

### GARDEN VALIDATION – BELLE VUE

**Project Name:** Belle Vue

**Project Number:** 12-123

**Client:** Countryside

**Date:** 15-11-2023

**Project Manager :** N. Sellars

**E3P Engineer:** H. Mason

**Garden Validation Requirements:** 600 mm cover system (without break layer)

**Plots:** 157-158

### OVERVIEW

An E3P engineer attended the above site to validate the thickness of the cover system placed within the rear garden of plots 157 and 158 at Belle Vue.

In total 2 No hand-excavated trial pits were advanced, with the resulting strata detailed at the rear of this letter.

The trial pits were completed to highlight the required cover system of 600 mm (150 mm topsoil and 450 mm subsoil).

E3P can confirm that our independent validation demonstrates that the rear gardens have been installed with 150 mm of certified topsoil and at least 450 mm subsoil under the NHBC requirements for a site of this nature.

A list of plots requiring validation and their associated validation letters is presented in Table 1 for reference.



Geo-Environmental



Acoustics



Remediation and  
Enabling Earthworks  
Design



Arboriculture



Compliance  
& Due Diligence



Ecology



Industrial Permitting



Geotechnical

## TOPSOIL

E3P attended site on the 6th of June 2022 to obtain three samples and 30th August 2022 to collect six topsoil samples of the stockpiled topsoil deposits which were analysed following the E3P Remediation Strategy. Chemical analysis confirmed that these topsoil deposits were chemically suitable for use within the proposed garden areas.

The topsoil has been exported/ imported from Bellway Homes, Manchester Road, Heywood, OL10 2QA and a total volume of 2370m<sup>3</sup> is required. The topsoil has been imported from a greenfield source, therefore a sample frequency of 1 sample per 200m<sup>3</sup> is being undertaken.

Analysis for topsoil undertaken by I2 Analytical Laboratory using UKAS accredited methods where applicable.

The chemical analysis suite comprises heavy metals, sulphates, phenols, speciated Polycyclic Aromatic Hydrocarbons (PAHs), speciated and total Petroleum Hydrocarbons (TPH) and asbestos. Sampling frequency following the agreed Remediation Strategy. Laboratory analysis certificates are attached to this validation certificate.

Chemical analysis results are included within lab report.

The following chemical analysis results are included within lab reports:

- 22-63323 (TS101-TS103),
- 22-81563 (TS101-TS106)
- 22-90215 (TS101-TS106)

Further sampling will be taken throughout the build phase works.

## SUBSOIL

E3P attended site on the 6th of June 2022 to obtain three samples of the stockpiled subsoil deposits which were analysed in accordance with the E3P Remediation Strategy. Chemical analysis confirmed that these subsoil deposits were chemically suitable for use within the proposed garden areas.

The subsoil has been exported/ imported Priory Chase, Nelson and a total volume of 7000m<sup>3</sup> is required. The subsoil has been imported from a greenfield source, therefore a sample frequency of 1 sample per 200m<sup>3</sup> is being undertaken.

Analysis for subsoil undertaken by I2 Analytical Laboratory using UKAS accredited methods where applicable.

The chemical analysis suite comprises heavy metals, sulphates, phenols, speciated Polycyclic Aromatic Hydrocarbons (PAHs), speciated and total Petroleum Hydrocarbons (TPH) and asbestos. Sampling frequency following the agreed Remediation Strategy. Laboratory analysis certificates are attached to this validation certificate.

The following chemical analysis results are included within the attached lab reports:

- 22-63323 (SS101-SS103)
- 22-62759 (SS101-SS107)

Further sampling will be taken throughout the build phase works.

## CHEMICAL ANALYSIS

| TOPSOIL/SUBSOIL | SOURCE                        | LAB REFERENCE | SAMPLE REFERENCE | PASS/FAIL |
|-----------------|-------------------------------|---------------|------------------|-----------|
| Topsoil         | Offsite – Manchester Road     | 22-63323      | TS101-TS103      | PASS      |
| Topsoil         | Offsite – Manchester Road     | 22-81563      | TS101-TS106      | PASS      |
| Topsoil         | Offsite – Manchester Road     | 22-90215      | TS101-TS106      | PASS      |
| Subsoil         | Offsite – Priory Chase nelson | 22-63323      | SS101-SS103      | PASS      |
| Subsoil         | Offsite – Priory Chase nelson | 22-62759      | S101-S107        | PASS      |

The cover system validation photographs are enclosed within this letter. For information, Table 1 includes references and validation dates of previously validated plots.

TABLE 1 – VALIDATION LETTER REFERENCE

| PLOT NUMBER | REPORT NUMBER | DATE                       |
|-------------|---------------|----------------------------|
| 1           | V4            | 23 <sup>rd</sup> June 2022 |
| 2           | V4            | 23 <sup>rd</sup> June 2022 |
| 3           | V4            | 23 <sup>rd</sup> June 2022 |
| 4           | V3            | 23 <sup>rd</sup> June 2022 |
| 5           | V6            | 4 <sup>th</sup> July 2022  |
| 6           |               |                            |
| 7           |               |                            |
| 8           |               |                            |
| 9           |               |                            |
| 10          |               |                            |
| 11          |               |                            |
| 12          |               |                            |
| 13          |               |                            |
| 14          |               |                            |

| PLOT NUMBER | REPORT NUMBER | DATE |
|-------------|---------------|------|
| 15          |               |      |
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| 34          |               |      |
| 35          |               |      |
| 36          |               |      |

| PLOT NUMBER | REPORT NUMBER | DATE |
|-------------|---------------|------|
| 37          |               |      |
| 38          |               |      |
| 39          |               |      |
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| 57          |               |      |
| 58          |               |      |

| PLOT NUMBER | REPORT NUMBER | DATE |
|-------------|---------------|------|
| 59          |               |      |
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| 79          |               |      |
| 80          |               |      |

| PLOT NUMBER | REPORT NUMBER | DATE                            |
|-------------|---------------|---------------------------------|
| 81          |               |                                 |
| 82          |               |                                 |
| 83          |               |                                 |
| 84          |               |                                 |
| 85          |               |                                 |
| 86          | V17           | 15 <sup>th</sup> December 2022  |
| 87          | V17           | 15 <sup>th</sup> December 2022  |
| 88          | V17           | 15 <sup>th</sup> December 2022  |
| 89          | V30           | 18 <sup>th</sup> April 2023     |
| 90          | V30           | 18 <sup>th</sup> April 2023     |
| 91          | V30           | 18 <sup>th</sup> April 2023     |
| 92          | V30           | 18 <sup>th</sup> April 2023     |
| 93          | V30           | 18 <sup>th</sup> April 2023     |
| 94          | V30           | 18 <sup>th</sup> April 2023     |
| 95          | V30           | 18 <sup>th</sup> April 2023     |
| 96          |               |                                 |
| 97          |               |                                 |
| 98          |               |                                 |
| 99          | V9            | 22 <sup>nd</sup> September 2022 |
| 100         | V9            | 22 <sup>nd</sup> September 2022 |
| 101         | V9            | 22 <sup>nd</sup> September 2022 |
| 102         | V9            | 22 <sup>nd</sup> September 2022 |

| PLOT NUMBER | REPORT NUMBER | DATE                            |
|-------------|---------------|---------------------------------|
| 103         | V9            | 22 <sup>nd</sup> September 2022 |
| 104         | V10           | 23 <sup>rd</sup> September 2022 |
| 105         | V10           | 23 <sup>rd</sup> September 2022 |
| 106         | V11           | 27 <sup>th</sup> September 2022 |
| 107         | V11           | 27 <sup>th</sup> September 2022 |
| 108         | V11           | 27 <sup>th</sup> September 2022 |
| 109         | V11           | 27 <sup>th</sup> September 2022 |
| 110         | V13           | 24 <sup>th</sup> October 2022   |
| 111         | V15           | 14 <sup>th</sup> November 2022  |
| 112         | V15           | 14 <sup>th</sup> November 2022  |
| 113         | V18           | 16 <sup>th</sup> December 2022  |
| 114         | V18           | 16 <sup>th</sup> December 2022  |
| 115         | V18           | 16 <sup>th</sup> December 2022  |
| 116         | V18           | 16 <sup>th</sup> December 2022  |
| 117         | V18           | 16 <sup>th</sup> December 2022  |
| 118         | V18           | 16 <sup>th</sup> December 2022  |
| 119         | V18           | 16 <sup>th</sup> December 2022  |
| 120         | V18           | 16 <sup>th</sup> December 2022  |
| 121         | V18           | 16 <sup>th</sup> December 2022  |
| 122         | V18           | 16 <sup>th</sup> December 2022  |
| 123         | V18           | 16 <sup>th</sup> December 2022  |
| 124         | V18           | 16 <sup>th</sup> December 2022  |

| PLOT NUMBER | REPORT NUMBER | DATE                                                            |
|-------------|---------------|-----------------------------------------------------------------|
| 125         | V20           | 30 <sup>th</sup> January 2023                                   |
| 126         | V20           | 30 <sup>th</sup> January 2023                                   |
| 127         | V20           | 30 <sup>th</sup> January 2023                                   |
| 128         | V20<br>V22    | 30 <sup>th</sup> January 2023<br>14 <sup>th</sup> February 2023 |
| 129         | V22           | 14 <sup>th</sup> February 2023                                  |
| 130         | V25           | 1 <sup>st</sup> March 2023                                      |
| 131         | V25           | 1 <sup>st</sup> March 2023                                      |
| 132         | V25           | 1 <sup>st</sup> March 2023                                      |
| 133         | V25           | 1 <sup>st</sup> March 2023                                      |
| 134         | V25           | 1 <sup>st</sup> March 2023                                      |
| 135         | V25           | 1 <sup>st</sup> March 2023                                      |
| 136         | V16           | 5 <sup>th</sup> December 2022                                   |
| 137         | V16           | 5 <sup>th</sup> December 2022                                   |
| 138         | V16           | 5 <sup>th</sup> December 2022                                   |
| 139         | V16           | 5 <sup>th</sup> December 2022                                   |
| 140         | V14           | 14 <sup>th</sup> November 2022                                  |
| 141         | V14           | 14 <sup>th</sup> November 2022                                  |
| 142         | V14           | 14 <sup>th</sup> November 2022                                  |
| 143         | V12           | 28 <sup>th</sup> September 2022                                 |
| 144         | V12           | 28 <sup>th</sup> September 2022                                 |
| 145         | V12           | 28 <sup>th</sup> September 2022                                 |
| 146         | V9            | 22 <sup>nd</sup> September 2022                                 |

| PLOT NUMBER | REPORT NUMBER | DATE                            |
|-------------|---------------|---------------------------------|
| 147         | V9            | 22 <sup>nd</sup> September 2022 |
| 148         | V8            | 25 <sup>th</sup> August 2022    |
| 149         | V8            | 25 <sup>th</sup> August 2022    |
| 150         | V7            | 23 <sup>rd</sup> August 2022    |
| 151         | V40           | 15 <sup>th</sup> September 2023 |
| 152         | V40           | 15 <sup>th</sup> September 2023 |
| 153         | V40           | 15 <sup>th</sup> September 2023 |
| 154         | V40           | 15 <sup>th</sup> September 2023 |
| 155         | V41           | 3 <sup>rd</sup> October 2023    |
| 156         | V45           | 20 <sup>th</sup> October 2023   |
| 157         | V46           | 15 <sup>th</sup> November 2023  |
| 158         | V46           | 15 <sup>th</sup> November 2023  |
| 159         |               |                                 |
| 160         |               |                                 |
| 161         |               |                                 |
| 162         |               |                                 |
| 163         | V35           | 29 <sup>th</sup> June 2023      |
| 164         | V35           | 29 <sup>th</sup> June 2023      |
| 165         | V33           | 6 <sup>th</sup> June 2023       |
| 166         | V33           | 6 <sup>th</sup> June 2023       |
| 167         | V23           | 16 <sup>th</sup> February 2023  |
| 168         | V19           | 24 <sup>th</sup> January 2023   |

| PLOT NUMBER | REPORT NUMBER | DATE                                                |
|-------------|---------------|-----------------------------------------------------|
| 169         | V19           | 24 <sup>th</sup> January 2023                       |
| 170         | V23           | 16 <sup>th</sup> February 2023                      |
| 171         | V29           | 17 <sup>th</sup> April 2023                         |
| 172         | V29 & V32     | 7 <sup>th</sup> April 2023 – 5 <sup>th</sup> May 23 |
| 173         | V32           | 5 <sup>th</sup> May 2023                            |
| 174         | V32           | 5 <sup>th</sup> May 2023                            |
| 175         | V32           | 5 <sup>th</sup> May 2023                            |
| 176         | V32           | 5 <sup>th</sup> May 2023                            |
| 177         | V32           | 5 <sup>th</sup> May 2023                            |
| 178         | V28           | 17 <sup>th</sup> March 2023                         |
| 179         | V28           | 17 <sup>th</sup> March 2023                         |
| 180         | V28           | 17 <sup>th</sup> March 2023                         |
| 181         | V27           | 10 <sup>th</sup> March 2023                         |
| 182         | V27           | 10 <sup>th</sup> March 2023                         |
| 183         | V28           | 17 <sup>th</sup> March 2023                         |
| 184         | V24           | 21 <sup>st</sup> February 2023                      |
| 185         | V24           | 21 <sup>st</sup> February 2023                      |
| 186         | V26           | 3 <sup>rd</sup> March 2023                          |
| 187         | V26           | 3 <sup>rd</sup> March 2023                          |
| 188         | V31           | 20 <sup>th</sup> April 2023                         |
| 189         | V29           | 17 <sup>th</sup> April 2023                         |
| 190         | V29           | 17 <sup>th</sup> April 2023                         |

| PLOT NUMBER | REPORT NUMBER | DATE                           |
|-------------|---------------|--------------------------------|
| 191         | V21           | February 2023                  |
| 192         | V21           | February 2023                  |
| 193         | V19           | 24 <sup>th</sup> January 2023  |
| 194         | V22           | 14 <sup>th</sup> February 2023 |
| 195         | V22           | 14 <sup>th</sup> February 2023 |
| 196         | V22           | 14 <sup>th</sup> February 2023 |
| 197         | V22           | 14 <sup>th</sup> February 2023 |
| 198         | V22           | 14 <sup>th</sup> February 2023 |
| 199         | V22           | 14 <sup>th</sup> February 2023 |
| 200         | V22           | 14 <sup>th</sup> February 2023 |
| 201         | V22           | 14 <sup>th</sup> February 2023 |
| 202         | V22           | 14 <sup>th</sup> February 2023 |
| 203         | V22           | 14 <sup>th</sup> February 2023 |
| 204         | V33           | 6 <sup>th</sup> June 2023      |
| 205         | V33           | 6 <sup>th</sup> June 2023      |
| 206         | V33           | 6 <sup>th</sup> June 2023      |
| 207         | V33           | 6 <sup>th</sup> June 2023      |
| 208         | V34           | 19 <sup>th</sup> June 2023     |
| 209         | V34           | 19 <sup>th</sup> June 2023     |
| 210         | V35           | 29 <sup>th</sup> June 2023     |
| 211         | V35           | 29 <sup>th</sup> June 2023     |
| 212         | V36           | 27 <sup>th</sup> July 2023     |

| PLOT NUMBER | REPORT NUMBER | DATE                          |
|-------------|---------------|-------------------------------|
| 213         | V36           | 27 <sup>th</sup> July 2023    |
| 214         |               |                               |
| 215         |               |                               |
| 216         |               |                               |
| 217         |               |                               |
| 218         |               |                               |
| 219         |               |                               |
| 220         | V37           | 9 <sup>th</sup> August 2023   |
| 221         | V39           | 18 <sup>th</sup> August 2023  |
| 222         | V39           | 18 <sup>th</sup> August 2023  |
| 223         |               |                               |
| 224         |               |                               |
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| 226         |               |                               |
| 227         |               |                               |
| 228         |               |                               |
| 229         |               |                               |
| 230         | V43           | 11 <sup>th</sup> October 2023 |
| 231         | V43           | 11 <sup>th</sup> October 2023 |
| 232         | V42           | 6 <sup>th</sup> October 2023  |
| 233         | V42           | 6 <sup>th</sup> October 2023  |
| 234         | V44           | 18 <sup>th</sup> October 2023 |

| PLOT NUMBER | REPORT NUMBER | DATE                                                |
|-------------|---------------|-----------------------------------------------------|
| 235         | V44           | 18 <sup>th</sup> October 2023                       |
| 236         | V1            | 31 <sup>st</sup> May 2022                           |
| 237         | V1            | 31 <sup>st</sup> May 2022                           |
| 238         | V1            | 31 <sup>st</sup> May 2022                           |
| 239         | V1            | 31 <sup>st</sup> May 2022                           |
| 240         |               |                                                     |
| 241         | V38           | 15 <sup>th</sup> August 2023                        |
| 242         | V2 & V38      | 15 <sup>th</sup> June 2022/ 15 <sup>th</sup> Aug 23 |
| 243         | V2            | 15 <sup>th</sup> June 2022                          |
| 244         | V5            | 29 <sup>th</sup> June 2022                          |
| 245         | V5            | 29 <sup>th</sup> June 2022                          |
| 246         | V5            | 29 <sup>th</sup> June 2022                          |
| 247         | V5            | 29 <sup>th</sup> June 2022                          |
| 248         |               |                                                     |
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| 255         |               |                                                     |
| 256         |               |                                                     |

| PLOT NUMBER | REPORT NUMBER | DATE |
|-------------|---------------|------|
| 257         |               |      |
| 258         |               |      |
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| 267         |               |      |
| 268         |               |      |

## Garden Cover System Validation

Complete

|                 |                                                                                                                          |
|-----------------|--------------------------------------------------------------------------------------------------------------------------|
| Score           | 10 / 10 (100%)                                                                                                           |
| Site Name       | Belle Vue                                                                                                                |
| Location        | 310 Kirkmanshulme Lane<br>Manchester<br>England<br>M18<br>United Kingdom<br>(53.46199345742204, -<br>2.1856094115478983) |
| Project Number  | 12123                                                                                                                    |
| Developer       | Countryside                                                                                                              |
| Project Manager | Nicola Sellars                                                                                                           |
| Conducted By    | Harriet Mason                                                                                                            |
| Date of visit   | 15 Nov 2023 10:15 AM GMT                                                                                                 |

|                                                                                         |                                                                                       |
|-----------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Plot Validation                                                                         | 10 / 10 (100%)                                                                        |
| Plot Validation                                                                         | 10 / 10 (100%)                                                                        |
| Plot Validation 1                                                                       | 5 / 5 (100%)                                                                          |
| Plot Number                                                                             | 158                                                                                   |
| Is Plot Ready                                                                           | Yes                                                                                   |
| Installation Standard                                                                   | Pass                                                                                  |
| Depth of Cover System Materials (record the depth and support with Photo down the hole) | 600                                                                                   |
|        |                                                                                       |
| Photo 1                                                                                 |                                                                                       |
| Depth of Topsoil (mm)                                                                   | 150                                                                                   |
|      |                                                                                       |
| Photo 2                                                                                 |                                                                                       |
| Depth of Subsoil (mm)                                                                   | 450                                                                                   |
|      |                                                                                       |
| Photo 3                                                                                 |                                                                                       |
| Depth of Cover System at Ground Level (Photo)                                           |  |
|      |                                                                                       |
| Photo 4                                                                                 |                                                                                       |

Depth of Cover System in Relation to Plot (Ensure the whole plot can be seen in the photo)



Photo 5

Soil suitable

Yes

Geotextile membrane present

N/A

|                                                                                            |  |                                     |
|--------------------------------------------------------------------------------------------|--|-------------------------------------|
| Plot Validation 2                                                                          |  | 5 / 5 (100%)                        |
| Plot Number                                                                                |  | 157                                 |
| Is Plot Ready                                                                              |  | Yes                                 |
| Installation Standard                                                                      |  | Pass                                |
| Depth of Cover System Materials (record the depth and support with Photo down the hole)    |  | 600                                 |
|           |  |                                     |
| Photo 6                                                                                    |  |                                     |
| Depth of Topsoil (mm)                                                                      |  | 150                                 |
|          |  |                                     |
| Photo 7                                                                                    |  |                                     |
| Depth of Subsoil (mm)                                                                      |  | 450                                 |
|         |  |                                     |
| Photo 8                                                                                    |  |                                     |
| Depth of Cover System at Ground Level (Photo)                                              |  | <input checked="" type="checkbox"/> |
|         |  |                                     |
| Photo 9                                                                                    |  |                                     |
| Depth of Cover System in Relation to Plot (Ensure the whole plot can be seen in the photo) |  | <input checked="" type="checkbox"/> |



Photo 10

|                                |              |
|--------------------------------|--------------|
| Soil suitable                  | Yes          |
| Geotextile membrane present    | N/A          |
| Site Manager or Representative |              |
| Name                           | James Hanson |
| Signature                      |              |
| 15 Nov 2023 10:11 AM GMT       |              |

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## Media summary



Photo 1



Photo 2



Photo 3



Photo 4



Photo 5



Photo 6



Photo 7



Photo 8



Photo 9



Photo 10

**Rob Horseman**

e3p  
Taylor Road  
Urmston  
Manchester  
M41 7JQ

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

**t:** 01923 225404

**f:** 01923 237404

**e:** reception@i2analytical.com

**e:** Rhorseman@e3p.co.uk

## **Analytical Report Number : 22-62759**

|                             |                     |                                                        |            |
|-----------------------------|---------------------|--------------------------------------------------------|------------|
| <b>Project / Site name:</b> | Priory Chase Nelson | <b>Samples received on:</b>                            | 01/06/2022 |
| <b>Your job number:</b>     | 153737              | <b>Samples instructed on/<br/>Analysis started on:</b> | 01/06/2022 |
| <b>Your order number:</b>   | 001777              | <b>Analysis completed by:</b>                          | 10/06/2022 |
| <b>Report Issue Number:</b> | 1                   | <b>Report issued on:</b>                               | 10/06/2022 |
| <b>Samples Analysed:</b>    | 7 soil samples      |                                                        |            |

**Signed:**



Anna Goc  
Junior Reporting Specialist  
**For & on behalf of i2 Analytical Ltd.**

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

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

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

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

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

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

Analytical Report Number: 22-62759  
 Project / Site name: Priory Chase Nelson  
 Your Order No: 001777

| Lab Sample Number                       |       |                    |                         | 2301484       | 2301485       | 2301486       | 2301487       | 2301488       |
|-----------------------------------------|-------|--------------------|-------------------------|---------------|---------------|---------------|---------------|---------------|
| Sample Reference                        |       |                    |                         | S101          | S102          | S103          | S104          | S105          |
| Sample Number                           |       |                    |                         | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Depth (m)                               |       |                    |                         | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Date Sampled                            |       |                    |                         | 31/05/2022    | 31/05/2022    | 31/05/2022    | 31/05/2022    | 31/05/2022    |
| Time Taken                              |       |                    |                         | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Analytical Parameter<br>(Soil Analysis) | Units | Limit of detection | Accreditation<br>Status |               |               |               |               |               |
| Stone Content                           | %     | 0.1                | NONE                    | < 0.1         | < 0.1         | < 0.1         | < 0.1         | < 0.1         |
| Moisture Content                        | %     | 0.01               | NONE                    | 16            | 13            | 19            | 13            | 16            |
| Total mass of sample received           | kg    | 0.001              | NONE                    | 1.2           | 1.2           | 1.2           | 1.2           | 1.2           |

|                     |      |     |           |              |              |              |              |              |
|---------------------|------|-----|-----------|--------------|--------------|--------------|--------------|--------------|
| Asbestos in Soil    | Type | N/A | ISO 17025 | Not-detected | Not-detected | Not-detected | Not-detected | Not-detected |
| Asbestos Analyst ID | N/A  | N/A | N/A       | NTK          | NTK          | NTK          | NTK          | NTK          |

#### General Inorganics

|                                                                  |          |         |        |       |       |        |        |       |
|------------------------------------------------------------------|----------|---------|--------|-------|-------|--------|--------|-------|
| pH - Automated                                                   | pH Units | N/A     | MCERTS | 7.2   | 7.2   | 6.4    | 5.7    | 7.5   |
| Total Cyanide                                                    | mg/kg    | 1       | MCERTS | < 1.0 | < 1.0 | < 1.0  | < 1.0  | < 1.0 |
| Total Sulphate as SO <sub>4</sub>                                | mg/kg    | 50      | MCERTS | 110   | 110   | 110    | 130    | 390   |
| Water Soluble SO <sub>4</sub> (2:1 Leach. Equiv.) 1hr extraction | g/l      | 0.00125 | MCERTS | 0.014 | 0.008 | 0.0031 | 0.0071 | 0.089 |
| Water Soluble SO <sub>4</sub> (2:1 Leach. Equiv.) 1hr extraction | mg/kg    | 2.5     | MCERTS | 28    | 16    | 6.1    | 14     | 180   |
| Water Soluble SO <sub>4</sub> (2:1 Leach. Equiv.) 1hr extraction | mg/l     | 1.25    | MCERTS | 14.1  | 8     | 3.1    | 7.1    | 89.3  |
| Sulphide                                                         | mg/kg    | 1       | MCERTS | 5.3   | 1.8   | 3.4    | 2.5    | 9.3   |
| Total Sulphur                                                    | mg/kg    | 50      | MCERTS | 67    | 74    | 63     | 72     | 230   |
| Total Organic Carbon (TOC) - Automated                           | %        | 0.1     | MCERTS | 0.7   | 0.6   | 1      | 0.8    | 1.4   |

#### Total Phenols

|                            |       |   |        |       |       |       |       |       |
|----------------------------|-------|---|--------|-------|-------|-------|-------|-------|
| Total Phenols (monohydric) | mg/kg | 1 | MCERTS | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
|----------------------------|-------|---|--------|-------|-------|-------|-------|-------|

#### Speciated PAHs

|                        |       |      |        |        |        |        |        |        |
|------------------------|-------|------|--------|--------|--------|--------|--------|--------|
| Naphthalene            | mg/kg | 0.05 | MCERTS | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Acenaphthylene         | mg/kg | 0.05 | MCERTS | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Acenaphthene           | mg/kg | 0.05 | MCERTS | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Fluorene               | mg/kg | 0.05 | MCERTS | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Phenanthrene           | mg/kg | 0.05 | MCERTS | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Anthracene             | mg/kg | 0.05 | MCERTS | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Fluoranthene           | mg/kg | 0.05 | MCERTS | < 0.05 | < 0.05 | < 0.05 | < 0.05 | 0.43   |
| Pyrene                 | mg/kg | 0.05 | MCERTS | < 0.05 | < 0.05 | < 0.05 | < 0.05 | 0.4    |
| Benzo(a)anthracene     | mg/kg | 0.05 | MCERTS | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Chrysene               | mg/kg | 0.05 | MCERTS | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Benzo(b)fluoranthene   | mg/kg | 0.05 | MCERTS | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Benzo(k)fluoranthene   | mg/kg | 0.05 | MCERTS | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Benzo(a)pyrene         | mg/kg | 0.05 | MCERTS | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Indeno(1,2,3-cd)pyrene | mg/kg | 0.05 | MCERTS | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Dibenz(a,h)anthracene  | mg/kg | 0.05 | MCERTS | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Benzo(ghi)perylene     | mg/kg | 0.05 | MCERTS | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |

#### Total PAH

|                             |       |     |        |        |        |        |        |      |
|-----------------------------|-------|-----|--------|--------|--------|--------|--------|------|
| Speciated Total EPA-16 PAHs | mg/kg | 0.8 | MCERTS | < 0.80 | < 0.80 | < 0.80 | < 0.80 | 0.83 |
|-----------------------------|-------|-----|--------|--------|--------|--------|--------|------|

Analytical Report Number: 22-62759  
 Project / Site name: Priory Chase Nelson  
 Your Order No: 001777

|                                         |       |                    |                         |               |               |               |               |               |
|-----------------------------------------|-------|--------------------|-------------------------|---------------|---------------|---------------|---------------|---------------|
| Lab Sample Number                       |       |                    |                         | 2301484       | 2301485       | 2301486       | 2301487       | 2301488       |
| Sample Reference                        |       |                    |                         | S101          | S102          | S103          | S104          | S105          |
| Sample Number                           |       |                    |                         | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Depth (m)                               |       |                    |                         | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Date Sampled                            |       |                    |                         | 31/05/2022    | 31/05/2022    | 31/05/2022    | 31/05/2022    | 31/05/2022    |
| Time Taken                              |       |                    |                         | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Analytical Parameter<br>(Soil Analysis) | Units | Limit of detection | Accreditation<br>Status |               |               |               |               |               |

#### Heavy Metals / Metalloids

|                                   |       |     |        |       |       |       |       |       |
|-----------------------------------|-------|-----|--------|-------|-------|-------|-------|-------|
| Arsenic (aqua regia extractable)  | mg/kg | 1   | MCERTS | 4.7   | 5.8   | 5.7   | 6.9   | 6     |
| Cadmium (aqua regia extractable)  | mg/kg | 0.2 | MCERTS | < 0.2 | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Chromium (hexavalent)             | mg/kg | 1.8 | MCERTS | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 |
| Chromium (aqua regia extractable) | mg/kg | 1   | MCERTS | 50    | 49    | 47    | 49    | 45    |
| Copper (aqua regia extractable)   | mg/kg | 1   | MCERTS | 21    | 40    | 24    | 22    | 25    |
| Lead (aqua regia extractable)     | mg/kg | 1   | MCERTS | 19    | 18    | 19    | 17    | 31    |
| Mercury (aqua regia extractable)  | mg/kg | 0.3 | MCERTS | < 0.3 | < 0.3 | < 0.3 | < 0.3 | < 0.3 |
| Nickel (aqua regia extractable)   | mg/kg | 1   | MCERTS | 27    | 27    | 27    | 30    | 32    |
| Selenium (aqua regia extractable) | mg/kg | 1   | MCERTS | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| Zinc (aqua regia extractable)     | mg/kg | 1   | MCERTS | 66    | 67    | 71    | 77    | 84    |

#### Petroleum Hydrocarbons

|                                      |       |     |        |       |       |       |       |       |
|--------------------------------------|-------|-----|--------|-------|-------|-------|-------|-------|
| TPH (C5 - C6) HS_1D_TOTAL            | mg/kg | 1   | NONE   | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| TPH (C6 - C8) HS_1D_TOTAL            | mg/kg | 0.1 | MCERTS | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| TPH (C8 - C10) HS_1D_TOTAL           | mg/kg | 0.1 | MCERTS | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| TPH (C10 - C12) EH_CU_1D_TOTAL       | mg/kg | 2   | MCERTS | < 2.0 | < 2.0 | < 2.0 | < 2.0 | < 2.0 |
| TPH (C12 - C16) EH_CU_1D_TOTAL       | mg/kg | 4   | MCERTS | < 4.0 | < 4.0 | < 4.0 | < 4.0 | < 4.0 |
| TPH (C16 - C21) EH_CU_1D_TOTAL       | mg/kg | 1   | MCERTS | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| TPH (C21 - C35) EH_CU_1D_TOTAL       | mg/kg | 1   | MCERTS | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| TPH (C35 - C40) EH_CU_1D_TOTAL       | mg/kg | 10  | MCERTS | < 10  | < 10  | < 10  | < 10  | < 10  |
| TPH Total C5 - C40 EH_CU+HS_1D_TOTAL | mg/kg | 10  | MCERTS | < 10  | < 10  | < 10  | < 10  | < 10  |

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

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 Your Order No: 001777

| Lab Sample Number                       |       |                    |                         | 2301489       | 2301490       |
|-----------------------------------------|-------|--------------------|-------------------------|---------------|---------------|
| Sample Reference                        |       |                    |                         | S106          | S107          |
| Sample Number                           |       |                    |                         | None Supplied | None Supplied |
| Depth (m)                               |       |                    |                         | None Supplied | None Supplied |
| Date Sampled                            |       |                    |                         | 31/05/2022    | 31/05/2022    |
| Time Taken                              |       |                    |                         | None Supplied | None Supplied |
| Analytical Parameter<br>(Soil Analysis) | Units | Limit of detection | Accreditation<br>Status |               |               |
| Stone Content                           | %     | 0.1                | NONE                    | < 0.1         | < 0.1         |
| Moisture Content                        | %     | 0.01               | NONE                    | 20            | 11            |
| Total mass of sample received           | kg    | 0.001              | NONE                    | 0.6           | 1.2           |

|                     |      |     |           |              |              |
|---------------------|------|-----|-----------|--------------|--------------|
| Asbestos in Soil    | Type | N/A | ISO 17025 | Not-detected | Not-detected |
| Asbestos Analyst ID | N/A  | N/A | N/A       | NTK          | NTK          |

#### General Inorganics

|                                                                  |          |         |        |       |       |
|------------------------------------------------------------------|----------|---------|--------|-------|-------|
| pH - Automated                                                   | pH Units | N/A     | MCERTS | 7.3   | 8.1   |
| Total Cyanide                                                    | mg/kg    | 1       | MCERTS | < 1.0 | < 1.0 |
| Total Sulphate as SO <sub>4</sub>                                | mg/kg    | 50      | MCERTS | 420   | 650   |
| Water Soluble SO <sub>4</sub> (2:1 Leach. Equiv.) 1hr extraction | g/l      | 0.00125 | MCERTS | 0.13  | 0.19  |
| Water Soluble SO <sub>4</sub> (2:1 Leach. Equiv.) 1hr extraction | mg/kg    | 2.5     | MCERTS | 260   | 380   |
| Water Soluble SO <sub>4</sub> (2:1 Leach. Equiv.) 1hr extraction | mg/l     | 1.25    | MCERTS | 130   | 190   |
| Sulphide                                                         | mg/kg    | 1       | MCERTS | 5.8   | 15    |
| Total Sulphur                                                    | mg/kg    | 50      | MCERTS | 280   | 290   |
| Total Organic Carbon (TOC) - Automated                           | %        | 0.1     | MCERTS | 1     | 1.1   |

#### Total Phenols

|                            |       |   |        |       |       |
|----------------------------|-------|---|--------|-------|-------|
| Total Phenols (monohydric) | mg/kg | 1 | MCERTS | < 1.0 | < 1.0 |
|----------------------------|-------|---|--------|-------|-------|

#### Speciated PAHs

|                        |       |      |        |        |        |
|------------------------|-------|------|--------|--------|--------|
| Naphthalene            | mg/kg | 0.05 | MCERTS | < 0.05 | < 0.05 |
| Acenaphthylene         | mg/kg | 0.05 | MCERTS | < 0.05 | < 0.05 |
| Acenaphthene           | mg/kg | 0.05 | MCERTS | < 0.05 | < 0.05 |
| Fluorene               | mg/kg | 0.05 | MCERTS | < 0.05 | < 0.05 |
| Phenanthrene           | mg/kg | 0.05 | MCERTS | < 0.05 | 0.4    |
| Anthracene             | mg/kg | 0.05 | MCERTS | < 0.05 | < 0.05 |
| Fluoranthene           | mg/kg | 0.05 | MCERTS | < 0.05 | 0.83   |
| Pyrene                 | mg/kg | 0.05 | MCERTS | < 0.05 | 0.86   |
| Benzo(a)anthracene     | mg/kg | 0.05 | MCERTS | < 0.05 | 0.65   |
| Chrysene               | mg/kg | 0.05 | MCERTS | < 0.05 | 0.56   |
| Benzo(b)fluoranthene   | mg/kg | 0.05 | MCERTS | < 0.05 | 0.58   |
| Benzo(k)fluoranthene   | mg/kg | 0.05 | MCERTS | < 0.05 | 0.29   |
| Benzo(a)pyrene         | mg/kg | 0.05 | MCERTS | < 0.05 | 0.47   |
| Indeno(1,2,3-cd)pyrene | mg/kg | 0.05 | MCERTS | < 0.05 | < 0.05 |
| Dibenz(a,h)anthracene  | mg/kg | 0.05 | MCERTS | < 0.05 | < 0.05 |
| Benzo(ghi)perylene     | mg/kg | 0.05 | MCERTS | < 0.05 | < 0.05 |

#### Total PAH

|                             |       |     |        |        |      |
|-----------------------------|-------|-----|--------|--------|------|
| Speciated Total EPA-16 PAHs | mg/kg | 0.8 | MCERTS | < 0.80 | 4.64 |
|-----------------------------|-------|-----|--------|--------|------|

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**Project / Site name: Priory Chase Nelson**  
**Your Order No: 001777**

|                                                 |              |                           |                                 |               |               |
|-------------------------------------------------|--------------|---------------------------|---------------------------------|---------------|---------------|
| <b>Lab Sample Number</b>                        |              |                           |                                 | 2301489       | 2301490       |
| <b>Sample Reference</b>                         |              |                           |                                 | S106          | S107          |
| <b>Sample Number</b>                            |              |                           |                                 | None Supplied | None Supplied |
| <b>Depth (m)</b>                                |              |                           |                                 | None Supplied | None Supplied |
| <b>Date Sampled</b>                             |              |                           |                                 | 31/05/2022    | 31/05/2022    |
| <b>Time Taken</b>                               |              |                           |                                 | None Supplied | None Supplied |
| <b>Analytical Parameter<br/>(Soil Analysis)</b> | <b>Units</b> | <b>Limit of detection</b> | <b>Accreditation<br/>Status</b> |               |               |
| <b>Heavy Metals / Metalloids</b>                |              |                           |                                 |               |               |
| Arsenic (aqua regia extractable)                | mg/kg        | 1                         | MCERTS                          | 5.2           | 6.3           |
| Cadmium (aqua regia extractable)                | mg/kg        | 0.2                       | MCERTS                          | < 0.2         | < 0.2         |
| Chromium (hexavalent)                           | mg/kg        | 1.8                       | MCERTS                          | < 1.8         | < 1.8         |
| Chromium (aqua regia extractable)               | mg/kg        | 1                         | MCERTS                          | 47            | 51            |
| Copper (aqua regia extractable)                 | mg/kg        | 1                         | MCERTS                          | 14            | 24            |
| Lead (aqua regia extractable)                   | mg/kg        | 1                         | MCERTS                          | 25            | 29            |
| Mercury (aqua regia extractable)                | mg/kg        | 0.3                       | MCERTS                          | < 0.3         | < 0.3         |
| Nickel (aqua regia extractable)                 | mg/kg        | 1                         | MCERTS                          | 25            | 31            |
| Selenium (aqua regia extractable)               | mg/kg        | 1                         | MCERTS                          | < 1.0         | < 1.0         |
| Zinc (aqua regia extractable)                   | mg/kg        | 1                         | MCERTS                          | 91            | 87            |

#### Petroleum Hydrocarbons

|                                                     |       |     |        |       |       |
|-----------------------------------------------------|-------|-----|--------|-------|-------|
| TPH (C5 - C6) <small>HS_1D_TOTAL</small>            | mg/kg | 1   | NONE   | < 1.0 | < 1.0 |
| TPH (C6 - C8) <small>HS_1D_TOTAL</small>            | mg/kg | 0.1 | MCERTS | < 0.1 | < 0.1 |
| TPH (C8 - C10) <small>HS_1D_TOTAL</small>           | mg/kg | 0.1 | MCERTS | < 0.1 | < 0.1 |
| TPH (C10 - C12) <small>EH_CU_1D_TOTAL</small>       | mg/kg | 2   | MCERTS | < 2.0 | < 2.0 |
| TPH (C12 - C16) <small>EH_CU_1D_TOTAL</small>       | mg/kg | 4   | MCERTS | < 4.0 | < 4.0 |
| TPH (C16 - C21) <small>EH_CU_1D_TOTAL</small>       | mg/kg | 1   | MCERTS | < 1.0 | < 1.0 |
| TPH (C21 - C35) <small>EH_CU_1D_TOTAL</small>       | mg/kg | 1   | MCERTS | < 1.0 | < 1.0 |
| TPH (C35 - C40) <small>EH_CU_1D_TOTAL</small>       | mg/kg | 10  | MCERTS | < 10  | < 10  |
| TPH Total C5 - C40 <small>EH_CU+HS_1D_TOTAL</small> | mg/kg | 10  | MCERTS | < 10  | < 10  |

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

**Analytical Report Number : 22-62759**  
**Project / Site name: Priory Chase Nelson**

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

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

| Lab Sample Number | Sample Reference | Sample Number | Depth (m)     | Sample Description *                            |
|-------------------|------------------|---------------|---------------|-------------------------------------------------|
| 2301484           | S101             | None Supplied | None Supplied | Brown clay and sand with gravel.                |
| 2301485           | S102             | None Supplied | None Supplied | Brown clay and sand with gravel.                |
| 2301486           | S103             | None Supplied | None Supplied | Brown clay and sand.                            |
| 2301487           | S104             | None Supplied | None Supplied | Brown clay and sand.                            |
| 2301488           | S105             | None Supplied | None Supplied | Brown clay and sand with gravel.                |
| 2301489           | S106             | None Supplied | None Supplied | Brown clay and sand with gravel and vegetation. |
| 2301490           | S107             | None Supplied | None Supplied | Brown clay and sand with gravel and vegetation. |

**Analytical Report Number : 22-62759**  
**Project / Site name: Priory Chase Nelson**

**Water matrix abbreviations:**  
**Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)**

| Analytical Test Name                               | Analytical Method Description                                                                                                                                          | Analytical Method Reference                                                                                     | Method number | Wet / Dry Analysis | Accreditation Status |
|----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|---------------|--------------------|----------------------|
| Metals in soil by ICP-OES                          | Determination of metals in soil by aqua-regia digestion followed by ICP-OES.                                                                                           | In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.                            | L038-PL       | D                  | MCERTS               |
| Sulphate, water soluble, in soil (16hr extraction) | Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).              | In house method.                                                                                                | L038-PL       | D                  | MCERTS               |
| Asbestos identification in soil                    | Asbestos Identification with the use of polarised light microscopy in conjunction with disperion staining techniques.                                                  | In house method based on HSG 248                                                                                | A001-PL       | D                  | ISO 17025            |
| Moisture Content                                   | Moisture content, determined gravimetrically. (30 oC)                                                                                                                  | In house method.                                                                                                | L019-UK/PL    | W                  | NONE                 |
| Monohydric phenols in soil                         | Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry.                                                 | In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar) | L080-PL       | W                  | MCERTS               |
| Speciated EPA-16 PAHs in soil                      | Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.                 | In-house method based on USEPA 8270                                                                             | L064-PL       | D                  | MCERTS               |
| pH in soil (automated)                             | Determination of pH in soil by addition of water followed by automated electrometric measurement.                                                                      | In house method.                                                                                                | L099-PL       | D                  | MCERTS               |
| Sulphide in soil                                   | Determination of sulphide in soil by acidification and heating to liberate hydrogen sulphide, trapped in an alkaline solution then assayed by ion selective electrode. | In-house method                                                                                                 | L010-PL       | D                  | MCERTS               |
| Total sulphate (as SO4 in soil)                    | Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES.                                                                                | In house method.                                                                                                | L038-PL       | D                  | MCERTS               |
| Stones content of soil                             | Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.                                            | In-house method based on British Standard Methods and MCERTS requirements.                                      | L019-UK/PL    | D                  | NONE                 |
| Total Sulphur in soil                              | Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES.                                                   | In house method.                                                                                                | L038-PL       | D                  | MCERTS               |
| Total cyanide in soil                              | Determination of total cyanide by distillation followed by colorimetry.                                                                                                | In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar) | L080-PL       | W                  | MCERTS               |
| Total organic carbon (Automated) in soil           | Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.                                          | In house method.                                                                                                | L009-PL       | D                  | MCERTS               |
| TPH in (Soil)                                      | Determination of TPH bands by HS-GC-MS/GC-FID                                                                                                                          | In-house method, TPH with carbon banding and silica gel split/cleanup.                                          | L076-PL       | D                  | MCERTS               |
| Hexavalent chromium in soil                        | Determination of hexavalent chromium in soil by extraction in NaOH and addition of 1,5 diphenylcarbazide followed by colorimetry.                                      | In-house method                                                                                                 | L080-PL       | W                  | MCERTS               |
| Sulphate, water soluble, in soil (1hr extraction)  | Sulphate, water soluble, in soil (1hr extraction)                                                                                                                      | In-house method                                                                                                 | L038-PL       | D                  | MCERTS               |

**Analytical Report Number : 22-62759**  
**Project / Site name: Priory Chase Nelson**

**Water matrix abbreviations:**  
**Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)**

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

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.

For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.

Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

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

## Information in Support of Analytical Results

### List of HWOL Acronyms and Operators

| Acronym | Descriptions                                                           |
|---------|------------------------------------------------------------------------|
| HS      | Headspace Analysis                                                     |
| MS      | Mass spectrometry                                                      |
| FID     | Flame Ionisation Detector                                              |
| GC      | Gas Chromatography                                                     |
| EH      | Extractable Hydrocarbons (i.e. everything extracted by the solvent(s)) |
| CU      | Clean-up - e.g. by Florisil®, silica gel                               |
| 1D      | GC - Single coil/column gas chromatography                             |
| 2D      | GC-GC - Double coil/column gas chromatography                          |
| Total   | Aliphatics & Aromatics                                                 |
| AL      | Aliphatics                                                             |
| AR      | Aromatics                                                              |
| #1      | EH_2D_Total but with humics mathematically subtracted                  |
| #2      | EH_2D_Total but with fatty acids mathematically subtracted             |
| _       | Operator - understore to separate acronyms (exception for +)           |
| +       | Operator to indicate cumulative e.g. EH+HS_Total or EH_CU+HS_Total     |

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## **Analytical Report Number : 22-63323**

|                             |                |                                                        |            |
|-----------------------------|----------------|--------------------------------------------------------|------------|
| <b>Project / Site name:</b> | Belle Vue      | <b>Samples received on:</b>                            | 07/06/2022 |
| <b>Your job number:</b>     | 12 123         | <b>Samples instructed on/<br/>Analysis started on:</b> | 08/06/2022 |
| <b>Your order number:</b>   | 001821         | <b>Analysis completed by:</b>                          | 15/06/2022 |
| <b>Report Issue Number:</b> | 1              | <b>Report issued on:</b>                               | 15/06/2022 |
| <b>Samples Analysed:</b>    | 6 soil samples |                                                        |            |

**Signed:**



Adam Fenwick  
Technical Reviewer  
**For & on behalf of i2 Analytical Ltd.**

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

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

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

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

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

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

Analytical Report Number: 22-63323  
 Project / Site name: Belle Vue  
 Your Order No: 001821

| Lab Sample Number                       |       |                    |                         | 2304896       | 2304897       | 2304898       | 2304899       | 2304900       |
|-----------------------------------------|-------|--------------------|-------------------------|---------------|---------------|---------------|---------------|---------------|
| Sample Reference                        |       |                    |                         | TS101         | TS102         | TS103         | SS101         | SS102         |
| Sample Number                           |       |                    |                         | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Depth (m)                               |       |                    |                         | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Date Sampled                            |       |                    |                         | 06/06/2022    | 06/06/2022    | 06/06/2022    | 06/06/2022    | 06/06/2022    |
| Time Taken                              |       |                    |                         | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Analytical Parameter<br>(Soil Analysis) | Units | Limit of detection | Accreditation<br>Status |               |               |               |               |               |
| Stone Content                           | %     | 0.1                | NONE                    | < 0.1         | < 0.1         | < 0.1         | < 0.1         | < 0.1         |
| Moisture Content                        | %     | 0.01               | NONE                    | 27            | 16            | 22            | 23            | 21            |
| Total mass of sample received           | kg    | 0.001              | NONE                    | 0.3           | 0.3           | 0.3           | 0.3           | 0.3           |

|                     |      |     |           |              |              |              |              |              |
|---------------------|------|-----|-----------|--------------|--------------|--------------|--------------|--------------|
| Asbestos in Soil    | Type | N/A | ISO 17025 | Not-detected | Not-detected | Not-detected | Not-detected | Not-detected |
| Asbestos Analyst ID | N/A  | N/A | N/A       | MDB          | MDB          | MDB          | MDB          | MDB          |

#### General Inorganics

|                                                                  |          |         |        |       |       |       |       |       |
|------------------------------------------------------------------|----------|---------|--------|-------|-------|-------|-------|-------|
| pH - Automated                                                   | pH Units | N/A     | MCERTS | 6.8   | 7.3   | 7.1   | 7.4   | 7.2   |
| Total Cyanide                                                    | mg/kg    | 1       | MCERTS | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| Total Sulphate as SO <sub>4</sub>                                | mg/kg    | 50      | MCERTS | 740   | 610   | 890   | 580   | 510   |
| Water Soluble SO <sub>4</sub> (2:1 Leach. Equiv.) 1hr extraction | g/l      | 0.00125 | MCERTS | 0.093 | 0.12  | 0.14  | 0.091 | 0.086 |
| Water Soluble SO <sub>4</sub> (2:1 Leach. Equiv.) 1hr extraction | mg/kg    | 2.5     | MCERTS | 190   | 240   | 270   | 180   | 170   |
| Water Soluble SO <sub>4</sub> (2:1 Leach. Equiv.) 1hr extraction | mg/l     | 1.25    | MCERTS | 93.1  | 120   | 137   | 91.1  | 85.6  |
| Sulphide                                                         | mg/kg    | 1       | MCERTS | 2.1   | 1.3   | 12    | 4.5   | 4.2   |
| Total Sulphur                                                    | mg/kg    | 50      | MCERTS | 590   | 550   | 530   | 320   | 360   |
| Total Organic Carbon (TOC) - Automated                           | %        | 0.1     | MCERTS | 3.3   | 2     | 2.7   | 1.4   | 1.6   |

#### Total Phenols

|                            |       |   |        |       |       |       |       |       |
|----------------------------|-------|---|--------|-------|-------|-------|-------|-------|
| Total Phenols (monohydric) | mg/kg | 1 | MCERTS | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
|----------------------------|-------|---|--------|-------|-------|-------|-------|-------|

#### Speciated PAHs

|                        |       |      |        |        |        |        |        |        |
|------------------------|-------|------|--------|--------|--------|--------|--------|--------|
| Naphthalene            | mg/kg | 0.05 | MCERTS | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Acenaphthylene         | mg/kg | 0.05 | MCERTS | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Acenaphthene           | mg/kg | 0.05 | MCERTS | < 0.05 | < 0.05 | 0.21   | < 0.05 | < 0.05 |
| Fluorene               | mg/kg | 0.05 | MCERTS | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Phenanthrene           | mg/kg | 0.05 | MCERTS | 0.44   | 0.5    | 1      | 0.75   | 0.51   |
| Anthracene             | mg/kg | 0.05 | MCERTS | < 0.05 | < 0.05 | 0.23   | 0.2    | < 0.05 |
| Fluoranthene           | mg/kg | 0.05 | MCERTS | 0.51   | 0.6    | 1      | 0.78   | 0.86   |
| Pyrene                 | mg/kg | 0.05 | MCERTS | 0.42   | 0.54   | 0.82   | 0.64   | 0.76   |
| Benzo(a)anthracene     | mg/kg | 0.05 | MCERTS | 0.26   | 0.3    | 0.45   | 0.38   | 0.53   |
| Chrysene               | mg/kg | 0.05 | MCERTS | 0.2    | 0.27   | 0.39   | 0.29   | 0.37   |
| Benzo(b)fluoranthene   | mg/kg | 0.05 | MCERTS | < 0.05 | < 0.05 | 0.35   | 0.27   | 0.38   |
| Benzo(k)fluoranthene   | mg/kg | 0.05 | MCERTS | < 0.05 | < 0.05 | 0.2    | 0.15   | 0.21   |
| Benzo(a)pyrene         | mg/kg | 0.05 | MCERTS | < 0.05 | < 0.05 | 0.39   | 0.29   | 0.34   |
| Indeno(1,2,3-cd)pyrene | mg/kg | 0.05 | MCERTS | < 0.05 | < 0.05 | 0.2    | < 0.05 | < 0.05 |
| Dibenz(a,h)anthracene  | mg/kg | 0.05 | MCERTS | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Benzo(ghi)perylene     | mg/kg | 0.05 | MCERTS | < 0.05 | < 0.05 | 0.21   | < 0.05 | < 0.05 |

#### Total PAH

|                             |       |     |        |      |      |      |      |      |
|-----------------------------|-------|-----|--------|------|------|------|------|------|
| Speciated Total EPA-16 PAHs | mg/kg | 0.8 | MCERTS | 1.83 | 2.21 | 5.47 | 3.75 | 3.96 |
|-----------------------------|-------|-----|--------|------|------|------|------|------|

**Analytical Report Number: 22-63323**  
**Project / Site name: Belle Vue**  
**Your Order No: 001821**

|                                                 |              |                           |                                 |               |               |               |               |               |
|-------------------------------------------------|--------------|---------------------------|---------------------------------|---------------|---------------|---------------|---------------|---------------|
| <b>Lab Sample Number</b>                        |              |                           |                                 | 2304896       | 2304897       | 2304898       | 2304899       | 2304900       |
| <b>Sample Reference</b>                         |              |                           |                                 | TS101         | TS102         | TS103         | SS101         | SS102         |
| <b>Sample Number</b>                            |              |                           |                                 | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| <b>Depth (m)</b>                                |              |                           |                                 | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| <b>Date Sampled</b>                             |              |                           |                                 | 06/06/2022    | 06/06/2022    | 06/06/2022    | 06/06/2022    | 06/06/2022    |
| <b>Time Taken</b>                               |              |                           |                                 | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| <b>Analytical Parameter<br/>(Soil Analysis)</b> | <b>Units</b> | <b>Limit of detection</b> | <b>Accreditation<br/>Status</b> |               |               |               |               |               |

#### Heavy Metals / Metalloids

|                                   |       |     |        |       |       |       |       |       |
|-----------------------------------|-------|-----|--------|-------|-------|-------|-------|-------|
| Arsenic (aqua regia extractable)  | mg/kg | 1   | MCERTS | 9.4   | 8.8   | 9.8   | 7.4   | 6.9   |
| Cadmium (aqua regia extractable)  | mg/kg | 0.2 | MCERTS | < 0.2 | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Chromium (hexavalent)             | mg/kg | 1.8 | MCERTS | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 |
| Chromium (aqua regia extractable) | mg/kg | 1   | MCERTS | 35    | 32    | 36    | 45    | 47    |
| Copper (aqua regia extractable)   | mg/kg | 1   | MCERTS | 19    | 20    | 23    | 28    | 26    |
| Lead (aqua regia extractable)     | mg/kg | 1   | MCERTS | 26    | 23    | 27    | 32    | 36    |
| Mercury (aqua regia extractable)  | mg/kg | 0.3 | MCERTS | < 0.3 | < 0.3 | < 0.3 | < 0.3 | < 0.3 |
| Nickel (aqua regia extractable)   | mg/kg | 1   | MCERTS | 22    | 21    | 24    | 29    | 31    |
| Selenium (aqua regia extractable) | mg/kg | 1   | MCERTS | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| Zinc (aqua regia extractable)     | mg/kg | 1   | MCERTS | 52    | 46    | 57    | 85    | 92    |

#### Petroleum Hydrocarbons

|                                                     |       |     |        |       |       |       |       |       |
|-----------------------------------------------------|-------|-----|--------|-------|-------|-------|-------|-------|
| TPH (C5 - C6) <small>HS_1D_TOTAL</small>            | mg/kg | 1   | NONE   | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| TPH (C6 - C8) <small>HS_1D_TOTAL</small>            | mg/kg | 0.1 | MCERTS | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| TPH (C8 - C10) <small>HS_1D_TOTAL</small>           | mg/kg | 0.1 | MCERTS | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| TPH (C10 - C12) <small>EH_CU_1D_TOTAL</small>       | mg/kg | 2   | MCERTS | < 2.0 | < 2.0 | < 2.0 | < 2.0 | < 2.0 |
| TPH (C12 - C16) <small>EH_CU_1D_TOTAL</small>       | mg/kg | 4   | MCERTS | < 4.0 | < 4.0 | < 4.0 | < 4.0 | < 4.0 |
| TPH (C16 - C21) <small>EH_CU_1D_TOTAL</small>       | mg/kg | 1   | MCERTS | < 1.0 | < 1.0 | 8.1   | < 1.0 | < 1.0 |
| TPH (C21 - C35) <small>EH_CU_1D_TOTAL</small>       | mg/kg | 1   | MCERTS | < 1.0 | < 1.0 | 22    | < 1.0 | < 1.0 |
| TPH (C35 - C40) <small>EH_CU_1D_TOTAL</small>       | mg/kg | 10  | MCERTS | < 10  | < 10  | < 10  | < 10  | < 10  |
| TPH Total C5 - C40 <small>EH_CU+HS_1D_TOTAL</small> | mg/kg | 10  | MCERTS | < 10  | < 10  | 30    | < 10  | < 10  |

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

Analytical Report Number: 22-63323  
 Project / Site name: Belle Vue  
 Your Order No: 001821

| Lab Sample Number                       |       |                    |                         | 2304901       |
|-----------------------------------------|-------|--------------------|-------------------------|---------------|
| Sample Reference                        |       |                    |                         | SS103         |
| Sample Number                           |       |                    |                         | None Supplied |
| Depth (m)                               |       |                    |                         | None Supplied |
| Date Sampled                            |       |                    |                         | 06/06/2022    |
| Time Taken                              |       |                    |                         | None Supplied |
| Analytical Parameter<br>(Soil Analysis) | Units | Limit of detection | Accreditation<br>Status |               |
| Stone Content                           | %     | 0.1                | NONE                    | < 0.1         |
| Moisture Content                        | %     | 0.01               | NONE                    | 18            |
| Total mass of sample received           | kg    | 0.001              | NONE                    | 0.3           |

|                     |      |     |           |              |
|---------------------|------|-----|-----------|--------------|
| Asbestos in Soil    | Type | N/A | ISO 17025 | Not-detected |
| Asbestos Analyst ID | N/A  | N/A | N/A       | MDB          |

#### General Inorganics

|                                                                  |          |         |        |       |
|------------------------------------------------------------------|----------|---------|--------|-------|
| pH - Automated                                                   | pH Units | N/A     | MCERTS | 7.2   |
| Total Cyanide                                                    | mg/kg    | 1       | MCERTS | < 1.0 |
| Total Sulphate as SO <sub>4</sub>                                | mg/kg    | 50      | MCERTS | 320   |
| Water Soluble SO <sub>4</sub> (2:1 Leach. Equiv.) 1hr extraction | g/l      | 0.00125 | MCERTS | 0.088 |
| Water Soluble SO <sub>4</sub> (2:1 Leach. Equiv.) 1hr extraction | mg/kg    | 2.5     | MCERTS | 180   |
| Water Soluble SO <sub>4</sub> (2:1 Leach. Equiv.) 1hr extraction | mg/l     | 1.25    | MCERTS | 88    |
| Sulphide                                                         | mg/kg    | 1       | MCERTS | 1.9   |
| Total Sulphur                                                    | mg/kg    | 50      | MCERTS | 280   |
| Total Organic Carbon (TOC) - Automated                           | %        | 0.1     | MCERTS | 1.2   |

#### Total Phenols

|                            |       |   |        |       |
|----------------------------|-------|---|--------|-------|
| Total Phenols (monohydric) | mg/kg | 1 | MCERTS | < 1.0 |
|----------------------------|-------|---|--------|-------|

#### Speciated PAHs

|                        |       |      |        |        |
|------------------------|-------|------|--------|--------|
| Naphthalene            | mg/kg | 0.05 | MCERTS | < 0.05 |
| Acenaphthylene         | mg/kg | 0.05 | MCERTS | < 0.05 |
| Acenaphthene           | mg/kg | 0.05 | MCERTS | < 0.05 |
| Fluorene               | mg/kg | 0.05 | MCERTS | < 0.05 |
| Phenanthrene           | mg/kg | 0.05 | MCERTS | 0.82   |
| Anthracene             | mg/kg | 0.05 | MCERTS | 0.21   |
| Fluoranthene           | mg/kg | 0.05 | MCERTS | 0.92   |
| Pyrene                 | mg/kg | 0.05 | MCERTS | 0.79   |
| Benzo(a)anthracene     | mg/kg | 0.05 | MCERTS | 0.37   |
| Chrysene               | mg/kg | 0.05 | MCERTS | 0.42   |
| Benzo(b)fluoranthene   | mg/kg | 0.05 | MCERTS | 0.44   |
| Benzo(k)fluoranthene   | mg/kg | 0.05 | MCERTS | 0.13   |
| Benzo(a)pyrene         | mg/kg | 0.05 | MCERTS | 0.33   |
| Indeno(1,2,3-cd)pyrene | mg/kg | 0.05 | MCERTS | < 0.05 |
| Dibenz(a,h)anthracene  | mg/kg | 0.05 | MCERTS | < 0.05 |
| Benzo(ghi)perylene     | mg/kg | 0.05 | MCERTS | < 0.05 |

#### Total PAH

|                             |       |     |        |      |
|-----------------------------|-------|-----|--------|------|
| Speciated Total EPA-16 PAHs | mg/kg | 0.8 | MCERTS | 4.43 |
|-----------------------------|-------|-----|--------|------|

Analytical Report Number: 22-63323

Project / Site name: Belle Vue

Your Order No: 001821

| Lab Sample Number                       |       |                    |                         | 2304901       |
|-----------------------------------------|-------|--------------------|-------------------------|---------------|
| Sample Reference                        |       |                    |                         | SS103         |
| Sample Number                           |       |                    |                         | None Supplied |
| Depth (m)                               |       |                    |                         | None Supplied |
| Date Sampled                            |       |                    |                         | 06/06/2022    |
| Time Taken                              |       |                    |                         | None Supplied |
| Analytical Parameter<br>(Soil Analysis) | Units | Limit of detection | Accreditation<br>Status |               |
| <b>Heavy Metals / Metalloids</b>        |       |                    |                         |               |
| Arsenic (aqua regia extractable)        | mg/kg | 1                  | MCERTS                  | 7.5           |
| Cadmium (aqua regia extractable)        | mg/kg | 0.2                | MCERTS                  | < 0.2         |
| Chromium (hexavalent)                   | mg/kg | 1.8                | MCERTS                  | < 1.8         |
| Chromium (aqua regia extractable)       | mg/kg | 1                  | MCERTS                  | 50            |
| Copper (aqua regia extractable)         | mg/kg | 1                  | MCERTS                  | 29            |
| Lead (aqua regia extractable)           | mg/kg | 1                  | MCERTS                  | 28            |
| Mercury (aqua regia extractable)        | mg/kg | 0.3                | MCERTS                  | < 0.3         |
| Nickel (aqua regia extractable)         | mg/kg | 1                  | MCERTS                  | 34            |
| Selenium (aqua regia extractable)       | mg/kg | 1                  | MCERTS                  | < 1.0         |
| Zinc (aqua regia extractable)           | mg/kg | 1                  | MCERTS                  | 91            |

#### Petroleum Hydrocarbons

|                                                     |       |     |        |       |
|-----------------------------------------------------|-------|-----|--------|-------|
| TPH (C5 - C6) <small>HS_1D_TOTAL</small>            | mg/kg | 1   | NONE   | < 1.0 |
| TPH (C6 - C8) <small>HS_1D_TOTAL</small>            | mg/kg | 0.1 | MCERTS | < 0.1 |
| TPH (C8 - C10) <small>HS_1D_TOTAL</small>           | mg/kg | 0.1 | MCERTS | < 0.1 |
| TPH (C10 - C12) <small>EH_CU_1D_TOTAL</small>       | mg/kg | 2   | MCERTS | < 2.0 |
| TPH (C12 - C16) <small>EH_CU_1D_TOTAL</small>       | mg/kg | 4   | MCERTS | < 4.0 |
| TPH (C16 - C21) <small>EH_CU_1D_TOTAL</small>       | mg/kg | 1   | MCERTS | < 1.0 |
| TPH (C21 - C35) <small>EH_CU_1D_TOTAL</small>       | mg/kg | 1   | MCERTS | < 1.0 |
| TPH (C35 - C40) <small>EH_CU_1D_TOTAL</small>       | mg/kg | 10  | MCERTS | < 10  |
| TPH Total C5 - C40 <small>EH_CU+HS_1D_TOTAL</small> | mg/kg | 10  | MCERTS | < 10  |

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

**Analytical Report Number : 22-63323**

**Project / Site name: Belle Vue**

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

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

| Lab Sample Number | Sample Reference | Sample Number | Depth (m)     | Sample Description *                            |
|-------------------|------------------|---------------|---------------|-------------------------------------------------|
| 2304896           | TS101            | None Supplied | None Supplied | Brown clay and loam with gravel and vegetation. |
| 2304897           | TS102            | None Supplied | None Supplied | Brown clay and sand with gravel and vegetation. |
| 2304898           | TS103            | None Supplied | None Supplied | Brown clay and sand with gravel and vegetation. |
| 2304899           | SS101            | None Supplied | None Supplied | Brown clay and sand with gravel and vegetation. |
| 2304900           | SS102            | None Supplied | None Supplied | Brown clay and sand with gravel.                |
| 2304901           | SS103            | None Supplied | None Supplied | Brown clay and sand with gravel and vegetation. |

**Analytical Report Number : 22-63323**

**Project / Site name: Belle Vue**

**Water matrix abbreviations:**

**Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)**

| Analytical Test Name                               | Analytical Method Description                                                                                                                                          | Analytical Method Reference                                                                                     | Method number | Wet / Dry Analysis | Accreditation Status |
|----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|---------------|--------------------|----------------------|
| Sulphate, water soluble, in soil (16hr extraction) | Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).              | In house method.                                                                                                | L038-PL       | D                  | MCERTS               |
| Metals in soil by ICP-OES                          | Determination of metals in soil by aqua-regia digestion followed by ICP-OES.                                                                                           | In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.                            | L038-PL       | D                  | MCERTS               |
| Asbestos identification in soil                    | Asbestos Identification with the use of polarised light microscopy in conjunction with dispersion staining techniques.                                                 | In house method based on HSG 248                                                                                | A001-PL       | D                  | ISO 17025            |
| Moisture Content                                   | Moisture content, determined gravimetrically. (30 oC)                                                                                                                  | In house method.                                                                                                | L019-UK/PL    | W                  | NONE                 |
| Monohydric phenols in soil                         | Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry.                                                 | In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar) | L080-PL       | W                  | MCERTS               |
| Speciated EPA-16 PAHs in soil                      | Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.                 | In-house method based on USEPA 8270                                                                             | L064-PL       | D                  | MCERTS               |
| pH in soil (automated)                             | Determination of pH in soil by addition of water followed by automated electrometric measurement.                                                                      | In house method.                                                                                                | L099-PL       | D                  | MCERTS               |
| Sulphide in soil                                   | Determination of sulphide in soil by acidification and heating to liberate hydrogen sulphide, trapped in an alkaline solution then assayed by ion selective electrode. | In-house method                                                                                                 | L010-PL       | D                  | MCERTS               |
| Total sulphate (as SO <sub>4</sub> in soil)        | Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES.                                                                                | In house method.                                                                                                | L038-PL       | D                  | MCERTS               |
| Stones content of soil                             | Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.                                            | In-house method based on British Standard Methods and MCERTS requirements.                                      | L019-UK/PL    | D                  | NONE                 |
| Total Sulphur in soil                              | Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES.                                                   | In house method.                                                                                                | L038-PL       | D                  | MCERTS               |
| Total cyanide in soil                              | Determination of total cyanide by distillation followed by colorimetry.                                                                                                | In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar) | L080-PL       | W                  | MCERTS               |
| Total organic carbon (Automated) in soil           | Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.                                          | In house method.                                                                                                | L009-PL       | D                  | MCERTS               |
| TPH in (Soil)                                      | Determination of TPH bands by HS-GC-MS/GC-FID                                                                                                                          | In-house method, TPH with carbon banding and silica gel split/cleanup.                                          | L076-PL       | D                  | MCERTS               |
| Hexavalent chromium in soil                        | Determination of hexavalent chromium in soil by extraction in NaOH and addition of 1,5 diphenylcarbazine followed by colorimetry.                                      | In-house method                                                                                                 | L080-PL       | W                  | MCERTS               |
| Sulphate, water soluble, in soil (1hr extraction)  | Sulphate, water soluble, in soil (1hr extraction)                                                                                                                      | In-house method                                                                                                 | L038-PL       | D                  | MCERTS               |

Analytical Report Number : 22-63323

Project / Site name: Belle Vue

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)

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

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.

For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.

Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

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

## Information in Support of Analytical Results

### List of HWOL Acronyms and Operators

| Acronym | Descriptions                                                           |
|---------|------------------------------------------------------------------------|
| HS      | Headspace Analysis                                                     |
| MS      | Mass spectrometry                                                      |
| FID     | Flame Ionisation Detector                                              |
| GC      | Gas Chromatography                                                     |
| EH      | Extractable Hydrocarbons (i.e. everything extracted by the solvent(s)) |
| CU      | Clean-up - e.g. by Florisil®, silica gel                               |
| 1D      | GC - Single coil/column gas chromatography                             |
| 2D      | GC-GC - Double coil/column gas chromatography                          |
| Total   | Aliphatics & Aromatics                                                 |
| AL      | Aliphatics                                                             |
| AR      | Aromatics                                                              |
| #1      | EH_2D_Total but with humics mathematically subtracted                  |
| #2      | EH_2D_Total but with fatty acids mathematically subtracted             |
| _       | Operator - understore to separate acronyms (exception for +)           |
| +       | Operator to indicate cumulative e.g. EH+HS_Total or EH_CU+HS_Total     |

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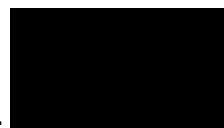
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## **Analytical Report Number : 22-81563-2A**

Replaces Analytical Report Number: 22-81563, issue no. 1  
Report format change.

|                             |                |                                                        |            |
|-----------------------------|----------------|--------------------------------------------------------|------------|
| <b>Project / Site name:</b> | Belle vue      | <b>Samples received on:</b>                            | 01/09/2022 |
| <b>Your job number:</b>     | 12 123         | <b>Samples instructed on/<br/>Analysis started on:</b> | 01/09/2022 |
| <b>Your order number:</b>   | 2776           | <b>Analysis completed by:</b>                          | 09/09/2022 |
| <b>Report Issue Number:</b> | 2              | <b>Report issued on:</b>                               | 27/01/2023 |
| <b>Samples Analysed:</b>    | 6 soil samples |                                                        |            |

**Signed:**



Adam Fenwick  
Technical Reviewer  
**For & on behalf of i2 Analytical Ltd.**

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

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

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

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

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

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

Analytical Report Number: 22-81563  
Project / Site name: Belle vue  
Your Order No: 2776

| Lab Sample Number                       |       |                    |                      | 2410085       | 2410086       | 2410087       | 2410088       | 2410089       |
|-----------------------------------------|-------|--------------------|----------------------|---------------|---------------|---------------|---------------|---------------|
| Sample Reference                        |       |                    |                      | TS101         | TS102         | TS103         | TS104         | TS105         |
| Sample Number                           |       |                    |                      | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Depth (m)                               |       |                    |                      | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Date Sampled                            |       |                    |                      | 01/09/2022    | 01/09/2022    | 01/09/2022    | 01/09/2022    | 01/09/2022    |
| Time Taken                              |       |                    |                      | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Analytical Parameter<br>(Soil Analysis) | Units | Limit of detection | Accreditation Status |               |               |               |               |               |
| Stone Content                           | %     | 0.1                | NONE                 | < 0.1         | < 0.1         | < 0.1         | < 0.1         | < 0.1         |
| Moisture Content                        | %     | 0.01               | NONE                 | 15            | 20            | 21            | 18            | 16            |
| Total mass of sample received           | kg    | 0.001              | NONE                 | 0.3           | 0.3           | 0.3           | 0.3           | 0.3           |

|                     |      |     |           |              |              |              |              |              |
|---------------------|------|-----|-----------|--------------|--------------|--------------|--------------|--------------|
| Asbestos in Soil    | Type | N/A | ISO 17025 | Not-detected | Not-detected | Not-detected | Not-detected | Not-detected |
| Asbestos Analyst ID | N/A  | N/A | N/A       | LFT          | LFT          | LFT          | LFT          | LFT          |

#### General Inorganics

|                                                                  |          |         |        |       |       |       |       |       |
|------------------------------------------------------------------|----------|---------|--------|-------|-------|-------|-------|-------|
| pH - Automated                                                   | pH Units | N/A     | MCERTS | 7.5   | 7.5   | 7     | 6.9   | 7     |
| Total Cyanide                                                    | mg/kg    | 1       | MCERTS | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| Total Sulphate as SO <sub>4</sub>                                | mg/kg    | 50      | MCERTS | 880   | 980   | 800   | 910   | 940   |
| Water Soluble SO <sub>4</sub> (2:1 Leach. Equiv.) 1hr extraction | g/l      | 0.00125 | MCERTS | 0.042 | 0.044 | 0.037 | 0.027 | 0.077 |
| Sulphide                                                         | mg/kg    | 1       | MCERTS | 2.6   | 2.7   | 2.2   | 4.6   | 3.3   |
| Total Sulphur                                                    | mg/kg    | 50      | MCERTS | 720   | 470   | 470   | 420   | 460   |

#### Total Phenols

|                            |       |   |        |       |       |       |       |       |
|----------------------------|-------|---|--------|-------|-------|-------|-------|-------|
| Total Phenols (monohydric) | mg/kg | 1 | MCERTS | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
|----------------------------|-------|---|--------|-------|-------|-------|-------|-------|

#### Speciated PAHs

|                        |       |      |        |        |        |        |        |        |
|------------------------|-------|------|--------|--------|--------|--------|--------|--------|
| Naphthalene            | mg/kg | 0.05 | MCERTS | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Acenaphthylene         | mg/kg | 0.05 | MCERTS | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Acenaphthene           | mg/kg | 0.05 | MCERTS | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Fluorene               | mg/kg | 0.05 | MCERTS | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Phenanthrene           | mg/kg | 0.05 | MCERTS | 0.21   | 0.39   | 0.21   | 0.34   | 0.35   |
| Anthracene             | mg/kg | 0.05 | MCERTS | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Fluoranthene           | mg/kg | 0.05 | MCERTS | 0.38   | 0.63   | 0.38   | 0.54   | 0.69   |
| Pyrene                 | mg/kg | 0.05 | MCERTS | 0.38   | 0.61   | 0.38   | 0.51   | 0.7    |
| Benzo(a)anthracene     | mg/kg | 0.05 | MCERTS | 0.38   | 0.51   | 0.28   | 0.3    | 0.39   |
| Chrysene               | mg/kg | 0.05 | MCERTS | 0.28   | 0.39   | 0.31   | 0.41   | 0.5    |
| Benzo(b)fluoranthene   | mg/kg | 0.05 | MCERTS | 0.41   | 0.5    | 0.4    | 0.33   | 0.42   |
| Benzo(k)fluoranthene   | mg/kg | 0.05 | MCERTS | 0.14   | 0.25   | 0.14   | 0.22   | 0.22   |
| Benzo(a)pyrene         | mg/kg | 0.05 | MCERTS | 0.33   | 0.46   | 0.32   | 0.36   | 0.45   |
| Indeno(1,2,3-cd)pyrene | mg/kg | 0.05 | MCERTS | < 0.05 | 0.27   | < 0.05 | < 0.05 | 0.22   |
| Dibenz(a,h)anthracene  | mg/kg | 0.05 | MCERTS | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Benzo(ghi)perylene     | mg/kg | 0.05 | MCERTS | < 0.05 | 0.36   | < 0.05 | < 0.05 | 0.29   |

#### Total PAH

|                             |       |     |        |      |      |      |      |      |
|-----------------------------|-------|-----|--------|------|------|------|------|------|
| Speciated Total EPA-16 PAHs | mg/kg | 0.8 | MCERTS | 2.51 | 4.37 | 2.42 | 3.01 | 4.23 |
|-----------------------------|-------|-----|--------|------|------|------|------|------|

#### Heavy Metals / Metalloids

|                                   |       |     |        |       |       |       |       |       |
|-----------------------------------|-------|-----|--------|-------|-------|-------|-------|-------|
| Arsenic (aqua regia extractable)  | mg/kg | 1   | MCERTS | 20    | 16    | 13    | 15    | 15    |
| Cadmium (aqua regia extractable)  | mg/kg | 0.2 | MCERTS | < 0.2 | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Chromium (hexavalent)             | mg/kg | 1.8 | MCERTS | U/S   | U/S   | U/S   | U/S   | U/S   |
| Chromium (aqua regia extractable) | mg/kg | 1   | MCERTS | 18    | 12    | 11    | 11    | 13    |
| Copper (aqua regia extractable)   | mg/kg | 1   | MCERTS | 61    | 46    | 38    | 45    | 45    |
| Lead (aqua regia extractable)     | mg/kg | 1   | MCERTS | 91    | 66    | 54    | 63    | 70    |
| Mercury (aqua regia extractable)  | mg/kg | 0.3 | MCERTS | < 0.3 | < 0.3 | < 0.3 | < 0.3 | < 0.3 |
| Nickel (aqua regia extractable)   | mg/kg | 1   | MCERTS | 20    | 13    | 13    | 12    | 14    |
| Selenium (aqua regia extractable) | mg/kg | 1   | MCERTS | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| Zinc (aqua regia extractable)     | mg/kg | 1   | MCERTS | 84    | 60    | 51    | 59    | 110   |

#### Petroleum Hydrocarbons

Analytical Report Number: 22-81563  
 Project / Site name: Belle vue  
 Your Order No: 2776

| Lab Sample Number                                   |       |                    |                         | 2410085       | 2410086       | 2410087       | 2410088       | 2410089       |
|-----------------------------------------------------|-------|--------------------|-------------------------|---------------|---------------|---------------|---------------|---------------|
| Sample Reference                                    |       |                    |                         | TS101         | TS102         | TS103         | TS104         | TS105         |
| Sample Number                                       |       |                    |                         | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Depth (m)                                           |       |                    |                         | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Date Sampled                                        |       |                    |                         | 01/09/2022    | 01/09/2022    | 01/09/2022    | 01/09/2022    | 01/09/2022    |
| Time Taken                                          |       |                    |                         | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Analytical Parameter<br>(Soil Analysis)             | Units | Limit of detection | Accreditation<br>Status |               |               |               |               |               |
| TPH (C5 - C6) <small>HS_ID_TOTAL</small>            | mg/kg | 1                  | NONE                    | < 1.0         | < 1.0         | < 1.0         | < 1.0         | < 1.0         |
| TPH (C6 - C8) <small>HS_ID_TOTAL</small>            | mg/kg | 0.1                | MCERTS                  | < 0.1         | < 0.1         | < 0.1         | < 0.1         | < 0.1         |
| TPH (C8 - C10) <small>HS_ID_TOTAL</small>           | mg/kg | 0.1                | MCERTS                  | < 0.1         | < 0.1         | < 0.1         | < 0.1         | < 0.1         |
| TPH (C10 - C12) <small>EH_CU_ID_TOTAL</small>       | mg/kg | 2                  | MCERTS                  | < 2.0         | < 2.0         | < 2.0         | < 2.0         | < 2.0         |
| TPH (C12 - C16) <small>EH_CU_ID_TOTAL</small>       | mg/kg | 4                  | MCERTS                  | < 4.0         | < 4.0         | < 4.0         | < 4.0         | < 4.0         |
| TPH (C16 - C21) <small>EH_CU_ID_TOTAL</small>       | mg/kg | 1                  | MCERTS                  | 3.9           | 7.7           | < 1.0         | < 1.0         | < 1.0         |
| TPH (C21 - C35) <small>EH_CU_ID_TOTAL</small>       | mg/kg | 1                  | MCERTS                  | 7.1           | 13            | < 1.0         | < 1.0         | < 1.0         |
| TPH (C35 - C40) <small>EH_CU_ID_TOTAL</small>       | mg/kg | 10                 | MCERTS                  | < 10          | < 10          | < 10          | < 10          | < 10          |
| TPH Total C5 - C40 <small>EH_CU+HS_ID_TOTAL</small> | mg/kg | 10                 | MCERTS                  | 11            | 20            | < 10          | < 10          | < 10          |

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 22-81563  
Project / Site name: Belle vue  
Your Order No: 2776

| Lab Sample Number                       |       |                    |                         | 2410090       |
|-----------------------------------------|-------|--------------------|-------------------------|---------------|
| Sample Reference                        |       |                    |                         | TS106         |
| Sample Number                           |       |                    |                         | None Supplied |
| Depth (m)                               |       |                    |                         | None Supplied |
| Date Sampled                            |       |                    |                         | 01/09/2022    |
| Time Taken                              |       |                    |                         | None Supplied |
| Analytical Parameter<br>(Soil Analysis) | Units | Limit of detection | Accreditation<br>Status |               |
| Stone Content                           | %     | 0.1                | NONE                    | < 0.1         |
| Moisture Content                        | %     | 0.01               | NONE                    | 17            |
| Total mass of sample received           | kg    | 0.001              | NONE                    | 0.3           |

|                     |      |     |           |              |
|---------------------|------|-----|-----------|--------------|
| Asbestos in Soil    | Type | N/A | ISO 17025 | Not-detected |
| Asbestos Analyst ID | N/A  | N/A | N/A       | LFT          |

#### General Inorganics

|                                                                  |          |         |        |       |
|------------------------------------------------------------------|----------|---------|--------|-------|
| pH - Automated                                                   | pH Units | N/A     | MCERTS | 6.9   |
| Total Cyanide                                                    | mg/kg    | 1       | MCERTS | < 1.0 |
| Total Sulphate as SO <sub>4</sub>                                | mg/kg    | 50      | MCERTS | 570   |
| Water Soluble SO <sub>4</sub> (2:1 Leach. Equiv.) 1hr extraction | g/l      | 0.00125 | MCERTS | 0.026 |
| Sulphide                                                         | mg/kg    | 1       | MCERTS | 1.4   |
| Total Sulphur                                                    | mg/kg    | 50      | MCERTS | 440   |

#### Total Phenols

|                            |       |   |        |       |
|----------------------------|-------|---|--------|-------|
| Total Phenols (monohydric) | mg/kg | 1 | MCERTS | < 1.0 |
|----------------------------|-------|---|--------|-------|

#### Speciated PAHs

|                        |       |      |        |        |
|------------------------|-------|------|--------|--------|
| Naphthalene            | mg/kg | 0.05 | MCERTS | < 0.05 |
| Acenaphthylene         | mg/kg | 0.05 | MCERTS | < 0.05 |
| Acenaphthene           | mg/kg | 0.05 | MCERTS | < 0.05 |
| Fluorene               | mg/kg | 0.05 | MCERTS | < 0.05 |
| Phenanthrene           | mg/kg | 0.05 | MCERTS | 0.23   |
| Anthracene             | mg/kg | 0.05 | MCERTS | < 0.05 |
| Fluoranthene           | mg/kg | 0.05 | MCERTS | 0.46   |
| Pyrene                 | mg/kg | 0.05 | MCERTS | 0.46   |
| Benzo(a)anthracene     | mg/kg | 0.05 | MCERTS | 0.27   |
| Chrysene               | mg/kg | 0.05 | MCERTS | 0.35   |
| Benzo(b)fluoranthene   | mg/kg | 0.05 | MCERTS | 0.43   |
| Benzo(k)fluoranthene   | mg/kg | 0.05 | MCERTS | 0.11   |
| Benzo(a)pyrene         | mg/kg | 0.05 | MCERTS | 0.35   |
| Indeno(1,2,3-cd)pyrene | mg/kg | 0.05 | MCERTS | < 0.05 |
| Dibenz(a,h)anthracene  | mg/kg | 0.05 | MCERTS | < 0.05 |
| Benzo(ghi)perylene     | mg/kg | 0.05 | MCERTS | < 0.05 |

#### Total PAH

|                             |       |     |        |      |
|-----------------------------|-------|-----|--------|------|
| Speciated Total EPA-16 PAHs | mg/kg | 0.8 | MCERTS | 2.66 |
|-----------------------------|-------|-----|--------|------|

#### Heavy Metals / Metalloids

|                                   |       |     |        |       |
|-----------------------------------|-------|-----|--------|-------|
| Arsenic (aqua regia extractable)  | mg/kg | 1   | MCERTS | 14    |
| Cadmium (aqua regia extractable)  | mg/kg | 0.2 | MCERTS | < 0.2 |
| Chromium (hexavalent)             | mg/kg | 1.8 | MCERTS | U/S   |
| Chromium (aqua regia extractable) | mg/kg | 1   | MCERTS | 13    |
| Copper (aqua regia extractable)   | mg/kg | 1   | MCERTS | 45    |
| Lead (aqua regia extractable)     | mg/kg | 1   | MCERTS | 62    |
| Mercury (aqua regia extractable)  | mg/kg | 0.3 | MCERTS | < 0.3 |
| Nickel (aqua regia extractable)   | mg/kg | 1   | MCERTS | 14    |
| Selenium (aqua regia extractable) | mg/kg | 1   | MCERTS | < 1.0 |
| Zinc (aqua regia extractable)     | mg/kg | 1   | MCERTS | 55    |

#### Petroleum Hydrocarbons

Analytical Report Number: 22-81563  
 Project / Site name: Belle vue  
 Your Order No: 2776

| Lab Sample Number                                   |       |                    |                         | 2410090       |
|-----------------------------------------------------|-------|--------------------|-------------------------|---------------|
| Sample Reference                                    |       |                    |                         | TS106         |
| Sample Number                                       |       |                    |                         | None Supplied |
| Depth (m)                                           |       |                    |                         | None Supplied |
| Date Sampled                                        |       |                    |                         | 01/09/2022    |
| Time Taken                                          |       |                    |                         | None Supplied |
| Analytical Parameter<br>(Soil Analysis)             | Units | Limit of detection | Accreditation<br>Status |               |
| TPH (C5 - C6) <small>HS_ID_TOTAL</small>            | mg/kg | 1                  | NONE                    | < 1.0         |
| TPH (C6 - C8) <small>HS_ID_TOTAL</small>            | mg/kg | 0.1                | MCERTS                  | < 0.1         |
| TPH (C8 - C10) <small>HS_ID_TOTAL</small>           | mg/kg | 0.1                | MCERTS                  | < 0.1         |
| TPH (C10 - C12) <small>EH_CU_ID_TOTAL</small>       | mg/kg | 2                  | MCERTS                  | < 2.0         |
| TPH (C12 - C16) <small>EH_CU_ID_TOTAL</small>       | mg/kg | 4                  | MCERTS                  | < 4.0         |
| TPH (C16 - C21) <small>EH_CU_ID_TOTAL</small>       | mg/kg | 1                  | MCERTS                  | < 1.0         |
| TPH (C21 - C35) <small>EH_CU_ID_TOTAL</small>       | mg/kg | 1                  | MCERTS                  | < 1.0         |
| TPH (C35 - C40) <small>EH_CU_ID_TOTAL</small>       | mg/kg | 10                 | MCERTS                  | < 10          |
| TPH Total C5 - C40 <small>EH_CU+HS_ID_TOTAL</small> | mg/kg | 10                 | MCERTS                  | < 10          |

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

**Analytical Report Number : 22-81563**

**Project / Site name: Belle vue**

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

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

| Lab Sample Number | Sample Reference | Sample Number | Depth (m)     | Sample Description *                            |
|-------------------|------------------|---------------|---------------|-------------------------------------------------|
| 2410085           | TS101            | None Supplied | None Supplied | Brown loam with gravel and vegetation.          |
| 2410086           | TS102            | None Supplied | None Supplied | Brown loam with gravel and vegetation.          |
| 2410087           | TS103            | None Supplied | None Supplied | Brown loam with gravel and vegetation.          |
| 2410088           | TS104            | None Supplied | None Supplied | Brown loam and sand with gravel and vegetation. |
| 2410089           | TS105            | None Supplied | None Supplied | Brown loam and sand with gravel and vegetation. |
| 2410090           | TS106            | None Supplied | None Supplied | Brown loam and sand with gravel and vegetation. |

**Analytical Report Number : 22-81563**

**Project / Site name: Belle vue**

**Water matrix abbreviations:**

**Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)**

| Analytical Test Name                               | Analytical Method Description                                                                                                                                          | Analytical Method Reference                                                                                     | Method number | Wet / Dry Analysis | Accreditation Status |
|----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|---------------|--------------------|----------------------|
| Metals in soil by ICP-OES                          | Determination of metals in soil by aqua-regia digestion followed by ICP-OES.                                                                                           | In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.                            | L038-PL       | D                  | MCERTS               |
| Sulphate, water soluble, in soil (16hr extraction) | Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).              | In house method.                                                                                                | L038-PL       | D                  | MCERTS               |
| Asbestos identification in soil                    | Asbestos Identification with the use of polarised light microscopy in conjunction with dispersion staining techniques.                                                 | In house method based on HSG 248                                                                                | A001-PL       | D                  | ISO 17025            |
| Moisture Content                                   | Moisture content, determined gravimetrically. (30 oC)                                                                                                                  | In house method.                                                                                                | L019-UK/PL    | W                  | NONE                 |
| Monohydric phenols in soil                         | Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry.                                                 | In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar) | L080-PL       | W                  | MCERTS               |
| Speciated EPA-16 PAHs in soil                      | Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.                 | In-house method based on USEPA 8270                                                                             | L064-PL       | D                  | MCERTS               |
| pH in soil (automated)                             | Determination of pH in soil by addition of water followed by automated electrometric measurement.                                                                      | In house method.                                                                                                | L099-PL       | D                  | MCERTS               |
| Sulphide in soil                                   | Determination of sulphide in soil by acidification and heating to liberate hydrogen sulphide, trapped in an alkaline solution then assayed by ion selective electrode. | In-house method                                                                                                 | L010-PL       | D                  | MCERTS               |
| Total sulphate (as SO4 in soil)                    | Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES.                                                                                | In house method.                                                                                                | L038-PL       | D                  | MCERTS               |
| Stones content of soil                             | Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.                                            | In-house method based on British Standard Methods and MCERTS requirements.                                      | L019-UK/PL    | D                  | NONE                 |
| Total Sulphur in soil                              | Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES.                                                   | In house method.                                                                                                | L038-PL       | D                  | MCERTS               |
| Total cyanide in soil                              | Determination of total cyanide by distillation followed by colorimetry.                                                                                                | In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar) | L080-PL       | W                  | MCERTS               |
| TPH in (Soil)                                      | Determination of TPH bands by HS-GC-MS/GC-FID                                                                                                                          | In-house method, TPH with carbon banding and silica gel split/cleanup.                                          | L076-PL       | D                  | MCERTS               |
| Hexavalent chromium in soil                        | Determination of hexavalent chromium in soil by extraction in NaOH and addition of 1,5 diphenylcarbazide followed by colorimetry.                                      | In-house method                                                                                                 | L080-PL       | W                  | MCERTS               |
| D.O. for Gravimetric Quant if Screen/ID positive   | Dependent option for Gravimetric Quant if Screen/ID positive scheduled.                                                                                                | In house asbestos methods A001 & A006.                                                                          | A006-PL       | D                  | NONE                 |
| Sulphate, water soluble, in soil (1hr extraction)  | Sulphate, water soluble, in soil (1hr extraction)                                                                                                                      | In-house method                                                                                                 | L038-PL       | D                  | MCERTS               |

Analytical Report Number : 22-81563

Project / Site name: Belle vue

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)

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

For method numbers ending in 'UK or A' analysis have been carried out in our laboratory in the United Kingdom (WATFORD).

For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).

For method numbers ending in 'PL or B' analysis have been carried out in our laboratory in Poland.

Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC

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

## Information in Support of Analytical Results

### List of HWOL Acronyms and Operators

| Acronym | Descriptions                                                           |
|---------|------------------------------------------------------------------------|
| HS      | Headspace Analysis                                                     |
| MS      | Mass spectrometry                                                      |
| FID     | Flame Ionisation Detector                                              |
| GC      | Gas Chromatography                                                     |
| EH      | Extractable Hydrocarbons (i.e. everything extracted by the solvent(s)) |
| CU      | Clean-up - e.g. by Florisil®, silica gel                               |
| 1D      | GC - Single coil/column gas chromatography                             |
| 2D      | GC-GC - Double coil/column gas chromatography                          |
| Total   | Aliphatics & Aromatics                                                 |
| AL      | Aliphatics                                                             |
| AR      | Aromatics                                                              |
| #1      | EH_2D_Total but with humics mathematically subtracted                  |
| #2      | EH_2D_Total but with fatty acids mathematically subtracted             |
| _       | Operator - underscore to separate acronyms (exception for +)           |
| +       | Operator to indicate cumulative e.g. EH+HS_Total or EH_CU+HS_Total     |