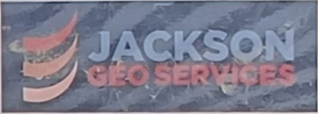


|                                                                                  |                   |                              |  |                    |                                                   |                  |
|----------------------------------------------------------------------------------|-------------------|------------------------------|--|--------------------|---------------------------------------------------|------------------|
|  |                   | EXPLORATORY HOLE PHOTOGRAPHS |  |                    |                                                   | Exploratory Hole |
|                                                                                  |                   |                              |  |                    |                                                   | WS02             |
| Project                                                                          | Newport Docks     | Easting                      |  | Equipment          | Insulated Handtools and concrete breaker/Dart 554 | Sheet 1 of 3     |
| Client                                                                           | Wardell Armstrong | Northing                     |  | Method             | IP/WLS                                            |                  |
| Project No                                                                       | G24139            | Level                        |  | Termination Reason | Terminated at scheduled depth                     |                  |

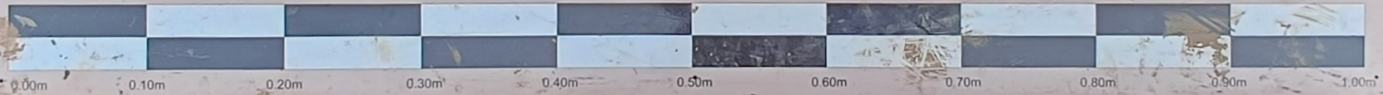
Jackson Geoservices  
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Parc Busnes Edwards, Llantrisant  
Pontyclun, CF72 8QZ

Email: team@jacksongeo.co.uk  
Telephone: 02920 099 769





|                         |                    |                   |          |
|-------------------------|--------------------|-------------------|----------|
| Project Name            | NEWPORT DOCKS      | Project Number    | G24139   |
| Client                  | WARDSELL ARMSTRONG | Date              | 04/12/24 |
| Exploratory Hole Number | WS02               | Box / Face Number | LINER    |
| Depth (m) from          | 1.20 to 2.00       | Engineer          | IR       |

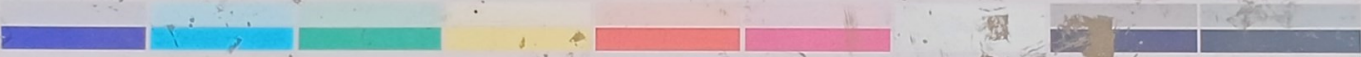


WS02 1.20 m to 2.00 m

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|                         |                    |                   |          |
|-------------------------|--------------------|-------------------|----------|
| Project Name            | NEWPORT DOCKS      | Project Number    | G24139   |
| Client                  | WARDSELL ARMSTRONG | Date              | 04/12/24 |
| Exploratory Hole Number | WS02               | Box / Face Number | LINER    |
| Depth (m) from          | 2.00 to 3.00       | Engineer          | IR       |



WS02 2.00 m to 3.00 m

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|                   |                   |                 |  |                           |                                                   |              |
|-------------------|-------------------|-----------------|--|---------------------------|---------------------------------------------------|--------------|
| <b>Project</b>    | Newport Docks     | <b>Easting</b>  |  | <b>Equipment</b>          | Insulated Handtools and concrete breaker/Dart 554 | Sheet 2 of 3 |
| <b>Client</b>     | Wardell Armstrong | <b>Northing</b> |  | <b>Method</b>             | IP/WLS                                            |              |
| <b>Project No</b> | G24139            | <b>Level</b>    |  | <b>Termination Reason</b> | Terminated at scheduled depth                     |              |

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|                         |                  |                   |          |
|-------------------------|------------------|-------------------|----------|
| Project Name            | NEWPORT DOCKS    | Project Number    | G24139   |
| Client                  | WARDLE ARMSTRONG | Date              | 04/12/24 |
| Exploratory Hole Number | WS02             | Box / Face Number | LINER    |
| Depth (m) from          | 3.00 to 4.00     | Engineer          | IR       |

0.00m 0.10m 0.20m 0.30m 0.40m 0.50m 0.60m 0.70m 0.80m 0.90m 1.00m

WS02 3.00 m to 4.00 m

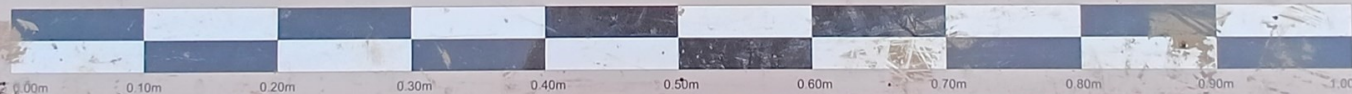
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|                         |                   |                   |          |
|-------------------------|-------------------|-------------------|----------|
| Project Name            | NEWPORT DOCKS     | Project Number    | Q24139   |
| Client                  | WARDELL ARMSTRONG | Date              | 04/12/24 |
| Exploratory Hole Number | WS02              | Box / Face Number | LINER    |
| Depth (m) from          | 4.00 to 5.00      | Engineer          | IR       |



WS02 4.00 m to 5.00 m

|                   |                   |                 |  |                           |                                                   |              |
|-------------------|-------------------|-----------------|--|---------------------------|---------------------------------------------------|--------------|
| <b>Project</b>    | Newport Docks     | <b>Easting</b>  |  | <b>Equipment</b>          | Insulated Handtools and concrete breaker/Dart 554 | Sheet 3 of 3 |
| <b>Client</b>     | Wardell Armstrong | <b>Northing</b> |  | <b>Method</b>             | IP/WLS                                            |              |
| <b>Project No</b> | G24139            | <b>Level</b>    |  | <b>Termination Reason</b> | Terminated at scheduled depth                     |              |

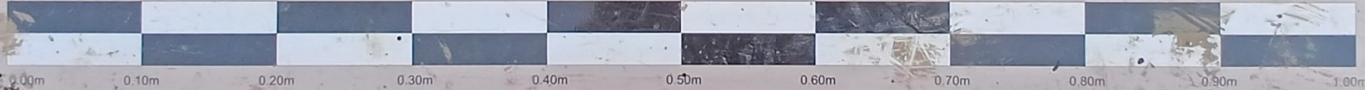
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|                         |                  |                   |          |
|-------------------------|------------------|-------------------|----------|
| Project Name            | NEWPORT DOCKS    | Project Number    | G24139   |
| Client                  | WARDLE ARMSTRONG | Date              | 04/12/24 |
| Exploratory Hole Number | WS02             | Box / Face Number | LINER    |
| Depth (m) from          | 5.00 to 6.00     | Engineer          | IR       |



WS02 5.00 m to 6.00 m

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|                   |                   |                 |  |                           |                                                   |              |
|-------------------|-------------------|-----------------|--|---------------------------|---------------------------------------------------|--------------|
| <b>Project</b>    | Newport Docks     | <b>Easting</b>  |  | <b>Equipment</b>          | Insulated Handtools and concrete breaker/Dart 554 | Sheet 1 of 1 |
| <b>Client</b>     | Wardell Armstrong | <b>Northing</b> |  | <b>Method</b>             | IP/WLS                                            |              |
| <b>Project No</b> | G24139            | <b>Level</b>    |  | <b>Termination Reason</b> | Terminated due to possible asbestos.              |              |

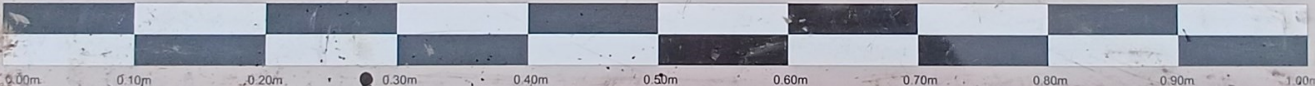
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Telephone: 02920 099 769





|                         |                   |                   |          |
|-------------------------|-------------------|-------------------|----------|
| Project Name            | NEWPORT DOCKS     | Project Number    | G24139   |
| Client                  | WARDELL ARMSTRONG | Date              | 04/12/24 |
| Exploratory Hole Number | WS04              | Box / Face Number | LINER    |
| Depth (m) from          | 1.20 to 2.00      | Engineer          | IR       |



WS04 1.20 m to 2.00 m

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|                         |                  |                   |          |
|-------------------------|------------------|-------------------|----------|
| Project Name            | NEWPORT DOCKS    | Project Number    | G24139   |
| Client                  | WARDLE ARMSTRONG | Date              | 04/12/24 |
| Exploratory Hole Number | WS04             | Box / Face Number | LINER    |
| Depth (m) from          | 2.00 to 3.00     | Engineer          | IR       |

0.00m 0.10m 0.20m 0.30m 0.40m 0.50m 0.60m 0.70m 0.80m 0.90m 1.00m

WS04 2.00 m to 3.00 m

## **Appendix D**

### **Geoenvironmental Testing Results**

## FINAL ANALYTICAL TEST REPORT

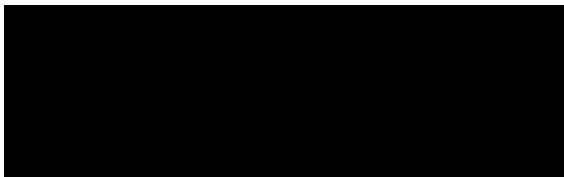
**Envirolab Job Number:** 24/12100  
**Issue Number:** 1

**Date:** 18 December, 2024

**Client:** Wardell Armstrong (Cardiff)  
Tudor House,  
16 Cathedral Road,  
Cardiff,  
CF11 9LJ

**Project Manager:** Zoe Devaney  
**Project Name:** Hill & Smith  
**Project Ref:** CA13057  
**Order No:** CA12169  
**Date Samples Received:** 06/12/24  
**Date Instructions Received:** 12/12/24  
**Date Analysis Completed:** 18/12/24

**Approved by:**



Richard Wong  
Client Manager

Envirolab Job Number: 24/12100

Client Project Name: Hill & Smith

Client Project Ref: CA13057

| Lab Sample ID                                       | 24/12100/1 | 24/12100/3 | 24/12100/5 | 24/12100/6 | 24/12100/7 | 24/12100/8 | 24/12100/9 | Units | Limit of Detection | Method ref  |
|-----------------------------------------------------|------------|------------|------------|------------|------------|------------|------------|-------|--------------------|-------------|
| Client Sample No                                    | ES1        | ES3        | ES2        | ES3        | ES4        | ES1        | ES2        |       |                    |             |
| Client Sample ID                                    | WS01       | WS01       | WS02       | WS02       | WS02       | WS04       | WS04       |       |                    |             |
| Depth to Top                                        | 0.30       | 3.70       | 0.24       | 2.25       | 4.00       | 0.30       | 2.00       |       |                    |             |
| Depth To Bottom                                     | 1.00       | 4.00       | 0.70       | 2.65       | 4.75       | 0.80       | 2.40       |       |                    |             |
| Date Sampled                                        | 04-Dec-24  | 04-Dec-24  | 04-Dec-24  | 04-Dec-24  | 04-Dec-24  | 04-Dec-24  | 04-Dec-24  |       |                    |             |
| Sample Type                                         | SOIL - ES  | SOIL - ES  | SOIL - ES  | SOIL - ES  | SOIL - ES  | SOIL - ES  | SOIL - ES  |       |                    |             |
| Sample Matrix Code                                  | 1AE        | 3A         | 1A         | 3A         | 4A         | 4AE        | 5A         |       |                    |             |
| % Moisture at <40C <sub>A</sub>                     | 8.3        | 25.5       | 10.7       | 24.2       | 18.9       | 12.6       | 23.2       | % w/w | 0.1                | A-T-044     |
| % Stones >10mm <sub>A</sub>                         | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       | % w/w | 0.1                | A-T-044     |
| pH <sub>D</sub> <sup>M#</sup>                       | 9.03       | 8.70       | 8.29       | 8.30       | 8.47       | 8.71       | 8.50       | pH    | 0.01               | A-T-031s    |
| Sulphate (water sol 2:1) <sub>D</sub> <sup>M#</sup> | 0.14       | 0.02       | 0.07       | 0.06       | 0.04       | 0.18       | 0.04       | g/l   | 0.01               | A-T-026s    |
| Sulphate (acid soluble) <sub>D</sub> <sup>M#</sup>  | 1100       | 670        | 470        | 870        | 440        | 1100       | 700        | mg/kg | 200                | A-T-028s    |
| Sulphur (total) <sub>D</sub>                        | 1040       | 561        | 634        | 1500       | 559        | 1580       | 695        | mg/kg | 50                 | A-T-024s    |
| Cyanide (total) <sub>A</sub> <sup>M#</sup>          | <1         | <1         | <1         | <1         | 2          | <1         | <1         | mg/kg | 1                  | A-T-042STCN |
| Phenols - Total by HPLC <sub>A</sub>                | <0.2       | <0.2       | <0.2       | <0.2       | <0.2       | <0.2       | <0.2       | mg/kg | 0.2                | A-T-050s    |
| Sulphide <sub>A</sub>                               | <25        | <5         | <5         | <5         | <5         | <5         | <5         | mg/kg | 5                  | A-T-043-s   |
| Organic Matter <sub>D</sub> <sup>M#</sup>           | 5.7        | 1.3        | 3.2        | 1.6        | 1.7        | 4.8        | 4.1        | % w/w | 0.1                | A-T-032s    |
| Arsenic <sub>D</sub> <sup>M#</sup>                  | 15         | 4          | 7          | 4          | 6          | 8          | 5          | mg/kg | 1                  | A-T-024s    |
| Boron (water soluble) <sub>D</sub> <sup>M#</sup>    | 6.5        | 2.3        | 1.4        | 3.2        | 1.5        | 3.1        | 4.4        | mg/kg | 1                  | A-T-027s    |
| Cadmium <sub>D</sub> <sup>M#</sup>                  | 2.7        | <0.5       | 0.8        | <0.5       | <0.5       | 0.9        | <0.5       | mg/kg | 0.5                | A-T-024s    |
| Copper <sub>D</sub> <sup>M#</sup>                   | 300        | 12         | 393        | 18         | 76         | 126        | 13         | mg/kg | 1                  | A-T-024s    |
| Chromium <sub>D</sub> <sup>M#</sup>                 | 53         | 23         | 29         | 27         | 19         | 95         | 19         | mg/kg | 1                  | A-T-024s    |
| Chromium (hexavalent) <sub>D</sub>                  | <1         | <1         | <1         | <1         | <1         | <1         | <1         | mg/kg | 1                  | A-T-040s    |
| Lead <sub>D</sub> <sup>M#</sup>                     | 227        | 12         | 101        | 15         | 20         | 141        | 22         | mg/kg | 1                  | A-T-024s    |
| Mercury <sub>D</sub>                                | 1.35       | <0.17      | <0.17      | <0.17      | <0.17      | <0.17      | <0.17      | mg/kg | 0.17               | A-T-024s    |
| Nickel <sub>D</sub> <sup>M#</sup>                   | 52         | 17         | 26         | 21         | 12         | 37         | 15         | mg/kg | 1                  | A-T-024s    |
| Selenium <sub>D</sub> <sup>M#</sup>                 | 2          | <1         | 1          | <1         | <1         | 2          | <1         | mg/kg | 1                  | A-T-024s    |
| Zinc <sub>D</sub> <sup>M#</sup>                     | 458        | 50         | 166        | 65         | 54         | 261        | 56         | mg/kg | 5                  | A-T-024s    |

Envirolab Job Number: 24/12100

Client Project Name: Hill & Smith

Client Project Ref: CA13057

| Lab Sample ID                                                           | 24/12100/1           | 24/12100/3 | 24/12100/5 | 24/12100/6 | 24/12100/7 | 24/12100/8 | 24/12100/9 | Units | Limit of Detection | Method ref |
|-------------------------------------------------------------------------|----------------------|------------|------------|------------|------------|------------|------------|-------|--------------------|------------|
| Client Sample No                                                        | ES1                  | ES3        | ES2        | ES3        | ES4        | ES1        | ES2        |       |                    |            |
| Client Sample ID                                                        | WS01                 | WS01       | WS02       | WS02       | WS02       | WS04       | WS04       |       |                    |            |
| Depth to Top                                                            | 0.30                 | 3.70       | 0.24       | 2.25       | 4.00       | 0.30       | 2.00       |       |                    |            |
| Depth To Bottom                                                         | 1.00                 | 4.00       | 0.70       | 2.65       | 4.75       | 0.80       | 2.40       |       |                    |            |
| Date Sampled                                                            | 04-Dec-24            | 04-Dec-24  | 04-Dec-24  | 04-Dec-24  | 04-Dec-24  | 04-Dec-24  | 04-Dec-24  |       |                    |            |
| Sample Type                                                             | SOIL - ES            | SOIL - ES  | SOIL - ES  | SOIL - ES  | SOIL - ES  | SOIL - ES  | SOIL - ES  |       |                    |            |
| Sample Matrix Code                                                      | 1AE                  | 3A         | 1A         | 3A         | 4A         | 4AE        | 5A         |       |                    |            |
| Asbestos in Soil (inc. matrix)                                          |                      |            |            |            |            |            |            |       |                    |            |
| Asbestos in soil <sub>D</sub> <sup>#</sup>                              | Amosite & Chrysotile | NAD        | NAD        | NAD        | NAD        | NAD        | NAD        |       |                    | A-T-045    |
| Asbestos Matrix (visual) <sub>D</sub>                                   | -                    | -          | -          | -          | -          | -          | -          |       |                    | A-T-045    |
| Asbestos Matrix (microscope) <sub>D</sub>                               | Loose Fibres         | -          | -          | -          | -          | -          | -          |       |                    | A-T-045    |
| Asbestos ACM - Suitable for Water Absorption Test? <sub>D</sub>         | N/A                  | N/A        | N/A        | N/A        | N/A        | N/A        | N/A        |       |                    | A-T-045    |
|                                                                         |                      |            |            |            |            |            |            |       |                    |            |
| Asbestos in Soil Quantification % (Hand Picking & Weighing)             |                      |            |            |            |            |            |            |       |                    |            |
| Asbestos in soil % composition (hand picking and weighing) <sub>D</sub> | 0.004                | -          | -          | -          | -          | -          | -          | % w/w | 0.001              | A-T-054    |

Envirolab Job Number: 24/12100

Client Project Name: Hill & Smith

Client Project Ref: CA13057

| Lab Sample ID                                    | 24/12100/1 | 24/12100/3 | 24/12100/5 | 24/12100/6 | 24/12100/7 | 24/12100/8 | 24/12100/9 | Units | Limit of Detection | Method ref |
|--------------------------------------------------|------------|------------|------------|------------|------------|------------|------------|-------|--------------------|------------|
| Client Sample No                                 | ES1        | ES3        | ES2        | ES3        | ES4        | ES1        | ES2        |       |                    |            |
| Client Sample ID                                 | WS01       | WS01       | WS02       | WS02       | WS02       | WS04       | WS04       |       |                    |            |
| Depth to Top                                     | 0.30       | 3.70       | 0.24       | 2.25       | 4.00       | 0.30       | 2.00       |       |                    |            |
| Depth To Bottom                                  | 1.00       | 4.00       | 0.70       | 2.65       | 4.75       | 0.80       | 2.40       |       |                    |            |
| Date Sampled                                     | 04-Dec-24  | 04-Dec-24  | 04-Dec-24  | 04-Dec-24  | 04-Dec-24  | 04-Dec-24  | 04-Dec-24  |       |                    |            |
| Sample Type                                      | SOIL - ES  | SOIL - ES  | SOIL - ES  | SOIL - ES  | SOIL - ES  | SOIL - ES  | SOIL - ES  |       |                    |            |
| Sample Matrix Code                               | 1AE        | 3A         | 1A         | 3A         | 4A         | 4AE        | 5A         |       |                    |            |
| PAH-16MS                                         |            |            |            |            |            |            |            |       |                    |            |
| Acenaphthene <sub>A</sub> <sup>M#</sup>          | 0.05       | <0.01      | 0.02       | <0.01      | <0.01      | 0.07       | <0.01      | mg/kg | 0.01               | A-T-019s   |
| Acenaphthylene <sub>A</sub> <sup>M#</sup>        | <0.01      | <0.01      | <0.01      | <0.01      | <0.01      | <0.01      | <0.01      | mg/kg | 0.01               | A-T-019s   |
| Anthracene <sub>A</sub> <sup>M#</sup>            | 0.04       | <0.02      | 0.03       | <0.02      | <0.02      | 0.07       | <0.02      | mg/kg | 0.02               | A-T-019s   |
| Benzo(a)anthracene <sub>A</sub> <sup>M#</sup>    | 0.15       | <0.04      | 0.07       | <0.04      | <0.04      | 0.24       | <0.04      | mg/kg | 0.04               | A-T-019s   |
| Benzo(a)pyrene <sub>A</sub> <sup>M#</sup>        | 0.15       | <0.04      | 0.08       | <0.04      | <0.04      | 0.19       | <0.04      | mg/kg | 0.04               | A-T-019s   |
| Benzo(b)fluoranthene <sub>A</sub> <sup>M#</sup>  | 0.23       | <0.05      | 0.10       | <0.05      | <0.05      | 0.26       | <0.05      | mg/kg | 0.05               | A-T-019s   |
| Benzo(ghi)perylene <sub>A</sub> <sup>M#</sup>    | 0.12       | <0.05      | <0.05      | <0.05      | <0.05      | 0.09       | <0.05      | mg/kg | 0.05               | A-T-019s   |
| Benzo(k)fluoranthene <sub>A</sub> <sup>M#</sup>  | 0.08       | <0.07      | <0.07      | <0.07      | <0.07      | 0.09       | <0.07      | mg/kg | 0.07               | A-T-019s   |
| Chrysene <sub>A</sub> <sup>M#</sup>              | 0.25       | <0.06      | 0.11       | <0.06      | <0.06      | 0.30       | <0.06      | mg/kg | 0.06               | A-T-019s   |
| Dibenzo(ah)anthracene <sub>A</sub> <sup>M#</sup> | <0.04      | <0.04      | <0.04      | <0.04      | <0.04      | <0.04      | <0.04      | mg/kg | 0.04               | A-T-019s   |
| Fluoranthene <sub>A</sub> <sup>M#</sup>          | 0.36       | <0.08      | 0.12       | <0.08      | <0.08      | 0.48       | <0.08      | mg/kg | 0.08               | A-T-019s   |
| Fluorene <sub>A</sub> <sup>M#</sup>              | 0.05       | <0.01      | 0.04       | <0.01      | <0.01      | 0.05       | <0.01      | mg/kg | 0.01               | A-T-019s   |
| Indeno(123-cd)pyrene <sub>A</sub> <sup>M#</sup>  | 0.11       | <0.03      | 0.06       | <0.03      | <0.03      | 0.08       | <0.03      | mg/kg | 0.03               | A-T-019s   |
| Naphthalene <sub>A</sub> <sup>M#</sup>           | 0.33       | <0.03      | 0.06       | <0.03      | <0.03      | 0.30       | <0.03      | mg/kg | 0.03               | A-T-019s   |
| Phenanthrene <sub>A</sub> <sup>M#</sup>          | 0.33       | <0.03      | 0.13       | <0.03      | <0.03      | 0.40       | 0.05       | mg/kg | 0.03               | A-T-019s   |
| Pyrene <sub>A</sub> <sup>M#</sup>                | 0.29       | <0.07      | 0.10       | <0.07      | <0.07      | 0.39       | <0.07      | mg/kg | 0.07               | A-T-019s   |
| Total PAH-16MS <sub>A</sub> <sup>M#</sup>        | 2.54       | <0.08      | 0.92       | <0.08      | <0.08      | 3.01       | <0.08      | mg/kg | 0.01               | A-T-019s   |

Envirolab Job Number: 24/12100

Client Project Name: Hill & Smith

Client Project Ref: CA13057

| Lab Sample ID                                      | 24/12100/1 | 24/12100/3 | 24/12100/5 | 24/12100/6 | 24/12100/7 | 24/12100/8 | 24/12100/9 | Units | Limit of Detection | Method ref |
|----------------------------------------------------|------------|------------|------------|------------|------------|------------|------------|-------|--------------------|------------|
| Client Sample No                                   | ES1        | ES3        | ES2        | ES3        | ES4        | ES1        | ES2        |       |                    |            |
| Client Sample ID                                   | WS01       | WS01       | WS02       | WS02       | WS02       | WS04       | WS04       |       |                    |            |
| Depth to Top                                       | 0.30       | 3.70       | 0.24       | 2.25       | 4.00       | 0.30       | 2.00       |       |                    |            |
| Depth To Bottom                                    | 1.00       | 4.00       | 0.70       | 2.65       | 4.75       | 0.80       | 2.40       |       |                    |            |
| Date Sampled                                       | 04-Dec-24  | 04-Dec-24  | 04-Dec-24  | 04-Dec-24  | 04-Dec-24  | 04-Dec-24  | 04-Dec-24  |       |                    |            |
| Sample Type                                        | SOIL - ES  | SOIL - ES  | SOIL - ES  | SOIL - ES  | SOIL - ES  | SOIL - ES  | SOIL - ES  |       |                    |            |
| Sample Matrix Code                                 | 1AE        | 3A         | 1A         | 3A         | 4A         | 4AE        | 5A         |       |                    |            |
| Speciated PCB-EC7                                  |            |            |            |            |            |            |            |       |                    |            |
| PCB BZ 28 <sub>A</sub> <sup>M#</sup>               | 0.005      | -          | 0.018      | <0.003     | -          | <0.003     | <0.003     | mg/kg | 0.003              | A-T-004s   |
| PCB BZ 52 <sub>A</sub> <sup>M#</sup>               | 0.039      | -          | 0.016      | <0.002     | -          | <0.002     | <0.002     | mg/kg | 0.002              | A-T-004s   |
| PCB BZ 101 <sub>A</sub> <sup>M#</sup>              | 0.069      | -          | 0.020      | <0.004     | -          | <0.004     | <0.004     | mg/kg | 0.004              | A-T-004s   |
| PCB BZ 118 <sub>A</sub> <sup>M#</sup>              | 0.043      | -          | 0.012      | <0.007     | -          | <0.007     | <0.007     | mg/kg | 0.007              | A-T-004s   |
| PCB BZ 138 <sub>A</sub> <sup>M#</sup>              | 0.058      | -          | 0.020      | <0.006     | -          | <0.006     | <0.006     | mg/kg | 0.006              | A-T-004s   |
| PCB BZ 153 <sub>A</sub> <sup>M#</sup>              | 0.045      | -          | 0.017      | <0.004     | -          | <0.004     | <0.004     | mg/kg | 0.004              | A-T-004s   |
| PCB BZ 180 <sub>A</sub> <sup>M#</sup>              | 0.009      | -          | 0.007      | <0.004     | -          | <0.004     | <0.004     | mg/kg | 0.004              | A-T-004s   |
| Total Speciated PCB-EC7 <sub>A</sub> <sup>M#</sup> | 0.268      | -          | 0.110      | <0.007     | -          | <0.007     | <0.007     | mg/kg | 0.003              | A-T-004s   |

Envirolab Job Number: 24/12100

Client Project Name: Hill & Smith

Client Project Ref: CA13057

| Lab Sample ID                                  | 24/12100/1 | 24/12100/3 | 24/12100/5 | 24/12100/6 | 24/12100/7 | 24/12100/8 | 24/12100/9 | Units | Limit of Detection | Method ref   |
|------------------------------------------------|------------|------------|------------|------------|------------|------------|------------|-------|--------------------|--------------|
| Client Sample No                               | ES1        | ES3        | ES2        | ES3        | ES4        | ES1        | ES2        |       |                    |              |
| Client Sample ID                               | WS01       | WS01       | WS02       | WS02       | WS02       | WS04       | WS04       |       |                    |              |
| Depth to Top                                   | 0.30       | 3.70       | 0.24       | 2.25       | 4.00       | 0.30       | 2.00       |       |                    |              |
| Depth To Bottom                                | 1.00       | 4.00       | 0.70       | 2.65       | 4.75       | 0.80       | 2.40       |       |                    |              |
| Date Sampled                                   | 04-Dec-24  | 04-Dec-24  | 04-Dec-24  | 04-Dec-24  | 04-Dec-24  | 04-Dec-24  | 04-Dec-24  |       |                    |              |
| Sample Type                                    | SOIL - ES  | SOIL - ES  | SOIL - ES  | SOIL - ES  | SOIL - ES  | SOIL - ES  | SOIL - ES  |       |                    |              |
| Sample Matrix Code                             | 1AE        | 3A         | 1A         | 3A         | 4A         | 4AE        | 5A         |       |                    |              |
| TPH CWG with Clean Up + GC Trace               |            |            |            |            |            |            |            |       |                    |              |
| Ali >C5-C6 <sub>A</sub>                        | <0.02      | <0.01      | <0.01      | <0.01      | <0.01      | <0.01      | <0.01      | mg/kg | 0.01               | A-T-022s     |
| Ali >C6-C8 <sub>A</sub>                        | <0.02      | <0.01      | <0.01      | <0.01      | <0.01      | <0.01      | <0.01      | mg/kg | 0.01               | A-T-022s     |
| Ali >C8-C10 <sub>A</sub>                       | <5         | <1         | <5         | <1         | <1         | <1         | <1         | mg/kg | 1                  | A-T-055s     |
| Ali >C10-C12 <sub>A</sub> <sup>M#</sup>        | <5         | <1         | 18         | <1         | 1          | 1          | <1         | mg/kg | 1                  | A-T-055s     |
| Ali >C12-C16 <sub>A</sub> <sup>M#</sup>        | 10         | <1         | 207        | <1         | 2          | 6          | <1         | mg/kg | 1                  | A-T-055s     |
| Ali >C16-C21 <sub>A</sub> <sup>M#</sup>        | 31         | <1         | 281        | <1         | 2          | 8          | <1         | mg/kg | 1                  | A-T-055s     |
| Ali >C21-C35 <sub>A</sub> <sup>M#</sup>        | 216        | 5          | 169        | 4          | 63         | 192        | 7          | mg/kg | 1                  | A-T-055s     |
| Total Aliphatics <sub>A</sub>                  | 256        | 5          | 675        | 4          | 69         | 207        | 7          | mg/kg | 1                  | Calc-As Recd |
| Aro >C5-C7 <sub>A</sub> <sup>#</sup>           | <0.01      | <0.01      | <0.01      | <0.01      | <0.01      | <0.01      | <0.01      | mg/kg | 0.01               | A-T-022s     |
| Aro >C7-C8 <sub>A</sub> <sup>#</sup>           | <0.01      | <0.01      | <0.01      | <0.01      | <0.01      | <0.01      | <0.01      | mg/kg | 0.01               | A-T-022s     |
| Aro >C8-C10 <sub>A</sub>                       | 9          | <1         | <5         | <1         | 1          | 3          | <1         | mg/kg | 1                  | A-T-055s     |
| Aro >C10-C12 <sub>A</sub>                      | 11         | 1          | 11         | <1         | 2          | 6          | <1         | mg/kg | 1                  | A-T-055s     |
| Aro >C12-C16 <sub>A</sub>                      | 33         | <1         | 109        | <1         | 4          | 13         | 1          | mg/kg | 1                  | A-T-055s     |
| Aro >C16-C21 <sub>A</sub> <sup>M#</sup>        | 31         | 1          | 131        | <1         | 4          | 15         | 3          | mg/kg | 1                  | A-T-055s     |
| Aro >C21-C35 <sub>A</sub> <sup>M#</sup>        | 23         | 4          | 47         | 3          | 22         | 24         | 5          | mg/kg | 1                  | A-T-055s     |
| Total Aromatics <sub>A</sub>                   | 106        | 7          | 298        | 3          | 33         | 61         | 9          | mg/kg | 1                  | Calc-As Recd |
| TPH (Ali & Aro >C5-C35) <sub>A</sub>           | 362        | 12         | 973        | 7          | 102        | 268        | 16         | mg/kg | 1                  | Calc-As Recd |
| EPH CWG GCxGC FID Chromatogram <sub>A</sub>    | Appended   | N/A        | Appended   | N/A        | Appended   | Appended   | N/A        |       |                    | A-T-055s     |
| BTEX - Benzene <sub>A</sub> <sup>#</sup>       | <0.01      | <0.01      | <0.01      | <0.01      | <0.01      | <0.01      | <0.01      | mg/kg | 0.01               | A-T-022s     |
| BTEX - Toluene <sub>A</sub> <sup>#</sup>       | <0.01      | <0.01      | <0.01      | <0.01      | <0.01      | <0.01      | <0.01      | mg/kg | 0.01               | A-T-022s     |
| BTEX - Ethyl Benzene <sub>A</sub> <sup>#</sup> | <0.01      | <0.01      | <0.01      | <0.01      | <0.01      | <0.01      | <0.01      | mg/kg | 0.01               | A-T-022s     |
| BTEX - m & p Xylene <sub>A</sub> <sup>#</sup>  | <0.01      | <0.01      | <0.01      | <0.01      | <0.01      | <0.01      | <0.01      | mg/kg | 0.01               | A-T-022s     |
| BTEX - o Xylene <sub>A</sub> <sup>#</sup>      | <0.01      | <0.01      | <0.01      | <0.01      | <0.01      | <0.01      | <0.01      | mg/kg | 0.01               | A-T-022s     |
| MTBE <sub>A</sub> <sup>#</sup>                 | <0.01      | <0.01      | <0.01      | <0.01      | <0.01      | <0.01      | <0.01      | mg/kg | 0.01               | A-T-022s     |

## Report Notes

### General

- This report shall not be reproduced, except in full, without written approval from Envirolab.
- The client Sample No, Client Sample ID, Depth to top, Depth to Bottom and Date Sampled are all provided by the client and can affect the validity of results.
- The results reported herein relate only to the material supplied to the laboratory.
- The residue of any samples contained within this report, and any received within the same delivery, will be disposed of **four weeks** after the initial scheduling. For samples tested for Asbestos we will retain a portion of the dried sample for a minimum of **six months** after the initial Asbestos testing is completed.
- Analytical results reflect the quality of the sample at the time of analysis only.
- Opinions and Interpretations expressed are outside our scope of accreditation.
- A deviating sample report is appended and will indicate if samples or tests have been found to be deviating. Any test results affected may not be an accurate record of the concentration at the time of sampling and, as a result, may be invalid.
- If a sample is outside of the calibration range or affected by interferences then it may need diluting. This will result in the limit of detection (LOD) being raised.
- Subcontracted Analysis: Please see the appended report for any deviations, current LODs and accreditation status of the test.

### Key

|                           |                                                                                                       |
|---------------------------|-------------------------------------------------------------------------------------------------------|
| Superscript “#”           | Accredited to ISO 17025                                                                               |
| Superscript “M”           | Accredited to MCertS                                                                                  |
| Superscript “U”           | Individual result not accredited                                                                      |
| None of the above symbols | Analysis unaccredited                                                                                 |
| Subscript “A”             | Analysis performed on as-received Sample                                                              |
| Subscript “D”             | Analysis performed on the dried sample, crushed to pass 2mm sieve.                                    |
| Subscript “D” on Asbestos | Analysis performed on a dried aliquot of sample provided.                                             |
| Subscript “A”             | Analysis has dependant options against results. Details appear in the comments of your Sample receipt |
| IS                        | Insufficient Sample for analysis                                                                      |
| US                        | Unsuitable Sample for analysis                                                                        |
| NDP                       | No Determination Possible                                                                             |
| NAD                       | No Asbestos Detected                                                                                  |
| Trace                     | Asbestos found not suitable for Gravimetric Quantification – not enough to accurately weigh.          |
| N/A                       | Not applicable                                                                                        |

### Asbestos

**Identification:** Asbestos in soil analysis is performed on a dried aliquot of the submitted sample and cannot guarantee to identify asbestos if only present in small numbers as discrete fibres/fragments in the original sample.

Stones etc. are not removed from the sample prior to analysis

“Trace Asbestos Identified” will be reported if there is not enough present to verify the type.

**Quantification:** Generally a 2 stage process including visual identification, hand picking and weighing, and fibre counting. Where ACMs are found a percentage asbestos is assigned to each with reference to ‘HSG264, Asbestos: The survey guide’ and the calculated asbestos content is expressed as a percentage of the dried soil sample aliquot used. If asbestos is identified as being present but is not in a form that is suitable for analysis by hand picking and weighing (normally if the asbestos is present as free fibres). “TRACE” will be reported as a quantification result.

**PLEASE INFORM THE LABORATORY IF YOU WOULD LIKE THE STAGE 3 SEDIMENTATION PROCESS CARRIED OUT. Note this will be subcontracted.**

### Assigned Matrix Codes

|   |           |   |                                             |   |                               |
|---|-----------|---|---------------------------------------------|---|-------------------------------|
| 1 | SAND      | 6 | CLAY/LOAM                                   | A | Contains Stones               |
| 2 | LOAM      | 7 | OTHER                                       | B | Contains Construction Rubble  |
| 3 | CLAY      | 8 | Asbestos Bulk (Only Asbestos ID accredited) | C | Contains visible hydrocarbons |
| 4 | LOAM/SAND | 9 | Incinerator Ash (some Metals accredited)    | D | Contains glass / metal        |
| 5 | SAND/CLAY |   |                                             | E | Contains roots / twigs        |

**Note: 7,8,9 matrices are not covered by our ISO 17025 or MCertS accreditation, unless stated above.**

### Soil Chemical Analysis:

All results are reported as dry weight (<40°C).

For samples with Matrix Codes 1 - 6 natural stones, brick and concrete fragments >10mm and any extraneous material (visible glass, metal or twigs) are removed and excluded from the sample prior to analysis and reported results corrected to a whole sample basis. This is reported as ‘% stones >10mm’.

For samples with Matrix Code 7 the whole sample is dried and crushed prior to analysis and this supersedes any “A” subscripts

All analysis is performed on the sample as received for soil samples which are positive for asbestos or the client has informed asbestos may be present and/or if they are from outside the European Union and this supersedes any “D” subscripts.

### TPH by method A-T-007:

For waters, free and visible oils are excluded from the sample used for analysis, so the reported result represents the dissolved phase only. Results “with Clean up” indicates samples cleaned up with Silica during extraction.

### EPH CWG (method A-T-055) from TPH CWG:

EPH CWG results have humics mathematically subtracted through instrument calculation.

Where these humic substances have been identified in any IDs from “TPH CWG with clean up” please note that the concentration is **NOT** included in the quantified results but present in the ID for information.

### Electrical Conductivity of water by method A-T-037:

Results greater than 12900µS/cm @ 25°C / 11550µS/cm @ 20°C fall outside the calibration range and as such are unaccredited.

Please contact your client manager if you require any further information.

## Envirolab Deviating Samples Report

Hattersley Science & Technology Park, Stockport Road, Hattersley, SK14 3QU  
Tel. 0161 368 4921 email. ask@envlab.co.uk

|                            |                                                                                |                                    |                 |
|----------------------------|--------------------------------------------------------------------------------|------------------------------------|-----------------|
| <b>Client:</b>             | Wardell Armstrong (Cardiff), Tudor House, 16 Cathedral Road, Cardiff, CF11 9LJ | <b>Project No:</b>                 | 24/12100        |
| <b>Project:</b>            | Hill & Smith                                                                   | <b>Date Received:</b>              | 12/12/2024 (am) |
| <b>Clients Project No:</b> | CA13057                                                                        | <b>Cool Box Temperatures (°C):</b> | 10.2 & 10.5     |

### NO DEVIATIONS IDENTIFIED

If, at any point before reaching the laboratory, the temperature of the samples has breached those set in published standards, e.g. BS-EN 5667-3, ISO 18400-102:2017, then the concentration of any affected analytes may differ from that at the time of sampling.

## Envirolab Analysis Dates

| Lab Sample ID          | 24/12100/1         | 24/12100/3         | 24/12100/5         | 24/12100/6         | 24/12100/7         | 24/12100/8         | 24/12100/9         |
|------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| Client Sample No       | ES1                | ES3                | ES2                | ES3                | ES4                | ES1                | ES2                |
| Client Sample ID/Depth | WS01<br>0.30-1.00m | WS01<br>3.70-4.00m | WS02<br>0.24-0.70m | WS02<br>2.25-2.65m | WS02<br>4.00-4.75m | WS04<br>0.30-0.80m | WS04<br>2.00-2.40m |
| Date Sampled           | 04/12/24           | 04/12/24           | 04/12/24           | 04/12/24           | 04/12/24           | 04/12/24           | 04/12/24           |
| A-T-004s               | 16/12/2024         |                    | 16/12/2024         | 16/12/2024         |                    | 16/12/2024         | 16/12/2024         |
| A-T-019s               | 17/12/2024         | 17/12/2024         | 17/12/2024         | 17/12/2024         | 17/12/2024         | 17/12/2024         | 17/12/2024         |
| A-T-022s               | 17/12/2024         | 17/12/2024         | 17/12/2024         | 17/12/2024         | 17/12/2024         | 17/12/2024         | 17/12/2024         |
| A-T-024s               | 16/12/2024         | 16/12/2024         | 16/12/2024         | 16/12/2024         | 16/12/2024         | 16/12/2024         | 17/12/2024         |
| A-T-026s               | 17/12/2024         | 17/12/2024         | 17/12/2024         | 17/12/2024         | 17/12/2024         | 17/12/2024         | 17/12/2024         |
| A-T-027s               | 17/12/2024         | 17/12/2024         | 17/12/2024         | 17/12/2024         | 17/12/2024         | 17/12/2024         | 17/12/2024         |
| A-T-028s               | 16/12/2024         | 16/12/2024         | 16/12/2024         | 16/12/2024         | 16/12/2024         | 16/12/2024         | 17/12/2024         |
| A-T-031s               | 18/12/2024         | 18/12/2024         | 18/12/2024         | 18/12/2024         | 18/12/2024         | 18/12/2024         | 18/12/2024         |
| A-T-032s               | 18/12/2024         | 16/12/2024         | 16/12/2024         | 16/12/2024         | 16/12/2024         | 16/12/2024         | 16/12/2024         |
| A-T-040s               | 17/12/2024         | 17/12/2024         | 17/12/2024         | 17/12/2024         | 17/12/2024         | 17/12/2024         | 17/12/2024         |
| A-T-042sTCN            | 16/12/2024         | 16/12/2024         | 16/12/2024         | 16/12/2024         | 16/12/2024         | 16/12/2024         | 16/12/2024         |
| A-T-043-s              | 13/12/2024         | 13/12/2024         | 13/12/2024         | 13/12/2024         | 13/12/2024         | 13/12/2024         | 13/12/2024         |
| A-T-044                | 16/12/2024         | 16/12/2024         | 16/12/2024         | 16/12/2024         | 16/12/2024         | 16/12/2024         | 16/12/2024         |
| A-T-045                | 13/12/2024         | 13/12/2024         | 13/12/2024         | 13/12/2024         | 13/12/2024         | 13/12/2024         | 13/12/2024         |
| A-T-050s               | 18/12/2024         | 18/12/2024         | 18/12/2024         | 18/12/2024         | 18/12/2024         | 18/12/2024         | 18/12/2024         |
| A-T-054                | 17/12/2024         |                    |                    |                    |                    |                    |                    |
| A-T-055s               | 17/12/2024         | 17/12/2024         | 17/12/2024         | 17/12/2024         | 17/12/2024         | 17/12/2024         | 17/12/2024         |
| Calc-As Recd           | 17/12/2024         | 17/12/2024         | 17/12/2024         | 17/12/2024         | 17/12/2024         | 17/12/2024         | 17/12/2024         |

The above dates are the analysis completion dates, please note that these are not necessarily the date that the analysis was weighed/extracted.

**End of Report**

## **Appendix E**

### **Geotechnical Testing Results**



# Laboratory Report



## Contract Number: 76346

Client Ref: **G24139**

Client PO:

Date Received: **16-12-2024**

Date Completed: **03-01-2025**

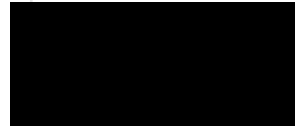
Report Date: **03-01-2025**

Client: **Jackson Drilling Holdings Ltd**

This report has been checked and approved by:

Contract Title: **Newport Docks**

For the attention of: **Adam Putt**



**Brendan Evans**  
Office Administrator

| Description                                                                             | Qty |
|-----------------------------------------------------------------------------------------|-----|
| <b>Moisture Content</b><br>BS 1377:1990 - Part 2 : 3.2 - * UKAS                         | 5   |
| <b>4 Point Liquid &amp; Plastic Limit</b><br>BS 1377:1990 - Part 2 : 4.3 & 5.3 - * UKAS | 4   |
| <b>Particle Size Distribution</b><br>BS EN ISO 17892-4 : 5.1 - * UKAS                   | 2   |

**Notes:** Observations and Interpretations are outside the UKAS Accreditation

\* - denotes test included in laboratory scope of accreditation

# - denotes test carried out by approved contractor

@ - denotes non accredited tests

This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This test report/certificate shall not be reproduced except in full, without the approval of GEO Site & Testing Services Ltd. Any opinions or interpretations stated - within this report/certificate are excluded from the laboratories UKAS accreditation.

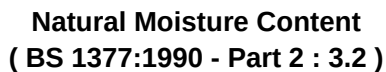
**Approved Signatories:**

Brendan Evans (Office Administrator) - Darren Bourne (Quality Senior Technician) - Paul Evans (Director)

Richard John (Quality/Technical Manager) - Shaun Jones (Laboratory manager) - Shaun Thomas (Site Manager)

Wayne Honey (HR & HSE Manager)









**PARTICLE SIZE DISTRIBUTION**  
**BS EN ISO 17892-4:2016**  
**Wet Sieve, Clause 5.2**

Contract Number **76346**

Borehole/Pit No. **WS01**

Project Name **Newport Docks**

Sample No. **1**

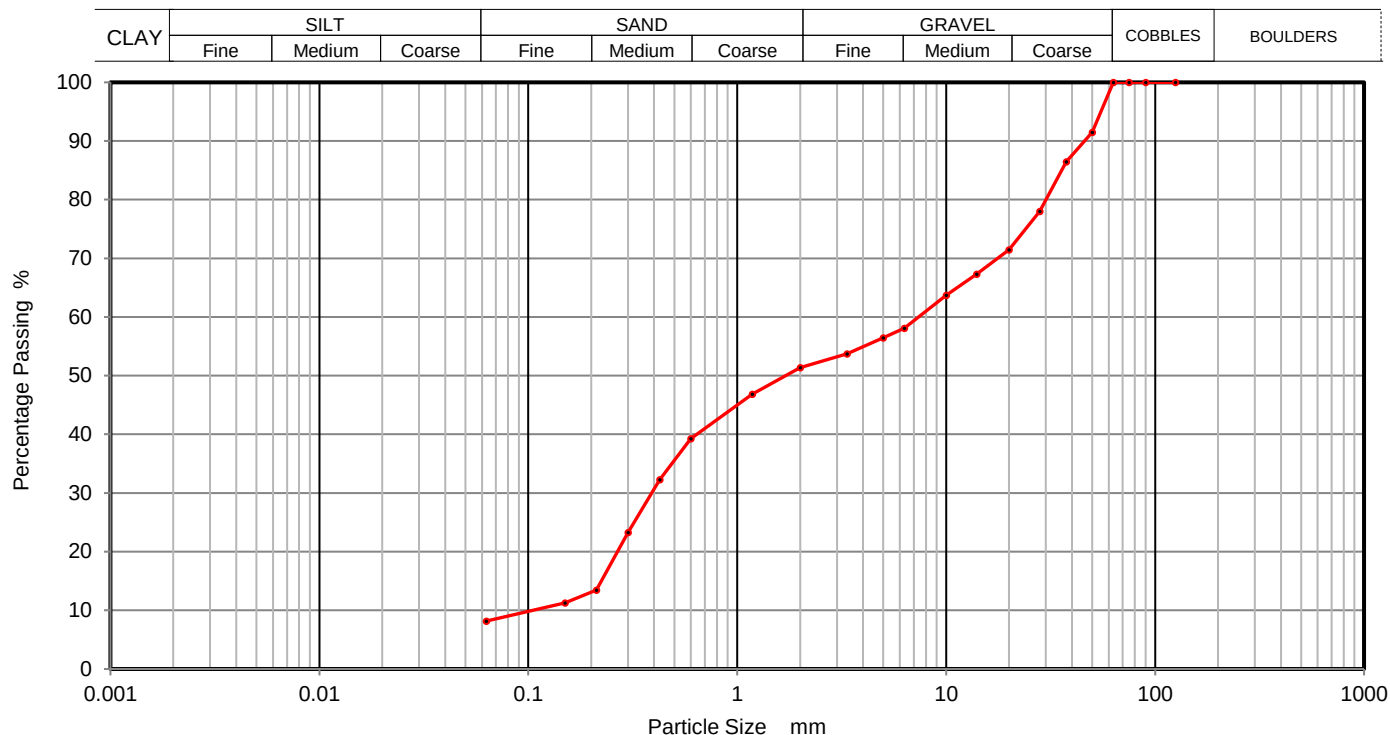
Sample Description **Black slightly silty/ clayey fine to coarse sandy fine to coarse GRAVEL**

Depth Top **0.30**

Depth Base **1.00**

Date Tested **19/12/2024**

Sample Type **B**



| Sieving             |           | Sedimentation       |           |
|---------------------|-----------|---------------------|-----------|
| Particle Size<br>mm | % Passing | Particle Size<br>mm | % Passing |
| 125                 | 100       |                     |           |
| 90                  | 100       |                     |           |
| 75                  | 100       |                     |           |
| 63                  | 100       |                     |           |
| 50                  | 91        |                     |           |
| 37.5                | 86        |                     |           |
| 28                  | 78        |                     |           |
| 20                  | 71        |                     |           |
| 14                  | 67        |                     |           |
| 10                  | 64        |                     |           |
| 6.3                 | 58        |                     |           |
| 5                   | 56        |                     |           |
| 3.35                | 54        |                     |           |
| 2                   | 51        |                     |           |
| 1.18                | 47        |                     |           |
| 0.63                | 39        |                     |           |
| 0.425               | 32        |                     |           |
| 0.30                | 23        |                     |           |
| 0.20                | 13        |                     |           |
| 0.15                | 11        |                     |           |
| 0.063               | 8         |                     |           |

| Sample Proportions | % dry mass |
|--------------------|------------|
| Cobbles            | 0          |
| Gravel             | 49         |
| Sand               | 43         |
| Silt and Clay      | 8          |
|                    |            |
|                    |            |

**Remarks**

Preparation and testing in accordance with BS17892 unless noted below

Operator

Cameron

**PARTICLE SIZE DISTRIBUTION**  
**BS EN ISO 17892-4:2016**  
**Wet Sieve, Clause 5.2**

Contract Number **76346**

Borehole/Pit No. **WS02**

Project Name **Newport Docks**

Sample No. **10**

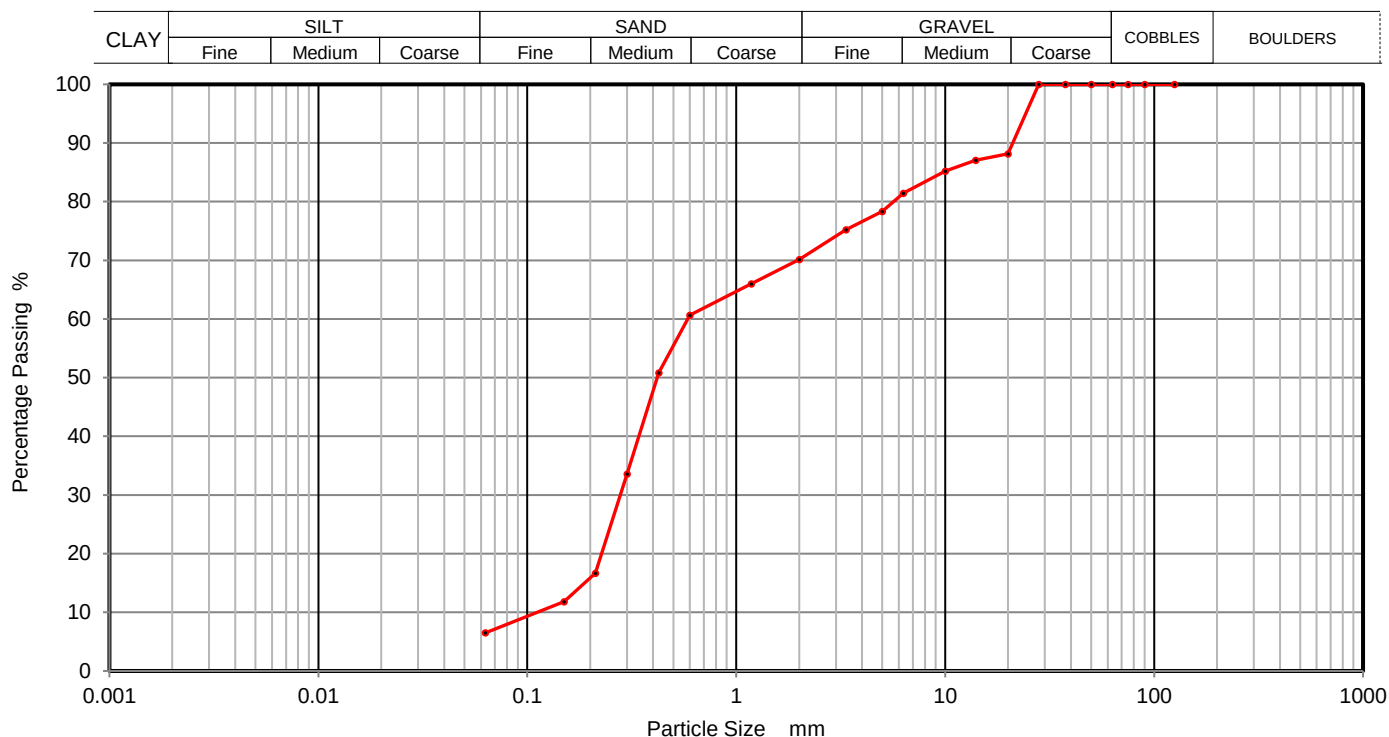
Sample Description **Brown slightly silty/ clayey fine to coarse gravelly fine to coarse SAND**

Depth Top **1.20**

Depth Base **1.65**

Date Tested **19/12/2024**

Sample Type **D**



| Sieving             |           | Sedimentation       |           |
|---------------------|-----------|---------------------|-----------|
| Particle Size<br>mm | % Passing | Particle Size<br>mm | % Passing |
| 125                 | 100       |                     |           |
| 90                  | 100       |                     |           |
| 75                  | 100       |                     |           |
| 63                  | 100       |                     |           |
| 50                  | 100       |                     |           |
| 37.5                | 100       |                     |           |
| 28                  | 100       |                     |           |
| 20                  | 88        |                     |           |
| 14                  | 87        |                     |           |
| 10                  | 85        |                     |           |
| 6.3                 | 81        |                     |           |
| 5                   | 78        |                     |           |
| 3.35                | 75        |                     |           |
| 2                   | 70        |                     |           |
| 1.18                | 66        |                     |           |
| 0.63                | 61        |                     |           |
| 0.425               | 51        |                     |           |
| 0.30                | 34        |                     |           |
| 0.20                | 17        |                     |           |
| 0.15                | 12        |                     |           |
| 0.063               | 6         |                     |           |

| Sample Proportions | % dry mass |
|--------------------|------------|
| Cobbles            | 0          |
| Gravel             | 30         |
| Sand               | 64         |
| Silt and Clay      | 6          |
|                    |            |
|                    |            |

**Remarks**

Preparation and testing in accordance with BS17892 unless noted below

Operator

Cameron

## **Appendix F**

### **Ground Gas and Groundwater Monitoring Results**

|            |                             |
|------------|-----------------------------|
| Job No:    | CA13057                     |
| Site Name: | Hill & Smith, Newport Docks |
| Client:    | ABP                         |

|           |            |    |       |
|-----------|------------|----|-------|
| Visit No: | 1          | of | 6     |
| Date:     | 11/12.2024 |    |       |
| Time:     | 09:00      | to | 11:00 |

|                   |             |
|-------------------|-------------|
| Operator:         | Zoe Devaney |
| Gas Analyser:     | GA5000      |
| Last Calibration: | 01/10/2024  |



|                      |       | Gas Concentrations |        |                       |        |                             |                               |               |        |                                    | Flow Data        |        |                                           | Volatiles                          | Well and Water Data |                              |                        | Additional Comments      |                                                                                      |
|----------------------|-------|--------------------|--------|-----------------------|--------|-----------------------------|-------------------------------|---------------|--------|------------------------------------|------------------|--------|-------------------------------------------|------------------------------------|---------------------|------------------------------|------------------------|--------------------------|--------------------------------------------------------------------------------------|
| Monitorin<br>g Point | Order | Methane (%v/v)     |        | Carbon dioxide (%v/v) |        | Carbon<br>monoxide<br>(ppm) | Hydrogen<br>sulphide<br>(ppm) | Oxygen (%v/v) |        | Time taken<br>for steady<br>(mins) | Flow rate (l/hr) |        | Differential<br>borehole<br>pressure (Pa) | Time taken<br>for steady<br>(mins) | PID peak<br>(ppm)   | Product<br>thickness<br>(mm) | Water level<br>(m bgl) | Depth of well<br>(m bgl) | Monitoring well specific items: state<br>of the borehole, nature of gas bung<br>etc. |
|                      |       | Peak               | Steady | Peak                  | Steady | Peak                        | Peak                          | Min           | Steady |                                    | Peak             | Steady |                                           |                                    |                     |                              |                        |                          |                                                                                      |
|                      |       |                    |        |                       |        |                             |                               |               |        |                                    |                  |        |                                           |                                    |                     |                              |                        |                          |                                                                                      |
| WS01                 | 1     | 5.10               | 4.80   | 0.70                  | 0.50   | 0                           | 0                             | 0.10          | 0.30   | 2.00                               | 0.0              | 0.0    |                                           | 2                                  |                     |                              | 1.56                   | 2.93                     | Install @ 1.00m - 3.00m                                                              |
| WS02                 | 1     | 0.80               | 0.10   | 3.70                  | 3.70   | 0                           | 0                             | 7.30          | 7.30   | 2.00                               | 0.0              | 0.0    |                                           | 2                                  |                     |                              | 1.46                   | 3.84                     | Install @ 1.00m - 4.00m                                                              |
| WS04                 | 1     | 3.70               | 3.60   | 0.20                  | 0.20   | 2                           | 0                             | 3.90          | 3.90   | 2.00                               | 0.0              | 0.0    |                                           | 2                                  |                     |                              | 1.43                   | 3.01                     | Install @ 1.00m - 3.00m                                                              |
|                      |       |                    |        |                       |        |                             |                               |               |        |                                    |                  |        |                                           |                                    |                     |                              |                        |                          |                                                                                      |
|                      |       |                    |        |                       |        |                             |                               |               |        |                                    |                  |        |                                           |                                    |                     |                              |                        |                          |                                                                                      |
|                      |       |                    |        |                       |        |                             |                               |               |        |                                    |                  |        |                                           |                                    |                     |                              |                        |                          |                                                                                      |
|                      |       |                    |        |                       |        |                             |                               |               |        |                                    |                  |        |                                           |                                    |                     |                              |                        |                          |                                                                                      |
|                      |       |                    |        |                       |        |                             |                               |               |        |                                    |                  |        |                                           |                                    |                     |                              |                        |                          |                                                                                      |
|                      |       |                    |        |                       |        |                             |                               |               |        |                                    |                  |        |                                           |                                    |                     |                              |                        |                          |                                                                                      |
|                      |       |                    |        |                       |        |                             |                               |               |        |                                    |                  |        |                                           |                                    |                     |                              |                        |                          |                                                                                      |
|                      |       |                    |        |                       |        |                             |                               |               |        |                                    |                  |        |                                           |                                    |                     |                              |                        |                          |                                                                                      |
|                      |       |                    |        |                       |        |                             |                               |               |        |                                    |                  |        |                                           |                                    |                     |                              |                        |                          |                                                                                      |
|                      |       |                    |        |                       |        |                             |                               |               |        |                                    |                  |        |                                           |                                    |                     |                              |                        |                          |                                                                                      |
|                      |       |                    |        |                       |        |                             |                               |               |        |                                    |                  |        |                                           |                                    |                     |                              |                        |                          |                                                                                      |
|                      |       |                    |        |                       |        |                             |                               |               |        |                                    |                  |        |                                           |                                    |                     |                              |                        |                          |                                                                                      |
|                      |       |                    |        |                       |        |                             |                               |               |        |                                    |                  |        |                                           |                                    |                     |                              |                        |                          |                                                                                      |
|                      |       |                    |        |                       |        |                             |                               |               |        |                                    |                  |        |                                           |                                    |                     |                              |                        |                          |                                                                                      |
|                      |       |                    |        |                       |        |                             |                               |               |        |                                    |                  |        |                                           |                                    |                     |                              |                        |                          |                                                                                      |
|                      |       |                    |        |                       |        |                             |                               |               |        |                                    |                  |        |                                           |                                    |                     |                              |                        |                          |                                                                                      |
|                      |       |                    |        |                       |        |                             |                               |               |        |                                    |                  |        |                                           |                                    |                     |                              |                        |                          |                                                                                      |
|                      |       |                    |        |                       |        |                             |                               |               |        |                                    |                  |        |                                           |                                    |                     |                              |                        |                          |                                                                                      |
|                      |       |                    |        |                       |        |                             |                               |               |        |                                    |                  |        |                                           |                                    |                     |                              |                        |                          |                                                                                      |
|                      |       |                    |        |                       |        |                             |                               |               |        |                                    |                  |        |                                           |                                    |                     |                              |                        |                          |                                                                                      |
|                      |       |                    |        |                       |        |                             |                               |               |        |                                    |                  |        |                                           |                                    |                     |                              |                        |                          |                                                                                      |
|                      |       |                    |        |                       |        |                             |                               |               |        |                                    |                  |        |                                           |                                    |                     |                              |                        |                          |                                                                                      |
|                      |       |                    |        |                       |        |                             |                               |               |        |                                    |                  |        |                                           |                                    |                     |                              |                        |                          |                                                                                      |
|                      |       |                    |        |                       |        |                             |                               |               |        |                                    |                  |        |                                           |                                    |                     |                              |                        |                          |                                                                                      |
|                      |       |                    |        |                       |        |                             |                               |               |        |                                    |                  |        |                                           |                                    |                     |                              |                        |                          |                                                                                      |
|                      |       |                    |        |                       |        |                             |                               |               |        |                                    |                  |        |                                           |                                    |                     |                              |                        |                          |                                                                                      |
|                      |       |                    |        |                       |        |                             |                               |               |        |                                    |                  |        |                                           |                                    |                     |                              |                        |                          |                                                                                      |
|                      |       |                    |        |                       |        |                             |                               |               |        |                                    |                  |        |                                           |                                    |                     |                              |                        |                          |                                                                                      |
|                      |       |                    |        |                       |        |                             |                               |               |        |                                    |                  |        |                                           |                                    |                     |                              |                        |                          |                                                                                      |
|                      |       |                    |        |                       |        |                             |                               |               |        |                                    |                  |        |                                           |                                    |                     |                              |                        |                          |                                                                                      |
|                      |       |                    |        |                       |        |                             |                               |               |        |                                    |                  |        |                                           |                                    |                     |                              |                        |                          |                                                                                      |
|                      |       |                    |        |                       |        |                             |                               |               |        |                                    |                  |        |                                           |                                    |                     |                              |                        |                          |                                                                                      |
|                      |       |                    |        |                       |        |                             |                               |               |        |                                    |                  |        |                                           |                                    |                     |                              |                        |                          |                                                                                      |
|                      |       |                    |        |                       |        |                             |                               |               |        |                                    |                  |        |                                           |                                    |                     |                              |                        |                          |                                                                                      |
|                      |       |                    |        |                       |        |                             |                               |               |        |                                    |                  |        |                                           |                                    |                     |                              |                        |                          |                                                                                      |
|                      |       |                    |        |                       |        |                             |                               |               |        |                                    |                  |        |                                           |                                    |                     |                              |                        |                          |                                                                                      |
|                      |       |                    |        |                       |        |                             |                               |               |        |                                    |                  |        |                                           |                                    |                     |                              |                        |                          |                                                                                      |
|                      |       |                    |        |                       |        |                             |                               |               |        |                                    |                  |        |                                           |                                    |                     |                              |                        |                          |                                                                                      |
|                      |       |                    |        |                       |        |                             |                               |               |        |                                    |                  |        |                                           |                                    |                     |                              |                        |                          |                                                                                      |
|                      |       |                    |        |                       |        |                             |                               |               |        |                                    |                  |        |                                           |                                    |                     |                              |                        |                          |                                                                                      |
|                      |       |                    |        |                       |        |                             |                               |               |        |                                    |                  |        |                                           |                                    |                     |                              |                        |                          |                                                                                      |
|                      |       |                    |        |                       |        |                             |                               |               |        |                                    |                  |        |                                           |                                    |                     |                              |                        |                          |                                                                                      |
|                      |       |                    |        |                       |        |                             |                               |               |        |                                    |                  |        |                                           |                                    |                     |                              |                        |                          |                                                                                      |
|                      |       |                    |        |                       |        |                             |                               |               |        |                                    |                  |        |                                           |                                    |                     |                              |                        |                          |                                                                                      |
|                      |       |                    |        |                       |        |                             |                               |               |        |                                    |                  |        |                                           |                                    |                     |                              |                        |                          |                                                                                      |
|                      |       |                    |        |                       |        |                             |                               |               |        |                                    |                  |        |                                           |                                    |                     |                              |                        |                          |                                                                                      |
|                      |       |                    |        |                       |        |                             |                               |               |        |                                    |                  |        |                                           |                                    |                     |                              |                        |                          |                                                                                      |
|                      |       |                    |        |                       |        |                             |                               |               |        |                                    |                  |        |                                           |                                    |                     |                              |                        |                          |                                                                                      |
|                      |       |                    |        |                       |        |                             |                               |               |        |                                    |                  |        |                                           |                                    |                     |                              |                        |                          |                                                                                      |
|                      |       |                    |        |                       |        |                             |                               |               |        |                                    |                  |        |                                           |                                    |                     |                              |                        |                          |                                                                                      |
|                      |       |                    |        |                       |        |                             |                               |               |        |                                    |                  |        |                                           |                                    |                     |                              |                        |                          |                                                                                      |
|                      |       |                    |        |                       |        |                             |                               |               |        |                                    |                  |        |                                           |                                    |                     |                              |                        |                          |                                                                                      |
|                      |       |                    |        |                       |        |                             |                               |               |        |                                    |                  |        |                                           |                                    |                     |                              |                        |                          |                                                                                      |
|                      |       |                    |        |                       |        |                             |                               |               |        |                                    |                  |        |                                           |                                    |                     |                              |                        |                          |                                                                                      |
|                      |       |                    |        |                       |        |                             |                               |               |        |                                    |                  |        |                                           |                                    |                     |                              |                        |                          |                                                                                      |

**SITE INFORMATION:**

Nature of ground: ☐ Soft-landscaping ☒ Hardstanding

State of ground: ☒ Dry ☐ Wet  
☐ Frozen ☐ Snow

Wind: ☒ Calm ☐ Moderate ☐ Strong

Cloud cover: ☐ None ☒ Cloudy ☐ Overcast

Precipitation: ☒ None ☐ Moderate ☐ Heavy

**METEOROLOGICAL INFORMATION:**

On Site Atmospheric Pressure (mbar):  
 Start of Visit  End of Visit

Nearby Weather Station:

Mean Sea-Level Pressure (mbar):  
 24h prior  
 3hr prior  
 Start of Visit

Nearby weather station reported by <https://www.metoffice.gov.uk/>  
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MSLP pressure trend for the 3 hours prior to monitoring  
 Falling (decreasing change >1.6 mbar)  
 Steady (change of 0.1 - 1.5 mbar)  
 Rising (increasing change >1.6 mbar)

MSLP pressure trend for the 24 hours prior to monitoring  
 Falling  
 Steady  
 Rising

|                                                                                                  |
|--------------------------------------------------------------------------------------------------|
| <b>Additional Comments: e.g. changes in weather during monitoring; storms; extreme heat etc.</b> |
| No change in weather during monitoring                                                           |

|            |                             |
|------------|-----------------------------|
| Job No:    | CA13057                     |
| Site Name: | Hill & Smith, Newport Docks |
| Client:    | ABP                         |

|           |            |    |       |
|-----------|------------|----|-------|
| Visit No: | 2          | of | 6     |
| Date:     | 20/12/2024 |    |       |
| Time:     | 09:00      | to | 11:00 |

|                   |             |
|-------------------|-------------|
| Operator:         | Zoe Devaney |
| Gas Analyser:     | GA5000      |
| Last Calibration: | 01/10/2024  |



|                  |       | Gas Concentrations |        |                       |        |                       |                         |               |        |                              | Flow Data        |        |                                     | Volatiles                    | Well and Water Data |                        |                     | Additional Comments   |                                                                                |
|------------------|-------|--------------------|--------|-----------------------|--------|-----------------------|-------------------------|---------------|--------|------------------------------|------------------|--------|-------------------------------------|------------------------------|---------------------|------------------------|---------------------|-----------------------|--------------------------------------------------------------------------------|
| Monitoring Point | Order | Methane (%v/v)     |        | Carbon dioxide (%v/v) |        | Carbon monoxide (ppm) | Hydrogen sulphide (ppm) | Oxygen (%v/v) |        | Time taken for steady (mins) | Flow rate (l/hr) |        | Differential borehole pressure (Pa) | Time taken for steady (mins) | PID peak (ppm)      | Product thickness (mm) | Water level (m bgl) | Depth of well (m bgl) | Monitoring well specific items: state of the borehole, nature of gas bung etc. |
|                  |       | Peak               | Steady | Peak                  | Steady | Peak                  | Peak                    | Min           | Steady |                              | Peak             | Steady |                                     |                              |                     |                        |                     |                       |                                                                                |
|                  |       |                    |        |                       |        |                       |                         |               |        |                              |                  |        |                                     |                              |                     |                        |                     |                       |                                                                                |
| WS01             | 2     | 5.00               | 5.00   | 0.70                  | 0.40   | 0.00                  | 0.00                    | 0.10          | 0.10   | 2.00                         | 0.00             | 0.00   |                                     | 2.00                         |                     |                        | 1.57                |                       | Install @ 1.00m - 3.00m                                                        |
| WS02             | 2     | 0.10               | 1.00   | 3.70                  | 3.70   | 0                     | 0                       | 8.90          | 8.90   | 2.00                         | 0.0              | 0.0    |                                     | 2                            |                     |                        | 1.49                |                       | Install @ 1.00m - 4.00m                                                        |
| WS04             | 2     | 4.40               | 4.40   | 0.20                  | 0.20   | 0                     | 1                       | 0.20          | 0.20   | 2.00                         | 0.0              | 0.0    |                                     | 2                            |                     |                        | 1.47                |                       | Install @ 1.00m - 3.00m                                                        |
|                  |       |                    |        |                       |        |                       |                         |               |        |                              |                  |        |                                     |                              |                     |                        |                     |                       |                                                                                |
|                  |       |                    |        |                       |        |                       |                         |               |        |                              |                  |        |                                     |                              |                     |                        |                     |                       |                                                                                |
|                  |       |                    |        |                       |        |                       |                         |               |        |                              |                  |        |                                     |                              |                     |                        |                     |                       |                                                                                |
|                  |       |                    |        |                       |        |                       |                         |               |        |                              |                  |        |                                     |                              |                     |                        |                     |                       |                                                                                |
|                  |       |                    |        |                       |        |                       |                         |               |        |                              |                  |        |                                     |                              |                     |                        |                     |                       |                                                                                |
|                  |       |                    |        |                       |        |                       |                         |               |        |                              |                  |        |                                     |                              |                     |                        |                     |                       |                                                                                |
|                  |       |                    |        |                       |        |                       |                         |               |        |                              |                  |        |                                     |                              |                     |                        |                     |                       |                                                                                |
|                  |       |                    |        |                       |        |                       |                         |               |        |                              |                  |        |                                     |                              |                     |                        |                     |                       |                                                                                |
|                  |       |                    |        |                       |        |                       |                         |               |        |                              |                  |        |                                     |                              |                     |                        |                     |                       |                                                                                |
|                  |       |                    |        |                       |        |                       |                         |               |        |                              |                  |        |                                     |                              |                     |                        |                     |                       |                                                                                |
|                  |       |                    |        |                       |        |                       |                         |               |        |                              |                  |        |                                     |                              |                     |                        |                     |                       |                                                                                |
|                  |       |                    |        |                       |        |                       |                         |               |        |                              |                  |        |                                     |                              |                     |                        |                     |                       |                                                                                |
|                  |       |                    |        |                       |        |                       |                         |               |        |                              |                  |        |                                     |                              |                     |                        |                     |                       |                                                                                |
|                  |       |                    |        |                       |        |                       |                         |               |        |                              |                  |        |                                     |                              |                     |                        |                     |                       |                                                                                |
|                  |       |                    |        |                       |        |                       |                         |               |        |                              |                  |        |                                     |                              |                     |                        |                     |                       |                                                                                |
|                  |       |                    |        |                       |        |                       |                         |               |        |                              |                  |        |                                     |                              |                     |                        |                     |                       |                                                                                |
|                  |       |                    |        |                       |        |                       |                         |               |        |                              |                  |        |                                     |                              |                     |                        |                     |                       |                                                                                |
|                  |       |                    |        |                       |        |                       |                         |               |        |                              |                  |        |                                     |                              |                     |                        |                     |                       |                                                                                |
|                  |       |                    |        |                       |        |                       |                         |               |        |                              |                  |        |                                     |                              |                     |                        |                     |                       |                                                                                |
|                  |       |                    |        |                       |        |                       |                         |               |        |                              |                  |        |                                     |                              |                     |                        |                     |                       |                                                                                |
|                  |       |                    |        |                       |        |                       |                         |               |        |                              |                  |        |                                     |                              |                     |                        |                     |                       |                                                                                |
|                  |       |                    |        |                       |        |                       |                         |               |        |                              |                  |        |                                     |                              |                     |                        |                     |                       |                                                                                |
|                  |       |                    |        |                       |        |                       |                         |               |        |                              |                  |        |                                     |                              |                     |                        |                     |                       |                                                                                |
|                  |       |                    |        |                       |        |                       |                         |               |        |                              |                  |        |                                     |                              |                     |                        |                     |                       |                                                                                |
|                  |       |                    |        |                       |        |                       |                         |               |        |                              |                  |        |                                     |                              |                     |                        |                     |                       |                                                                                |
|                  |       |                    |        |                       |        |                       |                         |               |        |                              |                  |        |                                     |                              |                     |                        |                     |                       |                                                                                |
|                  |       |                    |        |                       |        |                       |                         |               |        |                              |                  |        |                                     |                              |                     |                        |                     |                       |                                                                                |
|                  |       |                    |        |                       |        |                       |                         |               |        |                              |                  |        |                                     |                              |                     |                        |                     |                       |                                                                                |
|                  |       |                    |        |                       |        |                       |                         |               |        |                              |                  |        |                                     |                              |                     |                        |                     |                       |                                                                                |
|                  |       |                    |        |                       |        |                       |                         |               |        |                              |                  |        |                                     |                              |                     |                        |                     |                       |                                                                                |
|                  |       |                    |        |                       |        |                       |                         |               |        |                              |                  |        |                                     |                              |                     |                        |                     |                       |                                                                                |
|                  |       |                    |        |                       |        |                       |                         |               |        |                              |                  |        |                                     |                              |                     |                        |                     |                       |                                                                                |
|                  |       |                    |        |                       |        |                       |                         |               |        |                              |                  |        |                                     |                              |                     |                        |                     |                       |                                                                                |
|                  |       |                    |        |                       |        |                       |                         |               |        |                              |                  |        |                                     |                              |                     |                        |                     |                       |                                                                                |
|                  |       |                    |        |                       |        |                       |                         |               |        |                              |                  |        |                                     |                              |                     |                        |                     |                       |                                                                                |
|                  |       |                    |        |                       |        |                       |                         |               |        |                              |                  |        |                                     |                              |                     |                        |                     |                       |                                                                                |
|                  |       |                    |        |                       |        |                       |                         |               |        |                              |                  |        |                                     |                              |                     |                        |                     |                       |                                                                                |
|                  |       |                    |        |                       |        |                       |                         |               |        |                              |                  |        |                                     |                              |                     |                        |                     |                       |                                                                                |
|                  |       |                    |        |                       |        |                       |                         |               |        |                              |                  |        |                                     |                              |                     |                        |                     |                       |                                                                                |
|                  |       |                    |        |                       |        |                       |                         |               |        |                              |                  |        |                                     |                              |                     |                        |                     |                       |                                                                                |
|                  |       |                    |        |                       |        |                       |                         |               |        |                              |                  |        |                                     |                              |                     |                        |                     |                       |                                                                                |
|                  |       |                    |        |                       |        |                       |                         |               |        |                              |                  |        |                                     |                              |                     |                        |                     |                       |                                                                                |
|                  |       |                    |        |                       |        |                       |                         |               |        |                              |                  |        |                                     |                              |                     |                        |                     |                       |                                                                                |
|                  |       |                    |        |                       |        |                       |                         |               |        |                              |                  |        |                                     |                              |                     |                        |                     |                       |                                                                                |
|                  |       |                    |        |                       |        |                       |                         |               |        |                              |                  |        |                                     |                              |                     |                        |                     |                       |                                                                                |
|                  |       |                    |        |                       |        |                       |                         |               |        |                              |                  |        |                                     |                              |                     |                        |                     |                       |                                                                                |
|                  |       |                    |        |                       |        |                       |                         |               |        |                              |                  |        |                                     |                              |                     |                        |                     |                       |                                                                                |
|                  |       |                    |        |                       |        |                       |                         |               |        |                              |                  |        |                                     |                              |                     |                        |                     |                       |                                                                                |
|                  |       |                    |        |                       |        |                       |                         |               |        |                              |                  |        |                                     |                              |                     |                        |                     |                       |                                                                                |
|                  |       |                    |        |                       |        |                       |                         |               |        |                              |                  |        |                                     |                              |                     |                        |                     |                       |                                                                                |
|                  |       |                    |        |                       |        |                       |                         |               |        |                              |                  |        |                                     |                              |                     |                        |                     |                       |                                                                                |
|                  |       |                    |        |                       |        |                       |                         |               |        |                              |                  |        |                                     |                              |                     |                        |                     |                       |                                                                                |
|                  |       |                    |        |                       |        |                       |                         |               |        |                              |                  |        |                                     |                              |                     |                        |                     |                       |                                                                                |
|                  |       |                    |        |                       |        |                       |                         |               |        |                              |                  |        |                                     |                              |                     |                        |                     |                       |                                                                                |
|                  |       |                    |        |                       |        |                       |                         |               |        |                              |                  |        |                                     |                              |                     |                        |                     |                       |                                                                                |

SITE INFORMATION:

Nature of ground:

Soft-landscaping

X

Hardstanding

State of ground:

X

Dry

Wet

Frozen

Snow

Wind:

X

Calm

Moderate

Strong

Cloud cover:

None

X

Cloudy

Overcast

Precipitation:

X

None

Moderate

Heavy

Additional Comments: e.g. changes in weather during monitoring; storms; extreme heat etc.

Dry weather conditions throughout monitoring

METEOROLOGICAL INFORMATION:

On Site Atmospheric Pressure (mbar):

1018

Start of Visit

1018

End of Visit

Nearby Weather Station:

Mean Sea-Level Pressure (mbar):

1010.4

24h prior

1021.2

3hr prior

1019.8

Start of Visit

Nearby weather station reported by <https://www.metoffice.gov.uk/>

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MSLP pressure trend for the 3 hours prior to monitoring

X

Falling (decreasing change >1.6 mbar)

Steady (change of 0.1 - 1.5 mbar)

Rising (increasing change >1.6 mbar)

MSLP pressure trend for the 24 hours prior to monitoring

Falling

Steady

X

Rising

Printed on 02/01/2025

Visit 2  
Page 1 of 1

|            |                             |
|------------|-----------------------------|
| Job No:    | CA13057                     |
| Site Name: | Hill & Smith, Newport Docks |
| Client:    | ABP                         |

|           |            |    |         |
|-----------|------------|----|---------|
| Visit No: | 3          | of | 6       |
| Date:     | 02/01/2025 |    |         |
| Time:     | 10AM       | to | 11:30AM |

|                   |             |
|-------------------|-------------|
| Operator:         | Zoe Devaney |
| Gas Analyser:     | GA5000      |
| Last Calibration: | 01/10/2024  |



|                  |       | Gas Concentrations |        |                       |        |                       |                         |               |        |                              | Flow Data        |        |                                     |                              | Volatiles      | Well and Water Data    |                     |                       | Additional Comments                                                            |
|------------------|-------|--------------------|--------|-----------------------|--------|-----------------------|-------------------------|---------------|--------|------------------------------|------------------|--------|-------------------------------------|------------------------------|----------------|------------------------|---------------------|-----------------------|--------------------------------------------------------------------------------|
| Monitoring Point | Order | Methane (%v/v)     |        | Carbon dioxide (%v/v) |        | Carbon monoxide (ppm) | Hydrogen sulphide (ppm) | Oxygen (%v/v) |        | Time taken for steady (mins) | Flow rate (l/hr) |        | Differential borehole pressure (Pa) | Time taken for steady (mins) | PID peak (ppm) | Product thickness (mm) | Water level (m bgl) | Depth of well (m bgl) | Monitoring well specific items: state of the borehole, nature of gas bung etc. |
|                  |       | Peak               | Steady | Peak                  | Steady | Peak                  | Peak                    | Min           | Steady |                              | Peak             | Steady |                                     |                              |                |                        |                     |                       |                                                                                |
|                  |       |                    |        |                       |        |                       |                         |               |        |                              |                  |        |                                     |                              |                |                        |                     |                       |                                                                                |
| WS01             | 3     | 4.90               | 4.90   | 0.40                  | 0.10   | 0.00                  | 0.00                    | 0.10          | 0.10   | 2.00                         | 0.00             | 0.00   |                                     | 2.00                         |                |                        | 1.60                |                       | Install @ 1.00m - 3.00m                                                        |
| WS02             | 3     | 1.10               | 0.20   | 3.60                  | 3.60   | 0                     | 0                       | 9.30          | 9.30   | 2.00                         | 0.0              | 0.0    |                                     | 2                            |                |                        | 1.50                |                       | Install @ 1.00m - 4.00m                                                        |
| WS04             | 3     | 4.40               | 4.40   | 0.20                  | 0.10   | 3                     | 0                       | 0.10          | 0.10   | 2.00                         | 0.1              | 0.0    |                                     | 2                            |                |                        | 1.49                |                       | Install @ 1.00m - 3.00m                                                        |
|                  |       |                    |        |                       |        |                       |                         |               |        |                              |                  |        |                                     |                              |                |                        |                     |                       |                                                                                |
|                  |       |                    |        |                       |        |                       |                         |               |        |                              |                  |        |                                     |                              |                |                        |                     |                       |                                                                                |
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|                  |       |                    |        |                       |        |                       |                         |               |        |                              |                  |        |                                     |                              |                |                        |                     |                       |                                                                                |
|                  |       |                    |        |                       |        |                       |                         |               |        |                              |                  |        |                                     |                              |                |                        |                     |                       |                                                                                |
|                  |       |                    |        |                       |        |                       |                         |               |        |                              |                  |        |                                     |                              |                |                        |                     |                       |                                                                                |
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|                  |       |                    |        |                       |        |                       |                         |               |        |                              |                  |        |                                     |                              |                |                        |                     |                       |                                                                                |
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|                  |       |                    |        |                       |        |                       |                         |               |        |                              |                  |        |                                     |                              |                |                        |                     |                       |                                                                                |
|                  |       |                    |        |                       |        |                       |                         |               |        |                              |                  |        |                                     |                              |                |                        |                     |                       |                                                                                |
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|                  |       |                    |        |                       |        |                       |                         |               |        |                              |                  | </     |                                     |                              |                |                        |                     |                       |                                                                                |

#### SITE INFORMATION:

Nature of ground: ☐ Soft-landscaping ☒ Hardstanding

State of ground: ☒ Dry ☐ Wet  
☐ Frozen ☐ Snow

Wind: ☒ Calm ☐ Moderate ☐ Strong

Cloud cover: ☐ None ☒ Cloudy ☐ Overcast

Precipitation: ☒ None ☐ Moderate ☐ Heavy

**Additional Comments: e.g. changes in weather during monitoring; storms; extreme heat etc.**

Dry weather conditions throughout monitoring

#### METEOROLOGICAL INFORMATION:

On Site Atmospheric Pressure (mbar):  
 Start of Visit  End of Visit

Nearby Weather Station: Firbank

Mean Sea-Level Pressure (mbar):  
 24h prior  
 3hr prior  
 Start of Visit

Nearby weather station reported by <https://www.metoffice.gov.uk/>  
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MSLP pressure trend for the 3 hours prior to monitoring  
 Falling (decreasing change >1.6 mbar)  
 Steady (change of 0.1 - 1.5 mbar)  
 Rising (increasing change >1.6 mbar)

MSLP pressure trend for the 24 hours prior to monitoring  
 Falling  
 Steady  
 Rising

|            |                             |
|------------|-----------------------------|
| Job No:    | CA13057                     |
| Site Name: | Hill & Smith, Newport Docks |
| Client:    | ABP                         |

|           |            |    |         |
|-----------|------------|----|---------|
| Visit No: | 4          | of | 6       |
| Date:     | 10/01/2025 |    |         |
| Time:     | 10AM       | to | 11:30AM |

|                   |             |
|-------------------|-------------|
| Operator:         | Zoe Devaney |
| Gas Analyser:     | GA5000      |
| Last Calibration: | 01/10/2024  |



|                  |       | Gas Concentrations |        |                       |        |                       |                         |               |        |                              | Flow Data        |        |                                     |                              | Volatiles      | Well and Water Data    |                     |                       | Additional Comments                                                            |
|------------------|-------|--------------------|--------|-----------------------|--------|-----------------------|-------------------------|---------------|--------|------------------------------|------------------|--------|-------------------------------------|------------------------------|----------------|------------------------|---------------------|-----------------------|--------------------------------------------------------------------------------|
| Monitoring Point | Order | Methane (%v/v)     |        | Carbon dioxide (%v/v) |        | Carbon monoxide (ppm) | Hydrogen sulphide (ppm) | Oxygen (%v/v) |        | Time taken for steady (mins) | Flow rate (l/hr) |        | Differential borehole pressure (Pa) | Time taken for steady (mins) | PID peak (ppm) | Product thickness (mm) | Water level (m bgl) | Depth of well (m bgl) | Monitoring well specific items: state of the borehole, nature of gas bung etc. |
|                  |       | Peak               | Steady | Peak                  | Steady | Peak                  | Peak                    | Min           | Steady |                              | Peak             | Steady |                                     |                              |                |                        |                     |                       |                                                                                |
|                  |       |                    |        |                       |        |                       |                         |               |        |                              |                  |        |                                     |                              |                |                        |                     |                       |                                                                                |
| WS01             | 4     | 5.60               | 4.80   | 0.50                  | 0.40   | 0.00                  | 0.00                    | 0.00          | 0.00   | 2.00                         | 0.00             | 0.00   |                                     | 2.00                         |                |                        | 1.58                |                       | Install @ 1.00m - 3.00m                                                        |
| WS02             | 4     | 1.10               | 0.30   | 3.50                  | 3.50   | 0                     | 0                       | 8.50          | 8.50   | 2.00                         | 0.0              | 0.0    |                                     | 2.00                         |                |                        | 1.47                |                       | Install @ 1.00m - 4.00m                                                        |
| WS04             | 4     | 4.40               | 4.40   | 0.30                  | 0.30   | 1                     | 0                       | 0.00          | 0.00   | 2.00                         | 0.1              | 0.1    |                                     | 2.00                         |                |                        | 1.46                |                       | Install @ 1.00m - 3.00m                                                        |
|                  |       |                    |        |                       |        |                       |                         |               |        |                              |                  |        |                                     |                              |                |                        |                     |                       |                                                                                |
|                  |       |                    |        |                       |        |                       |                         |               |        |                              |                  |        |                                     |                              |                |                        |                     |                       |                                                                                |
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|                  |       |                    |        |                       |        |                       |                         |               |        |                              |                  |        |                                     |                              |                |                        |                     |                       |                                                                                |
|                  |       |                    |        |                       |        |                       |                         |               |        |                              |                  |        |                                     |                              |                |                        |                     |                       |                                                                                |

#### SITE INFORMATION:

Nature of ground: ☐ Soft-landscaping ☒ Hardstanding

State of ground: ☒ Dry ☐ Wet  
☐ Frozen ☐ Snow

Wind: ☒ Calm ☐ Moderate ☐ Strong

Cloud cover: ☐ None ☒ Cloudy ☐ Overcast

Precipitation: ☒ None ☐ Moderate ☐ Heavy

#### Additional Comments: e.g. changes in weather during monitoring; storms; extreme heat etc.

Dry weather conditions throughout monitoring

#### METEOROLOGICAL INFORMATION:

On Site Atmospheric Pressure (mbar):  Start of Visit  End of Visit

Nearby Weather Station: Firbank

Mean Sea-Level Pressure (mbar):  24h prior  
 3hr prior  
 Start of Visit

Nearby weather station reported by <https://www.metoffice.gov.uk/>  
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MSLP pressure trend for the 3 hours prior to monitoring:  Falling (decreasing change >1.6 mbar)  
 Steady (change of 0.1 - 1.5 mbar)  
 Rising (increasing change >1.6 mbar)

MSLP pressure trend for the 24 hours prior to monitoring:  Falling  
 Steady  
 Rising

|            |                             |
|------------|-----------------------------|
| Job No:    | CA13057                     |
| Site Name: | Hill & Smith, Newport Docks |
| Client:    | ABP                         |

|           |            |    |       |
|-----------|------------|----|-------|
| Visit No: | 5          | of | 6     |
| Date:     | 22/01/2025 |    |       |
| Time:     | 10:00      | to | 11:30 |

|                   |             |
|-------------------|-------------|
| Operator:         | Zoe Devaney |
| Gas Analyser:     | GA5000      |
| Last Calibration: | 01/10/2024  |



|                  |       | Gas Concentrations |        |                       |        |                       |                         |               |        |                              | Flow Data        |        |                                     |                              | Volatiles      | Well and Water Data    |                     |                         | Additional Comments                                                           |
|------------------|-------|--------------------|--------|-----------------------|--------|-----------------------|-------------------------|---------------|--------|------------------------------|------------------|--------|-------------------------------------|------------------------------|----------------|------------------------|---------------------|-------------------------|-------------------------------------------------------------------------------|
| Monitoring Point | Order | Methane (%v/v)     |        | Carbon dioxide (%v/v) |        | Carbon monoxide (ppm) | Hydrogen sulphide (ppm) | Oxygen (%v/v) |        | Time taken for steady (mins) | Flow rate (l/hr) |        | Differential borehole pressure (Pa) | Time taken for steady (mins) | PID peak (ppm) | Product thickness (mm) | Water level (m bgl) | Depth of well (m bgl)   | Monitoring well specific items state of the borehole, nature of gas bung etc. |
|                  |       | Peak               | Steady | Peak                  | Steady | Peak                  | Peak                    | Min           | Steady |                              | Peak             | Steady |                                     |                              |                |                        |                     |                         |                                                                               |
|                  |       |                    |        |                       |        |                       |                         |               |        |                              |                  |        |                                     |                              |                |                        |                     |                         |                                                                               |
| WS01             | 5     | 4.50               | 4.50   | 0.90                  | 0.40   | 0.00                  | 0.00                    | 0.10          | 0.10   | 2.00                         | 0.10             | 0.10   |                                     | 2.00                         |                |                        | 1.63                | Install @ 1.00m - 3.00m |                                                                               |
| WS02             | 5     | 1.30               | 0.40   | 3.50                  | 3.10   | 0                     | 0                       | 8.80          | 9.10   | 2.00                         | 0.1              | 0.1    |                                     | 2.00                         |                |                        | 1.52                | Install @ 1.00m - 4.00m |                                                                               |
| WS04             | 5     | 4.30               | 4.30   | 0.20                  | 0.20   | 1                     | 0                       | 0.00          | 0.00   | 2.00                         | 0.0              | 0.0    |                                     | 2.00                         |                |                        | 1.49                | Install @ 1.00m - 3.00m |                                                                               |
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#### SITE INFORMATION:

Nature of ground: ☐ Soft-landscaping ☒ Hardstanding

State of ground: ☒ Dry ☐ Wet  
☐ Frozen ☐ Snow

Wind: ☒ Calm ☐ Moderate ☐ Strong

Cloud cover: ☒ None ☐ Cloudy ☐ Overcast

Precipitation: ☒ None ☐ Moderate ☐ Heavy

**Additional Comments: e.g. changes in weather during monitoring; storms; extreme heat etc.**

Dry weather conditions

#### METEOROLOGICAL INFORMATION:

On Site Atmospheric Pressure (mbar):  
 Start of Visit  End of Visit

Nearby Weather Station: Firbank

Mean Sea-Level Pressure (mbar):  
 24h prior  
 3hr prior  
 Start of Visit

Nearby weather station reported by <https://www.metoffice.gov.uk/>  
 Contains public sector information licensed under Open Government Licence v3.0

MSLP pressure trend for the 3 hours prior to monitoring  
 Falling (decreasing change >1.6 mbar)  
 Steady (change of 0.1 - 1.5 mbar)  
 Rising (increasing change >1.6 mbar)

MSLP pressure trend for the 24 hours prior to monitoring  
 Falling  
 Steady  
 Rising



## **Appendix G**

### **Risk Assessment Methodology**

## Guidance on Contaminated Land Risk Assessment

In the UK, contaminated land is regulated by the planning and development control system and the contaminated land regime set out in Part 2A of the Environmental Protection Act (EPA) 1990.

When considering an application for development, the potential for the land to be contaminated is a material consideration, and the local planning authority should satisfy itself that any contamination is properly assessed and adequately remediated, based on a suitable for use approach. This is to ensure that the land is made suitable for its proposed new use.

Guidance on the investigation of contamination is contained in British Standard 10175: 2011 (+A2-2017) "Investigation of potentially contaminated sites - Code of Practice". It involves an identification of risks due to the presence of contaminants, and an assessment of those risks based on the:

- possible sources of contamination;
- identification of who or what may be affected by the contaminants (the receptors);
- possible pathways by which contaminants may migrate to one or more of the receptors.

A conceptual site model is a representation of the environmental processes that occur on and in the vicinity of the site and its purpose is to identify the potential contamination linkages that exist on the site. The assessment of the significance of these contamination linkages can then be carried out through the risk assessment process.

Since the conceptual site model underpins each stage of contaminated land management, BS10175: 2011 (+A2-2017) suggests that such a model should be developed for every site. Accordingly, the results of the desk study research on the site have been used to identify the source- pathway-receptor relationships that exist on the site before and during redevelopment works.



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ENERGY AND CLIMATE CHANGE  
ENVIRONMENT AND SUSTAINABILITY  
INFRASTRUCTURE AND UTILITIES  
LAND AND PROPERTY  
MINING AND MINERAL PROCESSING  
MINERAL ESTATES  
WASTE RESOURCE MANAGEMENT



A conceptual site model is a representation of the environmental processes that occur on and in the vicinity of the site and its purpose is to identify the potential contamination linkages that exist on the site. The assessment of the significance of these contamination linkages can then be carried out through the risk assessment process.

### **Environmental Risk Assessment Methodology**

In line with EA guidance LCRM, plausible source, pathway and receptor linkages have been identified through the Conceptual Site Model (CSM). The information gathered in the CSM can now be used to carry out a Qualitative Risk Assessment (QRA).

The LCRM outlines that for each tier of Risk Assessment the following steps must be taken:

1. Identify the hazard - establish contaminant sources.
2. Assess the hazard - use a source-pathway-receptor (S-P-R) linkage approach to find out if there is the potential for unacceptable risk.
3. Estimate the risk - predict what degree of harm or pollution might result and how likely it is to occur by using the tiered approach to risk assessment.
4. Evaluate the risk - decide whether a risk is unacceptable.

The LCRM states that the assessment must be based on the potential severity that the risk poses to the receptors against the likelihood of it happening. Subsequently, it is necessary to employ a risk assessment matrix, the CIRIA document Contaminated Land Risk Assessment – a guide to good practice C552, 2001 provides a good example of a suitable risk assessment matrices.

In the CIRIA methodology, the sensitivity assessment considers the contaminant-pathway-receptor in conjunction with the contamination linkage concept (described below). This information is then used to classify consequences and the probability of a contamination linkage occurring, affording the level of sensitivity of a given receptor to be established.

### **Contamination Linkage Concept**

In forming a risk assessment for land contamination, there are three essential elements to be given consideration collectively known as a 'contaminant linkage':

- A contaminant/source – A substance that is in, on or under the land and has potential to cause harm or to cause pollution of controlled waters.



- A receptor – in general terms, something that could be adversely affected by a contaminant, these can include people, an ecological system, property or a water body; and
- A pathway – a route or means by which a receptor can be exposed to or affected by a contaminant.

Each of these elements can exist independently, but they create a risk where they are linked together, so that a particular contaminant affects a particular receptor through a particular pathway. This kind of linked combination of contaminant-pathway-receptor is described as a contaminant linkage.

### **Sensitivity Assessment Criteria**

By considering the contaminant, pathways and receptors, an assessment of the environmental risk is made with reference to the degree of sensitivity of the receptor to a contaminant.

The qualitative sensitivity assessment is conducted by determining the severity of the potential consequences, taking into account the probability of risk and by considering the sensitivity of the receptor based on the categories below. It follows CIRIA documents C552 terminology and methodology as summarised:

|                        |   |                     |   |             |
|------------------------|---|---------------------|---|-------------|
| Potential Consequences | x | Probability of Risk | = | Sensitivity |
| (Table 1)              | x | (Table 2)           | = | (Table 3)   |



Table 1 presents the consequences to the receptor of the contaminant linkage being realised. It has four categories, with severe being the most serious and minor being the least serious consequences:

| Table 1 – Consequence of Risk Being Realised                            |                     |                                                                                                                                                                                           |                                                                                                                   |
|-------------------------------------------------------------------------|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| Classification                                                          | Category            | Definition                                                                                                                                                                                | Examples (Not necessarily specific to this site)                                                                  |
| <b>Severe</b><br><br>short-term (acute) risks only                      | Humans              | Short-term (acute) risk to human health likely to result in “significant harm” as defined by the Environment Protection Act 1990, Part 2A.                                                | High concentrations of cyanide on the surface of an informal recreation area.                                     |
|                                                                         | Controlled Waters   | Short-term risk of pollution (note: Water Resources Act contains no scope for considering significance of pollution) of sensitive water resource.                                         | Major spillage of contaminants from site into controlled water.                                                   |
|                                                                         | Property            | Catastrophic damage to buildings/property.                                                                                                                                                | Explosion causing building collapse (can also equate to a short-term human health risk if buildings are occupied. |
|                                                                         | Ecological System   | A short-term risk to a particular ecosystem, or organism forming part of such ecosystem.                                                                                                  |                                                                                                                   |
| <b>Medium</b><br><br>chronic (long term) risks; “significant harm”      | Humans              | Chronic damage to Human Health (“significant harm” as defined in Defra 2006).                                                                                                             | Concentrations of a contaminant from site exceed the generic, or site-specific assessment criteria                |
|                                                                         | Controlled Waters   | Pollution of sensitive water resources (note: Water Resources Act contains no scope for considering significance of pollution).                                                           | Leaching of contaminants from a site into a major or minor aquifer.                                               |
|                                                                         | Ecological System   | A significant change in a particular ecosystem                                                                                                                                            | Death of a species within a designated nature reserve.                                                            |
| <b>Mild</b><br><br>chronic (long term) risks; fewer sensitive receptors | Controlled Waters   | Pollution of non-sensitive water resources.                                                                                                                                               | Pollution of non-classified groundwater                                                                           |
|                                                                         | Property            | Significant damage to buildings, structures and services (“significant harm” as defined in Circular on Contaminated Land, Defra, 2006). Damage to sensitive buildings/structures/services | Damage to building rendering it unsafe to occupy (e.g., foundation damage resulting in instability)               |
|                                                                         | Ecological System   | Significant damage to crops. Damage to the environment.                                                                                                                                   |                                                                                                                   |
| <b>Minor</b><br><br>chronic (long term) risks; mild                     | Financial project / | Harm, although not necessarily significant harm, which may result in a financial loss, or expenditure to resolve.                                                                         |                                                                                                                   |
|                                                                         | Humans              | Non-permanent health effects to human health (easily prevented by means such as personal protective clothing, etc).                                                                       | The presence of contaminants at such concentrations that protective equipment is required during site works.      |
|                                                                         | Property            | Easily repairable effects of damage to buildings, structures and services                                                                                                                 | The loss of plants in a landscaping scheme. Discolouration of concrete.                                           |



The likelihood of the pollution linkage being realised must take into account the presence of the source and position of the receptor as well as the pathway that connects them. Table 2 overleaf defines the likelihood of the pollution linkage occurring.

| <b>TABLE 2: Probability of Risk Being Realised</b> |                                                                                                                                                                                                                                                                         |
|----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Classification</b>                              | <b>Definition</b>                                                                                                                                                                                                                                                       |
| <b>High Likelihood</b>                             | There is a contaminant linkage and an event that either appears very likely in the short term and almost inevitable over the long term, or there is evidence at the receptor of harm or pollution.                                                                      |
| <b>Likely</b>                                      | There is a contaminant linkage and all the elements are present and in the right place, which means that it is probable that an event will occur. Circumstances are such that an event is not inevitable, but possible in the short term and likely over the long term. |
| <b>Low Likelihood</b>                              | There is a contaminant linkage and circumstances are possible under which an event could occur. However, it is by no means certain that even over a longer period such event would take place and is less likely in the shorter term.                                   |
| <b>Unlikely</b>                                    | There is a contaminant linkage, but circumstances are such that it is improbable that an event would occur even in the very long term.                                                                                                                                  |

The potential consequences and the probability of the risk occurring are combined to form the classification of sensitivity matrix, as presented in Table 3a below. It provides a sensitivity category for potential receptors if a pollution linkage exists, allowing the level of sensitivity of a receptor in a particular circumstance can be determined.

| <b>TABLE 3a: Risk Classification Matrix</b> |                        |                    |               |              |              |
|---------------------------------------------|------------------------|--------------------|---------------|--------------|--------------|
|                                             |                        | <b>Consequence</b> |               |              |              |
|                                             |                        | <b>Severe</b>      | <b>Medium</b> | <b>Mild</b>  | <b>Minor</b> |
| <b>Probability</b>                          | <b>High Likelihood</b> | Very High          | High          | Moderate     | Moderate/Low |
|                                             | <b>Likely</b>          | High               | Moderate      | Moderate/Low | Low          |
|                                             | <b>Low Likelihood</b>  | Moderate           | Moderate/Low  | Low          | Very Low     |
|                                             | <b>Unlikely</b>        | Moderate/Low       | Low           | Very Low     | Very Low     |



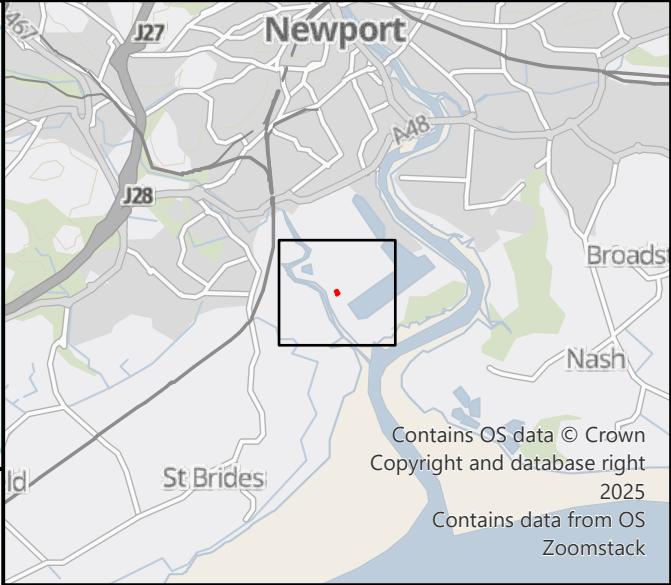
| TABLE 3b: Risk Classification Definitions |                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Very High</b>                          | There is a high probability that severe harm could arise to a designated receptor from an identified hazard, OR there is evidence that severe harm to a designated receptor is currently happening. This risk, if realised, is likely to result in a substantial liability. Urgent investigation (if not undertaken already) and remediation are likely to be required.                                                                        |
| <b>High</b>                               | Harm is likely to arise to a designated receptor from an identified hazard. Realisation of the risk is likely to present a substantial liability. Urgent investigation (if not undertaken already) is required and remedial works may be necessary in the short term and are likely over the longer term.                                                                                                                                      |
| <b>Moderate</b>                           | It is possible that harm could arise to a designated receptor from an identified hazard. However, it is either relatively unlikely that such harm would be severe, or if any harm were to occur it is more likely that the harm would be relatively mild. Investigation (if not already undertaken) is normally required to clarify the risk and to determine the potential liability. Some remedial works may be required in the longer term. |
| <b>Moderate / Low</b>                     | A notable balance between moderate and low categorisation. The moderate/low interface.                                                                                                                                                                                                                                                                                                                                                         |
| <b>Low</b>                                | It is possible that harm could arise to a designated receptor from an identified hazard, but it is likely that this harm, if realised, would at worst normally be mild.                                                                                                                                                                                                                                                                        |
| <b>Very Low</b>                           | There is a low possibility that harm could arise to a receptor. In the event of such harm being realised it is not likely to be severe.                                                                                                                                                                                                                                                                                                        |

Under each of the contaminant linkage categories, the identified environmental risks have been assessed with regard to a wide range of topics including (where appropriate):

- the 'source-pathway-receptor' concept;
- the behaviour of potential contaminants within the environment;
- environmental processes;
- industrial operations and best practice;
- current environmental legislation;
- the views and practices of the environmental regulators;
- the likelihood of environmental notices, orders or other enforcement action;
- any requirements to remove waste, contaminated or hazardous materials;
- the health and safety of occupiers or neighbours;
- any redevelopment plans for the site; and
- effects on the fabric of buildings caused by contamination.

## **Drawing 1**

**CA13057-007 Site Location Plan**



## **Drawing 2**

**CA13057-009 As Built Ground Investigation Locations**



KEY

- Approximate Site Boundary
- ⊕ As-Built Ground Investigation Locations
- Previous Soakaway Trial Pit Approximate Location (Integral Geotechnique 2023)

Notes:

Boundaries are indicative. Aerial imagery shown for context purposes only.

Site Boundary approxiamtely digitised from georeferenced plan "Site Location and Planning Application Boundary" PDF produced by Wardell Armstrong.

All exploratory hole locations are the result of Wardell Armstrong ground investigations.

Previous Soakaway Trial Pit Location approximately georeferenced from file 'Soakaway Testing Letter Report-GI Plan.pdf' received from client.

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| A        | FIRST ISSUE | 24/02/25 | CP    | ZD   | LP   |
| REVISION | DETAILS     | DATE     | DRAWN | CHKD | APPD |

CLIENT

ASSOCIATED BRITISH PORTS

PROJECT

HILL & SMITH COMPOUND OFFICE DEVELOPMENT

DRAWING TITLE

AS-BUILT GROUND INVESTIGATION LOCATIONS

|          |             |            |       |             |            |
|----------|-------------|------------|-------|-------------|------------|
| DRG No.  | CA13057-009 | REV        | A     | SUIT. CODE  | ---        |
| DRG SIZE | A3          | SCALE      | 1:500 | DATE        | 24/02/2025 |
| DRAWN BY | BL          | CHECKED BY | ZD    | APPROVED BY | LP         |

  
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