

Site Investigation Report for land off  
Gatewen Road, Wrexham

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**Appendix 11**

**Chemical Test Results**



## Certificate of Analysis

**Certificate Number** 21-11205

**Issued:** 07-Jun-21

**Client** Coopers (Chester) Ltd  
Park House  
Sandpiper Court  
Chester Business Park  
Chester  
CH4 9QU

**Our Reference** 21-11205

**Client Reference** 7791

**Order No** 9065-ST

**Contract Title** (7791) Gatewen Road, Wrexham

**Description** 20 Soil samples.

**Date Received** 27-May-21

**Date Started** 27-May-21

**Date Completed** 07-Jun-21

**Test Procedures** Identified by prefix DETSn (details on request).

**Notes** Opinions and interpretations are outside the laboratory's scope of ISO 17025 accreditation. This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This certificate shall not be reproduced except in full, without the prior written approval of the laboratory.

**Approved By**

Adam Fenwick  
Contracts Manager



## Summary of Chemical Analysis

### Matrix Descriptions

*Our Ref* 21-11205

*Client Ref* 7791

*Contract Title* (7791) Gatewen Road, Wrexham

| Sample ID | Depth | Lab No  | Completed  | Matrix Description                                      |
|-----------|-------|---------|------------|---------------------------------------------------------|
| TP102     | 0.4   | 1853547 | 07/06/2021 | Brown gravelly, sandy CLAY                              |
| TP104     | 0.15  | 1853549 | 07/06/2021 | Brown sandy CLAY including some rootlets                |
| TP106     | 0.1   | 1853552 | 07/06/2021 | Brown gravelly, sandy CLAY                              |
| TP107     | 0.4   | 1853554 | 07/06/2021 | Brown gravelly, sandy CLAY                              |
| TP108     | 0.15  | 1853555 | 07/06/2021 | Dark brown gravelly, sandy CLAY including some rootlets |
| TP109     | 0.1   | 1853556 | 07/06/2021 | Dark brown gravelly, sandy CLAY including some rootlets |
| TP110     | 0.1   | 1853557 | 07/06/2021 | Dark brown gravelly, sandy CLAY including some rootlets |
| TP113     | 0.1   | 1853561 | 07/06/2021 | Dark brown sandy CLAY including much rootlets           |
| TP114     | 0.1   | 1853562 | 07/06/2021 | Dark brown gravelly, sandy CLAY                         |
| TP114     | 0.6   | 1853563 | 07/06/2021 | Brown gravelly, sandy CLAY                              |

# Summary of Chemical Analysis

## Soil Samples

Our Ref 21-11205

Client Ref 7791

Contract Title (7791) Gatewen Road, Wrexham

| Lab No        | 1853546    | 1853547    | 1853549    | 1853550    | 1853551    | 1853552    |
|---------------|------------|------------|------------|------------|------------|------------|
| Sample ID     | TP102      | TP102      | TP104      | TP105      | TP105      | TP106      |
| Depth         | 0.10       | 0.40       | 0.15       | 0.10       | 0.50       | 0.10       |
| Other ID      |            |            |            |            |            |            |
| Sample Type   | SOIL       | SOIL       | SOIL       | SOIL       | SOIL       | SOIL       |
| Sampling Date | 24/05/2021 | 24/05/2021 | 24/05/2021 | 24/05/2021 | 24/05/2021 | 24/05/2021 |
| Sampling Time | n/s        | n/s        | n/s        | n/s        | n/s        | n/s        |

| Test                            | Method      | LOD   | Units |        |       |       |  |        |       |
|---------------------------------|-------------|-------|-------|--------|-------|-------|--|--------|-------|
| <b>Metals</b>                   |             |       |       |        |       |       |  |        |       |
| Arsenic                         | DETSC 2301# | 0.2   | mg/kg |        | 6.5   | 12    |  |        | 11    |
| Beryllium                       | DETSC 2301# | 0.2   | mg/kg |        | 0.4   | 0.7   |  |        | 0.7   |
| Boron, Water Soluble            | DETSC 2311# | 0.2   | mg/kg |        | 0.5   | 0.4   |  |        | 0.4   |
| Cadmium                         | DETSC 2301# | 0.1   | mg/kg |        | 1.0   | 0.5   |  |        | 0.8   |
| Chromium                        | DETSC 2301# | 0.15  | mg/kg |        | 22    | 20    |  |        | 21    |
| Chromium, Hexavalent            | DETSC 2204* | 1     | mg/kg |        | < 1.0 | < 1.0 |  |        | < 1.0 |
| Copper                          | DETSC 2301# | 0.2   | mg/kg |        | 19    | 26    |  |        | 26    |
| Lead                            | DETSC 2301# | 0.3   | mg/kg |        | 56    | 76    |  |        | 77    |
| Mercury                         | DETSC 2325# | 0.05  | mg/kg |        | 0.05  | 0.12  |  |        | 0.14  |
| Nickel                          | DETSC 2301# | 1     | mg/kg |        | 17    | 18    |  |        | 19    |
| Selenium                        | DETSC 2301# | 0.5   | mg/kg |        | 0.6   | 0.6   |  |        | 0.6   |
| Vanadium                        | DETSC 2301# | 0.8   | mg/kg |        | 30    | 30    |  |        | 30    |
| Zinc                            | DETSC 2301# | 1     | mg/kg |        | 110   | 100   |  |        | 97    |
| <b>Inorganics</b>               |             |       |       |        |       |       |  |        |       |
| pH                              | DETSC 2008# |       | pH    |        | 7.4   | 6.4   |  |        | 6.0   |
| Cyanide, Total                  | DETSC 2130# | 0.1   | mg/kg |        | 0.5   | 1.0   |  |        | 0.9   |
| FOC                             | DETSC 2084# | 0.001 |       |        | 0.010 | 0.047 |  |        | 0.044 |
| Total Organic Carbon            | DETSC 2084# | 0.5   | %     |        | 1.0   | 4.7   |  |        | 4.4   |
| Sulphate Aqueous Extract as SO4 | DETSC 2076# | 10    | mg/l  |        | 1400  | 69    |  |        | 340   |
| Sulphate as SO4, Total          | DETSC 2321# | 0.01  | %     |        | 0.26  | 0.07  |  |        | 0.14  |
| <b>Petroleum Hydrocarbons</b>   |             |       |       |        |       |       |  |        |       |
| Aliphatic C5-C6                 | DETSC 3321* | 0.01  | mg/kg | < 0.01 |       |       |  | < 0.01 |       |
| Aliphatic C6-C8                 | DETSC 3321* | 0.01  | mg/kg | < 0.01 |       |       |  | < 0.01 |       |
| Aliphatic C8-C10                | DETSC 3321* | 0.01  | mg/kg | < 0.01 |       |       |  | < 0.01 |       |
| Aliphatic C10-C12               | DETSC 3072# | 1.5   | mg/kg | < 1.5  |       |       |  | < 1.5  |       |
| Aliphatic C12-C16               | DETSC 3072# | 1.2   | mg/kg | < 1.2  |       |       |  | < 1.2  |       |
| Aliphatic C16-C21               | DETSC 3072# | 1.5   | mg/kg | < 1.5  |       |       |  | < 1.5  |       |
| Aliphatic C21-C35               | DETSC 3072# | 3.4   | mg/kg | < 3.4  |       |       |  | < 3.4  |       |
| Aliphatic C5-C35                | DETSC 3072* | 10    | mg/kg | < 10   |       |       |  | < 10   |       |
| Aromatic C5-C7                  | DETSC 3321* | 0.01  | mg/kg | < 0.01 |       |       |  | < 0.01 |       |
| Aromatic C7-C8                  | DETSC 3321* | 0.01  | mg/kg | < 0.01 |       |       |  | < 0.01 |       |
| Aromatic C8-C10                 | DETSC 3321* | 0.01  | mg/kg | < 0.01 |       |       |  | < 0.01 |       |
| Aromatic C10-C12                | DETSC 3072# | 0.9   | mg/kg | < 0.9  |       |       |  | < 0.9  |       |
| Aromatic C12-C16                | DETSC 3072# | 0.5   | mg/kg | < 0.5  |       |       |  | < 0.5  |       |
| Aromatic C16-C21                | DETSC 3072# | 0.6   | mg/kg | < 0.6  |       |       |  | < 0.6  |       |
| Aromatic C21-C35                | DETSC 3072# | 1.4   | mg/kg | < 1.4  |       |       |  | < 1.4  |       |
| Aromatic C5-C35                 | DETSC 3072* | 10    | mg/kg | < 10   |       |       |  | < 10   |       |
| TPH Ali/Aro Total C5-C35        | DETSC 3072* | 10    | mg/kg | < 10   |       |       |  | < 10   |       |
| Benzene                         | DETSC 3321# | 0.01  | mg/kg | < 0.01 |       |       |  | < 0.01 |       |
| Ethylbenzene                    | DETSC 3321# | 0.01  | mg/kg | < 0.01 |       |       |  | < 0.01 |       |
| Toluene                         | DETSC 3321# | 0.01  | mg/kg | < 0.01 |       |       |  | < 0.01 |       |
| Xylene                          | DETSC 3321# | 0.01  | mg/kg | < 0.01 |       |       |  | < 0.01 |       |

# Summary of Chemical Analysis

## Soil Samples

Our Ref 21-11205

Client Ref 7791

Contract Title (7791) Gatewen Road, Wrexham

| Lab No        | 1853546    | 1853547    | 1853549    | 1853550    | 1853551    | 1853552    |
|---------------|------------|------------|------------|------------|------------|------------|
| Sample ID     | TP102      | TP102      | TP104      | TP105      | TP105      | TP106      |
| Depth         | 0.10       | 0.40       | 0.15       | 0.10       | 0.50       | 0.10       |
| Other ID      |            |            |            |            |            |            |
| Sample Type   | SOIL       | SOIL       | SOIL       | SOIL       | SOIL       | SOIL       |
| Sampling Date | 24/05/2021 | 24/05/2021 | 24/05/2021 | 24/05/2021 | 24/05/2021 | 24/05/2021 |
| Sampling Time | n/s        | n/s        | n/s        | n/s        | n/s        | n/s        |

| Test                             | Method      | LOD  | Units |  |        |        |  |  |        |
|----------------------------------|-------------|------|-------|--|--------|--------|--|--|--------|
| <b>PAHs</b>                      |             |      |       |  |        |        |  |  |        |
| Naphthalene                      | DETSC 3303# | 0.03 | mg/kg |  | < 0.03 | < 0.03 |  |  | < 0.03 |
| Acenaphthylene                   | DETSC 3303# | 0.03 | mg/kg |  | < 0.03 | < 0.03 |  |  | < 0.03 |
| Acenaphthene                     | DETSC 3303# | 0.03 | mg/kg |  | < 0.03 | < 0.03 |  |  | < 0.03 |
| Fluorene                         | DETSC 3303  | 0.03 | mg/kg |  | < 0.03 | < 0.03 |  |  | < 0.03 |
| Phenanthrene                     | DETSC 3303# | 0.03 | mg/kg |  | < 0.03 | 0.04   |  |  | 0.03   |
| Anthracene                       | DETSC 3303  | 0.03 | mg/kg |  | < 0.03 | < 0.03 |  |  | < 0.03 |
| Fluoranthene                     | DETSC 3303# | 0.03 | mg/kg |  | < 0.03 | 0.07   |  |  | 0.05   |
| Pyrene                           | DETSC 3303# | 0.03 | mg/kg |  | < 0.03 | 0.06   |  |  | 0.04   |
| Benzo(a)anthracene               | DETSC 3303# | 0.03 | mg/kg |  | < 0.03 | < 0.03 |  |  | < 0.03 |
| Chrysene                         | DETSC 3303  | 0.03 | mg/kg |  | < 0.03 | < 0.03 |  |  | < 0.03 |
| Benzo(b)fluoranthene             | DETSC 3303# | 0.03 | mg/kg |  | < 0.03 | 0.03   |  |  | < 0.03 |
| Benzo(k)fluoranthene             | DETSC 3303# | 0.03 | mg/kg |  | < 0.03 | < 0.03 |  |  | < 0.03 |
| Benzo(a)pyrene                   | DETSC 3303# | 0.03 | mg/kg |  | < 0.03 | < 0.03 |  |  | < 0.03 |
| Indeno(1,2,3-c,d)pyrene          | DETSC 3303# | 0.03 | mg/kg |  | < 0.03 | < 0.03 |  |  | < 0.03 |
| Dibenzo(a,h)anthracene           | DETSC 3303# | 0.03 | mg/kg |  | < 0.03 | < 0.03 |  |  | < 0.03 |
| Benzo(g,h,i)perylene             | DETSC 3303# | 0.03 | mg/kg |  | < 0.03 | < 0.03 |  |  | < 0.03 |
| PAH - USEPA 16, Total            | DETSC 3303  | 0.1  | mg/kg |  | < 0.10 | 0.17   |  |  | < 0.10 |
| <b>Phenols</b>                   |             |      |       |  |        |        |  |  |        |
| Phenol - Monohydric              | DETSC 2130# | 0.3  | mg/kg |  | < 0.3  | 0.5    |  |  | 0.5    |
| <b>OCPs</b>                      |             |      |       |  |        |        |  |  |        |
| alpha-BHC                        | DETSC 3441* | 0.1  | mg/kg |  |        | < 0.1  |  |  |        |
| gamma-BHC (Lindane)              | DETSC 3441* | 0.1  | mg/kg |  |        | < 0.1  |  |  |        |
| beta-BHC                         | DETSC 3441* | 0.1  | mg/kg |  |        | < 0.1  |  |  |        |
| delta-BHC                        | DETSC 3441* | 0.1  | mg/kg |  |        | < 0.1  |  |  |        |
| Heptachlor                       | DETSC 3441* | 0.1  | mg/kg |  |        | < 0.1  |  |  |        |
| Aldrin                           | DETSC 3441* | 0.1  | mg/kg |  |        | < 0.1  |  |  |        |
| Heptachlor epoxide               | DETSC 3441* | 0.1  | mg/kg |  |        | < 0.1  |  |  |        |
| gamma-Chlordane                  | DETSC 3441* | 0.1  | mg/kg |  |        | < 0.1  |  |  |        |
| Endosulphan I & Alpha-chlorodane | DETSC 3441* | 0.1  | mg/kg |  |        | < 0.1  |  |  |        |
| 4,4-DDE                          | DETSC 3441* | 0.1  | mg/kg |  |        | < 0.1  |  |  |        |
| Dieldrin                         | DETSC 3441* | 0.1  | mg/kg |  |        | < 0.1  |  |  |        |
| Endrin                           | DETSC 3441* | 0.1  | mg/kg |  |        | < 0.1  |  |  |        |
| Endosulphan II & 4,4-DDD         | DETSC 3441* | 0.1  | mg/kg |  |        | < 0.1  |  |  |        |
| Endrin aldehyde                  | DETSC 3441* | 0.1  | mg/kg |  |        | < 0.1  |  |  |        |
| 4,4-DDT                          | DETSC 3441* | 0.1  | mg/kg |  |        | < 0.1  |  |  |        |
| Endosulphan sulphate             | DETSC 3441* | 0.1  | mg/kg |  |        | < 0.1  |  |  |        |
| Methoxychlor                     | DETSC 3441* | 0.1  | mg/kg |  |        | < 0.1  |  |  |        |
| Endrin ketone                    | DETSC 3441* | 0.1  | mg/kg |  |        | < 0.1  |  |  |        |
| <b>OPPs</b>                      |             |      |       |  |        |        |  |  |        |
| Dichlorvos                       | DETSC 3443* | 0.1  | mg/kg |  |        | < 0.1  |  |  |        |

## Summary of Chemical Analysis

### Soil Samples

Our Ref 21-11205

Client Ref 7791

Contract Title (7791) Gatewen Road, Wrexham

| Lab No        | 1853546    | 1853547    | 1853549    | 1853550    | 1853551    | 1853552    |
|---------------|------------|------------|------------|------------|------------|------------|
| Sample ID     | TP102      | TP102      | TP104      | TP105      | TP105      | TP106      |
| Depth         | 0.10       | 0.40       | 0.15       | 0.10       | 0.50       | 0.10       |
| Other ID      |            |            |            |            |            |            |
| Sample Type   | SOIL       | SOIL       | SOIL       | SOIL       | SOIL       | SOIL       |
| Sampling Date | 24/05/2021 | 24/05/2021 | 24/05/2021 | 24/05/2021 | 24/05/2021 | 24/05/2021 |
| Sampling Time | n/s        | n/s        | n/s        | n/s        | n/s        | n/s        |

| Test             | Method     | LOD | Units |  |  |  |       |  |  |
|------------------|------------|-----|-------|--|--|--|-------|--|--|
| Mevinphos        | DETS 3443* | 0.1 | mg/kg |  |  |  | < 0.1 |  |  |
| Demeton-O        | DETS 3443* | 0.1 | mg/kg |  |  |  | < 0.1 |  |  |
| Ethoprop         | DETS 3443* | 0.1 | mg/kg |  |  |  | < 0.1 |  |  |
| Naled            | DETS 3443* | 0.1 | mg/kg |  |  |  | < 0.1 |  |  |
| Phorate          | DETS 3443* | 0.1 | mg/kg |  |  |  | < 0.1 |  |  |
| Demeton-S        | DETS 3443* | 0.1 | mg/kg |  |  |  | < 0.1 |  |  |
| Diazinon         | DETS 3443* | 0.1 | mg/kg |  |  |  | < 0.1 |  |  |
| Disulfoton       | DETS 3443* | 0.1 | mg/kg |  |  |  | < 0.1 |  |  |
| Methylparathion  | DETS 3443* | 0.1 | mg/kg |  |  |  | < 0.1 |  |  |
| Ronnel           | DETS 3443* | 0.1 | mg/kg |  |  |  | < 0.1 |  |  |
| Fenthion         | DETS 3443* | 0.1 | mg/kg |  |  |  | < 0.1 |  |  |
| Chlopyrifos      | DETS 3443* | 0.1 | mg/kg |  |  |  | < 0.1 |  |  |
| Trichlorinate    | DETS 3443* | 0.1 | mg/kg |  |  |  | < 0.1 |  |  |
| Merphos          | DETS 3443* | 0.1 | mg/kg |  |  |  | < 0.1 |  |  |
| Stirofos         | DETS 3443* | 0.1 | mg/kg |  |  |  | < 0.1 |  |  |
| Tokuthion        | DETS 3443* | 0.1 | mg/kg |  |  |  | < 0.1 |  |  |
| Fensulfothion    | DETS 3443* | 0.1 | mg/kg |  |  |  | < 0.1 |  |  |
| Bolstar          | DETS 3443* | 0.1 | mg/kg |  |  |  | < 0.1 |  |  |
| Azinphos methyl  | DETS 3443* | 0.1 | mg/kg |  |  |  | < 0.1 |  |  |
| Coumaphos        | DETS 3443* | 0.1 | mg/kg |  |  |  | < 0.1 |  |  |
| <b>Triazines</b> |            |     |       |  |  |  |       |  |  |
| Atraton          | DETS 3445* | 0.1 | mg/kg |  |  |  | < 0.1 |  |  |
| Prometon         | DETS 3445* | 0.1 | mg/kg |  |  |  | < 0.1 |  |  |
| Simazine         | DETS 3445* | 0.1 | mg/kg |  |  |  | < 0.1 |  |  |
| Atrazine         | DETS 3445* | 0.1 | mg/kg |  |  |  | < 0.1 |  |  |
| Propazine        | DETS 3445* | 0.1 | mg/kg |  |  |  | < 0.1 |  |  |
| Terbutylazine    | DETS 3445* | 0.1 | mg/kg |  |  |  | < 0.1 |  |  |
| Secbumeton       | DETS 3445* | 0.1 | mg/kg |  |  |  | < 0.1 |  |  |
| Symetryn         | DETS 3445* | 0.1 | mg/kg |  |  |  | < 0.1 |  |  |
| Ametryn          | DETS 3445* | 0.1 | mg/kg |  |  |  | < 0.1 |  |  |
| Prometryne       | DETS 3445* | 0.1 | mg/kg |  |  |  | < 0.1 |  |  |
| Terbutryn        | DETS 3445* | 0.1 | mg/kg |  |  |  | < 0.1 |  |  |

# Summary of Chemical Analysis

## Soil Samples

Our Ref 21-11205

Client Ref 7791

Contract Title (7791) Gatewen Road, Wrexham

| Lab No        | 1853554    | 1853555    | 1853556    | 1853557    | 1853558    | 1853561    |
|---------------|------------|------------|------------|------------|------------|------------|
| Sample ID     | TP107      | TP108      | TP109      | TP110      | TP110      | TP113      |
| Depth         | 0.40       | 0.15       | 0.10       | 0.10       | 0.40       | 0.10       |
| Other ID      |            |            |            |            |            |            |
| Sample Type   | SOIL       | SOIL       | SOIL       | SOIL       | SOIL       | SOIL       |
| Sampling Date | 24/05/2021 | 24/05/2021 | 24/05/2021 | 24/05/2021 | 24/05/2021 | 24/05/2021 |
| Sampling Time | n/s        | n/s        | n/s        | n/s        | n/s        | n/s        |

| Test                            | Method      | LOD   | Units |        |       |       |       |        |       |
|---------------------------------|-------------|-------|-------|--------|-------|-------|-------|--------|-------|
| <b>Metals</b>                   |             |       |       |        |       |       |       |        |       |
| Arsenic                         | DETSC 2301# | 0.2   | mg/kg | 9.4    | 11    | 12    | 12    |        | 10    |
| Beryllium                       | DETSC 2301# | 0.2   | mg/kg | 0.8    | 0.7   | 0.7   | 0.8   |        | 0.5   |
| Boron, Water Soluble            | DETSC 2311# | 0.2   | mg/kg | 0.2    | 0.5   | 0.9   | 0.4   |        | 0.6   |
| Cadmium                         | DETSC 2301# | 0.1   | mg/kg | 0.2    | 0.7   | 0.5   | 0.5   |        | 0.3   |
| Chromium                        | DETSC 2301# | 0.15  | mg/kg | 21     | 17    | 16    | 16    |        | 16    |
| Chromium, Hexavalent            | DETSC 2204* | 1     | mg/kg | < 1.0  | < 1.0 | < 1.0 | < 1.0 |        | < 1.0 |
| Copper                          | DETSC 2301# | 0.2   | mg/kg | 22     | 28    | 28    | 30    |        | 25    |
| Lead                            | DETSC 2301# | 0.3   | mg/kg | 35     | 82    | 80    | 84    |        | 72    |
| Mercury                         | DETSC 2325# | 0.05  | mg/kg | < 0.05 | 0.14  | 0.11  | 0.13  |        | 0.08  |
| Nickel                          | DETSC 2301# | 1     | mg/kg | 29     | 17    | 16    | 16    |        | 14    |
| Selenium                        | DETSC 2301# | 0.5   | mg/kg | < 0.5  | < 0.5 | 0.8   | < 0.5 |        | 0.8   |
| Vanadium                        | DETSC 2301# | 0.8   | mg/kg | 23     | 24    | 22    | 23    |        | 23    |
| Zinc                            | DETSC 2301# | 1     | mg/kg | 47     | 91    | 92    | 88    |        | 84    |
| <b>Inorganics</b>               |             |       |       |        |       |       |       |        |       |
| pH                              | DETSC 2008# |       | pH    | 6.9    | 5.5   | 6.3   | 6.5   |        | 6.0   |
| Cyanide, Total                  | DETSC 2130# | 0.1   | mg/kg | 0.1    | 0.8   | 1.2   | 1.3   |        | 1.2   |
| FOC                             | DETSC 2084# | 0.001 |       | 0.009  | 0.061 | 0.051 | 0.058 |        | 0.065 |
| Total Organic Carbon            | DETSC 2084# | 0.5   | %     | 0.9    | 6.1   | 5.1   | 5.8   |        | 6.5   |
| Sulphate Aqueous Extract as SO4 | DETSC 2076# | 10    | mg/l  | 14     | 350   | 26    | 79    |        | 57    |
| Sulphate as SO4, Total          | DETSC 2321# | 0.01  | %     | 0.02   | 0.11  | 0.09  | 0.14  |        | 0.14  |
| <b>Petroleum Hydrocarbons</b>   |             |       |       |        |       |       |       |        |       |
| Aliphatic C5-C6                 | DETSC 3321* | 0.01  | mg/kg |        |       |       |       | < 0.01 |       |
| Aliphatic C6-C8                 | DETSC 3321* | 0.01  | mg/kg |        |       |       |       | < 0.01 |       |
| Aliphatic C8-C10                | DETSC 3321* | 0.01  | mg/kg |        |       |       |       | < 0.01 |       |
| Aliphatic C10-C12               | DETSC 3072# | 1.5   | mg/kg |        |       |       |       | < 1.5  |       |
| Aliphatic C12-C16               | DETSC 3072# | 1.2   | mg/kg |        |       |       |       | < 1.2  |       |
| Aliphatic C16-C21               | DETSC 3072# | 1.5   | mg/kg |        |       |       |       | < 1.5  |       |
| Aliphatic C21-C35               | DETSC 3072# | 3.4   | mg/kg |        |       |       |       | < 3.4  |       |
| Aliphatic C5-C35                | DETSC 3072* | 10    | mg/kg |        |       |       |       | < 10   |       |
| Aromatic C5-C7                  | DETSC 3321* | 0.01  | mg/kg |        |       |       |       | < 0.01 |       |
| Aromatic C7-C8                  | DETSC 3321* | 0.01  | mg/kg |        |       |       |       | < 0.01 |       |
| Aromatic C8-C10                 | DETSC 3321* | 0.01  | mg/kg |        |       |       |       | < 0.01 |       |
| Aromatic C10-C12                | DETSC 3072# | 0.9   | mg/kg |        |       |       |       | < 0.9  |       |
| Aromatic C12-C16                | DETSC 3072# | 0.5   | mg/kg |        |       |       |       | < 0.5  |       |
| Aromatic C16-C21                | DETSC 3072# | 0.6   | mg/kg |        |       |       |       | < 0.6  |       |
| Aromatic C21-C35                | DETSC 3072# | 1.4   | mg/kg |        |       |       |       | < 1.4  |       |
| Aromatic C5-C35                 | DETSC 3072* | 10    | mg/kg |        |       |       |       | < 10   |       |
| TPH Ali/Aro Total C5-C35        | DETSC 3072* | 10    | mg/kg |        |       |       |       | < 10   |       |
| Benzene                         | DETSC 3321# | 0.01  | mg/kg |        |       |       |       | < 0.01 |       |
| Ethylbenzene                    | DETSC 3321# | 0.01  | mg/kg |        |       |       |       | < 0.01 |       |
| Toluene                         | DETSC 3321# | 0.01  | mg/kg |        |       |       |       | < 0.01 |       |
| Xylene                          | DETSC 3321# | 0.01  | mg/kg |        |       |       |       | < 0.01 |       |

# Summary of Chemical Analysis

## Soil Samples

Our Ref 21-11205

Client Ref 7791

Contract Title (7791) Gatewen Road, Wrexham

| Lab No        | 1853554    | 1853555    | 1853556    | 1853557    | 1853558    | 1853561    |
|---------------|------------|------------|------------|------------|------------|------------|
| Sample ID     | TP107      | TP108      | TP109      | TP110      | TP110      | TP113      |
| Depth         | 0.40       | 0.15       | 0.10       | 0.10       | 0.40       | 0.10       |
| Other ID      |            |            |            |            |            |            |
| Sample Type   | SOIL       | SOIL       | SOIL       | SOIL       | SOIL       | SOIL       |
| Sampling Date | 24/05/2021 | 24/05/2021 | 24/05/2021 | 24/05/2021 | 24/05/2021 | 24/05/2021 |
| Sampling Time | n/s        | n/s        | n/s        | n/s        | n/s        | n/s        |

| Test                             | Method      | LOD  | Units |        |        |        |        |  |        |
|----------------------------------|-------------|------|-------|--------|--------|--------|--------|--|--------|
| <b>PAHs</b>                      |             |      |       |        |        |        |        |  |        |
| Naphthalene                      | DETSC 3303# | 0.03 | mg/kg | < 0.03 | < 0.03 | < 0.03 | < 0.03 |  | < 0.03 |
| Acenaphthylene                   | DETSC 3303# | 0.03 | mg/kg | < 0.03 | < 0.03 | < 0.03 | < 0.03 |  | < 0.03 |
| Acenaphthene                     | DETSC 3303# | 0.03 | mg/kg | < 0.03 | < 0.03 | < 0.03 | < 0.03 |  | < 0.03 |
| Fluorene                         | DETSC 3303  | 0.03 | mg/kg | < 0.03 | < 0.03 | < 0.03 | < 0.03 |  | < 0.03 |
| Phenanthrene                     | DETSC 3303# | 0.03 | mg/kg | < 0.03 | 0.05   | 0.05   | < 0.03 |  | 0.05   |
| Anthracene                       | DETSC 3303  | 0.03 | mg/kg | < 0.03 | < 0.03 | < 0.03 | < 0.03 |  | < 0.03 |
| Fluoranthene                     | DETSC 3303# | 0.03 | mg/kg | < 0.03 | 0.04   | 0.08   | 0.04   |  | 0.11   |
| Pyrene                           | DETSC 3303# | 0.03 | mg/kg | < 0.03 | 0.03   | 0.07   | 0.03   |  | 0.09   |
| Benzo(a)anthracene               | DETSC 3303# | 0.03 | mg/kg | < 0.03 | < 0.03 | 0.03   | < 0.03 |  | 0.04   |
| Chrysene                         | DETSC 3303  | 0.03 | mg/kg | < 0.03 | < 0.03 | 0.03   | < 0.03 |  | 0.04   |
| Benzo(b)fluoranthene             | DETSC 3303# | 0.03 | mg/kg | < 0.03 | < 0.03 | 0.04   | < 0.03 |  | 0.06   |
| Benzo(k)fluoranthene             | DETSC 3303# | 0.03 | mg/kg | < 0.03 | < 0.03 | < 0.03 | < 0.03 |  | < 0.03 |
| Benzo(a)pyrene                   | DETSC 3303# | 0.03 | mg/kg | < 0.03 | < 0.03 | < 0.03 | < 0.03 |  | 0.03   |
| Indeno(1,2,3-c,d)pyrene          | DETSC 3303# | 0.03 | mg/kg | < 0.03 | < 0.03 | < 0.03 | < 0.03 |  | < 0.03 |
| Dibenzo(a,h)anthracene           | DETSC 3303# | 0.03 | mg/kg | < 0.03 | < 0.03 | < 0.03 | < 0.03 |  | < 0.03 |
| Benzo(g,h,i)perylene             | DETSC 3303# | 0.03 | mg/kg | < 0.03 | < 0.03 | < 0.03 | < 0.03 |  | < 0.03 |
| PAH - USEPA 16, Total            | DETSC 3303  | 0.1  | mg/kg | < 0.10 | < 0.10 | 0.24   | < 0.10 |  | 0.26   |
| <b>Phenols</b>                   |             |      |       |        |        |        |        |  |        |
| Phenol - Monohydric              | DETSC 2130# | 0.3  | mg/kg | < 0.3  | 0.5    | 1.0    | 1.0    |  | 3.2    |
| <b>OCPs</b>                      |             |      |       |        |        |        |        |  |        |
| alpha-BHC                        | DETSC 3441* | 0.1  | mg/kg |        |        |        |        |  |        |
| gamma-BHC (Lindane)              | DETSC 3441* | 0.1  | mg/kg |        |        |        |        |  |        |
| beta-BHC                         | DETSC 3441* | 0.1  | mg/kg |        |        |        |        |  |        |
| delta-BHC                        | DETSC 3441* | 0.1  | mg/kg |        |        |        |        |  |        |
| Heptachlor                       | DETSC 3441* | 0.1  | mg/kg |        |        |        |        |  |        |
| Aldrin                           | DETSC 3441* | 0.1  | mg/kg |        |        |        |        |  |        |
| Heptachlor epoxide               | DETSC 3441* | 0.1  | mg/kg |        |        |        |        |  |        |
| gamma-Chlordane                  | DETSC 3441* | 0.1  | mg/kg |        |        |        |        |  |        |
| Endosulphan I & Alpha-chlorodane | DETSC 3441* | 0.1  | mg/kg |        |        |        |        |  |        |
| 4,4-DDE                          | DETSC 3441* | 0.1  | mg/kg |        |        |        |        |  |        |
| Dieldrin                         | DETSC 3441* | 0.1  | mg/kg |        |        |        |        |  |        |
| Endrin                           | DETSC 3441* | 0.1  | mg/kg |        |        |        |        |  |        |
| Endosulphan II & 4,4-DDD         | DETSC 3441* | 0.1  | mg/kg |        |        |        |        |  |        |
| Endrin aldehyde                  | DETSC 3441* | 0.1  | mg/kg |        |        |        |        |  |        |
| 4,4-DDT                          | DETSC 3441* | 0.1  | mg/kg |        |        |        |        |  |        |
| Endosulphan sulphate             | DETSC 3441* | 0.1  | mg/kg |        |        |        |        |  |        |
| Methoxychlor                     | DETSC 3441* | 0.1  | mg/kg |        |        |        |        |  |        |
| Endrin ketone                    | DETSC 3441* | 0.1  | mg/kg |        |        |        |        |  |        |
| <b>OPPs</b>                      |             |      |       |        |        |        |        |  |        |
| Dichlorvos                       | DETSC 3443* | 0.1  | mg/kg |        |        |        |        |  |        |

## Summary of Chemical Analysis

### Soil Samples

Our Ref 21-11205

Client Ref 7791

Contract Title (7791) Gatewen Road, Wrexham

| Lab No        | 1853554    | 1853555    | 1853556    | 1853557    | 1853558    | 1853561    |
|---------------|------------|------------|------------|------------|------------|------------|
| Sample ID     | TP107      | TP108      | TP109      | TP110      | TP110      | TP113      |
| Depth         | 0.40       | 0.15       | 0.10       | 0.10       | 0.40       | 0.10       |
| Other ID      |            |            |            |            |            |            |
| Sample Type   | SOIL       | SOIL       | SOIL       | SOIL       | SOIL       | SOIL       |
| Sampling Date | 24/05/2021 | 24/05/2021 | 24/05/2021 | 24/05/2021 | 24/05/2021 | 24/05/2021 |
| Sampling Time | n/s        | n/s        | n/s        | n/s        | n/s        | n/s        |

| Test             | Method     | LOD | Units |  |  |  |  |  |  |
|------------------|------------|-----|-------|--|--|--|--|--|--|
| Mevinphos        | DETS 3443* | 0.1 | mg/kg |  |  |  |  |  |  |
| Demeton-O        | DETS 3443* | 0.1 | mg/kg |  |  |  |  |  |  |
| Ethoprop         | DETS 3443* | 0.1 | mg/kg |  |  |  |  |  |  |
| Naled            | DETS 3443* | 0.1 | mg/kg |  |  |  |  |  |  |
| Phorate          | DETS 3443* | 0.1 | mg/kg |  |  |  |  |  |  |
| Demeton-S        | DETS 3443* | 0.1 | mg/kg |  |  |  |  |  |  |
| Diazinon         | DETS 3443* | 0.1 | mg/kg |  |  |  |  |  |  |
| Disulfoton       | DETS 3443* | 0.1 | mg/kg |  |  |  |  |  |  |
| Methylparathion  | DETS 3443* | 0.1 | mg/kg |  |  |  |  |  |  |
| Ronnel           | DETS 3443* | 0.1 | mg/kg |  |  |  |  |  |  |
| Fenthion         | DETS 3443* | 0.1 | mg/kg |  |  |  |  |  |  |
| Chlopyrifos      | DETS 3443* | 0.1 | mg/kg |  |  |  |  |  |  |
| Trichlorinate    | DETS 3443* | 0.1 | mg/kg |  |  |  |  |  |  |
| Merphos          | DETS 3443* | 0.1 | mg/kg |  |  |  |  |  |  |
| Stirofos         | DETS 3443* | 0.1 | mg/kg |  |  |  |  |  |  |
| Tokuthion        | DETS 3443* | 0.1 | mg/kg |  |  |  |  |  |  |
| Fensulfothion    | DETS 3443* | 0.1 | mg/kg |  |  |  |  |  |  |
| Bolstar          | DETS 3443* | 0.1 | mg/kg |  |  |  |  |  |  |
| Azinphos methyl  | DETS 3443* | 0.1 | mg/kg |  |  |  |  |  |  |
| Coumaphos        | DETS 3443* | 0.1 | mg/kg |  |  |  |  |  |  |
| <b>Triazines</b> |            |     |       |  |  |  |  |  |  |
| Atraton          | DETS 3445* | 0.1 | mg/kg |  |  |  |  |  |  |
| Prometon         | DETS 3445* | 0.1 | mg/kg |  |  |  |  |  |  |
| Simazine         | DETS 3445* | 0.1 | mg/kg |  |  |  |  |  |  |
| Atrazine         | DETS 3445* | 0.1 | mg/kg |  |  |  |  |  |  |
| Propazine        | DETS 3445* | 0.1 | mg/kg |  |  |  |  |  |  |
| Terbutylazine    | DETS 3445* | 0.1 | mg/kg |  |  |  |  |  |  |
| Secbumeton       | DETS 3445* | 0.1 | mg/kg |  |  |  |  |  |  |
| Symetryn         | DETS 3445* | 0.1 | mg/kg |  |  |  |  |  |  |
| Ametryn          | DETS 3445* | 0.1 | mg/kg |  |  |  |  |  |  |
| Prometryne       | DETS 3445* | 0.1 | mg/kg |  |  |  |  |  |  |
| Terbutryn        | DETS 3445* | 0.1 | mg/kg |  |  |  |  |  |  |

## Summary of Chemical Analysis

### Soil Samples

Our Ref 21-11205

Client Ref 7791

Contract Title (7791) Gatewen Road, Wrexham

|               |            |            |
|---------------|------------|------------|
| Lab No        | 1853562    | 1853563    |
| Sample ID     | TP114      | TP114      |
| Depth         | 0.10       | 0.60       |
| Other ID      |            |            |
| Sample Type   | SOIL       | SOIL       |
| Sampling Date | 24/05/2021 | 24/05/2021 |
| Sampling Time | n/s        | n/s        |

| Test                            | Method      | LOD   | Units |       |        |
|---------------------------------|-------------|-------|-------|-------|--------|
| <b>Metals</b>                   |             |       |       |       |        |
| Arsenic                         | DETSC 2301# | 0.2   | mg/kg | 12    | 7.7    |
| Beryllium                       | DETSC 2301# | 0.2   | mg/kg | 0.7   | 0.5    |
| Boron, Water Soluble            | DETSC 2311# | 0.2   | mg/kg | 0.3   | < 0.2  |
| Cadmium                         | DETSC 2301# | 0.1   | mg/kg | 0.6   | 0.2    |
| Chromium                        | DETSC 2301# | 0.15  | mg/kg | 18    | 14     |
| Chromium, Hexavalent            | DETSC 2204* | 1     | mg/kg | < 1.0 | < 1.0  |
| Copper                          | DETSC 2301# | 0.2   | mg/kg | 32    | 20     |
| Lead                            | DETSC 2301# | 0.3   | mg/kg | 110   | 30     |
| Mercury                         | DETSC 2325# | 0.05  | mg/kg | 0.12  | < 0.05 |
| Nickel                          | DETSC 2301# | 1     | mg/kg | 17    | 18     |
| Selenium                        | DETSC 2301# | 0.5   | mg/kg | 0.7   | < 0.5  |
| Vanadium                        | DETSC 2301# | 0.8   | mg/kg | 25    | 17     |
| Zinc                            | DETSC 2301# | 1     | mg/kg | 110   | 45     |
| <b>Inorganics</b>               |             |       |       |       |        |
| pH                              | DETSC 2008# |       | pH    | 6.8   | 6.7    |
| Cyanide, Total                  | DETSC 2130# | 0.1   | mg/kg | 1.1   | 0.2    |
| FOC                             | DETSC 2084# | 0.001 |       | 0.043 | 0.008  |
| Total Organic Carbon            | DETSC 2084# | 0.5   | %     | 4.3   | 0.8    |
| Sulphate Aqueous Extract as SO4 | DETSC 2076# | 10    | mg/l  | 47    | < 10   |
| Sulphate as SO4, Total          | DETSC 2321# | 0.01  | %     | 0.09  | 0.02   |
| <b>Petroleum Hydrocarbons</b>   |             |       |       |       |        |
| Aliphatic C5-C6                 | DETSC 3321* | 0.01  | mg/kg |       |        |
| Aliphatic C6-C8                 | DETSC 3321* | 0.01  | mg/kg |       |        |
| Aliphatic C8-C10                | DETSC 3321* | 0.01  | mg/kg |       |        |
| Aliphatic C10-C12               | DETSC 3072# | 1.5   | mg/kg |       |        |
| Aliphatic C12-C16               | DETSC 3072# | 1.2   | mg/kg |       |        |
| Aliphatic C16-C21               | DETSC 3072# | 1.5   | mg/kg |       |        |
| Aliphatic C21-C35               | DETSC 3072# | 3.4   | mg/kg |       |        |
| Aliphatic C5-C35                | DETSC 3072* | 10    | mg/kg |       |        |
| Aromatic C5-C7                  | DETSC 3321* | 0.01  | mg/kg |       |        |
| Aromatic C7-C8                  | DETSC 3321* | 0.01  | mg/kg |       |        |
| Aromatic C8-C10                 | DETSC 3321* | 0.01  | mg/kg |       |        |
| Aromatic C10-C12                | DETSC 3072# | 0.9   | mg/kg |       |        |
| Aromatic C12-C16                | DETSC 3072# | 0.5   | mg/kg |       |        |
| Aromatic C16-C21                | DETSC 3072# | 0.6   | mg/kg |       |        |
| Aromatic C21-C35                | DETSC 3072# | 1.4   | mg/kg |       |        |
| Aromatic C5-C35                 | DETSC 3072* | 10    | mg/kg |       |        |
| TPH Ali/Aro Total C5-C35        | DETSC 3072* | 10    | mg/kg |       |        |
| Benzene                         | DETSC 3321# | 0.01  | mg/kg |       |        |
| Ethylbenzene                    | DETSC 3321# | 0.01  | mg/kg |       |        |
| Toluene                         | DETSC 3321# | 0.01  | mg/kg |       |        |
| Xylene                          | DETSC 3321# | 0.01  | mg/kg |       |        |

## Summary of Chemical Analysis

### Soil Samples

Our Ref 21-11205

Client Ref 7791

Contract Title (7791) Gatewen Road, Wrexham

|               |            |            |
|---------------|------------|------------|
| Lab No        | 1853562    | 1853563    |
| Sample ID     | TP114      | TP114      |
| Depth         | 0.10       | 0.60       |
| Other ID      |            |            |
| Sample Type   | SOIL       | SOIL       |
| Sampling Date | 24/05/2021 | 24/05/2021 |
| Sampling Time | n/s        | n/s        |

| Test                             | Method      | LOD  | Units |        |        |
|----------------------------------|-------------|------|-------|--------|--------|
| <b>PAHs</b>                      |             |      |       |        |        |
| Naphthalene                      | DETSC 3303# | 0.03 | mg/kg | < 0.03 | < 0.03 |
| Acenaphthylene                   | DETSC 3303# | 0.03 | mg/kg | < 0.03 | < 0.03 |
| Acenaphthene                     | DETSC 3303# | 0.03 | mg/kg | < 0.03 | < 0.03 |
| Fluorene                         | DETSC 3303  | 0.03 | mg/kg | < 0.03 | < 0.03 |
| Phenanthrene                     | DETSC 3303# | 0.03 | mg/kg | 0.07   | < 0.03 |
| Anthracene                       | DETSC 3303  | 0.03 | mg/kg | < 0.03 | < 0.03 |
| Fluoranthene                     | DETSC 3303# | 0.03 | mg/kg | 0.18   | < 0.03 |
| Pyrene                           | DETSC 3303# | 0.03 | mg/kg | 0.16   | < 0.03 |
| Benzo(a)anthracene               | DETSC 3303# | 0.03 | mg/kg | 0.07   | < 0.03 |
| Chrysene                         | DETSC 3303  | 0.03 | mg/kg | 0.07   | < 0.03 |
| Benzo(b)fluoranthene             | DETSC 3303# | 0.03 | mg/kg | 0.09   | < 0.03 |
| Benzo(k)fluoranthene             | DETSC 3303# | 0.03 | mg/kg | 0.03   | < 0.03 |
| Benzo(a)pyrene                   | DETSC 3303# | 0.03 | mg/kg | 0.05   | < 0.03 |
| Indeno(1,2,3-c,d)pyrene          | DETSC 3303# | 0.03 | mg/kg | < 0.03 | < 0.03 |
| Dibenzo(a,h)anthracene           | DETSC 3303# | 0.03 | mg/kg | < 0.03 | < 0.03 |
| Benzo(g,h,i)perylene             | DETSC 3303# | 0.03 | mg/kg | < 0.03 | < 0.03 |
| PAH - USEPA 16, Total            | DETSC 3303  | 0.1  | mg/kg | 0.69   | < 0.10 |
| <b>Phenols</b>                   |             |      |       |        |        |
| Phenol - Monohydric              | DETSC 2130# | 0.3  | mg/kg | 0.6    | < 0.3  |
| <b>OCPs</b>                      |             |      |       |        |        |
| alpha-BHC                        | DETSC 3441* | 0.1  | mg/kg |        |        |
| gamma-BHC (Lindane)              | DETSC 3441* | 0.1  | mg/kg |        |        |
| beta-BHC                         | DETSC 3441* | 0.1  | mg/kg |        |        |
| delta-BHC                        | DETSC 3441* | 0.1  | mg/kg |        |        |
| Heptachlor                       | DETSC 3441* | 0.1  | mg/kg |        |        |
| Aldrin                           | DETSC 3441* | 0.1  | mg/kg |        |        |
| Heptachlor epoxide               | DETSC 3441* | 0.1  | mg/kg |        |        |
| gamma-Chlordane                  | DETSC 3441* | 0.1  | mg/kg |        |        |
| Endosulphan I & Alpha-chlorodane | DETSC 3441* | 0.1  | mg/kg |        |        |
| 4,4-DDE                          | DETSC 3441* | 0.1  | mg/kg |        |        |
| Dieldrin                         | DETSC 3441* | 0.1  | mg/kg |        |        |
| Endrin                           | DETSC 3441* | 0.1  | mg/kg |        |        |
| Endosulphan II & 4,4-DDD         | DETSC 3441* | 0.1  | mg/kg |        |        |
| Endrin aldehyde                  | DETSC 3441* | 0.1  | mg/kg |        |        |
| 4,4-DDT                          | DETSC 3441* | 0.1  | mg/kg |        |        |
| Endosulphan sulphate             | DETSC 3441* | 0.1  | mg/kg |        |        |
| Methoxychlor                     | DETSC 3441* | 0.1  | mg/kg |        |        |
| Endrin ketone                    | DETSC 3441* | 0.1  | mg/kg |        |        |
| <b>OPPs</b>                      |             |      |       |        |        |
| Dichlorvos                       | DETSC 3443* | 0.1  | mg/kg |        |        |

## Summary of Chemical Analysis

### Soil Samples

Our Ref 21-11205

Client Ref 7791

Contract Title (7791) Gatewen Road, Wrexham

|               |            |            |
|---------------|------------|------------|
| Lab No        | 1853562    | 1853563    |
| Sample ID     | TP114      | TP114      |
| Depth         | 0.10       | 0.60       |
| Other ID      |            |            |
| Sample Type   | SOIL       | SOIL       |
| Sampling Date | 24/05/2021 | 24/05/2021 |
| Sampling Time | n/s        | n/s        |

| Test             | Method      | LOD | Units |  |  |
|------------------|-------------|-----|-------|--|--|
| Mevinphos        | DETSC 3443* | 0.1 | mg/kg |  |  |
| Demeton-O        | DETSC 3443* | 0.1 | mg/kg |  |  |
| Ethoprop         | DETSC 3443* | 0.1 | mg/kg |  |  |
| Naled            | DETSC 3443* | 0.1 | mg/kg |  |  |
| Phorate          | DETSC 3443* | 0.1 | mg/kg |  |  |
| Demeton-S        | DETSC 3443* | 0.1 | mg/kg |  |  |
| Diazinon         | DETSC 3443* | 0.1 | mg/kg |  |  |
| Disulfoton       | DETSC 3443* | 0.1 | mg/kg |  |  |
| Methylparathion  | DETSC 3443* | 0.1 | mg/kg |  |  |
| Ronnel           | DETSC 3443* | 0.1 | mg/kg |  |  |
| Fenthion         | DETSC 3443* | 0.1 | mg/kg |  |  |
| Chlopyrifos      | DETSC 3443* | 0.1 | mg/kg |  |  |
| Trichlorinate    | DETSC 3443* | 0.1 | mg/kg |  |  |
| Merphos          | DETSC 3443* | 0.1 | mg/kg |  |  |
| Stirofos         | DETSC 3443* | 0.1 | mg/kg |  |  |
| Tokuthion        | DETSC 3443* | 0.1 | mg/kg |  |  |
| Fensulfothion    | DETSC 3443* | 0.1 | mg/kg |  |  |
| Bolstar          | DETSC 3443* | 0.1 | mg/kg |  |  |
| Azinphos methyl  | DETSC 3443* | 0.1 | mg/kg |  |  |
| Coumaphos        | DETSC 3443* | 0.1 | mg/kg |  |  |
| <b>Triazines</b> |             |     |       |  |  |
| Atraton          | DETSC 3445* | 0.1 | mg/kg |  |  |
| Prometon         | DETSC 3445* | 0.1 | mg/kg |  |  |
| Simazine         | DETSC 3445* | 0.1 | mg/kg |  |  |
| Atrazine         | DETSC 3445* | 0.1 | mg/kg |  |  |
| Propazine        | DETSC 3445* | 0.1 | mg/kg |  |  |
| Terbutylazine    | DETSC 3445* | 0.1 | mg/kg |  |  |
| Secbumeton       | DETSC 3445* | 0.1 | mg/kg |  |  |
| Symetryn         | DETSC 3445* | 0.1 | mg/kg |  |  |
| Ametryn          | DETSC 3445* | 0.1 | mg/kg |  |  |
| Prometryne       | DETSC 3445* | 0.1 | mg/kg |  |  |
| Terbutryn        | DETSC 3445* | 0.1 | mg/kg |  |  |

# Summary of Chemical Analysis

## Soil VOC/SVOC Samples

Our Ref 21-11205

Client Ref 7791

Contract Title (7791) Gatewen Road, Wrexham

|               |            |            |
|---------------|------------|------------|
| Lab No        | 1853549    | 1853560    |
| Sample ID     | TP104      | TP112      |
| Depth         | 0.15       | 0.10       |
| Other ID      |            |            |
| Sample Type   | SOIL       | SOIL       |
| Sampling Date | 24/05/2021 | 24/05/2021 |
| Sampling Time | n/s        | n/s        |

| Test                       | Method      | LOD  | Units |        |        |
|----------------------------|-------------|------|-------|--------|--------|
| <b>VOCs</b>                |             |      |       |        |        |
| Vinyl Chloride             | DETSC 3431  | 0.01 | mg/kg | < 0.01 | < 0.01 |
| 1,1 Dichloroethylene       | DETSC 3431  | 0.01 | mg/kg | < 0.01 | < 0.01 |
| Trans-1,2-dichloroethylene | DETSC 3431  | 0.01 | mg/kg | < 0.01 | < 0.01 |
| 1,1-dichloroethane         | DETSC 3431  | 0.01 | mg/kg | < 0.01 | < 0.01 |
| Cis-1,2-dichloroethylene   | DETSC 3431  | 0.01 | mg/kg | < 0.01 | < 0.01 |
| 2,2-dichloropropane        | DETSC 3431  | 0.01 | mg/kg | < 0.01 | < 0.01 |
| Bromochloromethane         | DETSC 3431  | 0.01 | mg/kg | < 0.01 | < 0.01 |
| Chloroform                 | DETSC 3431  | 0.01 | mg/kg | < 0.01 | < 0.01 |
| 1,1,1-trichloroethane      | DETSC 3431  | 0.01 | mg/kg | < 0.01 | < 0.01 |
| 1,1-dichloropropene        | DETSC 3431  | 0.01 | mg/kg | < 0.01 | < 0.01 |
| Carbon tetrachloride       | DETSC 3431  | 0.01 | mg/kg | < 0.01 | < 0.01 |
| Benzene                    | DETSC 3431  | 0.01 | mg/kg | < 0.01 | < 0.01 |
| 1,2-dichloroethane         | DETSC 3431  | 0.01 | mg/kg | < 0.01 | < 0.01 |
| Trichloroethylene          | DETSC 3431  | 0.01 | mg/kg | < 0.01 | < 0.01 |
| 1,2-dichloropropane        | DETSC 3431  | 0.01 | mg/kg | < 0.01 | < 0.01 |
| Dibromomethane             | DETSC 3431  | 0.01 | mg/kg | < 0.01 | < 0.01 |
| Bromodichloromethane       | DETSC 3431  | 0.01 | mg/kg | < 0.01 | < 0.01 |
| cis-1,3-dichloropropene    | DETSC 3431  | 0.01 | mg/kg | < 0.01 | < 0.01 |
| Toluene                    | DETSC 3431  | 0.01 | mg/kg | < 0.01 | < 0.01 |
| trans-1,3-dichloropropene  | DETSC 3431  | 0.01 | mg/kg | < 0.01 | < 0.01 |
| 1,1,2-trichloroethane      | DETSC 3431  | 0.01 | mg/kg | < 0.01 | < 0.01 |
| Tetrachloroethylene        | DETSC 3431  | 0.01 | mg/kg | < 0.01 | < 0.01 |
| 1,3-dichloropropane        | DETSC 3431  | 0.01 | mg/kg | < 0.01 | < 0.01 |
| Dibromochloromethane       | DETSC 3431  | 0.01 | mg/kg | < 0.01 | < 0.01 |
| 1,2-dibromoethane          | DETSC 3431  | 0.01 | mg/kg | < 0.01 | < 0.01 |
| Chlorobenzene              | DETSC 3431  | 0.01 | mg/kg | < 0.01 | < 0.01 |
| 1,1,1,2-tetrachloroethane  | DETSC 3431  | 0.01 | mg/kg | < 0.01 | < 0.01 |
| Ethylbenzene               | DETSC 3431  | 0.01 | mg/kg | < 0.01 | < 0.01 |
| m+p-Xylene                 | DETSC 3431  | 0.01 | mg/kg | < 0.01 | < 0.01 |
| o-Xylene                   | DETSC 3431  | 0.01 | mg/kg | < 0.01 | < 0.01 |
| Styrene                    | DETSC 3431* | 0.01 | mg/kg | < 0.01 | < 0.01 |
| Bromoform                  | DETSC 3431  | 0.01 | mg/kg | < 0.01 | < 0.01 |
| Isopropylbenzene           | DETSC 3431  | 0.01 | mg/kg | < 0.01 | < 0.01 |
| Bromobenzene               | DETSC 3431  | 0.01 | mg/kg | < 0.01 | < 0.01 |
| 1,2,3-trichloropropane     | DETSC 3431  | 0.01 | mg/kg | < 0.01 | < 0.01 |
| n-propylbenzene            | DETSC 3431  | 0.01 | mg/kg | < 0.01 | < 0.01 |
| 2-chlorotoluene            | DETSC 3431  | 0.01 | mg/kg | < 0.01 | < 0.01 |
| 1,3,5-trimethylbenzene     | DETSC 3431  | 0.01 | mg/kg | < 0.01 | < 0.01 |
| 4-chlorotoluene            | DETSC 3431  | 0.01 | mg/kg | < 0.01 | < 0.01 |
| Tert-butylbenzene          | DETSC 3431  | 0.01 | mg/kg | < 0.01 | < 0.01 |
| 1,2,4-trimethylbenzene     | DETSC 3431  | 0.01 | mg/kg | < 0.01 | < 0.01 |
| sec-butylbenzene           | DETSC 3431  | 0.01 | mg/kg | < 0.01 | < 0.01 |

## Summary of Chemical Analysis

### Soil VOC/SVOC Samples

Our Ref 21-11205

Client Ref 7791

Contract Title (7791) Gatewen Road, Wrexham

|               |            |            |
|---------------|------------|------------|
| Lab No        | 1853549    | 1853560    |
| Sample ID     | TP104      | TP112      |
| Depth         | 0.15       | 0.10       |
| Other ID      |            |            |
| Sample Type   | SOIL       | SOIL       |
| Sampling Date | 24/05/2021 | 24/05/2021 |
| Sampling Time | n/s        | n/s        |

| Test                        | Method      | LOD  | Units |        |        |
|-----------------------------|-------------|------|-------|--------|--------|
| p-isopropyltoluene          | DETSC 3431  | 0.01 | mg/kg | < 0.01 | < 0.01 |
| 1,3-dichlorobenzene         | DETSC 3431  | 0.01 | mg/kg | < 0.01 | < 0.01 |
| 1,4-dichlorobenzene         | DETSC 3431  | 0.01 | mg/kg | < 0.01 | < 0.01 |
| n-butylbenzene              | DETSC 3431  | 0.01 | mg/kg | < 0.01 | < 0.01 |
| 1,2-dichlorobenzene         | DETSC 3431  | 0.01 | mg/kg | < 0.01 | < 0.01 |
| 1,2-dibromo-3-chloropropane | DETSC 3431  | 0.01 | mg/kg | < 0.01 | < 0.01 |
| 1,2,4-trichlorobenzene      | DETSC 3431  | 0.01 | mg/kg | < 0.01 | < 0.01 |
| Hexachlorobutadiene         | DETSC 3431  | 0.01 | mg/kg | < 0.01 | < 0.01 |
| Naphthalene                 | DETSC 3431  | 0.01 | mg/kg |        | < 0.01 |
| 1,2,3-trichlorobenzene      | DETSC 3431  | 0.01 | mg/kg | < 0.01 | < 0.01 |
| MTBE                        | DETSC 3431* | 0.01 | mg/kg | < 0.01 | < 0.01 |
| <b>SVOCs</b>                |             |      |       |        |        |
| Phenol                      | DETSC 3433  | 0.1  | mg/kg | < 0.1  | < 0.1  |
| Aniline                     | DETSC 3433* | 0.1  | mg/kg | < 0.1  | < 0.1  |
| 2-Chlorophenol              | DETSC 3433  | 0.1  | mg/kg | < 0.1  | < 0.1  |
| Benzyl Alcohol              | DETSC 3433  | 0.1  | mg/kg | < 0.1  | < 0.1  |
| 2-Methylphenol              | DETSC 3433  | 0.1  | mg/kg | < 0.1  | < 0.1  |
| Bis(2-chloroisopropyl)ether | DETSC 3433  | 0.1  | mg/kg | < 0.1  | < 0.1  |
| 3&4-Methylphenol            | DETSC 3433  | 0.1  | mg/kg | < 0.1  | < 0.1  |
| 2,4-Dimethylphenol          | DETSC 3433  | 0.1  | mg/kg | < 0.1  | < 0.1  |
| Bis-(dichloroethoxy)methane | DETSC 3433  | 0.1  | mg/kg | < 0.1  | < 0.1  |
| 2,4-Dichlorophenol          | DETSC 3433  | 0.1  | mg/kg | < 0.1  | < 0.1  |
| 1,2,4-Trichlorobenzene      | DETSC 3433  | 0.1  | mg/kg | < 0.1  | < 0.1  |
| 4-Chloro-3-methylphenol     | DETSC 3433  | 0.1  | mg/kg | < 0.1  | < 0.1  |
| 2-Methylnaphthalene         | DETSC 3433  | 0.1  | mg/kg | < 0.1  | < 0.1  |
| Hexachlorocyclopentadiene   | DETSC 3433* | 0.1  | mg/kg | < 0.1  | < 0.1  |
| 2,4,6-Trichlorophenol       | DETSC 3433  | 0.1  | mg/kg | < 0.1  | < 0.1  |
| 2,4,5-Trichlorophenol       | DETSC 3433* | 0.1  | mg/kg | < 0.1  | < 0.1  |
| 2-Chloronaphthalene         | DETSC 3433  | 0.1  | mg/kg | < 0.1  | < 0.1  |
| 2-Nitroaniline              | DETSC 3433* | 0.1  | mg/kg | < 0.1  | < 0.1  |
| 2,4-Dinitrotoluene          | DETSC 3433* | 0.1  | mg/kg | < 0.1  | < 0.1  |
| Acenaphthylene              | DETSC 3433  | 0.1  | mg/kg |        | < 0.1  |
| 3-Nitroaniline              | DETSC 3433* | 0.1  | mg/kg | < 0.1  | < 0.1  |
| Acenaphthene                | DETSC 3433  | 0.1  | mg/kg |        | < 0.1  |
| 4-Nitrophenol               | DETSC 3433* | 0.1  | mg/kg | < 0.1  | < 0.1  |
| Dibenzofuran                | DETSC 3433  | 0.1  | mg/kg | < 0.1  | < 0.1  |
| 2,6-Dinitrotoluene          | DETSC 3433  | 0.1  | mg/kg | < 0.1  | < 0.1  |
| 2,3,4,6-Tetrachlorophenol   | DETSC 3433* | 0.1  | mg/kg | < 0.1  | < 0.1  |
| Diethylphthalate            | DETSC 3433  | 0.1  | mg/kg | < 0.1  | < 0.1  |
| 4-Chlorophenylphenylether   | DETSC 3433* | 0.1  | mg/kg | < 0.1  | < 0.1  |
| Fluorene                    | DETSC 3433  | 0.1  | mg/kg |        | < 0.1  |

## Summary of Chemical Analysis

### Soil VOC/SVOC Samples

Our Ref 21-11205

Client Ref 7791

Contract Title (7791) Gatewen Road, Wrexham

|               |            |            |
|---------------|------------|------------|
| Lab No        | 1853549    | 1853560    |
| Sample ID     | TP104      | TP112      |
| Depth         | 0.15       | 0.10       |
| Other ID      |            |            |
| Sample Type   | SOIL       | SOIL       |
| Sampling Date | 24/05/2021 | 24/05/2021 |
| Sampling Time | n/s        | n/s        |

| Test                       | Method      | LOD | Units |       |       |
|----------------------------|-------------|-----|-------|-------|-------|
| 4-Nitroaniline             | DETSC 3433* | 0.1 | mg/kg | < 0.1 | < 0.1 |
| 2-Methyl-4,6-Dinitrophenol | DETSC 3433* | 0.1 | mg/kg | < 0.1 | < 0.1 |
| Diphenylamine              | DETSC 3433  | 0.1 | mg/kg | < 0.1 | < 0.1 |
| 4-Bromophenylphenylether   | DETSC 3433  | 0.1 | mg/kg | < 0.1 | < 0.1 |
| Hexachlorobenzene          | DETSC 3433  | 0.1 | mg/kg | < 0.1 | < 0.1 |
| Pentachlorophenol          | DETSC 3433* | 0.1 | mg/kg | < 0.1 | < 0.1 |
| Phenanthrene               | DETSC 3433  | 0.1 | mg/kg |       | < 0.1 |
| Anthracene                 | DETSC 3433  | 0.1 | mg/kg |       | < 0.1 |
| Di-n-butylphthalate        | DETSC 3433  | 0.1 | mg/kg | < 0.1 | < 0.1 |
| Fluoranthene               | DETSC 3433  | 0.1 | mg/kg |       | < 0.1 |
| Pyrene                     | DETSC 3433  | 0.1 | mg/kg |       | < 0.1 |
| Butylbenzylphthalate       | DETSC 3433* | 0.1 | mg/kg | < 0.1 | < 0.1 |
| Benzo(a)anthracene         | DETSC 3433  | 0.1 | mg/kg |       | < 0.1 |
| Chrysene                   | DETSC 3433  | 0.1 | mg/kg |       | < 0.1 |
| Bis(2-ethylhexyl)phthalate | DETSC 3433  | 0.1 | mg/kg | < 0.1 | < 0.1 |
| Di-n-octylphthalate        | DETSC 3433* | 0.1 | mg/kg | < 0.1 | < 0.1 |
| Benzo(b)fluoranthene       | DETSC 3433  | 0.1 | mg/kg |       | < 0.1 |
| Benzo(k)fluoranthene       | DETSC 3433  | 0.1 | mg/kg |       | < 0.1 |
| Benzo(a)pyrene             | DETSC 3433  | 0.1 | mg/kg |       | < 0.1 |
| Indeno(123cd)pyrene        | DETSC 3433  | 0.1 | mg/kg |       | < 0.1 |
| Dibenzo(ah)anthracene      | DETSC 3433  | 0.1 | mg/kg |       | < 0.1 |
| Benzo(ghi)perylene         | DETSC 3433  | 0.1 | mg/kg |       | < 0.1 |
| 1,4-Dinitrobenzene         | DETSC 3433* | 0.1 | mg/kg | < 0.1 | < 0.1 |
| Dimethylphthalate          | DETSC 3433  | 0.1 | mg/kg | < 0.1 | < 0.1 |
| 1,3-Dinitrobenzene         | DETSC 3433* | 0.1 | mg/kg | < 0.1 | < 0.1 |
| 1,2-Dinitrobenzene         | DETSC 3433* | 0.1 | mg/kg | < 0.1 | < 0.1 |
| 2,3,5,6-Tetrachlorophenol  | DETSC 3433* | 0.1 | mg/kg | < 0.1 | < 0.1 |
| Azobenzene                 | DETSC 3433  | 0.1 | mg/kg | < 0.1 | < 0.1 |
| Carbazole                  | DETSC 3433* | 0.1 | mg/kg | < 0.1 | < 0.1 |

## Summary of Asbestos Analysis Soil Samples

*Our Ref* 21-11205

*Client Ref* 7791

*Contract Title* (7791) Gatewen Road, Wrexham

| Lab No  | Sample ID  | Material Type | Result | Comment* | Analyst       |
|---------|------------|---------------|--------|----------|---------------|
| 1853545 | TP101 0.10 | SOIL          | NAD    | none     | Jordan Farley |
| 1853548 | TP103 0.10 | SOIL          | NAD    | none     | Jordan Farley |
| 1853549 | TP104 0.15 | SOIL          | NAD    | none     | Jordan Farley |
| 1853550 | TP105 0.10 | SOIL          | NAD    | none     | Jordan Farley |
| 1853553 | TP107 0.10 | SOIL          | NAD    | none     | Jordan Farley |
| 1853555 | TP108 0.15 | SOIL          | NAD    | none     | Jordan Farley |
| 1853556 | TP109 0.10 | SOIL          | NAD    | none     | Jordan Farley |
| 1853557 | TP110 0.10 | SOIL          | NAD    | none     | Jordan Farley |
| 1853559 | TP111 0.10 | SOIL          | NAD    | none     | Jordan Farley |
| 1853560 | TP112 0.10 | SOIL          | NAD    | none     | Jordan Farley |
| 1853561 | TP113 0.10 | SOIL          | NAD    | none     | Jordan Farley |
| 1853562 | TP114 0.10 | SOIL          | NAD    | none     | Jordan Farley |
| 1853564 | TP115 0.10 | SOIL          | NAD    | none     | Jordan Farley |

Crocidolite = Blue Asbestos, Amosite = Brown Asbestos, Chrysotile = White Asbestos. Anthophyllite, Actinolite and Tremolite are other forms of Asbestos. Samples are analysed by DETSC 1101 using polarised light microscopy in accordance with HSG248 and documented in-house methods. NAD = No Asbestos Detected. Where a sample is NAD, the result is based on analysis of at least 2 sub-samples and should be taken to mean 'no asbestos detected in sample'. Key: \* - not included in laboratory scope of accreditation.

## Information in Support of the Analytical Results

Our Ref 21-11205  
 Client Ref 7791  
 Contract (7791) Gatewen Road, Wrexham

### Containers Received & Deviating Samples

| Lab No  | Sample ID       | Date Sampled | Containers Received  | Hold time exceeded for tests | Inappropriate container for tests       |
|---------|-----------------|--------------|----------------------|------------------------------|-----------------------------------------|
| 1853545 | TP101 0.10 SOIL | 24/05/21     | PG                   |                              |                                         |
| 1853546 | TP102 0.10 SOIL | 24/05/21     | GJ 250ml x2, GJ 60ml |                              |                                         |
| 1853547 | TP102 0.40 SOIL | 24/05/21     | PG                   |                              |                                         |
| 1853548 | TP103 0.10 SOIL | 24/05/21     | PG                   |                              |                                         |
| 1853549 | TP104 0.15 SOIL | 24/05/21     | GJ 250ml x2, GJ 60ml |                              |                                         |
| 1853550 | TP105 0.10 SOIL | 24/05/21     | PG                   |                              | OC Pesticides, OP Pesticides, Triazines |
| 1853551 | TP105 0.50 SOIL | 24/05/21     | GJ 250ml x2, GJ 60ml |                              |                                         |
| 1853552 | TP106 0.10 SOIL | 24/05/21     | PG                   |                              |                                         |
| 1853553 | TP107 0.10 SOIL | 24/05/21     | PG                   |                              |                                         |
| 1853554 | TP107 0.40 SOIL | 24/05/21     | GJ 250ml x2, GJ 60ml |                              |                                         |
| 1853555 | TP108 0.15 SOIL | 24/05/21     | GJ 250ml x2, GJ 60ml |                              |                                         |
| 1853556 | TP109 0.10 SOIL | 24/05/21     | GJ 250ml x2, GJ 60ml |                              |                                         |
| 1853557 | TP110 0.10 SOIL | 24/05/21     | PG                   |                              |                                         |
| 1853558 | TP110 0.40 SOIL | 24/05/21     | GJ 250ml x2, GJ 60ml |                              |                                         |
| 1853559 | TP111 0.10 SOIL | 24/05/21     | PG                   |                              |                                         |
| 1853560 | TP112 0.10 SOIL | 24/05/21     | GJ 250ml x2, GJ 60ml |                              |                                         |
| 1853561 | TP113 0.10 SOIL | 24/05/21     | PG                   |                              |                                         |
| 1853562 | TP114 0.10 SOIL | 24/05/21     | PG                   |                              |                                         |
| 1853563 | TP114 0.60 SOIL | 24/05/21     | PG                   |                              |                                         |
| 1853564 | TP115 0.10 SOIL | 24/05/21     | PG                   |                              |                                         |

Key: P-Plastic G-Bag G-Glass J-Jar

DETS cannot be held responsible for the integrity of samples received whereby the laboratory did not undertake the sampling. In this instance samples received may be deviating. Deviating Sample criteria are based on British and International standards and laboratory trials in conjunction with the UKAS note 'Guidance on Deviating Samples'. All samples received are listed above. However, those samples that have additional comments in relation to hold time, inappropriate containers etc are deviating due to the reasons stated. This means that the analysis is accredited where applicable, but results may be compromised due to sample deviations. If no sampled date (soils) or date+time (waters) has been supplied then samples are deviating. However, if you are able to supply a sampled date (and time for waters) this will prevent samples being reported as deviating where specific hold times are not exceeded and where the container supplied is suitable.

### Soil Analysis Notes

Inorganic soil analysis was carried out on a dried sample, crushed to pass a 425µm sieve, in accordance with BS1377.

Organic soil analysis was carried out on an 'as received' sample. Organics results are corrected for moisture and expressed on a dry weight basis.

The Loss on Drying, used to express organics analysis on an air dried basis, is carried out at a temperature of 28°C +/-2°C.

### Disposal

From the issue date of this test certificate, samples will be held for the following times prior to disposal :-

Soils - 1 month, Liquids - 2 weeks, Asbestos (test portion) - 6 months

## Appendix A - Details of Analysis

| Method    | Parameter                                   | Units    | Limit of Detection | Sample Preparation | Sub-Contracted | UKAS | MCERTS |
|-----------|---------------------------------------------|----------|--------------------|--------------------|----------------|------|--------|
| DETS 2002 | Organic matter                              | %        | 0.1                | Air Dried          | No             | Yes  | Yes    |
| DETS 2003 | Loss on ignition                            | %        | 0.01               | Air Dried          | No             | Yes  | Yes    |
| DETS 2008 | pH                                          | pH Units | 1                  | Air Dried          | No             | Yes  | Yes    |
| DETS 2024 | Sulphide                                    | mg/kg    | 10                 | Air Dried          | No             | Yes  | Yes    |
| DETS 2076 | Sulphate Aqueous Extract as SO <sub>4</sub> | mg/l     | 10                 | Air Dried          | No             | Yes  | Yes    |
| DETS 2084 | Total Carbon                                | %        | 0.5                | Air Dried          | No             | Yes  | Yes    |
| DETS 2084 | Total Organic Carbon                        | %        | 0.5                | Air Dried          | No             | Yes  | Yes    |
| DETS 2119 | Ammoniacal Nitrogen as N                    | mg/kg    | 0.5                | Air Dried          | No             | Yes  | Yes    |
| DETS 2130 | Cyanide free                                | mg/kg    | 0.1                | Air Dried          | No             | Yes  | Yes    |
| DETS 2130 | Cyanide total                               | mg/kg    | 0.1                | Air Dried          | No             | Yes  | Yes    |
| DETS 2130 | Phenol - Monohydric                         | mg/kg    | 0.3                | Air Dried          | No             | Yes  | Yes    |
| DETS 2130 | Thiocyanate                                 | mg/kg    | 0.6                | Air Dried          | No             | Yes  | Yes    |
| DETS 2321 | Total Sulphate as SO <sub>4</sub>           | %        | 0.01               | Air Dried          | No             | Yes  | Yes    |
| DETS 2325 | Mercury                                     | mg/kg    | 0.05               | Air Dried          | No             | Yes  | Yes    |
| DETS 3049 | Sulphur (free)                              | mg/kg    | 0.75               | Air Dried          | No             | Yes  | Yes    |
| DETS 2123 | Boron (water soluble)                       | mg/kg    | 0.2                | Air Dried          | No             | Yes  | Yes    |
| DETS 2301 | Arsenic                                     | mg/kg    | 0.2                | Air Dried          | No             | Yes  | Yes    |
| DETS 2301 | Barium                                      | mg/kg    | 1.5                | Air Dried          | No             | Yes  | Yes    |
| DETS 2301 | Beryllium                                   | mg/kg    | 0.2                | Air Dried          | No             | Yes  | Yes    |
| DETS 2301 | Cadmium Available                           | mg/kg    | 0.1                | Air Dried          | No             | Yes  | Yes    |
| DETS 2301 | Cadmium                                     | mg/kg    | 0.1                | Air Dried          | No             | Yes  | Yes    |
| DETS 2301 | Cobalt                                      | mg/kg    | 0.7                | Air Dried          | No             | Yes  | Yes    |
| DETS 2301 | Chromium                                    | mg/kg    | 0.15               | Air Dried          | No             | Yes  | Yes    |
| DETS 2301 | Copper                                      | mg/kg    | 0.2                | Air Dried          | No             | Yes  | Yes    |
| DETS 2301 | Manganese                                   | mg/kg    | 20                 | Air Dried          | No             | Yes  | Yes    |
| DETS 2301 | Molybdenum                                  | mg/kg    | 0.4                | Air Dried          | No             | Yes  | Yes    |
| DETS 2301 | Nickel                                      | mg/kg    | 1                  | Air Dried          | No             | Yes  | Yes    |
| DETS 2301 | Lead                                        | mg/kg    | 0.3                | Air Dried          | No             | Yes  | Yes    |
| DETS 2301 | Selenium                                    | mg/kg    | 0.5                | Air Dried          | No             | Yes  | Yes    |
| DETS 2301 | Zinc                                        | mg/kg    | 1                  | Air Dried          | No             | Yes  | Yes    |
| DETS 3072 | Alk/Aro C10-C35                             | mg/kg    | 10                 | As Received        | No             | Yes  | Yes    |
| DETS 3072 | Aliphatic C10-C12                           | mg/kg    | 1.5                | As Received        | No             | Yes  | Yes    |
| DETS 3072 | Aliphatic C10-C12                           | mg/kg    | 10                 | As Received        | No             | Yes  | Yes    |
| DETS 3072 | Aliphatic C10-C35                           | mg/kg    | 10                 | As Received        | No             | Yes  | Yes    |
| DETS 3072 | Aliphatic C12-C16                           | mg/kg    | 1.2                | As Received        | No             | Yes  | Yes    |
| DETS 3072 | Aliphatic C12-C16                           | mg/kg    | 10                 | As Received        | No             | Yes  | Yes    |
| DETS 3072 | Aliphatic C16-C21                           | mg/kg    | 1.5                | As Received        | No             | Yes  | Yes    |
| DETS 3072 | Aliphatic C16-C21                           | mg/kg    | 10                 | As Received        | No             | Yes  | Yes    |
| DETS 3072 | Aliphatic C21-C35                           | mg/kg    | 3.4                | As Received        | No             | Yes  | Yes    |
| DETS 3072 | Aliphatic C21-C35                           | mg/kg    | 3.4                | As Received        | No             | Yes  | Yes    |
| DETS 3072 | Aromatic C10-C12                            | mg/kg    | 0.9                | As Received        | No             | Yes  | Yes    |
| DETS 3072 | Aromatic C10-C12                            | mg/kg    | 10                 | As Received        | No             | Yes  | Yes    |
| DETS 3072 | Aromatic C10-C35                            | mg/kg    | 10                 | As Received        | No             | Yes  | Yes    |
| DETS 3072 | Aromatic C12-C16                            | mg/kg    | 0.5                | As Received        | No             | Yes  | Yes    |
| DETS 3072 | Aromatic C12-C16                            | mg/kg    | 10                 | As Received        | No             | Yes  | Yes    |
| DETS 3072 | Aromatic C16-C21                            | mg/kg    | 0.6                | As Received        | No             | Yes  | Yes    |
| DETS 3072 | Aromatic C16-C21                            | mg/kg    | 10                 | As Received        | No             | Yes  | Yes    |
| DETS 3072 | Aromatic C21-C35                            | mg/kg    | 1.4                | As Received        | No             | Yes  | Yes    |
| DETS 3072 | Aromatic C21-C35                            | mg/kg    | 1.4                | As Received        | No             | Yes  | Yes    |
| DETS 062  | Benzene                                     | mg/kg    | 0.01               | As Received        | No             | Yes  | Yes    |
| DETS 062  | Ethylbenzene                                | mg/kg    | 0.01               | As Received        | No             | Yes  | Yes    |
| DETS 062  | Toluene                                     | mg/kg    | 0.01               | As Received        | No             | Yes  | Yes    |
| DETS 062  | Xylene                                      | mg/kg    | 0.01               | As Received        | No             | Yes  | Yes    |
| DETS 062  | m+p Xylene                                  | mg/kg    | 0.01               | As Received        | No             | Yes  | Yes    |
| DETS 062  | o Xylene                                    | mg/kg    | 0.01               | As Received        | No             | Yes  | Yes    |
| DETS 3311 | C10-C24 Diesel Range Organics (DRO)         | mg/kg    | 10                 | As Received        | No             | Yes  | Yes    |
| DETS 3311 | C24-C40 Lube Oil Range Organics (LORO)      | mg/kg    | 10                 | As Received        | No             | Yes  | Yes    |
| DETS 3311 | EPH (C10-C40)                               | mg/kg    | 10                 | As Received        | No             | Yes  | Yes    |

## Appendix A - Details of Analysis

| Method     | Parameter               | Units | Limit of Detection | Sample Preparation | Sub-Contracted | UKAS | MCERTS |
|------------|-------------------------|-------|--------------------|--------------------|----------------|------|--------|
| DETSC 3303 | Acenaphthene            | mg/kg | 0.03               | As Received        | No             | Yes  | Yes    |
| DETSC 3303 | Acenaphthylene          | mg/kg | 0.03               | As Received        | No             | Yes  | Yes    |
| DETSC 3303 | Benzo(a)pyrene          | mg/kg | 0.03               | As Received        | No             | Yes  | Yes    |
| DETSC 3303 | Benzo(a)anthracene      | mg/kg | 0.03               | As Received        | No             | Yes  | Yes    |
| DETSC 3303 | Benzo(b)fluoranthene    | mg/kg | 0.03               | As Received        | No             | Yes  | Yes    |
| DETSC 3303 | Benzo(k)fluoranthene    | mg/kg | 0.03               | As Received        | No             | Yes  | Yes    |
| DETSC 3303 | Benzo(g,h,i)perylene    | mg/kg | 0.03               | As Received        | No             | Yes  | Yes    |
| DETSC 3303 | Dibenzo(a,h)anthracene  | mg/kg | 0.03               | As Received        | No             | Yes  | Yes    |
| DETSC 3303 | Fluoranthene            | mg/kg | 0.03               | As Received        | No             | Yes  | Yes    |
| DETSC 3303 | Indeno(1,2,3-c,d)pyrene | mg/kg | 0.03               | As Received        | No             | Yes  | Yes    |
| DETSC 3303 | Naphthalene             | mg/kg | 0.03               | As Received        | No             | Yes  | Yes    |
| DETSC 3303 | Phenanthrene            | mg/kg | 0.03               | As Received        | No             | Yes  | Yes    |
| DETSC 3303 | Pyrene                  | mg/kg | 0.03               | As Received        | No             | Yes  | Yes    |
| DETSC 3401 | PCB 28 + PCB 31         | mg/kg | 0.01               | As Received        | No             | Yes  | Yes    |
| DETSC 3401 | PCB 52                  | mg/kg | 0.01               | As Received        | No             | Yes  | Yes    |
| DETSC 3401 | PCB 101                 | mg/kg | 0.01               | As Received        | No             | Yes  | Yes    |
| DETSC 3401 | PCB 118                 | mg/kg | 0.01               | As Received        | No             | Yes  | Yes    |
| DETSC 3401 | PCB 153                 | mg/kg | 0.01               | As Received        | No             | Yes  | Yes    |
| DETSC 3401 | PCB 138                 | mg/kg | 0.01               | As Received        | No             | Yes  | Yes    |
| DETSC 3401 | PCB 180                 | mg/kg | 0.01               | As Received        | No             | Yes  | Yes    |
| DETSC 3401 | PCB Total               | mg/kg | 0.01               | As Received        | No             | Yes  | Yes    |

Method details are shown only for those determinands listed in Annex A of the MCERTS standard. Anything not included on this list falls outside the scope of MCERTS. No Recovery Factors are used in the determination of results. Results reported assume 100% recovery. Full method statements are available on request.

End of Report



## Certificate of Analysis

**Certificate Number** 21-11610

**Issued:** 11-Jun-21

**Client** Coopers (Chester) Ltd  
Park House  
Sandpiper Court  
Chester Business Park  
Chester  
CH4 9QU

**Our Reference** 21-11610

**Client Reference** 7791

**Order No** 9069-ST

**Contract Title** (7791) Gatewen Road, Wrexham

**Description** 10 Soil samples.

**Date Received** 02-Jun-21

**Date Started** 02-Jun-21

**Date Completed** 11-Jun-21

**Test Procedures** Identified by prefix DETSn (details on request).

**Notes** Opinions and interpretations are outside the laboratory's scope of ISO 17025 accreditation. This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This certificate shall not be reproduced except in full, without the prior written approval of the laboratory.

**Approved By**

Adam Fenwick  
Contracts Manager



## Summary of Chemical Analysis

### Matrix Descriptions

*Our Ref* 21-11610

*Client Ref* 7791

*Contract Title* (7791) Gatewen Road, Wrexham

| Sample ID | Depth     | Lab No  | Completed  | Matrix Description                                     |
|-----------|-----------|---------|------------|--------------------------------------------------------|
| HDP1      | 0.1       | 1856110 | 11/06/2021 | Dark brown gravelly, sandy CLAY including odd rootlets |
| HDP2      | 0.1       | 1856111 | 11/06/2021 | Dark brown gravelly, sandy CLAY including odd rootlets |
| S1        | 0.1       | 1856113 | 11/06/2021 | Dark brown gravelly, sandy CLAY including odd rootlets |
| S2        | 0.1       | 1856114 | 11/06/2021 | Dark brown gravelly, sandy CLAY including odd rootlets |
| S3        | 0.1       | 1856115 | 11/06/2021 | Dark brown gravelly, sandy CLAY including odd rootlets |
| WS4       | 0.00-0.30 | 1856117 | 11/06/2021 | Dark brown gravelly, sandy CLAY including odd rootlets |
| WS1       | 0.00-0.20 | 1856118 | 11/06/2021 | Dark brown gravelly, sandy CLAY including odd rootlets |
| WS2       | 0.00-0.30 | 1856119 | 11/06/2021 | Dark brown gravelly, sandy CLAY including odd rootlets |

# Summary of Chemical Analysis

## Soil Samples

Our Ref 21-11610

Client Ref 7791

Contract Title (7791) Gatewen Road, Wrexham

| Lab No        | 1856110    | 1856111    | 1856113    | 1856114    | 1856115    | 1856116    | 1856117    |
|---------------|------------|------------|------------|------------|------------|------------|------------|
| Sample ID     | HDP1       | HDP2       | S1         | S2         | S3         | WS5        | WS4        |
| Depth         | 0.10       | 0.10       | 0.10       | 0.10       | 0.10       | 0.00-0.30  | 0.00-0.30  |
| Other ID      |            |            |            |            |            |            |            |
| Sample Type   | SOIL       | SOIL       | SOIL       | SOIL       | SOIL       | SOIL       | SOIL       |
| Sampling Date | 27/05/2021 | 27/05/2021 | 27/05/2021 | 27/05/2021 | 27/05/2021 | 27/05/2021 | 27/05/2021 |
| Sampling Time | n/s        | n/s        | n/s        | n/s        | n/s        | n/s        | n/s        |

| Test                            | Method      | LOD   | Units |        |        |        |        |        |        |        |
|---------------------------------|-------------|-------|-------|--------|--------|--------|--------|--------|--------|--------|
| <b>Metals</b>                   |             |       |       |        |        |        |        |        |        |        |
| Arsenic                         | DETSC 2301# | 0.2   | mg/kg | 9.2    | 27     | 10     | 21     | 11     |        | 11     |
| Beryllium                       | DETSC 2301# | 0.2   | mg/kg | 0.5    | 2.1    | 0.4    | 1.3    | 0.4    |        | 0.8    |
| Boron, Water Soluble            | DETSC 2311# | 0.2   | mg/kg | 1.2    | 1.0    | 0.9    | 1.5    | 1.1    |        | 0.4    |
| Cadmium                         | DETSC 2301# | 0.1   | mg/kg | 0.3    | 0.6    | 0.3    | 0.7    | 0.3    |        | 0.5    |
| Chromium                        | DETSC 2301# | 0.15  | mg/kg | 13     | 16     | 16     | 15     | 15     |        | 20     |
| Chromium, Hexavalent            | DETSC 2204* | 1     | mg/kg | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  |        | < 1.0  |
| Copper                          | DETSC 2301# | 0.2   | mg/kg | 22     | 89     | 21     | 84     | 24     |        | 27     |
| Lead                            | DETSC 2301# | 0.3   | mg/kg | 70     | 83     | 80     | 150    | 100    |        | 82     |
| Mercury                         | DETSC 2325# | 0.05  | mg/kg | 0.12   | 0.06   | 0.19   | 0.15   | 0.12   |        | 0.10   |
| Nickel                          | DETSC 2301# | 1     | mg/kg | 14     | 34     | 15     | 27     | 15     |        | 20     |
| Selenium                        | DETSC 2301# | 0.5   | mg/kg | < 0.5  | 1.3    | 0.5    | 0.8    | < 0.5  |        | 0.8    |
| Vanadium                        | DETSC 2301# | 0.8   | mg/kg | 19     | 35     | 21     | 27     | 26     |        | 27     |
| Zinc                            | DETSC 2301# | 1     | mg/kg | 84     | 160    | 73     | 270    | 87     |        | 100    |
| <b>Inorganics</b>               |             |       |       |        |        |        |        |        |        |        |
| pH                              | DETSC 2008# |       | pH    | 7.0    | 7.0    | 6.2    | 7.0    | 6.5    |        | 6.0    |
| Cyanide, Total                  | DETSC 2130# | 0.1   | mg/kg | 0.6    | 1.0    | 0.5    | 0.8    | 0.6    |        | 0.4    |
| FOC                             | DETSC 2084# | 0.001 |       | 0.075  | 0.41   | 0.036  | 0.21   | 0.070  |        | 0.050  |
| Total Organic Carbon            | DETSC 2084# | 0.5   | %     | 7.5    | 41     | 3.6    | 21     | 7.0    |        | 5.0    |
| Sulphate Aqueous Extract as SO4 | DETSC 2076# | 10    | mg/l  | 37     | 67     | 25     | 51     | 20     |        | < 10   |
| Sulphate as SO4, Total          | DETSC 2321# | 0.01  | %     | 0.08   | 0.18   | 0.07   | 0.21   | 0.14   |        | 0.06   |
| <b>Petroleum Hydrocarbons</b>   |             |       |       |        |        |        |        |        |        |        |
| Aliphatic C5-C6                 | DETSC 3321* | 0.01  | mg/kg |        |        |        |        |        | < 0.01 |        |
| Aliphatic C6-C8                 | DETSC 3321* | 0.01  | mg/kg |        |        |        |        |        | < 0.01 |        |
| Aliphatic C8-C10                | DETSC 3321* | 0.01  | mg/kg |        |        |        |        |        | < 0.01 |        |
| Aliphatic C10-C12               | DETSC 3072# | 1.5   | mg/kg |        |        |        |        |        | < 1.5  |        |
| Aliphatic C12-C16               | DETSC 3072# | 1.2   | mg/kg |        |        |        |        |        | < 1.2  |        |
| Aliphatic C16-C21               | DETSC 3072# | 1.5   | mg/kg |        |        |        |        |        | < 1.5  |        |
| Aliphatic C21-C35               | DETSC 3072# | 3.4   | mg/kg |        |        |        |        |        | < 3.4  |        |
| Aliphatic C5-C35                | DETSC 3072* | 10    | mg/kg |        |        |        |        |        | < 10   |        |
| Aromatic C5-C7                  | DETSC 3321* | 0.01  | mg/kg |        |        |        |        |        | < 0.01 |        |
| Aromatic C7-C8                  | DETSC 3321* | 0.01  | mg/kg |        |        |        |        |        | < 0.01 |        |
| Aromatic C8-C10                 | DETSC 3321* | 0.01  | mg/kg |        |        |        |        |        | < 0.01 |        |
| Aromatic C10-C12                | DETSC 3072# | 0.9   | mg/kg |        |        |        |        |        | < 0.9  |        |
| Aromatic C12-C16                | DETSC 3072# | 0.5   | mg/kg |        |        |        |        |        | < 0.5  |        |
| Aromatic C16-C21                | DETSC 3072# | 0.6   | mg/kg |        |        |        |        |        | < 0.6  |        |
| Aromatic C21-C35                | DETSC 3072# | 1.4   | mg/kg |        |        |        |        |        | < 1.4  |        |
| Aromatic C5-C35                 | DETSC 3072* | 10    | mg/kg |        |        |        |        |        | < 10   |        |
| TPH Ali/Aro Total C5-C35        | DETSC 3072* | 10    | mg/kg |        |        |        |        |        | < 10   |        |
| <b>PAHs</b>                     |             |       |       |        |        |        |        |        |        |        |
| Naphthalene                     | DETSC 3303# | 0.03  | mg/kg | < 0.03 | < 0.03 | < 0.03 | < 0.03 | < 0.03 |        | < 0.03 |
| Acenaphthylene                  | DETSC 3303# | 0.03  | mg/kg | 0.05   | < 0.03 | < 0.03 | < 0.03 | < 0.03 |        | < 0.03 |

## Summary of Chemical Analysis

### Soil Samples

Our Ref 21-11610

Client Ref 7791

Contract Title (7791) Gatewen Road, Wrexham

| Lab No        | 1856110    | 1856111    | 1856113    | 1856114    | 1856115    | 1856116    | 1856117    |
|---------------|------------|------------|------------|------------|------------|------------|------------|
| Sample ID     | HDP1       | HDP2       | S1         | S2         | S3         | WS5        | WS4        |
| Depth         | 0.10       | 0.10       | 0.10       | 0.10       | 0.10       | 0.00-0.30  | 0.00-0.30  |
| Other ID      |            |            |            |            |            |            |            |
| Sample Type   | SOIL       | SOIL       | SOIL       | SOIL       | SOIL       | SOIL       | SOIL       |
| Sampling Date | 27/05/2021 | 27/05/2021 | 27/05/2021 | 27/05/2021 | 27/05/2021 | 27/05/2021 | 27/05/2021 |
| Sampling Time | n/s        | n/s        | n/s        | n/s        | n/s        | n/s        | n/s        |

| Test                             | Method      | LOD  | Units |        |        |        |        |        |  |        |
|----------------------------------|-------------|------|-------|--------|--------|--------|--------|--------|--|--------|
| Acenaphthene                     | DETSC 3303# | 0.03 | mg/kg | < 0.03 | < 0.03 | < 0.03 | < 0.03 | < 0.03 |  | < 0.03 |
| Fluorene                         | DETSC 3303  | 0.03 | mg/kg | 0.07   | < 0.03 | < 0.03 | < 0.03 | < 0.03 |  | < 0.03 |
| Phenanthrene                     | DETSC 3303# | 0.03 | mg/kg | 0.42   | 0.12   | 0.24   | < 0.03 | 0.08   |  | 0.05   |
| Anthracene                       | DETSC 3303  | 0.03 | mg/kg | 0.04   | < 0.03 | < 0.03 | < 0.03 | < 0.03 |  | < 0.03 |
| Fluoranthene                     | DETSC 3303# | 0.03 | mg/kg | 0.29   | 0.22   | 0.29   | 0.06   | 0.11   |  | 0.15   |
| Pyrene                           | DETSC 3303# | 0.03 | mg/kg | 0.23   | 0.20   | 0.29   | 0.07   | 0.10   |  | 0.14   |
| Benzo(a)anthracene               | DETSC 3303# | 0.03 | mg/kg | 0.07   | 0.08   | 0.09   | < 0.03 | 0.04   |  | 0.06   |
| Chrysene                         | DETSC 3303  | 0.03 | mg/kg | 0.10   | 0.12   | 0.15   | 0.03   | 0.06   |  | 0.09   |
| Benzo(b)fluoranthene             | DETSC 3303# | 0.03 | mg/kg | 0.08   | 0.16   | 0.16   | 0.09   | 0.06   |  | 0.10   |
| Benzo(k)fluoranthene             | DETSC 3303# | 0.03 | mg/kg | < 0.03 | 0.05   | 0.05   | < 0.03 | < 0.03 |  | 0.03   |
| Benzo(a)pyrene                   | DETSC 3303# | 0.03 | mg/kg | 0.03   | 0.08   | 0.08   | 0.05   | < 0.03 |  | 0.05   |
| Indeno(1,2,3-c,d)pyrene          | DETSC 3303# | 0.03 | mg/kg | < 0.03 | 0.06   | 0.05   | 0.04   | < 0.03 |  | 0.04   |
| Dibenzo(a,h)anthracene           | DETSC 3303# | 0.03 | mg/kg | < 0.03 | < 0.03 | < 0.03 | < 0.03 | < 0.03 |  | < 0.03 |
| Benzo(g,h,i)perylene             | DETSC 3303# | 0.03 | mg/kg | < 0.03 | 0.06   | 0.05   | 0.04   | < 0.03 |  | 0.03   |
| PAH - USEPA 16, Total            | DETSC 3303  | 0.1  | mg/kg | 1.3    | 1.2    | 1.5    | 0.35   | 0.45   |  | 0.68   |
| <b>Phenols</b>                   |             |      |       |        |        |        |        |        |  |        |
| Phenol - Monohydric              | DETSC 2130# | 0.3  | mg/kg | 1.1    | 0.9    | 0.5    | 1.6    | 1.6    |  | < 0.3  |
| <b>OCPs</b>                      |             |      |       |        |        |        |        |        |  |        |
| alpha-BHC                        | DETSC 3441* | 0.1  | mg/kg | < 0.1  | < 0.1  |        |        |        |  |        |
| gamma-BHC (Lindane)              | DETSC 3441* | 0.1  | mg/kg | < 0.1  | < 0.1  |        |        |        |  |        |
| beta-BHC                         | DETSC 3441* | 0.1  | mg/kg | < 0.1  | < 0.1  |        |        |        |  |        |
| delta-BHC                        | DETSC 3441* | 0.1  | mg/kg | < 0.1  | < 0.1  |        |        |        |  |        |
| Heptachlor                       | DETSC 3441* | 0.1  | mg/kg | < 0.1  | < 0.1  |        |        |        |  |        |
| Aldrin                           | DETSC 3441* | 0.1  | mg/kg | < 0.1  | < 0.1  |        |        |        |  |        |
| Heptachlor epoxide               | DETSC 3441* | 0.1  | mg/kg | < 0.1  | < 0.1  |        |        |        |  |        |
| gamma-Chlordane                  | DETSC 3441* | 0.1  | mg/kg | < 0.1  | < 0.1  |        |        |        |  |        |
| Endosulphan I & Alpha-chlorodane | DETSC 3441* | 0.1  | mg/kg | < 0.1  | < 0.1  |        |        |        |  |        |
| 4,4-DDE                          | DETSC 3441* | 0.1  | mg/kg | < 0.1  | < 0.1  |        |        |        |  |        |
| Dieldrin                         | DETSC 3441* | 0.1  | mg/kg | < 0.1  | < 0.1  |        |        |        |  |        |
| Endrin                           | DETSC 3441* | 0.1  | mg/kg | < 0.1  | < 0.1  |        |        |        |  |        |
| Endosulphan II & 4,4-DDD         | DETSC 3441* | 0.1  | mg/kg | < 0.1  | < 0.1  |        |        |        |  |        |
| Endrin aldehyde                  | DETSC 3441* | 0.1  | mg/kg | < 0.1  | < 0.1  |        |        |        |  |        |
| 4,4-DDT                          | DETSC 3441* | 0.1  | mg/kg | < 0.1  | < 0.1  |        |        |        |  |        |
| Endosulphan sulphate             | DETSC 3441* | 0.1  | mg/kg | < 0.1  | < 0.1  |        |        |        |  |        |
| Methoxychlor                     | DETSC 3441* | 0.1  | mg/kg | < 0.1  | < 0.1  |        |        |        |  |        |
| Endrin ketone                    | DETSC 3441* | 0.1  | mg/kg | < 0.1  | < 0.1  |        |        |        |  |        |
| <b>OPPs</b>                      |             |      |       |        |        |        |        |        |  |        |
| Dichlorvos                       | DETSC 3443* | 0.1  | mg/kg | 0.2    | < 0.1  |        |        |        |  |        |
| Mevinphos                        | DETSC 3443* | 0.1  | mg/kg | < 0.1  | < 0.1  |        |        |        |  |        |
| Demeton-O                        | DETSC 3443* | 0.1  | mg/kg | < 0.1  | < 0.1  |        |        |        |  |        |
| Ethoprop                         | DETSC 3443* | 0.1  | mg/kg | < 0.1  | < 0.1  |        |        |        |  |        |
| Naled                            | DETSC 3443* | 0.1  | mg/kg | < 0.1  | < 0.1  |        |        |        |  |        |

## Summary of Chemical Analysis

### Soil Samples

Our Ref 21-11610

Client Ref 7791

Contract Title (7791) Gatewen Road, Wrexham

| Lab No        | 1856110    | 1856111    | 1856113    | 1856114    | 1856115    | 1856116    | 1856117    |
|---------------|------------|------------|------------|------------|------------|------------|------------|
| Sample ID     | HDP1       | HDP2       | S1         | S2         | S3         | WS5        | WS4        |
| Depth         | 0.10       | 0.10       | 0.10       | 0.10       | 0.10       | 0.00-0.30  | 0.00-0.30  |
| Other ID      |            |            |            |            |            |            |            |
| Sample Type   | SOIL       | SOIL       | SOIL       | SOIL       | SOIL       | SOIL       | SOIL       |
| Sampling Date | 27/05/2021 | 27/05/2021 | 27/05/2021 | 27/05/2021 | 27/05/2021 | 27/05/2021 | 27/05/2021 |
| Sampling Time | n/s        | n/s        | n/s        | n/s        | n/s        | n/s        | n/s        |

| Test             | Method     | LOD | Units |       |       |  |  |  |  |
|------------------|------------|-----|-------|-------|-------|--|--|--|--|
| Phorate          | DETS 3443* | 0.1 | mg/kg | < 0.1 | < 0.1 |  |  |  |  |
| Demeton-S        | DETS 3443* | 0.1 | mg/kg | < 0.1 | < 0.1 |  |  |  |  |
| Diazinon         | DETS 3443* | 0.1 | mg/kg | < 0.1 | < 0.1 |  |  |  |  |
| Disulfoton       | DETS 3443* | 0.1 | mg/kg | < 0.1 | < 0.1 |  |  |  |  |
| Methylparathion  | DETS 3443* | 0.1 | mg/kg | < 0.1 | < 0.1 |  |  |  |  |
| Ronnel           | DETS 3443* | 0.1 | mg/kg | < 0.1 | < 0.1 |  |  |  |  |
| Fenthion         | DETS 3443* | 0.1 | mg/kg | < 0.1 | < 0.1 |  |  |  |  |
| Chlopyrifos      | DETS 3443* | 0.1 | mg/kg | < 0.1 | < 0.1 |  |  |  |  |
| Trichlorinate    | DETS 3443* | 0.1 | mg/kg | < 0.1 | < 0.1 |  |  |  |  |
| Merphos          | DETS 3443* | 0.1 | mg/kg | < 0.1 | < 0.1 |  |  |  |  |
| Stirofos         | DETS 3443* | 0.1 | mg/kg | < 0.1 | < 0.1 |  |  |  |  |
| Tokuthion        | DETS 3443* | 0.1 | mg/kg | < 0.1 | < 0.1 |  |  |  |  |
| Fensulfothion    | DETS 3443* | 0.1 | mg/kg | < 0.1 | < 0.1 |  |  |  |  |
| Bolstar          | DETS 3443* | 0.1 | mg/kg | < 0.1 | < 0.1 |  |  |  |  |
| Azinphos methyl  | DETS 3443* | 0.1 | mg/kg | < 0.1 | < 0.1 |  |  |  |  |
| Coumaphos        | DETS 3443* | 0.1 | mg/kg | < 0.1 | < 0.1 |  |  |  |  |
| <b>Triazines</b> |            |     |       |       |       |  |  |  |  |
| Atraton          | DETS 3445* | 0.1 | mg/kg | < 0.1 | < 0.1 |  |  |  |  |
| Prometon         | DETS 3445* | 0.1 | mg/kg | < 0.1 | < 0.1 |  |  |  |  |
| Simazine         | DETS 3445* | 0.1 | mg/kg | < 0.1 | < 0.1 |  |  |  |  |
| Atrazine         | DETS 3445* | 0.1 | mg/kg | < 0.1 | < 0.1 |  |  |  |  |
| Propazine        | DETS 3445* | 0.1 | mg/kg | < 0.1 | < 0.1 |  |  |  |  |
| Terbutylazine    | DETS 3445* | 0.1 | mg/kg | < 0.1 | < 0.1 |  |  |  |  |
| Secbumeton       | DETS 3445* | 0.1 | mg/kg | < 0.1 | < 0.1 |  |  |  |  |
| Symetryn         | DETS 3445* | 0.1 | mg/kg | < 0.1 | < 0.1 |  |  |  |  |
| Ametryn          | DETS 3445* | 0.1 | mg/kg | < 0.1 | < 0.1 |  |  |  |  |
| Prometryne       | DETS 3445* | 0.1 | mg/kg | < 0.1 | < 0.1 |  |  |  |  |
| Terbutryn        | DETS 3445* | 0.1 | mg/kg | < 0.1 | < 0.1 |  |  |  |  |

## Summary of Chemical Analysis

### Soil Samples

Our Ref 21-11610

Client Ref 7791

Contract Title (7791) Gatewen Road, Wrexham

|               |            |            |
|---------------|------------|------------|
| Lab No        | 1856118    | 1856119    |
| Sample ID     | WS1        | WS2        |
| Depth         | 0.00-0.20  | 0.00-0.30  |
| Other ID      |            |            |
| Sample Type   | SOIL       | SOIL       |
| Sampling Date | 27/05/2021 | 27/05/2021 |
| Sampling Time | n/s        | n/s        |

| Test                                        | Method      | LOD   | Units |        |        |
|---------------------------------------------|-------------|-------|-------|--------|--------|
| <b>Metals</b>                               |             |       |       |        |        |
| Arsenic                                     | DETSC 2301# | 0.2   | mg/kg | 11     | 10     |
| Beryllium                                   | DETSC 2301# | 0.2   | mg/kg | 0.6    | 0.6    |
| Boron, Water Soluble                        | DETSC 2311# | 0.2   | mg/kg | 0.5    | 0.4    |
| Cadmium                                     | DETSC 2301# | 0.1   | mg/kg | 0.4    | 0.5    |
| Chromium                                    | DETSC 2301# | 0.15  | mg/kg | 16     | 18     |
| Chromium, Hexavalent                        | DETSC 2204* | 1     | mg/kg | < 1.0  | < 1.0  |
| Copper                                      | DETSC 2301# | 0.2   | mg/kg | 24     | 22     |
| Lead                                        | DETSC 2301# | 0.3   | mg/kg | 78     | 69     |
| Mercury                                     | DETSC 2325# | 0.05  | mg/kg | 0.10   | 0.08   |
| Nickel                                      | DETSC 2301# | 1     | mg/kg | 16     | 16     |
| Selenium                                    | DETSC 2301# | 0.5   | mg/kg | < 0.5  | < 0.5  |
| Vanadium                                    | DETSC 2301# | 0.8   | mg/kg | 24     | 25     |
| Zinc                                        | DETSC 2301# | 1     | mg/kg | 94     | 100    |
| <b>Inorganics</b>                           |             |       |       |        |        |
| pH                                          | DETSC 2008# |       | pH    | 6.0    | 6.6    |
| Cyanide, Total                              | DETSC 2130# | 0.1   | mg/kg | 0.5    | 0.4    |
| FOC                                         | DETSC 2084# | 0.001 |       | 0.056  | 0.040  |
| Total Organic Carbon                        | DETSC 2084# | 0.5   | %     | 5.6    | 4.0    |
| Sulphate Aqueous Extract as SO <sub>4</sub> | DETSC 2076# | 10    | mg/l  | < 10   | 21     |
| Sulphate as SO <sub>4</sub> , Total         | DETSC 2321# | 0.01  | %     | 0.07   | 0.07   |
| <b>Petroleum Hydrocarbons</b>               |             |       |       |        |        |
| Aliphatic C5-C6                             | DETSC 3321* | 0.01  | mg/kg |        |        |
| Aliphatic C6-C8                             | DETSC 3321* | 0.01  | mg/kg |        |        |
| Aliphatic C8-C10                            | DETSC 3321* | 0.01  | mg/kg |        |        |
| Aliphatic C10-C12                           | DETSC 3072# | 1.5   | mg/kg |        |        |
| Aliphatic C12-C16                           | DETSC 3072# | 1.2   | mg/kg |        |        |
| Aliphatic C16-C21                           | DETSC 3072# | 1.5   | mg/kg |        |        |
| Aliphatic C21-C35                           | DETSC 3072# | 3.4   | mg/kg |        |        |
| Aliphatic C5-C35                            | DETSC 3072* | 10    | mg/kg |        |        |
| Aromatic C5-C7                              | DETSC 3321* | 0.01  | mg/kg |        |        |
| Aromatic C7-C8                              | DETSC 3321* | 0.01  | mg/kg |        |        |
| Aromatic C8-C10                             | DETSC 3321* | 0.01  | mg/kg |        |        |
| Aromatic C10-C12                            | DETSC 3072# | 0.9   | mg/kg |        |        |
| Aromatic C12-C16                            | DETSC 3072# | 0.5   | mg/kg |        |        |
| Aromatic C16-C21                            | DETSC 3072# | 0.6   | mg/kg |        |        |
| Aromatic C21-C35                            | DETSC 3072# | 1.4   | mg/kg |        |        |
| Aromatic C5-C35                             | DETSC 3072* | 10    | mg/kg |        |        |
| TPH Ali/Aro Total C5-C35                    | DETSC 3072* | 10    | mg/kg |        |        |
| <b>PAHs</b>                                 |             |       |       |        |        |
| Naphthalene                                 | DETSC 3303# | 0.03  | mg/kg | < 0.03 | < 0.03 |
| Acenaphthylene                              | DETSC 3303# | 0.03  | mg/kg | < 0.03 | < 0.03 |

# Summary of Chemical Analysis

## Soil Samples

Our Ref 21-11610

Client Ref 7791

Contract Title (7791) Gatewen Road, Wrexham

|               |            |            |
|---------------|------------|------------|
| Lab No        | 1856118    | 1856119    |
| Sample ID     | WS1        | WS2        |
| Depth         | 0.00-0.20  | 0.00-0.30  |
| Other ID      |            |            |
| Sample Type   | SOIL       | SOIL       |
| Sampling Date | 27/05/2021 | 27/05/2021 |
| Sampling Time | n/s        | n/s        |

| Test                             | Method      | LOD  | Units |        |        |
|----------------------------------|-------------|------|-------|--------|--------|
| Acenaphthene                     | DETSC 3303# | 0.03 | mg/kg | < 0.03 | < 0.03 |
| Fluorene                         | DETSC 3303  | 0.03 | mg/kg | < 0.03 | < 0.03 |
| Phenanthrene                     | DETSC 3303# | 0.03 | mg/kg | 0.09   | < 0.03 |
| Anthracene                       | DETSC 3303  | 0.03 | mg/kg | < 0.03 | < 0.03 |
| Fluoranthene                     | DETSC 3303# | 0.03 | mg/kg | 0.18   | < 0.03 |
| Pyrene                           | DETSC 3303# | 0.03 | mg/kg | 0.15   | < 0.03 |
| Benzo(a)anthracene               | DETSC 3303# | 0.03 | mg/kg | 0.06   | < 0.03 |
| Chrysene                         | DETSC 3303  | 0.03 | mg/kg | 0.11   | < 0.03 |
| Benzo(b)fluoranthene             | DETSC 3303# | 0.03 | mg/kg | 0.08   | < 0.03 |
| Benzo(k)fluoranthene             | DETSC 3303# | 0.03 | mg/kg | 0.04   | < 0.03 |
| Benzo(a)pyrene                   | DETSC 3303# | 0.03 | mg/kg | 0.05   | < 0.03 |
| Indeno(1,2,3-c,d)pyrene          | DETSC 3303# | 0.03 | mg/kg | 0.04   | < 0.03 |
| Dibenzo(a,h)anthracene           | DETSC 3303# | 0.03 | mg/kg | < 0.03 | < 0.03 |
| Benzo(g,h,i)perylene             | DETSC 3303# | 0.03 | mg/kg | 0.04   | < 0.03 |
| PAH - USEPA 16, Total            | DETSC 3303  | 0.1  | mg/kg | 0.83   | < 0.10 |
| <b>Phenols</b>                   |             |      |       |        |        |
| Phenol - Monohydric              | DETSC 2130# | 0.3  | mg/kg | < 0.3  | < 0.3  |
| <b>OCPs</b>                      |             |      |       |        |        |
| alpha-BHC                        | DETSC 3441* | 0.1  | mg/kg |        |        |
| gamma-BHC (Lindane)              | DETSC 3441* | 0.1  | mg/kg |        |        |
| beta-BHC                         | DETSC 3441* | 0.1  | mg/kg |        |        |
| delta-BHC                        | DETSC 3441* | 0.1  | mg/kg |        |        |
| Heptachlor                       | DETSC 3441* | 0.1  | mg/kg |        |        |
| Aldrin                           | DETSC 3441* | 0.1  | mg/kg |        |        |
| Heptachlor epoxide               | DETSC 3441* | 0.1  | mg/kg |        |        |
| gamma-Chlordane                  | DETSC 3441* | 0.1  | mg/kg |        |        |
| Endosulphan I & Alpha-chlorodane | DETSC 3441* | 0.1  | mg/kg |        |        |
| 4,4-DDE                          | DETSC 3441* | 0.1  | mg/kg |        |        |
| Dieldrin                         | DETSC 3441* | 0.1  | mg/kg |        |        |
| Endrin                           | DETSC 3441* | 0.1  | mg/kg |        |        |
| Endosulphan II & 4,4-DDD         | DETSC 3441* | 0.1  | mg/kg |        |        |
| Endrin aldehyde                  | DETSC 3441* | 0.1  | mg/kg |        |        |
| 4,4-DDT                          | DETSC 3441* | 0.1  | mg/kg |        |        |
| Endosulphan sulphate             | DETSC 3441* | 0.1  | mg/kg |        |        |
| Methoxychlor                     | DETSC 3441* | 0.1  | mg/kg |        |        |
| Endrin ketone                    | DETSC 3441* | 0.1  | mg/kg |        |        |
| <b>OPPs</b>                      |             |      |       |        |        |
| Dichlorvos                       | DETSC 3443* | 0.1  | mg/kg |        |        |
| Mevinphos                        | DETSC 3443* | 0.1  | mg/kg |        |        |
| Demeton-O                        | DETSC 3443* | 0.1  | mg/kg |        |        |
| Ethoprop                         | DETSC 3443* | 0.1  | mg/kg |        |        |
| Naled                            | DETSC 3443* | 0.1  | mg/kg |        |        |

## Summary of Chemical Analysis

### Soil Samples

Our Ref 21-11610

Client Ref 7791

Contract Title (7791) Gatewen Road, Wrexham

|               |            |            |
|---------------|------------|------------|
| Lab No        | 1856118    | 1856119    |
| Sample ID     | WS1        | WS2        |
| Depth         | 0.00-0.20  | 0.00-0.30  |
| Other ID      |            |            |
| Sample Type   | SOIL       | SOIL       |
| Sampling Date | 27/05/2021 | 27/05/2021 |
| Sampling Time | n/s        | n/s        |

| Test             | Method      | LOD | Units |  |  |
|------------------|-------------|-----|-------|--|--|
| Phorate          | DETSC 3443* | 0.1 | mg/kg |  |  |
| Demeton-S        | DETSC 3443* | 0.1 | mg/kg |  |  |
| Diazinon         | DETSC 3443* | 0.1 | mg/kg |  |  |
| Disulfoton       | DETSC 3443* | 0.1 | mg/kg |  |  |
| Methylparathion  | DETSC 3443* | 0.1 | mg/kg |  |  |
| Ronnel           | DETSC 3443* | 0.1 | mg/kg |  |  |
| Fenthion         | DETSC 3443* | 0.1 | mg/kg |  |  |
| Chlopyrifos      | DETSC 3443* | 0.1 | mg/kg |  |  |
| Trichlorinate    | DETSC 3443* | 0.1 | mg/kg |  |  |
| Merphos          | DETSC 3443* | 0.1 | mg/kg |  |  |
| Stirofos         | DETSC 3443* | 0.1 | mg/kg |  |  |
| Tokuthion        | DETSC 3443* | 0.1 | mg/kg |  |  |
| Fensulfothion    | DETSC 3443* | 0.1 | mg/kg |  |  |
| Bolstar          | DETSC 3443* | 0.1 | mg/kg |  |  |
| Azinphos methyl  | DETSC 3443* | 0.1 | mg/kg |  |  |
| Coumaphos        | DETSC 3443* | 0.1 | mg/kg |  |  |
| <b>Triazines</b> |             |     |       |  |  |
| Atraton          | DETSC 3445* | 0.1 | mg/kg |  |  |
| Prometon         | DETSC 3445* | 0.1 | mg/kg |  |  |
| Simazine         | DETSC 3445* | 0.1 | mg/kg |  |  |
| Atrazine         | DETSC 3445* | 0.1 | mg/kg |  |  |
| Propazine        | DETSC 3445* | 0.1 | mg/kg |  |  |
| Terbutylazine    | DETSC 3445* | 0.1 | mg/kg |  |  |
| Secbumeton       | DETSC 3445* | 0.1 | mg/kg |  |  |
| Symetryn         | DETSC 3445* | 0.1 | mg/kg |  |  |
| Ametryn          | DETSC 3445* | 0.1 | mg/kg |  |  |
| Prometryne       | DETSC 3445* | 0.1 | mg/kg |  |  |
| Terbutryn        | DETSC 3445* | 0.1 | mg/kg |  |  |

## Summary of Asbestos Analysis Soil Samples

*Our Ref* 21-11610

*Client Ref* 7791

*Contract Title* (7791) Gatewen Road, Wrexham

| Lab No  | Sample ID     | Material Type | Result | Comment* | Analyst     |
|---------|---------------|---------------|--------|----------|-------------|
| 1856110 | HDP1 0.10     | SOIL          | NAD    | none     | Emma Stacey |
| 1856112 | HDP2 0.45     | SOIL          | NAD    | none     | Emma Stacey |
| 1856113 | S1 0.10       | SOIL          | NAD    | none     | Emma Stacey |
| 1856114 | S2 0.10       | SOIL          | NAD    | none     | Emma Stacey |
| 1856115 | S3 0.10       | SOIL          | NAD    | none     | Emma Stacey |
| 1856118 | WS1 0.00-0.20 | SOIL          | NAD    | none     | Emma Stacey |
| 1856119 | WS2 0.00-0.30 | SOIL          | NAD    | none     | Emma Stacey |

Crocidolite = Blue Asbestos, Amosite = Brown Asbestos, Chrysotile = White Asbestos. Anthophyllite, Actinolite and Tremolite are other forms of Asbestos. Samples are analysed by DETSC 1101 using polarised light microscopy in accordance with HSG248 and documented in-house methods. NAD = No Asbestos Detected. Where a sample is NAD, the result is based on analysis of at least 2 sub-samples and should be taken to mean 'no asbestos detected in sample'. Key: \* - not included in laboratory scope of accreditation.

## Information in Support of the Analytical Results

Our Ref 21-11610  
 Client Ref 7791  
 Contract (7791) Gatewen Road, Wrexham

### Containers Received & Deviating Samples

| Lab No  | Sample ID          | Date Sampled | Containers Received  | Holding time exceeded for tests | Inappropriate container for tests |
|---------|--------------------|--------------|----------------------|---------------------------------|-----------------------------------|
| 1856110 | HDP1 0.10 SOIL     | 27/05/21     | GJ 250ml x2, GJ 60ml |                                 |                                   |
| 1856111 | HDP2 0.10 SOIL     | 27/05/21     | GJ 250ml x2, GJ 60ml |                                 |                                   |
| 1856112 | HDP2 0.45 SOIL     | 27/05/21     | PG                   |                                 |                                   |
| 1856113 | S1 0.10 SOIL       | 27/05/21     | PG                   |                                 |                                   |
| 1856114 | S2 0.10 SOIL       | 27/05/21     | PG                   |                                 |                                   |
| 1856115 | S3 0.10 SOIL       | 27/05/21     | PG                   |                                 |                                   |
| 1856116 | WS5 0.00-0.30 SOIL | 27/05/21     | PG                   |                                 | Aliphatics/Aromatics, BTEX        |
| 1856117 | WS4 0.00-0.30 SOIL | 27/05/21     | PG                   |                                 |                                   |
| 1856118 | WS1 0.00-0.20 SOIL | 27/05/21     | PG                   |                                 |                                   |
| 1856119 | WS2 0.00-0.30 SOIL | 27/05/21     | PG                   |                                 |                                   |

Key: G-Glass J-Jar P-Plastic G-Bag

DETS cannot be held responsible for the integrity of samples received whereby the laboratory did not undertake the sampling. In this instance samples received may be deviating. Deviating Sample criteria are based on British and International standards and laboratory trials in conjunction with the UKAS note 'Guidance on Deviating Samples'. All samples received are listed above. However, those samples that have additional comments in relation to hold time, inappropriate containers etc are deviating due to the reasons stated. This means that the analysis is accredited where applicable, but results may be compromised due to sample deviations. If no sampled date (soils) or date+time (waters) has been supplied then samples are deviating. However, if you are able to supply a sampled date (and time for waters) this will prevent samples being reported as deviating where specific hold times are not exceeded and where the container supplied is suitable.

### Soil Analysis Notes

Inorganic soil analysis was carried out on a dried sample, crushed to pass a 425µm sieve, in accordance with BS1377.  
 Organic soil analysis was carried out on an 'as received' sample. Organics results are corrected for moisture and expressed on a dry weight basis.  
 The Loss on Drying, used to express organics analysis on an air dried basis, is carried out at a temperature of 28°C +/-2°C.

### Disposal

From the issue date of this test certificate, samples will be held for the following times prior to disposal :-  
 Soils - 1 month, Liquids - 2 weeks, Asbestos (test portion) - 6 months

## Appendix A - Details of Analysis

| Method     | Parameter                                   | Units    | Limit of Detection | Sample Preparation | Sub-Contracted | UKAS | MCERTS |
|------------|---------------------------------------------|----------|--------------------|--------------------|----------------|------|--------|
| DETSC 2002 | Organic matter                              | %        | 0.1                | Air Dried          | No             | Yes  | Yes    |
| DETSC 2003 | Loss on ignition                            | %        | 0.01               | Air Dried          | No             | Yes  | Yes    |
| DETSC 2008 | pH                                          | pH Units | 1                  | Air Dried          | No             | Yes  | Yes    |
| DETSC 2024 | Sulphide                                    | mg/kg    | 10                 | Air Dried          | No             | Yes  | Yes    |
| DETSC 2076 | Sulphate Aqueous Extract as SO <sub>4</sub> | mg/l     | 10                 | Air Dried          | No             | Yes  | Yes    |
| DETSC 2084 | Total Carbon                                | %        | 0.5                | Air Dried          | No             | Yes  | Yes    |
| DETSC 2084 | Total Organic Carbon                        | %        | 0.5                | Air Dried          | No             | Yes  | Yes    |
| DETSC 2119 | Ammoniacal Nitrogen as N                    | mg/kg    | 0.5                | Air Dried          | No             | Yes  | Yes    |
| DETSC 2130 | Cyanide free                                | mg/kg    | 0.1                | Air Dried          | No             | Yes  | Yes    |
| DETSC 2130 | Cyanide total                               | mg/kg    | 0.1                | Air Dried          | No             | Yes  | Yes    |
| DETSC 2130 | Phenol - Monohydric                         | mg/kg    | 0.3                | Air Dried          | No             | Yes  | Yes    |
| DETSC 2130 | Thiocyanate                                 | mg/kg    | 0.6                | Air Dried          | No             | Yes  | Yes    |
| DETSC 2321 | Total Sulphate as SO <sub>4</sub>           | %        | 0.01               | Air Dried          | No             | Yes  | Yes    |
| DETSC 2325 | Mercury                                     | mg/kg    | 0.05               | Air Dried          | No             | Yes  | Yes    |
| DETSC 3049 | Sulphur (free)                              | mg/kg    | 0.75               | Air Dried          | No             | Yes  | Yes    |
| DETSC2123  | Boron (water soluble)                       | mg/kg    | 0.2                | Air Dried          | No             | Yes  | Yes    |
| DETSC2301  | Arsenic                                     | mg/kg    | 0.2                | Air Dried          | No             | Yes  | Yes    |
| DETSC2301  | Barium                                      | mg/kg    | 1.5                | Air Dried          | No             | Yes  | Yes    |
| DETSC2301  | Beryllium                                   | mg/kg    | 0.2                | Air Dried          | No             | Yes  | Yes    |
| DETSC2301  | Cadmium Available                           | mg/kg    | 0.1                | Air Dried          | No             | Yes  | Yes    |
| DETSC2301  | Cadmium                                     | mg/kg    | 0.1                | Air Dried          | No             | Yes  | Yes    |
| DETSC2301  | Cobalt                                      | mg/kg    | 0.7                | Air Dried          | No             | Yes  | Yes    |
| DETSC2301  | Chromium                                    | mg/kg    | 0.15               | Air Dried          | No             | Yes  | Yes    |
| DETSC2301  | Copper                                      | mg/kg    | 0.2                | Air Dried          | No             | Yes  | Yes    |
| DETSC2301  | Manganese                                   | mg/kg    | 20                 | Air Dried          | No             | Yes  | Yes    |
| DETSC2301  | Molybdenum                                  | mg/kg    | 0.4                | Air Dried          | No             | Yes  | Yes    |
| DETSC2301  | Nickel                                      | mg/kg    | 1                  | Air Dried          | No             | Yes  | Yes    |
| DETSC2301  | Lead                                        | mg/kg    | 0.3                | Air Dried          | No             | Yes  | Yes    |
| DETSC2301  | Selenium                                    | mg/kg    | 0.5                | Air Dried          | No             | Yes  | Yes    |
| DETSC2301  | Zinc                                        | mg/kg    | 1                  | Air Dried          | No             | Yes  | Yes    |
| DETSC 3072 | Ali/Aro C10-C35                             | mg/kg    | 10                 | As Received        | No             | Yes  | Yes    |
| DETSC 3072 | Aliphatic C10-C12                           | mg/kg    | 1.5                | As Received        | No             | Yes  | Yes    |
| DETSC 3072 | Aliphatic C10-C12                           | mg/kg    | 10                 | As Received        | No             | Yes  | Yes    |
| DETSC 3072 | Aliphatic C10-C35                           | mg/kg    | 10                 | As Received        | No             | Yes  | Yes    |
| DETSC 3072 | Aliphatic C12-C16                           | mg/kg    | 1.2                | As Received        | No             | Yes  | Yes    |
| DETSC 3072 | Aliphatic C12-C16                           | mg/kg    | 10                 | As Received        | No             | Yes  | Yes    |
| DETSC 3072 | Aliphatic C16-C21                           | mg/kg    | 1.5                | As Received        | No             | Yes  | Yes    |
| DETSC 3072 | Aliphatic C16-C21                           | mg/kg    | 10                 | As Received        | No             | Yes  | Yes    |
| DETSC 3072 | Aliphatic C21-C35                           | mg/kg    | 3.4                | As Received        | No             | Yes  | Yes    |
| DETSC 3072 | Aliphatic C21-C35                           | mg/kg    | 3.4                | As Received        | No             | Yes  | Yes    |
| DETSC 3072 | Aromatic C10-C12                            | mg/kg    | 0.9                | As Received        | No             | Yes  | Yes    |
| DETSC 3072 | Aromatic C10-C12                            | mg/kg    | 10                 | As Received        | No             | Yes  | Yes    |
| DETSC 3072 | Aromatic C10-C35                            | mg/kg    | 10                 | As Received        | No             | Yes  | Yes    |
| DETSC 3072 | Aromatic C12-C16                            | mg/kg    | 0.5                | As Received        | No             | Yes  | Yes    |
| DETSC 3072 | Aromatic C12-C16                            | mg/kg    | 10                 | As Received        | No             | Yes  | Yes    |
| DETSC 3072 | Aromatic C16-C21                            | mg/kg    | 0.6                | As Received        | No             | Yes  | Yes    |
| DETSC 3072 | Aromatic C16-C21                            | mg/kg    | 10                 | As Received        | No             | Yes  | Yes    |
| DETSC 3072 | Aromatic C21-C35                            | mg/kg    | 1.4                | As Received        | No             | Yes  | Yes    |
| DETSC 3072 | Aromatic C21-C35                            | mg/kg    | 1.4                | As Received        | No             | Yes  | Yes    |
| DETS 062   | Benzene                                     | mg/kg    | 0.01               | As Received        | No             | Yes  | Yes    |
| DETS 062   | Ethylbenzene                                | mg/kg    | 0.01               | As Received        | No             | Yes  | Yes    |
| DETS 062   | Toluene                                     | mg/kg    | 0.01               | As Received        | No             | Yes  | Yes    |
| DETS 062   | Xylene                                      | mg/kg    | 0.01               | As Received        | No             | Yes  | Yes    |
| DETS 062   | m+p Xylene                                  | mg/kg    | 0.01               | As Received        | No             | Yes  | Yes    |
| DETS 062   | o Xylene                                    | mg/kg    | 0.01               | As Received        | No             | Yes  | Yes    |
| DETSC 3311 | C10-C24 Diesel Range Organics (DRO)         | mg/kg    | 10                 | As Received        | No             | Yes  | Yes    |
| DETSC 3311 | C24-C40 Lube Oil Range Organics (LORO)      | mg/kg    | 10                 | As Received        | No             | Yes  | Yes    |
| DETSC 3311 | EPH (C10-C40)                               | mg/kg    | 10                 | As Received        | No             | Yes  | Yes    |

## Appendix A - Details of Analysis

| Method     | Parameter               | Units | Limit of Detection | Sample Preparation | Sub-Contracted | UKAS | MCERTS |
|------------|-------------------------|-------|--------------------|--------------------|----------------|------|--------|
| DETSC 3303 | Acenaphthene            | mg/kg | 0.03               | As Received        | No             | Yes  | Yes    |
| DETSC 3303 | Acenaphthylene          | mg/kg | 0.03               | As Received        | No             | Yes  | Yes    |
| DETSC 3303 | Benzo(a)pyrene          | mg/kg | 0.03               | As Received        | No             | Yes  | Yes    |
| DETSC 3303 | Benzo(a)anthracene      | mg/kg | 0.03               | As Received        | No             | Yes  | Yes    |
| DETSC 3303 | Benzo(b)fluoranthene    | mg/kg | 0.03               | As Received        | No             | Yes  | Yes    |
| DETSC 3303 | Benzo(k)fluoranthene    | mg/kg | 0.03               | As Received        | No             | Yes  | Yes    |
| DETSC 3303 | Benzo(g,h,i)perylene    | mg/kg | 0.03               | As Received        | No             | Yes  | Yes    |
| DETSC 3303 | Dibenzo(a,h)anthracene  | mg/kg | 0.03               | As Received        | No             | Yes  | Yes    |
| DETSC 3303 | Fluoranthene            | mg/kg | 0.03               | As Received        | No             | Yes  | Yes    |
| DETSC 3303 | Indeno(1,2,3-c,d)pyrene | mg/kg | 0.03               | As Received        | No             | Yes  | Yes    |
| DETSC 3303 | Naphthalene             | mg/kg | 0.03               | As Received        | No             | Yes  | Yes    |
| DETSC 3303 | Phenanthrene            | mg/kg | 0.03               | As Received        | No             | Yes  | Yes    |
| DETSC 3303 | Pyrene                  | mg/kg | 0.03               | As Received        | No             | Yes  | Yes    |
| DETSC 3401 | PCB 28 + PCB 31         | mg/kg | 0.01               | As Received        | No             | Yes  | Yes    |
| DETSC 3401 | PCB 52                  | mg/kg | 0.01               | As Received        | No             | Yes  | Yes    |
| DETSC 3401 | PCB 101                 | mg/kg | 0.01               | As Received        | No             | Yes  | Yes    |
| DETSC 3401 | PCB 118                 | mg/kg | 0.01               | As Received        | No             | Yes  | Yes    |
| DETSC 3401 | PCB 153                 | mg/kg | 0.01               | As Received        | No             | Yes  | Yes    |
| DETSC 3401 | PCB 138                 | mg/kg | 0.01               | As Received        | No             | Yes  | Yes    |
| DETSC 3401 | PCB 180                 | mg/kg | 0.01               | As Received        | No             | Yes  | Yes    |
| DETSC 3401 | PCB Total               | mg/kg | 0.01               | As Received        | No             | Yes  | Yes    |

Method details are shown only for those determinands listed in Annex A of the MCERTS standard. Anything not included on this list falls outside the scope of MCERTS. No Recovery Factors are used in the determination of results. Results reported assume 100% recovery. Full method statements are available on request.

End of Report