

**APPENDIX B**  
**TRIAL PIT LOGS**



# TRIAL PIT LOG

|                   |                   |                        |
|-------------------|-------------------|------------------------|
| Site:             | Barham Court Farm | TP1                    |
| Excavation Method | 360° Excavator    | Job Number<br><br>1044 |
| Location          | Date<br>14/11/17  |                        |
| Project:          |                   | Site Investigation     |
| Client:           |                   | Barham Court Farm      |

| Depth (m) | Samples/ Tests | Water Depth (m) | Field Records | Depth (m bgl) | Thickness m | Description of Strata                              | Legend |
|-----------|----------------|-----------------|---------------|---------------|-------------|----------------------------------------------------|--------|
| 0.20      | D              |                 |               | 0.20          | (0.20)      | Topsoil.                                           |        |
|           |                |                 |               | 0.50          | (0.30)      | Firm brown sandy Clay with rootlets                |        |
|           |                |                 |               | 1.0           | (0.70)      | Stiff pale brown very sandy Clay with chalk gravel |        |
|           |                |                 |               | 1.20          |             | Base of Trial Pit                                  |        |
|           |                |                 |               | 1.50          |             |                                                    |        |
|           |                |                 |               | 2.0           |             |                                                    |        |
|           |                |                 |               | 3.0           |             |                                                    |        |

|      |                                                                                                     |              |               |
|------|-----------------------------------------------------------------------------------------------------|--------------|---------------|
| Plan | Remarks                                                                                             |              |               |
|      | No groundwater encountered<br>Excavation terminated at 1.2m following discovery of 150mm sewer pipe |              |               |
|      | Scale<br>1:25                                                                                       | Logged<br>KB | Checked<br>PB |



# TRIAL PIT LOG

Site: Barham Court Farm

TP2

Excavation Method  
360° Excavator

Ground Level

Project: Site Investigation

Job Number

Location

Date  
14/11/17

Client: Barham Court Farm

1044

| Depth (m) | Samples/ Tests | Water Depth (m) | Field Records | Depth (m bgl) | Thickness m | Description of Strata                                                                                                                           | Legend |
|-----------|----------------|-----------------|---------------|---------------|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| 0.20      | D              |                 |               | 0.15          | (0.15)      | Concrete                                                                                                                                        |        |
| 0.80      | D              |                 |               | 0.50          |             | Structureless Chalk composed of compact pale brown gravelly sandy Silt. Gravel is subangular to subrounded, very weak medium density (Grade Dm) |        |
| 1.80      | D              |                 |               | 1.0           | (1.05)      |                                                                                                                                                 |        |
|           |                |                 |               | 1.20          |             |                                                                                                                                                 |        |
|           |                |                 |               | 1.80          | (0.60)      | Structureless Chalk composed of slightly sandy subangular Gravel. Gravel is very weak, low density. (Grade Dc)                                  |        |
|           |                |                 |               | 2.0           |             | Base of Trial Pit                                                                                                                               |        |
|           |                |                 |               | 3.0           |             |                                                                                                                                                 |        |

Plan

Remarks

No groundwater encountered  
Concrete hardstanding broken out

Scale  
1:25

Logged  
KB

Checked  
PB



# TRIAL PIT LOG

Site: Barham Court Farm

TP3

Excavation Method  
360° Excavator

Ground Level

Project: Site Investigation

Job Number

Location

Date  
14/11/17

Client: Barham Court Farm

1044

| Depth (m) | Samples/ Tests | Water Depth (m) | Field Records | Depth (m bgl)                      | Thickness m | Description of Strata                                                                                                                           | Legend |
|-----------|----------------|-----------------|---------------|------------------------------------|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| 0.20      | D              |                 |               | 0.20                               | (0.20)      | Topsoil                                                                                                                                         |        |
| 0.80      | D              |                 |               | 0.50<br>1.0                        | (1.40)      | Firm to stiff brown mottled orange brown slightly gravelly Clay. Gravel is angular flint and chalk                                              |        |
| 2.00      | D              |                 |               | 1.50<br>1.60<br>2.0<br>2.20<br>3.0 | (0.60)      | Structureless Chalk composed of compact pale brown gravelly sandy Silt. Gravel is subangular to subrounded, very weak medium density (Grade Dm) |        |
|           |                |                 |               |                                    |             | Base of Trial Pit                                                                                                                               |        |

Plan

Remarks

No groundwater encountered

Scale

1:25

Logged

KB

Checked

PB



# TRIAL PIT LOG

Site: Barham Court Farm

TP4

Excavation Method  
360° Excavator

Ground Level

Project: Site Investigation

Job Number

Location

Date  
14/11/17

Client: Barham Court Farm

1044

| Depth (m) | Samples/ Tests | Water Depth (m) | Field Records | Depth (m bgl) | Thickness m | Description of Strata                                                                                                              | Legend |
|-----------|----------------|-----------------|---------------|---------------|-------------|------------------------------------------------------------------------------------------------------------------------------------|--------|
| 0.30      | D              |                 |               | 0.15          | (0.15)      | Concrete                                                                                                                           |        |
|           |                |                 |               | 0.50          | (0.65)      | Stiff pale brown Clay intermixed with chalk and flint gravel                                                                       |        |
| 1.20      | D              |                 |               | 0.80          | (0.80)      | Structureless Chalk composed of slightly sandy subangular Gravel. Gravel is very weak, low density, light brown stained (Grade Dc) |        |
|           |                |                 |               | 1.0           |             |                                                                                                                                    |        |
|           |                |                 |               | 1.50          |             |                                                                                                                                    |        |
|           |                |                 |               | 1.60          |             |                                                                                                                                    |        |
|           |                |                 |               | 2.0           |             |                                                                                                                                    |        |
|           |                |                 |               | 3.0           |             |                                                                                                                                    |        |
|           |                |                 |               |               |             | Base of Trial Pit                                                                                                                  |        |

Plan

Remarks

No groundwater encountered

Scale  
1:25

Logged  
KB

Checked  
PB



# TRIAL PIT LOG

|                   |                             |            |
|-------------------|-----------------------------|------------|
| Site:             | Barham Court Farm           | TP5        |
| Excavation Method | 360° Excavator              | Job Number |
| Location          | Date<br>14/11/17            | 1044       |
|                   | Project: Site Investigation |            |
|                   | Client: Barham Court Farm   |            |

| Depth (m) | Samples/ Tests | Water Depth (m) | Field Records | Depth (m bgl) | Thickness m | Description of Strata                                                                                                 | Legend |
|-----------|----------------|-----------------|---------------|---------------|-------------|-----------------------------------------------------------------------------------------------------------------------|--------|
| 0.20      | D              |                 |               | 0.20          | (0.20)      | Topsoil                                                                                                               |        |
|           |                |                 |               | 0.50          | (0.60)      | Structureless Chalk composed of compact pale brown gravelly sandy Silt. . Gravel is very weak, low density (Grade Dm) |        |
| 1.00      | D              |                 |               | 0.80          |             |                                                                                                                       |        |
|           |                |                 |               | 1.0           | (0.50)      | Stiff brown slightly gravelly Clay<br>Gravel is angular flint gravel.                                                 |        |
|           |                |                 |               | 1.30          |             |                                                                                                                       |        |
|           |                |                 |               | 1.50          | (0.90)      | Stiff pale brown Clay<br>Gravel is angular flint gravel and chalk.                                                    |        |
|           |                |                 |               | 2.0           |             |                                                                                                                       |        |
|           |                |                 |               | 2.20          |             |                                                                                                                       |        |
|           |                |                 |               |               |             | Base of Trial Pit                                                                                                     |        |
|           |                |                 |               | 3.0           |             |                                                                                                                       |        |

|               |                            |
|---------------|----------------------------|
| Plan          | Remarks                    |
|               | No groundwater encountered |
| Scale<br>1:25 | Logged<br>KB               |
|               | Checked<br>PB              |



# TRIAL PIT LOG

|                   |                   |                        |
|-------------------|-------------------|------------------------|
| Site:             | Barham Court Farm | TP6                    |
| Excavation Method | 360° Excavator    | Job Number<br><br>1044 |
| Location          | Date<br>14/11/17  |                        |
| Project:          |                   | Site Investigation     |
| Client:           |                   | Barham Court Farm      |

| Depth (m) | Samples/ Tests | Water Depth (m) | Field Records | Depth (m bgl)       | Thickness m | Description of Strata                                                                                                                           | Legend |
|-----------|----------------|-----------------|---------------|---------------------|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| 0.30      | D              |                 |               | 0.10                | (0.10)      | Topsoil                                                                                                                                         |        |
|           |                |                 |               | 0.50                | (0.80)      | Structureless Chalk composed of compact pale brown gravelly sandy Silt. . Gravel is very weak, low density (Grade Dm)                           |        |
| 1.00      | D              |                 |               | 0.90<br>1.0         | (0.80)      | Structureless Chalk composed of slightly sandy angular Gravel. Gravel is very weak, medium density. Matrix is compact and pale brown (Grade Dc) |        |
|           |                |                 |               | 1.50<br>1.70<br>2.0 |             | Base of Trial Pit                                                                                                                               |        |
|           |                |                 |               | 3.0                 |             |                                                                                                                                                 |        |

|      |                                           |              |               |
|------|-------------------------------------------|--------------|---------------|
| Plan | Remarks<br><br>No groundwater encountered |              |               |
|      | Scale<br>1:25                             | Logged<br>KB | Checked<br>PB |

**APPENDIX C**  
**LABORATORY TEST REPORTS**

## **APPENDIX C1**

### Saturation Moisture Content Test Reports

**Client:** Mr Rolf Groombridge

**Report No:** 1044/SMC1

**Address:** Barham Court Farm  
Church Lane  
Barham  
Canterbury  
CT4 6PB

**Your Ref:** N/A

**Report Date:** 22/11/2017

**Client Contact:** Mr Rolf Groombridge

**Site:** Barham Court Farm, Church Lane Barham CT4 6PB

**Test Requested:** Determination of Saturation Moisture Content of Chalk

**Test Method:** BS 1377-2: 1990, Clause 3.3

**Sample Details:** Sampled and submitted Peter Baxter Associates

Date Sampled: 14/11/2017

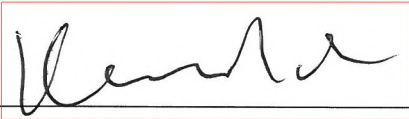
Date Received: 14/11/2017

Date Tested: 16/11/2017

**TEST RESULTS:**

| Laboratory Reference | Client Reference | Bulk Density (Mg/m3) | Moisture Content (%) | Dry Density (Mg/m3) | SMC (%) | Sample Description | Sample Size Acceptable? |
|----------------------|------------------|----------------------|----------------------|---------------------|---------|--------------------|-------------------------|
| 1044/01              | TP2 @ 0.80m      | 1.97                 | 25.8                 | 1.56                | 26.9    | Off white CHALK    | Yes                     |
| 1044/02              | TP2 @ 1.80m      | 1.95                 | 28.7                 | 1.51                | 29.0    | Off white CHALK    | Yes                     |
| 1044/04              | TP3 @ 2.00m      | 1.97                 | 26.8                 | 1.55                | 27.3    | Off white CHALK    | Yes                     |
| 1044/05              | TP4 @ 1.20m      | 1.94                 | 28.5                 | 1.51                | 29.1    | Off white CHALK    | Yes                     |
| 1044/06              | TP6 @ 1.00m      | 1.98                 | 26.9                 | 1.56                | 27.1    | Off white CHALK    | Yes                     |

.....END OF TEST REPORT.....

Signed:  Kwaku Baah - Laboratory Manager

For and on behalf of PBA Laboratories

## **APPENDIX C2**

### Atterburg Limits Test Report

**Client:** Mr Rolf Groombridge

**Report No:** 1044/MC1

**Address:** Barham Court Farm  
Church Lane  
Barham  
Canterbury Kent  
CT4 6PB

**Your Ref:** N/A

**Report Date:** 22/11/2017

**Client Contact:** Mr Rolf Groombridge

**Site:** Barham Court Farm, Church Lane, Barham Canterbury CT4 6PB

**Test Requested:** Determination of Moisture Content, Liquid, Plastic Limits & Plasticity Index

**Test Method:** BS 1377-2: 1990, Test Nos. 3.2; 4.4 (1 point LL); 5.3; & 5.4

**Sample Details:** Sampled and submitted by: Peter Baxter Associates  
Date Sampled: 14/11/2017  
Date Received: 14/11/2017  
Date Tested: 16/11/2017

**TEST RESULTS:**

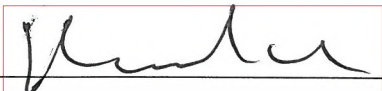
| Laboratory Reference | Client Reference |      | MC (%) | L.L (%) | P.L (%) | P.I (%) | % Retained on 425µm sieve | Condition of Test | Sample Type |
|----------------------|------------------|------|--------|---------|---------|---------|---------------------------|-------------------|-------------|
|                      | BH/WS/TP         | Ref. |        |         |         |         |                           |                   |             |
| 1044/03              | TP3 @ 1.00m      | N/A  | 27     | 44      | 23      | 21      | 5                         | Natural           | D           |

**Visual Descriptions:**

| Laboratory Reference | Client Reference | Description                                    |
|----------------------|------------------|------------------------------------------------|
| 1044/03              | TP3 @ 1.00m      | Brown CLAY with occasional gravel and rootlets |

Note: All samples received for this job shall be disposed of after 28 days of this report.

.....END OF TEST REPORT.....

Signed:  Kwaku Baah - Laboratory Manager

For and on behalf of PBA Laboratories

**APPENDIX C3**  
**Sulphate and pH Test Report**

**Client:** Mr Rolf Groombridge

**Address:** Barham Court Farm  
Church Lane  
Barham  
Canterbury Kent  
CT4 6PB

**Report No:** 1044/CH1

**Your Ref:** N/A

**Report Date:** 22/11/2017

**Client Contact:** Mr Rolf Groombridge

**Site:** Barham Court Farm, Church Lane, Barham Canterbury CT4 6PB

**Test Requested:** Determination of pH Value and Sulphate Content

**Test Method:** BS 1377-3: 1990, Clauses 5.5 & 9.5

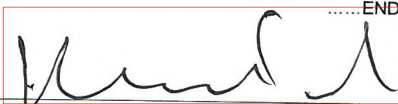
**Sample Details:** Sampled and submitted by: Peter Baxter Associates  
Date Sampled: 14/11/2017  
Date Received: 14/11/2017  
Date Tested: 20/11/2017

**TEST RESULTS:**

| Laboratory Reference | Client Reference |            | Soil Sulphates as SO <sub>4</sub> |                     | Water Sulphates as SO <sub>4</sub> | pH  | CLASS* | Dry Mass Passing 2mm test sieve (%) | Description                                    |
|----------------------|------------------|------------|-----------------------------------|---------------------|------------------------------------|-----|--------|-------------------------------------|------------------------------------------------|
|                      | BH/WS            | Sample Ref | Total (%)                         | Water Soluble (g/L) | (g/L)                              |     |        |                                     |                                                |
| 1044/03              | TP3 @ 1.00m      | N/A        | -                                 | 0.0                 | -                                  | 6.4 | DS-1   | 99                                  | Brown CLAY with occasional gravel and rootlets |
| 1044/06              | TP5 @ 1.00m      | N/A        | -                                 | 0.1                 | -                                  | 6.5 | DS-1   | 97                                  | Brown CLAY with occasional gravel              |

\* Classification based on Tables C1 & C2: BRE Special Digest 1:2005

.....END OF TEST REPORT.....

Signed:  Kwaku Baah - Laboratory Manager

For and on behalf of PBA Laboratories

**APPENDIX C4**  
**Contamination Test Reports**



Peter Baxter  
Peter Baxter Associates Ltd  
Beaufort House  
Sir Thomas Longley Road  
Medway City Estate  
Rochester  
Kent  
ME2 4FB



**QTS Environmental Ltd**  
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t: 01622 850410  
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## **QTS Environmental Report No: 17-67131**

**Site Reference:** Barham Court Farm, Church Lane, Barham, CT4 6PB

**Project / Job Ref:** 1044

**Order No:** QMS000021

**Sample Receipt Date:** 16/11/2017

**Sample Scheduled Date:** 16/11/2017

**Report Issue Number:** 1

**Reporting Date:** 21/11/2017

**Authorised by:**

Russell Jarvis  
Associate Director of Client Services

**Authorised by:**

Dave Ashworth  
Deputy Quality Manager

QTSE is the trading name of DETS Ltd, company registration number 03705645



**QTS Environmental Ltd**  
**Unit 1, Rose Lane Industrial Estate**  
**Rose Lane**  
**Lenham Heath**  
**Maidstone**  
**Kent ME17 2JN**  
**Tel : 01622 850410**



| Soil Analysis Certificate                                              |                        |               |               |               |               |               |
|------------------------------------------------------------------------|------------------------|---------------|---------------|---------------|---------------|---------------|
| <b>QTS Environmental Report No: 17-67131</b>                           | <b>Date Sampled</b>    | 14/11/17      | 14/11/17      | 14/11/17      | 14/11/17      | 14/11/17      |
| <b>Peter Baxter Associates Ltd</b>                                     | <b>Time Sampled</b>    | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| <b>Site Reference: Barham Court Farm, Church Lane, Barham, CT4 6PB</b> | <b>TP / BH No</b>      | TP1           | TP2           | TP3           | TP4           | TP5           |
| <b>Project / Job Ref: 1044</b>                                         | <b>Additional Refs</b> | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| <b>Order No: QMS000021</b>                                             | <b>Depth (m)</b>       | 0.30          | 0.20          | 0.30          | 0.30          | 0.20          |
| <b>Reporting Date: 21/11/2017</b>                                      | <b>QTSE Sample No</b>  | 302005        | 302006        | 302007        | 302008        | 302009        |

| Determinand                    | Unit  | RL    | Accreditation | (n)          |              |              |              |              |
|--------------------------------|-------|-------|---------------|--------------|--------------|--------------|--------------|--------------|
| Asbestos Screen <sup>(S)</sup> | N/a   | N/a   | ISO17025      | Not Detected | Not Detected | Not Detected | Not Detected | Not Detected |
| Arsenic (As)                   | mg/kg | < 2   | MCERTS        | 7            | 4            | 9            | 5            | < 2          |
| Barium (Ba)                    | mg/kg | < 5   | NONE          | 102          | 41           | 80           | 40           | 11           |
| Beryllium (Be)                 | mg/kg | < 0.5 | NONE          | 0.5          | < 0.5        | 0.8          | < 0.5        | < 0.5        |
| W/S Boron                      | mg/kg | < 1   | NONE          | < 1          | < 1          | < 1          | < 1          | < 1          |
| Cadmium (Cd)                   | mg/kg | < 0.2 | MCERTS        | 0.3          | 0.2          | 0.7          | 0.3          | < 0.2        |
| Chromium (Cr)                  | mg/kg | < 2   | MCERTS        | 13           | 8            | 15           | 11           | 3            |
| Copper (Cu)                    | mg/kg | < 4   | MCERTS        | 32           | 13           | 37           | 18           | 10           |
| Lead (Pb)                      | mg/kg | < 3   | MCERTS        | 44           | 43           | 95           | 24           | 4            |
| Mercury (Hg)                   | mg/kg | < 1   | NONE          | < 1          | < 1          | < 1          | < 1          | < 1          |
| Nickel (Ni)                    | mg/kg | < 3   | MCERTS        | 11           | 6            | 14           | 9            | < 3          |
| Selenium (Se)                  | mg/kg | < 3   | NONE          | < 3          | < 3          | < 3          | < 3          | < 3          |
| Vanadium (V)                   | mg/kg | < 2   | NONE          | 20           | 10           | 25           | 18           | 5            |
| Zinc (Zn)                      | mg/kg | < 3   | MCERTS        | 244          | 51           | 207          | 92           | 20           |

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C

Subcontracted analysis (S)

(n) Please note we are only MCERTS accredited (UK soils only) for sand, loam and clay and any other matrix is outside our scope of accreditation



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**Tel : 01622 850410**



| Soil Analysis Certificate                                              |                        |               |  |  |  |  |
|------------------------------------------------------------------------|------------------------|---------------|--|--|--|--|
| <b>QTS Environmental Report No: 17-67131</b>                           | <b>Date Sampled</b>    | 14/11/17      |  |  |  |  |
| <b>Peter Baxter Associates Ltd</b>                                     | <b>Time Sampled</b>    | None Supplied |  |  |  |  |
| <b>Site Reference: Barham Court Farm, Church Lane, Barham, CT4 6PB</b> | <b>TP / BH No</b>      | TP6           |  |  |  |  |
| <b>Project / Job Ref: 1044</b>                                         | <b>Additional Refs</b> | None Supplied |  |  |  |  |
| <b>Order No: QMS000021</b>                                             | <b>Depth (m)</b>       | 0.30          |  |  |  |  |
| <b>Reporting Date: 21/11/2017</b>                                      | <b>QTSE Sample No</b>  | 302010        |  |  |  |  |

| Determinand                    | Unit  | RL    | Accreditation | (n)          |  |  |  |  |
|--------------------------------|-------|-------|---------------|--------------|--|--|--|--|
| Asbestos Screen <sup>(S)</sup> | N/a   | N/a   | ISO17025      | Not Detected |  |  |  |  |
| Arsenic (As)                   | mg/kg | < 2   | MCERTS        | < 2          |  |  |  |  |
| Barium (Ba)                    | mg/kg | < 5   | NONE          | 9            |  |  |  |  |
| Beryllium (Be)                 | mg/kg | < 0.5 | NONE          | < 0.5        |  |  |  |  |
| W/S Boron                      | mg/kg | < 1   | NONE          | < 1          |  |  |  |  |
| Cadmium (Cd)                   | mg/kg | < 0.2 | MCERTS        | < 0.2        |  |  |  |  |
| Chromium (Cr)                  | mg/kg | < 2   | MCERTS        | 3            |  |  |  |  |
| Copper (Cu)                    | mg/kg | < 4   | MCERTS        | 8            |  |  |  |  |
| Lead (Pb)                      | mg/kg | < 3   | MCERTS        | 3            |  |  |  |  |
| Mercury (Hg)                   | mg/kg | < 1   | NONE          | < 1          |  |  |  |  |
| Nickel (Ni)                    | mg/kg | < 3   | MCERTS        | < 3          |  |  |  |  |
| Selenium (Se)                  | mg/kg | < 3   | NONE          | < 3          |  |  |  |  |
| Vanadium (V)                   | mg/kg | < 2   | NONE          | 5            |  |  |  |  |
| Zinc (Zn)                      | mg/kg | < 3   | MCERTS        | 15           |  |  |  |  |

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C  
 Subcontracted analysis (S)



**QTS Environmental Ltd**  
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**Lenham Heath**  
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**Tel : 01622 850410**



| Soil Analysis Certificate - Speciated PAHs                             |                        |               |               |               |               |               |
|------------------------------------------------------------------------|------------------------|---------------|---------------|---------------|---------------|---------------|
| <b>QTS Environmental Report No: 17-67131</b>                           | <b>Date Sampled</b>    | 14/11/17      | 14/11/17      | 14/11/17      | 14/11/17      | 14/11/17      |
| <b>Peter Baxter Associates Ltd</b>                                     | <b>Time Sampled</b>    | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| <b>Site Reference: Barham Court Farm, Church Lane, Barham, CT4 6PB</b> | <b>TP / BH No</b>      | TP1           | TP2           | TP3           | TP4           | TP5           |
| <b>Project / Job Ref: 1044</b>                                         | <b>Additional Refs</b> | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| <b>Order No: QMS000021</b>                                             | <b>Depth (m)</b>       | 0.30          | 0.20          | 0.30          | 0.30          | 0.20          |
| <b>Reporting Date: 21/11/2017</b>                                      | <b>QTSE Sample No</b>  | 302005        | 302006        | 302007        | 302008        | 302009        |

| Determinand            | Unit  | RL    | Accreditation | (n)   |       |       |       |       |
|------------------------|-------|-------|---------------|-------|-------|-------|-------|-------|
| Naphthalene            | mg/kg | < 0.1 | MCERTS        | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Acenaphthylene         | mg/kg | < 0.1 | MCERTS        | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Acenaphthene           | mg/kg | < 0.1 | MCERTS        | 0.40  | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Fluorene               | mg/kg | < 0.1 | MCERTS        | 0.28  | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Phenanthrene           | mg/kg | < 0.1 | MCERTS        | 5.25  | < 0.1 | 0.14  | < 0.1 | < 0.1 |
| Anthracene             | mg/kg | < 0.1 | MCERTS        | 1.74  | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Fluoranthene           | mg/kg | < 0.1 | MCERTS        | 9.11  | < 0.1 | 0.43  | 0.23  | < 0.1 |
| Pyrene                 | mg/kg | < 0.1 | MCERTS        | 7.88  | < 0.1 | 0.37  | 0.19  | < 0.1 |
| Benzo(a)anthracene     | mg/kg | < 0.1 | MCERTS        | 4.37  | < 0.1 | 0.22  | 0.17  | < 0.1 |
| Chrysene               | mg/kg | < 0.1 | MCERTS        | 3.85  | < 0.1 | 0.23  | 0.19  | < 0.1 |
| Benzo(b)fluoranthene   | mg/kg | < 0.1 | MCERTS        | 4.51  | < 0.1 | 0.29  | 0.23  | < 0.1 |
| Benzo(k)fluoranthene   | mg/kg | < 0.1 | MCERTS        | 1.69  | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Benzo(a)pyrene         | mg/kg | < 0.1 | MCERTS        | 3.42  | < 0.1 | 0.19  | 0.14  | < 0.1 |
| Indeno(1,2,3-cd)pyrene | mg/kg | < 0.1 | MCERTS        | 2.09  | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Dibenz(a,h)anthracene  | mg/kg | < 0.1 | MCERTS        | 0.23  | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Benzo(ghi)perylene     | mg/kg | < 0.1 | MCERTS        | 1.73  | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Total EPA-16 PAHs      | mg/kg | < 1.6 | MCERTS        | 46.6  | < 1.6 | 1.9   | < 1.6 | < 1.6 |

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| Soil Analysis Certificate - Speciated PAHs                      |                 |               |  |  |  |  |
|-----------------------------------------------------------------|-----------------|---------------|--|--|--|--|
| QTS Environmental Report No: 17-67131                           | Date Sampled    | 14/11/17      |  |  |  |  |
| Peter Baxter Associates Ltd                                     | Time Sampled    | None Supplied |  |  |  |  |
| Site Reference: Barham Court Farm, Church Lane, Barham, CT4 6PB | TP / BH No      | TP6           |  |  |  |  |
| Project / Job Ref: 1044                                         | Additional Refs | None Supplied |  |  |  |  |
| Order No: QMS000021                                             | Depth (m)       | 0.30          |  |  |  |  |
| Reporting Date: 21/11/2017                                      | QTSE Sample No  | 302010        |  |  |  |  |

| Determinand            | Unit  | RL    | Accreditation | (n)   |  |  |  |
|------------------------|-------|-------|---------------|-------|--|--|--|
| Naphthalene            | mg/kg | < 0.1 | MCERTS        | < 0.1 |  |  |  |
| Acenaphthylene         | mg/kg | < 0.1 | MCERTS        | < 0.1 |  |  |  |
| Acenaphthene           | mg/kg | < 0.1 | MCERTS        | < 0.1 |  |  |  |
| Fluorene               | mg/kg | < 0.1 | MCERTS        | < 0.1 |  |  |  |
| Phenanthrene           | mg/kg | < 0.1 | MCERTS        | < 0.1 |  |  |  |
| Anthracene             | mg/kg | < 0.1 | MCERTS        | < 0.1 |  |  |  |
| Fluoranthene           | mg/kg | < 0.1 | MCERTS        | < 0.1 |  |  |  |
| Pyrene                 | mg/kg | < 0.1 | MCERTS        | < 0.1 |  |  |  |
| Benzo(a)anthracene     | mg/kg | < 0.1 | MCERTS        | < 0.1 |  |  |  |
| Chrysene               | mg/kg | < 0.1 | MCERTS        | < 0.1 |  |  |  |
| Benzo(b)fluoranthene   | mg/kg | < 0.1 | MCERTS        | < 0.1 |  |  |  |
| Benzo(k)fluoranthene   | mg/kg | < 0.1 | MCERTS        | < 0.1 |  |  |  |
| Benzo(a)pyrene         | mg/kg | < 0.1 | MCERTS        | < 0.1 |  |  |  |
| Indeno(1,2,3-cd)pyrene | mg/kg | < 0.1 | MCERTS        | < 0.1 |  |  |  |
| Dibenz(a,h)anthracene  | mg/kg | < 0.1 | MCERTS        | < 0.1 |  |  |  |
| Benzo(ghi)perylene     | mg/kg | < 0.1 | MCERTS        | < 0.1 |  |  |  |
| Total EPA-16 PAHs      | mg/kg | < 1.6 | MCERTS        | < 1.6 |  |  |  |

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**Soil Analysis Certificate - TPH CWG Banded**

|                                                                        |                        |               |               |               |               |               |
|------------------------------------------------------------------------|------------------------|---------------|---------------|---------------|---------------|---------------|
| <b>QTS Environmental Report No: 17-67131</b>                           | <b>Date Sampled</b>    | 14/11/17      | 14/11/17      | 14/11/17      | 14/11/17      | 14/11/17      |
| <b>Peter Baxter Associates Ltd</b>                                     | <b>Time Sampled</b>    | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| <b>Site Reference: Barham Court Farm, Church Lane, Barham, CT4 6PB</b> | <b>TP / BH No</b>      | TP1           | TP2           | TP3           | TP4           | TP5           |
| <b>Project / Job Ref: 1044</b>                                         | <b>Additional Refs</b> | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| <b>Order No: QMS000021</b>                                             | <b>Depth (m)</b>       | 0.30          | 0.20          | 0.30          | 0.30          | 0.20          |
| <b>Reporting Date: 21/11/2017</b>                                      | <b>QTSE Sample No</b>  | 302005        | 302006        | 302007        | 302008        | 302009        |

| Determinand          | Unit  | RL     | Accreditation | (n)    |        |        |        |        |
|----------------------|-------|--------|---------------|--------|--------|--------|--------|--------|
| Aliphatic >C5 - C6   | mg/kg | < 0.01 | NONE          | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Aliphatic >C6 - C8   | mg/kg | < 0.05 | NONE          | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Aliphatic >C8 - C10  | mg/kg | < 2    | MCERTS        | < 2    | < 2    | < 2    | < 2    | < 2    |
| Aliphatic >C10 - C12 | mg/kg | < 2    | MCERTS        | < 2    | < 2    | < 2    | < 2    | < 2    |
| Aliphatic >C12 - C16 | mg/kg | < 3    | MCERTS        | < 3    | < 3    | < 3    | < 3    | < 3    |
| Aliphatic >C16 - C21 | mg/kg | < 3    | MCERTS        | < 3    | < 3    | < 3    | < 3    | < 3    |
| Aliphatic >C21 - C34 | mg/kg | < 10   | MCERTS        | < 10   | < 10   | < 10   | < 10   | < 10   |
| Aliphatic (C5 - C34) | mg/kg | < 21   | NONE          | < 21   | < 21   | < 21   | < 21   | < 21   |
| Aromatic >C5 - C7    | mg/kg | < 0.01 | NONE          | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Aromatic >C7 - C8    | mg/kg | < 0.05 | NONE          | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Aromatic >C8 - C10   | mg/kg | < 2    | MCERTS        | < 2    | < 2    | < 2    | < 2    | < 2    |
| Aromatic >C10 - C12  | mg/kg | < 2    | MCERTS        | < 2    | < 2    | < 2    | < 2    | < 2    |
| Aromatic >C12 - C16  | mg/kg | < 2    | MCERTS        | 5      | < 2    | < 2    | < 2    | < 2    |
| Aromatic >C16 - C21  | mg/kg | < 3    | MCERTS        | 53     | < 3    | < 3    | < 3    | < 3    |
| Aromatic >C21 - C35  | mg/kg | < 10   | MCERTS        | 155    | < 10   | < 10   | < 10   | < 10   |
| Aromatic (C5 - C35)  | mg/kg | < 21   | NONE          | 214    | < 21   | < 21   | < 21   | < 21   |
| Total >C5 - C35      | mg/kg | < 42   | NONE          | 214    | < 42   | < 42   | < 42   | < 42   |

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**Soil Analysis Certificate - TPH CWG Banded**

|                                                                        |                        |               |  |  |  |  |
|------------------------------------------------------------------------|------------------------|---------------|--|--|--|--|
| <b>QTS Environmental Report No: 17-67131</b>                           | <b>Date Sampled</b>    | 14/11/17      |  |  |  |  |
| <b>Peter Baxter Associates Ltd</b>                                     | <b>Time Sampled</b>    | None Supplied |  |  |  |  |
| <b>Site Reference: Barham Court Farm, Church Lane, Barham, CT4 6PB</b> | <b>TP / BH No</b>      | TP6           |  |  |  |  |
| <b>Project / Job Ref: 1044</b>                                         | <b>Additional Refs</b> | None Supplied |  |  |  |  |
| <b>Order No: QMS000021</b>                                             | <b>Depth (m)</b>       | 0.30          |  |  |  |  |
| <b>Reporting Date: 21/11/2017</b>                                      | <b>QTSE Sample No</b>  | 302010        |  |  |  |  |

| <b>Determinand</b>   | <b>Unit</b> | <b>RL</b> | <b>Accreditation</b> | <b>(n)</b> |  |  |  |  |
|----------------------|-------------|-----------|----------------------|------------|--|--|--|--|
| Aliphatic >C5 - C6   | mg/kg       | < 0.01    | NONE                 | < 0.01     |  |  |  |  |
| Aliphatic >C6 - C8   | mg/kg       | < 0.05    | NONE                 | < 0.05     |  |  |  |  |
| Aliphatic >C8 - C10  | mg/kg       | < 2       | MCERTS               | < 2        |  |  |  |  |
| Aliphatic >C10 - C12 | mg/kg       | < 2       | MCERTS               | < 2        |  |  |  |  |
| Aliphatic >C12 - C16 | mg/kg       | < 3       | MCERTS               | < 3        |  |  |  |  |
| Aliphatic >C16 - C21 | mg/kg       | < 3       | MCERTS               | < 3        |  |  |  |  |
| Aliphatic >C21 - C34 | mg/kg       | < 10      | MCERTS               | < 10       |  |  |  |  |
| Aliphatic (C5 - C34) | mg/kg       | < 21      | NONE                 | < 21       |  |  |  |  |
| Aromatic >C5 - C7    | mg/kg       | < 0.01    | NONE                 | < 0.01     |  |  |  |  |
| Aromatic >C7 - C8    | mg/kg       | < 0.05    | NONE                 | < 0.05     |  |  |  |  |
| Aromatic >C8 - C10   | mg/kg       | < 2       | MCERTS               | < 2        |  |  |  |  |
| Aromatic >C10 - C12  | mg/kg       | < 2       | MCERTS               | < 2        |  |  |  |  |
| Aromatic >C12 - C16  | mg/kg       | < 2       | MCERTS               | < 2        |  |  |  |  |
| Aromatic >C16 - C21  | mg/kg       | < 3       | MCERTS               | < 3        |  |  |  |  |
| Aromatic >C21 - C35  | mg/kg       | < 10      | MCERTS               | < 10       |  |  |  |  |
| Aromatic (C5 - C35)  | mg/kg       | < 21      | NONE                 | < 21       |  |  |  |  |
| Total >C5 - C35      | mg/kg       | < 42      | NONE                 | < 42       |  |  |  |  |

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| Soil Analysis Certificate - BTEX / MTBE                                |                        |               |               |               |               |               |
|------------------------------------------------------------------------|------------------------|---------------|---------------|---------------|---------------|---------------|
| <b>QTS Environmental Report No: 17-67131</b>                           | <b>Date Sampled</b>    | 14/11/17      | 14/11/17      | 14/11/17      | 14/11/17      | 14/11/17      |
| <b>Peter Baxter Associates Ltd</b>                                     | <b>Time Sampled</b>    | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| <b>Site Reference: Barham Court Farm, Church Lane, Barham, CT4 6PB</b> | <b>TP / BH No</b>      | TP1           | TP2           | TP3           | TP4           | TP5           |
| <b>Project / Job Ref: 1044</b>                                         | <b>Additional Refs</b> | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| <b>Order No: QMS000021</b>                                             | <b>Depth (m)</b>       | 0.30          | 0.20          | 0.30          | 0.30          | 0.20          |
| <b>Reporting Date: 21/11/2017</b>                                      | <b>QTSE Sample No</b>  | 302005        | 302006        | 302007        | 302008        | 302009        |

| Determinand  | Unit  | RL  | Accreditation | (n) |     |     |     |     |
|--------------|-------|-----|---------------|-----|-----|-----|-----|-----|
| Benzene      | ug/kg | < 2 | MCERTS        | < 2 | < 2 | < 2 | < 2 | < 2 |
| Toluene      | ug/kg | < 5 | MCERTS        | < 5 | < 5 | < 5 | < 5 | < 5 |
| Ethylbenzene | ug/kg | < 2 | MCERTS        | < 2 | < 2 | < 2 | < 2 | < 2 |
| p & m-xylene | ug/kg | < 2 | MCERTS        | < 2 | < 2 | < 2 | < 2 | < 2 |
| o-xylene     | ug/kg | < 2 | MCERTS        | < 2 | < 2 | < 2 | < 2 | < 2 |
| MTBE         | ug/kg | < 5 | MCERTS        | < 5 | < 5 | < 5 | < 5 | < 5 |

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| Soil Analysis Certificate - BTEX / MTBE                         |                 |               |  |  |  |  |
|-----------------------------------------------------------------|-----------------|---------------|--|--|--|--|
| QTS Environmental Report No: 17-67131                           | Date Sampled    | 14/11/17      |  |  |  |  |
| Peter Baxter Associates Ltd                                     | Time Sampled    | None Supplied |  |  |  |  |
| Site Reference: Barham Court Farm, Church Lane, Barham, CT4 6PB | TP / BH No      | TP6           |  |  |  |  |
| Project / Job Ref: 1044                                         | Additional Refs | None Supplied |  |  |  |  |
| Order No: QMS000021                                             | Depth (m)       | 0.30          |  |  |  |  |
| Reporting Date: 21/11/2017                                      | QTSE Sample No  | 302010        |  |  |  |  |

| Determinand  | Unit  | RL  | Accreditation | (n) |  |  |  |  |
|--------------|-------|-----|---------------|-----|--|--|--|--|
| Benzene      | ug/kg | < 2 | MCERTS        | < 2 |  |  |  |  |
| Toluene      | ug/kg | < 5 | MCERTS        | < 5 |  |  |  |  |
| Ethylbenzene | ug/kg | < 2 | MCERTS        | < 2 |  |  |  |  |
| p & m-xylene | ug/kg | < 2 | MCERTS        | < 2 |  |  |  |  |
| o-xylene     | ug/kg | < 2 | MCERTS        | < 2 |  |  |  |  |
| MTBE         | ug/kg | < 5 | MCERTS        | < 5 |  |  |  |  |

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| Soil Analysis Certificate - Organophosphorus Pesticides                |                        |               |               |               |  |  |
|------------------------------------------------------------------------|------------------------|---------------|---------------|---------------|--|--|
| <b>QTS Environmental Report No: 17-67131</b>                           | <b>Date Sampled</b>    | 14/11/17      | 14/11/17      | 14/11/17      |  |  |
| <b>Peter Baxter Associates Ltd</b>                                     | <b>Time Sampled</b>    | None Supplied | None Supplied | None Supplied |  |  |
| <b>Site Reference: Barham Court Farm, Church Lane, Barham, CT4 6PB</b> | <b>TP / BH No</b>      | TP1           | TP4           | TP6           |  |  |
| <b>Project / Job Ref: 1044</b>                                         | <b>Additional Refs</b> | None Supplied | None Supplied | None Supplied |  |  |
| <b>Order No: QMS000021</b>                                             | <b>Depth (m)</b>       | 0.30          | 0.30          | 0.30          |  |  |
| <b>Reporting Date: 21/11/2017</b>                                      | <b>QTSE Sample No</b>  | 302005        | 302008        | 302010        |  |  |

| Determinand            | Unit  | RL    | Accreditation | (n)   |       |       |  |
|------------------------|-------|-------|---------------|-------|-------|-------|--|
| Azinphos-methyl        | mg/kg | < 0.1 | NONE          | < 0.1 | < 0.1 | < 0.1 |  |
| Chlorfenvinphos, alpha | mg/kg | < 0.1 | NONE          | < 0.1 | < 0.1 | < 0.1 |  |
| Chlorfenvinphos, beta  | mg/kg | < 0.1 | NONE          | < 0.1 | < 0.1 | < 0.1 |  |
| Chlorpyrifos-methyl    | mg/kg | < 0.1 | NONE          | < 0.1 | < 0.1 | < 0.1 |  |
| Diazinon               | mg/kg | < 0.1 | NONE          | < 0.1 | < 0.1 | < 0.1 |  |
| Dichlorvos             | mg/kg | < 0.1 | NONE          | < 0.1 | < 0.1 | < 0.1 |  |
| Dimethoate             | mg/kg | < 0.1 | NONE          | < 0.1 | < 0.1 | < 0.1 |  |
| Fenitrothion           | mg/kg | < 0.1 | NONE          | < 0.1 | < 0.1 | < 0.1 |  |
| Fenthion               | mg/kg | < 0.1 | NONE          | < 0.1 | < 0.1 | < 0.1 |  |
| Malathion              | mg/kg | < 0.1 | NONE          | < 0.1 | < 0.1 | < 0.1 |  |
| Mevinphos, E           | mg/kg | < 0.1 | NONE          | < 0.1 | < 0.1 | < 0.1 |  |
| Mevinphos, (Z)         | mg/kg | < 0.1 | NONE          | < 0.1 | < 0.1 | < 0.1 |  |
| Parathion-ethyl        | mg/kg | < 0.1 | NONE          | < 0.1 | < 0.1 | < 0.1 |  |
| Parathion-methyl       | mg/kg | < 0.1 | NONE          | < 0.1 | < 0.1 | < 0.1 |  |
| Phorate                | mg/kg | < 0.1 | NONE          | < 0.1 | < 0.1 | < 0.1 |  |

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#### Soil Analysis Certificate - Sample Descriptions

QTS Environmental Report No: 17-67131

Peter Baxter Associates Ltd

Site Reference: Barham Court Farm, Church Lane, Barham, CT4 6PB

Project / Job Ref: 1044

Order No: QMS000021

Reporting Date: 21/11/2017

| QTSE Sample No | TP / BH No | Additional Refs | Depth (m) | Moisture Content (%) | Sample Matrix Description              |
|----------------|------------|-----------------|-----------|----------------------|----------------------------------------|
| 302005         | TP1        | None Supplied   | 0.30      | 12                   | Black sandy clay with stones and chalk |
| 302006         | TP2        | None Supplied   | 0.20      | 13.1                 | Brown sandy clay with stones and chalk |
| 302007         | TP3        | None Supplied   | 0.30      | 20.9                 | Black sandy clay with stones           |
| 302008         | TP4        | None Supplied   | 0.30      | 12.4                 | Brown sandy clay with stones           |
| 302009         | TP5        | None Supplied   | 0.20      | 16.6                 | White chalk                            |
| 302010         | TP6        | None Supplied   | 0.30      | 16.9                 | White chalk with stones                |

Moisture content is part of procedure E003 & is not an accredited test

Insufficient Sample <sup>1/S</sup>

Unsuitable Sample <sup>U/S</sup>



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**Soil Analysis Certificate - Methodology & Miscellaneous Information**

**QTS Environmental Report No: 17-67131**

**Peter Baxter Associates Ltd**

**Site Reference: Barham Court Farm, Church Lane, Barham, CT4 6PB**

**Project / Job Ref: 1044**

**Order No: QMS000021**

**Reporting Date: 21/11/2017**

| Matrix | Analysed On | Determinand                                                                                                                                     | Brief Method Description                                                                                                                             | Method No |
|--------|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| Soil   | D           | Boron - Water Soluble                                                                                                                           | Determination of water soluble boron in soil by 2:1 hot water extract followed by ICP-OES                                                            | E012      |
| Soil   | AR          | BTEX                                                                                                                                            | Determination of BTEX by headspace GC-MS                                                                                                             | E001      |
| Soil   | D           | Cations                                                                                                                                         | Determination of cations in soil by aqua-regia digestion followed by ICP-OES                                                                         | E002      |
| Soil   | D           | Chloride - Water Soluble (2:1)                                                                                                                  | Determination of chloride by extraction with water & analysed by ion chromatography                                                                  | E009      |
| Soil   | AR          | Chromium - Hexavalent                                                                                                                           | Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphénylcarbazine followed by colorimetry | E016      |
| Soil   | AR          | Cyanide - Complex                                                                                                                               | Determination of complex cyanide by distillation followed by colorimetry                                                                             | E015      |
| Soil   | AR          | Cyanide - Free                                                                                                                                  | Determination of free cyanide by distillation followed by colorimetry                                                                                | E015      |
| Soil   | AR          | Cyanide - Total                                                                                                                                 | Determination of total cyanide by distillation followed by colorimetry                                                                               | E015      |
| Soil   | D           | Cyclohexane Extractable Matter (CEM)                                                                                                            | Gravimetrically determined through extraction with cyclohexane                                                                                       | E011      |
| Soil   | AR          | Diesel Range Organics (C10 - C24)                                                                                                               | Determination of hexane/acetone extractable hydrocarbons by GC-FID                                                                                   | E004      |
| Soil   | AR          | Electrical Conductivity                                                                                                                         | Determination of electrical conductivity by addition of saturated calcium sulphate followed by electrometric measurement                             | E022      |
| Soil   | AR          | Electrical Conductivity                                                                                                                         | Determination of electrical conductivity by addition of water followed by electrometric measurement                                                  | E023      |
| Soil   | D           | Elemental Sulphur                                                                                                                               | Determination of elemental sulphur by solvent extraction followed by GC-MS                                                                           | E020      |
| Soil   | AR          | EPH (C10 - C40)                                                                                                                                 | Determination of acetone/hexane extractable hydrocarbons by GC-FID                                                                                   | E004      |
| Soil   | AR          | EPH Product ID                                                                                                                                  | Determination of acetone/hexane extractable hydrocarbons by GC-FID                                                                                   | E004      |
| Soil   | AR          | EPH TEXAS (C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C40)                                                                                   | Determination of acetone/hexane extractable hydrocarbons by GC-FID for C8 to C40. C6 to C8 by headspace GC-MS                                        | E004      |
| Soil   | D           | Fluoride - Water Soluble                                                                                                                        | Determination of Fluoride by extraction with water & analysed by ion chromatography                                                                  | E009      |
| Soil   | D           | FOC (Fraction Organic Carbon)                                                                                                                   | Determination of fraction of organic carbon by oxidising with potassium dichromate followed by titration with iron (II) sulphate                     | E010      |
| Soil   | D           | Loss on Ignition @ 450oC                                                                                                                        | Determination of loss on ignition in soil by gravimetrically with the sample being ignited in a muffle furnace                                       | E019      |
| Soil   | D           | Magnesium - Water Soluble                                                                                                                       | Determination of water soluble magnesium by extraction with water followed by ICP-OES                                                                | E025      |
| Soil   | D           | Metals                                                                                                                                          | Determination of metals by aqua-regia digestion followed by ICP-OES                                                                                  | E002      |
| Soil   | AR          | Mineral Oil (C10 - C40)                                                                                                                         | Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge                                                  | E004      |
| Soil   | AR          | Moisture Content                                                                                                                                | Moisture content; determined gravimetrically                                                                                                         | E003      |
| Soil   | D           | Nitrate - Water Soluble (2:1)                                                                                                                   | Determination of nitrate by extraction with water & analysed by ion chromatography                                                                   | E009      |
| Soil   | D           | Organic Matter                                                                                                                                  | Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphate                                 | E010      |
| Soil   | AR          | PAH - Speciated (EPA 16)                                                                                                                        | Determination of PAH compounds by extraction in acetone and hexane followed by GC-MS with the use of surrogate and internal standards                | E005      |
| Soil   | AR          | PCB - 7 Congeners                                                                                                                               | Determination of PCB by extraction with acetone and hexane followed by GC-MS                                                                         | E008      |
| Soil   | D           | Petroleum Ether Extract (PEE)                                                                                                                   | Gravimetrically determined through extraction with petroleum ether                                                                                   | E011      |
| Soil   | AR          | pH                                                                                                                                              | Determination of pH by addition of water followed by electrometric measurement                                                                       | E007      |
| Soil   | AR          | Phenols - Total (monohydric)                                                                                                                    | Determination of phenols by distillation followed by colorimetry                                                                                     | E021      |
| Soil   | D           | Phosphate - Water Soluble (2:1)                                                                                                                 | Determination of phosphate by extraction with water & analysed by ion chromatography                                                                 | E009      |
| Soil   | D           | Sulphate (as SO4) - Total                                                                                                                       | Determination of total sulphate by extraction with 10% HCl followed by ICP-OES                                                                       | E013      |
| Soil   | D           | Sulphate (as SO4) - Water Soluble (2:1)                                                                                                         | Determination of sulphate by extraction with water & analysed by ion chromatography                                                                  | E009      |
| Soil   | D           | Sulphate (as SO4) - Water Soluble (2:1)                                                                                                         | Determination of water soluble sulphate by extraction with water followed by ICP-OES                                                                 | E014      |
| Soil   | AR          | Sulphide                                                                                                                                        | Determination of sulphide by distillation followed by colorimetry                                                                                    | E018      |
| Soil   | D           | Sulphur - Total                                                                                                                                 | Determination of total sulphur by extraction with aqua-regia followed by ICP-OES                                                                     | E024      |
| Soil   | AR          | SVOC                                                                                                                                            | Determination of semi-volatile organic compounds by extraction in acetone and hexane followed by GC-MS                                               | E006      |
| Soil   | AR          | Thiocyanate (as SCN)                                                                                                                            | Determination of thiocyanate by extraction in caustic soda followed by acidification followed by addition of ferric nitrate followed by colorimetry  | E017      |
| Soil   | D           | Toluene Extractable Matter (TEM)                                                                                                                | Gravimetrically determined through extraction with toluene                                                                                           | E011      |
| Soil   | D           | Total Organic Carbon (TOC)                                                                                                                      | Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphate                                 | E010      |
| Soil   | AR          | TPH CWG (ali: C5- C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35)         | Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C35. C5 to C8 by headspace GC-MS       | E004      |
| Soil   | AR          | TPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44) | Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C44. C5 to C8 by headspace GC-MS       | E004      |
| Soil   | AR          | VOCs                                                                                                                                            | Determination of volatile organic compounds by headspace GC-MS                                                                                       | E001      |
| Soil   | AR          | VPH (C6-C8 & C8-C10)                                                                                                                            | Determination of hydrocarbons C6-C8 by headspace GC-MS & C8-C10 by GC-FID                                                                            | E001      |

**D Dried**  
**AR As Received**