 0.62 | 02/05/2021 23:17 | 7.66 | 1019 | 5.6 |
| 05/05/2021 23:01 | 63.8 | 24.5 | 0.0 | 12 | 4 | 1009 | 1007 | -2 | 0.66 | 03/05/2021 00:17 | 7.66 | 1019 | 4.6 |
| 06/05/2021 00:01 | 63.2 | 24.8 | 0.0 | 12 | 4 | 1008 | 1007 | -1 | 0.75 | 03/05/2021 01:17 | 7.66 | 1019 | 3.8 |
| 06/05/2021 01:01 | 64.0 | 24.5 | 0.0 | 12 | 4 | 1008 | 1006 | -2 | 0.98 | 03/05/2021 02:17 | 7.66 | 1018 | 3.2 |
| 06/05/2021 02:01 | 64.4 | 24.3 | 0.0 | 12 | 4 | 1007 | 1005 | -2 | 0.68 | 03/05/2021 03:17 | 7.66 | 1018 | 3.3 |
| 06/05/2021 03:01 | 64.1 | 24.5 | 0.0 | 12 | 4 | 1006 | 1005 | -1 | 0.83 | 03/05/2021 04:17 | 7.66 | 1017 | 3.1 |
| 06/05/2021 04:01 | 64.0 | 24.3 | 0.0 | 12 | 4 | 1006 | 1004 | -2 | 1.00 | 03/05/2021 05:17 | 7.66 | 1017 | 3.2 |
| 06/05/2021 05:01 | 64.6 | 24.7 | 0.0 | 12 | 4 | 1005 | 1004 | -1 | 0.84 | 03/05/2021 06:17 | 7.66 | 1017 | 5.5 |
| 06/05/2021 06:01 | 63.7 | 24.4 | 0.0 | 12 | 4 | 1005 | 1004 | -1 | 0.69 | 03/05/2021 07:17 | 7.66 | 1017 | 9.5 |
| 06/05/2021 07:01 | 63.5 | 25.0 | 0.0 | 12 | 4 | 1005 | 1004 | -1 | 0.58 | 03/05/2021 08:17 | 7.66 | 1017 | 12.0 |
| 06/05/2021 08:01 | 63.5 | 24.8 | 0.0 | 12 | 4 | 1004 | 1003 | -1 | 0.60 | 03/05/2021 09:17 | 7.65 | 1016 | 14.8 |
| 06/05/2021 09:01 | 62.6 | 24.9 | 0.0 | 12 | 4 | 1004 | 1003 | -1 | 0.38 | 03/05/2021 10:17 | 7.65 | 1015 | 16.8 |
| 06/05/2021 10:01 | 63.0 | 24.8 | 0.0 | 12 | 4 | 1004 | 1003 | -1 | 0.36 | 03/05/2021 11:17 | 7.65 | 1014 | 18.3 |
| 06/05/2021 11:01 | 62.4 | 25.2 | 0.0 | 12 | 4 | 1004 | 1003 | -1 | 0.43 | 03/05/2021 12:17 | 7.65 | 1013 | 17.2 |
| 06/05/2021 12:01 | 62.5 | 24.7 | 0.0 | 12 | 4 | 1004 | 1003 | -1 | 0.41 | 03/05/2021 13:17 | 7.65 | 1011 | 16.2 |
| 06/05/2021 13:01 | 62.0 | 24.9 | 0.0 | 12 | 4 | 1004 | 1003 | -1 | 0.53 | 03/05/2021 14:17 | 7.64 | 1010 | 14.8 |
| 06/05/2021 14:01 | 62.7 | 24.9 | 0.0 | 12 | 4 | 1005 | 1003 | -2 | 0.42 | 03/05/2021 15:17 | 7.64 | 1008 | 13.4 |
| 06/05/2021 15:01 | 62.4 | 24.9 | 0.0 | 12 | 4 | 1005 | 1003 | -2 | 0.34 | 03/05/2021 16:17 | 7.64 | 1006 | 12.5 |
| 06/05/2021 16:01 | 62.8 | 25.0 | 0.1 | 12 | 4 | 1005 | 1004 | -1 | 0.60 | 03/05/2021 17:17 | 7.63 | 1004 | 11.1 |
| 06/05/2021 17:01 | 62.0 | 25.2 | 0.0 | 12 | 4 | 1006 | 1005 | -1 | 0.22 | 03/05/2021 18:17 | 7.63 | 1003 | 9.7 |
| 06/05/2021 18:01 | 59.7 | 24.6 | 0.7 | 9 | 0 | 1006 | 1005 | -1 | 0.12 | 03/05/2021 19:17 | 7.63 | 1000 | 9.3 |
| 06/05/2021 19:01 | 62.3 | 24.6 | 0.1 | 12 | 4 | 1007 | 1006 | -1 | 0.13 | 03/05/2021 20:17 | 7.63 | 999 | 9.2 |
| 06/05/2021 20:01 | 61.9 | 24.6 | 0.1 | 12 | 4 | 1008 | 1007 | -1 | 0.17 | 03/05/2021 21:17 | 7.63 | 997 | 9.1 |
| 06/05/2021 21:01 | 63.1 | 24.9 | 0.0 | 12 | 4 | 1009 | 1007 | -2 | 0.27 | 03/05/2021 22:17 | 7.62 | 996 | 9.4 |
| 06/05/2021 22:01 | 63.3 | 24.8 | 0.0 | 12 | 4 | 1009 | 1008 | -1 | 0.21 | 03/05/2021 23:17 | 7.63 | 996 | 9.6 |
| 06/05/2021 23:01 | 63.2 | 24.4 | 0.0 | 12 | 4 | 1010 | 1009 | -1 | 0.22 | 04/05/2021 00:17 | 7.63 | 995 | 9.2 |
| 07/05/2021 00:01 | 63.3 | 24.4 | 0.0 | 12 | 4 | 1011 | 1009 | -2 | 0.35 | 04/05/2021 01:17 | 7.63 | 994 | 8.7 |
| 07/05/2021 01:01 | 63.2 | 24.1 | 0.0 | 12 | 4 | 1011 | 1010 | -1 | 0.25 | 04/05/2021 02:17 | 7.63 | 994 | 8.3 |
| 07/05/2021 02:01 | 63.8 | 24.6 | 0.0 | 12 | 4 | 1012 | 1011 | -1 | 0.25 | 04/05/2021 03:17 | 7.63 | 995 | 8.4 |
| 07/05/2021 03:01 | 63.6 | 24.3 | 0.0 | 12 | 4 | 1013 | 1011 | -2 | 0.45 | 04/05/2021 04:17 | 7.63 | 994 | 8.1 |
| 07/05/2021 04:01 | 63.9 | 24.5 | 0.0 | 12 | 4 | 1013 | 1012 | -1 | 0.22 | 04/05/2021 05:17 | 7.64 | 996 | 7.9 |
| 07/05/2021 05:01 | 63.8 | 24.8 | 0.0 | 12 | 4 | 1014 | 1012 | -2 | 0.27 | 04/05/2021 06:17 | 7.64 | 997 | 9.4 |
| 07/05/2021 06:01 | 64.3 | 24.9 | 0.0 | 12 | 4 | 1015 | 1013 | -2 | 0.36 | 04/05/2021 07:17 | 7.64 | 998 | 11.8 |
| 07/05/2021 07:01 | 64.3 | 24.8 | 0.0 | 12 | 4 | 1015 | 1014 | -1 | 0.24 | 04/05/2021 08:17 | 7.64 | 999 | 14.3 |
| 07/05/2021 08:01 | 64.6 | 24.7 | 0.1 | 12 | 4 | 1015 | 1014 | -1 | 0.16 | 04/05/2021 09:17 | 7.65 | 1000 | 14.7 |
| 07/05/2021 09:01 | 63.9 | 25.2 | 0.1 | 12 | 4 | 1016 | 1015 | -1 | 0.36 | 04/05/2021 10:17 | 7.65 | 1000 | 16.7 |
| 07/05/2021 10:01 | 63.6 | 24.7 | 0.1 | 12 | 4 | 1016 | 1015 | -1 | 0.43 | 04/05/2021 11:17 | 7.65 | 1001 | 18.1 |
| 07/05/2021 11:01 | 63.8 | 25.3 | 0.1 | 12 | 4 | 1016 | 1015 | -1 | 0.04 | 04/05/2021 12:17 | 7.65 | 1001 | 16.9 |
| 07/05/2021 12:01 | 63.6 | 25.2 | 0.1 | 12 | 4 | 1017 | 1015 | -2 | 0.01 | 04/05/2021 13:17 | 7.65 | 1001 | 18.2 |
| 07/05/2021 13:01 | 63.2 | 25.3 | 0.1 | 11 | 4 | 1017 | 1015 | -2 | 0.16 | 04/05/2021 14:17 | 7.65 | 1001 | 20.2 |
| 07/05/2021 14:01 | 63.5 | 25.0 | 0.1 | 11 | 4 | 1017 | 1015 | -2 | 0.30 | 04/05/2021 15:17 | 7.65 | 1001 | 20.9 |
| 07/05/2021 15:01 | 63.3 | 24.7 | 0.1 | 11 | 4 | 1016 | 1014 | -2 | 0.73 | 04/05/2021 16:17 | 7.65 | 1002 | 18.4 |
| 07/05/2021 16:01 | 63.5 | 25.2 | 0.1 | 11 | 4 | 1016 | 1014 | -2 | 0.19 | 04/05/2021 17:17 | 7.65 | 1002 | 16.3 |
| 07/05/2021 17:01 | 63.4 | 25.4 | 0.1 | 11 | 4 | 1016 | 1014 | -2 | 0.46 | 04/05/2021 18:17 | 7.65 | 1002 | 13.4 |
| 07/05/2021 18:01 | 63.5 | 25.1 | 0.1 | 12 | 4 | 1016 | 1014 | -2 | 0.42 | 04/05/2021 19:17 | 7.65 | 1003 | 10.6 |
| 07/05/2021 19:01 | 63.9 | 25.2 | 0.1 | 12 | 4 | 1015 | 1014 | -1 | 0.61 | 04/05/2021 20:17 | 7.66 | 1004 | 7.8 |
| 07/05/2021 20:01 | 63.7 | 25.3 | 0.1 | 12 | 4 | 1015 | 1013 | -2 | 0.51 | 04/05/2021 21:17 | 7.66 | 1004 | 6.7 |
| 07/05/2021 21:01 | 64.1 | 25.2 | 0.1 | 12 | 4 | 1015 | 1013 | -2 | 0.79 | 04/05/2021 22:17 | 7.66 | 1004 | 6.1 |
| 07/05/2021 22:01 | 64.6 | 25.2 | 0.1 | 12 | 4 | 1014 | 1012 | -2 | 0.71 | 04/05/2021 23:17 | 7.66 | 1004 | 5.5 |
| 07/05/2021 23:01 | 63.8 | 25.0 | 0.1 | 12 | 4 | 1013 | 1011 | -2 | 0.77 | 05/05/2021 00:17 | 7.66 | 1004 | 4.6 |
| 08/05/2021 00:01 | 63.6 | 25.2 | 0.1 | 12 | 4 | 1012 | 1010 | -2 | 0.88 | 05/05/2021 01:17 | 7.66 | 1004 | 3.9 |
| 08/05/2021 01:01 | 63.6 | 24.9 | 0.1 | 12 | 4 | 1011 | 1009 | -2 | 0.68 | 05/05/2021 02:17 | 7.66 | 1004 | 3.3 |
| 08/05/2021 02:01 | 62.9 | 25.2 | 0.1 | 12 | 4 | 1010 | 1008 | -2 | 0.65 | 05/05/2021 03:17 | 7.66 | 1004 | 3.0 |
| 08/05/2021 03:01 | 63.6 | 25.2 | 0.1 | 12 | 4 | 1009 | 1007 | -2 | 0.87 | 05/05/2021 04:17 | 7.66 | 1005 | 2.7 |
| 08/05/2021 04:01 | 64.3 | 24.9 | 0.1 | 12 | 4 | 1007 | 1005 | -2 | 1.00 | 05/05/2021 05:17 | 7.66 | 1006 | 3.0 |
| 08/05/2021 05:01 | 63.2 | 24.9 | 0.1 | 12 | 4 | 1006 | 1004 | -2 | 0.79 | 05/05/2021 06:17 | 7.66 | 1007 | 7.1 |
| 08/05/2021 06:01 | 63.1 | 24.9 | 0.1 | 12 | 4 | 1005 | 1003 | -2 | 0.51 | 05/05/2021 07:17 | 7.67 | 1007 | 10.6 |
| 08/05/2021 07:01 | 63.1 | 25.0 | 0.1 | 12 | 3 | 1004 | 1002 | -2 | 0.38 | 05/05/2021 08:17 | 7.67 | 1007 | 13.6 |
| 08/05/2021 08:01 | 62.0 | 25.0 | 0.2 | 12 | 4 | 1004 | 1002 | -2 | 0.17 | 05/05/2021 09:17 | 7.66 | 1007 | 15.7 |
| 08/05/2021 09:01 | 62.4 | 25.2 | 0.1 | 12 | 4 | 1003 | 1002 | -1 | 0.41 | 05/05/2021 10:17 | 7.66 | 1008 | 16.2 |
| 08/05/2021 10:01 | 59.0 | 24.3 | 1.1 | 9 | 3 | 1003 | 1002 | -1 | 0.32 | 05/05/2021 11:17 | 7.66 | 1008 | 17.1 |
| 08/05/2021 11:01 | 62.2 | 24.7 | 0.2 | 11 | 4 | 1003 | 1001 | -2 | 0.22 | 05/05/2021 12:17 | 7.66 | 1008 | 17.8 |
| 08/05/2021 12:01 | 62.4 | 25.2 | 0.2 | 12 | 4 | 1003 | 1002 | -1 | 0.18 | 05/05/2021 13:17 | 7.66 | 1008 | 16.6 |
| 08/05/2021 13:01 | 61.1 | 24.6 | 0.5 | 11 | 4 | 1003 | 1002 | -1 | 0.27 | 05/05/2021 14:17 | 7.66 | 1008 | 12.6 |
| 08/05/2021 14:01 | 62.1 | 24.9 | 0.1 | 12 | 4 | 1003 | 1002 | -1 | 0.38 | 05/05/2021 15:17 | 7.66 | 1008 | 14.8 |

| Date and Time | $CH_4$ % v/v | $CO_2$ % v/v | $O_2$ % v/v | $H_2S$ ppm/v | CO ppm/v | Borehole Pressure mbar | Atmospheric Pressure mbar | Differential Pressure mbar | Flow Ltr/hr | | Water Level mbgl | Atmospheric Pressure mbar | Temperature °C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 08/05/2021 15:01 | 62.1 | 25.0 | 0.2 | 12 | 4 | 1003 | 1001 | -2 | 0.62 | 05/05/2021 16:17 | 7.66 | 1007 | 15.2 |
| 08/05/2021 16:01 | 62.2 | 25.2 | 0.1 | 12 | 4 | 1003 | 1001 | -2 | 0.45 | 05/05/2021 17:17 | 7.66 | 1008 | 11.4 |
| 08/05/2021 17:01 | 62.3 | 25.3 | 0.1 | 12 | 4 | 1003 | 1001 | -2 | 0.50 | 05/05/2021 18:17 | 7.66 | 1008 | 10.0 |
| 08/05/2021 18:01 | 61.9 | 24.6 | 0.1 | 12 | 4 | 1002 | 1000 | -2 | 0.45 | 05/05/2021 19:17 | 7.66 | 1008 | 8.5 |
| 08/05/2021 19:01 | 62.4 | 25.3 | 0.1 | 12 | 4 | 1002 | 1000 | -2 | 0.33 | 05/05/2021 20:17 | 7.66 | 1008 | 6.3 |
| 08/05/2021 20:01 | 61.9 | 24.7 | 0.1 | 12 | 4 | 1002 | 1000 | -2 | 0.14 | 05/05/2021 21:17 | 7.66 | 1008 | 5.1 |
| 08/05/2021 21:01 | 62.1 | 24.5 | 0.1 | 12 | 4 | 1001 | 1000 | -1 | 0.44 | 05/05/2021 22:17 | 7.66 | 1007 | 4.4 |
| 08/05/2021 22:01 | 63.5 | 25.0 | 0.1 | 12 | 4 | 1001 | 999 | -2 | 0.48 | 05/05/2021 23:17 | 7.66 | 1007 | 3.6 |
| 08/05/2021 23:01 | 64.0 | 24.5 | 0.1 | 12 | 4 | 1000 | 998 | -2 | 0.38 | 06/05/2021 00:17 | 7.66 | 1007 | 3.0 |
| 09/05/2021 00:01 | 63.6 | 24.5 | 0.1 | 12 | 4 | 999 | 997 | -2 | 0.60 | 06/05/2021 01:17 | 7.66 | 1006 | 2.4 |
| 09/05/2021 01:01 | 62.3 | 24.4 | 0.1 | 12 | 4 | 999 | 997 | -2 | 0.70 | 06/05/2021 02:17 | 7.66 | 1005 | 2.0 |
| 09/05/2021 02:01 | 62.5 | 24.7 | 0.1 | 12 | 4 | 998 | 996 | -2 | 0.52 | 06/05/2021 03:17 | 7.65 | 1005 | 1.2 |
| 09/05/2021 03:01 | 62.0 | 24.8 | 0.1 | 12 | 4 | 998 | 996 | -2 | 0.43 | 06/05/2021 04:17 | 7.65 | 1004 | 0.7 |
| 09/05/2021 04:01 | 62.7 | 24.6 | 0.1 | 12 | 4 | 997 | 995 | -2 | 0.90 | 06/05/2021 05:17 | 7.65 | 1004 | 1.2 |
| 09/05/2021 05:01 | 60.4 | 24.4 | 0.6 | 12 | 4 | 997 | 995 | -2 | 0.61 | 06/05/2021 06:17 | 7.66 | 1004 | 3.2 |
| 09/05/2021 06:01 | 61.3 | 24.6 | 0.2 | 12 | 4 | 997 | 995 | -2 | 0.66 | 06/05/2021 07:17 | 7.66 | 1004 | 8.5 |
| 09/05/2021 07:01 | 62.0 | 24.8 | 0.1 | 12 | 4 | 997 | 995 | -2 | 0.41 | 06/05/2021 08:17 | 7.66 | 1003 | 14.0 |
| 09/05/2021 08:01 | 62.1 | 25.0 | 0.1 | 12 | 4 | 996 | 995 | -1 | 0.53 | 06/05/2021 09:17 | 7.66 | 1003 | 13.0 |
| 09/05/2021 09:01 | 61.7 | 24.6 | 0.1 | 12 | 4 | 996 | 994 | -2 | 0.24 | 06/05/2021 10:17 | 7.66 | 1003 | 13.8 |
| 09/05/2021 10:01 | 54.3 | 22.8 | 2.5 | 8 | 3 | 996 | 995 | -1 | -0.02 | 06/05/2021 11:17 | 7.66 | 1003 | 17.7 |
| 09/05/2021 11:01 | 61.0 | 24.5 | 0.3 | 13 | 4 | 996 | 995 | -1 | 0.49 | 06/05/2021 12:17 | 7.66 | 1003 | 18.2 |
| 09/05/2021 12:01 | 61.2 | 24.3 | 0.2 | 12 | 4 | 996 | 994 | -2 | 0.14 | 06/05/2021 13:17 | 7.66 | 1003 | 18.6 |
| 09/05/2021 13:01 | 61.8 | 24.7 | 0.2 | 12 | 4 | 996 | 994 | -2 | 0.70 | 06/05/2021 14:17 | 7.66 | 1003 | 17.1 |
| 09/05/2021 14:01 | 58.0 | 23.2 | 1.2 | 11 | 4 | 996 | 994 | -2 | 0.30 | 06/05/2021 15:17 | 7.66 | 1003 | 18.0 |
| 09/05/2021 15:01 | 61.5 | 24.8 | 0.2 | 12 | 4 | 996 | 994 | -2 | 0.34 | 06/05/2021 16:17 | 7.66 | 1004 | 17.9 |
| 09/05/2021 16:01 | 61.6 | 24.6 | 0.2 | 12 | 4 | 995 | 993 | -2 | 0.69 | 06/05/2021 17:17 | 7.66 | 1005 | 19.7 |
| 09/05/2021 17:01 | 61.6 | 24.5 | 0.2 | 12 | 4 | 994 | 993 | -1 | 0.64 | 06/05/2021 18:17 | 7.67 | 1005 | 16.4 |
| 09/05/2021 18:01 | 58.6 | 23.7 | 1.1 | 14 | 4 | 995 | 993 | -2 | 0.89 | 06/05/2021 19:17 | 7.67 | 1006 | 12.8 |
| 09/05/2021 19:01 | 61.5 | 24.7 | 0.2 | 12 | 4 | 995 | 993 | -2 | 0.48 | 06/05/2021 20:17 | 7.67 | 1007 | 8.1 |
| 09/05/2021 20:01 | 61.5 | 24.8 | 0.2 | 12 | 4 | 995 | 993 | -2 | 0.56 | 06/05/2021 21:17 | 7.67 | 1007 | 6.2 |
| 09/05/2021 21:01 | 61.5 | 24.8 | 0.2 | 12 | 4 | 994 | 993 | -1 | 1.13 | 06/05/2021 22:17 | 7.67 | 1008 | 5.7 |
| 09/05/2021 22:01 | 45.4 | 18.9 | 5.3 | 12 | 4 | 995 | 993 | -2 | 0.52 | 06/05/2021 23:17 | 7.67 | 1009 | 5.0 |
| 09/05/2021 23:01 | 61.3 | 24.8 | 0.3 | 11 | 4 | 995 | 994 | -1 | 0.29 | 07/05/2021 00:17 | 7.67 | 1009 | 4.2 |
| 10/05/2021 00:01 | 61.7 | 24.5 | 0.2 | 10 | 4 | 995 | 994 | -1 | 0.60 | 07/05/2021 01:17 | 7.68 | 1010 | 3.7 |
| 10/05/2021 01:01 | 62.5 | 25.3 | 0.2 | 10 | 4 | 995 | 994 | -1 | 0.78 | 07/05/2021 02:17 | 7.68 | 1011 | 2.9 |
| 10/05/2021 02:01 | 62.5 | 24.7 | 0.3 | 11 | 4 | 995 | 994 | -1 | 0.27 | 07/05/2021 03:17 | 7.68 | 1011 | 2.3 |
| 10/05/2021 03:01 | 56.2 | 23.1 | 1.8 | 10 | 4 | 995 | 994 | -1 | -0.09 | 07/05/2021 04:17 | 7.68 | 1012 | 1.7 |
| 10/05/2021 04:01 | 62.0 | 23.9 | 0.5 | 12 | 4 | 995 | 995 | 0 | 0.07 | 07/05/2021 05:17 | 7.68 | 1012 | 2.1 |
| 10/05/2021 05:01 | 62.2 | 24.2 | 0.6 | 12 | 4 | 996 | 995 | -1 | 0.33 | 07/05/2021 06:17 | 7.68 | 1013 | 7.0 |
| 10/05/2021 06:01 | 58.8 | 23.5 | 1.5 | 11 | 4 | 996 | 995 | -1 | 0.16 | 07/05/2021 07:17 | 7.69 | 1014 | 11.0 |
| 10/05/2021 07:01 | 61.8 | 24.1 | 0.8 | 12 | 4 | 996 | 996 | 0 | 0.05 | 07/05/2021 08:17 | 7.69 | 1014 | 14.9 |
| 10/05/2021 08:01 | 56.0 | 22.7 | 2.1 | 11 | 4 | 997 | 996 | -1 | 0.16 | 07/05/2021 09:17 | 7.68 | 1015 | 17.7 |
| 10/05/2021 09:01 | 46.0 | 19.5 | 4.3 | 10 | 4 | 998 | 997 | -1 | 0.06 | 07/05/2021 10:17 | 7.68 | 1015 | 20.0 |
| 10/05/2021 10:01 | 28.9 | 13.5 | 7.2 | 10 | 4 | 998 | 998 | 0 | -0.24 | 07/05/2021 11:17 | 7.68 | 1015 | 20.6 |
| 10/05/2021 11:01 | 15.9 | 7.4 | 12.0 | 13 | 4 | 999 | 999 | 0 | -0.24 | 07/05/2021 12:17 | 7.68 | 1015 | 19.9 |
| 10/05/2021 12:01 | 6.1 | 2.5 | 17.9 | 15 | 4 | 1000 | 999 | -1 | -0.16 | 07/05/2021 13:17 | 7.68 | 1015 | 19.3 |
| 10/05/2021 13:01 | 3.6 | 1.4 | 18.4 | 14 | 4 | 1001 | 1000 | -1 | -0.13 | 07/05/2021 14:17 | 7.68 | 1015 | 21.6 |
| 10/05/2021 14:01 | 2.5 | 1.0 | 19.1 | 14 | 4 | 1001 | 1000 | -1 | -0.12 | 07/05/2021 15:17 | 7.68 | 1014 | 21.2 |
| 10/05/2021 15:01 | 4.5 | 1.9 | 18.7 | 13 | 4 | 1001 | 1001 | 0 | -0.08 | 07/05/2021 16:17 | 7.68 | 1014 | 17.4 |
| 10/05/2021 16:01 | 17.8 | 7.2 | 14.5 | 13 | 4 | 1001 | 1001 | 0 | 0.02 | 07/05/2021 17:17 | 7.68 | 1014 | 16.0 |
| 10/05/2021 17:01 | 35.7 | 13.8 | 9.0 | 12 | 4 | 1002 | 1001 | -1 | 0.15 | 07/05/2021 18:17 | 7.68 | 1014 | 13.6 |
| 10/05/2021 18:01 | 53.0 | 19.9 | 3.7 | 11 | 4 | 1002 | 1001 | -1 | 0.14 | 07/05/2021 19:17 | 7.68 | 1014 | 11.3 |
| 10/05/2021 19:01 | 55.0 | 20.0 | 3.2 | 11 | 4 | 1002 | 1002 | 0 | 0.23 | 07/05/2021 20:17 | 7.68 | 1013 | 9.9 |
| 10/05/2021 20:01 | 61.5 | 21.9 | 1.5 | 10 | 4 | 1003 | 1003 | 0 | 0.33 | 07/05/2021 21:17 | 7.68 | 1013 | 9.6 |
| 10/05/2021 21:01 | 62.4 | 21.6 | 1.3 | 10 | 4 | 1003 | 1003 | 0 | 0.23 | 07/05/2021 22:17 | 7.68 | 1012 | 9.2 |
| 10/05/2021 22:01 | 62.4 | 22.0 | 1.2 | 10 | 4 | 1004 | 1003 | -1 | 0.27 | 07/05/2021 23:17 | 7.68 | 1011 | 8.9 |
| 10/05/2021 23:01 | 63.4 | 21.6 | 1.0 | 10 | 4 | 1004 | 1004 | 0 | 0.35 | 08/05/2021 00:17 | 7.67 | 1010 | 9.0 |
| 11/05/2021 00:01 | 61.4 | 22.2 | 1.5 | 10 | 4 | 1004 | 1004 | 0 | 0.22 | 08/05/2021 01:17 | 7.67 | 1009 | 8.7 |
| 11/05/2021 01:01 | 60.8 | 21.8 | 1.5 | 10 | 4 | 1004 | 1003 | -1 | 0.53 | 08/05/2021 02:17 | 7.67 | 1008 | 8.5 |
| 11/05/2021 02:01 | 59.7 | 21.9 | 1.5 | 10 | 4 | 1003 | 1003 | 0 | 0.58 | 08/05/2021 03:17 | 7.67 | 1007 | 8.7 |
| 11/05/2021 03:01 | 60.6 | 21.6 | 1.4 | 10 | 4 | 1003 | 1003 | 0 | 0.32 | 08/05/2021 04:17 | 7.66 | 1005 | 9.1 |
| 11/05/2021 04:01 | 61.0 | 22.5 | 1.0 | 10 | 4 | 1004 | 1003 | -1 | 0.18 | 08/05/2021 05:17 | 7.66 | 1004 | 9.2 |
| 11/05/2021 05:01 | 61.1 | 22.4 | 0.8 | 10 | 4 | 1004 | 1004 | 0 | 0.26 | 08/05/2021 06:17 | 7.66 | 1003 | 9.8 |
| 11/05/2021 06:01 | 59.2 | 22.9 | 0.9 | 10 | 4 | 1004 | 1004 | 0 | 0.38 | 08/05/2021 07:17 | 7.66 | 1002 | 10.3 |
| 11/05/2021 07:01 | 59.2 | 23.5 | 0.7 | 10 | 4 | 1004 | 1004 | 0 | 0.27 | 08/05/2021 08:17 | 7.66 | 1002 | 10.7 |
| 11/05/2021 08:01 | 60.3 | 23.5 | 0.6 | 10 | 4 | 1005 | 1004 | -1 | 0.28 | 08/05/2021 09:17 | 7.66 | 1002 | 11.7 |
| 11/05/2021 09:01 | 58.4 | 23.0 | 1.3 | 10 | 4 | 1005 | 1004 | -1 | 0.00 | 08/05/2021 10:17 | 7.66 | 1002 | 12.7 |
| 11/05/2021 10:01 | 61.5 | 23.4 | 0.6 | 10 | 4 | 1005 | 1005 | 0 | 0.13 | 08/05/2021 11:17 | 7.66 | 1001 | 14.0 |
| 11/05/2021 11:01 | 61.4 | 23.9 | 0.5 | 10 | 4 | 1006 | 1005 | -1 | 0.26 | 08/05/2021 12:17 | 7.66 | 1002 | 16.0 |
| 11/05/2021 12:01 | 60.3 | 23.9 | 0.7 | 10 | 4 | 1006 | 1005 | -1 | 0.33 | 08/05/2021 13:17 | 7.67 | 1002 | 16.0 |
| 11/05/2021 13:01 | 60.5 | 23.3 | 0.7 | 10 | 4 | 1006 | 1005 | -1 | 0.18 | 08/05/2021 14:17 | 7.67 | 1002 | 16.2 |
| 11/05/2021 14:01 | 59.8 | 23.4 | 0.7 | 10 | 4 | 1005 | 1004 | -1 | 0.59 | 08/05/2021 15:17 | 7.66 | 1001 | 16.7 |
| 11/05/2021 15:01 | 58.3 | 23.9 | 1.1 | 10 | 4 | 1005 | 1004 | -1 | 0.30 | 08/05/2021 16:17 | 7.67 | 1001 | 16.8 |
| 11/05/2021 16:01 | 59.2 | 23.8 | 0.8 | 10 | 4 | 1004 | 1004 | 0 | 0.24 | 08/05/2021 17:17 | 7.67 | 1001 | 17.0 |
| 11/05/2021 17:01 | 56.9 | 23.5 | 1.5 | 10 | 4 | 1004 | 1004 | 0 | 0.04 | 08/05/2021 18:17 | 7.66 | 1000 | 16.2 |
| 11/05/2021 18:01 | 46.3 | 19.6 | 4.9 | 10 | 4 | 1005 | 1004 | -1 | 0.04 | 08/05/2021 19:17 | 7.66 | 1000 | 15.2 |
| 11/05/2021 19:01 | 55.9 | 22.2 | 2.0 | 10 | 4 | 1005 | 1005 | 0 | 0.14 | 08/05/2021 20:17 | 7.66 | 1000 | 14.5 |
| 11/05/2021 20:01 | 57.3 | 23.4 | 1.7 | 10 | 4 | 1005 | 1005 | 0 | 0.11 | 08/05/2021 21:17 | 7.66 | 1000 | 13.4 |
| 11/05/2021 21:01 | 61.2 | 24.1 | 0.5 | 10 | 4 | 1006 | 1006 | 0 | 0.28 | 08/05/2021 22:17 | 7.66 | 999 | 11.7 |
| 11/05/2021 22:01 | 59.8 | 23.5 | 0.7 | 10 | 4 | 1006 | 1006 | 0 | 0.25 | 08/05/2021 23:17 | 7.66 | 998 | 11.5 |
| 11/05/2021 23:01 | 60.9 | 24.0 | 0.5 | 10 | 4 | 1006 | 1006 | 0 | 0.37 | 09/05/2021 00:17 | 7.66 | 997 | 11.3 |
| 12/05/2021 00:01 | 60.8 | 24.1 | 0.5 | 10 | 4 | 1006 | 1006 | 0 | 0.22 | 09/05/2021 01:17 | 7.66 | 997 | 11.2 |
| 12/05/2021 01:01 | 61.6 | 24.3 | 0.4 | 10 | 4 | 1006 | 1006 | 0 | 0.43 | 09/05/2021 02:17 | 7.66 | 996 | 11.0 |
| 12/05/2021 02:01 | 61.9 | 24.1 | 0.2 | 10 | 4 | 1006 | 1006 | 0 | 0.49 | 09/05/2021 03:17 | 7.66 | 996 | 10.7 |
| 12/05/2021 03:01 | 62.5 | 24.1 | 0.1 | 10 | 4 | 1006 | 1006 | 0 | 0.46 | 09/05/2021 04:17 | 7.66 | 995 | 10.4 |
| 12/05/2021 04:01 | 63.3 | 24.2 | 0.1 | 10 | 4 | 1006 | 1006 | 0 | 0.37 | 09/05/2021 05:17 | 7.66 | 995 | 10.9 |
| 12/05/2021 05:01 | 63.8 | 24.9 | 0.0 | 10 | 4 | 1007 | 1006 | -1 | 0.42 | 09/05/2021 06:17 | 7.66 | 995 | 11.7 |
| 12/05/2021 06:01 | 63.6 | 24.8 | 0.0 | 10 | 4 | 1007 | 1007 | 0 | 0.36 | 09/05/2021 07:17 | 7.66 | 995 | 13.0 |
| 12/05/2021 07:01 | 63.0 | 24.6 | 0.0 | 10 | 4 | 1007 | 1007 | 0 | 0.42 | 09/05/2021 08:17 | 7.66 | 995 | 18.3 |
| 12/05/2021 08:01 | 63.3 | 24.6 | 0.0 | 10 | 4 | 1007 | 1007 | 0 | 0.21 | 09/05/2021 09:17 | 7.66 | 994 | 20.4 |
| 12/05/2021 09:01 | 63.1 | 24.4 | 0.0 | 10 | 4 | 1007 | 1007 | 0 | 0.30 | 09/05/2021 10:17 | 7.66 | 995 | 19.9 |
| 12/05/2021 10:01 | 63.7 | 25.2 | 0.0 | 10 | 4 | 1007 | 1006 | -1 | 0.30 | 09/05/2021 11:17 | 7.66 | 995 | 21.7 |
| 12/05/2021 11:01 | 63.3 | 24.6 | 0.1 | 10 | 4 | 1007 | 1006 | -1 | 0.38 | 09/05/2021 12:17 | 7.66 | 994 | 20.8 |
| 12/05/2021 12:01 | 63.3 | 25.0 | 0.1 | 10 | 4 | 1007 | 1006 | -1 | 0.37 | 09/05/2021 13:17 | 7.66 | 994 | 22.5 |
| 12/05/2021 13:01 | 62.6 | 24.7 | 0.1 | 10 | 4 | 1006 | 1006 | 0 | 0.32 | 09/05/2021 14:17 | 7.66 | 994 | 23.8 |
| 12/05/2021 14:01 | 63.1 | 25.0 | 0.1 | 10 | 4 | 1006 | 1005 | -1 | 0.57 | 09/05/2021 15:17 | 7.66 | 994 | 20.1 |
| 12/05/2021 15:01 | 63.3 | 25.3 | 0.0 | 10 | 4 | 1006 | 1005 | -1 | 0.33 | 09/05/2021 16:17 | 7.66 | 993 | 20.5 |
| 12/05/2021 16:01 | 63.5 | 25.6 | 0.0 | 10 | 4 | 1006 | 1005 | -1 | 0.60 | 09/05/2021 17:17 | 7.66 | 993 | 19.5 |
| 12/05/2021 17:01 | 63.0 | 24.9 | 0.0 | 10 | 4 | 1005 | 1004 | -1 | 0.48 | 09/05/2021 18:17 | 7.66 | 993 | 16.2 |
| 12/05/2021 18:01 | 62.9 | 24.8 | 0.0 | 11 | 4 | 1005 | 1004 | -1 | 0.61 | 09/05/2021 19:17 | 7.67 | 993 | 14.5 |
| 12/05/2021 19:01 | 63.0 | 24.8 | 0.0 | 11 | 4 | 1004 | 1004 | 0 | 0.46 | 09/05/2021 20:17 | 7.67 | 993 | 13.4 |
| 12/05/2021 20:01 | 63.2 | 24.9 | 0.0 | 11 | 4 | 1004 | 1004 | 0 | 0.46 | 09/05/2021 21:17 | 7.67 | 993 | 12.7 |
| 12/05/2021 21:01 | 63.1 | 25.2 | 0.0 | 11 | 4 | 1004 | 1004 | 0 | 0.78 | 09/05/2021 22:17 | 7.67 | 993 | 11.9 |
| 12/05/2021 22:01 | 63.1 | 25.0 | 0.0 | 11 | 4 | 1003 | 1003 | 0 | 0.75 | 09/05/2021 23:17 | 7.67 | 994 | 11.2 |
| 12/05/2021 23:01 | 62.9 | 24.7 | 0.0 | 11 | 4 | 1003 | 1002 | -1 | 0.63 | 10/05/2021 00:17 | 7.67 | 994 | 10.7 |
| 13/05/2021 00:01 | 63.0 | 25.0 | 0.0 | 11 | 4 | 1002 | 1002 | 0 | 0.64 | 10/05/2021 01:17 | 7.67 | 994 | 10.4 |
| 13/05/2021 01:01 | 62.7 | 24.8 | 0.0 | 11 | 4 | 1002 | 1001 | -1 | 0.67 | 10/05/2021 02:17 | 7.67 | 994 | 10.2 |
| 13/05/2021 02:01 | 63.1 | 25.0 | 0.0 | 11 | 4 | 1002 | 1001 | -1 | 0.52 | 10/05/2021 03:17 | 7.67 | 994 | 10.2 |
| 13/05/2021 03:01 | 62.9 | 24.8 | 0.0 | 11 | 4 | 1001 | 1001 | 0 | 0.50 | 10/05/2021 04:17 | 7.67 | 995 | 10.5 |
| 13/05/2021 04:01 | 62.8 | 24.8 | 0.1 | 11 | 4 | 1001 | 1001 | 0 | 0.49 | 10/05/2021 05:17 | 7.67 | 995 | 10.2 |
| 13/05/2021 05:01 | 63.0 | 25.1 | 0.1 | 11 | 4 | 1001 | 1001 | 0 | 0.46 | 10/05/2021 06:17 | 7.68 | 995 | 11.8 |
| 13/05/2021 06:01 | 63.1 | 25.2 | 0.2 | 11 | 4 | 1001 | 1001 | 0 | 0.50 | 10/05/2021 07:17 | 7.68 | 996 | 13.1 |
| 13/05/2021 07:01 | 63.0 | 25.0 | 0.2 | 11 | 4 | 1001 | 1001 | 0 | 0.27 | 10/05/2021 08:17 | 7.68 | 996 | 13.5 |
| 13/05/2021 08:01 | 62.6 | 24.5 | 0.3 | 11 | 4 | 1002 | 1002 | 0 | 0.09 | 10/05/2021 09:17 | 7.68 | 997 | 14.9 |
| 13/05/2021 09:01 | 63.1 | 25.0 | 0.4 | 11 | 4 | 1002 | 1002 | 0 | 0.22 | 10/05/2021 10:17 | 7.68 | 998 | 17.3 |
| 13/05/2021 10:01 | 62.7 | 24.5 | 0.4 | 11 | 4 | 1002 | 1002 | 0 | 0.41 | 10/05/2021 11:17 | 7.69 | 999 | 16.8 |
| 13/05/2021 11:01 | 62.8 | 24.9 | 0.5 | 11 | 4 | 1002 | 1001 | -1 | 0.33 | 10/05/2021 12:17 | 7.69 | 999 | 18.2 |
| 13/05/2021 12:01 | 62.6 | 25.2 | 0.6 | 11 | 4 | 1002 | 1002 | 0 | 0.21 | 10/05/2021 13:17 | 7.69 | 1000 | 19.8 |
| 13/05/2021 13:01 | 62.8 | 25.5 | 0.7 | 11 | 4 | 1002 | 1002 | 0 | 0.33 | 10/05/2021 14:17 | 7.69 | 1000 | 21.9 |
| 13/05/2021 14:01 | 62.2 | 25.3 | 0.7 | 11 | 4 | 1002 | 1002 | 0 | 0.40 | 10/05/2021 15:17 | 7.69 | 1001 | 22.0 |
| 13/05/2021 15:01 | 62.7 | 25.3 | 0.7 | 11 | 4 | 1002 | 1002 | 0 | 0.56 | 10/05/2021 16:17 | 7.69 | 1001 | 21.1 |
| 13/05/2021 16:01 | 62.6 | 25.4 | 0.7 | 11 | 4 | 1002 | 1002 | 0 | 0.27 | 10/05/2021 17:17 | 7.69 | 1001 | 19.9 |
| 13/05/2021 17:01 | 62.7 | 25.3 | 0.7 | 11 | 4 | 1002 | 1002 | 0 | 0.48 | 10/05/2021 18:17 | 7.69 | 1001 | 17.6 |
| 13/05/2021 18:01 | 62.7 | 25.2 | 0.7 | 11 | 4 | 1002 | 1002 | 0 | 0.36 | 10/05/2021 19:17 | 7.69 | 1002 | 14.7 |
| 13/05/2021 19:01 | 62.9 | 25.0 | 0.7 | 11 | 4 | 1003 | 1003 | 0 | 0.24 | 10/05/2021 20:17 | 7.70 | 1003 | 11.6 |
| 13/05/2021 20:01 | 62.7 | 24.5 | 0.7 | 11 | 4 | 1003 | 1003 | 0 | 0.21 | 10/05/2021 21:17 | 7.70 | 1003 | 10.8 |

| Date and Time | $CH_4$ % v/v | $CO_2$ % v/v | $O_2$ % v/v | $H_2S$ ppm/v | CO ppm/v | Borehole Pressure mbar | Atmospheric Pressure mbar | Differential Pressure mbar | Flow Ltr/hr | | Water Level mbgl | Atmospheric Pressure mbar | Temperature °C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 13/05/2021 21:01 | 63.2 | 24.8 | 0.8 | 11 | 4 | 1004 | 1003 | -1 | 0.43 | 10/05/2021 22:17 | 7.70 | 1003 | 9.9 |
| 13/05/2021 22:01 | 63.7 | 25.1 | 0.8 | 11 | 4 | 1004 | 1004 | 0 | 0.36 | 10/05/2021 23:17 | 7.70 | 1004 | 9.2 |
| 13/05/2021 23:01 | 64.0 | 25.5 | 0.8 | 11 | 4 | 1004 | 1004 | 0 | 0.40 | 11/05/2021 00:17 | 7.70 | 1004 | 9.5 |
| 14/05/2021 00:01 | 63.3 | 24.2 | 0.8 | 11 | 4 | 1004 | 1004 | 0 | 0.51 | 11/05/2021 01:17 | 7.70 | 1003 | 9.6 |
| 14/05/2021 01:01 | 63.7 | 24.9 | 0.8 | 11 | 4 | 1004 | 1004 | 0 | 0.52 | 11/05/2021 02:17 | 7.70 | 1003 | 8.8 |
| 14/05/2021 02:01 | 63.6 | 24.6 | 0.8 | 11 | 4 | 1004 | 1004 | 0 | 0.30 | 11/05/2021 03:17 | 7.70 | 1003 | 7.7 |
| 14/05/2021 03:01 | 63.8 | 24.6 | 0.8 | 11 | 4 | 1005 | 1004 | -1 | 0.31 | 11/05/2021 04:17 | 7.70 | 1003 | 6.9 |
| 14/05/2021 04:01 | 64.2 | 24.9 | 0.8 | 11 | 4 | 1005 | 1004 | -1 | 0.52 | 11/05/2021 05:17 | 7.70 | 1004 | 7.7 |
| 14/05/2021 05:01 | 63.9 | 24.0 | 0.8 | 11 | 4 | 1005 | 1005 | 0 | 0.13 | 11/05/2021 06:17 | 7.70 | 1004 | 10.4 |
| 14/05/2021 06:01 | 63.6 | 24.3 | 0.9 | 11 | 4 | 1006 | 1006 | 0 | 0.09 | 11/05/2021 07:17 | 7.70 | 1004 | 13.7 |
| 14/05/2021 07:01 | 62.9 | 23.9 | 1.1 | 11 | 3 | 1007 | 1007 | 0 | 0.29 | 11/05/2021 08:17 | 7.70 | 1004 | 16.8 |
| 14/05/2021 08:01 | 64.2 | 24.4 | 0.9 | 11 | 4 | 1007 | 1007 | 0 | 0.35 | 11/05/2021 09:17 | 7.70 | 1004 | 19.4 |
| 14/05/2021 09:01 | 64.1 | 24.4 | 0.9 | 11 | 4 | 1008 | 1007 | -1 | 0.41 | 11/05/2021 10:17 | 7.70 | 1005 | 20.4 |
| 14/05/2021 10:01 | 64.4 | 24.7 | 1.0 | 11 | 4 | 1008 | 1008 | 0 | 0.42 | 11/05/2021 11:17 | 7.70 | 1005 | 18.7 |
| 14/05/2021 11:01 | 63.9 | 24.8 | 1.0 | 11 | 4 | 1008 | 1008 | 0 | 0.51 | 11/05/2021 12:17 | 7.70 | 1005 | 19.3 |
| 14/05/2021 12:01 | 64.0 | 25.1 | 1.1 | 11 | 4 | 1008 | 1008 | 0 | 0.40 | 11/05/2021 13:17 | 7.70 | 1005 | 21.6 |
| 14/05/2021 13:01 | 63.7 | 24.8 | 1.1 | 11 | 4 | 1008 | 1007 | -1 | 0.54 | 11/05/2021 14:17 | 7.70 | 1004 | 22.7 |
| 14/05/2021 14:01 | 64.1 | 24.7 | 1.2 | 11 | 4 | 1008 | 1007 | -1 | 0.50 | 11/05/2021 15:17 | 7.70 | 1004 | 21.1 |
| 14/05/2021 15:01 | 63.7 | 24.6 | 1.1 | 11 | 4 | 1008 | 1007 | -1 | 0.55 | 11/05/2021 16:17 | 7.70 | 1004 | 16.8 |
| 14/05/2021 16:01 | 63.4 | 24.5 | 1.1 | 11 | 4 | 1007 | 1007 | 0 | 0.65 | 11/05/2021 17:17 | 7.70 | 1004 | 15.2 |
| 14/05/2021 17:01 | 63.9 | 24.8 | 1.0 | 11 | 4 | 1007 | 1006 | -1 | 0.69 | 11/05/2021 18:17 | 7.70 | 1004 | 14.4 |
| 14/05/2021 18:01 | 64.1 | 24.6 | 1.0 | 11 | 4 | 1006 | 1006 | 0 | 0.58 | 11/05/2021 19:17 | 7.70 | 1005 | 12.8 |
| 14/05/2021 19:01 | 63.9 | 24.9 | 1.0 | 11 | 4 | 1006 | 1005 | -1 | 0.47 | 11/05/2021 20:17 | 7.70 | 1005 | 11.8 |
| 14/05/2021 20:01 | 63.5 | 24.5 | 0.9 | 11 | 4 | 1006 | 1005 | -1 | 0.57 | 11/05/2021 21:17 | 7.70 | 1006 | 11.1 |
| 14/05/2021 21:01 | 63.9 | 24.6 | 0.9 | 11 | 4 | 1005 | 1005 | 0 | 0.44 | 11/05/2021 22:17 | 7.70 | 1006 | 11.2 |
| 14/05/2021 22:01 | 63.9 | 24.5 | 0.9 | 11 | 4 | 1005 | 1004 | -1 | 0.68 | 11/05/2021 23:17 | 7.70 | 1006 | 10.5 |
| 14/05/2021 23:01 | 64.0 | 24.3 | 0.9 | 11 | 4 | 1004 | 1004 | 0 | 1.03 | 12/05/2021 00:17 | 7.70 | 1006 | 10.2 |
| 15/05/2021 00:01 | 64.0 | 24.2 | 0.9 | 11 | 4 | 1003 | 1003 | 0 | 0.73 | 12/05/2021 01:17 | 7.70 | 1006 | 9.6 |
| 15/05/2021 01:01 | 64.2 | 24.1 | 0.9 | 11 | 4 | 1002 | 1002 | 0 | 0.81 | 12/05/2021 02:17 | 7.70 | 1006 | 9.0 |
| 15/05/2021 02:01 | 64.1 | 24.5 | 0.9 | 11 | 4 | 1001 | 1001 | 0 | 0.79 | 12/05/2021 03:17 | 7.70 | 1006 | 8.4 |
| 15/05/2021 03:01 | 63.8 | 24.5 | 0.9 | 11 | 4 | 1000 | 1000 | 0 | 0.95 | 12/05/2021 04:17 | 7.70 | 1006 | 8.0 |
| 15/05/2021 04:01 | 63.6 | 24.1 | 0.9 | 11 | 4 | 1000 | 999 | -1 | 0.82 | 12/05/2021 05:17 | 7.70 | 1006 | 8.4 |
| 15/05/2021 05:01 | 63.3 | 24.1 | 0.9 | 11 | 4 | 999 | 998 | -1 | 0.81 | 12/05/2021 06:17 | 7.70 | 1007 | 12.1 |
| 15/05/2021 06:01 | 63.2 | 24.4 | 0.9 | 11 | 4 | 998 | 998 | 0 | 0.63 | 12/05/2021 07:17 | 7.70 | 1007 | 15.8 |
| 15/05/2021 07:01 | 63.0 | 24.2 | 0.9 | 11 | 4 | 998 | 997 | -1 | 0.90 | 12/05/2021 08:17 | 7.70 | 1007 | 17.1 |
| 15/05/2021 08:01 | 62.9 | 24.4 | 0.9 | 11 | 4 | 997 | 997 | 0 | 0.69 | 12/05/2021 09:17 | 7.70 | 1007 | 16.2 |
| 15/05/2021 09:01 | 62.7 | 24.5 | 0.9 | 11 | 4 | 997 | 996 | -1 | 0.37 | 12/05/2021 10:17 | 7.70 | 1006 | 19.8 |
| 15/05/2021 10:01 | 63.1 | 24.8 | 1.0 | 11 | 4 | 997 | 997 | 0 | 0.45 | 12/05/2021 11:17 | 7.70 | 1006 | 22.1 |
| 15/05/2021 11:01 | 62.4 | 24.3 | 1.0 | 11 | 4 | 997 | 997 | 0 | 0.37 | 12/05/2021 12:17 | 7.70 | 1006 | 23.1 |
| 15/05/2021 12:01 | 62.6 | 24.4 | 1.1 | 11 | 4 | 997 | 997 | 0 | 0.33 | 12/05/2021 13:17 | 7.70 | 1006 | 22.4 |
| 15/05/2021 13:01 | 62.4 | 24.3 | 1.1 | 11 | 4 | 997 | 997 | 0 | 0.46 | 12/05/2021 14:17 | 7.70 | 1005 | 22.1 |
| 15/05/2021 14:01 | 62.6 | 24.6 | 1.1 | 11 | 4 | 998 | 997 | -1 | 0.93 | 12/05/2021 15:17 | 7.70 | 1005 | 21.0 |
| 15/05/2021 15:01 | 62.7 | 24.3 | 1.1 | 11 | 4 | 998 | 997 | -1 | 0.28 | 12/05/2021 16:17 | 7.70 | 1005 | 17.0 |
| 15/05/2021 16:01 | 63.0 | 24.5 | 1.1 | 11 | 4 | 997 | 997 | 0 | 0.61 | 12/05/2021 17:17 | 7.70 | 1004 | 15.7 |
| 15/05/2021 17:01 | 61.8 | 24.3 | 1.3 | 11 | 1 | 998 | 997 | -1 | 0.24 | 12/05/2021 18:17 | 7.69 | 1004 | 14.6 |
| 15/05/2021 18:01 | 62.4 | 24.4 | 1.0 | 11 | 4 | 997 | 997 | 0 | 0.37 | 12/05/2021 19:17 | 7.70 | 1004 | 13.6 |
| 15/05/2021 19:01 | 63.0 | 24.4 | 1.0 | 11 | 4 | 997 | 997 | 0 | 0.12 | 12/05/2021 20:17 | 7.70 | 1004 | 12.7 |
| 15/05/2021 20:01 | 63.0 | 24.5 | 1.0 | 11 | 4 | 998 | 998 | 0 | 0.35 | 12/05/2021 21:17 | 7.70 | 1004 | 12.4 |
| 15/05/2021 21:01 | 62.9 | 24.5 | 0.9 | 11 | 4 | 998 | 998 | 0 | 0.60 | 12/05/2021 22:17 | 7.70 | 1003 | 12.1 |
| 15/05/2021 22:01 | 63.3 | 24.5 | 0.9 | 11 | 4 | 998 | 998 | 0 | 0.50 | 12/05/2021 23:17 | 7.69 | 1002 | 12.0 |
| 15/05/2021 23:01 | 63.2 | 24.5 | 0.9 | 11 | 4 | 998 | 998 | 0 | 0.39 | 13/05/2021 00:17 | 7.69 | 1002 | 11.9 |
| 16/05/2021 00:01 | 63.2 | 24.5 | 0.9 | 11 | 4 | 998 | 997 | -1 | 0.44 | 13/05/2021 01:17 | 7.69 | 1001 | 12.0 |
| 16/05/2021 01:01 | 63.0 | 24.0 | 0.9 | 11 | 4 | 998 | 997 | -1 | 0.55 | 13/05/2021 02:17 | 7.69 | 1001 | 11.2 |
| 16/05/2021 02:01 | 63.3 | 24.1 | 0.9 | 11 | 4 | 997 | 997 | 0 | 0.62 | 13/05/2021 03:17 | 7.69 | 1001 | 10.2 |
| 16/05/2021 03:01 | 62.9 | 24.1 | 0.9 | 11 | 4 | 997 | 997 | 0 | 0.54 | 13/05/2021 04:17 | 7.69 | 1001 | 9.7 |
| 16/05/2021 04:01 | 63.1 | 24.2 | 0.9 | 11 | 4 | 997 | 996 | -1 | 0.11 | 13/05/2021 05:17 | 7.69 | 1001 | 9.7 |
| 16/05/2021 05:01 | 63.1 | 25.0 | 0.9 | 11 | 4 | 997 | 996 | -1 | 0.42 | 13/05/2021 06:17 | 7.69 | 1001 | 10.0 |
| 16/05/2021 06:01 | 63.1 | 23.8 | 0.9 | 11 | 4 | 997 | 997 | 0 | 0.51 | 13/05/2021 07:17 | 7.69 | 1001 | 10.1 |
| 16/05/2021 07:01 | 57.5 | 22.1 | 1.8 | 11 | 3 | 997 | 996 | -1 | 0.47 | 13/05/2021 08:17 | 7.69 | 1002 | 11.9 |
| 16/05/2021 08:01 | 63.5 | 24.0 | 0.9 | 12 | 4 | 997 | 996 | -1 | 0.68 | 13/05/2021 09:17 | 7.70 | 1002 | 13.0 |
| 16/05/2021 09:01 | 63.9 | 24.1 | 0.9 | 12 | 4 | 997 | 996 | -1 | 0.69 | 13/05/2021 10:17 | 7.70 | 1002 | 13.2 |
| 16/05/2021 10:01 | 63.7 | 24.3 | 1.0 | 12 | 4 | 996 | 996 | 0 | 0.60 | 13/05/2021 11:17 | 7.69 | 1001 | 15.8 |
| 16/05/2021 11:01 | 63.4 | 24.4 | 1.0 | 12 | 4 | 996 | 996 | 0 | 0.25 | 13/05/2021 12:17 | 7.70 | 1002 | 17.2 |
| 16/05/2021 12:01 | 63.0 | 24.0 | 1.0 | 12 | 4 | 996 | 995 | -1 | 0.49 | 13/05/2021 13:17 | 7.70 | 1002 | 17.2 |
| 16/05/2021 13:01 | 62.9 | 24.2 | 1.1 | 12 | 4 | 996 | 995 | -1 | 0.30 | 13/05/2021 14:17 | 7.70 | 1002 | 15.6 |
| 16/05/2021 14:01 | 63.8 | 24.4 | 1.0 | 12 | 4 | 995 | 994 | -1 | 0.70 | 13/05/2021 15:17 | 7.70 | 1002 | 14.5 |
| 16/05/2021 15:01 | 63.3 | 24.6 | 1.0 | 12 | 4 | 994 | 994 | 0 | 0.45 | 13/05/2021 16:17 | 7.70 | 1002 | 15.0 |
| 16/05/2021 16:01 | 62.7 | 24.4 | 1.0 | 12 | 4 | 994 | 993 | -1 | 0.51 | 13/05/2021 17:17 | 7.70 | 1002 | 12.2 |
| 16/05/2021 17:01 | 62.8 | 24.5 | 1.0 | 12 | 4 | 993 | 993 | 0 | 0.71 | 13/05/2021 18:17 | 7.70 | 1002 | 11.4 |
| 16/05/2021 18:01 | 62.7 | 24.4 | 0.9 | 12 | 4 | 993 | 992 | -1 | 0.43 | 13/05/2021 19:17 | 7.70 | 1003 | 10.5 |
| 16/05/2021 19:01 | 62.8 | 24.2 | 0.9 | 12 | 4 | 993 | 993 | 0 | 0.44 | 13/05/2021 20:17 | 7.70 | 1003 | 10.1 |
| 16/05/2021 20:01 | 62.1 | 23.8 | 0.9 | 11 | 4 | 994 | 993 | -1 | 0.07 | 13/05/2021 21:17 | 7.70 | 1003 | 9.9 |
| 16/05/2021 21:01 | 62.9 | 24.4 | 0.9 | 11 | 4 | 995 | 994 | -1 | 0.11 | 13/05/2021 22:17 | 7.70 | 1004 | 9.2 |
| 16/05/2021 22:01 | 62.9 | 24.4 | 0.9 | 11 | 4 | 995 | 995 | 0 | 0.19 | 13/05/2021 23:17 | 7.70 | 1004 | 9.3 |
| 16/05/2021 23:01 | 63.3 | 24.4 | 0.9 | 11 | 4 | 996 | 996 | 0 | 0.24 | 14/05/2021 00:17 | 7.70 | 1004 | 9.3 |
| 17/05/2021 00:01 | 63.3 | 24.6 | 0.9 | 12 | 4 | 997 | 996 | -1 | 0.17 | 14/05/2021 01:17 | 7.70 | 1004 | 9.3 |
| 17/05/2021 01:01 | 63.2 | 24.2 | 0.9 | 11 | 4 | 997 | 997 | 0 | 0.23 | 14/05/2021 02:17 | 7.70 | 1004 | 9.2 |
| 17/05/2021 02:01 | 63.1 | 24.2 | 0.9 | 11 | 4 | 998 | 997 | -1 | 0.26 | 14/05/2021 03:17 | 7.70 | 1004 | 9.1 |
| 17/05/2021 03:01 | 63.1 | 24.2 | 0.8 | 11 | 4 | 998 | 998 | 0 | 0.36 | 14/05/2021 04:17 | 7.70 | 1004 | 9.1 |
| 17/05/2021 04:01 | 62.8 | 24.0 | 0.9 | 11 | 4 | 999 | 999 | 0 | 0.26 | 14/05/2021 05:17 | 7.70 | 1005 | 9.3 |
| 17/05/2021 05:01 | 63.5 | 24.2 | 0.8 | 11 | 4 | 1000 | 1000 | 0 | 0.17 | 14/05/2021 06:17 | 7.71 | 1006 | 10.4 |
| 17/05/2021 06:01 | 63.9 | 24.7 | 0.8 | 11 | 4 | 1001 | 1001 | 0 | 0.15 | 14/05/2021 07:17 | 7.71 | 1007 | 11.1 |
| 17/05/2021 07:01 | 63.7 | 24.3 | 0.9 | 11 | 4 | 1002 | 1002 | 0 | 0.18 | 14/05/2021 08:17 | 7.71 | 1007 | 12.0 |
| 17/05/2021 08:01 | 63.2 | 24.3 | 1.0 | 11 | 4 | 1003 | 1003 | 0 | 0.12 | 14/05/2021 09:17 | 7.71 | 1007 | 12.7 |
| 17/05/2021 09:01 | 63.3 | 24.2 | 1.0 | 11 | 4 | 1003 | 1003 | 0 | 0.10 | 14/05/2021 10:17 | 7.71 | 1008 | 14.4 |
| 17/05/2021 10:01 | 63.5 | 24.6 | 1.0 | 11 | 4 | 1004 | 1004 | 0 | 0.22 | 14/05/2021 11:17 | 7.71 | 1008 | 16.8 |
| 17/05/2021 11:01 | 58.3 | 23.6 | 1.7 | 10 | 3 | 1005 | 1004 | -1 | 0.41 | 14/05/2021 12:17 | 7.71 | 1008 | 16.4 |
| 17/05/2021 12:01 | 50.6 | 21.1 | 2.3 | 9 | 2 | 1005 | 1004 | -1 | 0.14 | 14/05/2021 13:17 | 7.71 | 1007 | 16.9 |
| 17/05/2021 13:01 | 63.6 | 24.5 | 0.9 | 12 | 4 | 1005 | 1004 | -1 | 0.55 | 14/05/2021 14:17 | 7.71 | 1007 | 17.6 |
| 17/05/2021 14:01 | 63.9 | 25.2 | 1.0 | 11 | 4 | 1005 | 1004 | -1 | 0.31 | 14/05/2021 15:17 | 7.71 | 1007 | 15.9 |
| 17/05/2021 15:01 | 32.4 | 14.7 | 4.0 | 6 | 2 | 1006 | 1005 | -1 | -0.01 | 14/05/2021 16:17 | 7.71 | 1007 | 14.4 |
| 17/05/2021 16:01 | 34.0 | 15.0 | 2.8 | 12 | 4 | 1006 | 1006 | 0 | 0.28 | 14/05/2021 17:17 | 7.71 | 1006 | 13.7 |
| 17/05/2021 17:01 | 60.1 | 23.8 | 1.2 | 12 | 4 | 1006 | 1006 | 0 | 0.50 | 14/05/2021 18:17 | 7.71 | 1006 | 13.1 |
| 17/05/2021 18:01 | 62.1 | 24.4 | 0.9 | 10 | 4 | 1006 | 1006 | 0 | 0.19 | 14/05/2021 19:17 | 7.71 | 1005 | 11.6 |
| 17/05/2021 19:01 | 63.0 | 24.7 | 0.8 | 10 | 4 | 1007 | 1007 | 0 | 0.29 | 14/05/2021 20:17 | 7.70 | 1005 | 10.4 |
| 17/05/2021 20:01 | 63.2 | 24.5 | 0.7 | 10 | 4 | 1007 | 1007 | 0 | 0.15 | 14/05/2021 21:17 | 7.71 | 1005 | 9.8 |
| 17/05/2021 21:01 | 62.3 | 24.1 | 0.8 | 10 | 4 | 1008 | 1008 | 0 | 0.20 | 14/05/2021 22:17 | 7.70 | 1004 | 10.1 |
| 17/05/2021 22:01 | 63.9 | 24.5 | 0.7 | 10 | 4 | 1009 | 1009 | 0 | 0.42 | 14/05/2021 23:17 | 7.70 | 1004 | 10.1 |
| 17/05/2021 23:01 | 64.3 | 24.2 | 0.7 | 10 | 4 | 1009 | 1009 | 0 | 0.35 | 15/05/2021 00:17 | 7.70 | 1003 | 10.2 |
| 18/05/2021 00:01 | 64.4 | 24.4 | 0.7 | 10 | 4 | 1009 | 1009 | 0 | 0.38 | 15/05/2021 01:17 | 7.70 | 1002 | 10.2 |
| 18/05/2021 01:01 | 64.4 | 24.2 | 0.7 | 10 | 4 | 1010 | 1009 | -1 | 0.42 | 15/05/2021 02:17 | 7.70 | 1001 | 9.7 |
| 18/05/2021 02:01 | 64.7 | 24.5 | 0.7 | 10 | 4 | 1010 | 1010 | 0 | 0.36 | 15/05/2021 03:17 | 7.70 | 1000 | 9.4 |
| 18/05/2021 03:01 | 64.8 | 24.2 | 0.7 | 10 | 4 | 1010 | 1010 | 0 | 0.51 | 15/05/2021 04:17 | 7.69 | 999 | 9.2 |
| 18/05/2021 04:01 | 65.5 | 24.6 | 0.7 | 10 | 4 | 1010 | 1010 | 0 | 0.12 | 15/05/2021 05:17 | 7.69 | 998 | 9.1 |
| 18/05/2021 05:01 | 65.0 | 24.3 | 0.7 | 10 | 4 | 1011 | 1010 | -1 | 0.53 | 15/05/2021 06:17 | 7.69 | 998 | 8.9 |
| 18/05/2021 06:01 | 65.3 | 24.3 | 0.8 | 10 | 4 | 1011 | 1011 | 0 | 0.29 | 15/05/2021 07:17 | 7.69 | 997 | 9.4 |
| 18/05/2021 07:01 | 65.5 | 25.3 | 0.8 | 10 | 4 | 1011 | 1011 | 0 | 0.44 | 15/05/2021 08:17 | 7.70 | 997 | 9.8 |
| 18/05/2021 08:01 | 65.0 | 24.4 | 0.9 | 10 | 4 | 1012 | 1011 | -1 | 0.22 | 15/05/2021 09:17 | 7.70 | 996 | 11.2 |
| 18/05/2021 09:01 | 64.7 | 24.5 | 0.9 | 11 | 4 | 1012 | 1011 | -1 | 0.52 | 15/05/2021 10:17 | 7.70 | 997 | 12.5 |
| 18/05/2021 10:01 | 64.9 | 24.8 | 1.0 | 11 | 4 | 1012 | 1011 | -1 | 0.53 | 15/05/2021 11:17 | 7.70 | 997 | 13.9 |
| 18/05/2021 11:01 | 64.5 | 24.8 | 1.0 | 11 | 4 | 1012 | 1011 | -1 | 0.43 | 15/05/2021 12:17 | 7.70 | 997 | 17.3 |
| 18/05/2021 12:01 | 64.5 | 25.0 | 1.0 | 11 | 4 | 1012 | 1011 | -1 | 0.36 | 15/05/2021 13:17 | 7.70 | 997 | 17.5 |
| 18/05/2021 13:01 | 64.3 | 24.9 | 1.1 | 11 | 4 | 1012 | 1011 | -1 | 0.29 | 15/05/2021 14:17 | 7.70 | 997 | 14.5 |
| 18/05/2021 14:01 | 63.9 | 24.7 | 1.1 | 11 | 4 | 1012 | 1011 | -1 | 0.54 | 15/05/2021 15:17 | 7.70 | 997 | 16.2 |
| 18/05/2021 15:01 | 64.6 | 25.2 | 1.1 | 11 | 4 | 1012 | 1011 | -1 | 0.49 | 15/05/2021 16:17 | 7.70 | 997 | 18.8 |
| 18/05/2021 16:01 | 64.2 | 24.8 | 1.0 | 11 | 4 | 1012 | 1012 | 0 | 0.46 | 15/05/2021 17:17 | 7.70 | 997 | 15.7 |
| 18/05/2021 17:01 | 64.3 | 24.5 | 0.9 | 11 | 4 | 1012 | 1012 | 0 | 0.80 | 15/05/2021 18:17 | 7.70 | 997 | 14.4 |
| 18/05/2021 18:01 | 64.8 | 25.0 | 0.9 | 11 | 4 | 1012 | 1012 | 0 | 0.36 | 15/05/2021 19:17 | 7.70 | 997 | 12.7 |
| 18/05/2021 19:01 | 64.8 | 24.9 | 0.8 | 11 | 4 | 1012 | 1012 | 0 | 0.46 | 15/05/2021 20:17 | 7.70 | 998 | 10.6 |
| 18/05/2021 20:01 | 64.8 | 24.7 | 0.8 | 11 | 4 | 1012 | 1012 | 0 | 0.24 | 15/05/2021 21:17 | 7.70 | 998 | 10.8 |
| 18/05/2021 21:01 | 65.1 | 24.7 | 0.8 | 11 | 4 | 1013 | 1013 | 0 | 0.18 | 15/05/2021 22:17 | 7.70 | 998 | 10.6 |
| 18/05/2021 22:01 | 65.2 | 25.2 | 0.8 | 11 | 4 | 1013 | 1012 | -1 | 0.64 | 15/05/2021 23:17 | 7.70 | 998 | 10.4 |
| 18/05/2021 23:01 | 64.9 | 24.5 | 0.8 | 11 | 4 | 1013 | 1012 | -1 | 0.60 | 16/05/2021 00:17 | 7.70 | 997 | 9.3 |
| 19/05/2021 00:01 | 65.0 | 24.4 | 0.8 | 11 | 4 | 1012 | 1012 | 0 | 0.46 | 16/05/2021 01:17 | 7.70 | 997 | 9.2 |
| 19/05/2021 01:01 | 65.2 | 24.8 | 0.8 | 11 | 4 | 1012 | 1012 | 0 | 0.57 | 16/05/2021 02:17 | 7.70 | 997 | 9.0 |
| 19/05/2021 02:01 | 65.3 | 24.8 | 0.8 | 11 | 4 | 1012 | 1011 | -1 | 0.55 | 16/05/2021 03:17 | 7.70 | 997 | 9.0 |

| Date and Time | $CH_4$ % v/v | $CO_2$ % v/v | $O_2$ % v/v | $H_2S$ ppm/v | CO ppm/v | Borehole Pressure mbar | Atmospheric Pressure mbar | Differential Pressure mbar | Flow Ltr/hr |
|---|---|---|---|---|---|---|---|---|---|
| 19/05/2021 03:01 | 65.1 | 24.6 | 0.8 | 11 | 4 | 1012 | 1011 | -1 | 0.74 |
| 19/05/2021 04:01 | 65.1 | 24.6 | 0.8 | 11 | 4 | 1012 | 1012 | 0 | 0.30 |
| 19/05/2021 05:01 | 64.9 | 24.4 | 0.8 | 11 | 4 | 1013 | 1012 | -1 | 0.27 |
| 19/05/2021 06:01 | 65.5 | 24.7 | 0.8 | 11 | 4 | 1013 | 1013 | 0 | 0.13 |
| 19/05/2021 07:01 | 65.2 | 24.5 | 0.8 | 11 | 4 | 1014 | 1014 | 0 | 0.30 |
| 19/05/2021 08:01 | 65.2 | 24.5 | 0.8 | 11 | 4 | 1015 | 1016 | 1 | 0.18 |

| | Water Level mbgl | Atmospheric Pressure mbar | Temperature °C |
|---|---|---|---|
| 16/05/2021 04:17 | 7.70 | 996 | 9.1 |
| 16/05/2021 05:17 | 7.70 | 996 | 8.5 |
| 16/05/2021 06:17 | 7.70 | 997 | 10.9 |
| 16/05/2021 07:17 | 7.70 | 996 | 10.0 |
| 16/05/2021 08:17 | 7.70 | 996 | 10.6 |
| 16/05/2021 09:17 | 7.70 | 996 | 12.4 |
| 16/05/2021 10:17 | 7.70 | 996 | 15.8 |
| 16/05/2021 11:17 | 7.70 | 996 | 15.9 |
| 16/05/2021 12:17 | 7.70 | 995 | 17.2 |
| 16/05/2021 13:17 | 7.70 | 995 | 13.9 |
| 16/05/2021 14:17 | 7.70 | 994 | 15.2 |
| 16/05/2021 15:17 | 7.70 | 994 | 15.0 |
| 16/05/2021 16:17 | 7.70 | 993 | 13.5 |
| 16/05/2021 17:17 | 7.70 | 993 | 12.2 |
| 16/05/2021 18:17 | 7.70 | 992 | 11.8 |
| 16/05/2021 19:17 | 7.70 | 993 | 11.8 |
| 16/05/2021 20:17 | 7.70 | 993 | 11.0 |
| 16/05/2021 21:17 | 7.71 | 994 | 10.6 |
| 16/05/2021 22:17 | 7.71 | 995 | 10.4 |
| 16/05/2021 23:17 | 7.71 | 996 | 9.8 |
| 17/05/2021 00:17 | 7.71 | 996 | 9.6 |
| 17/05/2021 01:17 | 7.71 | 997 | 9.4 |
| 17/05/2021 02:17 | 7.71 | 997 | 9.2 |
| 17/05/2021 03:17 | 7.71 | 998 | 8.7 |
| 17/05/2021 04:17 | 7.71 | 999 | 8.9 |
| 17/05/2021 05:17 | 7.72 | 1000 | 8.9 |
| 17/05/2021 06:17 | 7.72 | 1001 | 10.1 |
| 17/05/2021 07:17 | 7.72 | 1002 | 11.6 |
| 17/05/2021 08:17 | 7.73 | 1003 | 13.8 |
| 17/05/2021 09:17 | 7.73 | 1003 | 16.3 |
| 17/05/2021 10:17 | 7.73 | 1004 | 17.4 |
| 17/05/2021 11:17 | 7.73 | 1004 | 14.9 |
| 17/05/2021 12:17 | 7.73 | 1004 | 15.1 |
| 17/05/2021 13:17 | 7.73 | 1004 | 19.8 |
| 17/05/2021 14:17 | 7.73 | 1004 | 21.3 |
| 17/05/2021 15:17 | 7.73 | 1005 | 19.8 |
| 17/05/2021 16:17 | 7.73 | 1006 | 16.2 |
| 17/05/2021 17:17 | 7.73 | 1006 | 17.7 |
| 17/05/2021 18:17 | 7.73 | 1006 | 18.4 |
| 17/05/2021 19:17 | 7.73 | 1007 | 14.4 |
| 17/05/2021 20:17 | 7.73 | 1007 | 12.3 |
| 17/05/2021 21:17 | 7.74 | 1008 | 11.2 |
| 17/05/2021 22:17 | 7.74 | 1009 | 10.9 |
| 17/05/2021 23:17 | 7.74 | 1009 | 9.9 |
| 18/05/2021 00:17 | 7.74 | 1009 | 7.9 |
| 18/05/2021 01:17 | 7.74 | 1009 | 7.7 |
| 18/05/2021 02:17 | 7.74 | 1010 | 6.4 |
| 18/05/2021 03:17 | 7.74 | 1010 | 6.0 |
| 18/05/2021 04:17 | 7.74 | 1010 | 5.6 |
| 18/05/2021 05:17 | 7.74 | 1010 | 7.1 |
| 18/05/2021 06:17 | 7.74 | 1011 | 11.8 |
| 18/05/2021 07:17 | 7.74 | 1011 | 15.9 |
| 18/05/2021 08:17 | 7.74 | 1011 | 16.0 |
| 18/05/2021 09:17 | 7.74 | 1011 | 18.1 |
| 18/05/2021 10:17 | 7.74 | 1011 | 20.3 |
| 18/05/2021 11:17 | 7.74 | 1011 | 19.7 |
| 18/05/2021 12:17 | 7.74 | 1011 | 21.9 |
| 18/05/2021 13:17 | 7.74 | 1011 | 22.9 |
| 18/05/2021 14:17 | 7.74 | 1011 | 23.7 |
| 18/05/2021 15:17 | 7.74 | 1011 | 23.1 |
| 18/05/2021 16:17 | 7.74 | 1012 | 17.9 |
| 18/05/2021 17:17 | 7.74 | 1012 | 15.5 |
| 18/05/2021 18:17 | 7.74 | 1012 | 15.3 |
| 18/05/2021 19:17 | 7.74 | 1012 | 13.5 |
| 18/05/2021 20:17 | 7.74 | 1012 | 12.2 |
| 18/05/2021 21:17 | 7.74 | 1013 | 11.5 |
| 18/05/2021 22:17 | 7.74 | 1012 | 11.1 |
| 18/05/2021 23:17 | 7.74 | 1012 | 10.6 |
| 19/05/2021 00:17 | 7.74 | 1012 | 10.6 |
| 19/05/2021 01:17 | 7.74 | 1012 | 10.2 |
| 19/05/2021 02:17 | 7.74 | 1011 | 10.1 |
| 19/05/2021 03:17 | 7.74 | 1011 | 9.4 |
| 19/05/2021 04:17 | 7.74 | 1012 | 9.0 |
| 19/05/2021 05:17 | 7.74 | 1012 | 9.0 |
| 19/05/2021 06:17 | 7.74 | 1013 | 9.7 |
| 19/05/2021 07:17 | 7.74 | 1014 | 10.6 |
| 19/05/2021 08:17 | NM | 1016 | 10.7 |

# GGS Time Series Data

Experts in Continuous Monitoring

| | | | |
|---|---|---|---|
| **Project Ref:** | GGS2440 | | |
| **Location:** | Broadmarsh open Space, Harts Farm Way | | |
| **Borehole ref:** | RO104 | | |
| **GasClam ID:** | 22/09/14 | Days of monitoring: | 28 |
| **Start Date:** | 29/04/2021 12:53 | Monitoring Frequency (mins): | 60 |
| **End Date:** | 19/05/2021 07:53 | Total samples taken: | 476 |

**Minimum, Maximum and Range Table**

| | $CH_4$ | $CO_2$ | $O_2$ | $H_2S$ | CO | Borehole Pressure | Atmospheric Pressure | Differential Pressure | Temperature |
|---|---|---|---|---|---|---|---|---|---|
| **Minimum** | 20.2 | 16.6 | 0.0 | 0 | 0 | 995 | 995 | -1 | 5.9 |
| **Maximum** | 32.2 | 23.2 | 0.0 | 0 | 5 | 1021 | 1021 | 1 | 18.6 |
| **Range** | 12.0 | 6.6 | 0.0 | 0 | 5 | 26 | 26 | N/A | 12.7 |

| Date and Time | $CH_4$ % v/v | $CO_2$ % v/v | $O_2$ % v/v | $H_2S$ ppm/v | CO ppm/v | Borehole Pressure mbar | Atmospheric Pressure mbar | Differential Pressure mbar | Temperature °C |
|---|---|---|---|---|---|---|---|---|---|
| 29/04/2021 12:53 | 20.2 | 16.6 | 0.0 | 0 | 5 | 1011 | 1011 | 0 | 13.4 |
| 29/04/2021 13:53 | 20.6 | 17.4 | 0.0 | 0 | 3 | 1011 | 1011 | 0 | 13.4 |
| 29/04/2021 14:53 | 21.0 | 17.6 | 0.0 | 0 | 3 | 1011 | 1011 | 0 | 13.4 |
| 29/04/2021 15:53 | 21.0 | 17.8 | 0.0 | 0 | 3 | 1011 | 1011 | 0 | 13.4 |
| 29/04/2021 16:53 | 21.0 | 18.2 | 0.0 | 0 | 3 | 1011 | 1011 | 0 | 13.8 |
| 29/04/2021 17:53 | 21.3 | 18.3 | 0.0 | 0 | 3 | 1011 | 1012 | 1 | 13.8 |
| 29/04/2021 18:53 | 21.7 | 18.6 | 0.0 | 0 | 2 | 1012 | 1012 | 0 | 13.4 |
| 29/04/2021 19:53 | 21.8 | 18.6 | 0.0 | 0 | 2 | 1012 | 1012 | 0 | 12.9 |
| 29/04/2021 20:53 | 21.9 | 18.9 | 0.0 | 0 | 2 | 1012 | 1013 | 1 | 11.9 |
| 29/04/2021 21:53 | 21.8 | 19.2 | 0.0 | 0 | 2 | 1013 | 1013 | 0 | 10.9 |
| 29/04/2021 22:53 | 22.1 | 19.2 | 0.0 | 0 | 1 | 1013 | 1013 | 0 | 9.9 |
| 29/04/2021 23:53 | 22.3 | 19.2 | 0.0 | 0 | 1 | 1013 | 1013 | 0 | 9.1 |
| 30/04/2021 00:53 | 22.5 | 19.4 | 0.0 | 0 | 1 | 1014 | 1013 | -1 | 8.5 |
| 30/04/2021 01:53 | 22.5 | 19.5 | 0.0 | 0 | 1 | 1014 | 1013 | -1 | 8.1 |
| 30/04/2021 02:53 | 22.6 | 19.7 | 0.0 | 0 | 1 | 1014 | 1014 | 0 | 7.6 |
| 30/04/2021 03:53 | 22.6 | 19.7 | 0.0 | 0 | 1 | 1014 | 1013 | -1 | 7.4 |
| 30/04/2021 04:53 | 23.1 | 19.8 | 0.0 | 0 | 1 | 1014 | 1013 | -1 | 7.3 |
| 30/04/2021 05:53 | 23.2 | 19.9 | 0.0 | 0 | 1 | 1014 | 1013 | -1 | 7.3 |
| 30/04/2021 06:53 | 22.9 | 20.0 | 0.0 | 0 | 0 | 1014 | 1014 | 0 | 7.3 |
| 30/04/2021 07:53 | 23.1 | 20.2 | 0.0 | 0 | 0 | 1014 | 1014 | 0 | 7.5 |
| 30/04/2021 08:53 | 23.3 | 20.1 | 0.0 | 0 | 0 | 1015 | 1014 | -1 | 8.1 |
| 30/04/2021 09:53 | 23.1 | 20.3 | 0.0 | 0 | 0 | 1015 | 1014 | -1 | 9.0 |
| 30/04/2021 10:53 | 23.2 | 20.2 | 0.0 | 0 | 1 | 1015 | 1014 | -1 | 10.6 |
| 30/04/2021 11:53 | 23.5 | 20.3 | 0.0 | 0 | 3 | 1014 | 1014 | 0 | 11.4 |
| 30/04/2021 12:53 | 23.2 | 20.4 | 0.0 | 0 | 1 | 1014 | 1014 | 0 | 11.6 |
| 30/04/2021 13:53 | 23.4 | 20.4 | 0.0 | 0 | 2 | 1014 | 1014 | 0 | 11.9 |
| 30/04/2021 14:53 | 23.2 | 20.3 | 0.0 | 0 | 2 | 1014 | 1014 | 0 | 12.9 |
| 30/04/2021 15:53 | 23.1 | 20.5 | 0.0 | 0 | 2 | 1014 | 1014 | 0 | 12.8 |
| 30/04/2021 16:53 | 23.2 | 20.3 | 0.0 | 0 | 2 | 1014 | 1014 | 0 | 12.9 |
| 30/04/2021 17:53 | 23.2 | 20.5 | 0.0 | 0 | 2 | 1014 | 1014 | 0 | 13.5 |
| 30/04/2021 18:53 | 23.2 | 20.4 | 0.0 | 0 | 2 | 1014 | 1014 | 0 | 13.4 |
| 30/04/2021 19:53 | 23.4 | 20.6 | 0.0 | 0 | 2 | 1014 | 1014 | 0 | 12.8 |
| 30/04/2021 20:53 | 23.5 | 20.7 | 0.0 | 0 | 1 | 1014 | 1015 | 1 | 11.9 |
| 30/04/2021 21:53 | 23.3 | 20.9 | 0.0 | 0 | 1 | 1014 | 1015 | 1 | 10.8 |
| 30/04/2021 22:53 | 23.4 | 20.9 | 0.0 | 0 | 1 | 1015 | 1015 | 0 | 9.8 |
| 30/04/2021 23:53 | 23.6 | 21.1 | 0.0 | 0 | 1 | 1015 | 1015 | 0 | 9.1 |
| 01/05/2021 00:53 | 23.7 | 20.9 | 0.0 | 0 | 2 | 1015 | 1015 | 0 | 8.4 |
| 01/05/2021 01:53 | 23.7 | 20.9 | 0.0 | 0 | 1 | 1015 | 1015 | 0 | 7.8 |
| 01/05/2021 02:53 | 23.2 | 21.1 | 0.0 | 0 | 0 | 1015 | 1015 | 0 | 7.3 |
| 01/05/2021 03:53 | 23.7 | 21.2 | 0.0 | 0 | 0 | 1014 | 1014 | 0 | 6.8 |
| 01/05/2021 04:53 | 23.0 | 21.3 | 0.0 | 0 | 0 | 1014 | 1014 | 0 | 6.4 |
| 01/05/2021 05:53 | 23.3 | 21.4 | 0.0 | 0 | 0 | 1015 | 1015 | 0 | 6.1 |
| 01/05/2021 06:53 | 23.8 | 21.1 | 0.0 | 0 | 0 | 1015 | 1015 | 0 | 5.9 |
| 01/05/2021 07:53 | 23.8 | 21.3 | 0.0 | 0 | 0 | 1016 | 1015 | -1 | 6.0 |
| 01/05/2021 08:53 | 23.6 | 21.3 | 0.0 | 0 | 0 | 1016 | 1016 | 0 | 6.9 |
| 01/05/2021 09:53 | 23.8 | 21.2 | 0.0 | 0 | 1 | 1016 | 1015 | -1 | 8.3 |
| 01/05/2021 10:53 | 23.7 | 21.3 | 0.0 | 0 | 2 | 1016 | 1015 | -1 | 10.1 |
| 01/05/2021 11:53 | 24.0 | 21.2 | 0.0 | 0 | 2 | 1016 | 1015 | -1 | 11.6 |
| 01/05/2021 12:53 | 23.6 | 21.3 | 0.0 | 0 | 2 | 1015 | 1015 | 0 | 11.6 |
| 01/05/2021 13:53 | 23.6 | 21.3 | 0.0 | 0 | 1 | 1015 | 1016 | 1 | 11.3 |
| 01/05/2021 14:53 | 23.8 | 21.3 | 0.0 | 0 | 1 | 1015 | 1016 | 1 | 10.8 |
| 01/05/2021 15:53 | 23.6 | 21.3 | 0.0 | 0 | 2 | 1015 | 1015 | 0 | 10.9 |
| 01/05/2021 16:53 | 23.5 | 21.3 | 0.0 | 0 | 2 | 1016 | 1016 | 0 | 11.3 |
| 01/05/2021 17:53 | 23.6 | 21.4 | 0.0 | 0 | 2 | 1016 | 1016 | 0 | 11.3 |
| 01/05/2021 18:53 | 23.7 | 21.5 | 0.0 | 0 | 2 | 1016 | 1016 | 0 | 11.0 |
| 01/05/2021 19:53 | 23.5 | 21.6 | 0.0 | 0 | 2 | 1017 | 1016 | -1 | 10.9 |
| 01/05/2021 20:53 | 23.4 | 21.5 | 0.0 | 0 | 2 | 1017 | 1017 | 0 | 10.4 |
| 01/05/2021 21:53 | 23.4 | 21.4 | 0.0 | 0 | 1 | 1017 | 1017 | 0 | 9.9 |
| 01/05/2021 22:53 | 23.2 | 21.7 | 0.0 | 0 | 1 | 1017 | 1017 | 0 | 9.4 |
| 01/05/2021 23:53 | 23.4 | 21.7 | 0.0 | 0 | 1 | 1018 | 1018 | 0 | 9.0 |
| 02/05/2021 00:53 | 23.2 | 21.5 | 0.0 | 0 | 0 | 1018 | 1018 | 0 | 8.6 |
| 02/05/2021 01:53 | 23.6 | 21.3 | 0.0 | 0 | 0 | 1018 | 1018 | 0 | 7.9 |
| 02/05/2021 02:53 | 23.3 | 21.7 | 0.0 | 0 | 0 | 1018 | 1018 | 0 | 7.3 |
| 02/05/2021 03:53 | 23.4 | 21.7 | 0.0 | 0 | 0 | 1019 | 1018 | -1 | 6.8 |
| 02/05/2021 04:53 | 23.5 | 21.8 | 0.0 | 0 | 0 | 1019 | 1019 | 0 | 6.4 |
| 02/05/2021 05:53 | 23.4 | 21.6 | 0.0 | 0 | 0 | 1019 | 1019 | 0 | 6.0 |
| 02/05/2021 06:53 | 22.9 | 21.8 | 0.0 | 0 | 0 | 1020 | 1020 | 0 | 5.9 |
| 02/05/2021 07:53 | 23.2 | 22.0 | 0.0 | 0 | 1 | 1020 | 1020 | 0 | 6.1 |
| 02/05/2021 08:53 | 24.0 | 21.9 | 0.0 | 0 | 0 | 1021 | 1020 | -1 | 6.9 |
| 02/05/2021 09:53 | 23.8 | 21.6 | 0.0 | 0 | 0 | 1021 | 1021 | 0 | 8.1 |
| 02/05/2021 10:53 | 24.0 | 21.8 | 0.0 | 0 | 1 | 1021 | 1020 | -1 | 9.6 |
| 02/05/2021 11:53 | 23.4 | 21.9 | 0.0 | 0 | 2 | 1021 | 1020 | -1 | 11.1 |
| 02/05/2021 12:53 | 23.2 | 21.5 | 0.0 | 0 | 2 | 1021 | 1020 | -1 | 12.1 |
| 02/05/2021 13:53 | 23.0 | 21.6 | 0.0 | 0 | 2 | 1020 | 1020 | 0 | 12.4 |
| 02/05/2021 14:53 | 23.4 | 21.7 | 0.0 | 0 | 2 | 1020 | 1020 | 0 | 12.6 |
| 02/05/2021 15:53 | 23.4 | 21.5 | 0.0 | 0 | 3 | 1020 | 1020 | 0 | 13.1 |
| 02/05/2021 16:53 | 23.2 | 21.6 | 0.0 | 0 | 3 | 1020 | 1020 | 0 | 13.8 |
| 02/05/2021 17:53 | 23.0 | 21.6 | 0.0 | 0 | 3 | 1020 | 1020 | 0 | 13.8 |
| 02/05/2021 18:53 | 23.2 | 21.5 | 0.0 | 0 | 2 | 1020 | 1020 | 0 | 13.4 |
| 02/05/2021 19:53 | 22.9 | 21.6 | 0.0 | 0 | 2 | 1020 | 1020 | 0 | 12.8 |
| 02/05/2021 20:53 | 23.0 | 21.6 | 0.0 | 0 | 2 | 1020 | 1021 | 1 | 11.9 |
| 02/05/2021 21:53 | 22.9 | 21.6 | 0.0 | 0 | 1 | 1020 | 1021 | 1 | 10.9 |
| 02/05/2021 22:53 | 23.7 | 21.7 | 0.0 | 0 | 1 | 1021 | 1021 | 0 | 10.4 |
| 02/05/2021 23:53 | 23.1 | 21.6 | 0.0 | 0 | 1 | 1021 | 1021 | 0 | 10.0 |
| 03/05/2021 00:53 | 23.0 | 21.6 | 0.0 | 0 | 1 | 1021 | 1021 | 0 | 9.4 |
| 03/05/2021 01:53 | 22.7 | 21.7 | 0.0 | 0 | 1 | 1021 | 1021 | 0 | 8.8 |
| 03/05/2021 02:53 | 23.2 | 21.8 | 0.0 | 0 | 1 | 1020 | 1020 | 0 | 8.3 |
| 03/05/2021 03:53 | 23.2 | 21.7 | 0.0 | 0 | 1 | 1020 | 1020 | 0 | 7.8 |
| 03/05/2021 04:53 | 23.4 | 21.5 | 0.0 | 0 | 0 | 1020 | 1020 | 0 | 7.6 |
| 03/05/2021 05:53 | 23.2 | 21.9 | 0.0 | 0 | 0 | 1020 | 1019 | -1 | 7.4 |
| 03/05/2021 06:53 | 23.6 | 22.0 | 0.0 | 0 | 0 | 1020 | 1019 | -1 | 7.3 |
| 03/05/2021 07:53 | 23.7 | 22.1 | 0.0 | 0 | 0 | 1019 | 1019 | 0 | 7.4 |
| 03/05/2021 08:53 | 24.1 | 22.1 | 0.0 | 0 | 1 | 1019 | 1019 | 0 | 8.3 |
| 03/05/2021 09:53 | 24.0 | 22.1 | 0.0 | 0 | 2 | 1018 | 1018 | 0 | 9.4 |
| 03/05/2021 10:53 | 24.3 | 22.0 | 0.0 | 0 | 2 | 1017 | 1017 | 0 | 10.8 |
| 03/05/2021 11:53 | 24.3 | 21.9 | 0.0 | 0 | 2 | 1017 | 1016 | -1 | 12.1 |

| Date and Time | $CH_4$ % v/v | $CO_2$ % v/v | $O_2$ % v/v | $H_2S$ ppm/v | CO ppm/v | Borehole Pressure mbar | Atmospheric Pressure mbar | Differential Pressure mbar | Temperature °C |
|---|---|---|---|---|---|---|---|---|---|
| 03/05/2021 12:53 | 24.4 | 21.9 | 0.0 | 0 | 3 | 1015 | 1015 | 0 | 13.5 |
| 03/05/2021 13:53 | 24.4 | 21.8 | 0.0 | 0 | 3 | 1014 | 1014 | 0 | 14.1 |
| 03/05/2021 14:53 | 24.4 | 21.7 | 0.0 | 0 | 3 | 1013 | 1012 | -1 | 14.2 |
| 03/05/2021 15:53 | 24.3 | 21.7 | 0.0 | 0 | 3 | 1011 | 1011 | 0 | 14.0 |
| 03/05/2021 16:53 | 24.5 | 21.8 | 0.0 | 0 | 3 | 1009 | 1009 | 0 | 13.6 |
| 03/05/2021 17:53 | 24.6 | 21.7 | 0.0 | 0 | 3 | 1008 | 1007 | -1 | 13.1 |
| 03/05/2021 18:53 | 24.5 | 21.6 | 0.0 | 0 | 3 | 1006 | 1006 | 0 | 12.7 |
| 03/05/2021 19:53 | 24.4 | 21.7 | 0.0 | 0 | 2 | 1004 | 1003 | -1 | 12.1 |
| 03/05/2021 20:53 | 24.8 | 21.9 | 0.0 | 0 | 1 | 1002 | 1002 | 0 | 11.6 |
| 03/05/2021 21:53 | 25.6 | 22.0 | 0.0 | 0 | 2 | 1000 | 1000 | 0 | 11.3 |
| 03/05/2021 22:53 | 25.3 | 21.7 | 0.0 | 0 | 2 | 999 | 999 | 0 | 11.0 |
| 03/05/2021 23:53 | 25.4 | 22.0 | 0.0 | 0 | 1 | 998 | 998 | 0 | 10.9 |
| 04/05/2021 00:53 | 25.5 | 21.8 | 0.0 | 0 | 2 | 998 | 997 | -1 | 10.8 |
| 04/05/2021 01:53 | 25.3 | 21.5 | 0.0 | 0 | 2 | 997 | 997 | 0 | 10.6 |
| 04/05/2021 02:53 | 25.5 | 21.8 | 0.0 | 0 | 1 | 997 | 997 | 0 | 10.4 |
| 04/05/2021 03:53 | 25.9 | 21.5 | 0.0 | 0 | 1 | 997 | 997 | 0 | 10.3 |
| 04/05/2021 04:53 | 25.9 | 21.9 | 0.0 | 0 | 1 | 997 | 996 | -1 | 10.1 |
| 04/05/2021 05:53 | 26.3 | 21.9 | 0.0 | 0 | 1 | 998 | 998 | 0 | 9.9 |
| 04/05/2021 06:53 | 26.4 | 21.9 | 0.0 | 0 | 1 | 999 | 999 | 0 | 9.8 |
| 04/05/2021 07:53 | 26.5 | 21.8 | 0.0 | 0 | 1 | 1000 | 1000 | 0 | 9.7 |
| 04/05/2021 08:53 | 26.2 | 21.8 | 0.0 | 0 | 1 | 1001 | 1000 | -1 | 10.1 |
| 04/05/2021 09:53 | 26.2 | 21.9 | 0.0 | 0 | 1 | 1002 | 1001 | -1 | 10.9 |
| 04/05/2021 10:53 | 26.1 | 21.8 | 0.0 | 0 | 2 | 1003 | 1002 | -1 | 11.6 |
| 04/05/2021 11:53 | 26.2 | 21.9 | 0.0 | 0 | 2 | 1003 | 1003 | 0 | 12.3 |
| 04/05/2021 12:53 | 25.8 | 21.8 | 0.0 | 0 | 3 | 1003 | 1003 | 0 | 13.1 |
| 04/05/2021 13:53 | 26.3 | 21.8 | 0.0 | 0 | 3 | 1004 | 1003 | -1 | 14.1 |
| 04/05/2021 14:53 | 26.6 | 21.7 | 0.0 | 0 | 3 | 1004 | 1003 | -1 | 14.9 |
| 04/05/2021 15:53 | 26.9 | 21.9 | 0.0 | 0 | 3 | 1004 | 1003 | -1 | 15.2 |
| 04/05/2021 16:53 | 26.7 | 22.0 | 0.0 | 0 | 4 | 1004 | 1004 | 0 | 15.8 |
| 04/05/2021 17:53 | 26.9 | 22.2 | 0.0 | 0 | 3 | 1004 | 1004 | 0 | 15.7 |
| 04/05/2021 18:53 | 27.5 | 22.0 | 0.0 | 0 | 2 | 1004 | 1005 | 1 | 14.9 |
| 04/05/2021 19:53 | 27.0 | 22.2 | 0.0 | 0 | 2 | 1005 | 1005 | 0 | 13.8 |
| 04/05/2021 20:53 | 27.5 | 22.3 | 0.0 | 0 | 2 | 1005 | 1006 | 1 | 12.7 |
| 04/05/2021 21:53 | 27.7 | 22.2 | 0.0 | 0 | 1 | 1006 | 1006 | 0 | 11.8 |
| 04/05/2021 22:53 | 27.8 | 22.3 | 0.0 | 0 | 1 | 1006 | 1006 | 0 | 11.0 |
| 04/05/2021 23:53 | 27.7 | 22.5 | 0.0 | 0 | 2 | 1006 | 1006 | 0 | 10.4 |
| 05/05/2021 00:53 | 28.3 | 22.7 | 0.0 | 0 | 2 | 1007 | 1006 | -1 | 9.9 |
| 05/05/2021 01:53 | 27.9 | 22.2 | 0.0 | 0 | 1 | 1007 | 1006 | -1 | 9.4 |
| 05/05/2021 02:53 | 27.9 | 22.5 | 0.0 | 0 | 1 | 1007 | 1006 | -1 | 8.9 |
| 05/05/2021 03:53 | 28.1 | 22.2 | 0.0 | 0 | 1 | 1007 | 1007 | 0 | 8.4 |
| 05/05/2021 04:53 | 28.3 | 22.3 | 0.0 | 0 | 1 | 1007 | 1007 | 0 | 8.1 |
| 05/05/2021 05:53 | 28.1 | 22.3 | 0.0 | 0 | 0 | 1008 | 1008 | 0 | 7.8 |
| 05/05/2021 06:53 | 28.5 | 22.5 | 0.0 | 0 | 1 | 1008 | 1008 | 0 | 7.5 |
| 05/05/2021 07:53 | 28.1 | 22.3 | 0.0 | 0 | 1 | 1009 | 1009 | 0 | 7.6 |
| 05/05/2021 08:53 | 28.3 | 22.6 | 0.0 | 0 | 1 | 1010 | 1009 | -1 | 8.7 |
| 05/05/2021 09:53 | 28.5 | 22.4 | 0.0 | 0 | 2 | 1010 | 1009 | -1 | 10.2 |
| 05/05/2021 10:53 | 28.1 | 22.3 | 0.0 | 0 | 3 | 1010 | 1009 | -1 | 11.5 |
| 05/05/2021 11:53 | 28.1 | 22.3 | 0.0 | 0 | 3 | 1010 | 1010 | 0 | 12.4 |
| 05/05/2021 12:53 | 27.8 | 22.3 | 0.0 | 0 | 4 | 1010 | 1010 | 0 | 13.2 |
| 05/05/2021 13:53 | 27.9 | 22.4 | 0.0 | 0 | 3 | 1011 | 1010 | -1 | 13.6 |
| 05/05/2021 14:53 | 28.1 | 22.3 | 0.0 | 0 | 3 | 1011 | 1010 | -1 | 14.0 |
| 05/05/2021 15:53 | 28.5 | 22.4 | 0.0 | 0 | 3 | 1010 | 1010 | 0 | 13.8 |
| 05/05/2021 16:53 | 28.1 | 22.4 | 0.0 | 0 | 3 | 1009 | 1009 | 0 | 14.0 |
| 05/05/2021 17:53 | 28.2 | 22.2 | 0.0 | 0 | 3 | 1010 | 1010 | 0 | 14.1 |
| 05/05/2021 18:53 | 28.2 | 22.4 | 0.0 | 0 | 3 | 1010 | 1010 | 0 | 13.1 |
| 05/05/2021 19:53 | 28.1 | 22.4 | 0.0 | 0 | 2 | 1010 | 1009 | -1 | 12.3 |
| 05/05/2021 20:53 | 27.9 | 22.5 | 0.0 | 0 | 2 | 1010 | 1010 | 0 | 11.6 |
| 05/05/2021 21:53 | 28.4 | 22.7 | 0.0 | 0 | 2 | 1010 | 1010 | 0 | 10.7 |
| 05/05/2021 22:53 | 28.4 | 22.6 | 0.0 | 0 | 1 | 1010 | 1010 | 0 | 9.9 |
| 05/05/2021 23:53 | 28.1 | 22.6 | 0.0 | 0 | 1 | 1010 | 1009 | -1 | 9.3 |
| 06/05/2021 00:53 | 28.1 | 22.4 | 0.0 | 0 | 1 | 1009 | 1009 | 0 | 8.8 |
| 06/05/2021 01:53 | 28.5 | 22.4 | 0.0 | 0 | 2 | 1009 | 1009 | 0 | 8.3 |
| 06/05/2021 02:53 | 28.1 | 22.5 | 0.0 | 0 | 0 | 1008 | 1008 | 0 | 7.9 |
| 06/05/2021 03:53 | 27.8 | 22.3 | 0.0 | 0 | 1 | 1008 | 1007 | -1 | 7.5 |
| 06/05/2021 04:53 | 27.8 | 22.5 | 0.0 | 0 | 0 | 1007 | 1006 | -1 | 7.1 |
| 06/05/2021 05:53 | 28.1 | 22.5 | 0.0 | 0 | 1 | 1006 | 1006 | 0 | 6.6 |
| 06/05/2021 06:53 | 28.3 | 22.4 | 0.0 | 0 | 1 | 1006 | 1006 | 0 | 6.5 |
| 06/05/2021 07:53 | 28.0 | 22.7 | 0.0 | 0 | 1 | 1006 | 1006 | 0 | 6.7 |
| 06/05/2021 08:53 | 28.5 | 22.4 | 0.0 | 0 | 1 | 1006 | 1005 | -1 | 7.8 |
| 06/05/2021 09:53 | 28.3 | 22.4 | 0.0 | 0 | 1 | 1006 | 1005 | -1 | 9.3 |
| 06/05/2021 10:53 | 28.3 | 22.2 | 0.0 | 0 | 2 | 1005 | 1005 | 0 | 10.1 |
| 06/05/2021 11:53 | 28.5 | 22.4 | 0.0 | 0 | 3 | 1005 | 1005 | 0 | 10.7 |
| 06/05/2021 12:53 | 28.1 | 22.2 | 0.0 | 0 | 3 | 1005 | 1005 | 0 | 11.8 |
| 06/05/2021 13:53 | 28.4 | 22.4 | 0.0 | 0 | 3 | 1005 | 1005 | 0 | 12.7 |
| 06/05/2021 14:53 | 28.4 | 22.3 | 0.0 | 0 | 3 | 1005 | 1005 | 0 | 13.4 |
| 06/05/2021 15:53 | 28.2 | 22.2 | 0.0 | 0 | 3 | 1006 | 1006 | 0 | 13.8 |
| 06/05/2021 16:53 | 28.3 | 22.6 | 0.0 | 0 | 3 | 1006 | 1006 | 0 | 14.1 |
| 06/05/2021 17:53 | 28.1 | 22.2 | 0.0 | 0 | 3 | 1006 | 1006 | 0 | 14.4 |
| 06/05/2021 18:53 | 28.2 | 22.3 | 0.0 | 0 | 4 | 1007 | 1007 | 0 | 14.3 |
| 06/05/2021 19:53 | 28.4 | 22.5 | 0.0 | 0 | 3 | 1008 | 1008 | 0 | 13.6 |
| 06/05/2021 20:53 | 28.6 | 22.5 | 0.0 | 0 | 2 | 1008 | 1009 | 1 | 12.4 |
| 06/05/2021 21:53 | 28.1 | 22.6 | 0.0 | 0 | 1 | 1009 | 1009 | 0 | 11.3 |
| 06/05/2021 22:53 | 28.7 | 22.6 | 0.0 | 0 | 0 | 1010 | 1010 | 0 | 10.2 |
| 06/05/2021 23:53 | 28.8 | 22.8 | 0.0 | 0 | 1 | 1011 | 1011 | 0 | 9.5 |
| 07/05/2021 00:53 | 28.7 | 22.6 | 0.0 | 0 | 1 | 1011 | 1011 | 0 | 8.9 |
| 07/05/2021 01:53 | 28.4 | 22.5 | 0.0 | 0 | 1 | 1012 | 1012 | 0 | 8.6 |
| 07/05/2021 02:53 | 28.5 | 22.4 | 0.0 | 0 | 1 | 1013 | 1013 | 0 | 8.2 |
| 07/05/2021 03:53 | 28.0 | 22.9 | 0.0 | 0 | 0 | 1013 | 1013 | 0 | 7.8 |
| 07/05/2021 04:53 | 27.8 | 22.8 | 0.0 | 0 | 1 | 1014 | 1013 | -1 | 7.4 |
| 07/05/2021 05:53 | 28.0 | 22.8 | 0.0 | 0 | 1 | 1014 | 1014 | 0 | 6.9 |
| 07/05/2021 06:53 | 28.1 | 22.8 | 0.0 | 0 | 0 | 1015 | 1015 | 0 | 6.5 |
| 07/05/2021 07:53 | 28.3 | 22.7 | 0.0 | 0 | 1 | 1016 | 1015 | -1 | 6.6 |
| 07/05/2021 08:53 | 28.3 | 22.5 | 0.0 | 0 | 1 | 1017 | 1016 | -1 | 7.9 |
| 07/05/2021 09:53 | 28.0 | 22.6 | 0.0 | 0 | 3 | 1017 | 1016 | -1 | 9.7 |
| 07/05/2021 10:53 | 28.1 | 22.5 | 0.0 | 0 | 3 | 1017 | 1017 | 0 | 11.5 |
| 07/05/2021 11:53 | 27.8 | 22.3 | 0.0 | 0 | 3 | 1017 | 1017 | 0 | 12.9 |
| 07/05/2021 12:53 | 28.0 | 22.6 | 0.0 | 0 | 4 | 1017 | 1017 | 0 | 13.8 |
| 07/05/2021 13:53 | 27.8 | 22.8 | 0.0 | 0 | 3 | 1017 | 1017 | 0 | 14.3 |
| 07/05/2021 14:53 | 28.2 | 22.4 | 0.0 | 0 | 3 | 1017 | 1017 | 0 | 14.6 |
| 07/05/2021 15:53 | 27.5 | 22.3 | 0.0 | 0 | 4 | 1017 | 1016 | -1 | 15.8 |
| 07/05/2021 16:53 | 27.6 | 22.3 | 0.0 | 0 | 4 | 1017 | 1016 | -1 | 16.3 |
| 07/05/2021 17:53 | 27.3 | 22.3 | 0.0 | 0 | 3 | 1016 | 1016 | 0 | 15.6 |
| 07/05/2021 18:53 | 27.7 | 22.4 | 0.0 | 0 | 3 | 1016 | 1016 | 0 | 14.8 |
| 07/05/2021 19:53 | 27.6 | 22.5 | 0.0 | 0 | 2 | 1016 | 1016 | 0 | 13.9 |
| 07/05/2021 20:53 | 27.6 | 22.3 | 0.0 | 0 | 3 | 1015 | 1016 | 1 | 13.1 |
| 07/05/2021 21:53 | 27.4 | 22.6 | 0.0 | 0 | 2 | 1015 | 1015 | 0 | 12.4 |
| 07/05/2021 22:53 | 27.6 | 22.6 | 0.0 | 0 | 2 | 1014 | 1014 | 0 | 11.9 |
| 07/05/2021 23:53 | 27.4 | 22.5 | 0.0 | 0 | 2 | 1014 | 1014 | 0 | 11.6 |
| 08/05/2021 00:53 | 27.1 | 22.4 | 0.0 | 0 | 2 | 1013 | 1013 | 0 | 11.4 |
| 08/05/2021 01:53 | 27.6 | 22.1 | 0.0 | 0 | 2 | 1012 | 1012 | 0 | 11.2 |
| 08/05/2021 02:53 | 27.9 | 22.5 | 0.0 | 0 | 2 | 1011 | 1010 | -1 | 11.0 |
| 08/05/2021 03:53 | 27.9 | 22.4 | 0.0 | 0 | 2 | 1009 | 1009 | 0 | 10.8 |
| 08/05/2021 04:53 | 27.7 | 22.5 | 0.0 | 0 | 2 | 1008 | 1007 | -1 | 10.7 |
| 08/05/2021 05:53 | 28.1 | 22.4 | 0.0 | 0 | 2 | 1007 | 1007 | 0 | 10.7 |

| Date and Time | $CH_4$ % v/v | $CO_2$ % v/v | $O_2$ % v/v | $H_2S$ ppm/v | CO ppm/v | Borehole Pressure mbar | Atmospheric Pressure mbar | Differential Pressure mbar | Temperature °C |
|---|---|---|---|---|---|---|---|---|---|
| 08/05/2021 06:53 | 27.9 | 22.3 | 0.0 | 0 | 2 | 1006 | 1005 | -1 | 10.7 |
| 08/05/2021 07:53 | 28.1 | 22.3 | 0.0 | 0 | 2 | 1004 | 1004 | 0 | 10.8 |
| 08/05/2021 08:53 | 28.4 | 22.5 | 0.0 | 0 | 2 | 1004 | 1004 | 0 | 10.9 |
| 08/05/2021 09:53 | 28.4 | 22.3 | 0.0 | 0 | 2 | 1004 | 1004 | 0 | 11.0 |
| 08/05/2021 10:53 | 28.1 | 22.2 | 0.0 | 0 | 2 | 1004 | 1003 | -1 | 11.3 |
| 08/05/2021 11:53 | 28.8 | 22.2 | 0.0 | 0 | 2 | 1004 | 1003 | -1 | 11.6 |
| 08/05/2021 12:53 | 27.6 | 22.0 | 0.0 | 0 | 2 | 1004 | 1003 | -1 | 12.0 |
| 08/05/2021 13:53 | 27.6 | 22.3 | 0.0 | 0 | 2 | 1004 | 1003 | -1 | 12.6 |
| 08/05/2021 14:53 | 27.8 | 22.2 | 0.0 | 0 | 3 | 1004 | 1004 | 0 | 13.1 |
| 08/05/2021 15:53 | 27.9 | 22.2 | 0.0 | 0 | 3 | 1004 | 1003 | -1 | 13.4 |
| 08/05/2021 16:53 | 27.6 | 22.1 | 0.0 | 0 | 3 | 1004 | 1003 | -1 | 13.7 |
| 08/05/2021 17:53 | 27.5 | 22.0 | 0.0 | 0 | 3 | 1003 | 1003 | 0 | 14.0 |
| 08/05/2021 18:53 | 27.0 | 22.2 | 0.0 | 0 | 3 | 1003 | 1003 | 0 | 14.2 |
| 08/05/2021 19:53 | 26.9 | 21.9 | 0.0 | 0 | 3 | 1002 | 1002 | 0 | 14.1 |
| 08/05/2021 20:53 | 26.9 | 22.1 | 0.0 | 0 | 2 | 1002 | 1002 | 0 | 13.8 |
| 08/05/2021 21:53 | 27.2 | 21.9 | 0.0 | 0 | 2 | 1002 | 1002 | 0 | 13.6 |
| 08/05/2021 22:53 | 27.3 | 22.2 | 0.0 | 0 | 2 | 1001 | 1002 | 1 | 13.3 |
| 08/05/2021 23:53 | 27.3 | 21.9 | 0.0 | 0 | 2 | 1001 | 1001 | 0 | 12.8 |
| 09/05/2021 00:53 | 27.1 | 21.9 | 0.0 | 0 | 2 | 1000 | 1000 | 0 | 12.6 |
| 09/05/2021 01:53 | 27.5 | 21.9 | 0.0 | 0 | 1 | 999 | 999 | 0 | 12.4 |
| 09/05/2021 02:53 | 27.2 | 21.9 | 0.0 | 0 | 2 | 999 | 999 | 0 | 12.2 |
| 09/05/2021 03:53 | 27.1 | 21.8 | 0.0 | 0 | 1 | 998 | 998 | 0 | 12.0 |
| 09/05/2021 04:53 | 26.8 | 21.9 | 0.0 | 0 | 2 | 998 | 997 | -1 | 11.9 |
| 09/05/2021 05:53 | 27.1 | 22.1 | 0.0 | 0 | 1 | 998 | 997 | -1 | 11.7 |
| 09/05/2021 06:53 | 26.8 | 22.1 | 0.0 | 0 | 2 | 998 | 998 | 0 | 11.7 |
| 09/05/2021 07:53 | 26.8 | 22.2 | 0.0 | 0 | 1 | 998 | 997 | -1 | 11.8 |
| 09/05/2021 08:53 | 27.1 | 21.8 | 0.0 | 0 | 2 | 997 | 997 | 0 | 12.0 |
| 09/05/2021 09:53 | 26.7 | 21.9 | 0.0 | 0 | 2 | 997 | 996 | -1 | 12.9 |
| 09/05/2021 10:53 | 26.4 | 21.9 | 0.0 | 0 | 3 | 997 | 997 | 0 | 14.0 |
| 09/05/2021 11:53 | 26.6 | 21.8 | 0.0 | 0 | 3 | 997 | 997 | 0 | 14.6 |
| 09/05/2021 12:53 | 26.7 | 21.7 | 0.0 | 0 | 3 | 997 | 996 | -1 | 15.1 |
| 09/05/2021 13:53 | 26.5 | 21.8 | 0.0 | 0 | 3 | 997 | 997 | 0 | 15.4 |
| 09/05/2021 14:53 | 26.8 | 21.7 | 0.0 | 0 | 3 | 997 | 997 | 0 | 15.9 |
| 09/05/2021 15:53 | 26.8 | 21.9 | 0.0 | 0 | 3 | 997 | 996 | -1 | 16.5 |
| 09/05/2021 16:53 | 26.8 | 21.6 | 0.0 | 0 | 3 | 996 | 996 | 0 | 16.4 |
| 09/05/2021 17:53 | 26.7 | 21.7 | 0.0 | 0 | 3 | 995 | 995 | 0 | 16.4 |
| 09/05/2021 18:53 | 26.7 | 21.7 | 0.0 | 0 | 3 | 995 | 996 | 1 | 16.3 |
| 09/05/2021 19:53 | 26.2 | 21.7 | 0.0 | 0 | 3 | 995 | 996 | 1 | 15.9 |
| 09/05/2021 20:53 | 26.4 | 21.8 | 0.0 | 0 | 2 | 995 | 996 | 1 | 15.3 |
| 09/05/2021 21:53 | 26.0 | 21.8 | 0.0 | 0 | 2 | 996 | 996 | 0 | 14.8 |
| 09/05/2021 22:53 | 26.2 | 21.8 | 0.0 | 0 | 2 | 996 | 996 | 0 | 14.3 |
| 09/05/2021 23:53 | 26.6 | 21.9 | 0.0 | 0 | 2 | 996 | 996 | 0 | 13.9 |
| 10/05/2021 00:53 | 26.3 | 21.8 | 0.0 | 0 | 1 | 996 | 996 | 0 | 13.4 |
| 10/05/2021 01:53 | 26.4 | 21.7 | 0.0 | 0 | 2 | 996 | 996 | 0 | 13.1 |
| 10/05/2021 02:53 | 26.4 | 22.1 | 0.0 | 0 | 2 | 996 | 996 | 0 | 12.8 |
| 10/05/2021 03:53 | 26.8 | 21.9 | 0.0 | 0 | 2 | 996 | 996 | 0 | 12.5 |
| 10/05/2021 04:53 | 27.1 | 22.0 | 0.0 | 0 | 1 | 997 | 996 | -1 | 12.3 |
| 10/05/2021 05:53 | 26.8 | 22.0 | 0.0 | 0 | 1 | 997 | 997 | 0 | 12.3 |
| 10/05/2021 06:53 | 26.8 | 22.0 | 0.0 | 0 | 2 | 997 | 997 | 0 | 12.1 |
| 10/05/2021 07:53 | 26.4 | 21.8 | 0.0 | 0 | 2 | 998 | 998 | 0 | 12.2 |
| 10/05/2021 08:53 | 26.6 | 22.3 | 0.0 | 0 | 1 | 998 | 998 | 0 | 12.5 |
| 10/05/2021 09:53 | 26.7 | 22.1 | 0.0 | 0 | 1 | 999 | 999 | 0 | 12.8 |
| 10/05/2021 10:53 | 26.3 | 21.9 | 0.0 | 0 | 1 | 1000 | 999 | -1 | 13.3 |
| 10/05/2021 11:53 | 26.6 | 21.8 | 0.0 | 0 | 2 | 1001 | 1000 | -1 | 14.2 |
| 10/05/2021 12:53 | 26.5 | 22.1 | 0.0 | 0 | 3 | 1001 | 1001 | 0 | 14.7 |
| 10/05/2021 13:53 | 26.4 | 21.8 | 0.0 | 0 | 2 | 1002 | 1002 | 0 | 15.3 |
| 10/05/2021 14:53 | 26.0 | 21.7 | 0.0 | 0 | 3 | 1002 | 1002 | 0 | 16.1 |
| 10/05/2021 15:53 | 26.1 | 21.9 | 0.0 | 0 | 3 | 1003 | 1003 | 0 | 17.2 |
| 10/05/2021 16:53 | 25.8 | 21.7 | 0.0 | 0 | 4 | 1003 | 1003 | 0 | 18.1 |
| 10/05/2021 17:53 | 26.1 | 21.7 | 0.0 | 0 | 3 | 1003 | 1003 | 0 | 18.5 |
| 10/05/2021 18:53 | 25.8 | 21.8 | 0.0 | 0 | 3 | 1003 | 1003 | 0 | 18.0 |
| 10/05/2021 19:53 | 25.4 | 21.8 | 0.0 | 0 | 2 | 1004 | 1004 | 0 | 17.1 |
| 10/05/2021 20:53 | 25.7 | 21.9 | 0.0 | 0 | 2 | 1004 | 1005 | 1 | 15.9 |
| 10/05/2021 21:53 | 25.7 | 21.9 | 0.0 | 0 | 1 | 1005 | 1005 | 0 | 14.8 |
| 10/05/2021 22:53 | 26.3 | 22.1 | 0.0 | 0 | 2 | 1005 | 1006 | 1 | 14.1 |
| 10/05/2021 23:53 | 26.0 | 21.8 | 0.0 | 0 | 1 | 1006 | 1006 | 0 | 13.4 |
| 11/05/2021 00:53 | 26.0 | 21.9 | 0.0 | 0 | 1 | 1006 | 1006 | 0 | 12.9 |
| 11/05/2021 01:53 | 26.0 | 21.8 | 0.0 | 0 | 1 | 1006 | 1006 | 0 | 12.8 |
| 11/05/2021 02:53 | 25.4 | 21.9 | 0.0 | 0 | 1 | 1005 | 1005 | 0 | 12.5 |
| 11/05/2021 03:53 | 25.5 | 22.2 | 0.0 | 0 | 1 | 1005 | 1005 | 0 | 12.1 |
| 11/05/2021 04:53 | 26.0 | 22.1 | 0.0 | 0 | 1 | 1005 | 1005 | 0 | 11.6 |
| 11/05/2021 05:53 | 26.0 | 22.0 | 0.0 | 0 | 0 | 1006 | 1006 | 0 | 11.2 |
| 11/05/2021 06:53 | 26.0 | 21.9 | 0.0 | 0 | 1 | 1006 | 1006 | 0 | 11.0 |
| 11/05/2021 07:53 | 26.2 | 22.0 | 0.0 | 0 | 1 | 1006 | 1006 | 0 | 11.4 |
| 11/05/2021 08:53 | 26.2 | 22.4 | 0.0 | 0 | 2 | 1007 | 1006 | -1 | 12.3 |
| 11/05/2021 09:53 | 26.3 | 21.9 | 0.0 | 0 | 2 | 1007 | 1006 | -1 | 13.1 |
| 11/05/2021 10:53 | 26.3 | 22.1 | 0.0 | 0 | 2 | 1007 | 1007 | 0 | 14.2 |
| 11/05/2021 11:53 | 26.4 | 22.1 | 0.0 | 0 | 2 | 1007 | 1007 | 0 | 15.1 |
| 11/05/2021 12:53 | 26.5 | 22.1 | 0.0 | 0 | 3 | 1007 | 1007 | 0 | 15.4 |
| 11/05/2021 13:53 | 26.1 | 21.9 | 0.0 | 0 | 2 | 1007 | 1007 | 0 | 15.7 |
| 11/05/2021 14:53 | 26.3 | 21.8 | 0.0 | 0 | 3 | 1007 | 1007 | 0 | 16.4 |
| 11/05/2021 15:53 | 26.0 | 22.0 | 0.0 | 0 | 4 | 1007 | 1006 | -1 | 17.2 |
| 11/05/2021 16:53 | 26.8 | 21.8 | 0.0 | 0 | 3 | 1006 | 1006 | 0 | 17.3 |
| 11/05/2021 17:53 | 26.3 | 22.0 | 0.0 | 0 | 3 | 1006 | 1006 | 0 | 16.6 |
| 11/05/2021 18:53 | 26.0 | 21.8 | 0.0 | 0 | 2 | 1006 | 1006 | 0 | 15.9 |
| 11/05/2021 19:53 | 25.9 | 21.8 | 0.0 | 0 | 1 | 1007 | 1007 | 0 | 15.4 |
| 11/05/2021 20:53 | 26.4 | 22.0 | 0.0 | 0 | 2 | 1007 | 1007 | 0 | 14.8 |
| 11/05/2021 21:53 | 26.2 | 21.9 | 0.0 | 0 | 1 | 1008 | 1008 | 0 | 14.3 |
| 11/05/2021 22:53 | 25.5 | 22.2 | 0.0 | 0 | 2 | 1008 | 1008 | 0 | 13.8 |
| 11/05/2021 23:53 | 26.3 | 22.2 | 0.0 | 0 | 1 | 1008 | 1008 | 0 | 13.5 |
| 12/05/2021 00:53 | 26.0 | 22.3 | 0.0 | 0 | 1 | 1008 | 1008 | 0 | 13.2 |
| 12/05/2021 01:53 | 26.0 | 22.0 | 0.0 | 0 | 1 | 1008 | 1008 | 0 | 12.9 |
| 12/05/2021 02:53 | 26.4 | 22.2 | 0.0 | 0 | 1 | 1008 | 1008 | 0 | 12.6 |
| 12/05/2021 03:53 | 26.5 | 22.2 | 0.0 | 0 | 0 | 1008 | 1008 | 0 | 12.1 |
| 12/05/2021 04:53 | 26.2 | 22.4 | 0.0 | 0 | 0 | 1008 | 1008 | 0 | 11.6 |
| 12/05/2021 05:53 | 26.0 | 22.3 | 0.0 | 0 | 1 | 1008 | 1008 | 0 | 11.2 |
| 12/05/2021 06:53 | 26.6 | 22.1 | 0.0 | 0 | 1 | 1009 | 1009 | 0 | 10.9 |
| 12/05/2021 07:53 | 26.6 | 22.2 | 0.0 | 0 | 1 | 1009 | 1009 | 0 | 11.1 |
| 12/05/2021 08:53 | 26.8 | 22.2 | 0.0 | 0 | 1 | 1009 | 1009 | 0 | 12.1 |
| 12/05/2021 09:53 | 26.7 | 22.2 | 0.0 | 0 | 2 | 1009 | 1009 | 0 | 13.3 |
| 12/05/2021 10:53 | 26.9 | 22.2 | 0.0 | 0 | 1 | 1009 | 1009 | 0 | 13.6 |
| 12/05/2021 11:53 | 26.7 | 22.3 | 0.0 | 0 | 2 | 1009 | 1009 | 0 | 14.4 |
| 12/05/2021 12:53 | 26.7 | 21.9 | 0.0 | 0 | 3 | 1009 | 1009 | 0 | 15.5 |
| 12/05/2021 13:53 | 27.0 | 22.1 | 0.0 | 0 | 3 | 1008 | 1008 | 0 | 16.5 |
| 12/05/2021 14:53 | 26.7 | 22.1 | 0.0 | 0 | 3 | 1008 | 1008 | 0 | 17.2 |
| 12/05/2021 15:53 | 26.7 | 22.0 | 0.0 | 0 | 2 | 1008 | 1008 | 0 | 17.8 |
| 12/05/2021 16:53 | 26.8 | 22.0 | 0.0 | 0 | 4 | 1007 | 1007 | 0 | 17.8 |
| 12/05/2021 17:53 | 26.7 | 22.0 | 0.0 | 0 | 2 | 1007 | 1007 | 0 | 17.1 |
| 12/05/2021 18:53 | 27.0 | 21.9 | 0.0 | 0 | 2 | 1006 | 1007 | 1 | 16.5 |
| 12/05/2021 19:53 | 27.1 | 22.3 | 0.0 | 0 | 3 | 1006 | 1006 | 0 | 16.0 |
| 12/05/2021 20:53 | 27.2 | 22.0 | 0.0 | 0 | 2 | 1006 | 1006 | 0 | 15.5 |
| 12/05/2021 21:53 | 27.3 | 22.2 | 0.0 | 0 | 1 | 1006 | 1006 | 0 | 15.0 |
| 12/05/2021 22:53 | 27.3 | 22.3 | 0.0 | 0 | 2 | 1005 | 1005 | 0 | 14.6 |
| 12/05/2021 23:53 | 28.1 | 22.5 | 0.0 | 0 | 2 | 1005 | 1005 | 0 | 14.3 |

| Date and Time | $CH_4$ % v/v | $CO_2$ % v/v | $O_2$ % v/v | $H_2S$ ppm/v | CO ppm/v | Borehole Pressure mbar | Atmospheric Pressure mbar | Differential Pressure mbar | Temperature °C |
|---|---|---|---|---|---|---|---|---|---|
| 13/05/2021 00:53 | 28.2 | 22.5 | 0.0 | 0 | 2 | 1004 | 1004 | 0 | 14.1 |
| 13/05/2021 01:53 | 28.1 | 22.4 | 0.0 | 0 | 1 | 1004 | 1004 | 0 | 13.9 |
| 13/05/2021 02:53 | 28.4 | 22.6 | 0.0 | 0 | 2 | 1004 | 1004 | 0 | 13.8 |
| 13/05/2021 03:53 | 29.0 | 22.6 | 0.0 | 0 | 2 | 1004 | 1004 | 0 | 13.5 |
| 13/05/2021 04:53 | 28.7 | 22.6 | 0.0 | 0 | 1 | 1004 | 1003 | -1 | 13.1 |
| 13/05/2021 05:53 | 28.8 | 22.7 | 0.0 | 0 | 1 | 1003 | 1003 | 0 | 12.8 |
| 13/05/2021 06:53 | 29.0 | 22.8 | 0.0 | 0 | 2 | 1003 | 1003 | 0 | 12.5 |
| 13/05/2021 07:53 | 29.3 | 22.8 | 0.0 | 0 | 1 | 1003 | 1003 | 0 | 12.4 |
| 13/05/2021 08:53 | 29.5 | 22.9 | 0.0 | 0 | 2 | 1004 | 1003 | -1 | 12.3 |
| 13/05/2021 09:53 | 29.2 | 22.8 | 0.0 | 0 | 2 | 1004 | 1003 | -1 | 12.5 |
| 13/05/2021 10:53 | 29.5 | 22.6 | 0.0 | 0 | 1 | 1004 | 1004 | 0 | 12.8 |
| 13/05/2021 11:53 | 29.3 | 22.6 | 0.0 | 0 | 1 | 1004 | 1004 | 0 | 13.1 |
| 13/05/2021 12:53 | 29.6 | 22.7 | 0.0 | 0 | 2 | 1004 | 1004 | 0 | 13.8 |
| 13/05/2021 13:53 | 29.3 | 22.5 | 0.0 | 0 | 3 | 1004 | 1004 | 0 | 14.6 |
| 13/05/2021 14:53 | 29.3 | 22.6 | 0.0 | 0 | 2 | 1004 | 1004 | 0 | 15.2 |
| 13/05/2021 15:53 | 28.8 | 22.4 | 0.0 | 0 | 2 | 1004 | 1004 | 0 | 15.2 |
| 13/05/2021 16:53 | 29.1 | 22.4 | 0.0 | 0 | 2 | 1004 | 1004 | 0 | 14.9 |
| 13/05/2021 17:53 | 29.3 | 22.5 | 0.0 | 0 | 2 | 1004 | 1004 | 0 | 14.8 |
| 13/05/2021 18:53 | 29.7 | 22.6 | 0.0 | 0 | 2 | 1004 | 1004 | 0 | 14.3 |
| 13/05/2021 19:53 | 29.7 | 22.8 | 0.0 | 0 | 1 | 1004 | 1005 | 1 | 13.8 |
| 13/05/2021 20:53 | 29.8 | 22.8 | 0.0 | 0 | 1 | 1005 | 1005 | 0 | 13.3 |
| 13/05/2021 21:53 | 29.7 | 22.7 | 0.0 | 0 | 1 | 1006 | 1006 | 0 | 12.9 |
| 13/05/2021 22:53 | 29.8 | 22.9 | 0.0 | 0 | 0 | 1006 | 1006 | 0 | 12.6 |
| 13/05/2021 23:53 | 29.3 | 22.9 | 0.0 | 0 | 1 | 1006 | 1006 | 0 | 12.3 |
| 14/05/2021 00:53 | 29.5 | 22.8 | 0.0 | 0 | 1 | 1006 | 1006 | 0 | 12.1 |
| 14/05/2021 01:53 | 29.6 | 23.1 | 0.0 | 0 | 1 | 1006 | 1006 | 0 | 11.9 |
| 14/05/2021 02:53 | 30.0 | 22.9 | 0.0 | 0 | 1 | 1006 | 1006 | 0 | 11.8 |
| 14/05/2021 03:53 | 29.6 | 22.8 | 0.0 | 0 | 1 | 1007 | 1006 | -1 | 11.6 |
| 14/05/2021 04:53 | 30.6 | 23.0 | 0.0 | 0 | 0 | 1007 | 1006 | -1 | 11.6 |
| 14/05/2021 05:53 | 30.1 | 22.7 | 0.0 | 0 | 0 | 1007 | 1007 | 0 | 11.4 |
| 14/05/2021 06:53 | 30.4 | 22.9 | 0.0 | 0 | 1 | 1008 | 1008 | 0 | 11.4 |
| 14/05/2021 07:53 | 30.1 | 22.9 | 0.0 | 0 | 1 | 1009 | 1009 | 0 | 11.6 |
| 14/05/2021 08:53 | 30.0 | 22.9 | 0.0 | 0 | 1 | 1009 | 1009 | 0 | 11.9 |
| 14/05/2021 09:53 | 30.0 | 23.0 | 0.0 | 0 | 1 | 1009 | 1009 | 0 | 12.2 |
| 14/05/2021 10:53 | 30.4 | 23.2 | 0.0 | 0 | 1 | 1010 | 1009 | -1 | 12.5 |
| 14/05/2021 11:53 | 30.0 | 23.2 | 0.0 | 0 | 2 | 1010 | 1009 | -1 | 13.0 |
| 14/05/2021 12:53 | 29.6 | 23.0 | 0.0 | 0 | 1 | 1010 | 1010 | 0 | 13.6 |
| 14/05/2021 13:53 | 30.2 | 22.7 | 0.0 | 0 | 2 | 1010 | 1009 | -1 | 14.1 |
| 14/05/2021 14:53 | 30.2 | 22.6 | 0.0 | 0 | 2 | 1009 | 1009 | 0 | 14.5 |
| 14/05/2021 15:53 | 30.2 | 22.9 | 0.0 | 0 | 2 | 1009 | 1009 | 0 | 14.8 |
| 14/05/2021 16:53 | 29.6 | 22.6 | 0.0 | 0 | 1 | 1009 | 1009 | 0 | 14.7 |
| 14/05/2021 17:53 | 30.1 | 22.7 | 0.0 | 0 | 1 | 1008 | 1009 | 1 | 14.3 |
| 14/05/2021 18:53 | 30.4 | 22.9 | 0.0 | 0 | 1 | 1008 | 1008 | 0 | 14.1 |
| 14/05/2021 19:53 | 29.6 | 22.9 | 0.0 | 0 | 2 | 1008 | 1008 | 0 | 13.8 |
| 14/05/2021 20:53 | 30.3 | 22.6 | 0.0 | 0 | 1 | 1008 | 1008 | 0 | 13.3 |
| 14/05/2021 21:53 | 30.2 | 22.6 | 0.0 | 0 | 1 | 1007 | 1007 | 0 | 12.8 |
| 14/05/2021 22:53 | 30.3 | 23.0 | 0.0 | 0 | 1 | 1007 | 1007 | 0 | 12.4 |
| 14/05/2021 23:53 | 29.8 | 22.8 | 0.0 | 0 | 1 | 1006 | 1006 | 0 | 12.3 |
| 15/05/2021 00:53 | 30.2 | 22.8 | 0.0 | 0 | 1 | 1005 | 1005 | 0 | 12.1 |
| 15/05/2021 01:53 | 30.4 | 22.7 | 0.0 | 0 | 0 | 1004 | 1004 | 0 | 12.1 |
| 15/05/2021 02:53 | 30.3 | 22.7 | 0.0 | 0 | 0 | 1003 | 1003 | 0 | 11.9 |
| 15/05/2021 03:53 | 30.4 | 22.6 | 0.0 | 0 | 0 | 1002 | 1002 | 0 | 11.8 |
| 15/05/2021 04:53 | 30.2 | 22.8 | 0.0 | 0 | 0 | 1001 | 1001 | 0 | 11.6 |
| 15/05/2021 05:53 | 30.7 | 22.7 | 0.0 | 0 | 0 | 1001 | 1001 | 0 | 11.4 |
| 15/05/2021 06:53 | 30.6 | 22.7 | 0.0 | 0 | 0 | 1001 | 1000 | -1 | 11.3 |
| 15/05/2021 07:53 | 30.3 | 22.6 | 0.0 | 0 | 0 | 1000 | 999 | -1 | 11.1 |
| 15/05/2021 08:53 | 30.8 | 22.7 | 0.0 | 0 | 1 | 999 | 999 | 0 | 11.2 |
| 15/05/2021 09:53 | 31.2 | 22.5 | 0.0 | 0 | 1 | 999 | 999 | 0 | 11.3 |
| 15/05/2021 10:53 | 30.6 | 22.7 | 0.0 | 0 | 1 | 999 | 999 | 0 | 11.6 |
| 15/05/2021 11:53 | 31.1 | 22.6 | 0.0 | 0 | 1 | 999 | 999 | 0 | 11.9 |
| 15/05/2021 12:53 | 30.4 | 22.7 | 0.0 | 0 | 1 | 999 | 999 | 0 | 12.4 |
| 15/05/2021 13:53 | 30.8 | 22.5 | 0.0 | 0 | 2 | 999 | 999 | 0 | 13.3 |
| 15/05/2021 14:53 | 30.6 | 22.8 | 0.0 | 0 | 1 | 1000 | 999 | -1 | 14.0 |
| 15/05/2021 15:53 | 30.4 | 22.6 | 0.0 | 0 | 2 | 999 | 999 | 0 | 14.1 |
| 15/05/2021 16:53 | 30.3 | 22.6 | 0.0 | 0 | 1 | 999 | 999 | 0 | 14.4 |
| 15/05/2021 17:53 | 30.3 | 22.6 | 0.0 | 0 | 2 | 999 | 999 | 0 | 14.9 |
| 15/05/2021 18:53 | 31.1 | 22.5 | 0.0 | 0 | 2 | 999 | 999 | 0 | 14.6 |
| 15/05/2021 19:53 | 30.8 | 22.6 | 0.0 | 0 | 1 | 999 | 999 | 0 | 14.1 |
| 15/05/2021 20:53 | 30.6 | 22.5 | 0.0 | 0 | 1 | 1000 | 1000 | 0 | 13.6 |
| 15/05/2021 21:53 | 30.8 | 22.7 | 0.0 | 0 | 1 | 1000 | 1000 | 0 | 13.0 |
| 15/05/2021 22:53 | 31.0 | 22.7 | 0.0 | 0 | 1 | 1000 | 1000 | 0 | 12.7 |
| 15/05/2021 23:53 | 31.1 | 22.7 | 0.0 | 0 | 0 | 1000 | 1000 | 0 | 12.4 |
| 16/05/2021 00:53 | 30.9 | 22.6 | 0.0 | 0 | 1 | 1000 | 1000 | 0 | 12.3 |
| 16/05/2021 01:53 | 31.1 | 22.8 | 0.0 | 0 | 0 | 1000 | 1000 | 0 | 11.9 |
| 16/05/2021 02:53 | 30.6 | 22.5 | 0.0 | 0 | 1 | 999 | 999 | 0 | 11.6 |
| 16/05/2021 03:53 | 30.7 | 22.9 | 0.0 | 0 | 0 | 999 | 999 | 0 | 11.4 |
| 16/05/2021 04:53 | 30.8 | 22.7 | 0.0 | 0 | 1 | 999 | 999 | 0 | 11.2 |
| 16/05/2021 05:53 | 31.3 | 22.3 | 0.0 | 0 | 0 | 999 | 999 | 0 | 11.1 |
| 16/05/2021 06:53 | 30.9 | 22.6 | 0.0 | 0 | 0 | 999 | 999 | 0 | 10.9 |
| 16/05/2021 07:53 | 31.1 | 22.5 | 0.0 | 0 | 0 | 999 | 999 | 0 | 10.9 |
| 16/05/2021 08:53 | 31.2 | 22.7 | 0.0 | 0 | 0 | 999 | 999 | 0 | 11.1 |
| 16/05/2021 09:53 | 31.4 | 22.9 | 0.0 | 0 | 1 | 998 | 998 | 0 | 11.2 |
| 16/05/2021 10:53 | 31.5 | 22.7 | 0.0 | 0 | 0 | 998 | 998 | 0 | 11.6 |
| 16/05/2021 11:53 | 31.3 | 22.8 | 0.0 | 0 | 1 | 998 | 998 | 0 | 12.6 |
| 16/05/2021 12:53 | 31.1 | 22.6 | 0.0 | 0 | 1 | 998 | 997 | -1 | 13.4 |
| 16/05/2021 13:53 | 31.1 | 22.6 | 0.0 | 0 | 1 | 998 | 997 | -1 | 14.1 |
| 16/05/2021 14:53 | 31.5 | 22.6 | 0.0 | 0 | 1 | 997 | 996 | -1 | 14.2 |
| 16/05/2021 15:53 | 31.6 | 22.5 | 0.0 | 0 | 1 | 996 | 996 | 0 | 14.3 |
| 16/05/2021 16:53 | 31.1 | 22.6 | 0.0 | 0 | 1 | 996 | 996 | 0 | 14.6 |
| 16/05/2021 17:53 | 31.1 | 22.6 | 0.0 | 0 | 1 | 995 | 995 | 0 | 14.4 |
| 16/05/2021 18:53 | 31.7 | 22.5 | 0.0 | 0 | 0 | 995 | 995 | 0 | 14.0 |
| 16/05/2021 19:53 | 31.5 | 22.3 | 0.0 | 0 | 0 | 995 | 995 | 0 | 13.7 |
| 16/05/2021 20:53 | 31.5 | 22.3 | 0.0 | 0 | 0 | 995 | 995 | 0 | 13.4 |
| 16/05/2021 21:53 | 31.5 | 22.6 | 0.0 | 0 | 0 | 996 | 996 | 0 | 13.1 |
| 16/05/2021 22:53 | 31.6 | 22.9 | 0.0 | 0 | 0 | 997 | 997 | 0 | 12.8 |
| 16/05/2021 23:53 | 31.1 | 22.8 | 0.0 | 0 | 0 | 998 | 998 | 0 | 12.6 |
| 17/05/2021 00:53 | 31.6 | 22.6 | 0.0 | 0 | 1 | 998 | 998 | 0 | 12.3 |
| 17/05/2021 01:53 | 31.5 | 22.8 | 0.0 | 0 | 0 | 999 | 999 | 0 | 12.1 |
| 17/05/2021 02:53 | 31.9 | 23.0 | 0.0 | 0 | 0 | 999 | 999 | 0 | 11.9 |
| 17/05/2021 03:53 | 31.9 | 22.6 | 0.0 | 0 | 0 | 1000 | 1000 | 0 | 11.7 |
| 17/05/2021 04:53 | 31.8 | 22.6 | 0.0 | 0 | 1 | 1001 | 1001 | 0 | 11.4 |
| 17/05/2021 05:53 | 32.0 | 22.7 | 0.0 | 0 | 0 | 1002 | 1002 | 0 | 11.3 |
| 17/05/2021 06:53 | 31.8 | 22.9 | 0.0 | 0 | 0 | 1003 | 1003 | 0 | 11.3 |
| 17/05/2021 07:53 | 32.2 | 22.9 | 0.0 | 0 | 0 | 1004 | 1003 | -1 | 11.4 |
| 17/05/2021 08:53 | 31.7 | 22.9 | 0.0 | 0 | 1 | 1004 | 1004 | 0 | 11.8 |
| 17/05/2021 09:53 | 32.0 | 23.0 | 0.0 | 0 | 1 | 1005 | 1005 | 0 | 12.3 |
| 17/05/2021 10:53 | 31.8 | 22.8 | 0.0 | 0 | 0 | 1006 | 1006 | 0 | 13.1 |
| 17/05/2021 11:53 | 31.3 | 23.0 | 0.0 | 0 | 0 | 1006 | 1006 | 0 | 13.7 |
| 17/05/2021 12:53 | 31.8 | 23.0 | 0.0 | 0 | 0 | 1006 | 1006 | 0 | 13.9 |
| 17/05/2021 13:53 | 31.8 | 22.9 | 0.0 | 0 | 1 | 1006 | 1006 | 0 | 13.9 |
| 17/05/2021 14:53 | 31.4 | 22.7 | 0.0 | 0 | 1 | 1007 | 1006 | -1 | 14.6 |
| 17/05/2021 15:53 | 31.4 | 22.5 | 0.0 | 0 | 1 | 1008 | 1008 | 0 | 15.7 |
| 17/05/2021 16:53 | 31.5 | 22.8 | 0.0 | 0 | 1 | 1008 | 1008 | 0 | 16.2 |
| 17/05/2021 17:53 | 31.1 | 23.1 | 0.0 | 0 | 0 | 1008 | 1008 | 0 | 15.8 |

| Date and Time | $CH_4$ % v/v | $CO_2$ % v/v | $O_2$ % v/v | $H_2S$ ppm/v | CO ppm/v | Borehole Pressure mbar | Atmospheric Pressure mbar | Differential Pressure mbar | Temperature °C |
|---|---|---|---|---|---|---|---|---|---|
| 17/05/2021 18:53 | 31.1 | 22.8 | 0.0 | 0 | 1 | 1008 | 1008 | 0 | 15.6 |
| 17/05/2021 19:53 | 31.1 | 22.8 | 0.0 | 0 | 1 | 1009 | 1009 | 0 | 15.2 |
| 17/05/2021 20:53 | 31.2 | 23.0 | 0.0 | 0 | 0 | 1009 | 1009 | 0 | 14.6 |
| 17/05/2021 21:53 | 31.1 | 22.9 | 0.0 | 0 | 0 | 1010 | 1010 | 0 | 13.9 |
| 17/05/2021 22:53 | 31.5 | 23.1 | 0.0 | 0 | 0 | 1011 | 1011 | 0 | 13.4 |
| 17/05/2021 23:53 | 31.5 | 22.9 | 0.0 | 0 | 0 | 1011 | 1011 | 0 | 13.1 |
| 18/05/2021 00:53 | 31.7 | 22.8 | 0.0 | 0 | 0 | 1011 | 1011 | 0 | 12.7 |
| 18/05/2021 01:53 | 31.3 | 23.0 | 0.0 | 0 | 0 | 1012 | 1012 | 0 | 12.1 |
| 18/05/2021 02:53 | 31.9 | 22.8 | 0.0 | 0 | 1 | 1012 | 1012 | 0 | 11.6 |
| 18/05/2021 03:53 | 31.1 | 22.9 | 0.0 | 0 | 0 | 1012 | 1012 | 0 | 11.0 |
| 18/05/2021 04:53 | 31.6 | 23.1 | 0.0 | 0 | 0 | 1012 | 1012 | 0 | 10.5 |
| 18/05/2021 05:53 | 31.6 | 23.0 | 0.0 | 0 | 0 | 1013 | 1013 | 0 | 10.1 |
| 18/05/2021 06:53 | 31.1 | 23.2 | 0.0 | 0 | 0 | 1013 | 1013 | 0 | 9.9 |
| 18/05/2021 07:53 | 31.0 | 23.0 | 0.0 | 0 | 0 | 1013 | 1013 | 0 | 10.2 |
| 18/05/2021 08:53 | 31.2 | 23.1 | 0.0 | 0 | 0 | 1014 | 1013 | -1 | 11.1 |
| 18/05/2021 09:53 | 30.9 | 23.0 | 0.0 | 0 | 0 | 1014 | 1013 | -1 | 12.1 |
| 18/05/2021 10:53 | 30.9 | 22.8 | 0.0 | 0 | 1 | 1014 | 1013 | -1 | 12.9 |
| 18/05/2021 11:53 | 31.1 | 23.0 | 0.0 | 0 | 1 | 1014 | 1013 | -1 | 14.1 |
| 18/05/2021 12:53 | 30.4 | 22.8 | 0.0 | 0 | 1 | 1013 | 1013 | 0 | 14.9 |
| 18/05/2021 13:53 | 30.4 | 22.9 | 0.0 | 0 | 1 | 1014 | 1013 | -1 | 16.1 |
| 18/05/2021 14:53 | 30.4 | 22.8 | 0.0 | 0 | 1 | 1014 | 1014 | 0 | 17.3 |
| 18/05/2021 15:53 | 30.7 | 22.7 | 0.0 | 0 | 2 | 1014 | 1013 | -1 | 18.3 |
| 18/05/2021 16:53 | 30.3 | 22.6 | 0.0 | 0 | 2 | 1014 | 1014 | 0 | 18.6 |
| 18/05/2021 17:53 | 30.9 | 22.9 | 0.0 | 0 | 2 | 1014 | 1014 | 0 | 17.9 |
| 18/05/2021 18:53 | 31.0 | 23.0 | 0.0 | 0 | 0 | 1014 | 1014 | 0 | 17.0 |
| 18/05/2021 19:53 | 30.8 | 23.0 | 0.0 | 0 | 0 | 1014 | 1014 | 0 | 16.4 |
| 18/05/2021 20:53 | 31.1 | 22.8 | 0.0 | 0 | 1 | 1014 | 1014 | 0 | 15.7 |
| 18/05/2021 21:53 | 31.0 | 23.1 | 0.0 | 0 | 1 | 1014 | 1015 | 1 | 15.0 |
| 18/05/2021 22:53 | 30.9 | 23.2 | 0.0 | 0 | 0 | 1015 | 1015 | 0 | 14.4 |
| 18/05/2021 23:53 | 30.5 | 22.8 | 0.0 | 0 | 0 | 1014 | 1015 | 1 | 14.0 |
| 19/05/2021 00:53 | 31.2 | 23.0 | 0.0 | 0 | 0 | 1014 | 1014 | 0 | 13.6 |
| 19/05/2021 01:53 | 31.1 | 23.0 | 0.0 | 0 | 0 | 1014 | 1014 | 0 | 13.4 |
| 19/05/2021 02:53 | 31.1 | 23.2 | 0.0 | 0 | 0 | 1014 | 1014 | 0 | 13.1 |
| 19/05/2021 03:53 | 31.1 | 23.2 | 0.0 | 0 | 0 | 1014 | 1014 | 0 | 12.9 |
| 19/05/2021 04:53 | 31.4 | 23.0 | 0.0 | 0 | 0 | 1014 | 1014 | 0 | 12.6 |
| 19/05/2021 05:53 | 31.5 | 23.2 | 0.0 | 0 | 0 | 1014 | 1014 | 0 | 12.3 |
| 19/05/2021 06:53 | 31.8 | 23.1 | 0.0 | 0 | 0 | 1015 | 1015 | 0 | 12.1 |
| 19/05/2021 07:53 | 32.0 | 23.2 | 0.0 | 0 | 0 | 1016 | 1016 | 0 | 12.2 |

# GGS Time Series Data

Experts in Continuous Monitoring

| | | | |
|---|---|---|---|
| **Project Ref:** | GGS2440 | | |
| **Location:** | Broadmarsh open Space, Harts Farm Way | | |
| **Borehole ref:** | RO105 | | |
| **GasClam ID:** | GC44/12/09 | Days of monitoring: | 28 |
| **Start Date:** | 29/04/2021 11:49 | Monitoring Frequency (mins): | 60 |
| **End Date:** | 19/05/2021 07:49 | Total samples taken: | 477 |

**Minimum, Maximum and Range Table**

| | $CH_4$ | $CO_2$ | $O_2$ | $H_2S$ | CO | Borehole Pressure | Atmospheric Pressure | Differential Pressure | Temperature |
|---|---|---|---|---|---|---|---|---|---|
| **Minimum** | 3.6 | 13.9 | 1.8 | 0 | 0 | 992 | 992 | -1 | 2.1 |
| **Maximum** | 25.4 | 19.0 | 6.1 | 0 | 12 | 1018 | 1019 | 1 | 15.1 |
| **Range** | 21.8 | 5.1 | 4.3 | 0 | 12 | 26 | 27 | N/A | 13.0 |

| Date and Time | $CH_4$ % v/v | $CO_2$ % v/v | $O_2$ % v/v | $H_2S$ ppm/v | CO ppm/v | Borehole Pressure mbar | Atmospheric Pressure mbar | Differential Pressure mbar | Temperature °C |
|---|---|---|---|---|---|---|---|---|---|
| 29/04/2021 11:49 | 19.4 | 13.9 | 6.1 | 0 | 0 | 1008 | 1008 | 0 | 11.0 |
| 29/04/2021 12:49 | 21.8 | 15.3 | 4.6 | 0 | 4 | 1008 | 1009 | 1 | 10.3 |
| 29/04/2021 13:49 | 22.6 | 15.3 | 4.4 | 0 | 4 | 1008 | 1009 | 1 | 10.3 |
| 29/04/2021 14:49 | 23.0 | 16.0 | 4.1 | 0 | 5 | 1009 | 1009 | 0 | 10.4 |
| 29/04/2021 15:49 | 23.4 | 16.8 | 3.9 | 0 | 6 | 1008 | 1009 | 1 | 10.7 |
| 29/04/2021 16:49 | 23.8 | 16.0 | 3.7 | 0 | 7 | 1008 | 1009 | 1 | 11.3 |
| 29/04/2021 17:49 | 24.2 | 16.8 | 3.6 | 0 | 7 | 1009 | 1009 | 0 | 11.3 |
| 29/04/2021 18:49 | 24.2 | 16.8 | 3.4 | 0 | 6 | 1009 | 1009 | 0 | 10.8 |
| 29/04/2021 19:49 | 24.6 | 16.8 | 3.2 | 0 | 8 | 1009 | 1009 | 0 | 10.3 |
| 29/04/2021 20:49 | 24.6 | 16.8 | 3.1 | 0 | 8 | 1010 | 1010 | 0 | 9.1 |
| 29/04/2021 21:49 | 24.2 | 17.6 | 3.0 | 0 | 9 | 1010 | 1010 | 0 | 7.8 |
| 29/04/2021 22:49 | 24.6 | 17.6 | 2.9 | 0 | 9 | 1010 | 1010 | 0 | 6.6 |
| 29/04/2021 23:49 | 24.6 | 17.6 | 2.8 | 0 | 9 | 1011 | 1011 | 0 | 5.8 |
| 30/04/2021 00:49 | 24.6 | 17.6 | 2.8 | 0 | 9 | 1011 | 1011 | 0 | 5.1 |
| 30/04/2021 01:49 | 25.0 | 16.8 | 2.7 | 0 | 8 | 1011 | 1011 | 0 | 4.5 |
| 30/04/2021 02:49 | 25.0 | 17.6 | 2.6 | 0 | 10 | 1011 | 1011 | 0 | 4.1 |
| 30/04/2021 03:49 | 25.0 | 16.8 | 2.6 | 0 | 9 | 1011 | 1011 | 0 | 3.8 |
| 30/04/2021 04:49 | 25.0 | 16.8 | 2.6 | 0 | 8 | 1010 | 1011 | 1 | 3.7 |
| 30/04/2021 05:49 | 25.0 | 17.6 | 2.5 | 0 | 8 | 1011 | 1011 | 0 | 3.6 |
| 30/04/2021 06:49 | 25.0 | 17.6 | 2.4 | 0 | 9 | 1011 | 1011 | 0 | 3.7 |
| 30/04/2021 07:49 | 25.0 | 17.6 | 2.3 | 0 | 9 | 1011 | 1011 | 0 | 3.9 |
| 30/04/2021 08:49 | 25.0 | 17.6 | 2.3 | 0 | 9 | 1012 | 1012 | 0 | 4.4 |
| 30/04/2021 09:49 | 25.0 | 17.6 | 2.2 | 0 | 9 | 1012 | 1012 | 0 | 5.3 |
| 30/04/2021 10:49 | 25.0 | 17.6 | 2.2 | 0 | 9 | 1012 | 1012 | 0 | 6.4 |
| 30/04/2021 11:49 | 25.4 | 17.6 | 2.1 | 0 | 9 | 1012 | 1012 | 0 | 7.4 |
| 30/04/2021 12:49 | 24.6 | 17.6 | 2.0 | 0 | 9 | 1012 | 1012 | 0 | 7.7 |
| 30/04/2021 13:49 | 25.0 | 17.6 | 2.1 | 0 | 8 | 1012 | 1012 | 0 | 8.4 |
| 30/04/2021 14:49 | 25.0 | 18.3 | 2.1 | 0 | 9 | 1012 | 1012 | 0 | 9.9 |
| 30/04/2021 15:49 | 24.6 | 17.6 | 2.0 | 0 | 9 | 1011 | 1011 | 0 | 10.0 |
| 30/04/2021 16:49 | 25.0 | 18.3 | 2.0 | 0 | 8 | 1011 | 1011 | 0 | 10.4 |
| 30/04/2021 17:49 | 24.2 | 18.3 | 2.0 | 0 | 8 | 1011 | 1011 | 0 | 11.3 |
| 30/04/2021 18:49 | 23.8 | 18.3 | 1.9 | 0 | 9 | 1011 | 1011 | 0 | 11.2 |
| 30/04/2021 19:49 | 24.2 | 18.3 | 1.9 | 0 | 9 | 1012 | 1012 | 0 | 10.3 |
| 30/04/2021 20:49 | 23.8 | 18.3 | 1.9 | 0 | 10 | 1012 | 1012 | 0 | 9.0 |
| 30/04/2021 21:49 | 24.2 | 18.3 | 1.9 | 0 | 10 | 1012 | 1012 | 0 | 7.7 |
| 30/04/2021 22:49 | 23.8 | 18.3 | 1.9 | 0 | 12 | 1012 | 1012 | 0 | 6.6 |
| 30/04/2021 23:49 | 23.8 | 18.3 | 1.9 | 0 | 9 | 1012 | 1013 | 1 | 5.7 |
| 01/05/2021 00:49 | 23.0 | 18.3 | 1.9 | 0 | 10 | 1012 | 1013 | 1 | 4.9 |
| 01/05/2021 01:49 | 23.8 | 18.3 | 1.9 | 0 | 10 | 1012 | 1012 | 0 | 4.3 |
| 01/05/2021 02:49 | 23.0 | 18.3 | 1.9 | 0 | 10 | 1012 | 1012 | 0 | 3.7 |
| 01/05/2021 03:49 | 23.0 | 18.3 | 1.9 | 0 | 9 | 1012 | 1012 | 0 | 3.2 |
| 01/05/2021 04:49 | 22.6 | 18.3 | 1.9 | 0 | 11 | 1012 | 1012 | 0 | 2.8 |
| 01/05/2021 05:49 | 22.6 | 18.3 | 1.9 | 0 | 10 | 1012 | 1012 | 0 | 2.3 |
| 01/05/2021 06:49 | 22.2 | 18.3 | 1.9 | 0 | 9 | 1012 | 1012 | 0 | 2.1 |
| 01/05/2021 07:49 | 22.6 | 18.3 | 1.8 | 0 | 10 | 1012 | 1013 | 1 | 2.3 |
| 01/05/2021 08:49 | 21.8 | 18.3 | 1.8 | 0 | 10 | 1013 | 1013 | 0 | 3.0 |
| 01/05/2021 09:49 | 21.8 | 18.3 | 1.8 | 0 | 9 | 1013 | 1013 | 0 | 4.1 |
| 01/05/2021 10:49 | 21.4 | 18.3 | 1.8 | 0 | 8 | 1013 | 1013 | 0 | 5.3 |
| 01/05/2021 11:49 | 21.8 | 18.3 | 1.9 | 0 | 8 | 1012 | 1013 | 1 | 7.1 |
| 01/05/2021 12:49 | 21.4 | 18.3 | 1.9 | 0 | 9 | 1012 | 1013 | 1 | 7.6 |
| 01/05/2021 13:49 | 21.0 | 18.3 | 1.9 | 0 | 9 | 1013 | 1013 | 0 | 7.4 |
| 01/05/2021 14:49 | 21.0 | 18.3 | 1.9 | 0 | 10 | 1013 | 1013 | 0 | 7.2 |
| 01/05/2021 15:49 | 21.0 | 17.6 | 1.9 | 0 | 9 | 1012 | 1013 | 1 | 7.4 |
| 01/05/2021 16:49 | 20.6 | 18.3 | 2.0 | 0 | 9 | 1013 | 1013 | 0 | 8.0 |
| 01/05/2021 17:49 | 20.6 | 18.3 | 2.0 | 0 | 9 | 1013 | 1013 | 0 | 7.9 |
| 01/05/2021 18:49 | 20.2 | 18.3 | 2.0 | 0 | 8 | 1013 | 1014 | 1 | 7.8 |
| 01/05/2021 19:49 | 19.8 | 19.0 | 2.0 | 0 | 9 | 1014 | 1014 | 0 | 8.1 |
| 01/05/2021 20:49 | 19.8 | 18.3 | 2.0 | 0 | 9 | 1014 | 1015 | 1 | 7.6 |
| 01/05/2021 21:49 | 19.4 | 18.3 | 2.1 | 0 | 9 | 1015 | 1015 | 0 | 6.8 |
| 01/05/2021 22:49 | 19.4 | 18.3 | 2.1 | 0 | 10 | 1015 | 1015 | 0 | 6.1 |
| 01/05/2021 23:49 | 19.4 | 18.3 | 2.1 | 0 | 9 | 1015 | 1015 | 0 | 5.6 |
| 02/05/2021 00:49 | 19.4 | 19.0 | 2.2 | 0 | 9 | 1015 | 1016 | 1 | 5.0 |
| 02/05/2021 01:49 | 19.0 | 18.3 | 2.2 | 0 | 10 | 1016 | 1016 | 0 | 4.4 |
| 02/05/2021 02:49 | 19.0 | 18.3 | 2.2 | 0 | 9 | 1016 | 1016 | 0 | 3.7 |
| 02/05/2021 03:49 | 18.6 | 18.3 | 2.3 | 0 | 10 | 1016 | 1016 | 0 | 3.1 |
| 02/05/2021 04:49 | 18.6 | 18.3 | 2.3 | 0 | 9 | 1016 | 1016 | 0 | 2.7 |
| 02/05/2021 05:49 | 18.6 | 18.3 | 2.4 | 0 | 9 | 1016 | 1017 | 1 | 2.3 |
| 02/05/2021 06:49 | 18.2 | 18.3 | 2.4 | 0 | 8 | 1017 | 1017 | 0 | 2.3 |
| 02/05/2021 07:49 | 18.2 | 18.3 | 2.5 | 0 | 8 | 1017 | 1018 | 1 | 2.6 |
| 02/05/2021 08:49 | 17.8 | 18.3 | 2.5 | 0 | 7 | 1018 | 1018 | 0 | 3.4 |
| 02/05/2021 09:49 | 17.5 | 18.3 | 2.6 | 0 | 7 | 1018 | 1018 | 0 | 4.5 |

| Date and Time | $CH_4$ % v/v | $CO_2$ % v/v | $O_2$ % v/v | $H_2S$ ppm/v | CO ppm/v | Borehole Pressure mbar | Atmospheric Pressure mbar | Differential Pressure mbar | Temperature °C |
|---|---|---|---|---|---|---|---|---|---|
| 02/05/2021 10:49 | 17.8 | 18.3 | 2.7 | 0 | 7 | 1018 | 1018 | 0 | 5.7 |
| 02/05/2021 11:49 | 17.1 | 18.3 | 2.8 | 0 | 6 | 1018 | 1018 | 0 | 7.3 |
| 02/05/2021 12:49 | 16.7 | 18.3 | 2.8 | 0 | 5 | 1018 | 1018 | 0 | 8.6 |
| 02/05/2021 13:49 | 17.0 | 18.3 | 2.9 | 0 | 6 | 1018 | 1018 | 0 | 8.9 |
| 02/05/2021 14:49 | 16.3 | 18.3 | 2.9 | 0 | 6 | 1018 | 1018 | 0 | 9.2 |
| 02/05/2021 15:49 | 16.3 | 18.3 | 3.0 | 0 | 6 | 1018 | 1018 | 0 | 9.6 |
| 02/05/2021 16:49 | 16.3 | 18.3 | 3.0 | 0 | 5 | 1017 | 1018 | 1 | 10.3 |
| 02/05/2021 17:49 | 15.9 | 18.3 | 3.1 | 0 | 6 | 1017 | 1018 | 1 | 10.3 |
| 02/05/2021 18:49 | 15.9 | 18.3 | 3.1 | 0 | 7 | 1017 | 1018 | 1 | 9.8 |
| 02/05/2021 19:49 | 15.9 | 18.3 | 3.1 | 0 | 7 | 1017 | 1018 | 1 | 9.3 |
| 02/05/2021 20:49 | 15.5 | 18.3 | 3.2 | 0 | 6 | 1018 | 1018 | 0 | 8.6 |
| 02/05/2021 21:49 | 15.5 | 18.3 | 3.2 | 0 | 7 | 1018 | 1019 | 1 | 7.8 |
| 02/05/2021 22:49 | 15.5 | 18.3 | 3.2 | 0 | 7 | 1018 | 1019 | 1 | 7.3 |
| 02/05/2021 23:49 | 15.1 | 18.3 | 3.3 | 0 | 7 | 1018 | 1019 | 1 | 6.9 |
| 03/05/2021 00:49 | 15.1 | 17.6 | 3.3 | 0 | 8 | 1018 | 1018 | 0 | 6.2 |
| 03/05/2021 01:49 | 14.7 | 18.3 | 3.3 | 0 | 7 | 1018 | 1018 | 0 | 5.4 |
| 03/05/2021 02:49 | 14.7 | 17.6 | 3.3 | 0 | 8 | 1018 | 1018 | 0 | 4.8 |
| 03/05/2021 03:49 | 14.7 | 17.6 | 3.3 | 0 | 8 | 1017 | 1018 | 1 | 4.3 |
| 03/05/2021 04:49 | 14.7 | 17.6 | 3.3 | 0 | 8 | 1017 | 1017 | 0 | 4.0 |
| 03/05/2021 05:49 | 14.3 | 18.3 | 3.2 | 0 | 8 | 1017 | 1017 | 0 | 3.8 |
| 03/05/2021 06:49 | 14.3 | 17.6 | 3.1 | 0 | 8 | 1017 | 1017 | 0 | 3.7 |
| 03/05/2021 07:49 | 14.7 | 17.6 | 3.0 | 0 | 9 | 1016 | 1017 | 1 | 3.9 |
| 03/05/2021 08:49 | 14.3 | 17.6 | 3.0 | 0 | 8 | 1016 | 1016 | 0 | 4.7 |
| 03/05/2021 09:49 | 14.3 | 18.3 | 3.0 | 0 | 7 | 1015 | 1016 | 1 | 5.8 |
| 03/05/2021 10:49 | 13.9 | 17.6 | 3.0 | 0 | 6 | 1014 | 1015 | 1 | 6.8 |
| 03/05/2021 11:49 | 13.9 | 17.6 | 3.1 | 0 | 5 | 1013 | 1014 | 1 | 8.0 |
| 03/05/2021 12:49 | 13.9 | 17.6 | 3.1 | 0 | 4 | 1012 | 1013 | 1 | 9.4 |
| 03/05/2021 13:49 | 13.5 | 17.6 | 3.2 | 0 | 6 | 1011 | 1012 | 1 | 9.9 |
| 03/05/2021 14:49 | 13.5 | 17.6 | 3.3 | 0 | 5 | 1010 | 1010 | 0 | 10.1 |
| 03/05/2021 15:49 | 13.5 | 17.6 | 3.3 | 0 | 6 | 1008 | 1008 | 0 | 9.9 |
| 03/05/2021 16:49 | 13.5 | 17.6 | 3.3 | 0 | 6 | 1006 | 1007 | 1 | 9.6 |
| 03/05/2021 17:49 | 13.1 | 16.8 | 3.4 | 0 | 6 | 1005 | 1005 | 0 | 9.2 |
| 03/05/2021 18:49 | 13.1 | 17.6 | 3.5 | 0 | 7 | 1003 | 1003 | 0 | 8.8 |
| 03/05/2021 19:49 | 12.7 | 17.6 | 3.5 | 0 | 6 | 1001 | 1001 | 0 | 8.2 |
| 03/05/2021 20:49 | 12.7 | 17.6 | 3.6 | 0 | 6 | 999 | 999 | 0 | 7.8 |
| 03/05/2021 21:49 | 12.7 | 16.8 | 3.7 | 0 | 6 | 997 | 997 | 0 | 7.5 |
| 03/05/2021 22:49 | 12.3 | 16.8 | 3.8 | 0 | 6 | 996 | 996 | 0 | 7.4 |
| 03/05/2021 23:49 | 12.3 | 16.8 | 3.9 | 0 | 5 | 995 | 995 | 0 | 7.4 |
| 04/05/2021 00:49 | 11.9 | 16.8 | 4.0 | 0 | 4 | 995 | 994 | -1 | 7.4 |
| 04/05/2021 01:49 | 12.3 | 16.8 | 4.2 | 0 | 4 | 994 | 994 | 0 | 7.3 |
| 04/05/2021 02:49 | 11.5 | 16.8 | 4.3 | 0 | 4 | 994 | 994 | 0 | 7.1 |
| 04/05/2021 03:49 | 11.5 | 16.8 | 4.4 | 0 | 4 | 994 | 994 | 0 | 6.9 |
| 04/05/2021 04:49 | 11.5 | 16.0 | 4.5 | 0 | 3 | 994 | 994 | 0 | 6.8 |
| 04/05/2021 05:49 | 11.5 | 16.8 | 4.7 | 0 | 4 | 995 | 994 | -1 | 6.6 |
| 04/05/2021 06:49 | 11.5 | 16.0 | 4.8 | 0 | 4 | 996 | 996 | 0 | 6.4 |
| 04/05/2021 07:49 | 11.1 | 16.0 | 5.0 | 0 | 3 | 997 | 997 | 0 | 6.3 |
| 04/05/2021 08:49 | 11.1 | 16.0 | 5.1 | 0 | 3 | 997 | 998 | 1 | 6.6 |
| 04/05/2021 09:49 | 10.7 | 16.0 | 5.3 | 0 | 3 | 999 | 999 | 0 | 7.1 |
| 04/05/2021 10:49 | 11.1 | 16.0 | 5.4 | 0 | 2 | 999 | 999 | 0 | 7.7 |
| 04/05/2021 11:49 | 11.1 | 15.3 | 5.5 | 0 | 1 | 1000 | 1000 | 0 | 8.5 |
| 04/05/2021 12:49 | 10.7 | 15.3 | 5.6 | 0 | 1 | 1000 | 1000 | 0 | 9.6 |
| 04/05/2021 13:49 | 10.3 | 16.0 | 5.7 | 0 | 1 | 1000 | 1000 | 0 | 10.6 |
| 04/05/2021 14:49 | 10.7 | 16.0 | 5.8 | 0 | 2 | 1001 | 1001 | 0 | 11.1 |
| 04/05/2021 15:49 | 10.3 | 16.0 | 5.8 | 0 | 0 | 1001 | 1001 | 0 | 11.5 |
| 04/05/2021 16:49 | 10.3 | 15.3 | 5.9 | 0 | 0 | 1001 | 1001 | 0 | 12.1 |
| 04/05/2021 17:49 | 10.7 | 15.3 | 5.9 | 0 | 2 | 1001 | 1001 | 0 | 12.3 |
| 04/05/2021 18:49 | 10.3 | 15.3 | 5.9 | 0 | 3 | 1002 | 1002 | 0 | 12.1 |
| 04/05/2021 19:49 | 10.7 | 15.3 | 5.8 | 0 | 4 | 1002 | 1002 | 0 | 11.5 |
| 04/05/2021 20:49 | 10.3 | 15.3 | 5.8 | 0 | 4 | 1002 | 1002 | 0 | 10.2 |
| 04/05/2021 21:49 | 10.3 | 15.3 | 5.7 | 0 | 4 | 1003 | 1003 | 0 | 8.9 |
| 04/05/2021 22:49 | 10.3 | 16.0 | 5.7 | 0 | 6 | 1003 | 1003 | 0 | 7.9 |
| 04/05/2021 23:49 | 10.3 | 16.0 | 5.6 | 0 | 5 | 1003 | 1004 | 1 | 7.1 |
| 05/05/2021 00:49 | 10.3 | 16.0 | 5.6 | 0 | 6 | 1004 | 1004 | 0 | 6.5 |
| 05/05/2021 01:49 | 10.3 | 16.0 | 5.5 | 0 | 6 | 1004 | 1004 | 0 | 5.9 |
| 05/05/2021 02:49 | 10.3 | 16.0 | 5.5 | 0 | 6 | 1004 | 1004 | 0 | 5.4 |
| 05/05/2021 03:49 | 10.3 | 16.0 | 5.4 | 0 | 7 | 1004 | 1004 | 0 | 4.9 |
| 05/05/2021 04:49 | 10.3 | 16.0 | 5.4 | 0 | 5 | 1004 | 1004 | 0 | 4.6 |
| 05/05/2021 05:49 | 10.3 | 15.3 | 5.3 | 0 | 6 | 1005 | 1005 | 0 | 4.2 |
| 05/05/2021 06:49 | 10.7 | 16.0 | 5.3 | 0 | 6 | 1005 | 1005 | 0 | 3.8 |
| 05/05/2021 07:49 | 10.3 | 16.0 | 5.3 | 0 | 6 | 1006 | 1006 | 0 | 3.8 |
| 05/05/2021 08:49 | 10.3 | 16.0 | 5.2 | 0 | 5 | 1006 | 1006 | 0 | 4.5 |
| 05/05/2021 09:49 | 10.3 | 16.0 | 5.2 | 0 | 4 | 1007 | 1007 | 0 | 5.3 |
| 05/05/2021 10:49 | 10.3 | 16.0 | 5.2 | 0 | 3 | 1007 | 1007 | 0 | 6.3 |
| 05/05/2021 11:49 | 10.3 | 16.0 | 5.2 | 0 | 3 | 1007 | 1007 | 0 | 7.5 |
| 05/05/2021 12:49 | 10.3 | 16.0 | 5.1 | 0 | 3 | 1007 | 1007 | 0 | 8.7 |
| 05/05/2021 13:49 | 10.3 | 16.1 | 5.1 | 0 | 3 | 1008 | 1008 | 0 | 9.2 |
| 05/05/2021 14:49 | 10.3 | 16.0 | 5.1 | 0 | 2 | 1008 | 1008 | 0 | 9.4 |
| 05/05/2021 15:49 | 10.3 | 16.0 | 5.1 | 0 | 4 | 1007 | 1007 | 0 | 9.1 |
| 05/05/2021 16:49 | 10.3 | 16.0 | 5.1 | 0 | 3 | 1007 | 1007 | 0 | 9.3 |
| 05/05/2021 17:49 | 9.9 | 16.0 | 5.1 | 0 | 4 | 1007 | 1007 | 0 | 9.4 |
| 05/05/2021 18:49 | 10.3 | 16.0 | 5.0 | 0 | 3 | 1007 | 1007 | 0 | 8.9 |
| 05/05/2021 19:49 | 10.3 | 16.0 | 5.0 | 0 | 6 | 1007 | 1007 | 0 | 8.3 |
| 05/05/2021 20:49 | 10.3 | 16.0 | 4.9 | 0 | 6 | 1007 | 1007 | 0 | 7.6 |
| 05/05/2021 21:49 | 10.3 | 16.0 | 4.9 | 0 | 6 | 1007 | 1007 | 0 | 6.6 |
| 05/05/2021 22:49 | 9.9 | 16.0 | 4.9 | 0 | 7 | 1007 | 1007 | 0 | 5.8 |
| 05/05/2021 23:49 | 9.9 | 16.8 | 4.8 | 0 | 7 | 1007 | 1007 | 0 | 5.1 |
| 06/05/2021 00:49 | 9.9 | 16.0 | 4.6 | 0 | 6 | 1007 | 1007 | 0 | 4.6 |
| 06/05/2021 01:49 | 9.9 | 16.8 | 4.5 | 0 | 6 | 1006 | 1006 | 0 | 4.1 |
| 06/05/2021 02:49 | 9.9 | 16.0 | 4.3 | 0 | 7 | 1005 | 1005 | 0 | 3.6 |

| Date and Time | $CH_4$ % v/v | $CO_2$ % v/v | $O_2$ % v/v | $H_2S$ ppm/v | CO ppm/v | Borehole Pressure mbar | Atmospheric Pressure mbar | Differential Pressure mbar | Temperature °C |
|---|---|---|---|---|---|---|---|---|---|
| 06/05/2021 03:49 | 9.9 | 16.0 | 4.2 | 0 | 7 | 1004 | 1005 | 1 | 3.3 |
| 06/05/2021 04:49 | 10.3 | 16.0 | 4.0 | 0 | 7 | 1004 | 1004 | 0 | 2.8 |
| 06/05/2021 05:49 | 9.9 | 16.8 | 3.8 | 0 | 7 | 1003 | 1003 | 0 | 2.4 |
| 06/05/2021 06:49 | 9.9 | 16.0 | 3.7 | 0 | 8 | 1003 | 1003 | 0 | 2.3 |
| 06/05/2021 07:49 | 9.9 | 16.0 | 3.6 | 0 | 8 | 1003 | 1003 | 0 | 2.6 |
| 06/05/2021 08:49 | 9.9 | 16.8 | 3.4 | 0 | 8 | 1002 | 1003 | 1 | 3.3 |
| 06/05/2021 09:49 | 10.3 | 16.8 | 3.3 | 0 | 7 | 1002 | 1002 | 0 | 4.3 |
| 06/05/2021 10:49 | 10.3 | 16.8 | 3.2 | 0 | 7 | 1002 | 1002 | 0 | 5.4 |
| 06/05/2021 11:49 | 9.9 | 16.8 | 3.1 | 0 | 7 | 1002 | 1002 | 0 | 6.4 |
| 06/05/2021 12:49 | 10.3 | 16.8 | 3.1 | 0 | 6 | 1002 | 1002 | 0 | 7.9 |
| 06/05/2021 13:49 | 10.3 | 16.8 | 3.1 | 0 | 6 | 1002 | 1002 | 0 | 9.0 |
| 06/05/2021 14:49 | 10.3 | 16.8 | 3.1 | 0 | 4 | 1002 | 1002 | 0 | 10.0 |
| 06/05/2021 15:49 | 10.3 | 17.6 | 3.1 | 0 | 6 | 1003 | 1003 | 0 | 10.7 |
| 06/05/2021 16:49 | 9.9 | 16.8 | 3.2 | 0 | 4 | 1003 | 1003 | 0 | 11.3 |
| 06/05/2021 17:49 | 9.9 | 17.1 | 3.2 | 0 | 7 | 1003 | 1003 | 0 | 11.8 |
| 06/05/2021 18:49 | 9.9 | 17.6 | 3.2 | 0 | 4 | 1004 | 1004 | 0 | 12.4 |
| 06/05/2021 19:49 | 10.3 | 17.6 | 3.2 | 0 | 6 | 1005 | 1005 | 0 | 12.3 |
| 06/05/2021 20:49 | 9.9 | 17.6 | 3.2 | 0 | 7 | 1006 | 1006 | 0 | 10.9 |
| 06/05/2021 21:49 | 10.3 | 17.6 | 3.2 | 0 | 7 | 1006 | 1006 | 0 | 9.1 |
| 06/05/2021 22:49 | 10.3 | 17.6 | 3.2 | 0 | 6 | 1007 | 1007 | 0 | 7.5 |
| 06/05/2021 23:49 | 9.9 | 16.8 | 3.2 | 0 | 7 | 1008 | 1008 | 0 | 6.3 |
| 07/05/2021 00:49 | 9.9 | 16.8 | 3.3 | 0 | 7 | 1008 | 1009 | 1 | 5.4 |
| 07/05/2021 01:49 | 9.9 | 17.6 | 3.3 | 0 | 7 | 1009 | 1009 | 0 | 4.7 |
| 07/05/2021 02:49 | 9.9 | 17.6 | 3.3 | 0 | 7 | 1010 | 1010 | 0 | 4.2 |
| 07/05/2021 03:49 | 9.9 | 17.6 | 3.3 | 0 | 7 | 1010 | 1010 | 0 | 3.6 |
| 07/05/2021 04:49 | 9.9 | 17.6 | 3.4 | 0 | 7 | 1011 | 1011 | 0 | 3.2 |
| 07/05/2021 05:49 | 9.5 | 17.6 | 3.4 | 0 | 7 | 1012 | 1012 | 0 | 2.7 |
| 07/05/2021 06:49 | 9.9 | 16.8 | 3.4 | 0 | 7 | 1012 | 1013 | 1 | 2.4 |
| 07/05/2021 07:49 | 9.5 | 16.8 | 3.5 | 0 | 7 | 1012 | 1013 | 1 | 2.5 |
| 07/05/2021 08:49 | 9.5 | 17.6 | 3.6 | 0 | 4 | 1013 | 1014 | 1 | 3.4 |
| 07/05/2021 09:49 | 9.5 | 16.8 | 3.6 | 0 | 4 | 1014 | 1014 | 0 | 4.4 |
| 07/05/2021 10:49 | 9.1 | 16.8 | 3.7 | 0 | 3 | 1014 | 1014 | 0 | 5.5 |
| 07/05/2021 11:49 | 9.5 | 16.8 | 3.7 | 0 | 2 | 1014 | 1014 | 0 | 7.2 |
| 07/05/2021 12:49 | 9.5 | 17.6 | 3.8 | 0 | 2 | 1014 | 1015 | 1 | 8.8 |
| 07/05/2021 13:49 | 9.1 | 17.6 | 3.8 | 0 | 2 | 1014 | 1015 | 1 | 9.8 |
| 07/05/2021 14:49 | 9.1 | 17.6 | 3.9 | 0 | 2 | 1014 | 1015 | 1 | 10.4 |
| 07/05/2021 15:49 | 8.7 | 16.8 | 3.9 | 0 | 2 | 1014 | 1014 | 0 | 11.4 |
| 07/05/2021 16:49 | 9.1 | 16.8 | 3.9 | 0 | 1 | 1014 | 1014 | 0 | 12.1 |
| 07/05/2021 17:49 | 9.1 | 17.6 | 3.9 | 0 | 2 | 1014 | 1014 | 0 | 11.7 |
| 07/05/2021 18:49 | 9.1 | 16.8 | 3.9 | 0 | 4 | 1013 | 1014 | 1 | 11.1 |
| 07/05/2021 19:49 | 8.7 | 16.8 | 3.9 | 0 | 4 | 1013 | 1013 | 0 | 10.4 |
| 07/05/2021 20:49 | 8.8 | 16.8 | 3.9 | 0 | 6 | 1013 | 1013 | 0 | 9.6 |
| 07/05/2021 21:49 | 9.1 | 16.8 | 3.8 | 0 | 5 | 1012 | 1013 | 1 | 8.8 |
| 07/05/2021 22:49 | 8.7 | 17.6 | 3.7 | 0 | 6 | 1012 | 1012 | 0 | 8.3 |
| 07/05/2021 23:49 | 8.3 | 16.8 | 3.6 | 0 | 5 | 1011 | 1011 | 0 | 7.9 |
| 08/05/2021 00:49 | 8.7 | 16.8 | 3.4 | 0 | 6 | 1010 | 1010 | 0 | 7.6 |
| 08/05/2021 01:49 | 8.7 | 16.8 | 3.3 | 0 | 7 | 1009 | 1009 | 0 | 7.4 |
| 08/05/2021 02:49 | 8.7 | 16.8 | 3.2 | 0 | 6 | 1008 | 1008 | 0 | 7.3 |
| 08/05/2021 03:49 | 8.7 | 16.8 | 3.0 | 0 | 7 | 1007 | 1007 | 0 | 7.2 |
| 08/05/2021 04:49 | 8.3 | 17.6 | 2.9 | 0 | 7 | 1005 | 1005 | 0 | 7.1 |
| 08/05/2021 05:49 | 8.8 | 17.6 | 2.8 | 0 | 8 | 1004 | 1004 | 0 | 7.2 |
| 08/05/2021 06:49 | 8.7 | 17.6 | 2.7 | 0 | 7 | 1003 | 1003 | 0 | 7.3 |
| 08/05/2021 07:49 | 8.3 | 17.6 | 2.6 | 0 | 7 | 1002 | 1002 | 0 | 7.4 |
| 08/05/2021 08:49 | 8.3 | 16.8 | 2.5 | 0 | 8 | 1001 | 1001 | 0 | 7.7 |
| 08/05/2021 09:49 | 8.3 | 17.6 | 2.6 | 0 | 6 | 1001 | 1001 | 0 | 7.9 |
| 08/05/2021 10:49 | 8.3 | 16.8 | 2.6 | 0 | 6 | 1001 | 1001 | 0 | 8.4 |
| 08/05/2021 11:49 | 8.3 | 16.8 | 2.7 | 0 | 4 | 1001 | 1001 | 0 | 8.8 |
| 08/05/2021 12:49 | 7.9 | 16.8 | 2.8 | 0 | 4 | 1001 | 1001 | 0 | 9.3 |
| 08/05/2021 13:49 | 7.9 | 16.8 | 2.9 | 0 | 4 | 1001 | 1001 | 0 | 10.0 |
| 08/05/2021 14:49 | 8.3 | 16.8 | 3.0 | 0 | 2 | 1001 | 1001 | 0 | 10.4 |
| 08/05/2021 15:49 | 8.3 | 17.6 | 3.1 | 0 | 3 | 1001 | 1001 | 0 | 10.8 |
| 08/05/2021 16:49 | 7.9 | 16.8 | 3.2 | 0 | 3 | 1000 | 1000 | 0 | 11.0 |
| 08/05/2021 17:49 | 7.9 | 16.8 | 3.3 | 0 | 2 | 1000 | 1000 | 0 | 11.3 |
| 08/05/2021 18:49 | 7.9 | 16.8 | 3.4 | 0 | 3 | 1000 | 1000 | 0 | 11.4 |
| 08/05/2021 19:49 | 7.9 | 16.8 | 3.5 | 0 | 2 | 1000 | 999 | -1 | 11.4 |
| 08/05/2021 20:49 | 7.5 | 16.8 | 3.5 | 0 | 3 | 999 | 999 | 0 | 11.3 |
| 08/05/2021 21:49 | 7.5 | 16.8 | 3.6 | 0 | 3 | 999 | 999 | 0 | 11.0 |
| 08/05/2021 22:49 | 7.5 | 16.8 | 3.6 | 0 | 3 | 999 | 999 | 0 | 10.6 |
| 08/05/2021 23:49 | 7.5 | 16.8 | 3.6 | 0 | 3 | 998 | 998 | 0 | 10.1 |
| 09/05/2021 00:49 | 7.5 | 16.0 | 3.6 | 0 | 3 | 997 | 997 | 0 | 9.7 |
| 09/05/2021 01:49 | 7.5 | 16.0 | 3.6 | 0 | 3 | 996 | 996 | 0 | 9.5 |
| 09/05/2021 02:49 | 7.5 | 16.8 | 3.5 | 0 | 4 | 996 | 996 | 0 | 9.3 |
| 09/05/2021 03:49 | 7.5 | 16.0 | 3.4 | 0 | 4 | 996 | 995 | -1 | 9.1 |
| 09/05/2021 04:49 | 7.5 | 16.8 | 3.4 | 0 | 4 | 995 | 994 | -1 | 8.9 |
| 09/05/2021 05:49 | 7.1 | 16.0 | 3.4 | 0 | 5 | 995 | 994 | -1 | 8.8 |
| 09/05/2021 06:49 | 7.1 | 16.0 | 3.4 | 0 | 4 | 995 | 994 | -1 | 8.8 |
| 09/05/2021 07:49 | 7.1 | 16.0 | 3.4 | 0 | 3 | 994 | 994 | 0 | 8.9 |
| 09/05/2021 08:49 | 6.8 | 16.0 | 3.4 | 0 | 4 | 994 | 994 | 0 | 9.2 |
| 09/05/2021 09:49 | 7.1 | 16.8 | 3.4 | 0 | 2 | 994 | 994 | 0 | 9.9 |
| 09/05/2021 10:49 | 7.2 | 16.8 | 3.5 | 0 | 2 | 994 | 994 | 0 | 10.7 |
| 09/05/2021 11:49 | 6.8 | 16.0 | 3.5 | 0 | 2 | 994 | 994 | 0 | 11.4 |
| 09/05/2021 12:49 | 7.2 | 16.0 | 3.5 | 0 | 1 | 994 | 994 | 0 | 12.1 |
| 09/05/2021 13:49 | 7.1 | 16.8 | 3.5 | 0 | 1 | 994 | 994 | 0 | 12.7 |
| 09/05/2021 14:49 | 7.1 | 16.8 | 3.5 | 0 | 1 | 994 | 994 | 0 | 13.4 |
| 09/05/2021 15:49 | 6.8 | 16.8 | 3.6 | 0 | 1 | 993 | 993 | 0 | 14.3 |
| 09/05/2021 16:49 | 6.8 | 16.8 | 3.5 | 0 | 2 | 993 | 993 | 0 | 14.1 |
| 09/05/2021 17:49 | 6.8 | 16.0 | 3.5 | 0 | 3 | 992 | 992 | 0 | 14.1 |
| 09/05/2021 18:49 | 6.8 | 16.8 | 3.5 | 0 | 3 | 992 | 992 | 0 | 14.0 |
| 09/05/2021 19:49 | 6.8 | 16.8 | 3.4 | 0 | 3 | 992 | 992 | 0 | 13.3 |

| Date and Time | $CH_4$ % v/v | $CO_2$ % v/v | $O_2$ % v/v | $H_2S$ ppm/v | CO ppm/v | Borehole Pressure mbar | Atmospheric Pressure mbar | Differential Pressure mbar | Temperature °C |
|---|---|---|---|---|---|---|---|---|---|
| 09/05/2021 20:49 | 6.4 | 16.0 | 3.4 | 0 | 4 | 992 | 992 | 0 | 12.5 |
| 09/05/2021 21:49 | 6.8 | 16.8 | 3.4 | 0 | 3 | 993 | 993 | 0 | 11.8 |
| 09/05/2021 22:49 | 6.8 | 16.8 | 3.4 | 0 | 4 | 993 | 993 | 0 | 11.3 |
| 09/05/2021 23:49 | 6.8 | 16.8 | 3.4 | 0 | 3 | 993 | 993 | 0 | 10.8 |
| 10/05/2021 00:49 | 6.8 | 16.8 | 3.4 | 0 | 4 | 993 | 993 | 0 | 10.3 |
| 10/05/2021 01:49 | 6.4 | 16.8 | 3.4 | 0 | 3 | 993 | 993 | 0 | 9.9 |
| 10/05/2021 02:49 | 6.8 | 16.0 | 3.4 | 0 | 4 | 993 | 993 | 0 | 9.6 |
| 10/05/2021 03:49 | 6.8 | 16.8 | 3.4 | 0 | 4 | 993 | 993 | 0 | 9.3 |
| 10/05/2021 04:49 | 6.4 | 16.0 | 3.4 | 0 | 4 | 993 | 993 | 0 | 9.1 |
| 10/05/2021 05:49 | 6.8 | 16.8 | 3.4 | 0 | 3 | 994 | 994 | 0 | 9.1 |
| 10/05/2021 06:49 | 6.3 | 16.0 | 3.4 | 0 | 2 | 994 | 994 | 0 | 8.9 |
| 10/05/2021 07:49 | 6.4 | 16.0 | 3.5 | 0 | 2 | 995 | 994 | -1 | 9.0 |
| 10/05/2021 08:49 | 6.3 | 16.8 | 3.5 | 0 | 2 | 995 | 995 | 0 | 9.3 |
| 10/05/2021 09:49 | 6.4 | 16.0 | 3.6 | 0 | 2 | 996 | 996 | 0 | 9.6 |
| 10/05/2021 10:49 | 6.4 | 16.8 | 3.7 | 0 | 2 | 997 | 997 | 0 | 10.0 |
| 10/05/2021 11:49 | 6.4 | 16.0 | 3.8 | 0 | 0 | 997 | 998 | 1 | 10.7 |
| 10/05/2021 12:49 | 6.4 | 16.0 | 3.8 | 0 | 1 | 999 | 999 | 0 | 11.1 |
| 10/05/2021 13:49 | 6.0 | 16.0 | 3.9 | 0 | 1 | 999 | 999 | 0 | 11.7 |
| 10/05/2021 14:49 | 6.0 | 16.0 | 4.0 | 0 | 0 | 1000 | 999 | -1 | 12.4 |
| 10/05/2021 15:49 | 6.0 | 16.0 | 4.1 | 0 | 0 | 1000 | 1000 | 0 | 13.4 |
| 10/05/2021 16:49 | 6.0 | 16.0 | 4.2 | 0 | 0 | 1000 | 1000 | 0 | 14.1 |
| 10/05/2021 17:49 | 5.6 | 16.0 | 4.2 | 0 | 0 | 1000 | 1000 | 0 | 14.3 |
| 10/05/2021 18:49 | 5.6 | 16.0 | 4.3 | 0 | 0 | 1001 | 1001 | 0 | 14.2 |
| 10/05/2021 19:49 | 6.0 | 16.0 | 4.3 | 0 | 0 | 1001 | 1001 | 0 | 13.7 |
| 10/05/2021 20:49 | 5.6 | 16.0 | 4.3 | 0 | 3 | 1001 | 1002 | 1 | 12.7 |
| 10/05/2021 21:49 | 6.0 | 16.0 | 4.4 | 0 | 3 | 1002 | 1002 | 0 | 11.5 |
| 10/05/2021 22:49 | 5.6 | 16.0 | 4.4 | 0 | 2 | 1003 | 1003 | 0 | 10.6 |
| 10/05/2021 23:49 | 6.0 | 16.0 | 4.4 | 0 | 2 | 1003 | 1003 | 0 | 9.9 |
| 11/05/2021 00:49 | 5.6 | 16.0 | 4.4 | 0 | 3 | 1003 | 1003 | 0 | 9.3 |
| 11/05/2021 01:49 | 5.6 | 16.0 | 4.4 | 0 | 1 | 1003 | 1003 | 0 | 9.1 |
| 11/05/2021 02:49 | 5.6 | 16.0 | 4.4 | 0 | 1 | 1002 | 1003 | 1 | 8.9 |
| 11/05/2021 03:49 | 5.2 | 16.0 | 4.3 | 0 | 2 | 1002 | 1002 | 0 | 8.6 |
| 11/05/2021 04:49 | 5.6 | 16.0 | 4.2 | 0 | 2 | 1002 | 1002 | 0 | 8.0 |
| 11/05/2021 05:49 | 5.6 | 16.0 | 4.1 | 0 | 3 | 1003 | 1003 | 0 | 7.5 |
| 11/05/2021 06:49 | 5.6 | 16.0 | 4.1 | 0 | 3 | 1003 | 1003 | 0 | 7.4 |
| 11/05/2021 07:49 | 5.6 | 15.3 | 4.1 | 0 | 1 | 1003 | 1003 | 0 | 7.9 |
| 11/05/2021 08:49 | 5.6 | 16.0 | 4.0 | 0 | 0 | 1004 | 1004 | 0 | 8.8 |
| 11/05/2021 09:49 | 5.2 | 15.3 | 4.0 | 0 | 0 | 1004 | 1004 | 0 | 9.5 |
| 11/05/2021 10:49 | 5.2 | 16.0 | 4.0 | 0 | 0 | 1004 | 1004 | 0 | 10.1 |
| 11/05/2021 11:49 | 5.2 | 16.0 | 4.0 | 0 | 0 | 1004 | 1004 | 0 | 10.9 |
| 11/05/2021 12:49 | 5.6 | 15.3 | 4.1 | 0 | 0 | 1004 | 1004 | 0 | 11.5 |
| 11/05/2021 13:49 | 5.2 | 16.0 | 4.1 | 0 | 0 | 1004 | 1004 | 0 | 12.1 |
| 11/05/2021 14:49 | 5.2 | 16.0 | 4.1 | 0 | 0 | 1004 | 1004 | 0 | 13.0 |
| 11/05/2021 15:49 | 4.8 | 16.0 | 4.1 | 0 | 0 | 1004 | 1004 | 0 | 14.0 |
| 11/05/2021 16:49 | 5.2 | 16.0 | 4.1 | 0 | 0 | 1004 | 1004 | 0 | 14.4 |
| 11/05/2021 17:49 | 5.2 | 16.0 | 3.9 | 0 | 1 | 1003 | 1003 | 0 | 13.5 |
| 11/05/2021 18:49 | 5.2 | 16.0 | 3.8 | 0 | 2 | 1004 | 1004 | 0 | 12.6 |
| 11/05/2021 19:49 | 5.2 | 16.0 | 3.8 | 0 | 2 | 1004 | 1004 | 0 | 12.1 |
| 11/05/2021 20:49 | 5.2 | 16.0 | 3.8 | 0 | 2 | 1004 | 1005 | 1 | 11.4 |
| 11/05/2021 21:49 | 5.2 | 16.0 | 3.9 | 0 | 2 | 1005 | 1005 | 0 | 10.8 |
| 11/05/2021 22:49 | 5.2 | 16.0 | 3.9 | 0 | 2 | 1005 | 1005 | 0 | 10.3 |
| 11/05/2021 23:49 | 5.2 | 16.0 | 3.9 | 0 | 1 | 1005 | 1005 | 0 | 10.0 |
| 12/05/2021 00:49 | 5.2 | 16.0 | 4.0 | 0 | 2 | 1005 | 1005 | 0 | 9.6 |
| 12/05/2021 01:49 | 5.2 | 16.0 | 4.0 | 0 | 1 | 1005 | 1005 | 0 | 9.4 |
| 12/05/2021 02:49 | 5.2 | 16.0 | 4.0 | 0 | 0 | 1005 | 1005 | 0 | 9.0 |
| 12/05/2021 03:49 | 5.2 | 16.0 | 4.1 | 0 | 1 | 1005 | 1005 | 0 | 8.7 |
| 12/05/2021 04:49 | 5.2 | 16.0 | 4.1 | 0 | 2 | 1005 | 1005 | 0 | 8.3 |
| 12/05/2021 05:49 | 5.2 | 16.0 | 4.1 | 0 | 1 | 1005 | 1005 | 0 | 8.0 |
| 12/05/2021 06:49 | 5.2 | 16.0 | 4.1 | 0 | 2 | 1006 | 1006 | 0 | 7.8 |
| 12/05/2021 07:49 | 5.2 | 16.0 | 4.1 | 0 | 0 | 1006 | 1006 | 0 | 7.9 |
| 12/05/2021 08:49 | 5.2 | 16.0 | 4.2 | 0 | 0 | 1006 | 1006 | 0 | 8.4 |
| 12/05/2021 09:49 | 4.8 | 16.0 | 4.2 | 0 | 0 | 1006 | 1006 | 0 | 9.1 |
| 12/05/2021 10:49 | 4.8 | 15.3 | 4.2 | 0 | 0 | 1006 | 1006 | 0 | 9.5 |
| 12/05/2021 11:49 | 4.8 | 16.0 | 4.3 | 0 | 0 | 1006 | 1006 | 0 | 10.6 |
| 12/05/2021 12:49 | 4.8 | 15.3 | 4.3 | 0 | 0 | 1006 | 1006 | 0 | 12.1 |
| 12/05/2021 13:49 | 4.8 | 16.0 | 4.3 | 0 | 0 | 1005 | 1005 | 0 | 13.4 |
| 12/05/2021 14:49 | 4.8 | 16.0 | 4.3 | 0 | 0 | 1005 | 1005 | 0 | 14.3 |
| 12/05/2021 15:49 | 4.8 | 16.0 | 4.2 | 0 | 0 | 1005 | 1005 | 0 | 14.9 |
| 12/05/2021 16:49 | 4.8 | 16.0 | 4.0 | 0 | 0 | 1004 | 1005 | 1 | 15.1 |
| 12/05/2021 17:49 | 4.8 | 16.0 | 3.8 | 0 | 2 | 1004 | 1004 | 0 | 14.4 |
| 12/05/2021 18:49 | 4.8 | 16.0 | 3.7 | 0 | 1 | 1004 | 1004 | 0 | 13.9 |
| 12/05/2021 19:49 | 4.8 | 16.8 | 3.5 | 0 | 2 | 1003 | 1003 | 0 | 13.4 |
| 12/05/2021 20:49 | 4.8 | 16.0 | 3.4 | 0 | 3 | 1003 | 1003 | 0 | 12.8 |
| 12/05/2021 21:49 | 4.8 | 16.0 | 3.3 | 0 | 3 | 1003 | 1003 | 0 | 12.1 |
| 12/05/2021 22:49 | 4.8 | 16.8 | 3.2 | 0 | 2 | 1003 | 1003 | 0 | 11.6 |
| 12/05/2021 23:49 | 4.8 | 16.0 | 3.1 | 0 | 3 | 1002 | 1002 | 0 | 11.3 |
| 13/05/2021 00:49 | 4.8 | 16.0 | 3.0 | 0 | 3 | 1001 | 1001 | 0 | 10.9 |
| 13/05/2021 01:49 | 4.8 | 16.0 | 2.8 | 0 | 3 | 1001 | 1001 | 0 | 10.8 |
| 13/05/2021 02:49 | 4.8 | 16.0 | 2.7 | 0 | 4 | 1001 | 1001 | 0 | 10.6 |
| 13/05/2021 03:49 | 5.2 | 16.8 | 2.6 | 0 | 5 | 1001 | 1001 | 0 | 10.4 |
| 13/05/2021 04:49 | 4.8 | 16.8 | 2.5 | 0 | 4 | 1000 | 1000 | 0 | 10.0 |
| 13/05/2021 05:49 | 5.2 | 16.0 | 2.4 | 0 | 4 | 1000 | 1000 | 0 | 9.7 |
| 13/05/2021 06:49 | 4.8 | 16.8 | 2.3 | 0 | 5 | 1000 | 1000 | 0 | 9.5 |
| 13/05/2021 07:49 | 5.2 | 16.8 | 2.2 | 0 | 6 | 1000 | 1000 | 0 | 9.4 |
| 13/05/2021 08:49 | 5.2 | 16.8 | 2.2 | 0 | 4 | 1000 | 1000 | 0 | 9.4 |
| 13/05/2021 09:49 | 5.2 | 16.8 | 2.2 | 0 | 3 | 1001 | 1001 | 0 | 9.8 |
| 13/05/2021 10:49 | 5.2 | 16.8 | 2.2 | 0 | 4 | 1001 | 1001 | 0 | 10.3 |
| 13/05/2021 11:49 | 5.2 | 17.6 | 2.2 | 0 | 3 | 1001 | 1001 | 0 | 10.6 |
| 13/05/2021 12:49 | 5.2 | 16.8 | 2.2 | 0 | 2 | 1001 | 1001 | 0 | 11.6 |

| Date and Time | $CH_4$ % v/v | $CO_2$ % v/v | $O_2$ % v/v | $H_2S$ ppm/v | CO ppm/v | Borehole Pressure mbar | Atmospheric Pressure mbar | Differential Pressure mbar | Temperature °C |
|---|---|---|---|---|---|---|---|---|---|
| 13/05/2021 13:49 | 5.2 | 16.8 | 2.3 | 0 | 2 | 1001 | 1001 | 0 | 12.9 |
| 13/05/2021 14:49 | 5.2 | 16.8 | 2.3 | 0 | 1 | 1001 | 1001 | 0 | 13.8 |
| 13/05/2021 15:49 | 5.2 | 16.8 | 2.2 | 0 | 3 | 1001 | 1001 | 0 | 13.9 |
| 13/05/2021 16:49 | 5.2 | 17.6 | 2.2 | 0 | 3 | 1001 | 1001 | 0 | 13.6 |
| 13/05/2021 17:49 | 5.6 | 17.6 | 2.1 | 0 | 3 | 1001 | 1001 | 0 | 13.4 |
| 13/05/2021 18:49 | 5.6 | 17.6 | 2.0 | 0 | 5 | 1001 | 1001 | 0 | 12.7 |
| 13/05/2021 19:49 | 5.6 | 16.8 | 1.9 | 0 | 5 | 1002 | 1002 | 0 | 12.0 |
| 13/05/2021 20:49 | 5.2 | 17.6 | 1.9 | 0 | 4 | 1002 | 1002 | 0 | 11.3 |
| 13/05/2021 21:49 | 5.6 | 17.6 | 1.9 | 0 | 5 | 1003 | 1003 | 0 | 10.8 |
| 13/05/2021 22:49 | 5.6 | 17.6 | 2.0 | 0 | 4 | 1003 | 1003 | 0 | 10.3 |
| 13/05/2021 23:49 | 5.6 | 17.6 | 2.0 | 0 | 3 | 1003 | 1003 | 0 | 9.8 |
| 14/05/2021 00:49 | 5.6 | 17.6 | 2.1 | 0 | 3 | 1003 | 1003 | 0 | 9.5 |
| 14/05/2021 01:49 | 5.6 | 17.6 | 2.1 | 0 | 2 | 1003 | 1003 | 0 | 9.3 |
| 14/05/2021 02:49 | 5.6 | 17.6 | 2.2 | 0 | 3 | 1004 | 1004 | 0 | 9.1 |
| 14/05/2021 03:49 | 5.6 | 17.6 | 2.2 | 0 | 2 | 1004 | 1004 | 0 | 8.9 |
| 14/05/2021 04:49 | 5.6 | 16.8 | 2.2 | 0 | 2 | 1004 | 1004 | 0 | 8.8 |
| 14/05/2021 05:49 | 5.6 | 17.6 | 2.3 | 0 | 3 | 1004 | 1004 | 0 | 8.6 |
| 14/05/2021 06:49 | 5.6 | 16.8 | 2.3 | 0 | 2 | 1004 | 1005 | 1 | 8.6 |
| 14/05/2021 07:49 | 5.6 | 16.8 | 2.4 | 0 | 1 | 1006 | 1006 | 0 | 8.8 |
| 14/05/2021 08:49 | 5.6 | 17.6 | 2.4 | 0 | 1 | 1006 | 1006 | 0 | 9.2 |
| 14/05/2021 09:49 | 5.6 | 17.6 | 2.5 | 0 | 1 | 1006 | 1006 | 0 | 9.6 |
| 14/05/2021 10:49 | 5.6 | 17.6 | 2.5 | 0 | 1 | 1007 | 1007 | 0 | 10.1 |
| 14/05/2021 11:49 | 5.6 | 17.6 | 2.6 | 0 | 0 | 1007 | 1007 | 0 | 10.7 |
| 14/05/2021 12:49 | 5.6 | 16.8 | 2.6 | 0 | 0 | 1007 | 1007 | 0 | 11.6 |
| 14/05/2021 13:49 | 5.6 | 16.8 | 2.6 | 0 | 0 | 1007 | 1007 | 0 | 12.1 |
| 14/05/2021 14:49 | 5.6 | 17.6 | 2.7 | 0 | 0 | 1006 | 1007 | 1 | 12.5 |
| 14/05/2021 15:49 | 5.6 | 17.6 | 2.7 | 0 | 0 | 1006 | 1006 | 0 | 12.8 |
| 14/05/2021 16:49 | 5.6 | 17.6 | 2.7 | 0 | 0 | 1006 | 1006 | 0 | 12.4 |
| 14/05/2021 17:49 | 5.6 | 17.6 | 2.7 | 0 | 0 | 1006 | 1006 | 0 | 11.9 |
| 14/05/2021 18:49 | 5.6 | 17.6 | 2.7 | 0 | 2 | 1005 | 1005 | 0 | 11.4 |
| 14/05/2021 19:49 | 5.6 | 17.6 | 2.8 | 0 | 2 | 1005 | 1005 | 0 | 11.1 |
| 14/05/2021 20:49 | 5.2 | 17.6 | 2.8 | 0 | 1 | 1005 | 1005 | 0 | 10.7 |
| 14/05/2021 21:49 | 5.6 | 16.8 | 2.8 | 0 | 1 | 1004 | 1005 | 1 | 10.1 |
| 14/05/2021 22:49 | 5.6 | 16.8 | 2.8 | 0 | 1 | 1004 | 1004 | 0 | 9.6 |
| 14/05/2021 23:49 | 5.2 | 17.6 | 2.8 | 0 | 2 | 1003 | 1004 | 1 | 9.4 |
| 15/05/2021 00:49 | 5.6 | 17.6 | 2.8 | 0 | 1 | 1002 | 1002 | 0 | 9.3 |
| 15/05/2021 01:49 | 5.6 | 16.8 | 2.7 | 0 | 1 | 1001 | 1001 | 0 | 9.1 |
| 15/05/2021 02:49 | 5.2 | 16.8 | 2.6 | 0 | 3 | 1000 | 1000 | 0 | 9.1 |
| 15/05/2021 03:49 | 5.2 | 16.8 | 2.4 | 0 | 2 | 1000 | 999 | -1 | 8.9 |
| 15/05/2021 04:49 | 5.6 | 16.8 | 2.3 | 0 | 3 | 999 | 999 | 0 | 8.7 |
| 15/05/2021 05:49 | 5.6 | 16.8 | 2.2 | 0 | 3 | 998 | 998 | 0 | 8.5 |
| 15/05/2021 06:49 | 5.6 | 17.6 | 2.1 | 0 | 5 | 997 | 997 | 0 | 8.3 |
| 15/05/2021 07:49 | 5.6 | 17.6 | 2.0 | 0 | 3 | 997 | 997 | 0 | 8.2 |
| 15/05/2021 08:49 | 5.2 | 17.6 | 1.9 | 0 | 4 | 996 | 996 | 0 | 8.3 |
| 15/05/2021 09:49 | 5.6 | 16.8 | 1.8 | 0 | 4 | 996 | 995 | -1 | 8.6 |
| 15/05/2021 10:49 | 5.6 | 17.6 | 1.8 | 0 | 5 | 996 | 996 | 0 | 9.1 |
| 15/05/2021 11:49 | 5.2 | 17.6 | 1.8 | 0 | 3 | 996 | 996 | 0 | 9.6 |
| 15/05/2021 12:49 | 5.6 | 17.6 | 1.8 | 0 | 3 | 996 | 996 | 0 | 10.1 |
| 15/05/2021 13:49 | 5.6 | 17.6 | 1.9 | 0 | 2 | 996 | 996 | 0 | 10.8 |
| 15/05/2021 14:49 | 5.2 | 18.3 | 2.0 | 0 | 2 | 996 | 996 | 0 | 11.1 |
| 15/05/2021 15:49 | 5.6 | 17.6 | 2.1 | 0 | 1 | 996 | 996 | 0 | 11.0 |
| 15/05/2021 16:49 | 5.6 | 17.6 | 2.1 | 0 | 1 | 996 | 996 | 0 | 11.3 |
| 15/05/2021 17:49 | 5.2 | 17.6 | 2.2 | 0 | 0 | 996 | 996 | 0 | 11.8 |
| 15/05/2021 18:49 | 5.2 | 17.6 | 2.3 | 0 | 2 | 996 | 996 | 0 | 11.6 |
| 15/05/2021 19:49 | 5.2 | 17.6 | 2.4 | 0 | 1 | 996 | 996 | 0 | 11.3 |
| 15/05/2021 20:49 | 5.2 | 17.6 | 2.4 | 0 | 0 | 997 | 997 | 0 | 10.8 |
| 15/05/2021 21:49 | 5.2 | 17.6 | 2.5 | 0 | 1 | 997 | 997 | 0 | 10.1 |
| 15/05/2021 22:49 | 5.2 | 16.8 | 2.5 | 0 | 1 | 997 | 997 | 0 | 9.8 |
| 15/05/2021 23:49 | 5.2 | 17.6 | 2.6 | 0 | 0 | 997 | 997 | 0 | 9.4 |
| 16/05/2021 00:49 | 5.2 | 16.8 | 2.7 | 0 | 0 | 997 | 997 | 0 | 9.3 |
| 16/05/2021 01:49 | 4.8 | 16.8 | 2.7 | 0 | 2 | 997 | 997 | 0 | 8.9 |
| 16/05/2021 02:49 | 5.2 | 16.8 | 2.8 | 0 | 0 | 996 | 996 | 0 | 8.6 |
| 16/05/2021 03:49 | 5.2 | 17.6 | 2.8 | 0 | 1 | 996 | 996 | 0 | 8.4 |
| 16/05/2021 04:49 | 5.6 | 16.8 | 2.8 | 0 | 1 | 996 | 996 | 0 | 8.3 |
| 16/05/2021 05:49 | 5.2 | 16.8 | 2.8 | 0 | 1 | 996 | 996 | 0 | 8.1 |
| 16/05/2021 06:49 | 5.2 | 16.8 | 2.9 | 0 | 1 | 996 | 996 | 0 | 7.9 |
| 16/05/2021 07:49 | 5.2 | 16.8 | 2.9 | 0 | 1 | 996 | 996 | 0 | 7.9 |
| 16/05/2021 08:49 | 5.2 | 16.8 | 2.9 | 0 | 0 | 996 | 995 | -1 | 7.9 |
| 16/05/2021 09:49 | 5.2 | 16.8 | 2.9 | 0 | 1 | 996 | 995 | -1 | 8.1 |
| 16/05/2021 10:49 | 5.2 | 16.8 | 2.9 | 0 | 0 | 995 | 995 | 0 | 8.6 |
| 16/05/2021 11:49 | 4.8 | 16.8 | 3.0 | 0 | 0 | 995 | 995 | 0 | 9.4 |
| 16/05/2021 12:49 | 4.8 | 16.8 | 3.0 | 0 | 0 | 995 | 994 | -1 | 10.1 |
| 16/05/2021 13:49 | 4.8 | 16.8 | 3.0 | 0 | 0 | 994 | 994 | 0 | 10.7 |
| 16/05/2021 14:49 | 4.8 | 16.8 | 3.0 | 0 | 0 | 994 | 994 | 0 | 10.7 |
| 16/05/2021 15:49 | 4.8 | 16.8 | 3.0 | 0 | 0 | 993 | 993 | 0 | 10.9 |
| 16/05/2021 16:49 | 4.8 | 16.8 | 3.0 | 0 | 0 | 993 | 993 | 0 | 11.1 |
| 16/05/2021 17:49 | 4.8 | 16.8 | 3.0 | 0 | 0 | 992 | 992 | 0 | 10.8 |
| 16/05/2021 18:49 | 4.8 | 16.8 | 3.0 | 0 | 0 | 992 | 992 | 0 | 10.4 |
| 16/05/2021 19:49 | 4.8 | 16.8 | 3.0 | 0 | 0 | 992 | 992 | 0 | 10.1 |
| 16/05/2021 20:49 | 4.8 | 16.8 | 3.0 | 0 | 1 | 992 | 992 | 0 | 9.9 |
| 16/05/2021 21:49 | 4.8 | 16.8 | 3.0 | 0 | 1 | 993 | 993 | 0 | 9.6 |
| 16/05/2021 22:49 | 4.8 | 16.8 | 3.0 | 0 | 2 | 994 | 994 | 0 | 9.4 |
| 16/05/2021 23:49 | 4.8 | 16.8 | 3.0 | 0 | 1 | 995 | 994 | -1 | 9.1 |
| 17/05/2021 00:49 | 4.8 | 16.8 | 3.0 | 0 | 1 | 995 | 995 | 0 | 8.9 |
| 17/05/2021 01:49 | 4.8 | 16.8 | 2.9 | 0 | 1 | 996 | 996 | 0 | 8.7 |
| 17/05/2021 02:49 | 4.8 | 16.8 | 2.9 | 0 | 1 | 996 | 996 | 0 | 8.5 |
| 17/05/2021 03:49 | 4.4 | 16.8 | 2.9 | 0 | 2 | 997 | 997 | 0 | 8.3 |
| 17/05/2021 04:49 | 4.8 | 16.8 | 2.9 | 0 | 1 | 998 | 998 | 0 | 8.1 |
| 17/05/2021 05:49 | 4.8 | 16.8 | 2.9 | 0 | 2 | 999 | 999 | 0 | 7.9 |

| Date and Time | $CH_4$ % v/v | $CO_2$ % v/v | $O_2$ % v/v | $H_2S$ ppm/v | CO ppm/v | Borehole Pressure mbar | Atmospheric Pressure mbar | Differential Pressure mbar | Temperature °C |
|---|---|---|---|---|---|---|---|---|---|
| 17/05/2021 06:49 | 4.8 | 16.8 | 2.9 | 0 | 1 | 1000 | 999 | -1 | 7.9 |
| 17/05/2021 07:49 | 4.8 | 16.8 | 2.9 | 0 | 1 | 1000 | 1000 | 0 | 8.1 |
| 17/05/2021 08:49 | 4.4 | 16.0 | 2.9 | 0 | 1 | 1001 | 1001 | 0 | 8.6 |
| 17/05/2021 09:49 | 4.8 | 16.8 | 2.9 | 0 | 0 | 1002 | 1002 | 0 | 9.2 |
| 17/05/2021 10:49 | 4.4 | 16.8 | 2.9 | 0 | 0 | 1003 | 1003 | 0 | 9.9 |
| 17/05/2021 11:49 | 4.4 | 16.8 | 2.9 | 0 | 0 | 1003 | 1003 | 0 | 10.6 |
| 17/05/2021 12:49 | 4.4 | 16.8 | 2.8 | 0 | 0 | 1003 | 1003 | 0 | 10.8 |
| 17/05/2021 13:49 | 4.4 | 17.6 | 2.8 | 0 | 0 | 1003 | 1004 | 1 | 10.9 |
| 17/05/2021 14:49 | 4.4 | 17.6 | 2.8 | 0 | 0 | 1003 | 1004 | 1 | 11.8 |
| 17/05/2021 15:49 | 4.4 | 17.6 | 2.8 | 0 | 0 | 1004 | 1005 | 1 | 12.7 |
| 17/05/2021 16:49 | 4.4 | 16.8 | 2.8 | 0 | 0 | 1005 | 1005 | 0 | 13.3 |
| 17/05/2021 17:49 | 4.4 | 16.8 | 2.8 | 0 | 1 | 1005 | 1005 | 0 | 12.8 |
| 17/05/2021 18:49 | 4.4 | 17.6 | 2.8 | 0 | 1 | 1005 | 1005 | 0 | 12.9 |
| 17/05/2021 19:49 | 4.4 | 17.6 | 2.8 | 0 | 0 | 1006 | 1006 | 0 | 12.9 |
| 17/05/2021 20:49 | 4.4 | 17.6 | 2.8 | 0 | 2 | 1006 | 1006 | 0 | 12.1 |
| 17/05/2021 21:49 | 4.4 | 17.6 | 2.8 | 0 | 3 | 1007 | 1007 | 0 | 11.3 |
| 17/05/2021 22:49 | 4.4 | 17.6 | 2.7 | 0 | 3 | 1008 | 1008 | 0 | 10.6 |
| 17/05/2021 23:49 | 4.4 | 16.8 | 2.7 | 0 | 2 | 1008 | 1008 | 0 | 10.1 |
| 18/05/2021 00:49 | 4.4 | 17.6 | 2.7 | 0 | 4 | 1008 | 1009 | 1 | 9.6 |
| 18/05/2021 01:49 | 4.4 | 16.8 | 2.7 | 0 | 3 | 1009 | 1009 | 0 | 8.8 |
| 18/05/2021 02:49 | 4.4 | 17.6 | 2.7 | 0 | 3 | 1009 | 1009 | 0 | 8.3 |
| 18/05/2021 03:49 | 4.4 | 17.0 | 2.6 | 0 | 3 | 1009 | 1009 | 0 | 7.6 |
| 18/05/2021 04:49 | 4.4 | 16.8 | 2.6 | 0 | 3 | 1009 | 1010 | 1 | 7.1 |
| 18/05/2021 05:49 | 4.4 | 16.8 | 2.6 | 0 | 2 | 1010 | 1010 | 0 | 6.8 |
| 18/05/2021 06:49 | 4.4 | 17.6 | 2.6 | 0 | 2 | 1010 | 1010 | 0 | 6.6 |
| 18/05/2021 07:49 | 4.4 | 17.6 | 2.6 | 0 | 2 | 1010 | 1010 | 0 | 6.8 |
| 18/05/2021 08:49 | 4.4 | 17.6 | 2.6 | 0 | 1 | 1010 | 1010 | 0 | 7.5 |
| 18/05/2021 09:49 | 4.0 | 16.8 | 2.6 | 0 | 0 | 1011 | 1011 | 0 | 8.4 |
| 18/05/2021 10:49 | 4.4 | 16.8 | 2.6 | 0 | 0 | 1011 | 1011 | 0 | 9.3 |
| 18/05/2021 11:49 | 4.0 | 16.8 | 2.6 | 0 | 1 | 1011 | 1011 | 0 | 10.3 |
| 18/05/2021 12:49 | 4.0 | 17.6 | 2.6 | 0 | 0 | 1011 | 1011 | 0 | 11.1 |
| 18/05/2021 13:49 | 4.0 | 17.6 | 2.6 | 0 | 0 | 1011 | 1011 | 0 | 12.0 |
| 18/05/2021 14:49 | 4.0 | 17.6 | 2.6 | 0 | 0 | 1011 | 1011 | 0 | 13.1 |
| 18/05/2021 15:49 | 4.0 | 17.6 | 2.6 | 0 | 0 | 1011 | 1011 | 0 | 13.9 |
| 18/05/2021 16:49 | 4.0 | 17.6 | 2.7 | 0 | 0 | 1011 | 1011 | 0 | 14.3 |
| 18/05/2021 17:49 | 4.0 | 17.6 | 2.7 | 0 | 1 | 1011 | 1011 | 0 | 13.5 |
| 18/05/2021 18:49 | 4.0 | 17.6 | 2.7 | 0 | 2 | 1011 | 1012 | 1 | 12.6 |
| 18/05/2021 19:49 | 4.0 | 17.6 | 2.7 | 0 | 2 | 1012 | 1012 | 0 | 12.1 |
| 18/05/2021 20:49 | 4.0 | 16.8 | 2.7 | 0 | 2 | 1012 | 1012 | 0 | 11.5 |
| 18/05/2021 21:49 | 4.0 | 16.8 | 2.7 | 0 | 3 | 1012 | 1012 | 0 | 10.9 |
| 18/05/2021 22:49 | 4.0 | 17.6 | 2.7 | 0 | 1 | 1012 | 1012 | 0 | 10.4 |
| 18/05/2021 23:49 | 4.0 | 16.8 | 2.7 | 0 | 2 | 1012 | 1012 | 0 | 10.1 |
| 19/05/2021 00:49 | 4.0 | 17.6 | 2.7 | 0 | 1 | 1012 | 1012 | 0 | 9.7 |
| 19/05/2021 01:49 | 4.0 | 17.6 | 2.6 | 0 | 2 | 1011 | 1011 | 0 | 9.5 |
| 19/05/2021 02:49 | 3.6 | 16.8 | 2.6 | 0 | 1 | 1011 | 1011 | 0 | 9.3 |
| 19/05/2021 03:49 | 3.6 | 17.6 | 2.6 | 0 | 2 | 1011 | 1011 | 0 | 9.1 |
| 19/05/2021 04:49 | 3.6 | 17.6 | 2.6 | 0 | 2 | 1011 | 1011 | 0 | 8.8 |
| 19/05/2021 05:49 | 3.6 | 17.6 | 2.6 | 0 | 2 | 1012 | 1012 | 0 | 8.5 |
| 19/05/2021 06:49 | 3.6 | 17.6 | 2.6 | 0 | 2 | 1012 | 1012 | 0 | 8.4 |
| 19/05/2021 07:49 | 3.6 | 17.6 | 2.6 | 0 | 2 | 1013 | 1013 | 0 | 8.4 |

# GGS Time Series Data

Experts in Continuous Monitoring

| | |
|---|---|
| GGS2440 | |
| Broadmarsh open Space, Harts Farm Way | |
| RO106 | |
| 317/06/12 | Days of monitoring: 28 |
| 29/04/2021 12:08 | Monitoring Frequency (mins): 60 |
| 19/05/2021 07:08 | Total samples taken: 476 |

**Minimum, Maximum and Range Table**

| | $CH_4$ | $O_2$ | $H_2S$ | CO | Borehole Pressure | Atmospheric Pressure | Differential Pressure | Temperature |
|---|---|---|---|---|---|---|---|---|
| **Minimum** | 0.6 | 0.0 | 0 | 0 | 991 | 992 | -3 | 4.2 |
| **Maximum** | 60.0 | 19.7 | 0 | 12 | 1020 | 1019 | 3 | 17.1 |
| **Range** | 59.4 | 19.7 | 0 | 12 | 29 | 27 | N/A | 12.9 |

| Date and Time | $CH_4$ % v/v | $O_2$ % v/v | $H_2S$ ppm/v | CO ppm/v | Borehole Pressure mbar | Atmospheric Pressure mbar | Differential Pressure mbar | Temperature °C |
|---|---|---|---|---|---|---|---|---|
| 29/04/2021 12:08 | 0.6 | 19.7 | 0 | 0 | 1009 | 1009 | 0 | 11.9 |
| 29/04/2021 13:08 | 1.0 | 19.1 | 0 | 0 | 1009 | 1009 | 0 | 11.6 |
| 29/04/2021 14:08 | 1.3 | 18.7 | 0 | 0 | 1010 | 1009 | -1 | 11.8 |
| 29/04/2021 15:08 | 1.9 | 18.2 | 0 | 0 | 1010 | 1009 | -1 | 11.9 |
| 29/04/2021 16:08 | 2.4 | 17.7 | 0 | 0 | 1010 | 1010 | 0 | 12.0 |
| 29/04/2021 17:08 | 2.9 | 17.2 | 0 | 0 | 1010 | 1010 | 0 | 12.4 |
| 29/04/2021 18:08 | 3.2 | 16.6 | 0 | 0 | 1010 | 1010 | 0 | 12.5 |
| 29/04/2021 19:08 | 3.5 | 16.2 | 0 | 0 | 1010 | 1010 | 0 | 12.2 |
| 29/04/2021 20:08 | 3.9 | 15.7 | 0 | 0 | 1010 | 1010 | 0 | 11.8 |
| 29/04/2021 21:08 | 4.2 | 15.2 | 0 | 0 | 1011 | 1011 | 0 | 10.9 |
| 29/04/2021 22:08 | 4.5 | 14.7 | 0 | 0 | 1011 | 1011 | 0 | 9.8 |
| 29/04/2021 23:08 | 5.0 | 14.1 | 0 | 0 | 1011 | 1011 | 0 | 8.9 |
| 30/04/2021 00:08 | 5.5 | 13.4 | 0 | 0 | 1012 | 1011 | -1 | 8.1 |
| 30/04/2021 01:08 | 5.8 | 12.9 | 0 | 0 | 1012 | 1011 | -1 | 7.4 |
| 30/04/2021 02:08 | 6.1 | 12.3 | 0 | 0 | 1012 | 1011 | -1 | 6.8 |
| 30/04/2021 03:08 | 6.5 | 11.8 | 0 | 0 | 1011 | 1011 | 0 | 6.3 |
| 30/04/2021 04:08 | 7.1 | 11.3 | 0 | 0 | 1011 | 1011 | 0 | 5.9 |
| 30/04/2021 05:08 | 7.3 | 10.9 | 0 | 0 | 1011 | 1012 | 1 | 5.8 |
| 30/04/2021 06:08 | 7.5 | 10.4 | 0 | 0 | 1012 | 1012 | 0 | 5.6 |
| 30/04/2021 07:08 | 7.7 | 10.1 | 0 | 0 | 1012 | 1012 | 0 | 5.6 |
| 30/04/2021 08:08 | 8.1 | 9.6 | 0 | 0 | 1012 | 1012 | 0 | 5.8 |
| 30/04/2021 09:08 | 8.3 | 9.5 | 0 | 0 | 1013 | 1012 | -1 | 6.4 |
| 30/04/2021 10:08 | 8.9 | 9.1 | 0 | 0 | 1013 | 1012 | -1 | 7.4 |
| 30/04/2021 11:08 | 8.9 | 8.9 | 0 | 0 | 1012 | 1012 | 0 | 9.0 |
| 30/04/2021 12:08 | 8.9 | 8.8 | 0 | 0 | 1013 | 1012 | -1 | 9.9 |
| 30/04/2021 13:08 | 9.3 | 8.5 | 0 | 0 | 1013 | 1012 | -1 | 10.2 |
| 30/04/2021 14:08 | 9.4 | 8.3 | 0 | 0 | 1013 | 1012 | -1 | 10.7 |
| 30/04/2021 15:08 | 9.4 | 8.1 | 0 | 0 | 1013 | 1012 | -1 | 11.7 |
| 30/04/2021 16:08 | 9.4 | 7.8 | 0 | 0 | 1013 | 1012 | -1 | 11.6 |
| 30/04/2021 17:08 | 9.7 | 7.6 | 0 | 0 | 1012 | 1012 | 0 | 11.8 |
| 30/04/2021 18:08 | 9.6 | 7.3 | 0 | 0 | 1013 | 1012 | -1 | 12.5 |
| 30/04/2021 19:08 | 9.5 | 7.1 | 0 | 0 | 1013 | 1012 | -1 | 12.5 |
| 30/04/2021 20:08 | 9.8 | 6.9 | 0 | 0 | 1013 | 1013 | 0 | 11.9 |
| 30/04/2021 21:08 | 9.8 | 6.6 | 0 | 0 | 1013 | 1013 | 0 | 10.9 |
| 30/04/2021 22:08 | 9.7 | 6.4 | 0 | 0 | 1013 | 1013 | 0 | 9.8 |
| 30/04/2021 23:08 | 10.0 | 6.2 | 0 | 0 | 1013 | 1013 | 0 | 8.8 |
| 01/05/2021 00:08 | 10.3 | 6.0 | 0 | 0 | 1013 | 1013 | 0 | 7.9 |
| 01/05/2021 01:08 | 10.5 | 5.7 | 0 | 0 | 1013 | 1013 | 0 | 7.2 |
| 01/05/2021 02:08 | 10.5 | 5.5 | 0 | 0 | 1013 | 1012 | -1 | 6.5 |
| 01/05/2021 03:08 | 10.5 | 5.3 | 0 | 0 | 1013 | 1012 | -1 | 5.9 |
| 01/05/2021 04:08 | 10.6 | 5.1 | 0 | 0 | 1012 | 1012 | 0 | 5.4 |
| 01/05/2021 05:08 | 10.7 | 4.9 | 0 | 0 | 1012 | 1013 | 1 | 4.9 |
| 01/05/2021 06:08 | 10.6 | 4.8 | 0 | 0 | 1012 | 1013 | 1 | 4.4 |
| 01/05/2021 07:08 | 10.7 | 4.6 | 0 | 0 | 1013 | 1014 | 1 | 4.2 |
| 01/05/2021 08:08 | 11.0 | 4.5 | 0 | 1 | 1013 | 1014 | 1 | 4.4 |
| 01/05/2021 09:08 | 11.4 | 4.3 | 0 | 1 | 1013 | 1013 | 0 | 5.3 |
| 01/05/2021 10:08 | 11.5 | 4.2 | 0 | 1 | 1014 | 1013 | -1 | 6.7 |
| 01/05/2021 11:08 | 11.6 | 4.1 | 0 | 2 | 1014 | 1013 | -1 | 8.4 |
| 01/05/2021 12:08 | 11.9 | 4.0 | 0 | 0 | 1014 | 1013 | -1 | 9.9 |
| 01/05/2021 13:08 | 11.9 | 3.8 | 0 | 0 | 1014 | 1014 | 0 | 10.0 |
| 01/05/2021 14:08 | 11.7 | 3.7 | 0 | 0 | 1014 | 1013 | -1 | 9.8 |
| 01/05/2021 15:08 | 11.9 | 3.5 | 0 | 0 | 1014 | 1014 | 0 | 9.5 |
| 01/05/2021 16:08 | 11.6 | 3.4 | 0 | 1 | 1014 | 1014 | 0 | 9.6 |
| 01/05/2021 17:08 | 11.9 | 3.3 | 0 | 0 | 1014 | 1014 | 0 | 10.1 |
| 01/05/2021 18:08 | 12.0 | 3.2 | 0 | 0 | 1014 | 1014 | 0 | 10.1 |
| 01/05/2021 19:08 | 11.8 | 3.1 | 0 | 0 | 1015 | 1015 | 0 | 9.8 |
| 01/05/2021 20:08 | 12.0 | 3.0 | 0 | 0 | 1015 | 1015 | 0 | 9.8 |
| 01/05/2021 21:08 | 12.1 | 2.9 | 0 | 0 | 1016 | 1015 | -1 | 9.4 |
| 01/05/2021 22:08 | 11.8 | 2.8 | 0 | 1 | 1016 | 1015 | -1 | 8.7 |
| 01/05/2021 23:08 | 12.2 | 2.7 | 0 | 1 | 1016 | 1016 | 0 | 8.1 |
| 02/05/2021 00:08 | 12.1 | 2.5 | 0 | 1 | 1016 | 1016 | 0 | 7.6 |
| 02/05/2021 01:08 | 12.3 | 2.4 | 0 | 1 | 1017 | 1016 | -1 | 7.1 |
| 02/05/2021 02:08 | 11.9 | 2.3 | 0 | 1 | 1016 | 1016 | 0 | 6.4 |
| 02/05/2021 03:08 | 12.1 | 2.2 | 0 | 1 | 1017 | 1016 | -1 | 5.9 |
| 02/05/2021 04:08 | 12.4 | 2.2 | 0 | 1 | 1017 | 1017 | 0 | 5.3 |
| 02/05/2021 05:08 | 12.2 | 2.1 | 0 | 1 | 1017 | 1017 | 0 | 4.8 |
| 02/05/2021 06:08 | 12.2 | 2.0 | 0 | 1 | 1018 | 1018 | 0 | 4.4 |
| 02/05/2021 07:08 | 12.0 | 1.9 | 0 | 1 | 1018 | 1018 | 0 | 4.2 |
| 02/05/2021 08:08 | 12.0 | 1.9 | 0 | 1 | 1019 | 1019 | 0 | 4.4 |
| 02/05/2021 09:08 | 12.4 | 1.8 | 0 | 3 | 1019 | 1019 | 0 | 5.1 |
| 02/05/2021 10:08 | 12.3 | 1.8 | 0 | 2 | 1019 | 1018 | -1 | 6.4 |
| 02/05/2021 11:08 | 12.3 | 1.8 | 0 | 3 | 1020 | 1018 | -2 | 8.0 |
| 02/05/2021 12:08 | 12.1 | 1.7 | 0 | 2 | 1019 | 1018 | -1 | 9.7 |
| 02/05/2021 13:08 | 12.0 | 1.6 | 0 | 1 | 1019 | 1018 | -1 | 10.8 |
| 02/05/2021 14:08 | 12.0 | 1.6 | 0 | 1 | 1019 | 1018 | -1 | 11.3 |
| 02/05/2021 15:08 | 12.2 | 1.5 | 0 | 3 | 1019 | 1018 | -1 | 11.7 |
| 02/05/2021 16:08 | 12.1 | 1.5 | 0 | 3 | 1019 | 1018 | -1 | 12.2 |
| 02/05/2021 17:08 | 12.2 | 1.4 | 0 | 3 | 1019 | 1018 | -1 | 12.8 |
| 02/05/2021 18:08 | 11.8 | 1.3 | 0 | 2 | 1019 | 1018 | -1 | 12.9 |
| 02/05/2021 19:08 | 12.1 | 1.3 | 0 | 3 | 1019 | 1018 | -1 | 12.5 |
| 02/05/2021 20:08 | 12.1 | 1.2 | 0 | 3 | 1020 | 1019 | -1 | 11.9 |
| 02/05/2021 21:08 | 12.2 | 1.1 | 0 | 2 | 1020 | 1019 | -1 | 11.1 |
| 02/05/2021 22:08 | 12.1 | 1.1 | 0 | 3 | 1020 | 1019 | -1 | 10.1 |
| 02/05/2021 23:08 | 12.1 | 1.0 | 0 | 2 | 1020 | 1019 | -1 | 9.6 |
| 03/05/2021 00:08 | 11.9 | 1.0 | 0 | 3 | 1020 | 1019 | -1 | 9.0 |
| 03/05/2021 01:08 | 12.2 | 0.9 | 0 | 3 | 1019 | 1019 | 0 | 8.3 |
| 03/05/2021 02:08 | 11.8 | 0.9 | 0 | 3 | 1019 | 1018 | -1 | 7.7 |
| 03/05/2021 03:08 | 12.0 | 0.8 | 0 | 2 | 1019 | 1018 | -1 | 7.1 |
| 03/05/2021 04:08 | 12.1 | 0.8 | 0 | 3 | 1018 | 1017 | -1 | 6.6 |
| 03/05/2021 05:08 | 12.1 | 0.7 | 0 | 3 | 1018 | 1017 | -1 | 6.2 |
| 03/05/2021 06:08 | 12.0 | 0.7 | 0 | 3 | 1018 | 1017 | -1 | 5.9 |
| 03/05/2021 07:08 | 12.2 | 0.7 | 0 | 3 | 1018 | 1017 | -1 | 5.7 |
| 03/05/2021 08:08 | 12.5 | 0.7 | 0 | 3 | 1017 | 1017 | 0 | 5.9 |
| 03/05/2021 09:08 | 12.4 | 0.6 | 0 | 5 | 1017 | 1016 | -1 | 6.8 |
| 03/05/2021 10:08 | 12.9 | 0.6 | 0 | 5 | 1016 | 1015 | -1 | 7.9 |
| 03/05/2021 11:08 | 13.2 | 0.6 | 0 | 5 | 1015 | 1014 | -1 | 9.1 |

| Date and Time | $CH_4$ % v/v | $O_2$ % v/v | $H_2S$ ppm/v | CO ppm/v | Borehole Pressure mbar | Atmospheric Pressure mbar | Differential Pressure mbar | Temperature °C |
|---|---|---|---|---|---|---|---|---|
| 03/05/2021 12:08 | 13.7 | 0.5 | 0 | 6 | 1015 | 1013 | -2 | 10.2 |
| 03/05/2021 13:08 | 14.0 | 0.5 | 0 | 6 | 1013 | 1011 | -2 | 11.3 |
| 03/05/2021 14:08 | 14.5 | 0.4 | 0 | 5 | 1012 | 1010 | -2 | 11.9 |
| 03/05/2021 15:08 | 16.9 | 0.2 | 0 | 7 | 1010 | 1008 | -2 | 12.1 |
| 03/05/2021 16:08 | 20.8 | 0.0 | 0 | 9 | 1009 | 1006 | -3 | 11.9 |
| 03/05/2021 17:08 | 23.7 | 0.0 | 0 | 9 | 1006 | 1004 | -2 | 11.6 |
| 03/05/2021 18:08 | 25.5 | 0.0 | 0 | 9 | 1004 | 1003 | -1 | 11.3 |
| 03/05/2021 19:08 | 27.4 | 0.0 | 0 | 10 | 1003 | 1000 | -3 | 10.8 |
| 03/05/2021 20:08 | 28.7 | 0.0 | 0 | 10 | 1000 | 999 | -1 | 10.2 |
| 03/05/2021 21:08 | 30.6 | 0.0 | 0 | 9 | 998 | 997 | -1 | 9.8 |
| 03/05/2021 22:08 | 31.3 | 0.0 | 0 | 9 | 997 | 996 | -1 | 9.4 |
| 03/05/2021 23:08 | 32.6 | 0.0 | 0 | 10 | 995 | 996 | 1 | 9.1 |
| 04/05/2021 00:08 | 33.8 | 0.0 | 0 | 9 | 994 | 995 | 1 | 9.1 |
| 04/05/2021 01:08 | 34.6 | 0.0 | 0 | 9 | 994 | 994 | 0 | 9.0 |
| 04/05/2021 02:08 | 35.4 | 0.0 | 0 | 9 | 993 | 994 | 1 | 8.9 |
| 04/05/2021 03:08 | 36.1 | 0.0 | 0 | 10 | 993 | 995 | 2 | 8.7 |
| 04/05/2021 04:08 | 37.0 | 0.0 | 0 | 9 | 993 | 994 | 1 | 8.5 |
| 04/05/2021 05:08 | 37.1 | 0.0 | 0 | 10 | 993 | 996 | 3 | 8.3 |
| 04/05/2021 06:08 | 38.2 | 0.0 | 0 | 9 | 994 | 997 | 3 | 8.2 |
| 04/05/2021 07:08 | 38.3 | 0.0 | 0 | 9 | 996 | 998 | 2 | 8.1 |
| 04/05/2021 08:08 | 38.2 | 0.0 | 0 | 9 | 997 | 999 | 2 | 8.1 |
| 04/05/2021 09:08 | 38.1 | 0.0 | 0 | 10 | 997 | 1000 | 3 | 8.6 |
| 04/05/2021 10:08 | 38.5 | 0.0 | 0 | 10 | 999 | 1000 | 1 | 9.3 |
| 04/05/2021 11:08 | 38.2 | 0.0 | 0 | 10 | 999 | 1001 | 2 | 9.9 |
| 04/05/2021 12:08 | 38.3 | 0.0 | 0 | 10 | 1000 | 1001 | 1 | 10.8 |
| 04/05/2021 13:08 | 38.0 | 0.0 | 0 | 11 | 1001 | 1001 | 0 | 11.7 |
| 04/05/2021 14:08 | 38.3 | 0.0 | 0 | 10 | 1001 | 1001 | 0 | 12.4 |
| 04/05/2021 15:08 | 38.3 | 0.0 | 0 | 11 | 1001 | 1001 | 0 | 13.0 |
| 04/05/2021 16:08 | 38.2 | 0.0 | 0 | 12 | 1001 | 1002 | 1 | 13.8 |
| 04/05/2021 17:08 | 38.6 | 0.0 | 0 | 11 | 1002 | 1002 | 0 | 14.4 |
| 04/05/2021 18:08 | 38.8 | 0.0 | 0 | 12 | 1002 | 1002 | 0 | 14.6 |
| 04/05/2021 19:08 | 39.2 | 0.0 | 0 | 11 | 1002 | 1003 | 1 | 14.1 |
| 04/05/2021 20:08 | 39.5 | 0.0 | 0 | 11 | 1003 | 1004 | 1 | 13.3 |
| 04/05/2021 21:08 | 39.6 | 0.0 | 0 | 10 | 1003 | 1004 | 1 | 12.2 |
| 04/05/2021 22:08 | 39.3 | 0.0 | 0 | 9 | 1003 | 1004 | 1 | 11.0 |
| 04/05/2021 23:08 | 39.3 | 0.0 | 0 | 10 | 1004 | 1004 | 0 | 10.0 |
| 05/05/2021 00:08 | 39.5 | 0.0 | 0 | 9 | 1004 | 1004 | 0 | 9.2 |
| 05/05/2021 01:08 | 39.6 | 0.0 | 0 | 9 | 1003 | 1004 | 1 | 8.6 |
| 05/05/2021 02:08 | 39.6 | 0.0 | 0 | 9 | 1004 | 1004 | 0 | 7.9 |
| 05/05/2021 03:08 | 40.0 | 0.0 | 0 | 9 | 1004 | 1004 | 0 | 7.3 |
| 05/05/2021 04:08 | 40.3 | 0.0 | 0 | 9 | 1004 | 1005 | 1 | 6.8 |
| 05/05/2021 05:08 | 40.9 | 0.0 | 0 | 9 | 1004 | 1006 | 2 | 6.3 |
| 05/05/2021 06:08 | 40.8 | 0.0 | 0 | 8 | 1005 | 1007 | 2 | 5.9 |
| 05/05/2021 07:08 | 40.9 | 0.0 | 0 | 9 | 1006 | 1007 | 1 | 5.8 |
| 05/05/2021 08:08 | 40.6 | 0.0 | 0 | 9 | 1006 | 1007 | 1 | 6.3 |
| 05/05/2021 09:08 | 40.3 | 0.0 | 0 | 10 | 1007 | 1007 | 0 | 7.3 |
| 05/05/2021 10:08 | 40.3 | 0.0 | 0 | 10 | 1007 | 1008 | 1 | 8.4 |
| 05/05/2021 11:08 | 40.2 | 0.0 | 0 | 10 | 1008 | 1008 | 0 | 9.6 |
| 05/05/2021 12:08 | 40.0 | 0.0 | 0 | 10 | 1008 | 1008 | 0 | 10.4 |
| 05/05/2021 13:08 | 40.3 | 0.0 | 0 | 10 | 1008 | 1008 | 0 | 11.2 |
| 05/05/2021 14:08 | 39.5 | 0.0 | 0 | 10 | 1009 | 1008 | -1 | 11.8 |
| 05/05/2021 15:08 | 39.8 | 0.0 | 0 | 10 | 1009 | 1008 | -1 | 12.1 |
| 05/05/2021 16:08 | 39.3 | 0.0 | 0 | 11 | 1008 | 1007 | -1 | 11.8 |
| 05/05/2021 17:08 | 40.9 | 0.0 | 0 | 11 | 1007 | 1008 | 1 | 11.9 |
| 05/05/2021 18:08 | 41.9 | 0.0 | 0 | 10 | 1008 | 1008 | 0 | 12.0 |
| 05/05/2021 19:08 | 42.0 | 0.0 | 0 | 10 | 1008 | 1008 | 0 | 11.5 |
| 05/05/2021 20:08 | 41.9 | 0.0 | 0 | 10 | 1008 | 1008 | 0 | 10.8 |
| 05/05/2021 21:08 | 42.1 | 0.0 | 0 | 9 | 1008 | 1008 | 0 | 10.1 |
| 05/05/2021 22:08 | 42.0 | 0.0 | 0 | 10 | 1008 | 1007 | -1 | 9.2 |
| 05/05/2021 23:08 | 42.3 | 0.0 | 0 | 9 | 1008 | 1007 | -1 | 8.4 |
| 06/05/2021 00:08 | 42.6 | 0.0 | 0 | 8 | 1007 | 1007 | 0 | 7.7 |
| 06/05/2021 01:08 | 43.0 | 0.0 | 0 | 9 | 1006 | 1006 | 0 | 7.1 |
| 06/05/2021 02:08 | 44.1 | 0.0 | 0 | 9 | 1006 | 1005 | -1 | 6.5 |
| 06/05/2021 03:08 | 44.9 | 0.0 | 0 | 9 | 1005 | 1005 | 0 | 6.0 |
| 06/05/2021 04:08 | 45.8 | 0.0 | 0 | 8 | 1004 | 1004 | 0 | 5.5 |
| 06/05/2021 05:08 | 46.2 | 0.0 | 0 | 9 | 1003 | 1004 | 1 | 5.0 |
| 06/05/2021 06:08 | 47.6 | 0.0 | 0 | 8 | 1003 | 1004 | 1 | 4.6 |
| 06/05/2021 07:08 | 47.0 | 0.0 | 0 | 9 | 1002 | 1004 | 2 | 4.3 |
| 06/05/2021 08:08 | 47.3 | 0.0 | 0 | 9 | 1002 | 1003 | 1 | 4.6 |
| 06/05/2021 09:08 | 47.0 | 0.0 | 0 | 10 | 1002 | 1003 | 1 | 5.6 |
| 06/05/2021 10:08 | 47.4 | 0.0 | 0 | 10 | 1002 | 1003 | 1 | 7.3 |
| 06/05/2021 11:08 | 47.8 | 0.0 | 0 | 10 | 1002 | 1003 | 1 | 8.2 |
| 06/05/2021 12:08 | 48.1 | 0.0 | 0 | 11 | 1002 | 1003 | 1 | 9.0 |
| 06/05/2021 13:08 | 47.7 | 0.0 | 0 | 11 | 1002 | 1003 | 1 | 10.1 |
| 06/05/2021 14:08 | 48.1 | 0.0 | 0 | 10 | 1002 | 1003 | 1 | 11.1 |
| 06/05/2021 15:08 | 47.6 | 0.0 | 0 | 11 | 1003 | 1003 | 0 | 11.9 |
| 06/05/2021 16:08 | 48.3 | 0.0 | 0 | 11 | 1003 | 1004 | 1 | 12.3 |
| 06/05/2021 17:08 | 48.1 | 0.0 | 0 | 11 | 1004 | 1005 | 1 | 12.6 |
| 06/05/2021 18:08 | 48.3 | 0.0 | 0 | 11 | 1004 | 1005 | 1 | 13.0 |
| 06/05/2021 19:08 | 48.6 | 0.0 | 0 | 11 | 1005 | 1006 | 1 | 13.6 |
| 06/05/2021 20:08 | 47.9 | 0.0 | 0 | 10 | 1006 | 1007 | 1 | 13.5 |
| 06/05/2021 21:08 | 48.5 | 0.0 | 0 | 10 | 1006 | 1007 | 1 | 12.6 |
| 06/05/2021 22:08 | 48.1 | 0.0 | 0 | 9 | 1007 | 1008 | 1 | 11.3 |
| 06/05/2021 23:08 | 47.8 | 0.0 | 0 | 9 | 1008 | 1009 | 1 | 10.0 |
| 07/05/2021 00:08 | 47.7 | 0.0 | 0 | 8 | 1009 | 1009 | 0 | 9.1 |
| 07/05/2021 01:08 | 47.8 | 0.0 | 0 | 8 | 1009 | 1010 | 1 | 8.3 |
| 07/05/2021 02:08 | 47.5 | 0.0 | 0 | 9 | 1010 | 1011 | 1 | 7.6 |
| 07/05/2021 03:08 | 47.1 | 0.0 | 0 | 8 | 1011 | 1011 | 0 | 7.0 |
| 07/05/2021 04:08 | 46.7 | 0.0 | 0 | 8 | 1011 | 1012 | 1 | 6.4 |
| 07/05/2021 05:08 | 46.4 | 0.0 | 0 | 8 | 1012 | 1012 | 0 | 5.9 |
| 07/05/2021 06:08 | 46.1 | 0.0 | 0 | 8 | 1012 | 1013 | 1 | 5.4 |
| 07/05/2021 07:08 | 45.5 | 0.0 | 0 | 8 | 1013 | 1014 | 1 | 5.1 |
| 07/05/2021 08:08 | 44.2 | 0.0 | 0 | 9 | 1014 | 1014 | 0 | 5.8 |
| 07/05/2021 09:08 | 43.8 | 0.0 | 0 | 9 | 1014 | 1015 | 1 | 6.9 |
| 07/05/2021 10:08 | 43.3 | 0.0 | 0 | 9 | 1015 | 1015 | 0 | 8.3 |
| 07/05/2021 11:08 | 42.4 | 0.0 | 0 | 10 | 1015 | 1015 | 0 | 9.8 |
| 07/05/2021 12:08 | 42.4 | 0.0 | 0 | 10 | 1015 | 1015 | 0 | 11.3 |
| 07/05/2021 13:08 | 41.8 | 0.0 | 0 | 10 | 1016 | 1015 | -1 | 12.4 |
| 07/05/2021 14:08 | 41.3 | 0.0 | 0 | 10 | 1016 | 1015 | -1 | 13.1 |
| 07/05/2021 15:08 | 40.8 | 0.0 | 0 | 10 | 1016 | 1014 | -2 | 13.6 |
| 07/05/2021 16:08 | 40.0 | 0.0 | 0 | 10 | 1016 | 1014 | -2 | 14.4 |
| 07/05/2021 17:08 | 39.5 | 0.0 | 0 | 10 | 1015 | 1014 | -1 | 15.0 |
| 07/05/2021 18:08 | 39.2 | 0.0 | 0 | 10 | 1015 | 1014 | -1 | 14.8 |
| 07/05/2021 19:08 | 39.0 | 0.0 | 0 | 9 | 1015 | 1014 | -1 | 14.3 |
| 07/05/2021 20:08 | 38.2 | 0.0 | 0 | 10 | 1014 | 1013 | -1 | 13.5 |
| 07/05/2021 21:08 | 38.2 | 0.0 | 0 | 9 | 1014 | 1013 | -1 | 12.6 |
| 07/05/2021 22:08 | 37.7 | 0.0 | 0 | 9 | 1014 | 1012 | -2 | 11.8 |
| 07/05/2021 23:08 | 36.8 | 0.0 | 0 | 9 | 1013 | 1011 | -2 | 11.1 |
| 08/05/2021 00:08 | 36.5 | 0.0 | 0 | 9 | 1012 | 1010 | -2 | 10.6 |
| 08/05/2021 01:08 | 36.4 | 0.0 | 0 | 9 | 1011 | 1009 | -2 | 10.3 |
| 08/05/2021 02:08 | 35.9 | 0.0 | 0 | 9 | 1009 | 1008 | -1 | 9.9 |
| 08/05/2021 03:08 | 37.8 | 0.0 | 0 | 9 | 1008 | 1007 | -1 | 9.7 |
| 08/05/2021 04:08 | 39.3 | 0.0 | 0 | 10 | 1006 | 1005 | -1 | 9.4 |
| 08/05/2021 05:08 | 41.4 | 0.0 | 0 | 9 | 1005 | 1004 | -1 | 9.3 |

| Date and Time | $CH_4$ % v/v | $O_2$ % v/v | $H_2S$ ppm/v | CO ppm/v | Borehole Pressure mbar | Atmospheric Pressure mbar | Differential Pressure mbar | Temperature °C |
|---|---|---|---|---|---|---|---|---|
| 08/05/2021 06:08 | 43.1 | 0.0 | 0 | 10 | 1004 | 1003 | -1 | 9.1 |
| 08/05/2021 07:08 | 44.5 | 0.0 | 0 | 10 | 1002 | 1002 | 0 | 9.1 |
| 08/05/2021 08:08 | 45.0 | 0.0 | 0 | 9 | 1001 | 1002 | 1 | 9.2 |
| 08/05/2021 09:08 | 45.7 | 0.0 | 0 | 10 | 1001 | 1002 | 1 | 9.3 |
| 08/05/2021 10:08 | 46.3 | 0.0 | 0 | 10 | 1001 | 1002 | 1 | 9.4 |
| 08/05/2021 11:08 | 46.5 | 0.0 | 0 | 10 | 1001 | 1001 | 0 | 9.8 |
| 08/05/2021 12:08 | 46.3 | 0.0 | 0 | 10 | 1001 | 1002 | 1 | 10.1 |
| 08/05/2021 13:08 | 46.6 | 0.0 | 0 | 11 | 1001 | 1002 | 1 | 10.6 |
| 08/05/2021 14:08 | 46.7 | 0.0 | 0 | 10 | 1001 | 1002 | 1 | 11.2 |
| 08/05/2021 15:08 | 46.6 | 0.0 | 0 | 10 | 1001 | 1001 | 0 | 11.6 |
| 08/05/2021 16:08 | 46.9 | 0.0 | 0 | 10 | 1001 | 1001 | 0 | 11.9 |
| 08/05/2021 17:08 | 47.7 | 0.0 | 0 | 10 | 1000 | 1001 | 1 | 12.3 |
| 08/05/2021 18:08 | 48.5 | 0.0 | 0 | 11 | 1000 | 1000 | 0 | 12.6 |
| 08/05/2021 19:08 | 48.5 | 0.0 | 0 | 10 | 1000 | 1000 | 0 | 12.8 |
| 08/05/2021 20:08 | 49.5 | 0.0 | 0 | 10 | 1000 | 1000 | 0 | 12.8 |
| 08/05/2021 21:08 | 49.5 | 0.0 | 0 | 10 | 999 | 1000 | 1 | 12.6 |
| 08/05/2021 22:08 | 50.2 | 0.0 | 0 | 10 | 999 | 999 | 0 | 12.4 |
| 08/05/2021 23:08 | 50.1 | 0.0 | 0 | 10 | 998 | 998 | 0 | 12.1 |
| 09/05/2021 00:08 | 51.4 | 0.0 | 0 | 10 | 998 | 997 | -1 | 11.6 |
| 09/05/2021 01:08 | 51.8 | 0.0 | 0 | 10 | 997 | 997 | 0 | 11.2 |
| 09/05/2021 02:08 | 51.9 | 0.0 | 0 | 10 | 996 | 996 | 0 | 10.9 |
| 09/05/2021 03:08 | 52.2 | 0.0 | 0 | 10 | 995 | 996 | 1 | 10.8 |
| 09/05/2021 04:08 | 52.9 | 0.0 | 0 | 10 | 995 | 995 | 0 | 10.5 |
| 09/05/2021 05:08 | 52.9 | 0.0 | 0 | 10 | 994 | 995 | 1 | 10.3 |
| 09/05/2021 06:08 | 52.6 | 0.0 | 0 | 9 | 994 | 995 | 1 | 10.1 |
| 09/05/2021 07:08 | 53.7 | 0.0 | 0 | 10 | 994 | 995 | 1 | 10.1 |
| 09/05/2021 08:08 | 53.0 | 0.0 | 0 | 10 | 994 | 995 | 1 | 10.3 |
| 09/05/2021 09:08 | 53.0 | 0.0 | 0 | 11 | 994 | 994 | 0 | 10.6 |
| 09/05/2021 10:08 | 53.2 | 0.0 | 0 | 12 | 993 | 995 | 2 | 11.6 |
| 09/05/2021 11:08 | 53.2 | 0.0 | 0 | 11 | 994 | 995 | 1 | 12.9 |
| 09/05/2021 12:08 | 53.7 | 0.0 | 0 | 11 | 994 | 994 | 0 | 13.6 |
| 09/05/2021 13:08 | 53.0 | 0.0 | 0 | 11 | 994 | 994 | 0 | 14.4 |
| 09/05/2021 14:08 | 53.6 | 0.0 | 0 | 11 | 993 | 994 | 1 | 14.9 |
| 09/05/2021 15:08 | 53.2 | 0.0 | 0 | 12 | 994 | 994 | 0 | 15.6 |
| 09/05/2021 16:08 | 53.5 | 0.0 | 0 | 11 | 994 | 993 | -1 | 16.3 |
| 09/05/2021 17:08 | 53.5 | 0.0 | 0 | 11 | 993 | 993 | 0 | 16.3 |
| 09/05/2021 18:08 | 53.6 | 0.0 | 0 | 11 | 991 | 993 | 2 | 16.3 |
| 09/05/2021 19:08 | 53.8 | 0.0 | 0 | 10 | 992 | 993 | 1 | 16.1 |
| 09/05/2021 20:08 | 54.3 | 0.0 | 0 | 10 | 993 | 993 | 0 | 15.5 |
| 09/05/2021 21:08 | 54.5 | 0.0 | 0 | 10 | 993 | 993 | 0 | 14.8 |
| 09/05/2021 22:08 | 54.4 | 0.0 | 0 | 10 | 992 | 993 | 1 | 14.1 |
| 09/05/2021 23:08 | 54.6 | 0.0 | 0 | 10 | 992 | 994 | 2 | 13.6 |
| 10/05/2021 00:08 | 54.7 | 0.0 | 0 | 10 | 992 | 994 | 2 | 13.0 |
| 10/05/2021 01:08 | 55.0 | 0.0 | 0 | 9 | 993 | 994 | 1 | 12.4 |
| 10/05/2021 02:08 | 55.0 | 0.0 | 0 | 9 | 992 | 994 | 2 | 11.9 |
| 10/05/2021 03:08 | 54.8 | 0.0 | 0 | 9 | 993 | 994 | 1 | 11.6 |
| 10/05/2021 04:08 | 54.9 | 0.0 | 0 | 9 | 993 | 995 | 2 | 11.3 |
| 10/05/2021 05:08 | 54.8 | 0.0 | 0 | 9 | 993 | 995 | 2 | 11.0 |
| 10/05/2021 06:08 | 54.7 | 0.0 | 0 | 10 | 994 | 995 | 1 | 10.9 |
| 10/05/2021 07:08 | 54.9 | 0.0 | 0 | 9 | 994 | 996 | 2 | 10.8 |
| 10/05/2021 08:08 | 54.9 | 0.0 | 0 | 9 | 994 | 996 | 2 | 10.9 |
| 10/05/2021 09:08 | 54.8 | 0.0 | 0 | 10 | 995 | 997 | 2 | 11.2 |
| 10/05/2021 10:08 | 54.5 | 0.0 | 0 | 9 | 995 | 998 | 3 | 11.4 |
| 10/05/2021 11:08 | 54.8 | 0.0 | 0 | 10 | 997 | 999 | 2 | 11.9 |
| 10/05/2021 12:08 | 54.5 | 0.0 | 0 | 10 | 998 | 999 | 1 | 12.6 |
| 10/05/2021 13:08 | 53.9 | 0.0 | 0 | 10 | 999 | 1000 | 1 | 13.1 |
| 10/05/2021 14:08 | 54.0 | 0.0 | 0 | 10 | 999 | 1000 | 1 | 13.6 |
| 10/05/2021 15:08 | 53.7 | 0.0 | 0 | 10 | 1000 | 1001 | 1 | 14.3 |
| 10/05/2021 16:08 | 52.9 | 0.0 | 0 | 11 | 1000 | 1001 | 1 | 15.2 |
| 10/05/2021 17:08 | 52.8 | 0.0 | 0 | 11 | 1000 | 1001 | 1 | 15.9 |
| 10/05/2021 18:08 | 52.5 | 0.0 | 0 | 10 | 1001 | 1001 | 0 | 16.3 |
| 10/05/2021 19:08 | 52.6 | 0.0 | 0 | 10 | 1001 | 1002 | 1 | 16.3 |
| 10/05/2021 20:08 | 51.0 | 0.0 | 0 | 10 | 1002 | 1003 | 1 | 15.8 |
| 10/05/2021 21:08 | 51.6 | 0.0 | 0 | 10 | 1002 | 1003 | 1 | 15.0 |
| 10/05/2021 22:08 | 51.2 | 0.0 | 0 | 10 | 1003 | 1003 | 0 | 13.9 |
| 10/05/2021 23:08 | 50.5 | 0.0 | 0 | 9 | 1003 | 1004 | 1 | 13.0 |
| 11/05/2021 00:08 | 50.1 | 0.0 | 0 | 9 | 1003 | 1004 | 1 | 12.3 |
| 11/05/2021 01:08 | 50.3 | 0.0 | 0 | 9 | 1003 | 1003 | 0 | 11.6 |
| 11/05/2021 02:08 | 49.3 | 0.0 | 0 | 9 | 1003 | 1003 | 0 | 11.3 |
| 11/05/2021 03:08 | 49.5 | 0.0 | 0 | 9 | 1002 | 1003 | 1 | 10.9 |
| 11/05/2021 04:08 | 48.9 | 0.0 | 0 | 9 | 1002 | 1003 | 1 | 10.6 |
| 11/05/2021 05:08 | 49.2 | 0.0 | 0 | 9 | 1003 | 1004 | 1 | 10.1 |
| 11/05/2021 06:08 | 49.2 | 0.0 | 0 | 9 | 1003 | 1004 | 1 | 9.6 |
| 11/05/2021 07:08 | 49.1 | 0.0 | 0 | 9 | 1003 | 1004 | 1 | 9.4 |
| 11/05/2021 08:08 | 49.5 | 0.0 | 0 | 10 | 1003 | 1004 | 1 | 9.8 |
| 11/05/2021 09:08 | 49.4 | 0.0 | 0 | 10 | 1004 | 1004 | 0 | 10.6 |
| 11/05/2021 10:08 | 48.6 | 0.0 | 0 | 11 | 1004 | 1005 | 1 | 11.7 |
| 11/05/2021 11:08 | 49.2 | 0.0 | 0 | 10 | 1004 | 1005 | 1 | 12.8 |
| 11/05/2021 12:08 | 48.6 | 0.0 | 0 | 10 | 1005 | 1005 | 0 | 13.8 |
| 11/05/2021 13:08 | 48.6 | 0.0 | 0 | 10 | 1005 | 1005 | 0 | 14.2 |
| 11/05/2021 14:08 | 48.6 | 0.0 | 0 | 11 | 1005 | 1004 | -1 | 14.6 |
| 11/05/2021 15:08 | 48.1 | 0.0 | 0 | 11 | 1005 | 1004 | -1 | 15.4 |
| 11/05/2021 16:08 | 48.8 | 0.0 | 0 | 11 | 1005 | 1004 | -1 | 16.3 |
| 11/05/2021 17:08 | 50.0 | 0.0 | 0 | 10 | 1004 | 1004 | 0 | 16.6 |
| 11/05/2021 18:08 | 50.2 | 0.0 | 0 | 11 | 1004 | 1004 | 0 | 15.9 |
| 11/05/2021 19:08 | 50.2 | 0.0 | 0 | 10 | 1004 | 1005 | 1 | 15.3 |
| 11/05/2021 20:08 | 50.7 | 0.0 | 0 | 10 | 1005 | 1005 | 0 | 14.6 |
| 11/05/2021 21:08 | 50.9 | 0.0 | 0 | 10 | 1005 | 1006 | 1 | 13.9 |
| 11/05/2021 22:08 | 50.8 | 0.0 | 0 | 10 | 1006 | 1006 | 0 | 13.3 |
| 11/05/2021 23:08 | 51.0 | 0.0 | 0 | 10 | 1005 | 1006 | 1 | 12.7 |
| 12/05/2021 00:08 | 50.9 | 0.0 | 0 | 9 | 1006 | 1006 | 0 | 12.3 |
| 12/05/2021 01:08 | 51.6 | 0.0 | 0 | 9 | 1006 | 1006 | 0 | 11.9 |
| 12/05/2021 02:08 | 51.4 | 0.0 | 0 | 10 | 1006 | 1006 | 0 | 11.5 |
| 12/05/2021 03:08 | 52.3 | 0.0 | 0 | 9 | 1006 | 1006 | 0 | 11.1 |
| 12/05/2021 04:08 | 52.8 | 0.0 | 0 | 9 | 1006 | 1006 | 0 | 10.7 |
| 12/05/2021 05:08 | 53.4 | 0.0 | 0 | 9 | 1006 | 1006 | 0 | 10.3 |
| 12/05/2021 06:08 | 53.9 | 0.0 | 0 | 9 | 1006 | 1007 | 1 | 9.9 |
| 12/05/2021 07:08 | 53.3 | 0.0 | 0 | 10 | 1006 | 1007 | 1 | 9.8 |
| 12/05/2021 08:08 | 53.5 | 0.0 | 0 | 10 | 1006 | 1007 | 1 | 10.3 |
| 12/05/2021 09:08 | 53.3 | 0.0 | 0 | 10 | 1006 | 1007 | 1 | 11.3 |
| 12/05/2021 10:08 | 53.6 | 0.0 | 0 | 10 | 1007 | 1006 | -1 | 12.3 |
| 12/05/2021 11:08 | 53.2 | 0.0 | 0 | 10 | 1006 | 1006 | 0 | 12.6 |
| 12/05/2021 12:08 | 53.8 | 0.0 | 0 | 10 | 1006 | 1006 | 0 | 13.5 |
| 12/05/2021 13:08 | 53.4 | 0.0 | 0 | 11 | 1007 | 1006 | -1 | 14.6 |
| 12/05/2021 14:08 | 53.3 | 0.0 | 0 | 11 | 1006 | 1005 | -1 | 15.7 |
| 12/05/2021 15:08 | 53.9 | 0.0 | 0 | 11 | 1006 | 1005 | -1 | 16.5 |
| 12/05/2021 16:08 | 53.5 | 0.0 | 0 | 11 | 1006 | 1005 | -1 | 17.0 |
| 12/05/2021 17:08 | 54.3 | 0.0 | 0 | 10 | 1006 | 1004 | -2 | 17.1 |
| 12/05/2021 18:08 | 55.1 | 0.0 | 0 | 10 | 1005 | 1004 | -1 | 16.5 |
| 12/05/2021 19:08 | 55.5 | 0.0 | 0 | 10 | 1004 | 1004 | 0 | 15.8 |
| 12/05/2021 20:08 | 55.3 | 0.0 | 0 | 10 | 1004 | 1004 | 0 | 15.1 |
| 12/05/2021 21:08 | 55.4 | 0.0 | 0 | 10 | 1004 | 1004 | 0 | 14.5 |
| 12/05/2021 22:08 | 56.3 | 0.0 | 0 | 10 | 1003 | 1003 | 0 | 13.9 |
| 12/05/2021 23:08 | 55.9 | 0.0 | 0 | 10 | 1003 | 1002 | -1 | 13.4 |

| Date and Time | $CH_4$ % v/v | $O_2$ % v/v | $H_2S$ ppm/v | CO ppm/v | Borehole Pressure mbar | Atmospheric Pressure mbar | Differential Pressure mbar | Temperature °C |
|---|---|---|---|---|---|---|---|---|
| 13/05/2021 00:08 | 56.5 | 0.0 | 0 | 10 | 1002 | 1002 | 0 | 13.1 |
| 13/05/2021 01:08 | 56.3 | 0.0 | 0 | 10 | 1002 | 1001 | -1 | 12.8 |
| 13/05/2021 02:08 | 56.8 | 0.0 | 0 | 10 | 1001 | 1001 | 0 | 12.5 |
| 13/05/2021 03:08 | 56.6 | 0.0 | 0 | 10 | 1001 | 1001 | 0 | 12.3 |
| 13/05/2021 04:08 | 57.2 | 0.0 | 0 | 10 | 1001 | 1001 | 0 | 12.0 |
| 13/05/2021 05:08 | 57.0 | 0.0 | 0 | 10 | 1001 | 1001 | 0 | 11.6 |
| 13/05/2021 06:08 | 57.4 | 0.0 | 0 | 10 | 1000 | 1001 | 1 | 11.3 |
| 13/05/2021 07:08 | 57.1 | 0.0 | 0 | 9 | 1000 | 1001 | 1 | 11.0 |
| 13/05/2021 08:08 | 57.8 | 0.0 | 0 | 10 | 1000 | 1002 | 2 | 10.8 |
| 13/05/2021 09:08 | 58.1 | 0.0 | 0 | 10 | 1001 | 1002 | 1 | 10.8 |
| 13/05/2021 10:08 | 57.9 | 0.0 | 0 | 9 | 1001 | 1002 | 1 | 10.9 |
| 13/05/2021 11:08 | 57.5 | 0.0 | 0 | 10 | 1001 | 1001 | 0 | 11.3 |
| 13/05/2021 12:08 | 57.6 | 0.0 | 0 | 10 | 1001 | 1002 | 1 | 11.6 |
| 13/05/2021 13:08 | 57.3 | 0.0 | 0 | 10 | 1001 | 1002 | 1 | 12.2 |
| 13/05/2021 14:08 | 57.5 | 0.0 | 0 | 10 | 1001 | 1002 | 1 | 13.0 |
| 13/05/2021 15:08 | 57.1 | 0.0 | 0 | 10 | 1002 | 1002 | 0 | 13.6 |
| 13/05/2021 16:08 | 57.0 | 0.0 | 0 | 10 | 1002 | 1002 | 0 | 13.6 |
| 13/05/2021 17:08 | 56.7 | 0.0 | 0 | 10 | 1002 | 1002 | 0 | 13.4 |
| 13/05/2021 18:08 | 56.0 | 0.0 | 0 | 9 | 1002 | 1002 | 0 | 13.3 |
| 13/05/2021 19:08 | 56.8 | 0.0 | 0 | 9 | 1002 | 1003 | 1 | 12.8 |
| 13/05/2021 20:08 | 56.5 | 0.0 | 0 | 10 | 1002 | 1003 | 1 | 12.3 |
| 13/05/2021 21:08 | 56.3 | 0.0 | 0 | 9 | 1003 | 1003 | 0 | 11.8 |
| 13/05/2021 22:08 | 56.6 | 0.0 | 0 | 9 | 1003 | 1004 | 1 | 11.4 |
| 13/05/2021 23:08 | 56.5 | 0.0 | 0 | 9 | 1004 | 1004 | 0 | 11.1 |
| 14/05/2021 00:08 | 56.5 | 0.0 | 0 | 9 | 1003 | 1004 | 1 | 10.8 |
| 14/05/2021 01:08 | 56.3 | 0.0 | 0 | 9 | 1004 | 1004 | 0 | 10.5 |
| 14/05/2021 02:08 | 55.6 | 0.0 | 0 | 9 | 1004 | 1004 | 0 | 10.3 |
| 14/05/2021 03:08 | 55.6 | 0.0 | 0 | 9 | 1004 | 1004 | 0 | 10.1 |
| 14/05/2021 04:08 | 54.8 | 0.0 | 0 | 9 | 1004 | 1004 | 0 | 10.0 |
| 14/05/2021 05:08 | 54.8 | 0.0 | 0 | 9 | 1004 | 1005 | 1 | 9.9 |
| 14/05/2021 06:08 | 54.8 | 0.0 | 0 | 8 | 1004 | 1006 | 2 | 9.8 |
| 14/05/2021 07:08 | 54.4 | 0.0 | 0 | 9 | 1005 | 1007 | 2 | 9.7 |
| 14/05/2021 08:08 | 54.4 | 0.0 | 0 | 9 | 1006 | 1007 | 1 | 9.9 |
| 14/05/2021 09:08 | 54.6 | 0.0 | 0 | 9 | 1007 | 1007 | 0 | 10.1 |
| 14/05/2021 10:08 | 54.4 | 0.0 | 0 | 9 | 1007 | 1008 | 1 | 10.4 |
| 14/05/2021 11:08 | 53.4 | 0.0 | 0 | 10 | 1008 | 1008 | 0 | 10.8 |
| 14/05/2021 12:08 | 53.2 | 0.0 | 0 | 10 | 1007 | 1008 | 1 | 11.4 |
| 14/05/2021 13:08 | 52.8 | 0.0 | 0 | 9 | 1008 | 1007 | -1 | 12.1 |
| 14/05/2021 14:08 | 52.1 | 0.0 | 0 | 9 | 1008 | 1007 | -1 | 12.6 |
| 14/05/2021 15:08 | 51.1 | 0.0 | 0 | 10 | 1007 | 1007 | 0 | 13.1 |
| 14/05/2021 16:08 | 50.7 | 0.0 | 0 | 9 | 1008 | 1007 | -1 | 13.4 |
| 14/05/2021 17:08 | 50.7 | 0.0 | 0 | 10 | 1007 | 1006 | -1 | 13.4 |
| 14/05/2021 18:08 | 49.5 | 0.0 | 0 | 9 | 1006 | 1006 | 0 | 13.2 |
| 14/05/2021 19:08 | 49.0 | 0.0 | 0 | 9 | 1006 | 1005 | -1 | 12.9 |
| 14/05/2021 20:08 | 49.2 | 0.0 | 0 | 10 | 1006 | 1005 | -1 | 12.6 |
| 14/05/2021 21:08 | 48.8 | 0.0 | 0 | 9 | 1005 | 1005 | 0 | 12.2 |
| 14/05/2021 22:08 | 49.7 | 0.0 | 0 | 9 | 1005 | 1004 | -1 | 11.6 |
| 14/05/2021 23:08 | 50.2 | 0.0 | 0 | 10 | 1004 | 1004 | 0 | 11.2 |
| 15/05/2021 00:08 | 51.9 | 0.0 | 0 | 9 | 1003 | 1003 | 0 | 10.9 |
| 15/05/2021 01:08 | 53.2 | 0.0 | 0 | 9 | 1003 | 1002 | -1 | 10.8 |
| 15/05/2021 02:08 | 54.5 | 0.0 | 0 | 10 | 1001 | 1001 | 0 | 10.6 |
| 15/05/2021 03:08 | 55.4 | 0.0 | 0 | 9 | 1000 | 1000 | 0 | 10.5 |
| 15/05/2021 04:08 | 56.0 | 0.0 | 0 | 9 | 999 | 999 | 0 | 10.3 |
| 15/05/2021 05:08 | 56.7 | 0.0 | 0 | 10 | 998 | 998 | 0 | 10.1 |
| 15/05/2021 06:08 | 57.2 | 0.0 | 0 | 9 | 997 | 998 | 1 | 9.9 |
| 15/05/2021 07:08 | 57.5 | 0.0 | 0 | 9 | 997 | 997 | 0 | 9.8 |
| 15/05/2021 08:08 | 57.0 | 0.0 | 0 | 9 | 996 | 997 | 1 | 9.6 |
| 15/05/2021 09:08 | 57.5 | 0.0 | 0 | 9 | 995 | 996 | 1 | 9.6 |
| 15/05/2021 10:08 | 57.9 | 0.0 | 0 | 10 | 995 | 997 | 2 | 9.6 |
| 15/05/2021 11:08 | 57.7 | 0.0 | 0 | 9 | 995 | 997 | 2 | 9.9 |
| 15/05/2021 12:08 | 57.6 | 0.0 | 0 | 10 | 995 | 997 | 2 | 10.4 |
| 15/05/2021 13:08 | 58.3 | 0.0 | 0 | 10 | 995 | 997 | 2 | 10.9 |
| 15/05/2021 14:08 | 57.7 | 0.0 | 0 | 10 | 996 | 997 | 1 | 11.8 |
| 15/05/2021 15:08 | 58.0 | 0.0 | 0 | 10 | 997 | 997 | 0 | 12.6 |
| 15/05/2021 16:08 | 57.9 | 0.0 | 0 | 10 | 997 | 997 | 0 | 12.7 |
| 15/05/2021 17:08 | 57.6 | 0.0 | 0 | 10 | 996 | 997 | 1 | 13.1 |
| 15/05/2021 18:08 | 57.6 | 0.0 | 0 | 10 | 996 | 997 | 1 | 13.6 |
| 15/05/2021 19:08 | 57.7 | 0.0 | 0 | 9 | 996 | 997 | 1 | 13.6 |
| 15/05/2021 20:08 | 57.8 | 0.0 | 0 | 10 | 996 | 998 | 2 | 13.3 |
| 15/05/2021 21:08 | 58.5 | 0.0 | 0 | 9 | 997 | 998 | 1 | 12.8 |
| 15/05/2021 22:08 | 58.4 | 0.0 | 0 | 9 | 997 | 998 | 1 | 12.1 |
| 15/05/2021 23:08 | 58.1 | 0.0 | 0 | 9 | 997 | 998 | 1 | 11.6 |
| 16/05/2021 00:08 | 58.4 | 0.0 | 0 | 9 | 997 | 997 | 0 | 11.3 |
| 16/05/2021 01:08 | 58.8 | 0.0 | 0 | 9 | 997 | 997 | 0 | 10.9 |
| 16/05/2021 02:08 | 59.1 | 0.0 | 0 | 9 | 996 | 997 | 1 | 10.6 |
| 16/05/2021 03:08 | 59.1 | 0.0 | 0 | 9 | 996 | 997 | 1 | 10.3 |
| 16/05/2021 04:08 | 59.1 | 0.0 | 0 | 9 | 996 | 996 | 0 | 10.0 |
| 16/05/2021 05:08 | 59.4 | 0.0 | 0 | 9 | 995 | 996 | 1 | 9.8 |
| 16/05/2021 06:08 | 59.0 | 0.0 | 0 | 9 | 996 | 997 | 1 | 9.6 |
| 16/05/2021 07:08 | 59.3 | 0.0 | 0 | 9 | 995 | 996 | 1 | 9.4 |
| 16/05/2021 08:08 | 59.4 | 0.0 | 0 | 9 | 996 | 996 | 0 | 9.6 |
| 16/05/2021 09:08 | 59.4 | 0.0 | 0 | 9 | 995 | 996 | 1 | 9.7 |
| 16/05/2021 10:08 | 59.7 | 0.0 | 0 | 9 | 995 | 996 | 1 | 9.8 |
| 16/05/2021 11:08 | 59.9 | 0.0 | 0 | 10 | 995 | 996 | 1 | 10.3 |
| 16/05/2021 12:08 | 58.9 | 0.0 | 0 | 9 | 995 | 995 | 0 | 11.1 |
| 16/05/2021 13:08 | 58.7 | 0.0 | 0 | 9 | 994 | 995 | 1 | 11.6 |
| 16/05/2021 14:08 | 58.6 | 0.0 | 0 | 9 | 994 | 994 | 0 | 12.1 |
| 16/05/2021 15:08 | 58.7 | 0.0 | 0 | 9 | 993 | 994 | 1 | 12.2 |
| 16/05/2021 16:08 | 58.9 | 0.0 | 0 | 10 | 993 | 993 | 0 | 12.3 |
| 16/05/2021 17:08 | 58.6 | 0.0 | 0 | 9 | 992 | 993 | 1 | 12.4 |
| 16/05/2021 18:08 | 58.9 | 0.0 | 0 | 9 | 991 | 992 | 1 | 12.2 |
| 16/05/2021 19:08 | 59.2 | 0.0 | 0 | 9 | 991 | 993 | 2 | 11.8 |
| 16/05/2021 20:08 | 59.3 | 0.0 | 0 | 9 | 991 | 993 | 2 | 11.5 |
| 16/05/2021 21:08 | 59.0 | 0.0 | 0 | 9 | 992 | 994 | 2 | 11.3 |
| 16/05/2021 22:08 | 59.4 | 0.0 | 0 | 9 | 993 | 995 | 2 | 11.1 |
| 16/05/2021 23:08 | 59.9 | 0.0 | 0 | 9 | 994 | 996 | 2 | 10.8 |
| 17/05/2021 00:08 | 59.7 | 0.0 | 0 | 8 | 995 | 996 | 1 | 10.6 |
| 17/05/2021 01:08 | 59.5 | 0.0 | 0 | 9 | 995 | 997 | 2 | 10.3 |
| 17/05/2021 02:08 | 60.0 | 0.0 | 0 | 9 | 996 | 997 | 1 | 10.1 |
| 17/05/2021 03:08 | 59.8 | 0.0 | 0 | 9 | 996 | 998 | 2 | 9.9 |
| 17/05/2021 04:08 | 59.6 | 0.0 | 0 | 8 | 997 | 999 | 2 | 9.8 |
| 17/05/2021 05:08 | 59.9 | 0.0 | 0 | 8 | 998 | 1000 | 2 | 9.5 |
| 17/05/2021 06:08 | 59.9 | 0.0 | 0 | 8 | 999 | 1001 | 2 | 9.4 |
| 17/05/2021 07:08 | 59.7 | 0.0 | 0 | 8 | 1000 | 1002 | 2 | 9.3 |
| 17/05/2021 08:08 | 59.7 | 0.0 | 0 | 8 | 1001 | 1003 | 2 | 9.4 |
| 17/05/2021 09:08 | 59.4 | 0.0 | 0 | 9 | 1002 | 1003 | 1 | 9.9 |
| 17/05/2021 10:08 | 58.9 | 0.0 | 0 | 9 | 1003 | 1004 | 1 | 10.5 |
| 17/05/2021 11:08 | 58.0 | 0.0 | 0 | 9 | 1003 | 1004 | 1 | 11.3 |
| 17/05/2021 12:08 | 58.0 | 0.0 | 0 | 8 | 1004 | 1004 | 0 | 12.0 |
| 17/05/2021 13:08 | 57.5 | 0.0 | 0 | 9 | 1004 | 1004 | 0 | 12.2 |
| 17/05/2021 14:08 | 56.6 | 0.0 | 0 | 9 | 1004 | 1004 | 0 | 12.4 |
| 17/05/2021 15:08 | 55.8 | 0.0 | 0 | 10 | 1004 | 1005 | 1 | 13.1 |
| 17/05/2021 16:08 | 55.0 | 0.0 | 0 | 10 | 1005 | 1006 | 1 | 14.2 |
| 17/05/2021 17:08 | 55.3 | 0.0 | 0 | 9 | 1006 | 1006 | 0 | 14.6 |

| Date and Time | $CH_4$ % v/v | $O_2$ % v/v | $H_2S$ ppm/v | CO ppm/v | Borehole Pressure mbar | Atmospheric Pressure mbar | Differential Pressure mbar | Temperature °C |
|---|---|---|---|---|---|---|---|---|
| 17/05/2021 18:08 | 54.7 | 0.0 | 0 | 10 | 1006 | 1006 | 0 | 14.4 |
| 17/05/2021 19:08 | 54.6 | 0.0 | 0 | 10 | 1006 | 1007 | 1 | 14.4 |
| 17/05/2021 20:08 | 53.9 | 0.0 | 0 | 9 | 1007 | 1007 | 0 | 14.4 |
| 17/05/2021 21:08 | 53.7 | 0.0 | 0 | 9 | 1008 | 1008 | 0 | 13.9 |
| 17/05/2021 22:08 | 53.3 | 0.0 | 0 | 9 | 1009 | 1009 | 0 | 13.1 |
| 17/05/2021 23:08 | 53.1 | 0.0 | 0 | 9 | 1009 | 1009 | 0 | 12.4 |
| 18/05/2021 00:08 | 52.8 | 0.0 | 0 | 9 | 1009 | 1009 | 0 | 11.9 |
| 18/05/2021 01:08 | 52.5 | 0.0 | 0 | 9 | 1009 | 1009 | 0 | 11.3 |
| 18/05/2021 02:08 | 51.8 | 0.0 | 0 | 8 | 1010 | 1010 | 0 | 10.6 |
| 18/05/2021 03:08 | 51.7 | 0.0 | 0 | 8 | 1010 | 1010 | 0 | 10.1 |
| 18/05/2021 04:08 | 51.2 | 0.0 | 0 | 8 | 1010 | 1010 | 0 | 9.5 |
| 18/05/2021 05:08 | 51.1 | 0.0 | 0 | 8 | 1010 | 1010 | 0 | 8.9 |
| 18/05/2021 06:08 | 51.1 | 0.0 | 0 | 8 | 1011 | 1011 | 0 | 8.5 |
| 18/05/2021 07:08 | 50.5 | 0.0 | 0 | 9 | 1011 | 1011 | 0 | 8.5 |
| 18/05/2021 08:08 | 49.7 | 0.0 | 0 | 9 | 1011 | 1011 | 0 | 9.3 |
| 18/05/2021 09:08 | 49.4 | 0.0 | 0 | 9 | 1012 | 1011 | -1 | 10.4 |
| 18/05/2021 10:08 | 48.6 | 0.0 | 0 | 9 | 1012 | 1011 | -1 | 11.1 |
| 18/05/2021 11:08 | 47.7 | 0.0 | 0 | 10 | 1012 | 1011 | -1 | 12.1 |
| 18/05/2021 12:08 | 47.1 | 0.0 | 0 | 9 | 1012 | 1011 | -1 | 13.1 |
| 18/05/2021 13:08 | 46.1 | 0.0 | 0 | 10 | 1012 | 1011 | -1 | 13.8 |
| 18/05/2021 14:08 | 45.6 | 0.0 | 0 | 10 | 1012 | 1011 | -1 | 14.7 |
| 18/05/2021 15:08 | 45.6 | 0.0 | 0 | 10 | 1013 | 1011 | -2 | 15.6 |
| 18/05/2021 16:08 | 44.8 | 0.0 | 0 | 10 | 1012 | 1012 | 0 | 16.4 |
| 18/05/2021 17:08 | 46.0 | 0.0 | 0 | 11 | 1013 | 1012 | -1 | 16.9 |
| 18/05/2021 18:08 | 46.6 | 0.0 | 0 | 10 | 1013 | 1012 | -1 | 16.4 |
| 18/05/2021 19:08 | 48.3 | 0.0 | 0 | 10 | 1013 | 1012 | -1 | 15.7 |
| 18/05/2021 20:08 | 49.5 | 0.0 | 0 | 10 | 1013 | 1012 | -1 | 15.0 |
| 18/05/2021 21:08 | 50.0 | 0.0 | 0 | 10 | 1013 | 1013 | 0 | 14.3 |
| 18/05/2021 22:08 | 50.7 | 0.0 | 0 | 9 | 1014 | 1012 | -2 | 13.5 |
| 18/05/2021 23:08 | 50.9 | 0.0 | 0 | 10 | 1013 | 1012 | -1 | 12.9 |
| 19/05/2021 00:08 | 51.6 | 0.0 | 0 | 9 | 1013 | 1012 | -1 | 12.4 |
| 19/05/2021 01:08 | 52.2 | 0.0 | 0 | 10 | 1013 | 1012 | -1 | 11.9 |
| 19/05/2021 02:08 | 53.5 | 0.0 | 0 | 10 | 1012 | 1011 | -1 | 11.7 |
| 19/05/2021 03:08 | 54.7 | 0.0 | 0 | 10 | 1012 | 1011 | -1 | 11.4 |
| 19/05/2021 04:08 | 55.3 | 0.0 | 0 | 9 | 1012 | 1012 | 0 | 11.1 |
| 19/05/2021 05:08 | 55.8 | 0.0 | 0 | 9 | 1013 | 1012 | -1 | 10.8 |
| 19/05/2021 06:08 | 56.1 | 0.0 | 0 | 10 | 1013 | 1013 | 0 | 10.4 |
| 19/05/2021 07:08 | 55.8 | 0.0 | 0 | 9 | 1014 | 1014 | 0 | 10.2 |

# Appendix E

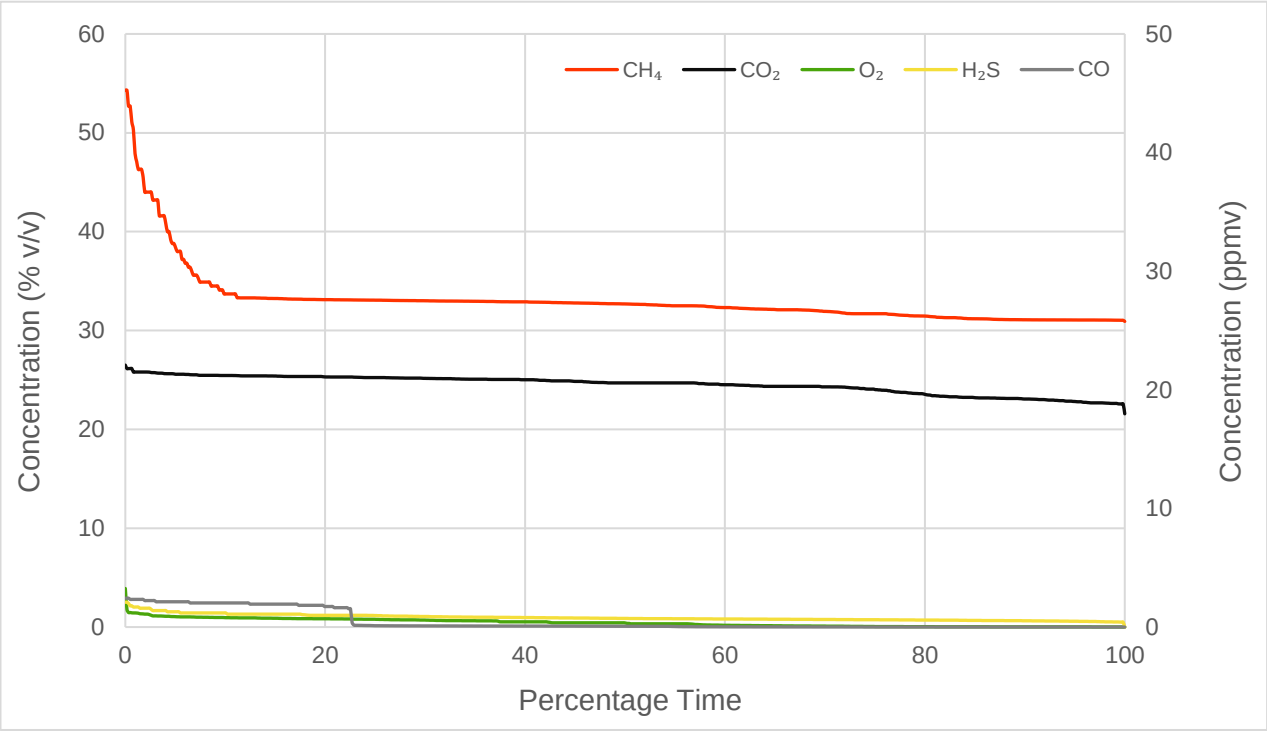
## Concentration Duration Curves

For: Delta-Simons Environmental Consultants Ltd.
Ref No.: GGS2440DP01
Date: 01/06/2021

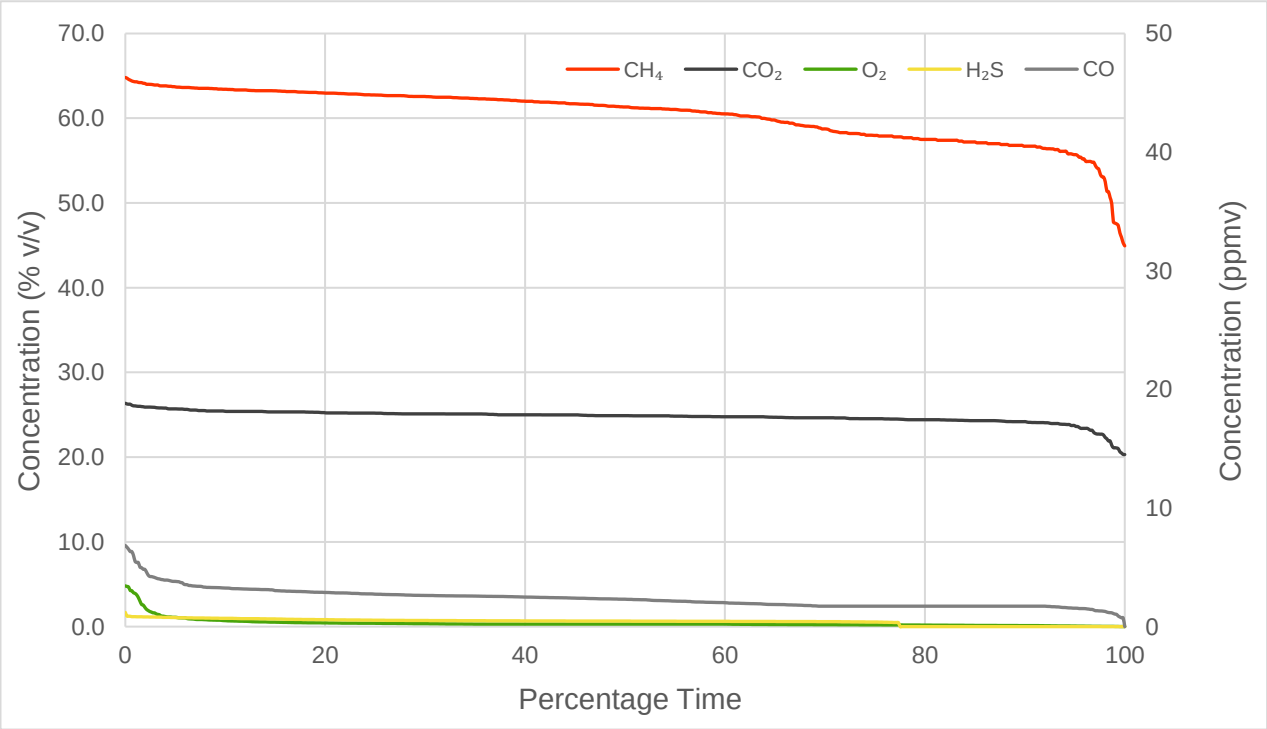
Experts in Continuous Monitoring

ggs
Experts in Continuous Monitoring

## Concentration Duration Graph, RO101

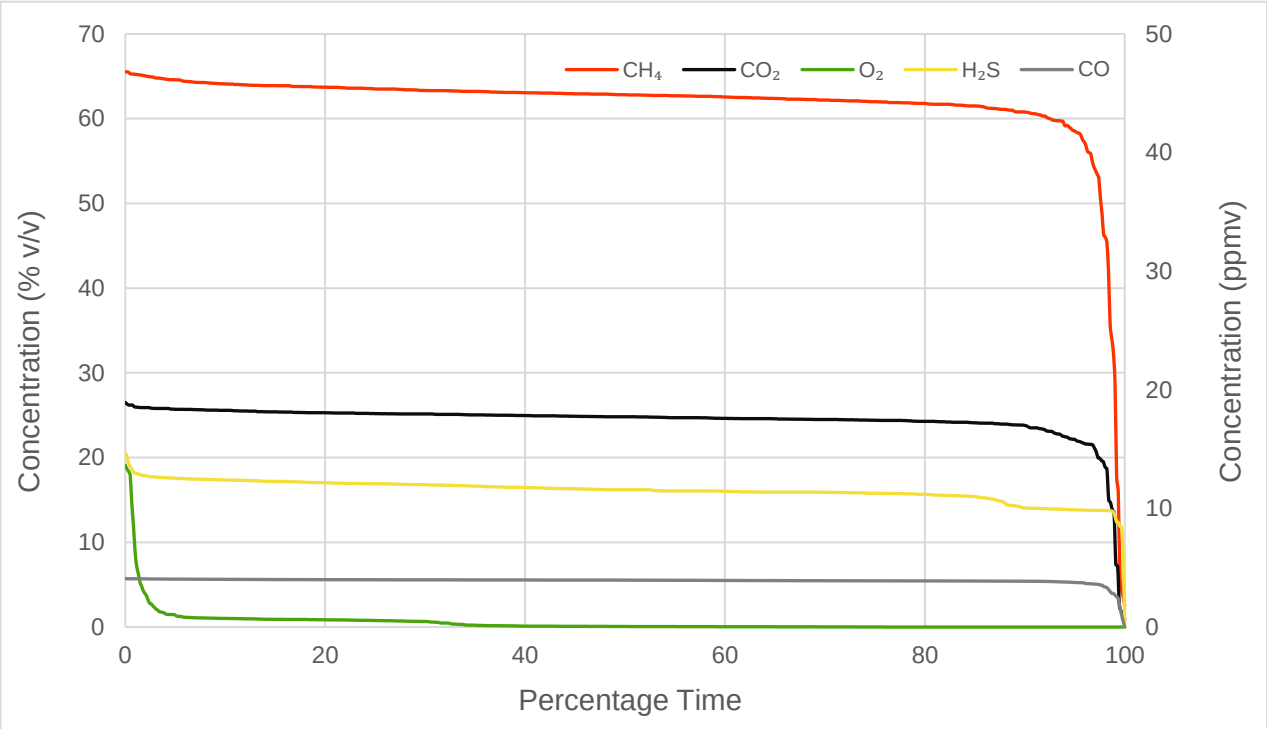



## Concentration Duration Graph, RO102



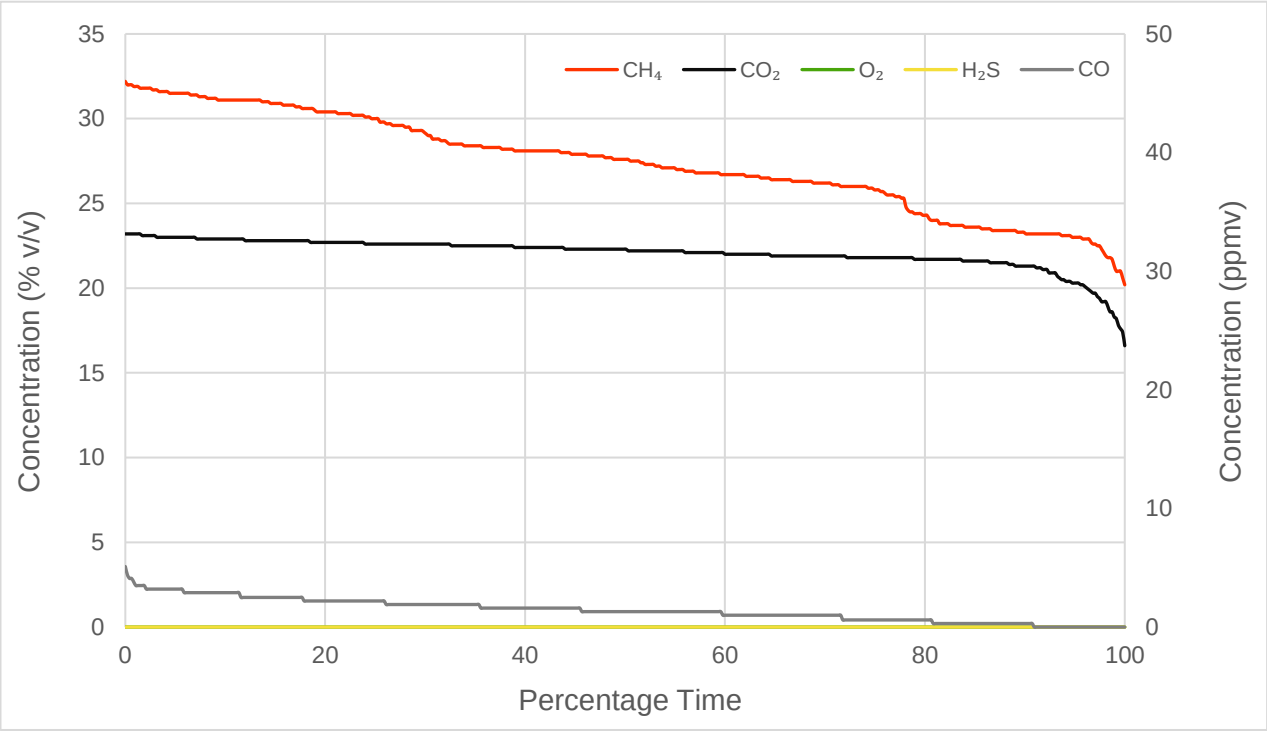
Experts in Continuous Monitoring

# Concentration Duration Graph, RO103

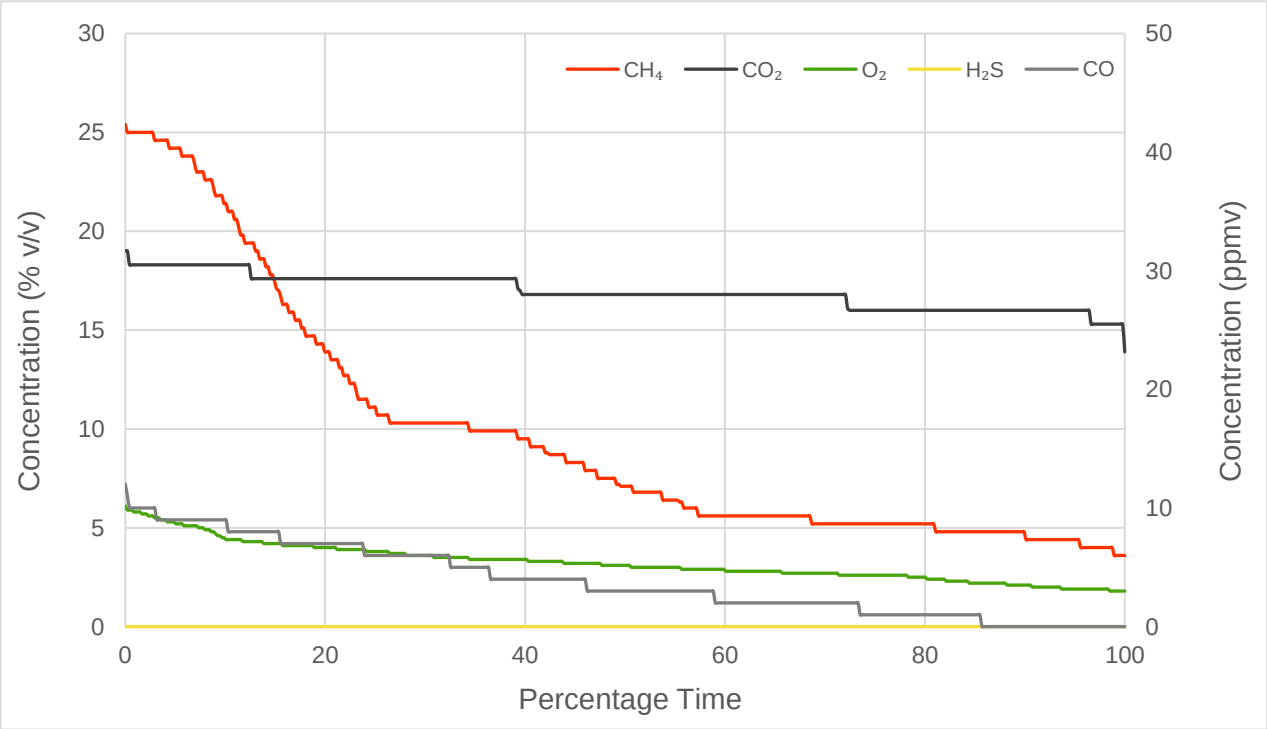


ggs
Experts in Continuous Monitoring

## Concentration Duration Graph, RO104

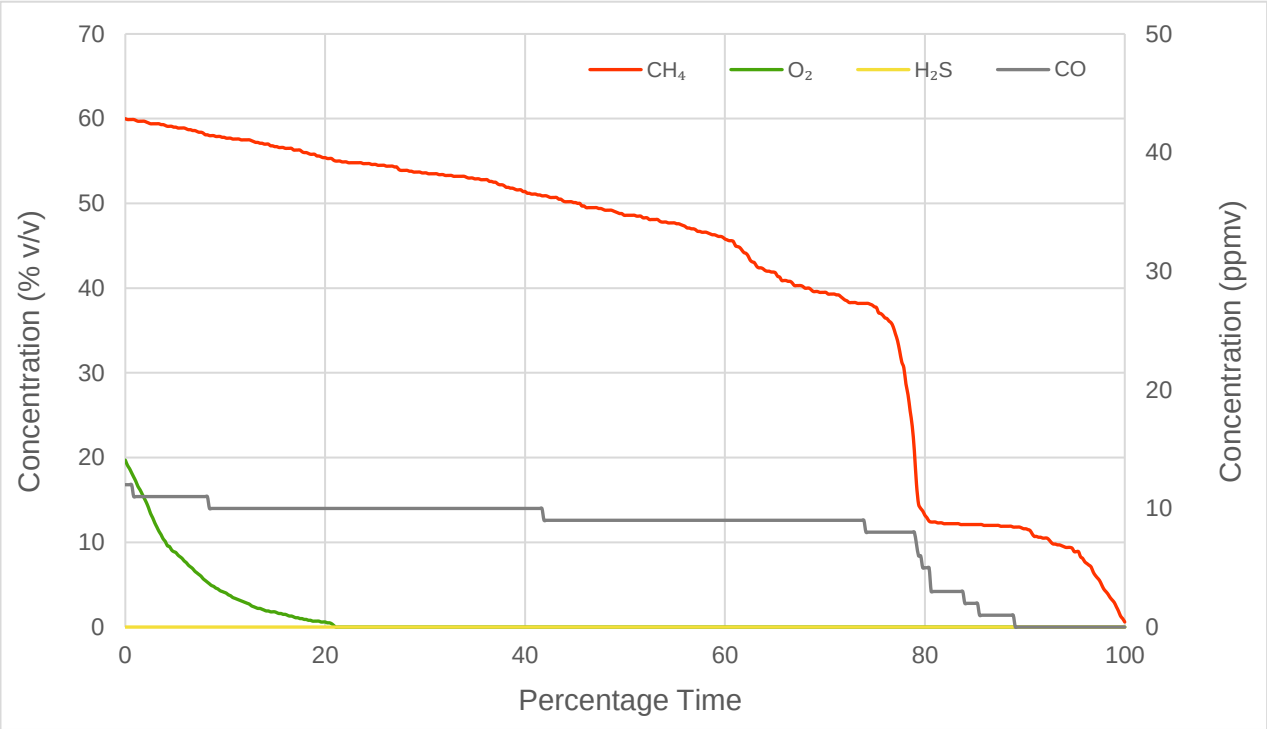



## Concentration Duration Graph, RO105



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# Concentration Duration Graph, RO106



# Appendix F

## Calibration Certificates



Experts in Continuous Monitoring

# CERTIFICATION OF CALIBRATION

4533

**Date Of Calibration:** 30-Oct-2020

**Certificate Number:** G503519_1/26779

Issued by: QED Environmental Systems Ltd.

**Customer:** **Ground Gas Solutions**

Ground-Gas Solutions Unit 10 Pythia House Hibbert Street, Bamford Buss Park
Stockport Greater Manchester SK4 1PL UNITED KINGDOM

**Description:** Gas Analyser

**Model:** GA5000

**Serial Number:** G503519

**UKAS Accredited results:**

| Methane ($CH_4$) | | |
|---|---|---|
| **Certified Gas (%)** | **Instrument Reading (%)** | **Uncertainty (%)** |
| 5.0 | 4.8 | 0.072 |
| 15.0 | 14.8 | 0.13 |
| 60.0 | 59.7 | 0.42 |

| Carbon Dioxide ($CO_2$) | | |
|---|---|---|
| **Certified Gas (%)** | **Instrument Reading (%)** | **Uncertainty (%)** |
| 5.0 | 4.8 | 0.074 |
| 15.0 | 14.6 | 0.13 |
| 39.9 | 39.8 | 0.29 |

| Oxygen ($O_2$) | | |
|---|---|---|
| **Certified Gas (%)** | **Instrument Reading (%)** | **Uncertainty (%)** |
| 21.4 | 21.5 | 0.25 |

All concentrations are molar.

$CH_4$, $CO_2$ readings recorded at : 31.6 °C ± 2.5 °C

O2 readings recorded at : 21.9 °C ± 2.5 °C

Barometric Pressure : 1001 mbar ± 4 mbar

Method of Test : The analyser is calibrated in a temperature controlled chamber using a series of reference gases, in compliance with procedure LP004.

Instrument has passed calibration as the measurement result is within the specification limit. The specification limit takes into account the measurement uncertainty.
The results relate only to the item calibrated

This certificate is issued in accordance with the laboratory accreditation requirements of the United Kingdom Accreditation Service. It provides traceability of measurement to the SI system of units and/or to units of measurement realised at the National Physical Laboratory or other recognised national metrology institutes. This certificate may not be reproduced other than in full, except with the prior written approval of the issuing laboratory.

Calibration Instance:111 IGC Instance:110



www.qedenv.com +44 (0) 333 800 0088 sales@qedenv.co.uk

QED Environmental Systems Ltd. Cyan Park - Unit 3, Jimmy Hill Way, Coventry, CV2 4QP, UNITED KINGDOM

Registered in England and Wales 1898734

# GA5000

$CH_4$ $CO_2$ $O_2$ CO $H_2S$

Geotech

## PORTABLE GAS ANALYSER | LANDFILL & CONTAMINATED LAND

The Geotech GA5000 is a landfill and contaminated land portable gas analyser, with available gas measurements of $CH_4$, $CO_2$, $O_2$, $H_2S$ and CO. It is easy to use and calibrate, benefiting from our market leading reliability and helping you to standardise monitoring routines, whilst supporting environmental legislation compliance.








## FEATURES

- Certified: ATEX, IECEx, CSA, MCERTS and UKAS calibration (ISO17025)
- Measures % $CH_4$, $CO_2$, and $O_2$
- Measures barometric pressure and relative pressure
- Peak and previous readings shown
- Choice of user settings and simple gas reading function
- Simultaneous display of all gases
- 3 year warranty
- $CH_4$ and $CO_2$ accuracy ± 0.5% after calibration
- Modular and upgradeable
- Memory: 2,000 IDs* and 4,000 readings (* with GAM software)
- Data logging and profiling function
- Up to 6 gases monitored

## BENEFITS

- Easy to use and calibrate
- Supports environmental legislation compliance
- Market leading reliability
- Standardises monitoring routines
- Easy transfer of data

## SECTOR

Landfill

## APPLICATIONS

- Landfill gas monitoring
- Waste to energy
- Site investigation



## OPTIONS (AVAILABLE AT PURCHASE OR LATER)

- Choice of additional gases including $H_2S$ to 10,000ppm, and $H_2$ compensated CO
- Borehole gas flow (l / h)
- Flow logging for improved borehole analysis
- GPS / field navigator
- Gas Analyser Manager software for data download
- ATEX certified anemometer

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**Geotech**
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geotechuk.com sales@geotech.co.uk +44 (0)1926 338111

# GA5000

## TECHNICAL SPECIFICATIONS

| | | | | |
|---|---|---|---|---|
| **POWER SUPPLY** | | | | |
| Battery type | Rechargeable nickel metal hydride battery pack (not user replaceable) | | | |
| Battery life | Typical use 8 hours from fully charged | | | |
| Battery charger | Separate intelligent battery charger powered from mains supply (100-240V) | | | |
| Charge time | Approximately 4 hours from complete discharge | | | |
| **GAS RANGES** | | | | |
| Gases measured | $CO_2$ and $CH_4$ | By dual wavelength infrared sensor with reference channel | | |
| | $O_2$ | By internal electrochemical sensor | | |
| | CO ($H_2$ compensated), $H_2S$, $NH_3$ and $H_2$ (optional) | By internal electrochemical sensor | | |
| | A full range of internal gas cells can be specified at the time of manufacture | | | |
| Standard gas cells | Cell | Range | Typical accuracy (range : accuracy) | Typical accuracy (range : accuracy) |
| | $CH_4$ | 0-100% | 0-70% : ±0.5% (vol) | 70-100% : ±1.5% (vol) |
| | $CO_2$ | 0-100% | 0-60% : ±0.5% (vol) | 60-100% : ±1.5% (vol) |
| | $O_2$ | 0-25% | 0-25% : ±1.0% (vol) | |
| Optional gas cells | Cell | Range | Typical accuracy | |
| | CO | 0-500ppm | ±2.0% FS | |
| | CO | 0-1,000ppm | ±2.0% FS | |
| | CO | 0-2,000ppm | ±2.0% FS | |
| | CO ($H_2$) + | 0-2,000ppm | ±1.0% FS | |
| | $H_2S$ | 0-50ppm | ±1.5% FS | |
| | $H_2S$ | 0-200ppm | ±2.0% FS | |
| | $H_2S$ | 0-500ppm | ±2.0% FS | |
| | $H_2S$ | 0-1,000ppm | ±2.0% FS | |
| | $H_2S$ | 0-5,000ppm | ±2.0% FS | |
| | $H_2S$ | 0-10,000ppm | ±5.0% FS | |
| | $NH_3$ | 0-1,000ppm | ±10.0% FS | |
| | $H_2$ | 0-1,000ppm | ±2.5% FS | |
| Typical accuracies | All typical accuracies quoted are after calibration | | | |
| *Hydrogen compensated carbon monoxide measurement | Hydrogen cross gas effect on carbon monoxide approximately 1%. Do not use where hyrdogen is in excess of 10,000ppm | | | |
| Response time, T90 | $CH_4$ | ≤10 seconds | | |
| | $CO_2$ | ≤10 seconds | | |
| | $O_2$ | ≤20 seconds | | |
| | CO | ≤30 seconds | | |
| | $H_2S$ | ≤30 seconds | | |
| | $NH_3$ | ≤90 seconds | | |
| | $H_2$ | ≤90 seconds | | |
| **PUMP** | | | | |
| Flow | 550 ml / min typically | | | |
| Flow fail point | -200 mbar vacuum- user settable | | | |
| Maximum vacuum restart | -375 mbar approximately with flow rate of approx 80ml / min | | | |

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# GA5000

## TECHNICAL SPECIFICATIONS CONTINUED

| | |
|---|---|
| **FACILITIES** | |
| Temperature measurement | -10°C to +75°C with optional probe |
| Temperature accuracy | ±0.5°C with optional probe |
| Flow from borehole | 0-20 l / hr internal measurement |
| Flow from borehole accuracy | ±0.3 l / hr |
| Alarm | User selectable alarm levels |
| Communications | Via USB lead or wireless Bluetooth* |
| Relative pressure measurement | ±500 mbar |
| Relative pressure accuracy | ±4 mbar typically (should be zeroed before reading) to ±15 mbar max |
| Barometric pressure measurement | 500 to 1500 mbar, ±5 mbar accuracy |
| GPS sensor | Location and positioning |
| Available memory | 2,000 IDs *, 4000 readings, 2,000 events * |
| **ENVIRONMENTAL CONDITIONS** | |
| Operating temperature range | -10°C to +50°C |
| Atmospheric pressure range | 700 to 1200 mbar |
| Relative humidity | 0-95% non condensing |
| Case seal | IP65 |
| **PHYSICAL** | |
| Weight | 1.6kg |
| Size | L 220mm, W 155mm, D 60mm |
| Case material | ABS / polypropylene with rubber over-moulding |
| Keys | Alpha-numeric keypad with “tactile” membrane |
| Display | Ultra-clear high resolution 4.3” full colour TFT |
| Connections | Colour coded gas inlet, outlet and pressure ports.<br>Waterproof USB port, anemometer and charger / temperature probe connections. |
| Gas sample filters | External user changeable 2.0µm ptfe water traps |
| **CERTIFICATION RATING** | |
| ATEX | II 2G Ex ib IIA T1 Gb (Ta =-10°C to +50°C) |
| MCERTS | MC130238 |
| ISO17025 | Calibration to UKAS certificate number 4533 |
| CSA | Ex ib IIA T1 (Ta=-10°C to +50°C) (Canada), AEx ib IIA T1 (Ta=-10°C to +50°C) (USA) |
| * Gas Analyser Manager software required. | |
| Important note: The information in this document is correct at the time of generation.<br>We do, however, reserve the right to change the specification without prior notice as a result of continuing development. | |

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# TDL-500
## PORTABLE LASER DIODE $CH_4$ ANALYSER







1ppm Sensitivity
ATEX Certified (Zone 1)
Leak Detection

## Laser detection applied to methane detection

Using laser spectroscopy technology, the TDL-500 is a high performance methane detector offering total selectivity to methane and sensitivity of 1ppm. The instrument offers ATEX certification to Zone 1 and makes it possible to detect methane leaks and determine their location with precision.

### Features

- Automatic self test at start up
- Wide backlit LCD screen
- Visual and audible alarm indicators
- Choice of measurement modes
- Total selectivity to methane
- 8 hours constant use at 20°C
- Supplied with carry case, sampling rod and filters
- GPS available to record leak position, set up routes, and record readings
- Stable and repeatable

### Benefits

- Low maintenance - reduced total ownership cost
- High accuracy
- ATEX certified (Zone 1) - safe use in explosive atmosphere
- Multiple measurement modes - simultaneous display
- Fast response times - reduced monitoring
- No flame, no hydrogen cylinder, no shipping of cylinders, no cleaning of FIDs
- Identifies exact leak location, not line of sight




### Applications

- Natural gas networks
- Landfill surface emissions
- Momentary leaks of methane

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Visit our website at www.geotech.co.uk

# TDL-500

With high selectivity and a high sensitivity to methane (ppm scale) the TDL-500 offers exceptional performance from a portable analyser and is a truly efficient tool for gas professionals

## Technical Specifications

| TDL-500 | | |
|---|---|---|
| **POWER SUPPLY** | | |
| Battery Type | Either with rechargeable battery pack: 3 x 1.2 V - 4 A/h NiCd in accordance with ATEX directive<br>OR with Alkaline type D batteries: 3 x 1.5 V alkaline cells in accordance with ATEX directive | |
| Battery Life | Typical use:<br>- 8 hours at 20°C with all functions on (backlighting, pump on speed 2)<br>- 6 hours at temperatures below 0°C with all functions on (backlighting, pump on speed 2)<br>- 6 hours at temperatures above 35°C with all functions on (backlighting, pump on speed 2) | |
| Battery Charger | 100 to 240 VAC/ 50-60 Hz battery charger for ATEX battery pack | |
| Charge Time | Approximately 14 hours from complete discharge | |
| **GAS RANGES** | | |
| Response Time, $T^{90}$ | CH4 | 4.5 seconds<br>T10 standards: 2 seconds<br>With suction rod T90: 6 seconds<br>With suction rod T10: < 3.5 seconds |
| Gases Measured | CH4 by laser spectroscopy | |
| Range | CH4 - 0-10,000 ppm and 0 ppm to 100% gas volume | |
| Typical Accuracy | CH4 detection threshold - 1 ppm | |
| **FACILITIES** | | |
| Alarms | They activate the visual (LED and LCD displays) and audio warnings<br>Alarms include:<br>Methane CH4 concentration threshold<br>Explosion risk due to methane CH4 concentration<br>Pump stopped or pump error | |
| Status Indicators | Include:<br>Battery charge level<br>Pump status (speed 1 or speed 2) | |
| Gas Connection | Quick connect inlet coupling with locking mechanism: suction rod on right side<br>Quick connect gas outlet coupling | |
| Keypad | 5 Direct control keys<br>Advanced function control with protected access scrolling menu | |

Geotech
A subsidiary of LANDTEC

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Email: sales@geotech.co.uk

Product designs and specifications are subject to change without notice. User is responsible for determining suitability of product.

| TDL-500, cont'd. | |
|---|---|
| **PUMP** | |
| Output | 45 l/h and 60 l/h - 2 speed pump with status indicator on display |
| **ENVIRONMENTAL CONDITIONS** | |
| Operating Temperature Range | - 15°C to +40°C |
| Relative Humidity | From 55 to 80% relative humidity |
| Case Seal | IP54 |
| Barometric Pressure | Atmospheric pressure 1013mbar (± 100mbar) |
| **PHYSICAL** | |
| Weight | 2.7 Kilograms (with batteries) (5.9lbs) |
| Size | L 263mm, W 113mm, D 141mm (10.3 x 4.4 x 5.5 inches) |
| Case Material | Polyamide reinforced with fibreglass and carbon. Front panel: anodised aluminium |
| Display | Liquid crystal display with digits, icons and backlighting<br>3 areas:<br>Concentration measurements (0-10,000ppm and 0.0% to 100% gas volume)<br>Status indicator and dialogue window<br>Height of measurement character for ppm scale: 13mm<br>Height of measurement character for gas scale: 13mm |
| Storage Conditions (excluding batteries | Humidity:<90% relative humidity<br>Temperature: -20°C to +60°C |
| **CERTIFICATION RATING** | |
| ATEX |  II 2G Ex ib IIB T4 |
| CE | CE Marking<br>94/9/CE directive dated March 23rd 1994<br>89/336/CE CEM directive dated May 3rd 1989: electromagnetic compatibility |
| European Standards | Conditions for the ATEX 1ppm to 100% gas volume version;<br>European standards of use in explosive atmospheres:<br>EN 60079-0 from March 2004<br>EN 60079-11 from January 2007<br>See ATEX above |
| **Important Note** | The information in this document is correct at the time of generation, we do however, reserve the right to change the specification without prior notice as a result of continuing development. |



CAUTION LASER
INVISIBLE RADIATION
CLASS 1 LASER PRODUCT
Pat. No ZI
02829531.5

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CALIBRATION CERTIFICATE:

| | |
|---|---|
| Certificate ref. | CGDTCAL_205 |
| Issued By: | CGD Technology Limited |
| Date: | 12.07.2020 |
| Staff: | Thomas Fairey |
| Instrument: | Gas Clam |
| Serial Number: | 317.06.12 |

**Calibration Results**

| Sensor | Lot No. | Reference Value | Indicated Value |
|---|---|---|---|
| Hydrogen sulphide | C602017 | 115 | 115 |
| Carbon monoxide | 26368 | 41 | 39 |
| Methane | C322726 | 59.5 | 59.6 |
| Carbon dioxide | C322726 | 40.5 | 40.4 |
| Oxygen | C322726 | 0 | 0.1 |
| Isobutylene | - | - | - |
| Atmospheric pressure | - | - | - |
| Borehole pressure | - | - | - |
| Temperature | - | - | - |

Comments:

Prior to calibration the GasClam was allowed to stabilise in ambient air for 1 hour taking measurements at 3 minute intervals.

The Instrument was calibrated by exposing the sensors to known values of gas concentrations.

Pressure was calibrated using a known artifically generated higher pressure.

The reference values are those generated by the ceritifed source and indicated values are those measured by the GasClam.

Uncertainty is based on a standard uncertainty multiplied by a coverage factor of k=2

This provides a level of confidence of uncertainty of approximately 95%

| Ambient conditions | |
|---|---|
| Temperature | 22.2 |
| Atmospheric Pressure | 1007 |
| Relative Humidity | 58.6 |

CGDT Technology Ltd, Pythia House (unit 10)
Bamford Business Park, Hibbert street
Stockport, SK4 1PL

CALIBRATION CERTIFICATE:

| | |
|---|---|
| Certificate ref. | CGDTCAL_ |
| Issued By: | CGD Technology Limited |
| Date: | 18/03/2021 |
| Staff: | Thomas Fairey |
| Instrument: | GasSentinel |
| Serial Number: | 3000054 |

| Calibration Results | | | |
|---|---|---|---|
| **Sensor** | **Lot No.** | **Reference Value** | **Indicated Value** |
| Hydrogen sulphide | | 118 | 116.6 |
| Carbon monoxide | | 40 | 53.61 |
| Methane | C322626 | 59.73 | 58.83 |
| Carbon dioxide | C322626 | 40.27 | 40.07 |
| Oxygen | C322626 | 0 | -0.06 |
| Isobutylene | C322826 | 0 | 0 |
| Atmospheric pressure | VAISALA-PTU301 | 1013 | 1018 |
| Borehole pressure | VAISALA-PTU301 | 1013 | 0 |
| Temperature | VAISALA-PTU301 | 20.1 | 22.66 |

Comments:

Prior to calibration the GasClam was allowed to stabilise in ambient air for 1 hour taking measurements at 3 minute intervals.

The Instrument was calibrated by exposing the sensors to known values of gas concentrations.

Pressure was calibrated using a known artifically generated higher pressure.

The reference values are those generated by the ceritifed source and indicated values are those measured by the GasClam.

Uncertainty is based on a standard uncertainty multiplied by a coverage factor of k=2

This provides a level of confidence of uncertainty of approximately 95%

| Ambient conditions | |
|---|---|
| Temperature | 20.1 |
| Atmospheric Pressure | 1013 |
| Relative Humidity | 37 |

CGDT Technology Ltd, Pythia House (unit 10)
Bamford Business Park, Hibbert street
Stockport, SK4 1PL

## CALIBRATION CERTIFICATE:

| | |
|---|---|
| Issued By: | **CGDT Technology Ltd.** |
| Date: | 26/04/2021 |
| Staff No. | TF |
| Instrument: | 3000044 |

| **Calibration Results** | | | |
|---|---|---|---|
| **Sensor** | **Lot No.** | **Ref. value** | **Indicated value** |
| Carbon monoxide | C24438 | 40 | 41 |
| Hydrogen sulphide | C22238 | 118 | 117 |
| Methane | C322626 | 59.8 | 60.7 |
| Carbon dioxide High | C322626 | 40.2 | 40.0 |
| Carbon dioxide Low | C22726 | 1.99 | 2.07 |
| Carbon dioxide Low ppm | C24338 | 504 | 499 |
| Oxygen | C322626 | 0.0 | 0.0 |

Comments:

Prior to calibration the sensors were allowed to stabilise in ambient air for 1 hour.

The Instrument was calibrated by exposing the sensors to known values of gas concentrations.

The reference values are those generated by the ceritifed source and indicated values are those measured by the Gas Sentinel.

Uncertainty is based on a standard uncertainty multiplied by a coverage factor of k=2

This provides a level of confidence of uncertainty of approximately 95%

| **Ambient conditions** | |
|---|---|
| Temperature | 20.5 |
| Relative Humidity | 35.1 |

CALIBRATION CERTIFICATE:

| | |
|---|---|
| Issued By: | CGD Technology Limited |
| Date: | 15/01/2021 |
| Staff: | TF |
| Instrument: | GasClam |
| Serial Number: | 44.12.09 |

| Calibration Results | | | |
|---|---|---|---|
| **Sensor** | **Lot No.** | **Reference Value** | **Indicated Value** |
| Hydrogen sulphide | C22238 | 118 | 118 |
| Carbon monoxide | C24438 | 40 | 39 |
| Methane | C322626 | 59.7 | 60.6 |
| Carbon dioxide | C322626 | 40.23 | 41.1 |
| Oxygen | C322626 | 0 | 1.7 |
| Isobutylene | C322826 | 101 | 99 |
| Atmospheric pressure | VAISALA-PTU301 | 1020 | 1020 |
| Borehole pressure | VAISALA-PTU301 | 1020 | 1020 |
| Temperature | VAISALA-PTU301 | 19.7 | 17.6 |

Comments:

Prior to calibration the GasClam was allowed to stabilise in ambient air for 1 hour taking measurements at 3 minute intervals.

The Instrument was calibrated by exposing the sensors to known values of gas concentrations.

Pressure was calibrated using a known artifically generated higher pressure.

The reference values are those generated by the ceritifed source and indicated values are those measured by the GasClam.

Uncertainty is based on a standard uncertainty multiplied by a coverage factor of k=2

This provides a level of confidence of uncertainty of approximately 95%

| Ambient conditions | |
|---|---|
| Temperature | 19.7 |
| Atmospheric Pressure | 1020 |
| Relative Humidity | 33.5 |

CGDT Technology Ltd, Pythia House (unit 10)
Bamford Business Park, Hibbert street
Stockport, SK4 1PL

CALIBRATION CERTIFICATE:

| | |
|---|---|
| Certificate ref. | CGDTCAL_ |
| Issued By: | CGD Technology Limited |
| Date: | 18/03/2021 |
| Staff: | Thomas Fairey |
| Instrument: | GasSentinel |
| Serial Number: | 3000036 |

| Calibration Results | | | |
|---|---|---|---|
| **Sensor** | **Lot No.** | **Reference Value** | **Indicated Value** |
| Hydrogen sulphide | | 118 | 116.94 |
| Carbon monoxide | | 40 | 40.23 |
| Methane | C322626 | 59.73 | 59.14 |
| Carbon dioxide | C322626 | 40.27 | 40.35 |
| Oxygen | C322626 | 0 | -0.08 |
| Isobutylene | C322826 | 0 | 0 |
| Atmospheric pressure | VAISALA-PTU301 | 1020 | 1019 |
| Borehole pressure | VAISALA-PTU301 | 1020 | 0 |
| Temperature | VAISALA-PTU301 | 20 | 22.15 |

Comments:

Prior to calibration the GasClam was allowed to stabilise in ambient air for 1 hour taking measurements at 3 minute intervals.

The Instrument was calibrated by exposing the sensors to known values of gas concentrations.

Pressure was calibrated using a known artifically generated higher pressure.

The reference values are those generated by the ceritifed source and indicated values are those measured by the GasClam.

Uncertainty is based on a standard uncertainty multiplied by a coverage factor of k=2

This provides a level of confidence of uncertainty of approximately 95%

| Ambient conditions | |
|---|---|
| Temperature | 20 |
| Atmospheric Pressure | 1020 |
| Relative Humidity | 42.1 |

CGDT Technology Ltd, Pythia House (unit 10)
Bamford Business Park, Hibbert street
Stockport, SK4 1PL

CALIBRATION CERTIFICATE:

| | |
|---|---|
| Certificate ref. | CGDTCAL_ |
| Issued By: | CGD Technology Limited |
| Date: | 17/11/2020 |
| Staff: | Thomas Fairey |
| Instrument: | GasClam |
| Serial Number: | 22.09.20 |

| Calibration Results | | | |
|---|---|---|---|
| **Sensor** | **Lot No.** | **Reference Value** | **Indicated Value** |
| Hydrogen sulphide | | 118 | 121.3 |
| Carbon monoxide | | 40 | 40 |
| Methane | C322626 | 59.73 | 61.8 |
| Carbon dioxide | C322626 | 40.27 | 40.6 |
| Oxygen | C322626 | 0 | 0.3 |
| Isobutylene | C322826 | 101 | 100 |
| Atmospheric pressure | VAISALA-PTU301 | 1005.7 | 1006 |
| Borehole pressure | VAISALA-PTU301 | 1005.7 | 1005 |
| Temperature | VAISALA-PTU301 | 18.3 | 19.6 |

Comments:

Prior to calibration the GasClam was allowed to stabilise in ambient air for 1 hour taking measurements at 3 minute intervals.

The Instrument was calibrated by exposing the sensors to known values of gas concentrations.

Pressure was calibrated using a known artifically generated higher pressure.

The reference values are those generated by the ceritifed source and indicated values are those measured by the GasClam.

Uncertainty is based on a standard uncertainty multiplied by a coverage factor of k=2

This provides a level of confidence of uncertainty of approximately 95%

| Ambient conditions | |
|---|---|
| Temperature | 18.3 |
| Atmospheric Pressure | 1005.7 |
| Relative Humidity | 56.8 |

CGDT Technology Ltd, Pythia House (unit 10)
Bamford Business Park, Hibbert street
Stockport, SK4 1PL

# CERTIFICATION OF CALIBRATION

4533

**Date Of Calibration:** 30-Oct-2020

**Certificate Number:** G503519_1/26779

Issued by: QED Environmental Systems Ltd.

*The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95%. The uncertainty evaluation has been carried out in accordance with UKAS requirements.*

Due to the instrument being in an inoperable condition upon receipt, the as-received gas check results are unavailable for this calibration instance.

Calibrations marked 'Non-UKAS Accredited results' on this certificate have been included for completeness.

**Non-UKAS accredited results after adjustment:**

| Barometer (mbar) | |
|---|---|
| **Reference** | **Instrument Reading** |
| 1001 | 1001 |

| Additional Gas Cells | | |
|---|---|---|
| **Gas** | **Certified Gas (ppm)** | **Instrument Reading (ppm)** |
| $H_2$ | 1039 | 1,040 |
| CO | 508 | 511 |
| $H_2S$ | 261 | 261 |

| Internal Flow | |
|---|---|
| **Applied (l/hr)** | **Instrument Reading (l/hr)** |
| 5.0 | 5.3 |
| 10.0 | 10.2 |

**Date of Issue :** 03-Nov-2020 **Approved by Signatory** Laura McBride

Laboratory Inspection

End of Certificate

This certificate is issued in accordance with the laboratory accreditation requirements of the United Kingdom Accreditation Service. It provides traceability of measurement to the SI system of units and/or to units of measurement realised at the National Physical Laboratory or other recognised national metrology institutes. This certificate may not be reproduced other than in full, except with the prior written approval of the issuing laboratory.

Calibration Instance:111 IGC Instance:110



www.qedenv.com +44 (0) 333 800 0088 sales@qedenv.co.uk

QED Environmental Systems Ltd. Cyan Park - Unit 3, Jimmy Hill Way, Coventry, CV2 4QP, UNITED KINGDOM

Registered in England and Wales 1898734

# Appendix G

## Gas Clam® and Gas Sentinel® Instrumentation Overview

For: Delta-Simons Environmental Consultants Ltd.
Ref No.: GGS2440DP01
Date: 01/06/2021

Experts in Continuous Monitoring

Experts in Continuous Monitoring

# GGS GasClam® Instrumentation Overview & Deployment Information



## Introduction

GGS GasClam® instruments are high frequency in situ borehole gas monitoring devices, suitable for detection of a wide range of ground gases commonly found in borehole monitoring. The equipment is ATEX approved and IP68 rated and can operate safely in explosive atmospheres and survive flooding environments. They can also be secured to building walls or placed internally to monitor sub-floor spaces or indoor air.

GGS currently have three versions of the instrument, a bulk gas version which monitors methane, carbon dioxide and oxygen; a trace gas version which also includes sensors for hydrogen sulphide, carbon monoxide and total volatile organic compounds; and a specialized instrument that can monitor methane and carbon dioxide between 0 – 5%v/v at a high resolution of 0.05% in addition to the other gases. All versions record atmospheric pressure, borehole pressure and temperature as standard.

Should your site be influenced by water level changes (e.g. tidal or flooding), GGS can also provide water level logging alongside the high frequency ground gas data if required.

## GasClam® Sensor Specifications, Service and Maintenance

The GGS GasClam® instruments are serviced and calibrated annually. Routine maintenance including the replacement of filters and operational checks are carried out at regular intervals and prior to deployment at a site. Copies of the calibration certificates for the instruments used on site are included as standard within reporting. Details of the sensor specification are provided below:

| Sensor | Method / Type | Range | Resolution |
|---|---|---|---|
| Methane (0-100%) | Infrared | 0 - 100%v/v | 1% of measuring range above 50%, 0.5% below 50% |
| #Methane (0-5%) | Infrared | 0-5%v/v | 0.05% |
| Carbon Dioxide (0-100%) | Infrared | 0 - 100%v/v | 1% of measuring range above 50%, 0.5% below 50% |
| #Carbon Dioxide (0-5%) | Infrared | 0-5%v/v | 0.05% |
| Oxygen | Electrochemical | 0 - 25%v/v | 0.1% |
| *Hydrogen Sulphide | Electrochemical | 0 - 100ppmv | 1ppmv |
| *Carbon Monoxide | Electrochemical | 0 - 1000ppmv | 1ppmv |
| *Total Volatile Organic Compounds | PID | 0 - 4000ppmv | 1ppmv |
| Atmospheric Pressure | Piezoelectric | 800 - 1200mb | 1mBar |
| Borehole Pressure | Piezoelectric | 800 - 1200mb | 1mBar |
| Temperature | Internal chip | -5°C to +50°C | 1°C |

# Only installed on the 0-5% High Resolution GasClam® * Only installed in VOC GasClam®

The GGS GasClam® equipment is battery powered and runs off two D cell batteries. The bulk gas versions can take approximately 1350 readings (approximately 8 weeks based on hourly sampling), with the other versions taking approximately 600 readings (approximately 3.5 weeks based on hourly sampling) before the batteries need replacing.

## Deployment Requirements (IMPORTANT)

For GGS GasClam® instruments to be deployed, standard 50mm installation standpipes are required (larger diameter boreholes can be accommodated for). Headworks with enough clearance and a suitable secure cover are also required. GGS recommend that a minimum 8 inch diameter flush fit cover (for example MW8 covers available from Stuart Wells http://wellservices.stuartgroup.ltd.uk/ ) be used. A minimum 100mm clearance is required from the top of the 50mm standpipe to the underside of the cover. A minimum 150mm internal headworks diameter is required (75mm clear radius from centre of stand pipe). We also recommend that minimum standing water level is greater than 0.9m below the standpipe top due to the instrument halting gas sampling automatically to avoid taking water internally.

GGS can also deploy GasClam® instruments within buildings or fix them to external walls within protective and secure housing should you wish to monitor indoor air or subfloor void spaces of existing buildings or for verification purposes. If the above requirements cannot be achieved, please contact GGS to discuss site specific deployment options – there probably is one!

### GasClam Insurance

GGS offer insurance to cover the instruments against theft from site and is an optional part of our service.

Experts in Continuous Monitoring

# GGS Gas Sentinel® Instrumentation
# Overview & Deployment Information



## Introduction

GGS Gas Sentinel® is a transportable, continuous, multi-gas analyser; with 2-way telemetry capability. It is easy to use for both short term and long term monitoring of landfill, contaminated land and existing buildings. Versatile remote data acquisition through an intuitive dashboard provides cost effective regulatory compliance. The equipment is designed to be ATEX* and IP68* rated and can operate safely in explosive atmospheres and survive flooding environments (*awaiting certification).

GGS Gas Sentinel® devices can be configured to carry an extended range of gas sensors but is normally available to monitor methane, carbon dioxide, oxygen, TVOC, hydrogen sulphide and carbon monoxide. Sensors for both full range and high resolution 0-5% methane and 0-2,000ppm carbon dioxide are available. The device also records atmospheric pressure, borehole pressure and temperature and borehole gas flow as standard.

GGS can also provide high frequency water level logging in conjunction with Gas Sentinel deployments

## Gas Sentinel® Sensor Specifications, Service and Maintenance

The GGS instruments are serviced and calibrated annually. Routine maintenance including the replacement of filters and operational checks are carried out at regular intervals and prior to deployment at a site. Copies of the calibration certificates for the instruments used on site are included as standard within reporting. Details of the sensor specification are provided below:

| Sensor | Method / Type | Range | Resolution & Tolerance |
|---|---|---|---|
| Methane (0-100%) | Infrared | 0 - 100%v/v | 0.1% v/v 2%FSD or ± 10% of reading whichever is the greatest |
| Methane (0-5%) High Resolution | Infrared | 0-5%v/v | 0.01% v/v or 2%FSD or ± 10% of reading whichever is the greatest |
| Carbon Dioxide (0-100%) | Infrared | 0 - 100%v/v | 0.1% v/v or 2%FSD or ± 10% of reading whichever is the greatest |
| Carbon Dioxide (0-2,000ppm) High Resolution | Infrared | 0-2,000ppmv | 10ppm or 2%FSD or ± 10% of reading whichever is the greatest |
| Oxygen | Electrochemical | 0 - 25%v/v | 0.1% v/v or ± 10% of reading whichever is the greatest |
| Hydrogen Sulphide | Electrochemical | 0 - 100ppmv | 1ppm ±4ppm or ± 10% of reading whichever is the greatest |
| Carbon Monoxide | Electrochemical | 0 – 1,000ppmv | 1ppm ±6ppm or ± 10% of reading whichever is the greatest |
| Total Volatile Organic Compounds | PID | 0 – 4,000ppmv | 1ppm ±10ppm or ± 10% of reading whichever is the greatest |
| Atmospheric Pressure | Piezoelectric | 800 – 1,200mb | ±1mbar |
| Borehole Pressure | Piezoelectric | 800 – 1,200mb | ±1mbar |
| Temperature | Internal chip | -5°C to +50°C | 0.1°C ±0.5°C of reading |
| Humidity | Capacitive Internal chip | 0-100%RH | 1%RH ±1.8%RH |
| Gas Flow | Thermal sensor | 0–60 Ltr/hr | 0.1ltr/hr ±0.1ltr/hr or 10% of reading whichever is the greatest |

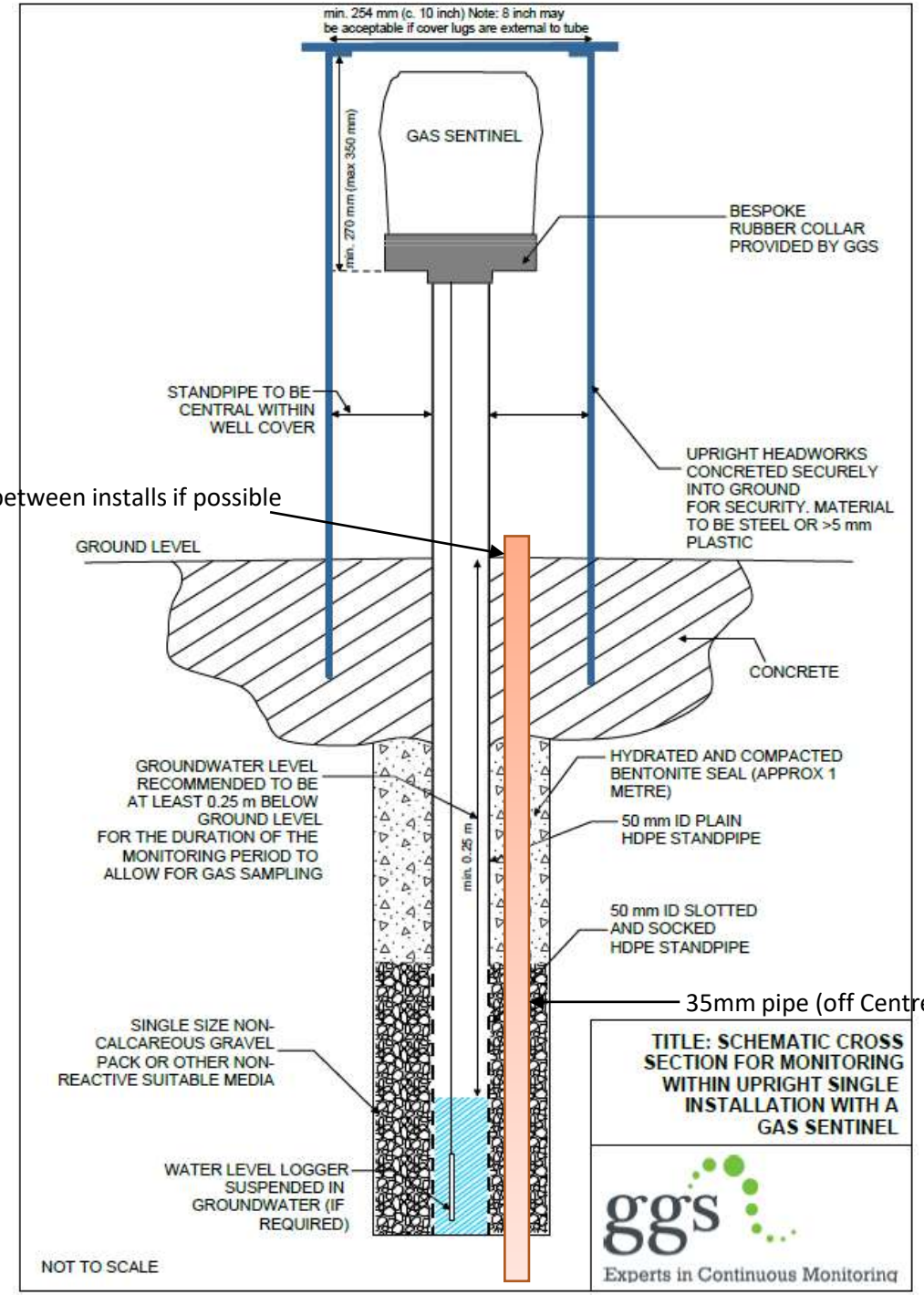
The GGS Gas Sentinel® is powered by re-chargeable batteries that can provide 4 weeks to several months depending on how many sensors are switched on and the frequency of monitoring. Please discuss your requirements with GGS for the optimum configuration for your site.

## Deployment Requirements (IMPORTANT)

The GGS Gas Sentinel® is designed for deployment with standard 50mm installation standpipes but can be used with both larger and smaller diameter standpipes. Secure headworks with sufficient clearance are required for the Gas Sentinel®. GGS recommends a 10 inch diameter flush fit. A minimum 250 mm clearance is required from the top of the 50mm standpipe to the underside of the cover. GGS recommends a minimum distance of 0.25m between the top of the standpipe and standing water level to allow gas sampling. The device is also easily fitted to either inside or to the outside of buildings. Other bespoke deployment options are available. Please contact GGS to discuss options.

## Gas Sentinel® Insurance

GGS can provide insurance to cover instruments against theft from site or acts of vandalism.


min. 254 mm (c. 10 inch) Note: 8 inch may be acceptable if cover lugs are external to tube
GAS SENTINEL
min. 270 mm (max 350 mm)
BESPOKE RUBBER COLLAR PROVIDED BY GGS
STANDPIPE TO BE CENTRAL WITHIN WELL COVER
UPRIGHT HEADWORKS CONCRETED SECURELY INTO GROUND FOR SECURITY. MATERIAL TO BE STEEL OR >5 mm PLASTIC
5cm min gap between installs if possible
GROUND LEVEL
CONCRETE
GROUNDWATER LEVEL RECOMMENDED TO BE AT LEAST 0.25 m BELOW GROUND LEVEL FOR THE DURATION OF THE MONITORING PERIOD TO ALLOW FOR GAS SAMPLING
min. 0.25 m
HYDRATED AND COMPACTED BENTONITE SEAL (APPROX 1 METRE)
50 mm ID PLAIN HDPE STANDPIPE
50 mm ID SLOTTED AND SOCKED HDPE STANDPIPE
35mm pipe (off Centre)
SINGLE SIZE NON-CALCAREOUS GRAVEL PACK OR OTHER NON-REACTIVE SUITABLE MEDIA
WATER LEVEL LOGGER SUSPENDED IN GROUNDWATER (IF REQUIRED)
NOT TO SCALE
TITLE: SCHEMATIC CROSS SECTION FOR MONITORING WITHIN UPRIGHT SINGLE INSTALLATION WITH A GAS SENTINEL
ggs
Experts in Continuous Monitoring

# Appendix L – Static Cone Penetration Test Factual Report

IN SITU
SITE INVESTIGATION



STATIC CONE PENETRATION TEST

# FACTUAL REPORT

CLIENT: Delta Simons Environmental Consultants Limited

PROJECT: Brockhampton Landfill Site

| | |
|---|---|
| **Project** | **Brockhampton Landfill Site** |
| **Project No.** | **1210220** |
| **Client** | **Delta Simons Environmental Consultants Ltd** |
| **Address** | **3 Henley Office Park, Doddington Road, Lincoln, LN6 3QR** |

**Attention:** Mr David Jackson

Dear Mr Jackson,

We have pleasure in providing a digital copy of our report and data in AGS format for the above project.

We hope that you are satisfied with the performance of our staff, equipment and reporting on this project. If you should have any queries about any aspect of the works carried out, please do not hesitate to contact us. We look forward to being of service to you in the future.

Yours faithfully,
**In Situ Site Investigation Limited**



**Darren Ward**
**Director**

**Report Issue**

| Issue | Date | Prepared | Sign | Checked | Sign | Approved | Sign |
|---|---|---|---|---|---|---|---|
| 02 | 25/05/2021 | Chloe Donovan |  | Luisa Dhimitri |  | Darren Ward |  |

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# 1.0 INTRODUCTION

In Situ Site Investigation Limited (In Situ) was engaged in a geotechnical site investigation at Brockhampton Landfill Site at the request of Delta Simons. The site investigation consisted of completing 16 Static Piezocone Penetration Tests (CPTU) to provide information on the soil conditions and derived geotechnical parameters at:

Brockhampton West,
Harts Farm Way,
Havant,
Hampshire,
PO9 1FA

All test locations were provided by the client. A site map is included in the end of Appendix A of this report (if provided by the client). The tests were stopped when they reached the target depth as per the client's technical specifications or for other technical reasons, as detailed in the *Project Summary Table* in *Appendix A.1* and on each CPTU log included in Appendix B of this report.

The fieldwork was carried out from 29th March 2021 to 30th March 2021 as per the client's request.

The work on site and the final factual reporting have been undertaken in accordance with the international technical standard *BS EN ISO 22476-1:2012*.

# 2.0 FIELDWORK

## 2.1 CONE PENETRATION TESTS

The fieldwork activity is summarised in Table 2.1.

| **Table 2.1 Fieldwork Summary** | |
|---|---|
| **CPT Operator/s** | Ashley Lelliott |
| **Date Started** | 29th March 2021 |
| **Date Finished** | 30th March 2021 |
| **In Situ S.I. Project Manager** | Darren Ward |
| **Main Contractor's Site Manager** | Liane Baiao |

### *2.1.1 Rig Information*

Details of CPTU rig used in this project are shown in Table 2.2. Full data sheet for the rig is presented in *Appendix A.2*.

| **Table 2.2 Rig Summary** | |
|---|---|
| **Rig Name** | **Rig Description** |
| CPT022 | 20 Tonne Track Mounted CPT Rig |

### *2.1.2 CPTU Cone*

Details of electric CPTU cone (Type TE2) used in this project conforming to the requirements of Application Class 2 of *ISO 22476-1:2012*, are shown in Table 2.3.

| **Table 2.3 Cone Summary** | | |
|---|---|---|
| **Number** | **Cross-section area** | **Filter position** |
| DP15-CFPTxy.71069 | 15cm$^2$ | $u_2$ |

A full datasheet of the cone used is shown in *Appendix A.3*.

The cone's measured parameters are shown in Table 2.4.

| **Table 2.4 Completed Fieldwork Summary** |
|---|
| 16 CPTU to a maximum depth of 30.91m. Each test measured Cone Resistance, $q_c$, Sleeve Friction, $f_s$, Porewater Pressure in the shoulder position, $u_2$, Inclination in X and Y axes. |
| *Provision of factual report with estimated soil type, derived geotechnical parameters & AGS data* file. |

### 2.1.3 CPTU Cone Calibration

The cone resistance and sleeve friction are recorded by calibrated load cells in the cone. The CPTU load cells and pressure transducers are regularly calibrated in line with *ISO 22476-1:2012* standard by the cone manufacturer. The cone calibration certificate for the cone used at this site are presented in *Appendix A.4*.

### 2.1.4 CPTU Cone Saturation

The pore water pressure is recorded using a calibrated pressure transducer located in the piezocone. To ensure pore water pressure measurements are not affected by the presence of air in the measuring transducer, a de-airing procedure is carried out prior to each test. The cone and filter are saturated using a glycerine fluid with a viscosity of 10,000 CST.

### 2.1.5 Test Procedure

The tests are carried out in accordance with the *International Standard for Electrical Cone and Piezocone Penetration Test (ISO 22476-1:2012)*.

The final depths of the tests were determined by either completion to the specified test depth or when the maximal safe capacity of the equipment was reached. A schedule of the tests performed is shown in *Appendix A.1*, which has been compiled from the operators' daily progress reports.

The data is transmitted from the digital CPTU through an umbilical cable that runs through the push rods to the data acquisition system. Results are displayed instantaneously on the computer logging screen. The results are recorded on the computer hard disc.

The rate of penetration is kept constant at 20 mm/s ± 5 mm/s except when penetrating very dense or hard strata. Before each test is carried out zero values are taken of the cone to check if it is within calibration. At the end of each test, zero values are taken again to see if there has been any drift during the test. These values are inspected during the post processing stage. This is a quality check on the data and the testing procedure. Individual test zero values are shown on their corresponding test results in *Appendix B*.

### 2.1.6 In Situ Pore Pressure ($u_0$)

The in situ or hydrostatic pore pressure is required for the calculation of several derived parameters included in this report. For this report, the groundwater level is assumed at 2.00 m below ground surface, for calculation purposes. The in situ pore pressure ($u_0$) values are presented on the pore pressure plot, on *CPT Log 01,* which is included in *Appendix B*.

## 2.2 POSITIONING

Positioning and surveying of all investigated locations was the responsibility of the client. The site map and position of the tests are presented in *Appendix A.9*. All test coordinates are included in the summary sheet in *Appendix A.1,* if supplied from the client.

# 3.0 CONE PENETRATION MEASURED PARAMETERS

All measured parameters of tests carried with the CPTU cone are shown in *Appendix B* and all the information about data processing and results are given in sections *3.1*, *3.2* and *3.3*.

## 3.1 DATA PROCESSING

The measured parameters, cone end resistance, $q_c$, sleeve friction, $f_s$, porewater pressure measurements with filter in shoulder position, $u_2$ and inclination for *x* and *y* axis, $I_x$, $I_y$, were recorded for every *10 mm* of penetration keeping a constant speed of *20 mm/s ± 5 mm/s*, which may slightly change when the cone is penetrating hard strata.

The measured data from the site works is processed and presented using specialised CPT software. The interpretations on the CPTU results were carried out following the recommendations of *Lunne et al. (1997)*, *Robertson (2015)* and *BS EN ISO 22476-1:2012.* Measured parameters, mentioned in *Sections 3.2* and *3.3*, were used to derive all the geotechnical parameters, which are presented in *Chapter 4.0*. The soil behaviour type method used on this report is *Robertson et al. (1986)*, shown in *Figure 3.2*.

### *3.1.1 Zero Measurements*

Before and after each CPTU test, zero measurements are recorded for each channel of the cone. The zero measurements are presented on the logs in *Appendix B*. This is a routine quality check carried out on site.

## 3.2 MEASURED PARAMETERS

### *3.2.1 Cone Resistance ($q_c$)*

Cone resistance, $q_c$, is measured as the total force acting on the cone, divided by the projected area of the cone. The results are presented in *MPa*, on *CPT Log 01*, in *Appendix B*, scale *0-20 MPa* with a minor scale printing on the same graph at *0-4 MPa*.

### *3.2.2 Sleeve Friction ($f_s$)*

Sleeve friction, $f_s$, is measured as the total frictional force acting on the friction sleeve divided by its surface area. The results are presented in *kPa*, on *CPT Log 01*, in *Appendix B*, using a scale of *0-500 kPa*.

### 3.2.3 Porewater pressure ($u_2$)

The pore pressure, $u_2$, is measured during the test. If the material is free draining and saturation is maintained it will normally measure hydrostatic pore pressure. In materials that are not free draining, it will record the total pore pressure (hydrostatic plus any excess pore pressures generated) created by the cone penetration through this material.

The filter element can be mounted in one of three positions. For all tests carried out in this project the filter was mounted in the $u_2$ position (see *Figure 3.1*).

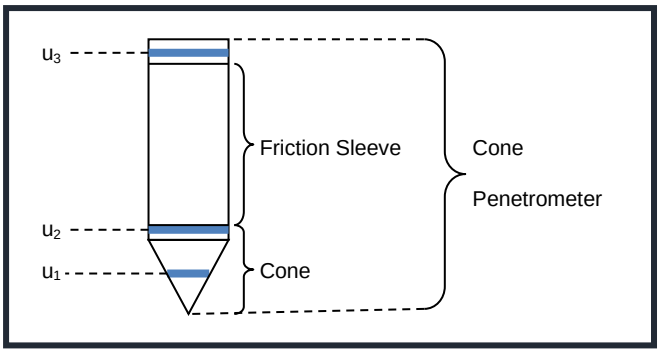



***Figure 3.1:*** *Diagram showing pore pressure filter locations (after Lunne et al., 1997)*

### 3.2.4 Inclination ($I_x$, $I_y$)

The CPT rig was set up to obtain a thrust direction as near as possible to vertical. The CPTU cones have inclinometers incorporated to measure the non-verticality of the test. For test depths less than *15 m*, significant non-verticality is unusual, provided the initial thrust direction is vertical.

## 3.3 ESTIMATED SOIL BEHAVIOUR TYPE

### 3.3.1 Friction Ratio ($R_f$)

The friction ratio, $R_f$ is the ratio between the sleeve friction and the cone resistance (Lunne *et al.,* 1997).

$$Fricton\ Ratio\ (R_f) = \left(\frac{Sleeve\ Friction\ (f_s)}{Cone\ Resistance\ (q_c)}\right) \times 100$$

### 3.3.2 Estimated Soil Behaviour Type (SBT)

The estimation of soil behaviour type, *SBT*, using measurements of cone resistance and sleeve friction is based upon the variations of the friction ratio and cone resistance. The friction

ratio varies depending upon whether the soil is cohesive or granular. The cone resistance varies depending on the strength and densities of the soil.

The interpretation used in this report is *Robertson et al. (1986)*, which is shown in Figure 3.2. The results are presented on *CPT Log 01*, in *Appendix B*.

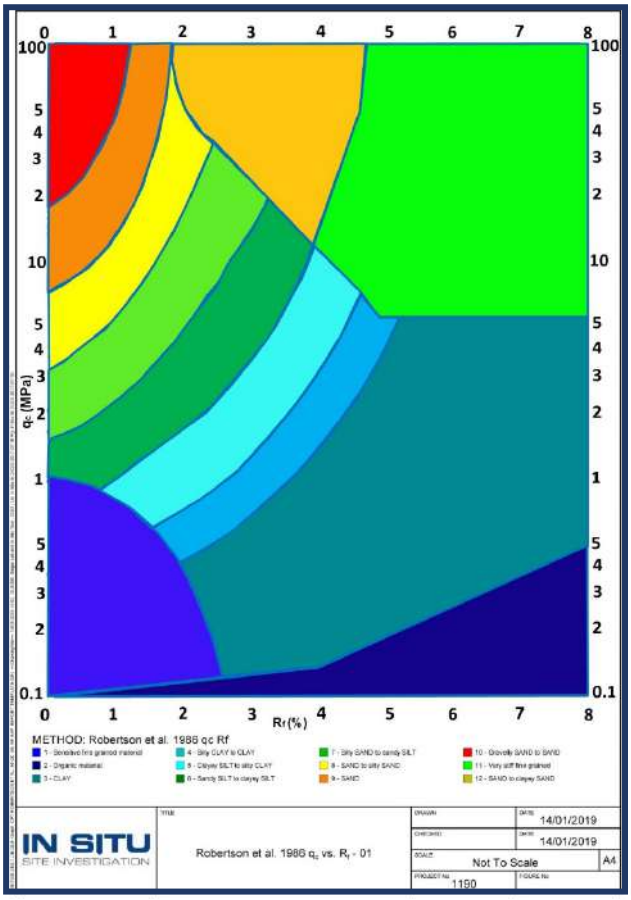



***Figure 3.2:*** *Robertson et al., 1986 soil behaviour type chart.*

### *3.3.3 Pore Pressure Ratio ($B_q$)*

Pore pressure ratio, $B_q$ is the ratio between the measured pore pressure generated during penetration and the corrected cone resistance minus the total overburden stress.

Pore pressure ratio as defined by *Senneset and Janbu (1985)* is defined as:

$$B_q = \frac{u_2 - u_0}{q_t - \sigma_{vo}}$$

where

| | |
|---|---|
| $u_2$ | is pore pressure measured between the cone and the friction sleeve |
| $u_0$ | is equilibrium pore pressure |
| $\sigma_{vo}$ | is total overburden stress |
| $q_t$ | is cone resistance corrected for unequal end area effects |

## 3.4 APPLIED CORRECTIONS

### 3.4.1 Corrected Cone Resistance ($q_t$)

For each penetration test, the measured cone resistance, $q_c$, can be corrected for the ''unequal area effect'' due to the influence of the ambient pore water pressure acting on the cone.

The correction has been applied using the following equation by Lunne et *al.,* 1997:

$$q_t = q_c + [u_2.(1 - \alpha)]$$

where

$\alpha$ is the cone area ratio

The cone used on this project has a cone area ratio of *0.79*. This value is geometrically measured.

### 3.4.2 Depth Correction

All tests in the report have been corrected for depth difference caused by inclination. This has been calculated using the method described in *ISO 22476-1:2012*.

To calculate the corrected depth the following formula is used:

$$z = \int_0^l C_{inc} \cdot dl$$

where

*z* is penetration depth, in *m*
*l* is penetration length, in *m*
$C_{inc}$ is correction factor for the effect of the inclination of the CPTU relative to the vertical axis.

The equation for calculating the correction factor for the influence of the inclination for a bi-axial inclinometer is:

$$C_{inc} = \frac{1}{\sqrt{(1 + tan^2\beta_1 + tan^2\beta_2}}$$

where

$\beta_1$ is the angle between the vertical axis and the projection of the axis of the CPTU on a vertical plane, in degrees
$\beta_2$ is the angle between the vertical axis and the projection of the axis of the CPTU on a vertical plane that is perpendicular to the plane of angle $\beta_1$, in degrees

# 4.0 GEOTECHNICAL DERIVED PARAMETERS

A number of empirical correlations can be used to derive geotechnical parameters from CPTU data. This report includes only the parameters which are described in this chapter. The results of all correlations used to obtain the geotechnical derived parameters are presented on *CPT Log 02* and *CPT Log 03* in *Appendix B*.

**Please, note that each empirical correlation is derived for a certain type of soil, and may not be appropriate for all the soil types encountered on this project.**

## 4.1 SOIL BEHAVIOUR TYPE INDEX ($I_c$)

The soil behaviour type index, $I_c$, was derived by *Jefferies and Davies (1991)*, and was created to simplify the application of CPTU SBT chart shown in *Chapter 3*, *Figure 3.2*. This approach has been modified for use with the *Robertson (1990)* normalised CPT soil classification chart, *Figure 4.1*. The normalised cone parameters $Q_t$ and $F_r$ (for definitions see *Appendix A5* Symbol List) can be combined into one Soil Behaviour Type Index, $I_c$, *(Lunne et al., 1997)*.

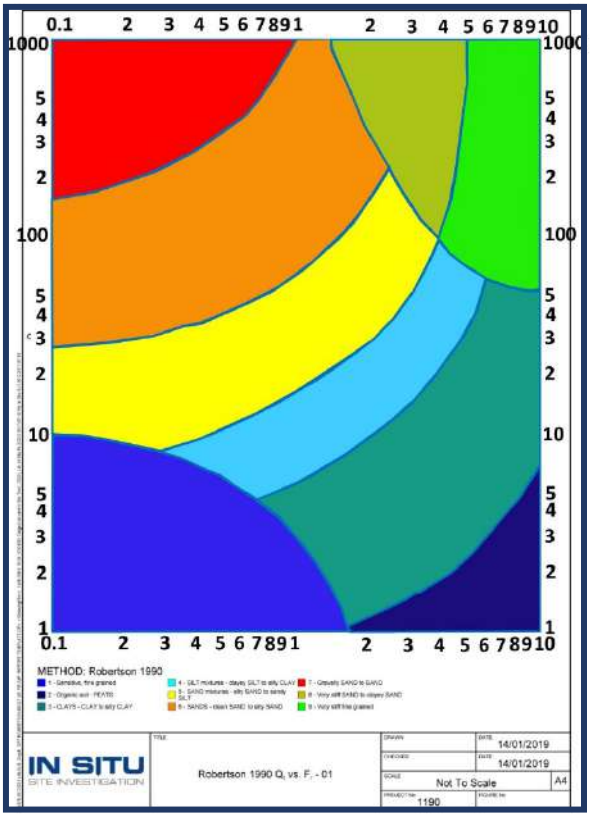



***Figure 4.1:*** *Robertson 1990 soil behaviour type chart.*

The soil behaviour type index, $I_c$, can then be defined using *Robertson (2010)* formula, given below:

$$I_c = ((3.47 - logQ_t)^2 + (logF_r + 1.22)^2)^{0.5}$$

where

$Q_t$ is the normalized cone resistance which represents the simple normalization with a stress exponent (n) of *1.0*, which applies well to clay-like soils

$F_R$ is the normalized friction ratio, in *%*

The boundaries of soil behaviour type are then given in terms of the index, $I_c$, presented in *Table 4.1* below.

The soils behaviour type index does not apply to zones *1*, *8* and *9*. The profiles of $I_c$ provide a simple guide to the continuous variation of soil behaviour type in a given soil profile based on CPTU results, with a reliability greater than *80%* compared with soil samples *(Robertson, 2015).*

| Zone | Soil Behaviour Type | $I_c$ |
|---|---|---|
| 1 | Sensitive fine grained | N/A |
| 2 | Organic Soils – clay | >3.6 |
| 3 | Clays – silty clay to clay | 2.95 – 3.6 |
| 4 | Silt mixtures – clayey silt to silty clay | 2.60 – 2.95 |
| 5 | Sand mixtures – silty sand to sandy silt | 2.05 – 2.6 |
| 6 | Sands – clean sand to silty sand | 1.31 – 2.05 |
| 7 | Gravelly sand to dense sand | <1.31 |
| 8 | Very stiff sand to clayey sand* | N/A |
| 9 | Very stiff fine grained * | N/A |

** Heavily over consolidated or cemented*

***Table 4.1:*** *Normalized CPTU Soil Behaviour Type ($SBT_n$) Index values, $I_c$.(Robertson, 2010)*

## 4.2 N VALUE OF STANDARD PENETRATION TEST (SPT) ($N_{60}$)

The derived *N* value of *SPT,* $N_{60}$, is strongly and directly related to the cone resistance, $q_c$.

In this report the $N_{60}$ value is derived using the following correlations, developed by *Robertson and Wride (1998)* and *Jefferies and Davies (1998)*

1) *Robertson & Wride (1998)*

$$N_{60} = \frac{q_c}{8.5 \cdot p_a \left(1 - \frac{I_C}{4.6}\right)}$$

2) *Jefferies and Davies (1993)*

$$N_{60} = \frac{q_c}{0.85 \cdot \left(1 - \frac{I_C}{4.75}\right)}$$

where

| | |
|---|---|
| $q_c$ | is the cone resistance |
| $p_a$ | is the atmospheric pressure equal to *100 kPa* |
| $I_c$ | is the soil behaviour type index calculated as given in *section 4.1* |

It is suggested that this method provides a better estimation of the *N* value than the actual *SPT* test, due to its poor repeatability. But in fine grained soil with high sensitivity these methods of estimating $N_{60}$ may overestimate it *(Jefferies and Davies, 1991).*

## 4.3 RELATIVE DENSITY ($D_r$)

Relative density, $D_r$, is an intermediate parameter for coarse grained soils, widely used to describe sand deposits. All the research on deriving the relative density from CPTU tests results are carried out for ***clean predominantly quartz sands***. The studies have shown that CPTU resistance in granular soils is controlled by sand relative density, in situ effective stresses and compressibility. The more compressible sands tend to give lower penetration resistance for a given relative density then less compressible sands.

In this report relative density is calculated using the methods suggested by *Baldi et al., (1986)*, *Jamiolkowski et al., (2001)* and *Kulhawy and Mayne (1990)* as shown in the equations below:

1) Baldi et al., (1986)

$$D_r = \frac{1}{C_2} \cdot ln\left(\frac{q_c \cdot Wehr}{C_1 \cdot (\sigma'_{v0})^{0.55}}\right) \cdot 100$$

where

$C_1$ is a consolidation coefficient which is *157* for normally consolidated soils and *181* for over consolidated soils

$C_2$ is a consolidation coefficient which is *2.41* for normally consolidated soils and *2.46* for over consolidated soils

Wehr is a correction coefficient for calcareous soils

2) Jamiolkowski et al., (2001)

$$D_r = 100 \cdot \left[0.268 \cdot ln\left(\frac{q_t/\sigma_{atm}}{\sqrt{\sigma'_{v0}/\sigma_{atm}}}\right) + C_1\right]$$

where

$C_1$ is a compressibility coefficient which is *-0.675* for average compressible soils, *≤1.0* for high compressible soils and carbonate or calcareous sands and *≥-2.0* for low compressible soils

$q_t$ is corrected cone resistance

$\sigma_{atm}$ is the atmospheric pressure

3) Kulhawy and Mayne, (1990)

$$D_r = \left[\frac{q_{c1}}{305 \cdot C_1 \cdot OCR^{0.18} \cdot \left(1.2 + 0.05 \cdot log(t/100)\right)}\right]^{0.5} \cdot 100$$

where

$q_{c1}$ is the cone resistance corrected for initial vertical effective stress and atmospheric pressure, calculated by the following formula

$$q_{c1} = \frac{q_c}{\sqrt{\sigma'_{v0} \cdot \sigma_{atm}}}$$

where

$q_c$ is the cone resistance in *kPa*

$\sigma'_{v0}$ is the initial vertical effective stress in *kPa*

$C_1$ is a compressibility coefficient which is *-0.91* for low compressible sands, *1.0* for medium compressible sands and *1.09* for high compressible sands

t is time in years

## 4.4 FRICTION ANGLE (φ')

Friction angle, *φ*', is used to express the shear strength of uncemented, coarse grained soils. In this report friction angle is derived by the correlations of *Mayne and Campanella (2005)*, *Robertson and Campanella (1983)* and *Kulhawy and Mayne (1990)*.

1) Mayne and Campanella, (2005)

$$\varphi' = 29.5^0 \cdot B_q^{0.121} \cdot \left[0.256 + 0.336 \cdot B_q + logQ_t\right]$$

where

$B_q$ is the pore pressure ratio, calculated as in Session 3.3

$Q_t$ is the normalized cone resistance

2) Robertson and Campanella, (1983)

$$\varphi' = \tan^{-1}\left(0.1 + 0.38 \cdot log\left(\frac{q_t}{\sigma'_{v0}}\right)\right)$$

where

$q_c$ is the cone resistance in *kPa*

$\sigma'_{v0}$ is the initial vertical effective stress in *kPa*

3) Kulhawy and Mayne, (1990)

$$\varphi' = 17.6^0 + 11.0^0 \cdot log(q_{t1})$$

where

$q_{t1}$ is the corrected cone resistance corrected for initial vertical effective stress and atmospheric pressure, calculated by the following formula

$$q_{t1} = \frac{q_t}{\sqrt{\sigma'_{v0} \cdot \sigma_{atm}}}$$

The method suggested by *Mayne and Campanella (2005)* will not provide reliable results for heavily over consolidated soils, fissured geomaterials and highly cemented or structures clays. This approach gives reliable results when pore pressure is positive and varies $0.1 < B_q < 1.0$. The correlation suggested by *Robertson and Campanella (1983)* estimates the peak friction angle for uncemented, unaged, moderately compressible, predominately quartz sands. For sands of higher compressibility, the method will tend to predict low friction angles. The method suggested by *Kulhawy and Mayne (1990)* is an alternate relationship for clean, rounded, uncemented, quartz sands.

## 4.5 FINES CONTENT (*FC*)

The fines content, *FC*, in this report is estimated using two different methods, one from *Robertson and Wride (1998)* and the other, *Suzuki et al. (1998)* as presented below:

1) Robertson and Wride (1998)

$$I_C < 1.26: FC = 0$$
$$1.26 \leq I_C \leq 3.5: FC(\%) = 1.75I_C^{3.25} - 3.7$$
$$3.5 < I_C: \ FC = 100\%$$

2) Suzuki et al. (1998)

$$FC(\%) = 2.8I_C^{2.6}$$

where

$I_c$ is the soil behaviour type index, calculated as in section 4.1

## 4.6 UNDRAINED SHEAR STRENGTH ($s_u$)

Estimation of undrained shear strength, $s_u$, from CPTU tests using corrected cone resistance is carried out using the following correlation from *Lunne et al. (1981)*:

$$S_u = \frac{(q_t - \sigma_{v0})}{N_{kt}}$$

where

$N_{kt}$ is the empirical cone factor, which varies from *10* (*6* for very soft sensitive fine grained soils) to *20*. In this report 3 values are considered: *15*, *17.5* and *20*. $N_{kt}$ tends to increase with increasing plasticity and decrease with increasing soil sensitivity. It decreases as $B_q$ increases. (*Lunne et al., 1997*)
$\sigma_{vo}$ = total overburden stress.

This report only presents the undrained shear strength data on soils with soil behaviour type index, $I_c$ values greater than *2.60*.

The value of undrained shear strength, $s_u$ to be used in analysis depends on the design problem. In general, the simple shear in the direction of loading often represents the average undrained strength. For larger, moderate to high risk projects, where high quality field and laboratory data may be available, site specific correlations should be developed based on appropriate and reliable values of $s_u$.

## 4.7 SENSITIVITY ($S_t$)

The sensitivity, $S_t$ of clays is defined as the ratio of undisturbed peak undrained shear strength to totally remoulded undrained shear strength.

In this report $S_t$ is calculated using two correlations developed by *Schmertmann (1978)* and *Mayne (2007)*.

1) Schmertmann (1978)

$$S_t = \frac{s_u}{s_{u(rem)}} = \frac{q_t - \sigma_v}{N_{kt}} \left(\frac{1}{f_s}\right)$$

where

$s_{u(rem)}$ is the remoulded undrained shear strength. It can be assumed equal to the sleeve resistance, $f_s$.

2) Mayne (2007)

$$S_t = \frac{0.073 \cdot (q_t - \sigma_{v0})}{f_s}$$

For relatively sensitive clays, $S_t > 10$, the value of $f_s$ can be very low and not very accurate, hence the estimate of sensitivity should be used as a guide only.

## 4.8 SOIL UNIT WEIGHT (γ)

Soil unit weight, $\gamma$ in this report is calculated by using one method for sands, considered under dry conditions and two methods for clays, considered under saturated conditions. These relationships are developed by *Mayne (2007)* and the equations are presented below:

1) Mayne (2007)

Dry unit weight for sands:

$$\gamma_{dry} = 1.89 \cdot log(q_{t1}) + 11.82$$

Saturated unit weight for clays method 1

$$\gamma_{sat} = 8.32 \cdot log(V_S) - 1.61 \cdot log(z)$$

Saturated unit for clays method 2

$$\gamma_{sat} = 2.60 \cdot log(f_s) + 15 \cdot G_s - 26.5$$

where

$q_{t1}$ is the corrected cone resistance corrected for initial vertical effective stress and atmospheric pressure, calculated by the following formula:

$$q_{t1} = \frac{q_t}{\sqrt{\sigma'_{v0} \cdot \sigma_{atm}}}$$

z is the depth

$V_s$ is the shear wave velocity, calculated as $V_S = 118.8 \cdot log\left(f_s\right) + 18.5$

$G_s$ is the specific gravity of solids, typically between *2.40* and *2.90*

## 4.9 STATE PARAMETER (ψ)

The state parameter, *ψ* is defined as the difference between the current void ratio, *e* and the void ratio at critical state $e_{cs}$, at the same mean effective stress for granular soils.

The problem of evaluating the state parameter from CPTU response is complex and depends on several soil parameters, including shear stiffness, shear strength, compressibility and plastic hardening. (*Jefferies and Been, 2006*)

In this report, the state parameter is calculated based on five methods as follows:

1) Been et al. (1987)

$$\psi = -\frac{ln\left(\frac{Q_p}{k}\right)}{m}$$

and

$$Q_p = \left(\frac{3Q_t}{1+2K_0}\right)$$

where

$Q_t$ is the normalized cone resistance
$K_0$ is the coefficient of lateral earth pressure

2) Shuttle and Jefferies (1998)

$$\psi = -\frac{ln\left(\frac{Q_p}{k}\right)}{m}$$

where

$$k = \Big(\big(3.79 + 1.12ln(I_r)\big)\big(1 + 1.06(M - 1.25)\big)\big(1 - 0.30(N - 0.2)\big)(H/1000)^{0.326}\big(-1.55(\lambda - 0.01)\big)\Big)^{1.45}$$

$$m = 1.45\big(1.04 + 0.46ln(I_r)\big)\big(1 - 0.4(M - 1.25)\big)\big(1 - 0.30(N - 0.2)\big)(H/100)^{0.15}\big(1 - 2.21(\lambda - 0.01)\big)$$

where

$Q_t$ is the normalised cone resistance
$I_r$ is rigidity index
$K_0$ is the coefficient of lateral earth pressure
M is critical state ratio
N is dilation parameter
H is plastic hardening modulus;
λ is slope *CSL* line

3) Shuttle and Jefferies (1998)

The state parameter calculated according this third method is similar to state parameter calculated as presented in the second method, except for the rigidity index that is calculated as follows:

$$I_r = I_{r100}\left(\frac{P_a}{\sigma'_{v0}}\right)^{0.5}$$

where

| | |
|---|---|
| $I_{r100}$ | is rigidity index in reference pressure |
| $P_a$ | is the reference pressure equal to 100 kPa |
| $\sigma'_{v0}$ | is effective vertical overburden stress |

4) Plewes (1992)

$$\psi = -\frac{ln\left(\frac{Q_p/(1-B_q)}{k'}\right)}{m'}$$

where

$$k' = M\left(3 + \frac{0.85}{\lambda}\right)$$
$$m' = 11.9 - 13.3\lambda$$
$$\lambda = \frac{F_r}{10}$$

where

| | |
|---|---|
| $Q_t$ | is the normalised cone resistance |
| $B_q$ | is pore pressure ratio |
| $K_0$ | is the coefficient of lateral earth pressure |
| $F_R$ | is normalised friction ratio |
| M | is critical state ration |

5) Been and Jefferies (1992)

$$\psi = -\frac{ln\left(\frac{Q_p/(1-B_q)}{k'}\right)}{m'}$$

where

$$k' = M\left(3 + \frac{0.85}{\lambda}\right)$$
$$m' = 11.9 - 13.3\lambda$$
$$\lambda = \frac{1}{34 - 10I_C}$$

For high-risk projects a detailed interpretation of CPTU results using laboratory results and numerical modelling can be appropriate (e.g. *Shuttle* and *Cunning*, *2007*), although soil variability can complicate the interpretation procedure. For low risk projects and in the initial screening for high-risk projects there is a need for a simple estimate of soil state.

*Plewes et al (1991)* provided a mean to estimate soil state using the normalised soil behaviour type, *SBTn* chart suggested by *Jefferies and Davies (1991)*. *Jefferies and Been (2006)* suggested that soils with a state parameter less than *-0.05* are dilative at large strains.

## 4.10 IN SITU STRESS RATIO ($K_0$)

There are various estimations to determine in situ stress ratio, $K_0$, from CPTU in fine grained soils. In this report the methods suggested by *Mayne (2007)* and *Kulhawy and Mayne (1990)* are used, as given below:

1) Mayne (2007)

$$K_0 = (1 - sin\varphi')OCR^{sin\varphi'}$$

$$Max\ K_0 = K_p = \frac{(1 + sin\varphi')}{(1 - sin\varphi')}$$

$$K_0 = 0.192(\frac{q_t}{\sigma_{atm}})^{0.22}(\frac{\sigma_{atm}}{\sigma_{v0}})^{0.22}OCR^{0.27}$$

where

OCR is the overconsolidation ratio, calculated as presented in session *4.12*

2) Kulhawy and Mayne (1990)

$$K_0 = 0.1(\frac{q_t - \sigma_{v0}}{\sigma_{v0}'})$$

These approaches are generally limited to mechanically overconsolidated, fine grained soils. As considerable scatter exits in the database used for these correlations, in moderate to high risk projects further tests should be performed and these correlations must be considered only as a guide.

## 4.11 OVERCONSOLIDATION RATIO (OCR)

Overconsolidation ratio, *OCR* is defined as the ratio of the maximum past effective consolidation stress and the present effective overburden stress:

$$OCR = \frac{\sigma'_p}{\sigma'_{v0}}$$

This definition is appropriate for mechanically overconsolidated soils, where the only change has been the removal of overburden stress. For cemented and aged soils, the *OCR* may represent the ratio of the yield stress and the present effective overburden stress.

In this report $\sigma'_p$ is calculated based on six methods as presented below:

1) Mayne (1995)

$$\sigma'_p = 0.33(q_t - \sigma_{v0})$$

2) Chen and Mayne (1996)

$$\sigma'_p = 0.53\Delta u$$

3) Mayne (2005)

$$\sigma'_p = 0.6(q_t - u_2)$$

4) Robertson (2009)

$$\sigma'_p = 0.25(Q_t^{1.25} - \sigma'_{v0})$$

5) Mayne (2005)

$$\sigma'_p = \left[\frac{0.192\left(\frac{q_t}{\sigma_{atm}}\right)^{0.125}}{(1 - sin\varphi')\left(\frac{\sigma'_{v0}}{\sigma_{atm}}\right)^{0.31}}\right]^{\left(\frac{1}{sin\varphi' - 0.27}\right)}\sigma'_{v0}$$

6) Mayne (2007)

$$\sigma'_p = 0.101\sigma_{atm}^{0.102}(G_0)^{0.478}\sigma'^{0.420}_{v0}$$

For larger, moderate to high risk projects, where additional high-quality field and laboratory data may be available, site specific correlations should be developed based in consistent and relevant values of *OCR*.

## 4.12 SMALL STRAIN YOUNG'S MODULUS ($E_0$)

Deriving small strain undrained Young's modulus, $E_0$, from CPTU is difficult. There is insufficient data available to make a direct correlation and it is recommended that $c_u$ should be derived, then $E_U$ estimated as a rough order of value from one of the available correlations between $E_U$ and $c_u$ (*Meigh, 1987*).

In this report the small strain Young's modulus is derived as follows:

1) Defined from elastic theory:

$$E_0 = 2(1 + \nu)G_0$$

where

v is the Poisson ratio, equal to *0.2*

$G_0$ is the small strain shear modulus calculated by the formula given below:

$$G_0 = 1634\left(\frac{q_c}{\sqrt{\sigma'_{v0}}}\right)^{-0.75} q_c$$

2) Calculated based on the degree of loading, $q_c$, effective stress and reduction factor

$$E_0 = \alpha q_c$$

where

α is calculated from degree of loading, $q_c$, effective stress and reduction factor, given in *Figure 4.2*

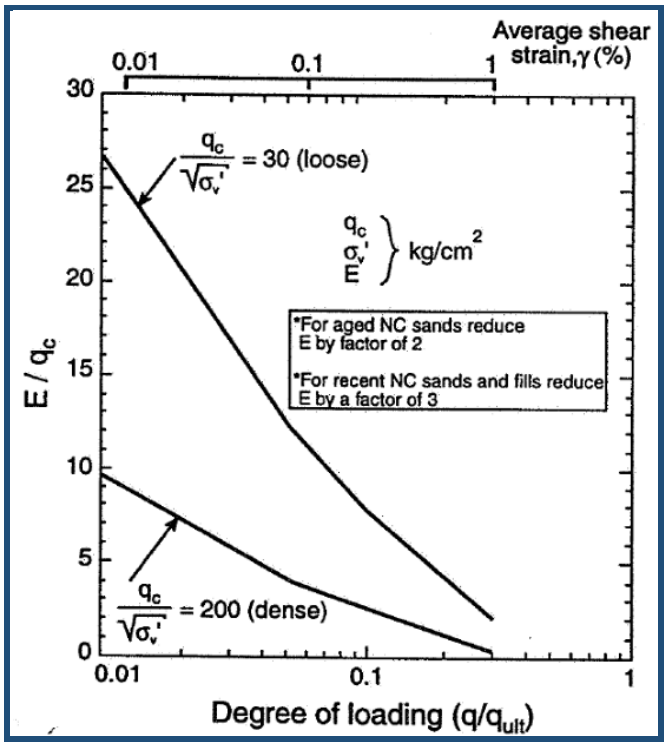



***Figure 4.2:*** *Estimation of equivalent Young's modulus for sand based on degree of loading (Robertson, 1990)*

## 4.13 CONSTRAINED MODULUS (M)

Constrained Modulus, *M*, can be estimated by CPTU using the following empirical relationship:

$$M = \alpha_M (q_t - \sigma_{v0})$$

where

$\alpha_M$ varies with soil plasticity and natural water content for a wide range of fine-grained soils and organic soils. *Meigh (1987)* suggested that $\alpha_M$ lies in the range of *2 to 8*, whereas *Mayne (2001)* suggested the value of *5*.

*Robertson (2001)* suggested that $\alpha_M$ varies with $Q_t$, such that:

When $I_c > 2.2$ (fine grained soils) use: $\alpha_M = Q_t$ when $Q_t < 14$

$\alpha_M = 14$ when $Q_t > 14$

When $I_c < 2.2$ (coarse grained soils) use: $\alpha_M = 0.0188[10^{(0.55I_c+1.68)}]$

In this report the Constrained Modulus, *M*, is calculated after *Kulhawy and Mayne (1990)* using the equation below:

$$M = 8.25(q_t - \sigma_{v0})$$

Also, an alternative method is included in the results, developed by *Burns and Mayne (2002)* using the following relationship:

$$M = 0.02G_0$$

### *4.13.1 Equivalent Oedometer Coefficient of Compressibility (mv)*

Equivalent oedometer coefficient of compressibility, $m_v$ can be calculated directly by the Constrained Modulus, *M*, as follows:

$$m_v = \frac{1}{M}$$

## 4.14 SMALL STRAIN SHEAR MODULUS ($G_0$)

Elastic theory states that the small strain shear modulus, $G_0$, can be determined from the following equation:

$$G_0 = \rho v_s^2$$

where

ρ is the mass density of the soil
$v_s$ is the shear wave velocity

In this report the small strain shear modulus, $G_0$, will be presented calculated by the two methods shown below, developed by *Rix and Stoke (1992)* and *BE, UB Rix* and *Stoke (1992)*, respectively.

$$G_0 = 1634\left(\frac{q_c}{\sqrt{\sigma'_{v0}}}\right)^{-0.75} q_c$$

$$G_0 = \frac{\gamma_{bulk}}{g} v_s^2$$

where

$q_c$ is the net cone tip resistance in kPa
$\sigma'_{v0}$ is the effective initial vertical stress in kPa
$\gamma_{bulk}$ is the bulk density of the soil
$v_s$ is the shear wave velocity

This correlation of $G_0$ is applicable to all soil types.

### 4.14.1 Mass Density of Soil (ρ)

Mass density of soil, $\rho$, is defined as:

$$\rho = \frac{\gamma}{g}$$

where

γ is the elastic stiffness of the soils at shear strain less than $10^{-4}$ %, $\gamma < 10^{-4}$ %.

## 4.15 HYDRAULIC CONDUCTIVITY (k)

An approximate estimate of soil hydraulic conductivity or coefficient of permeability, *k*, can be made from an estimate of soil behaviour type using the CPTU *SBT chart* as presented in the table below:

| SBT Zone | SBT | Range of k (m/s) | $SBT_n$ $I_c$ |
|---|---|---|---|
| 1 | Sensitive fine grained | $3x10^{-10}$ to $3x10^{-8}$ | NA |
| 2 | Organic soils-clay | $1x10^{-10}$ to $1x10^{-8}$ | $I_c$>3.60 |
| 3 | Clay | $1x10^{-10}$ to $1x10^{-9}$ | 2.95<$I_c$<3.60 |
| 4 | Silt Mixture | $3x10^{-9}$ to $1x10^{-7}$ | 2.60<$I_c$<2.95 |
| 5 | Sand Mixture | $1x10^{-7}$ to $1x10^{-5}$ | 2.05<$I_c$<2.60 |
| 6 | Sand | $1x10^{-5}$ to $1x10^{-3}$ | 1.31<$I_c$<2.05 |
| 7 | Dense sand to gravelly sand | $1x10^{-3}$ to 1 | $I_c$<1.31 |
| 8 | *Very dense/ stiff soil | $1x10^{-8}$ to $1x10^{-3}$ | NA |
| 9 | *Very stiff fine grained soil | $1x10^{-9}$ to $1x10^{-7}$ | NA |

**Overconsolidated and/ or cemented*

***Table 4.2:*** *Estimated soils' permeability (k) based on the CPTU SBT chart by Robertson (2009)*

The average relationship between soils' permeability, *k* and $SBT_n$ $I_c$, shown in *Table 4.2*, can be represented by the following relationships:

When $1.0 < I_c \leq 3.27$ $\quad k = 10^{(0.952-3.04I_c)}$

When $3.27 < I_c \leq 4.0$ $\quad k = 10^{(-4.52-1.37I_c)}$

In this report, the hydraulic conductivity is estimated as a function of soil types from 2 CPTU classification charts, *Robertson et al. (1986)* and *Robertson et al. (1990)*, considering both minimum and maximum values.

The hydraulic conductivity (coefficient of permeability), *k*, values (minimum and maximum), defined after soils' behaviour type by *Robertson et al. (1986)* are presented in *Table 4.3*, below:

| SBT Zone | Soil Behaviour Type (SBT) | Range of hydraulic conductivity, *k (m/s)* |
|---|---|---|
| 1 | Sensitive fine grained | $3x10^{-9}$ to $3x10^{-8}$ |
| 2 | Organic soils | $1x10^{-8}$ to $1x10^{-6}$ |
| 3 | Clay | $1x10^{-10}$ to $1x10^{-9}$ |
| 4 | Silty CLAY to CLAY | $3x10^{-9}$ to $1x10^{-8}$ |
| 5 | Clayey SILT to silty CLAY | $1x10^{-8}$ to $1x10^{-7}$ |
| 6 | Sandy SILT to clayey SILT | $1x10^{-7}$ to $1x10^{-6}$ |
| 7 | Silty SAND to sandy SILT | $1x10^{-5}$ to $1x10^{-6}$ |
| 8 | SAND to silty SAND | $1x10^{-5}$ to $1x10^{-4}$ |
| 9 | SAND | $1x10^{-4}$ to $1x10^{-3}$ |
| 10 | Gravelly SAND to SAND | $1x10^{-3}$ to 1 |
| 11 | Very stiff fine grained | $1x10^{-8}$ to $1x10^{-6}$ |
| 12 | SAND to clayey SAND | $3x10^{-7}$ to $3x10^{-4}$ |

***Table 4.3:*** *Estimated soil permeability (k) based on SBT chart by Robertson et al. (1986)*

The hydraulic conductivity (coefficient of permeability), *k* values (min and max), defined after soils' behaviour type by *Robertson et al. (1990)* are presented in *Table 4.4*, below:

| SBT Zone | Soil Behaviour Type (SBT) | Range of hydraulic conductivity, *k (m/s)* |
|---|---|---|
| 1 | Sensitive fine grained | $3x10^{-9}$ to $3x10^{-8}$ |
| 2 | Organic soils | $1x10^{-8}$ to $1x10^{-6}$ |
| 3 | Clay | $1x10^{-10}$ to $1x10^{-9}$ |
| 4 | Silt Mixture | $3x10^{-9}$ to $1x10^{-7}$ |
| 5 | Sand Mixture | $1x10^{-7}$ to $1x10^{-5}$ |
| 6 | Sand | $1x10^{-5}$ to $1x10^{-3}$ |
| 7 | Gravelly sands to dense sands | $1x10^{-3}$ to 1 |
| 8 | Very stiff sand to clayey sand | $1x10^{-8}$ to $1x10^{-6}$ |
| 9 | Very stiff fine grained | $1x10^{-8}$ to $1x10^{-6}$ |

***Table 4.4:*** *Estimated soils' permeability (k) based on SBT chart by Robertson et al. (1990).*

## 4.16. Rigidity Index (IR)

The rigidity index, $I_R$, for fine grained soils is defined using the following formula, developed by *Mayne (2001)*:

$$I_R = \exp\left[\left(\frac{1.5}{M} + 2.925\right)\left(\frac{q_t - \sigma_{v0}}{q_t - u_2}\right) - 2.925\right.$$

where

M is the Cam-Clay constant, slope of the critical state line defined as:

$$M = \frac{6sin\varphi'}{3 - sin\varphi'}$$

where

φ' is the internal friction angle.

The second method used to define the rigidity index, $I_R$, for fine grained soils is based on plasticity index and overconsolidation ratio, *OCR* and calculated after the relationship developed by *Keaveny and Mitchell (1986)* as follows:

$$I_R = \frac{\exp\left(0.0435(137 - PI)\right.}{[1 + \ln\{1 + 0.385(OCR - 1)^{3.2}\}]^{0.8}}$$

where

PI is the plasticity index of the soil, equal to 20.

OCR is the overconsolidation ratio of the soil

# 5.0 CHALK

In order to provide an estimate of the Chalk Grade Classification as defined by Ward et al. (1968) and Wakeling (1969) a modified correlation originally derived by Power (1982) has been used. This is presented in figure 5.1 and has been used to give the degree of weathering quoted on the soil type estimates on the cone penetration graphs.

It should be noted that the correlation is approximate and that Chalk at different locations can differ from that described by Ward et al. at one particular site (Mundford in Norfolk). The descriptions in figure 5.1 are typical, and do not necessarily relate to this site. Simplified descriptions are therefore presented on the logs. It should also be noted that the Chalk grade classification was derived to describe the chalk mass. Localised variations in the cone resistance do not necessarily represent changes in Classification. Peaks may represent flints or local indurated zones.

| GRADE | TYPICAL BRIEF DESCRIPTION (After Wakeling,1969) | FRICTION RATIO (%) | CONEEND RESISTANCE(MPa) |
|---|---|---|---|
| | | (modifiedfromPower,1982) | |
| 6 | Extremely soft structureless CHALK containing small lumps of intact chalk. | - | Below 5 |
| 5 | Structureless remoulded CHALK containing lumps of intact chalk. | 0.75 – 1.00 | 5-10 |
| 4 | Rubbly partly-weathered CHALK with bedding and jointing. Joints10-60mm apart and open to 20mm and often infilled with soft remoulded chalk and fragments. | 1.00 – 1.25 | 10-15 |
| 3 | Rubbly to blocky unweathered CHALK. Joints 60-200mm apart and open to 20mm and often infilled with fragments. | 1.25 – 1.50 | 15-20 |
| 2 | Blocky medium-hard CHALK. Joints more than 200mm apart and closed. | 1.50 – 2.00 | More than 20 |
| 1 | As for grade2 but hard and brittle. | No penetration- | No penetration |

**Figure 5.1:**Chalk classification table modified from Power (1992).

# 6.0 CPTU RESULTS APPLICATIONS

## 6.1 SOIL PROFILING AND APPLICATIONS IN GEOTECHNICAL DESIGN

### *6.1.1 Soil Behaviour Type*

The major applications of CPTU are on *soil behaviour type and soil profiling*. Typically, the cone resistance, $q_c$ is high in sands and low in clays, and the friction ratio, $R_f = f_s/q_t$ is low in sands and high in clays. The CPTU cannot be expected to provide accurate predictions of soil type based on *physical characteristics,* e.g. *grain size distribution*, but provides a guide to the *mechanical characteristics*, including: *strength*, *stiffness*, and *compressibility* of the soils, or the *soil behaviour type*, *SBT*.

The most commonly used CPTU soil behaviour type chart, suggested by *Robertson et al. (1986)* uses the basic CPTU measured parameters of cone resistance, $q_c$ and friction ratio, $R_f$. The chart is global in nature and can provide reasonable predictions of soil behaviour type for CPTU testing. The expected overlap in some zones is modified in the interpretations of this report somewhat based on previous experience or local knowledge of the site.

Since both the penetration resistance and sleeve resistance increase with depth due to the increase in effective overburden stress, the CPTU data requires normalization for overburden stress for very shallow and/or very deep tests. A popular CPTU soil behaviour chart based on normalized CPTU data is firstly proposed by *Robertson (1990)*. The chart identifies general trends in ground response, such as: *increasing soil density*, *OCR*, *age* and *cementation* for granular soils, and *increasing stress history*, *OCR* and *soil sensitivity* for cohesive soils.

A more general normalized CPTU *SBT* chart, using large strain *soil behaviour* descriptions, proposed by *Robertson (2012)* is shown in *Figure 6.1*.

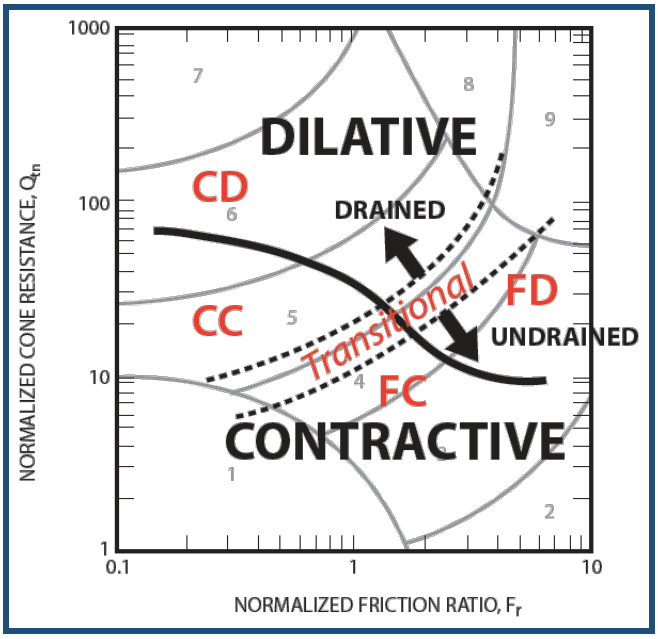



**Figure 6.1:** Normalized CPTU Soil Behaviour Type ($SBT_n$) chart, $Q_{tn}$-$F_R$ using general large strain soil behaviour description (Robertson, 2012).

*

| | |
|---|---|
| CD | is coarse grained dilative soil-predominately drained CPTU |
| CC | is coarse grained contractive soil-predominately drained CPTU |
| FD | is fine grained dilative soil-predominately undrained CPTU |
| FC | is fine grained contractive soil-predominately undrained CPTU |

### *6.1.2 Soil Profiling*

CPTU is an excellent test for soil profiling. The continuous monitoring of pore pressure during the cone penetration improves the soil stratigraphy descriptions. The pore pressure develops in response to the soil type being penetrated in the area where the pore pressure element is located. Soft, firm or stiff clays and contractive silts can show very high pore pressure. Very stiff overconsolidated clays and dilative silts can give very low or negative pore pressures same as very dense silty sands.

The thin layers of sand, or silt in a thick layer of clay, or thin layers of clay or silt in a thick layer of sand are easily distinguished during a CPTU test, which will give a response time sufficiently fast to observe pore pressure changes even in the very thin layers of soils (< *5mm*), depending on the response of soil to the advancing of cone.

The sandy soils tend to produce high cone resistance and low friction ratio, whereas soft clayey soils tend to produce low cone resistance and high friction ratio. Organic soils such as peat tend to have very low cone resistance and very high friction ratio. Soils with high horizontal stresses (*high OCR*) tend to have higher cone resistance and friction ratio.

CPTU is an excellent tool to classify the soils based on their behaviour type, and not based on grain size distribution.

The measurement of sleeve friction, $f_s$ is often less reliable than the measurement of cone resistance, $q_c$ (*Lunne et al., 1986*), but to overpass these problems pore pressure parameter ratio, $B_q$, and the classification charts based on it.

For more reliability in soil profiling, the soil interpretations in this report are carried out based on three parameters measured on site, cone resistance, sleeve friction and pore pressure and three derived geotechnical parameters soil behaviour type index for all soils, undrained shear strength for cohesive soils and relative density for granular soils.

Generally, soils that fall in zones *8*, *9* and *10* of *Robertson et al. (1986)* chart (*6* and *7* of *Robertson (1990)* chart) represent approximately drained penetration, whereas, soils in zones 1, 2, 3, 4, 5 and 6 of *Robertson et al. (1986)* chart (1, 2, 3 and 4 of *Robertson (1990)* chart) represent approximately undrained penetration. Soils in zones 7, 11 and 12 of *Robertson et al. (1986)* (5, 8 and 9 of *Robertson (1990)* chart) may represent partially drained penetration. The classification is often influenced by changes in *stress history*, *in situ stresses*, *sensitivity*, *stiffness*, *mineralogy*, etc. An advantage of pore pressure measurements during cone penetration is the ability to evaluate drainage conditions more directly. (*Lunne et al., 1997*)

The information about the rate and manner of excess pore pressures during the dissipations significantly helps the accurate classification in the corresponding depths of dissipation tests. In very stiff, overconsolidated clayey soils, the pore pressure behind the cone is very low and sometimes negative of the equilibrium pore pressure, $u_0$, whereas the pore pressure on the face of the cone is very large due to the large increase in normal stresses created by the cone penetration. When penetration is stopped in overconsolidated clays, pore pressure recorded behind the cone may initially increase before decreasing to the equilibrium pore pressure. The rise is caused by local equalization of the high pore pressure gradient around the cone.

Cone penetration in fine grained soils, such as clays and silts, is generally undrained. Cone penetration tests under undrained conditions generate high pore pressure and this reading is extremely useful, because it affects both cone resistance and sleeve friction measurements. These parameters should be corrected using the measured pore pressure.

CPTU in coarse gained soils, such as sandy or gravelly soils is generally drained. In these conditions there is no excess pore pressure generated as a result of cone penetration. Relative density has been used as the main parameter for description of sandy deposits.

### *6.1.3 Applications in geotechnical design*

CPTU measured parameters are used to derive geotechnical parameters, which are the input in several geotechnical analyses. An alternate approach is to directly apply CPTU results to the geotechnical calculations.

As a guide, *Table 6.1* shows a summary of the applicability of CPTU results for direct design applications. The ratings shown in the table have been assigned based on current experience and represent a qualitative evaluation of the confidence level assessed to each design problem and general soil type. Details of ground conditions and project requirements can influence these ratings.

| Type of soil | Pile Design | Bearing Capacity | Settlement | Compaction Control | Liquefaction |
|---|---|---|---|---|---|
| Sand | A-B | A-B | B-C | A-B | A-B |
| Clay | A-B | A-B | B-C | C-D | A-B |
| Intermediate Soils | A-B | B-C | B-C | B-C | A-B |

***Table 6.1:*** *Perceived applicability of CPTU for various direct design problems.*

A is high
B is high to moderate
C is moderate
D is moderate to low

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# APPENDIX A

## APPENDIX A1 – Project Summary Sheet

*Piezocone Tests Summary Sheet*

| HOLE ID | Final Depth (m) | Date of Test | Cone Used | Test Remarks |
|---|---|---|---|---|
| CPT101 | 30.18 | 29/03/2021 | DP15-CFPTxy.71069 | Test refused on total pressure. |
| CPT103 | 7.93 | 29/03/2021 | DP15-CFPTxy.71069 | Test refused on total pressure. |
| CPT104 | 28.24 | 29/03/2021 | DP15-CFPTxy.71069 | Test refused on total pressure. |
| CPT105 | 26.20 | 29/03/2021 | DP15-CFPTxy.71069 | Test refused on total pressure. |
| CPT106 | 8.43 | 30/03/2021 | DP15-CFPTxy.71069 | Test refused on total pressure. |
| CPT107 | 2.37 | 30/03/2021 | DP15-CFPTxy.71069 | Test refused on inclination. |
| CPT107A | 3.97 | 30/03/2021 | DP15-CFPTxy.71069 | Test refused on inclination. |
| CPT107B | 8.31 | 30/03/2021 | DP15-CFPTxy.71069 | Test refused on inclination. |
| CPT107C | 29.96 | 30/03/2021 | DP15-CFPTxy.71069 | Test refused on total pressure. |
| CPT108 | 14.40 | 30/03/2021 | DP15-CFPTxy.71069 | Test refused on total pressure. |
| CPT108A | 30.83 | 30/03/2021 | DP15-CFPTxy.71069 | Test refused on total pressure. |
| CPT109 | 28.23 | 30/03/2021 | DP15-CFPTxy.71069 | Test refused on total pressure. |
| CPT110 | 8.54 | 30/03/2021 | DP15-CFPTxy.71069 | Test refused on total pressure. |
| CPT111 | 27.94 | 29/03/2021 | DP15-CFPTxy.71069 | Test refused on total pressure. |
| CPT112 | 29.80 | 29/03/2021 | DP15-CFPTxy.71069 | Test refused on total pressure. |
| CPT113 | 30.91 | 29/03/2021 | DP15-CFPTxy.71069 | Test refused on total pressure. |

*Piezocone Tests Coordinates*

| HOLE ID | Eastings | Northings | Elevation |
|---|---|---|---|
| CPT101 | 469953.91 | 105598.54 | 10.79 |
| CPT103 | 469997.84 | 105696.13 | 10.58 |
| CPT104 | 470090.23 | 105680.48 | 10.21 |
| CPT105 | 470102.24 | 105723.25 | 10.14 |
| CPT106 | 470193.20 | 105762.04 | 13.16 |
| CPT107 | 470238.57 | 105760.06 | 11.47 |
| CPT107A | 470238.57 | 105760.06 | 11.47 |
| CPT107B | 470238.57 | 105760.06 | 11.47 |
| CPT107C | 470238.57 | 105760.06 | 11.47 |
| CPT108 | 470233.67 | 105707.55 | 13.67 |
| CPT108A | 470233.67 | 105707.55 | 13.67 |
| CPT109 | 470148.77 | 105718.34 | 9.85 |
| CPT110 | 470271.90 | 105676.74 | 10.53 |
| CPT111 | 470097.54 | 105621.35 | 9.96 |
| CPT112 | 470029.29 | 105594.99 | 10.20 |
| CPT113 | 470150.69 | 105631.79 | 9.53 |

## APPENDIX A2 – CPT Rig Datasheet

# RIGS

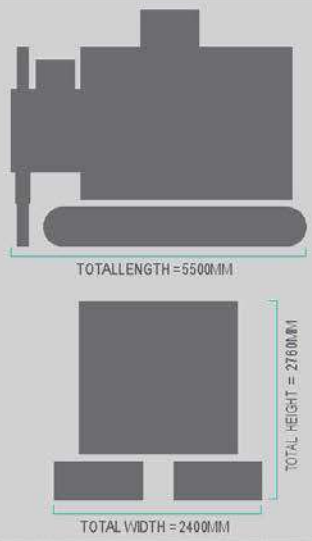
### 20 TONNE CPT TRACK MOUNTED RIG (CPT012 and CPT022)

CPT012 (Bob) and CPT022 (Vic) are 20 Tonne tracked crawler rigs. Their relatively high weight serves as a counterweight to provide the required penetrative force when testing. This machine is ideal for soft, boggy sites where access can be tricky. Fitted with three levelling jacks, the crawlers can be levelled exactly horizontally and furthermore, it assures stability during testing. All movements of the rig are driven hydraulically using a remote control thus allowing 100% accuracy over positions.

### CPT RIG DETAILS

| | |
|---|---|
| DRIVE SYSTEM | TRACKED RIG |
| TOTAL WEIGHT | 20 TONNES |
| GROUND BEARING PRESSURE | 36KPA |
| CPT RAM THRUST CAPACITY | 20 TONNES |
| MAXIMUM PENETRATION | 20-40M DEPENDING ONTHE GROUND CONDITIONS. |
| PERFORMANCE RATES | 100-150M OF TESTING A DAY, DEPENDING ON ACCESS TO POSITIONS. |
| TYPICAL SITES FOR THIS RIG | SOFT, BOGGY SITES. LOW GROUND BEARING PRESSURE |

### CPT RIG DIMENSIONS













IN SITU SITE INVESTIGATION INSITUSI.COM

## APPENDIX A3 – Cone Datasheet

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*Manual: Electric CPT Cone P10-CFPTxy and P15CFPTxy (PIEZOCONE)*

All cones are temperature compensated and provided with a built-in precision strain-gauge amplifier.
The cone characteristics and available measurement ranges are listed below.

| 2 Technical Specifications | P10CFPTxy | P15CFPTxy |
|---|---|---|
| Overall length | : 254 mm | 307 mm |
| Section area of conical tip | : 1,000 mm² | 1,500 mm² |
| Apex angle of conical tip | : 60° | 60° |
| Surface of friction sleeve | : 15,000 mm² | 22,500 mm² |
| Weight | : 1,480 gr | 2,250 gr |
| Power supply | : 5 Vdc | 5 Vdc |
| Analogue signal output | : 0 – 5 Vdc | 0 – 5 Vdc |
| Digital signal output | : RS-485 | RS-485 |
| Screw thread | : Female GHD-36 | Female GHD-44 |
| Connector | : Gold-plated 10 pins | Gold-plated 10 pins |
| Working temperature | : 0 till 60 °C | 0 till 60 °C |
| Storage temperature | : -40 till 85 °C | -40 till 85 °C |
| **Cone Resistance ($q_C$)** | | |
| Available measuring ranges *) | : 0 – 100 MPa | 0 – 100 MPa |
| Accuracy | : 0.25% of the full scale (FS) | 0.25% of the full scale |
| Maximum allowable load | : 150% of the measuring range | 150% of the range |
| Cone area factor | : 0.71 | 0.75 |
| **Local Sleeve Friction ($f_S$) + Cone Resistance ($q_C$)** | | |
| Available measuring ranges *) | : 0 – 100 kN | 0 – 150 kN |
| Accuracy local sleeve friction | : 0.50% of the full scale (FS) | 0.50% of the full scale |
| Maximum allowable load | : 150% of the measuring range | 150% of the range |
| Sleeve area ratio | : 1.0 | 1.0 |
| **Inclination** | **(biaxial)** | |
| Available measuring range | : 0 – 25° (biaxial) | 0 – 25° (biaxial) |
| Accuracy | : < 0,5° | < 0,5° |
| **Pore Pressure (p)** | | |
| Available measuring ranges *) | : 0 – 5 MPa (standard) | 0 – 5 MPa |
| Accuracy | : 0.5% of the full scale (FS) | 0.5% of the full scale |
| **Temperature (T)** | | |
| Available measuring ranges | : 0 – 50 °C | 0 – 50 °C |

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Information and specifications are subject to changes without prior notice.

## APPENDIX A4 – Cone Calibration Certificate

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Down to Earth

Gouda Geo-Equipment B.V.
Satellietbaan 8
2181 MH Hillegom
The Netherlands

Tel. + 31 (0)715.318.475
E-mail: info@gouda-geo.com

# Certificate of Calibration

Certificate No. CMI 20.11.3509

**Instrument**

| | | | |
|---|---|---|---|
| Instrument Type: | Electrical Subtraction Cone | Calibration Result: Certified | |
| Manufacturer: | Gouda Geo-Equipmet B.V | | |
| Model No.: | DP15-CFPTxy | Date Calibrated: | 13-11-2020 |
| Serial No.: | 71069 | Next Due Date: | 13-5-2021 |
| Cone area factor: | 0,75 | | |
| Used Calibration Procedure: GGECP004, ISO22476 | | Location: Hillegom (The Netherlands) | |

**Customer**

In Situ Site Invertigation Ltd.

**Calibration Instruments**

| | | |
|---|---|---|
| Instrument Type: CPT Logger | Instrument Type: CPT Logger | Instrument Type: Load-cell + amplifier |
| Manufacturer: Gouda Geo Equipment | Manufacturer: Gouda Geo Equipment | Manufacturer: Futek |
| Model No.: A | Model No.: A | Model No.: LCF500 + CSG110 |
| Serial No.: 3010 | Serial No.: 3129 | Serial No.: 232191 + 574077 |
| Accuracy: 0.01% + 2 Counts | Accuracy: 0.01% + 2 Counts | Accuracy: 0.1% |
| Date Calibrated: 11 September, 2020 | Date Calibrated: 2 July, 2020 | Date Calibrated: 27 July, 2020 |
| Next Due Date: 11 March, 2021 | Next Due Date: 2 January, 2021 | Next Due Date: 27 July, 2021 |
| Calibrated By: Manufacturer | Calibrated By: Manufacturer | Calibrated By: Futek |
| Traceability: CMI 20.09.3375 | Traceability: CMI 20.07.3208 | Traceability: 2007270063 |

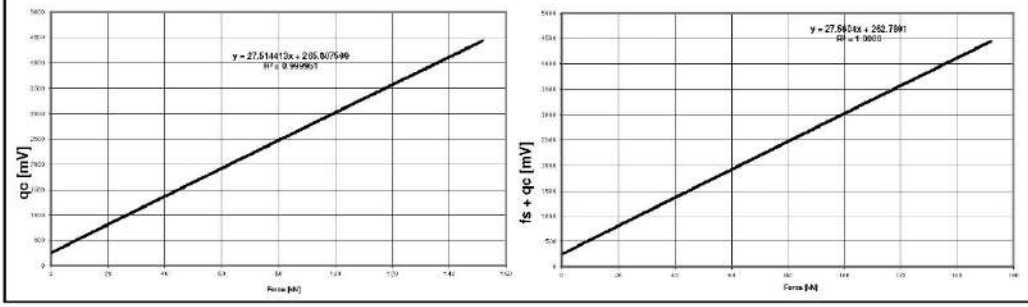
**Calibration Conditions**

Environmental conditions whilst performing the calibration: Ambient Temperal 19.9 °C; Relative Humidity: 45.2 %

Condition of Calibrated Apparatus when Received: Fair

**Measurement Parameters**

| | | | |
|---|---|---|---|
| zero value | 255 mV | zero value | 255 mV |
| Full scale | 4127 @ 150 kN | Full scale | 4134 @ 150 kN |




**Remarks**

Data "As Received" = "As Left" unless otherwise noted. Calibration data for this item was derived from one or more of the following sources: the Nederlands Meetinstituut (NMI) or other national laboratory, a natural physical constant, or a ratio technique. The data is on file at the NMI. This calibration is compliant with Gouda Geo-Equipment's internal quality system, internal calibration procedure and meets the requirements of standard ISO22476.
The Calibration Interval will vary from customer use and different conditions. All calibrations are verified at a moment in time; and confirmed within controlled temperature and humidity specified standards. Gouda Geo-Equipment is not responsible for future calibrations. Improper use of the apparatus (e.g. dropping) may cause loss of calibration.

Calibration performed by:

Vincent Vermeer
(Engineer)

Approved by:

Rogier Tijm
(Senior Engineer)

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## APPENDIX A5 – Symbol List

### *English*

| | |
|---|---|
| a | is area ratio of the cone ($= {}^{A_n}/_{A_c}$) |
| A | is area |
| $A_c$ | is projected area of the cone |
| $A_n$ | is cross sectional area of load cell or shaft |
| $A_s$ | is area of friction sleeve |
| $A_{sb}$ | is bottom end area of friction sleeve |
| $A_{st}$ | is top end area of friction sleeve |
| $B_q$ | is pore pressure parameter ($= {}^{(u_2 - u_0)}/_{(q_t - \sigma_{v0})}$) |
| $c_h$ | is horizontal coefficient of consolidation |
| $c_v$ | is vertical coefficient of consolidation |
| D | is diameter |
| $D_r$ | is relative density ($= \frac{e_{max} - e}{e_{max} - e_{min}} x100\%$) |
| e | is void ratio |
| $e_{max}$ | is maximum void ratio |
| $e_{min}$ | is minimum void ratio |
| E | is Young's modulus |
| $f_s$ | is unit sleeve friction resistance |
| $f_t$ | is sleeve friction corrected for pore pressure effects |
| $F_s$ | is total force acting on friction sleeve |
| $F_R$ | is normalized friction ratio ($= {}^{f_s}/_{(q_t - \sigma_{v0})}$) |
| FoS | is factor of safety |
| FC | is fines content |
| g | is acceleration due to gravity |
| $G_0$ | is initial or maximum shear modulus, shear stiffness |
| $I_c$ | is soil behavior type index |
| $I_r$ | is rigidity index ($= {}^{G}/_{s_u}$) |
| $I_p$ | is plasticity index |
| k | is coefficient of permeability |
| $k_h$ | is coefficient of permeability in horizontal direction |
| $k_v$ | is coefficient of permeability in vertical direction |
| $K_0$ | is coefficient of earth pressure at rest ($= {}^{\sigma'_{h0}}/_{\sigma'_{v0}}$) |
| L | is length |
| $m_v$ | is coefficient of volume change |
| M | is constrained deformation modulus |
| M7.5 | is earthquake magnitude of 7.5 Richter scale |
| N | is number of blows of SPT |
| $N_{60}$ | is SPT energy ratio |
| $N_k$ | is cone factor |
| $N_{ke}$ | is cone factor |
| $N_{kt}$ | is cone factor |
| $N_{\Delta u}$ | is cone factor |
| $p_a$ | is reference stress ($= 100\ kPa$) |
| $q_c$ | is measured cone resistance |
| $q_e$ | is effective cone resistance ($= q_t - u_2$) |
| $q_n$ | is net cone resistance ($= q_t - \sigma_{v0}$) |
| $q_t$ | is corrected cone resistance ($= q_c - (1 - a)u_2$) |
| $Q_c$ | is total force acting on the cone |
| $Q_t$ | is normalized cone resistance ($= {}^{q_t - \sigma_{v0}}/_{\sigma'_{v0}}$) |

$R_f$ is friction ratio ($= \left({}^{f_t}/_{q_t}\right) x100\%$ or alternatively $= \left({}^{f_t}/_{q_t}\right) x100\%$)
$s_u$ is undrained shear strength
$s_{ur}$ is remoulded undrained shear strength
$S_t$ is sensitivity
t is time
$t_{50}$ is time for 50% dissipation of excess pore water pressure
$T_{50}$ is time factor at $U = 50\ \%$
u is pore water pressure
$u_0$ is in situ pore pressure
$u_1$ is pore pressure measured on the cone
$u_2$ is pore pressure measured behind the cone
$u_3$ is pore pressure measured behind sleeve friction
Δu is excess pore water pressure
U is normalized excess pore pressure
$V_s$ is shear wave velocity
z is depth

### *Greek*

α is constant
α is cone roughness
β is constant
$\beta_1$ is the angle between the vertical axis and the projection of the axis of the CPTU on a vertical plane, in degrees
$\beta_2$ is the angle between the vertical axis and the projection of the axis of the CPTU on a vertical plane that is perpendicular to the plane of angle $\beta_1$, in degrees
γ is unit weight of soil
$\gamma_w$ unit weight of water
Δ is change
Δu is excess pore pressure ($= u - u_0$)
μ is Poisson's ratio
ρ is density
ψ is state parameter
σ, σ' is normal stress (total, effective)
$\sigma_h$, $\sigma_h$' is horizontal stress (total, effective)
$\sigma_v$, $\sigma_v$' is horizontal stress (total, effective)
$\sigma_{v0}$,$\sigma_{v0}$' is overburden stress (total, effective)
$\tau_{av}$ is average cyclic shear stress
$\tau_{cy}$ is cyclic shear stress
φ' is effective friction angle

## APPENDIX A6 – Abbreviations

| | |
|---|---|
| ASTM | American Society for Testing and Materials |
| CPTU | Cone Penetration Test with Pore Pressure Measurement (Piezocone Test) |
| CRR | Cyclic Resistance Ratio |
| CSR | Cyclic Stress Ratio |
| GWT | Ground Water Table |
| NC | Normally Consolidated |
| OC | Over consolidated |
| OCR | Over consolidation Ratio |
| PL | Limit Pressure |
| SDMT | Seismic Dilatometer Marchetti |
| SPT | Standard Penetration Test |
| TC | Technical Committee |

## APPENDIX A7 – Glossary

**CPT**
Cone Penetration Test.

**Cone**
The part of the cone penetrometer on which the end bearing is developed.

**Cone Penetrometer**
The assembly containing the *cone*, *friction sleeve*, any other sensors and measuring systems, as well as the connections to the *push-rods.*

**Cone resistance, $q_c$**
The total force acting on the cone, $Q_c$, divided by the projected area of the cone, $A_c$. $q_c = {Q_c}/{A_c}$

**Corrected cone resistance, $q_t$**
The *cone resistance*, $q_c$ corrected for pore water pressure effects.

**Corrected sleeve friction, $f_t$**
The *sleeve friction* corrected for pore water pressure effects on the ends of the *friction sleeve*.

**Data acquisition system**
The system used to measure and record the measurements made by the *cone penetrometer*.

**Dissipation Test**
A test when the decay of the pore water pressure is monitored during a pause in penetration.

**Filter element**
The porous element inserted into the cone penetrometer to allow transmission of the pore water pressure to the pore pressure sensor, while maintaining the correct profile of the *cone penetrometer*.

**Friction ratio, $R_f$**
The ratio, expressed as a percentage of the *sleeve friction*, $f_s$, to the *cone resistance*, $q_c$, both measured at the same depth.

**Friction reducer**
A local enlargement on the push-rod surface, placed at a distance above the cone penetrometer, and provided to reduce the friction on the *push-rods*.

**Friction sleeve**
The section of the *cone penetrometer* upon which the *sleeve friction* is measured.

**Normalized cone resistance, $Q_c$ or $Q_t$**
The *cone resistance* expressed in a non-dimensional form and taking account of stress changes *in situ*, $Q_c = {(q_c - \sigma_{v0})}/{\sigma'_{v0}}$, or when the *corrected cone resistance* is used $Q_t = {(q_t - \sigma_{v0})}/{\sigma'_{v0}}$. where $\sigma_{v0}$ and $\sigma'_{v0}$ are the total and effective vertical stress respectively.

**Net cone resistance, $q_n$**
The *corrected cone resistance* minus the vertical total stress. $q_n = q_t - \sigma_{v0}$

**Normalized friction ratio, $F_r$**
The *sleeve friction* normalized by the *net cone resistance*.

**Piezocone**
A *cone penetrometer* containing a pore pressure sensor.

**Pore pressure, *u***
The pore pressure generated during penetration and measured by a pore pressure sensor, $u_1$ when measured on the cone, $u_2$ when measured just behind the cone and $u_3$ when measured just behind the friction sleeve.

**Pore pressure ratio, $B_q$**
The *net pore pressure* normalized with respect to the *net cone resistance*.

**Push-rods**
The thick-walled tubes or rods used for advancing the cone penetrometer.

**Rig machine**
The equipment which pushes the cone penetrometer and rods into the ground.

**Sleeve friction, $f_s$**
The total frictional force acting on the *friction sleeve*, $F_s$, divided by its *surface area*, $A_s$. $f_s = {F_s}/{A_s}$