



PLATE 9 –The tank on the site



PLATE 10 – Looking towards the western site entrance



PLATE 11 –Looking eastwards along the northern edge of the concrete surfaced area with the storage bays



PLATE 12 – The former offices and weighbridge viewed from northern side



PLATE 13 – Looking southwards along the eastern boundary.



PLATE 14 – Location of WS01



PLATE 15 –WS01 cores



PLATE 16 – Location of WS02



PLATE 17 –WS02 cores



PLATE 18 –Location of WS03



PLATE 19 –WS02 cores



PLATE 20 –Location of WS04



PLATE 21 –WS04 cores



PLATE 22 –Location of WS05



PLATE 23 –WS05 cores



PLATE 24 –Location of WS06



PLATE 25 –WS06 cores



PLATE 26 –Location of WS07



PLATE 27 –WS07 cores



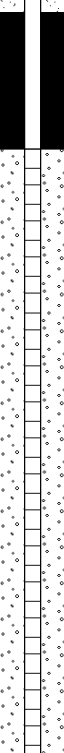
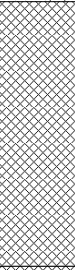
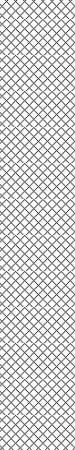
PLATE 28 –Location of WS08



PLATE 19 –WS08 cores

## **APPENDIX E – Exploratory Hole Logs**

|                                                                                                                                                                                                                        |      |                                                        |                |                              |                                                                                                                                                                                                                                                                          |                              |            |     |                                                                                                                                                                                      |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|--------------------------------------------------------|----------------|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|------------|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  <b>ADVANCED INVESTIGATION SYSTEMS LTD</b><br>Tel: 07970 460 427<br>Email: enquiries@windowsampling.com<br>Web: www.windowsampling.com |      | <b>BOREHOLE RECORD</b><br><b>(Window Sampling)</b>     |                |                              | Borehole Number<br><br><b>WS01</b>                                                                                                                                                                                                                                       |                              |            |     |                                                                                                                                                                                      |
| <b>Site:</b><br>Wimbourne Road, Barry Docks, Barry, South Glamorgan                                                                                                                                                    |      | <b>Engineer:</b><br>Forge Environmental Management Ltd |                |                              | <b>Drilling Equipment:</b><br>Competitor 130                                                                                                                                                                                                                             |                              |            |     |                                                                                                                                                                                      |
| <b>Client:</b><br>South West Wood Products Ltd                                                                                                                                                                         |      | <b>Elevation mAOD:    Easting:    Northing:</b>        |                |                              | <b>Start:</b><br>05/03/2024                                                                                                                                                                                                                                              | <b>Finish:</b><br>05/03/2024 |            |     |                                                                                                                                                                                      |
|                                                                                                                                                                                                                        |      |                                                        |                |                              | <b>Scale:</b><br>1:50                                                                                                                                                                                                                                                    |                              |            |     |                                                                                                                                                                                      |
| <b>GROUND WATER</b>                                                                                                                                                                                                    |      | <b>SAMPLING &amp; IN SITU TESTING</b>                  |                |                              | <b>STRATA RECORD</b>                                                                                                                                                                                                                                                     |                              |            |     |                                                                                                                                                                                      |
| Strike                                                                                                                                                                                                                 | Well | Depth (m)                                              | Depth/Type (m) | Standard Penetration Testing | Sampler / Recovery                                                                                                                                                                                                                                                       | Depth mBGL                   | Depth mAOD | Key | Description                                                                                                                                                                          |
|                                                                                                                                                                                                                        |      |                                                        |                |                              | Broken out                                                                                                                                                                                                                                                               |                              |            |     | CONCRETE                                                                                                                                                                             |
|                                                                                                                                                                                                                        |      |                                                        |                |                              | 116mm WLS: 100%                                                                                                                                                                                                                                                          | 1                            | 1.0        |     | MADE GROUND: firm to stiff friable dark grey brown / dark grey / grey sandy silty very gravelly CLAY with brick concrete mudstone limestone coal.                                    |
|                                                                                                                                                                                                                        |      |                                                        |                |                              | 101mm WLS: 80%                                                                                                                                                                                                                                                           | 2                            | 2.0        |     | MADE GROUND: firm locally stiff brown grey / dark grey / grey variegated locally sandy slightly gravelly silty CLAY. Gravel is fine medium coarse angular limestone mudstone gravel. |
|                                                                                                                                                                                                                        |      |                                                        |                |                              | 92mm WLS: 100%                                                                                                                                                                                                                                                           | 3                            | 3.0        |     | MADE GROUND: soft to firm locally stiff grey locally brown grey & dark grey variegated slightly gravelly silty CLAY. Gravel is fine medium coarse angular limestone & mudstone.      |
|                                                                                                                                                                                                                        |      |                                                        |                |                              |                                                                                                                                                                                                                                                                          | 4                            | 4.0        |     |                                                                                                                                                                                      |
|                                                                                                                                                                                                                        |      |                                                        |                |                              | 70mm WS: 70%                                                                                                                                                                                                                                                             | 5                            | 5.0        |     | Soft becoming firm & stiff towards base grey locally grey brown variegated thinly laminated locally slightly sandy silty CLAY.                                                       |
|                                                                                                                                                                                                                        |      |                                                        |                |                              |                                                                                                                                                                                                                                                                          | 6                            | 6.0        |     |                                                                                                                                                                                      |
|                                                                                                                                                                                                                        |      |                                                        |                |                              |                                                                                                                                                                                                                                                                          | 7                            | 7.0        |     |                                                                                                                                                                                      |
|                                                                                                                                                                                                                        |      |                                                        |                |                              |                                                                                                                                                                                                                                                                          | 8                            | 8.0        |     |                                                                                                                                                                                      |
|                                                                                                                                                                                                                        |      |                                                        |                |                              |                                                                                                                                                                                                                                                                          | 9                            | 9.0        |     |                                                                                                                                                                                      |
|                                                                                                                                                                                                                        |      |                                                        |                |                              |                                                                                                                                                                                                                                                                          | 10                           | 10.0       |     |                                                                                                                                                                                      |
| <b>Remarks / Well Installation / Casing Details</b><br>50mm ID slotted well screen installed to 5.0m BGL.                                                                                                              |      |                                                        |                |                              |                                                                                                                                                                                                                                                                          |                              |            |     |                                                                                                                                                                                      |
|                                                                                                                                     |      |                                                        |                |                              | ES    ES Sample<br>●    Disturbed Sample<br>W    Water Sample<br>♂    Bulk Sample<br>U    Undisturbed Sample                                                                                                                                                             |                              |            |     |                                                                                                                                                                                      |
|                                                                                                                                                                                                                        |      |                                                        |                |                              | WLS Windowless Sampler<br>WS Window Sampler<br> Depth to water strike<br> Standing water depth |                              |            |     |                                                                                                                                                                                      |
|                                                                                                                                                                                                                        |      |                                                        |                |                              | Job No. AD0209                                                                                                                                                                                                                                                           |                              |            |     |                                                                                                                                                                                      |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                    |                                                         |                |                                       |                       |            |            |                                                                                    |                                                                                                                                                                       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|---------------------------------------------------------|----------------|---------------------------------------|-----------------------|------------|------------|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  <div>ADVANCED INVESTIGATION SYSTEMS LTD<br/>Tel: 07970 460 427<br/>Email: enquiries@windowsampling.com<br/>Web: www.windowsampling.com</div>                                                                                                                                                                                                                                                                                                                         |                                                                                    | <div>BOREHOLE RECORD</div> <div>(Window Sampling)</div> |                | Borehole Number<br><br><b>WS02</b>    |                       |            |            |                                                                                    |                                                                                                                                                                       |
| Site:<br>Wimbourne Road, Barry Docks, Barry, South Glamorgan                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                    | Engineer:<br>Forge Environmental Management Ltd         |                | Drilling Equipment:<br>Competitor 130 |                       |            |            |                                                                                    |                                                                                                                                                                       |
| Client:<br>South West Wood Products Ltd                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                    | Elevation mAOD:    Easting:    Northing:                |                | Start:<br>05/03/2024                  | Finish:<br>05/03/2024 |            |            |                                                                                    |                                                                                                                                                                       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                    |                                                         |                | Scale:<br>1:50                        |                       |            |            |                                                                                    |                                                                                                                                                                       |
| GROUND WATER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                    | SAMPLING & IN SITU TESTING                              |                | STRATA RECORD                         |                       |            |            |                                                                                    |                                                                                                                                                                       |
| Strike                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Well                                                                               | Depth (m)                                               | Depth/Type (m) | Standard Penetration Testing          | Sampler / Recovery    | Depth mBGL | Depth mAOD | Key                                                                                | Description                                                                                                                                                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |                                                         |                |                                       | Broken out            |            |            |   | CONCRETE                                                                                                                                                              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                    |                                                         |                |                                       | 116mm WLS: 100%       | 1          | 1.0        |   | MADE GROUND: (loose) dark grey brown / grey / light grey gravelly clayey silty fine medium coarse SAND. Gravel is fine medium coarse limestone mudstone brick mortar. |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                    |                                                         |                |                                       | 101mm WLS: 90%        | 2          | 2.0        |  | MADE GROUND: soft light grey silty sandy gravelly CLAY. Gravel is fine medium coarse angular limestone & mudstone.                                                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                    |                                                         |                |                                       | 92mm WLS: 50%         | 3          | 3.0        |                                                                                    |                                                                                                                                                                       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                    |                                                         |                |                                       |                       | 4          | 4.0        |                                                                                    |                                                                                                                                                                       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                    |                                                         |                |                                       | 70mm WS: 70%          | 5          | 5.0        |                                                                                    |                                                                                                                                                                       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                    |                                                         |                |                                       |                       | 6          | 6.0        |                                                                                    |                                                                                                                                                                       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                    |                                                         |                |                                       |                       | 7          | 7.0        |                                                                                    |                                                                                                                                                                       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                    |                                                         |                |                                       |                       | 8          | 8.0        |                                                                                    |                                                                                                                                                                       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                    |                                                         |                |                                       |                       | 9          | 9.0        |                                                                                    |                                                                                                                                                                       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                    |                                                         |                |                                       |                       | 10         | 10.0       |                                                                                    |                                                                                                                                                                       |
| Remarks / Well Installation / Casing Details<br>50mm ID slotted well screen installed to 5.0m BGL.                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                    |                                                         |                |                                       |                       |            |            |                                                                                    |                                                                                                                                                                       |
| <div></div> <div><div>ES    ES Sample<br/>●    Disturbed Sample<br/>W    Water Sample<br/>⊕    Bulk Sample<br/>U    Undisturbed Sample</div><div>WLS Windowless Sampler<br/>WS Window Sampler<br/> Depth to water strike<br/> Standing water depth</div></div> <div>Job No. AD0209</div> |                                                                                    |                                                         |                |                                       |                       |            |            |                                                                                    |                                                                                                                                                                       |



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**BOREHOLE RECORD**  
**(Window Sampling)**Borehole  
Number**WS03****Site:**Wimbourne Road, Barry Docks, Barry, South  
Glamorgan**Engineer:**

Forge Environmental Management Ltd

**Drilling Equipment:**

Competitor 130

**Client:**

South West Wood Products Ltd

**Elevation mAOD: Easting: Northing:****Start:**

05/03/2024

**Finish:**

05/03/2024

**Scale:**

1:50

**GROUND WATER****SAMPLING & IN SITU TESTING****STRATA RECORD**

Sheet 1 of 1

| Strike | Well | Depth<br>(m) | Depth/Type<br>(m) | Standard Penetration<br>Testing | Sampler /<br>Recovery | Depth<br>mBGL | Depth<br>mAOD | Key | Description                                                                                                                                                            |
|--------|------|--------------|-------------------|---------------------------------|-----------------------|---------------|---------------|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|        |      |              |                   |                                 | Broken out            |               |               |     | CONCRETE                                                                                                                                                               |
|        |      |              |                   |                                 | 116mm WLS:<br>100%    | 1             | 1.0           |     | MADE GROUND: stiff dark brown grey locally dark<br>red brown sandy silty CLAY with occasional<br>mudstone gravel.                                                      |
|        |      |              |                   |                                 | 101mm WLS:<br>90%     | 2             | 2.0           |     | MADE GROUND: firm to stiff red brown sandy silty<br>CLAY. Rare mudstone gravel.                                                                                        |
|        |      |              |                   |                                 | 92mm WLS:<br>80%      | 3             | 3.0           |     | MADE GROUND: soft red brown SILT.<br>MADE GROUND: (loose) grey slightly gravelly<br>clayey silty fine medium SAND. Gravel is fine<br>medium coarse limestone mudstone. |
|        |      |              |                   |                                 | 70mm WS:<br>80%       | 5             | 5.0           |     | Stiff grey thinly laminated locally slightly sandy silty<br>CLAY.                                                                                                      |
|        |      |              |                   |                                 |                       | 6             | 6.0           |     |                                                                                                                                                                        |
|        |      |              |                   |                                 |                       | 7             | 7.0           |     |                                                                                                                                                                        |
|        |      |              |                   |                                 |                       | 8             | 8.0           |     |                                                                                                                                                                        |
|        |      |              |                   |                                 |                       | 9             | 9.0           |     |                                                                                                                                                                        |
|        |      |              |                   |                                 |                       | 10            | 10.0          |     |                                                                                                                                                                        |

**Remarks / Well Installation / Casing Details**

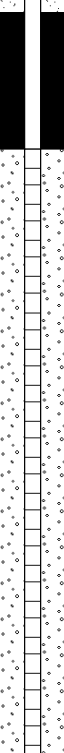
50mm ID slotted well screen installed to 4.0m BGL.



ES ES Sample  
● □ Disturbed Sample  
W Water Sample  
⊕ Bulk Sample  
U Undisturbed Sample

WLS Windowless Sampler  
WS Window Sampler  
▽ Depth to water strike  
▲ Standing water depth

Job No. AD0209

|                                                                                                                                                                                                                               |                                                                                    |                                                         |                |                                       |                                    |                                                                                                                             |            |     |                                                                                                                                                                               |                                                                                                                |
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|  <div>ADVANCED INVESTIGATION SYSTEMS LTD<br/>Tel: 07970 460 427<br/>Email: enquiries@windowsampling.com<br/>Web: www.windowsampling.com</div> |                                                                                    | <div>BOREHOLE RECORD</div> <div>(Window Sampling)</div> |                |                                       | Borehole Number<br><br><b>WS04</b> |                                                                                                                             |            |     |                                                                                                                                                                               |                                                                                                                |
| Site:<br>Wimbourne Road, Barry Docks, Barry, South Glamorgan                                                                                                                                                                  |                                                                                    | Engineer:<br>Forge Environmental Management Ltd         |                | Drilling Equipment:<br>Competitor 130 |                                    |                                                                                                                             |            |     |                                                                                                                                                                               |                                                                                                                |
| Client:<br>South West Wood Products Ltd                                                                                                                                                                                       |                                                                                    | Elevation mAOD:    Easting:    Northing:                |                | Start:<br>06/03/2024                  | Finish:<br>06/03/2024              |                                                                                                                             |            |     |                                                                                                                                                                               |                                                                                                                |
|                                                                                                                                                                                                                               |                                                                                    |                                                         |                | Scale:<br>1:50                        |                                    |                                                                                                                             |            |     |                                                                                                                                                                               |                                                                                                                |
| GROUND WATER                                                                                                                                                                                                                  |                                                                                    | SAMPLING & IN SITU TESTING                              |                | STRATA RECORD                         |                                    |                                                                                                                             |            |     |                                                                                                                                                                               |                                                                                                                |
| Strike                                                                                                                                                                                                                        | Well                                                                               | Depth (m)                                               | Depth/Type (m) | Standard Penetration Testing          | Sampler / Recovery                 | Depth mBGL                                                                                                                  | Depth mAOD | Key | Description                                                                                                                                                                   |                                                                                                                |
|                                                                                                                                                                                                                               |  | 1.84<br>2.00                                            |                |                                       | Broken out                         |                                                                                                                             |            |     | CONCRETE                                                                                                                                                                      |                                                                                                                |
|                                                                                                                                                                                                                               |                                                                                    |                                                         |                |                                       | 116mm WLS: 100%                    | 1                                                                                                                           | 1.0        |     | MADE GROUND: grey / dark grey clayey silty fine medium coarse SAND & GRAVEL of angular mudstone.                                                                              |                                                                                                                |
|                                                                                                                                                                                                                               |                                                                                    |                                                         |                |                                       | 101mm WLS: 80%                     | 2                                                                                                                           | 2.0        |     | MADE GROUND: firm locally stiff brown grey / dark grey / grey variegated sandy slightly gravelly silty CLAY. Gravel is fine medium coarse angular limestone mudstone graveez. |                                                                                                                |
|                                                                                                                                                                                                                               |                                                                                    |                                                         |                |                                       | 92mm WLS: 90%                      | 3                                                                                                                           | 3.0        |     |                                                                                                                                                                               |                                                                                                                |
|                                                                                                                                                                                                                               |                                                                                    |                                                         |                |                                       |                                    | 4                                                                                                                           | 4.0        |     |                                                                                                                                                                               |                                                                                                                |
|                                                                                                                                                                                                                               |                                                                                    |                                                         |                |                                       | 70mm WS: 90%                       | 5                                                                                                                           | 5.0        |     | Stiff grey locally grey brown thinly laminated locally slightly sandy silty CLAY.                                                                                             |                                                                                                                |
|                                                                                                                                                                                                                               |                                                                                    |                                                         |                |                                       |                                    | 6                                                                                                                           | 6.0        |     |                                                                                                                                                                               |                                                                                                                |
|                                                                                                                                                                                                                               |                                                                                    |                                                         |                |                                       |                                    | 7                                                                                                                           | 7.0        |     |                                                                                                                                                                               |                                                                                                                |
|                                                                                                                                                                                                                               |                                                                                    |                                                         |                |                                       |                                    | 8                                                                                                                           | 8.0        |     |                                                                                                                                                                               |                                                                                                                |
|                                                                                                                                                                                                                               |                                                                                    |                                                         |                |                                       |                                    | 9                                                                                                                           | 9.0        |     |                                                                                                                                                                               |                                                                                                                |
|                                                                                                                                                                                                                               |                                                                                    |                                                         |                |                                       |                                    | 10                                                                                                                          | 10.0       |     |                                                                                                                                                                               |                                                                                                                |
| Remarks / Well Installation / Casing Details<br>50mm ID slotted well screen installed to 5.0m BGL.                                                                                                                            |                                                                                    |                                                         |                |                                       |                                    |                                          |            |     |                                                                                                                                                                               |                                                                                                                |
|                                                                                                                                                                                                                               |                                                                                    |                                                         |                |                                       |                                    | <div>ES    ES Sample<br/>●    Disturbed Sample<br/>W    Water Sample<br/>⊕    Bulk Sample<br/>U    Undisturbed Sample</div> |            |     |                                                                                                                                                                               | <div>WLS Windowless Sampler<br/>WS Window Sampler<br/>▽ Depth to water strike<br/>▼ Standing water depth</div> |
|                                                                                                                                                                                                                               |                                                                                    |                                                         |                |                                       |                                    | Job No. AD0209                                                                                                              |            |     |                                                                                                                                                                               |                                                                                                                |

|                                                                                                                                                                                                                        |      |                                                        |                |                              |                                                                                                                                                                                                                                                                          |                              |            |     |                                                                                                                                                                                                                                                               |
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|  <b>ADVANCED INVESTIGATION SYSTEMS LTD</b><br>Tel: 07970 460 427<br>Email: enquiries@windowsampling.com<br>Web: www.windowsampling.com |      | <b>BOREHOLE RECORD</b><br><b>(Window Sampling)</b>     |                |                              | Borehole Number<br><br><b>WS05</b>                                                                                                                                                                                                                                       |                              |            |     |                                                                                                                                                                                                                                                               |
| <b>Site:</b><br>Wimbourne Road, Barry Docks, Barry, South Glamorgan                                                                                                                                                    |      | <b>Engineer:</b><br>Forge Environmental Management Ltd |                |                              | <b>Drilling Equipment:</b><br>Competitor 130                                                                                                                                                                                                                             |                              |            |     |                                                                                                                                                                                                                                                               |
| <b>Client:</b><br>South West Wood Products Ltd                                                                                                                                                                         |      | <b>Elevation mAOD:    Easting:    Northing:</b>        |                |                              | <b>Start:</b><br>05/03/2024                                                                                                                                                                                                                                              | <b>Finish:</b><br>05/03/2024 |            |     |                                                                                                                                                                                                                                                               |
|                                                                                                                                                                                                                        |      |                                                        |                |                              | <b>Scale:</b><br>1:50                                                                                                                                                                                                                                                    |                              |            |     |                                                                                                                                                                                                                                                               |
| <b>GROUND WATER</b>                                                                                                                                                                                                    |      | <b>SAMPLING &amp; IN SITU TESTING</b>                  |                |                              | <b>STRATA RECORD</b>                                                                                                                                                                                                                                                     |                              |            |     |                                                                                                                                                                                                                                                               |
| Strike                                                                                                                                                                                                                 | Well | Depth (m)                                              | Depth/Type (m) | Standard Penetration Testing | Sampler / Recovery                                                                                                                                                                                                                                                       | Depth mBGL                   | Depth mAOD | Key | Description                                                                                                                                                                                                                                                   |
|                                                                                                                                                                                                                        |      |                                                        |                |                              | Broken out                                                                                                                                                                                                                                                               |                              |            |     | CONCRETE                                                                                                                                                                                                                                                      |
|                                                                                                                                                                                                                        |      |                                                        |                |                              | 116mm WLS: 100%                                                                                                                                                                                                                                                          | 1                            | -1.0       |     | MADE GROUND: (Loose) grey / brown grey silty clayey fine medium coarse SAND & GRAVEL of brick concrete limestone mudstone. Occasional cobble.                                                                                                                 |
|                                                                                                                                                                                                                        |      |                                                        |                |                              | 101mm WLS: 100%                                                                                                                                                                                                                                                          | 2                            | -2.0       |     | MADE GROUND: hard friable dark grey black sandy gravelly SILT (compressed coal dust & limestone mudstone gravel).<br>MADE GROUND: very stiff becoming stiff grey locally brown grey slightly sandy gravelly silty CLAY. Gravel is angular limestone mudstone. |
|                                                                                                                                                                                                                        |      |                                                        |                |                              | 92mm WLS: 100%                                                                                                                                                                                                                                                           | 3                            | -3.0       |     | MADE GROUND: soft to firm grey locally brown grey & dark grey variegated slightly gravelly silty CLAY. Gravel is fine medium coarse angular limestone & mudstone.                                                                                             |
|                                                                                                                                                                                                                        |      |                                                        |                |                              |                                                                                                                                                                                                                                                                          | 4                            | -4.0       |     | Stiff grey locally grey brown thinly laminated locally slightly sandy silty CLAY.                                                                                                                                                                             |
|                                                                                                                                                                                                                        |      |                                                        |                |                              | 70mm WS: 80%                                                                                                                                                                                                                                                             | 5                            | -5.0       |     |                                                                                                                                                                                                                                                               |
|                                                                                                                                                                                                                        |      |                                                        |                |                              |                                                                                                                                                                                                                                                                          | 6                            | -6.0       |     |                                                                                                                                                                                                                                                               |
|                                                                                                                                                                                                                        |      |                                                        |                |                              |                                                                                                                                                                                                                                                                          | 7                            | -7.0       |     |                                                                                                                                                                                                                                                               |
|                                                                                                                                                                                                                        |      |                                                        |                |                              |                                                                                                                                                                                                                                                                          | 8                            | -8.0       |     |                                                                                                                                                                                                                                                               |
|                                                                                                                                                                                                                        |      |                                                        |                |                              |                                                                                                                                                                                                                                                                          | 9                            | -9.0       |     |                                                                                                                                                                                                                                                               |
|                                                                                                                                                                                                                        |      |                                                        |                |                              |                                                                                                                                                                                                                                                                          | 10                           | -10.0      |     |                                                                                                                                                                                                                                                               |
| <b>Remarks / Well Installation / Casing Details</b><br>50mm ID slotted well screen installed to 5.0m BGL.                                                                                                              |      |                                                        |                |                              |                                                                                                                                                                                                                                                                          |                              |            |     |                                                                                                                                                                                                                                                               |
|                                                                                                                                     |      |                                                        |                |                              | ES    ES Sample<br>●    Disturbed Sample<br>W    Water Sample<br>φ    Bulk Sample<br>U    Undisturbed Sample                                                                                                                                                             |                              |            |     |                                                                                                                                                                                                                                                               |
|                                                                                                                                                                                                                        |      |                                                        |                |                              | WLS Windowless Sampler<br>WS Window Sampler<br> Depth to water strike<br> Standing water depth |                              |            |     |                                                                                                                                                                                                                                                               |
| Job No. AD0209                                                                                                                                                                                                         |      |                                                        |                |                              |                                                                                                                                                                                                                                                                          |                              |            |     |                                                                                                                                                                                                                                                               |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |                                                        |                |                              |                                              |                              |            |     |                                                                                                                                                                                                        |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|--------------------------------------------------------|----------------|------------------------------|----------------------------------------------|------------------------------|------------|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  <b>ADVANCED INVESTIGATION SYSTEMS LTD</b><br>Tel: 07970 460 427<br>Email: enquiries@windowsampling.com<br>Web: www.windowsampling.com                                                                                                                                                                                                                                                                                        |      | <b>BOREHOLE RECORD</b><br><b>(Window Sampling)</b>     |                |                              | Borehole Number<br><br><b>WS06</b>           |                              |            |     |                                                                                                                                                                                                        |
| <b>Site:</b><br>Wimbourne Road, Barry Docks, Barry, South Glamorgan                                                                                                                                                                                                                                                                                                                                                                                                                                           |      | <b>Engineer:</b><br>Forge Environmental Management Ltd |                |                              | <b>Drilling Equipment:</b><br>Competitor 130 |                              |            |     |                                                                                                                                                                                                        |
| <b>Client:</b><br>South West Wood Products Ltd                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      | <b>Elevation mAOD:    Easting:    Northing:</b>        |                |                              | <b>Start:</b><br>07/03/2024                  | <b>Finish:</b><br>07/03/2024 |            |     |                                                                                                                                                                                                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |                                                        |                |                              | <b>Scale:</b><br>1:50                        |                              |            |     |                                                                                                                                                                                                        |
| <b>GROUND WATER</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      | <b>SAMPLING &amp; IN SITU TESTING</b>                  |                |                              | <b>STRATA RECORD</b>                         |                              |            |     |                                                                                                                                                                                                        |
| Strike                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Well | Depth (m)                                              | Depth/Type (m) | Standard Penetration Testing | Sampler / Recovery                           | Depth mBGL                   | Depth mAOD | Key | Description                                                                                                                                                                                            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |                                                        |                |                              | Broken out                                   |                              |            |     | CONCRETE                                                                                                                                                                                               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |                                                        |                |                              | 116mm WLS: 100%                              | 1                            | -1.0       |     | MADE GROUND: grey / red brown / brown clayey silty fine medium coarse SAND & GRAVEL (& COBBLES) of brick mudstone limestone concrete.                                                                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |                                                        |                |                              | 101mm WLS: 90%                               | 2                            | -2.0       |     | MADE GROUND: grey / light brown / dark grey variegated clayey silty fine medium coarse SAND & GRAVEL of fine medium coarse limestone mudstone. Locally with horizons of firm sandy gravelly silty Clay |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |                                                        |                |                              | 92mm WLS: 90%                                | 3                            | -3.0       |     |                                                                                                                                                                                                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |                                                        |                |                              | 79mm WS: 60%                                 | 4                            | -4.0       |     |                                                                                                                                                                                                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |                                                        |                |                              |                                              | 5                            | -5.0       |     |                                                                                                                                                                                                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |                                                        |                |                              |                                              | 6                            | -6.0       |     |                                                                                                                                                                                                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |                                                        |                |                              |                                              | 7                            | -7.0       |     |                                                                                                                                                                                                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |                                                        |                |                              |                                              | 8                            | -8.0       |     |                                                                                                                                                                                                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |                                                        |                |                              |                                              | 9                            | -9.0       |     |                                                                                                                                                                                                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |                                                        |                |                              |                                              | 10                           | -10.0      |     |                                                                                                                                                                                                        |
| <b>Remarks / Well Installation / Casing Details</b><br>4.00m BGL: borehole terminated - collapsing sides. 50mm ID slotted well screen installed to 3.0m BGL.                                                                                                                                                                                                                                                                                                                                                  |      |                                                        |                |                              |                                              |                              |            |     |                                                                                                                                                                                                        |
| <div>  <div> <div>ES</div> <div> <input type="checkbox"/> Disturbed Sample<br/> <input checked="" type="checkbox"/> Water Sample<br/> <input type="checkbox"/> Bulk Sample<br/> <input type="checkbox"/> Undisturbed Sample         </div> </div> <div> <div>WLS</div> <div> <div>Windowless Sampler</div> <div>Window Sampler</div> <div>Depth to water strike</div> <div>Standing water depth</div> </div> </div> </div> |      |                                                        |                |                              |                                              |                              |            |     |                                                                                                                                                                                                        |
| Job No. AD0209                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |                                                        |                |                              |                                              |                              |            |     |                                                                                                                                                                                                        |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |                                                        |                |                              |                                              |                              |            |     |                                                                                                                                                |
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|  <b>ADVANCED INVESTIGATION SYSTEMS LTD</b><br>Tel: 07970 460 427<br>Email: enquiries@windowsampling.com<br>Web: www.windowsampling.com                                                                                                                                                                                                                                                                                                                                                                             |      | <b>BOREHOLE RECORD</b><br><b>(Window Sampling)</b>     |                |                              | Borehole Number<br><br><b>WS07</b>           |                              |            |     |                                                                                                                                                |
| <b>Site:</b><br>Wimbourne Road, Barry Docks, Barry, South Glamorgan                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      | <b>Engineer:</b><br>Forge Environmental Management Ltd |                |                              | <b>Drilling Equipment:</b><br>Competitor 130 |                              |            |     |                                                                                                                                                |
| <b>Client:</b><br>South West Wood Products Ltd                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      | <b>Elevation mAOD:    Easting:    Northing:</b>        |                |                              | <b>Start:</b><br>07/03/2024                  | <b>Finish:</b><br>07/03/2024 |            |     |                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |                                                        |                |                              | <b>Scale:</b><br>1:50                        |                              |            |     |                                                                                                                                                |
| <b>GROUND WATER</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      | <b>SAMPLING &amp; IN SITU TESTING</b>                  |                |                              | <b>STRATA RECORD</b>                         |                              |            |     |                                                                                                                                                |
| Strike                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Well | Depth (m)                                              | Depth/Type (m) | Standard Penetration Testing | Sampler / Recovery                           | Depth mBGL                   | Depth mAOD | Key | Description                                                                                                                                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |                                                        |                |                              | Broken out                                   |                              |            |     | CONCRETE                                                                                                                                       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |                                                        |                |                              | 116mm WLS: 100%                              | 1                            | -1.0       |     | MADE GROUND: grey / red brown / brown clayey silty fine medium coarse SAND & GRAVEL (& COBBLES) of brick mudstone limestone concret coal.      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |                                                        |                |                              | 101mm WLS: 100%                              | 2                            | -2.0       |     | MADE GROUND: grey / light brown / dark grey variegated clayey silty fine medium coarse SAND & GRAVEL of fine medium coarse limestone mudstone. |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |                                                        |                |                              | 92mm WLS: 80%                                | 3                            | -3.0       |     | Firm to stiff becoming soft at base grey locally brown grey & dark grey silty CLAY.                                                            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |                                                        |                |                              | 70mm WS: 60%                                 | 5                            | -5.0       |     |                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |                                                        |                |                              |                                              | 6                            | -6.0       |     |                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |                                                        |                |                              |                                              | 7                            | -7.0       |     |                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |                                                        |                |                              |                                              | 8                            | -8.0       |     |                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |                                                        |                |                              |                                              | 9                            | -9.0       |     |                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |                                                        |                |                              |                                              | 10                           | -10.0      |     |                                                                                                                                                |
| <b>Remarks / Well Installation / Casing Details</b><br>50mm ID slotted well screen installed to 3.0m BGL.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      |                                                        |                |                              |                                              |                              |            |     |                                                                                                                                                |
| <div>  <div> <div>ES</div> <div> <input type="checkbox"/> ES Sample<br/> <input checked="" type="checkbox"/> Disturbed Sample<br/> W Water Sample<br/> φ Bulk Sample<br/> U Undisturbed Sample </div> </div> <div> WLS Windowless Sampler<br/> WS Window Sampler<br/>  Depth to water strike<br/>  Standing water depth </div> </div> |      |                                                        |                |                              |                                              |                              |            |     |                                                                                                                                                |
| <div> <div>Job No. AD0209</div> </div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |                                                        |                |                              |                                              |                              |            |     |                                                                                                                                                |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      |                                                        |                |                              |                                              |                              |            |     |                                                                                                                      |
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|  <b>ADVANCED INVESTIGATION SYSTEMS LTD</b><br>Tel: 07970 460 427<br>Email: enquiries@windowsampling.com<br>Web: www.windowsampling.com                                                                                                                                                                                                                                                                                                                                                                                                     |      | <b>BOREHOLE RECORD</b><br><b>(Window Sampling)</b>     |                |                              | Borehole Number<br><br><b>WS08</b>           |                              |            |     |                                                                                                                      |
| <b>Site:</b><br>Wimbourne Road, Barry Docks, Barry, South Glamorgan                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |      | <b>Engineer:</b><br>Forge Environmental Management Ltd |                |                              | <b>Drilling Equipment:</b><br>Competitor 130 |                              |            |     |                                                                                                                      |
| <b>Client:</b><br>South West Wood Products Ltd                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      | <b>Elevation mAOD:   Easting:   Northing:</b>          |                |                              | <b>Start:</b><br>06/03/2024                  | <b>Finish:</b><br>06/03/2024 |            |     |                                                                                                                      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      |                                                        |                |                              | <b>Scale:</b><br>1:50                        |                              |            |     |                                                                                                                      |
| <b>GROUND WATER</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |      | <b>SAMPLING &amp; IN SITU TESTING</b>                  |                |                              | <b>STRATA RECORD</b>                         |                              |            |     |                                                                                                                      |
| Strike                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Well | Depth (m)                                              | Depth/Type (m) | Standard Penetration Testing | Sampler / Recovery                           | Depth mBGL                   | Depth mAOD | Key | Description                                                                                                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      |                                                        |                |                              | Broken out                                   |                              |            |     | CONCRETE                                                                                                             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      |                                                        |                |                              | 116mm WLS: 100%                              | 1                            | 1.0        |     | MADE GROUND: (loose) light yellow brown silty fine medium SAND locally with soft clayey silt lenses.                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      |                                                        |                |                              | 101mm WLS: 100%                              | 2                            | 2.0        |     |                                                                                                                      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      |                                                        |                |                              | 92mm WLS: 100%                               | 3                            | 3.0        |     | MADE GROUND: (loose) light red brown silty gravelly fine medium SAND. Gravel is angular fine medium mudstone gravel. |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      |                                                        |                |                              |                                              | 4                            | 4.0        |     |                                                                                                                      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      |                                                        |                |                              | 70mm WS: 70%                                 | 5                            | 5.0        |     | Firm thinly laminated light red brown sandy silty CLAY.                                                              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      |                                                        |                |                              |                                              | 6                            | 6.0        |     |                                                                                                                      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      |                                                        |                |                              |                                              | 7                            | 7.0        |     |                                                                                                                      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      |                                                        |                |                              |                                              | 8                            | 8.0        |     |                                                                                                                      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      |                                                        |                |                              |                                              | 9                            | 9.0        |     |                                                                                                                      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      |                                                        |                |                              |                                              | 10                           | 10.0       |     |                                                                                                                      |
| <b>Remarks / Well Installation / Casing Details</b><br>50mm ID slotted well screen installed to 3.0m BGL.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      |                                                        |                |                              |                                              |                              |            |     |                                                                                                                      |
| <div>  <div> <div>ES</div> <div> <input type="checkbox"/> ES Sample<br/> <input checked="" type="checkbox"/> Disturbed Sample<br/> W Water Sample<br/> φ Bulk Sample<br/> U Undisturbed Sample </div> </div> <div> <div>WLS</div> <div> Windowless Sampler<br/> WS Window Sampler<br/>  Depth to water strike<br/>  Standing water depth </div> </div> </div> |      |                                                        |                |                              |                                              |                              |            |     |                                                                                                                      |
| <div> <div>Job No. AD0209</div> </div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |                                                        |                |                              |                                              |                              |            |     |                                                                                                                      |

## **APPENDIX F – Soil Chemical Test Results**

Forge Environmental Management Ltd  
The Forge  
Chilthorne Damer  
Yeovil  
Somerset  
BA21 3PY

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

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

## **Analytical Report Number : 24-008072**

|                             |                                   |                                                        |            |
|-----------------------------|-----------------------------------|--------------------------------------------------------|------------|
| <b>Project / Site name:</b> | Barry Docks                       | <b>Samples received on:</b>                            | 11/03/2024 |
| <b>Your job number:</b>     | LAM BAR128.D                      | <b>Samples instructed on/<br/>Analysis started on:</b> | 11/03/2024 |
| <b>Your order number:</b>   | BAR128 691                        | <b>Analysis completed by:</b>                          | 19/03/2024 |
| <b>Report Issue Number:</b> | 1                                 | <b>Report issued on:</b>                               | 22/03/2024 |
| <b>Samples Analysed:</b>    | 10 soil samples - 9 water samples |                                                        |            |



**Signed:**

Dominika Liana  
Junior Reporting Specialist  
**For & on behalf of i2 Analytical Ltd.**

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

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

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

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

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

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

Analytical Report Number: 24-008072  
Project / Site name: Barry Docks  
Your Order No: BAR128 691

| Lab Sample Number                       |  |  |  | 140460        | 140461             | 140462               | 140463        | 140464        |
|-----------------------------------------|--|--|--|---------------|--------------------|----------------------|---------------|---------------|
| Sample Reference                        |  |  |  | WS01          | WS02               | WS02                 | WS03          | WS04          |
| Sample Number                           |  |  |  | None Supplied | None Supplied      | None Supplied        | None Supplied | None Supplied |
| Depth (m)                               |  |  |  | 0.30          | 0.30-0.50          | 0.80-0.90            | 0.30-0.50     | 0.30-0.40     |
| Date Sampled                            |  |  |  | 07/03/2024    | 07/03/2024         | 07/03/2024           | 07/03/2024    | 07/03/2024    |
| Time Taken                              |  |  |  | 1140          | 1230               | 1235                 | 1350          | 1445          |
| Analytical Parameter<br>(Soil Analysis) |  |  |  | Units         | Limit of detection | Accreditation Status |               |               |

|                               |    |      |      |      |       |      |       |      |
|-------------------------------|----|------|------|------|-------|------|-------|------|
| Stone Content                 | %  | 0.1  | NONE | 55.1 | < 0.1 | 58.6 | < 0.1 | 32.4 |
| Moisture Content              | %  | 0.01 | NONE | 3.7  | 11    | 15   | 11    | 12   |
| Total mass of sample received | kg | 0.1  | NONE | 0.8  | 1.3   | 0.4  | 0.4   | 1.3  |

#### Asbestos

| Asbestos in Soil Detected/Not Detected | Type | N/A | ISO 17025 | Not-detected | Not-detected | Not-detected | Not-detected | Not-detected |
|----------------------------------------|------|-----|-----------|--------------|--------------|--------------|--------------|--------------|
| Asbestos Analyst ID                    | N/A  | N/A | N/A       | MLO          | MLO          | MLO          | MLO          | MLO          |
| Actinolite detected                    | Type | N/A | ISO 17025 | -            | -            | -            | -            | -            |
| Amosite detected                       | Type | N/A | ISO 17025 | -            | -            | -            | -            | -            |
| Anthophyllite detected                 | Type | N/A | ISO 17025 | -            | -            | -            | -            | -            |
| Chrysotile detected                    | Type | N/A | ISO 17025 | -            | -            | -            | -            | -            |
| Crocidolite detected                   | Type | N/A | ISO 17025 | -            | -            | -            | -            | -            |
| Tremolite detected                     | Type | N/A | ISO 17025 | -            | -            | -            | -            | -            |

|                                                   |      |     |           |   |   |   |   |   |
|---------------------------------------------------|------|-----|-----------|---|---|---|---|---|
| Asbestos Containing Material Types Detected (ACM) | Type | N/A | ISO 17025 | - | - | - | - | - |
|---------------------------------------------------|------|-----|-----------|---|---|---|---|---|

#### General Inorganics

|                                                                         |          |      |        |       |       |       |       |       |
|-------------------------------------------------------------------------|----------|------|--------|-------|-------|-------|-------|-------|
| pH (L099)                                                               | pH Units | N/A  | MCERTS | 7.8   | 8.5   | 10.3  | 10    | 10.8  |
| Total Cyanide                                                           | mg/kg    | 1    | MCERTS | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| Free Cyanide                                                            | mg/kg    | 1    | MCERTS | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| Water Soluble Sulphate as SO <sub>4</sub> 16hr extraction (2:1)         | mg/kg    | 2.5  | MCERTS | 100   | 220   | 570   | 640   | 520   |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1 Leachate Equivalent) | mg/l     | 1.25 | MCERTS | 51.4  | 110   | 282   | 319   | 262   |
| Sulphide                                                                | mg/kg    | 1    | MCERTS | 15    | 76    | 41    | 500   | 130   |
| Elemental Sulphur                                                       | mg/kg    | 5    | MCERTS | < 5.0 | 22    | 93    | 94    | < 5.0 |
| Organic Matter (automated)                                              | %        | 0.1  | MCERTS | 5.9   | 4     | 5.3   | 2     | 1.3   |

#### Total Phenols

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

#### Speciated PAHs

|                        |       |      |           |        |      |        |        |        |
|------------------------|-------|------|-----------|--------|------|--------|--------|--------|
| Naphthalene            | mg/kg | 0.05 | MCERTS    | 0.19   | 0.56 | 0.54   | 0.29   | < 0.05 |
| Acenaphthylene         | mg/kg | 0.05 | MCERTS    | < 0.05 | 0.16 | < 0.05 | < 0.05 | < 0.05 |
| Acenaphthene           | mg/kg | 0.05 | MCERTS    | < 0.05 | 0.39 | 0.17   | 0.1    | < 0.05 |
| Fluorene               | mg/kg | 0.05 | MCERTS    | 0.2    | 0.54 | 0.21   | 0.14   | < 0.05 |
| Phenanthrene           | mg/kg | 0.05 | MCERTS    | 0.54   | 4.1  | 1.6    | 0.62   | 0.73   |
| Anthracene             | mg/kg | 0.05 | MCERTS    | < 0.05 | 1.1  | 0.31   | 0.17   | 0.34   |
| Fluoranthene           | mg/kg | 0.05 | MCERTS    | 0.29   | 5.4  | 2.3    | 0.97   | 1.1    |
| Pyrene                 | mg/kg | 0.05 | MCERTS    | 0.34   | 4.3  | 1.9    | 0.87   | 1      |
| Benzo(a)anthracene     | mg/kg | 0.05 | MCERTS    | < 0.05 | 2.6  | 1.2    | 0.6    | 0.47   |
| Chrysene               | mg/kg | 0.05 | MCERTS    | 0.43   | 2.9  | 1.7    | 0.67   | 0.57   |
| Benzo(b)fluoranthene   | mg/kg | 0.05 | ISO 17025 | 0.36   | 2.8  | 1.6    | 0.87   | 0.57   |
| Benzo(k)fluoranthene   | mg/kg | 0.05 | ISO 17025 | 0.12   | 1.6  | 0.76   | 0.32   | 0.27   |
| Benzo(a)pyrene         | mg/kg | 0.05 | MCERTS    | < 0.05 | 2.4  | 1.2    | 0.61   | < 0.05 |
| Indeno(1,2,3-cd)pyrene | mg/kg | 0.05 | MCERTS    | 0.33   | 1.5  | 0.66   | 0.39   | 0.27   |
| Dibenz(a,h)anthracene  | mg/kg | 0.05 | MCERTS    | < 0.05 | 0.72 | 0.22   | 0.11   | < 0.05 |
| Benzo(ghi)perylene     | mg/kg | 0.05 | MCERTS    | 0.32   | 1.5  | 0.77   | 0.44   | 0.3    |

#### Total PAH

|                             |       |     |           |      |      |      |      |      |
|-----------------------------|-------|-----|-----------|------|------|------|------|------|
| Speciated Total EPA-16 PAHs | mg/kg | 0.8 | ISO 17025 | 3.11 | 32.5 | 15.2 | 7.17 | 5.61 |
|-----------------------------|-------|-----|-----------|------|------|------|------|------|

Analytical Report Number: 24-008072  
Project / Site name: Barry Docks  
Your Order No: BAR128 691

|                                         |  |  |  |               |                    |                      |               |               |
|-----------------------------------------|--|--|--|---------------|--------------------|----------------------|---------------|---------------|
| Lab Sample Number                       |  |  |  | 140460        | 140461             | 140462               | 140463        | 140464        |
| Sample Reference                        |  |  |  | WS01          | WS02               | WS02                 | WS03          | WS04          |
| Sample Number                           |  |  |  | None Supplied | None Supplied      | None Supplied        | None Supplied | None Supplied |
| Depth (m)                               |  |  |  | 0.30          | 0.30-0.50          | 0.80-0.90            | 0.30-0.50     | 0.30-0.40     |
| Date Sampled                            |  |  |  | 07/03/2024    | 07/03/2024         | 07/03/2024           | 07/03/2024    | 07/03/2024    |
| Time Taken                              |  |  |  | 1140          | 1230               | 1235                 | 1350          | 1445          |
| Analytical Parameter<br>(Soil Analysis) |  |  |  | Units         | Limit of detection | Accreditation Status |               |               |

#### Heavy Metals / Metalloids

|                                   |       |     |        |       |       |       |       |       |
|-----------------------------------|-------|-----|--------|-------|-------|-------|-------|-------|
| Arsenic (aqua regia extractable)  | mg/kg | 1   | MCERTS | 14    | 16    | 20    | 7.9   | 7.6   |
| Boron (water soluble)             | mg/kg | 0.2 | MCERTS | 0.8   | 9.4   | 6     | 2.2   | 19    |
| Cadmium (aqua regia extractable)  | mg/kg | 0.2 | MCERTS | 1     | 4.7   | 1.5   | 0.6   | 2.1   |
| Chromium (hexavalent)             | mg/kg | 1.8 | MCERTS | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 |
| Chromium (aqua regia extractable) | mg/kg | 1   | MCERTS | 54    | 38    | 27    | 25    | 340   |
| Copper (aqua regia extractable)   | mg/kg | 1   | MCERTS | 110   | 300   | 94    | 39    | 210   |
| Lead (aqua regia extractable)     | mg/kg | 1   | MCERTS | 93    | 320   | 300   | 74    | 240   |
| Mercury (aqua regia extractable)  | mg/kg | 0.3 | MCERTS | < 0.3 | 0.6   | 0.3   | < 0.3 | < 0.3 |
| Nickel (aqua regia extractable)   | mg/kg | 1   | MCERTS | 38    | 49    | 26    | 18    | 78    |
| Selenium (aqua regia extractable) | mg/kg | 1   | MCERTS | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| Zinc (aqua regia extractable)     | mg/kg | 1   | MCERTS | 330   | 780   | 560   | 220   | 1100  |

#### Petroleum Hydrocarbons

|                                             |       |      |        |         |         |         |            |            |
|---------------------------------------------|-------|------|--------|---------|---------|---------|------------|------------|
| TPHCWG - Aliphatic >C5 - C6 HS_1D_AL        | mg/kg | 0.02 | NONE   | < 0.020 | < 0.020 | < 0.020 | < 0.020    | < 0.020    |
| TPHCWG - Aliphatic >C6 - C8 HS_1D_AL        | mg/kg | 0.02 | NONE   | < 0.020 | < 0.020 | < 0.020 | < 0.020    | < 0.020    |
| TPHCWG - Aliphatic >C8 - C10 HS_1D_AL       | mg/kg | 0.05 | NONE   | < 0.050 | < 0.050 | < 0.050 | < 0.050### | < 0.050### |
| TPHCWG - Aliphatic >C10 - C12 EH_CU_1D_AL   | mg/kg | 1    | MCERTS | < 1.0   | < 1.0   | < 1.0   | < 1.0      | < 1.0      |
| TPHCWG - Aliphatic >C12 - C16 EH_CU_1D_AL   | mg/kg | 2    | MCERTS | 2.2     | 3.6     | < 2.0   | 5.9        | 9          |
| TPHCWG - Aliphatic >C16 - C21 EH_CU_1D_AL   | mg/kg | 8    | MCERTS | < 8.0   | 9.1     | < 8.0   | 19         | 26         |
| TPHCWG - Aliphatic >C21 - C35 EH_CU_1D_AL   | mg/kg | 8    | MCERTS | 66      | 55      | 50      | 230        | 230        |
| TPHCWG - Aliphatic >C5 - C35 EH_CU+HS_1D_AL | mg/kg | 10   | NONE   | 69      | 68      | 50      | 250#       | 270#       |

|                                              |       |      |        |         |         |         |         |         |
|----------------------------------------------|-------|------|--------|---------|---------|---------|---------|---------|
| TPHCWG - Aromatic >EC5 - EC7 HS_1D_AR        | mg/kg | 0.01 | NONE   | < 0.010 | 0.026   | < 0.010 | < 0.010 | < 0.010 |
| TPHCWG - Aromatic >EC7 - EC8 HS_1D_AR        | mg/kg | 0.01 | NONE   | < 0.010 | 0.013   | < 0.010 | < 0.010 | < 0.010 |
| TPHCWG - Aromatic >EC8 - EC10 HS_1D_AR       | mg/kg | 0.05 | NONE   | < 0.050 | < 0.050 | < 0.050 | < 0.050 | < 0.050 |
| TPHCWG - Aromatic >EC10 - EC12 EH_CU_1D_AR   | mg/kg | 1    | MCERTS | < 1.0   | < 1.0   | < 1.0   | < 1.0   | < 1.0   |
| TPHCWG - Aromatic >EC12 - EC16 EH_CU_1D_AR   | mg/kg | 2    | MCERTS | 2.8     | < 2.0   | < 2.0   | < 2.0   | 3.1     |
| TPHCWG - Aromatic >EC16 - EC21 EH_CU_1D_AR   | mg/kg | 10   | MCERTS | < 10    | 14      | 10      | < 10    | 18      |
| TPHCWG - Aromatic >EC21 - EC35 EH_CU_1D_AR   | mg/kg | 10   | MCERTS | 53      | 41      | 36      | 47      | 81      |
| TPHCWG - Aromatic >EC5 - EC35 EH_CU+HS_1D_AR | mg/kg | 10   | NONE   | 56      | 55      | 46      | 47      | 100     |

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Your Order No: BAR128 691

|                                         |               |                    |                         |               |               |               |               |
|-----------------------------------------|---------------|--------------------|-------------------------|---------------|---------------|---------------|---------------|
| Lab Sample Number                       | 140460        |                    |                         | 140461        | 140462        | 140463        | 140464        |
| Sample Reference                        | WS01          |                    |                         | WS02          | WS02          | WS03          | WS04          |
| Sample Number                           | None Supplied |                    |                         | None Supplied | None Supplied | None Supplied | None Supplied |
| Depth (m)                               | 0.30          |                    |                         | 0.30-0.50     | 0.80-0.90     | 0.30-0.50     | 0.30-0.40     |
| Date Sampled                            | 07/03/2024    |                    |                         | 07/03/2024    | 07/03/2024    | 07/03/2024    | 07/03/2024    |
| Time Taken                              | 1140          |                    |                         | 1230          | 1235          | 1350          | 1445          |
| Analytical Parameter<br>(Soil Analysis) | Units         | Limit of detection | Accreditation<br>Status |               |               |               |               |

#### VOCs

|                                       |       |   |           |         |         |         |       |       |
|---------------------------------------|-------|---|-----------|---------|---------|---------|-------|-------|
| Chloromethane                         | µg/kg | 5 | ISO 17025 | < 5.0## | < 5.0## | < 5.0## | < 5.0 | < 5.0 |
| Chloroethane                          | µg/kg | 5 | NONE      | < 5.0   | < 5.0   | < 5.0   | < 5.0 | < 5.0 |
| Bromomethane                          | µg/kg | 5 | ISO 17025 | < 5.0   | < 5.0   | < 5.0   | < 5.0 | < 5.0 |
| Vinyl Chloride                        | µg/kg | 5 | NONE      | < 5.0   | < 5.0   | < 5.0   | < 5.0 | < 5.0 |
| Trichlorofluoromethane                | µg/kg | 5 | NONE      | < 5.0   | < 5.0   | < 5.0   | < 5.0 | < 5.0 |
| 1,1-Dichloroethene                    | µg/kg | 5 | NONE      | < 5.0   | < 5.0   | < 5.0   | < 5.0 | < 5.0 |
| 1,1,2-Trichloro 1,2,2-Trifluoroethane | µg/kg | 5 | NONE      | < 5.0   | < 5.0   | < 5.0   | < 5.0 | < 5.0 |
| Trans 1,2-dichloroethylene            | µg/kg | 5 | NONE      | < 5.0   | < 5.0   | < 5.0   | < 5.0 | < 5.0 |
| MTBE (Methyl Tertiary Butyl Ether)    | µg/kg | 5 | NONE      | < 5.0   | < 5.0   | < 5.0   | < 5.0 | < 5.0 |
| 1,1-Dichloroethane                    | µg/kg | 5 | ISO 17025 | < 5.0   | < 5.0   | < 5.0   | < 5.0 | < 5.0 |
| 2,2-Dichloropropane                   | µg/kg | 5 | NONE      | < 5.0   | < 5.0   | < 5.0   | < 5.0 | < 5.0 |
| Chloroform                            | µg/kg | 5 | ISO 17025 | < 5.0   | < 5.0   | < 5.0   | < 5.0 | < 5.0 |
| 1,1,1-Trichloroethane                 | µg/kg | 5 | ISO 17025 | < 5.0   | < 5.0   | < 5.0   | < 5.0 | < 5.0 |
| 1,2-Dichloroethane                    | µg/kg | 5 | ISO 17025 | < 5.0   | < 5.0   | < 5.0   | < 5.0 | < 5.0 |
| 1,1-Dichloropropene                   | µg/kg | 5 | ISO 17025 | < 5.0   | < 5.0   | < 5.0   | < 5.0 | < 5.0 |
| Cis-1,2-dichloroethene                | µg/kg | 5 | ISO 17025 | < 5.0   | < 5.0   | < 5.0   | < 5.0 | < 5.0 |
| Benzene                               | µg/kg | 5 | MCERTS    | < 5.0   | 26      | < 5.0   | < 5.0 | < 5.0 |
| Carbontetrachloride                   | µg/kg | 5 | NONE      | < 5.0   | < 5.0   | < 5.0   | < 5.0 | < 5.0 |
| 1,2-Dichloropropane                   | µg/kg | 5 | ISO 17025 | < 5.0   | < 5.0   | < 5.0   | < 5.0 | < 5.0 |
| Trichloroethene                       | µg/kg | 5 | ISO 17025 | < 5.0   | < 5.0   | < 5.0   | < 5.0 | < 5.0 |
| Dibromomethane                        | µg/kg | 5 | ISO 17025 | < 5.0   | < 5.0   | < 5.0   | < 5.0 | < 5.0 |
| Bromodichloromethane                  | µg/kg | 5 | ISO 17025 | < 5.0   | < 5.0   | < 5.0   | < 5.0 | < 5.0 |
| Cis-1,3-dichloropropene               | µg/kg | 5 | ISO 17025 | < 5.0   | < 5.0   | < 5.0   | < 5.0 | < 5.0 |
| Trans-1,3-dichloropropene             | µg/kg | 5 | ISO 17025 | < 5.0   | < 5.0   | < 5.0   | < 5.0 | < 5.0 |
| Toluene                               | µg/kg | 5 | MCERTS    | < 5.0   | 13      | < 5.0   | < 5.0 | < 5.0 |
| 1,1,2-Trichloroethane                 | µg/kg | 5 | ISO 17025 | < 5.0   | < 5.0   | < 5.0   | < 5.0 | < 5.0 |
| 1,3-Dichloropropane                   | µg/kg | 5 | ISO 17025 | < 5.0   | < 5.0   | < 5.0   | < 5.0 | < 5.0 |
| Dibromochloromethane                  | µg/kg | 5 | ISO 17025 | < 5.0   | < 5.0   | < 5.0   | < 5.0 | < 5.0 |
| Tetrachloroethene                     | µg/kg | 5 | NONE      | < 5.0   | < 5.0   | < 5.0   | < 5.0 | < 5.0 |
| 1,2-Dibromoethane                     | µg/kg | 5 | ISO 17025 | < 5.0   | < 5.0   | < 5.0   | < 5.0 | < 5.0 |
| Chlorobenzene                         | µg/kg | 5 | ISO 17025 | < 5.0   | < 5.0   | < 5.0   | < 5.0 | < 5.0 |
| 1,1,1,2-Tetrachloroethane             | µg/kg | 5 | ISO 17025 | < 5.0   | < 5.0   | < 5.0   | < 5.0 | < 5.0 |
| Ethylbenzene                          | µg/kg | 5 | MCERTS    | < 5.0   | < 5.0   | < 5.0   | < 5.0 | < 5.0 |
| p & m-Xylene                          | µg/kg | 5 | MCERTS    | < 5.0   | < 5.0   | < 5.0   | < 5.0 | < 5.0 |
| Styrene                               | µg/kg | 5 | ISO 17025 | < 5.0   | < 5.0   | < 5.0   | < 5.0 | < 5.0 |
| Bromoform                             | µg/kg | 5 | NONE      | < 5.0   | < 5.0   | < 5.0   | < 5.0 | < 5.0 |
| o-Xylene                              | µg/kg | 5 | MCERTS    | < 5.0   | < 5.0   | < 5.0   | < 5.0 | < 5.0 |
| Isopropylbenzene                      | µg/kg | 5 | ISO 17025 | < 5.0   | < 5.0   | < 5.0   | < 5.0 | < 5.0 |
| 1,1,2,2-Tetrachloroethane             | µg/kg | 5 | NONE      | < 5.0   | < 5.0   | < 5.0   | < 5.0 | < 5.0 |
| Bromobenzene                          | µg/kg | 5 | NONE      | < 5.0   | < 5.0   | < 5.0   | < 5.0 | < 5.0 |
| n-Propylbenzene                       | µg/kg | 5 | ISO 17025 | < 5.0   | < 5.0   | < 5.0   | < 5.0 | < 5.0 |
| 2-Chlorotoluene                       | µg/kg | 5 | ISO 17025 | < 5.0   | < 5.0   | < 5.0   | < 5.0 | < 5.0 |
| 4-Chlorotoluene                       | µg/kg | 5 | ISO 17025 | < 5.0   | < 5.0   | < 5.0   | < 5.0 | < 5.0 |
| 1,3,5-Trimethylbenzene                | µg/kg | 5 | ISO 17025 | < 5.0   | < 5.0   | < 5.0   | < 5.0 | < 5.0 |
| tert-Butylbenzene                     | µg/kg | 5 | ISO 17025 | < 5.0   | < 5.0   | < 5.0   | < 5.0 | < 5.0 |
| 1,2,4-Trimethylbenzene                | µg/kg | 5 | ISO 17025 | < 5.0   | < 5.0   | < 5.0   | < 5.0 | < 5.0 |
| sec-Butylbenzene                      | µg/kg | 5 | ISO 17025 | < 5.0   | < 5.0   | < 5.0   | < 5.0 | < 5.0 |
| 1,3-Dichlorobenzene                   | µg/kg | 5 | ISO 17025 | < 5.0   | < 5.0   | < 5.0   | < 5.0 | < 5.0 |
| p-Isopropyltoluene                    | µg/kg | 5 | ISO 17025 | < 5.0   | < 5.0   | < 5.0   | < 5.0 | < 5.0 |
| 1,4-Dichlorobenzene                   | µg/kg | 5 | ISO 17025 | < 5.0   | < 5.0   | < 5.0   | < 5.0 | < 5.0 |
| 1,2-Dichlorobenzene                   | µg/kg | 5 | ISO 17025 | < 5.0   | < 5.0   | < 5.0   | < 5.0 | < 5.0 |

Analytical Report Number: 24-008072

Project / Site name: Barry Docks

Your Order No: BAR128 691

| Lab Sample Number                       |       |                    |                         | 140460        | 140461        | 140462        | 140463        | 140464        |
|-----------------------------------------|-------|--------------------|-------------------------|---------------|---------------|---------------|---------------|---------------|
| Sample Reference                        |       |                    |                         | WS01          | WS02          | WS02          | WS03          | WS04          |
| Sample Number                           |       |                    |                         | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Depth (m)                               |       |                    |                         | 0.30          | 0.30-0.50     | 0.80-0.90     | 0.30-0.50     | 0.30-0.40     |
| Date Sampled                            |       |                    |                         | 07/03/2024    | 07/03/2024    | 07/03/2024    | 07/03/2024    | 07/03/2024    |
| Time Taken                              |       |                    |                         | 1140          | 1230          | 1235          | 1350          | 1445          |
| Analytical Parameter<br>(Soil Analysis) | Units | Limit of detection | Accreditation<br>Status |               |               |               |               |               |
| Butylbenzene                            | µg/kg | 5                  | NONE                    | < 5.0         | < 5.0         | < 5.0         | < 5.0         | < 5.0         |
| 1,2-Dibromo-3-chloropropane             | µg/kg | 5                  | ISO 17025               | < 5.0         | < 5.0         | < 5.0         | < 5.0         | < 5.0         |
| 1,2,4-Trichlorobenzene                  | µg/kg | 5                  | ISO 17025               | < 5.0         | < 5.0         | < 5.0         | < 5.0         | < 5.0         |
| Hexachlorobutadiene                     | µg/kg | 5                  | NONE                    | < 5.0         | < 5.0         | < 5.0         | < 5.0         | < 5.0         |
| 1,2,3-Trichlorobenzene                  | µg/kg | 5                  | ISO 17025               | < 5.0         | < 5.0         | < 5.0         | < 5.0         | < 5.0         |

#### SVOCs

|                             |       |      |           |        |        |        |        |        |
|-----------------------------|-------|------|-----------|--------|--------|--------|--------|--------|
| Aniline                     | mg/kg | 0.1  | NONE      | < 0.1  | < 0.1  | < 0.1  | < 0.1  | < 0.1  |
| Phenol                      | mg/kg | 0.2  | ISO 17025 | < 0.2  | < 0.2  | < 0.2  | < 0.2  | < 0.2  |
| 2-Chlorophenol              | mg/kg | 0.1  | MCERTS    | < 0.1  | < 0.1  | < 0.1  | < 0.1  | < 0.1  |
| Bis(2-chloroethyl)ether     | mg/kg | 0.2  | MCERTS    | < 0.2  | < 0.2  | < 0.2  | < 0.2  | < 0.2  |
| 1,3-Dichlorobenzene         | mg/kg | 0.2  | MCERTS    | < 0.2  | < 0.2  | < 0.2  | < 0.2  | < 0.2  |
| 1,2-Dichlorobenzene         | mg/kg | 0.1  | MCERTS    | < 0.1  | < 0.1  | < 0.1  | < 0.1  | < 0.1  |
| 1,4-Dichlorobenzene         | mg/kg | 0.2  | MCERTS    | < 0.2  | < 0.2  | < 0.2  | < 0.2  | < 0.2  |
| Bis(2-chloroisopropyl)ether | mg/kg | 0.1  | MCERTS    | < 0.1  | < 0.1  | < 0.1  | < 0.1  | < 0.1  |
| 2-Methylphenol              | mg/kg | 0.3  | MCERTS    | < 0.3  | < 0.3  | < 0.3  | < 0.3  | < 0.3  |
| Hexachloroethane            | mg/kg | 0.05 | ISO 17025 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Nitrobenzene                | mg/kg | 0.3  | MCERTS    | < 0.3  | < 0.3  | < 0.3  | < 0.3  | < 0.3  |
| 4-Methylphenol              | mg/kg | 0.2  | NONE      | < 0.2  | < 0.2  | < 0.2  | < 0.2  | < 0.2  |
| Isophorone                  | mg/kg | 0.2  | MCERTS    | < 0.2  | < 0.2  | < 0.2  | < 0.2  | < 0.2  |
| 2-Nitrophenol               | mg/kg | 0.3  | NONE      | < 0.3  | < 0.3  | < 0.3  | < 0.3  | < 0.3  |
| 2,4-Dimethylphenol          | mg/kg | 0.3  | MCERTS    | < 0.3  | < 0.3  | < 0.3  | < 0.3  | < 0.3  |
| Bis(2-chloroethoxy)methane  | mg/kg | 0.3  | MCERTS    | < 0.3  | < 0.3  | < 0.3  | < 0.3  | < 0.3  |
| 1,2,4-Trichlorobenzene      | mg/kg | 0.3  | MCERTS    | < 0.3  | < 0.3  | < 0.3  | < 0.3  | < 0.3  |
| 2,4-Dichlorophenol          | mg/kg | 0.3  | MCERTS    | < 0.3  | < 0.3  | < 0.3  | < 0.3  | < 0.3  |
| 4-Chloroaniline             | mg/kg | 0.1  | NONE      | < 0.1  | < 0.1  | < 0.1  | < 0.1  | < 0.1  |
| Hexachlorobutadiene         | mg/kg | 0.1  | MCERTS    | < 0.1  | < 0.1  | < 0.1  | < 0.1  | < 0.1  |
| 4-Chloro-3-methylphenol     | mg/kg | 0.1  | NONE      | < 0.1  | < 0.1  | < 0.1  | < 0.1  | < 0.1  |
| 2,4,6-Trichlorophenol       | mg/kg | 0.1  | NONE      | < 0.1  | < 0.1  | < 0.1  | < 0.1  | < 0.1  |
| 2,4,5-Trichlorophenol       | mg/kg | 0.2  | NONE      | < 0.2  | < 0.2  | < 0.2  | < 0.2  | < 0.2  |
| 2-Methylnaphthalene         | mg/kg | 0.1  | NONE      | 0.5    | 0.6    | 0.5    | 0.2    | < 0.1  |
| 2-Chloronaphthalene         | mg/kg | 0.1  | MCERTS    | < 0.1  | < 0.1  | < 0.1  | < 0.1  | < 0.1  |
| Dimethylphthalate           | mg/kg | 0.1  | MCERTS    | < 0.1  | < 0.1  | < 0.1  | < 0.1  | < 0.1  |
| 2,6-Dinitrotoluene          | mg/kg | 0.1  | NONE      | < 0.1  | < 0.1  | < 0.1  | < 0.1  | < 0.1  |
| 2,4-Dinitrotoluene          | mg/kg | 0.2  | NONE      | < 0.2  | < 0.2  | < 0.2  | < 0.2  | < 0.2  |
| Dibenzofuran                | mg/kg | 0.2  | MCERTS    | < 0.2  | 0.3    | < 0.2  | < 0.2  | < 0.2  |
| 4-Chlorophenyl phenyl ether | mg/kg | 0.3  | MCERTS    | < 0.3  | < 0.3  | < 0.3  | < 0.3  | < 0.3  |
| Diethyl phthalate           | mg/kg | 0.2  | MCERTS    | < 0.2  | < 0.2  | < 0.2  | < 0.2  | < 0.2  |
| 4-Nitroaniline              | mg/kg | 0.2  | NONE      | < 0.2  | < 0.2  | < 0.2  | < 0.2  | < 0.2  |
| Azobenzene                  | mg/kg | 0.3  | NONE      | < 0.3  | < 0.3  | < 0.3  | < 0.3  | < 0.3  |
| Bromophenyl phenyl ether    | mg/kg | 0.2  | MCERTS    | < 0.2  | < 0.2  | < 0.2  | < 0.2  | < 0.2  |
| Hexachlorobenzene           | mg/kg | 0.3  | MCERTS    | < 0.30 | < 0.30 | < 0.30 | < 0.30 | < 0.30 |
| Carbazole                   | mg/kg | 0.3  | MCERTS    | < 0.3  | < 0.3  | < 0.3  | < 0.3  | < 0.3  |
| Dibutyl phthalate           | mg/kg | 0.2  | NONE      | < 0.2  | < 0.2  | < 0.2  | < 0.2  | < 0.2  |
| Anthraquinone               | mg/kg | 0.3  | NONE      | < 0.3  | < 0.3  | < 0.3  | < 0.3  | < 0.3  |
| Butyl benzyl phthalate      | mg/kg | 0.3  | NONE      | < 0.3  | 0.6    | < 0.3  | < 0.3  | < 0.3  |

Analytical Report Number: 24-008072

Project / Site name: Barry Docks

Your Order No: BAR128 691

|                                         |  |  |  |               |                    |                      |               |               |
|-----------------------------------------|--|--|--|---------------|--------------------|----------------------|---------------|---------------|
| Lab Sample Number                       |  |  |  | 140460        | 140461             | 140462               | 140463        | 140464        |
| Sample Reference                        |  |  |  | WS01          | WS02               | WS02                 | WS03          | WS04          |
| Sample Number                           |  |  |  | None Supplied | None Supplied      | None Supplied        | None Supplied | None Supplied |
| Depth (m)                               |  |  |  | 0.30          | 0.30-0.50          | 0.80-0.90            | 0.30-0.50     | 0.30-0.40     |
| Date Sampled                            |  |  |  | 07/03/2024    | 07/03/2024         | 07/03/2024           | 07/03/2024    | 07/03/2024    |
| Time Taken                              |  |  |  | 1140          | 1230               | 1235                 | 1350          | 1445          |
| Analytical Parameter<br>(Soil Analysis) |  |  |  | Units         | Limit of detection | Accreditation Status |               |               |

**PCBs by GC-MS**

|                  |       |       |        |         |       |   |         |       |
|------------------|-------|-------|--------|---------|-------|---|---------|-------|
| PCB Congener 28  | mg/kg | 0.001 | MCERTS | < 0.001 | 0.007 | - | < 0.001 | 0.037 |
| PCB Congener 52  | mg/kg | 0.001 | MCERTS | < 0.001 | 0.01  | - | 0.004   | 0.012 |
| PCB Congener 101 | mg/kg | 0.001 | MCERTS | < 0.001 | 0.023 | - | 0.007   | 0.009 |
| PCB Congener 118 | mg/kg | 0.001 | MCERTS | < 0.001 | 0.015 | - | 0.005   | 0.007 |
| PCB Congener 138 | mg/kg | 0.001 | MCERTS | < 0.001 | 0.028 | - | 0.008   | 0.01  |
| PCB Congener 153 | mg/kg | 0.001 | MCERTS | < 0.001 | 0.021 | - | 0.007   | 0.006 |
| PCB Congener 180 | mg/kg | 0.001 | MCERTS | < 0.001 | 0.011 | - | < 0.001 | 0.003 |
| Total PCBs       | mg/kg | 0.007 | MCERTS | < 0.007 | 0.12  | - | 0.03    | 0.084 |

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

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Project / Site name: Barry Docks  
Your Order No: BAR128 691

| Lab Sample Number                       |  |  |  | 140465        | 140466             | 140467               | 140468        | 140469        |
|-----------------------------------------|--|--|--|---------------|--------------------|----------------------|---------------|---------------|
| Sample Reference                        |  |  |  | WS05          | WS06               | WS06                 | WS07          | WS08          |
| Sample Number                           |  |  |  | None Supplied | None Supplied      | None Supplied        | None Supplied | None Supplied |
| Depth (m)                               |  |  |  | 0.10-0.20     | 0.30-0.80          | 1.60-1.90            | 0.30-0.70     | 0.20-0.70     |
| Date Sampled                            |  |  |  | 07/03/2024    | 07/03/2024         | 07/03/2024           | 07/03/2024    | 07/03/2024    |
| Time Taken                              |  |  |  | 1300          | None Supplied      | None Supplied        | None Supplied | None Supplied |
| Analytical Parameter<br>(Soil Analysis) |  |  |  | Units         | Limit of detection | Accreditation Status |               |               |

|                               |    |      |      |       |      |     |      |       |
|-------------------------------|----|------|------|-------|------|-----|------|-------|
| Stone Content                 | %  | 0.1  | NONE | < 0.1 | 51.9 | 69  | 55.5 | < 0.1 |
| Moisture Content              | %  | 0.01 | NONE | 2.1   | 9.9  | 6.7 | 5.8  | 12    |
| Total mass of sample received | kg | 0.1  | NONE | 1.3   | 1.3  | 1.3 | 0.3  | 1.3   |

#### Asbestos

| Asbestos in Soil Detected/Not Detected | Type | N/A | ISO 17025 | Not-detected | Detected     | Not-detected | Not-detected | Not-detected |
|----------------------------------------|------|-----|-----------|--------------|--------------|--------------|--------------|--------------|
| Asbestos Analyst ID                    | N/A  | N/A | N/A       | MLO          | MLO          | MLO          | MLO          | MLO          |
| Actinolite detected                    | Type | N/A | ISO 17025 | -            | Not-detected | -            | -            | -            |
| Amosite detected                       | Type | N/A | ISO 17025 | -            | Not-detected | -            | -            | -            |
| Anthophyllite detected                 | Type | N/A | ISO 17025 | -            | Not-detected | -            | -            | -            |
| Chrysotile detected                    | Type | N/A | ISO 17025 | -            | Detected     | -            | -            | -            |
| Crocidolite detected                   | Type | N/A | ISO 17025 | -            | Not-detected | -            | -            | -            |
| Tremolite detected                     | Type | N/A | ISO 17025 | -            | Not-detected | -            | -            | -            |

|                                                   |      |     |           |   |                      |   |   |   |
|---------------------------------------------------|------|-----|-----------|---|----------------------|---|---|---|
| Asbestos Containing Material Types Detected (ACM) | Type | N/A | ISO 17025 | - | Loose Fibrous Debris | - | - | - |
|---------------------------------------------------|------|-----|-----------|---|----------------------|---|---|---|

#### General Inorganics

|                                                                         |          |      |        |       |       |       |       |       |
|-------------------------------------------------------------------------|----------|------|--------|-------|-------|-------|-------|-------|
| pH (L099)                                                               | pH Units | N/A  | MCERTS | 10.5  | 9.3   | 9.2   | 10.6  | 8.3   |
| Total Cyanide                                                           | mg/kg    | 1    | MCERTS | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| Free Cyanide                                                            | mg/kg    | 1    | MCERTS | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| Water Soluble Sulphate as SO <sub>4</sub> 16hr extraction (2:1)         | mg/kg    | 2.5  | MCERTS | 380   | 190   | 140   | 320   | 39    |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1 Leachate Equivalent) | mg/l     | 1.25 | MCERTS | 191   | 92.8  | 71.4  | 159   | 19.4  |
| Sulphide                                                                | mg/kg    | 1    | MCERTS | 92    | 5.1   | < 1.0 | 72    | 5     |
| Elemental Sulphur                                                       | mg/kg    | 5    | MCERTS | 10    | < 5.0 | < 5.0 | < 5.0 | < 5.0 |
| Organic Matter (automated)                                              | %        | 0.1  | MCERTS | 3     | 2     | 0.7   | 2.6   | 0.9   |

#### Total Phenols

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

#### Speciated PAHs

|                        |       |      |           |        |        |        |      |        |
|------------------------|-------|------|-----------|--------|--------|--------|------|--------|
| Naphthalene            | mg/kg | 0.05 | MCERTS    | < 0.05 | 0.21   | < 0.05 | 7.4  | 0.24   |
| Acenaphthylene         | mg/kg | 0.05 | MCERTS    | < 0.05 | 0.13   | < 0.05 | 1    | < 0.05 |
| Acenaphthene           | mg/kg | 0.05 | MCERTS    | 0.52   | 0.57   | < 0.05 | 0.47 | < 0.05 |
| Fluorene               | mg/kg | 0.05 | MCERTS    | 0.51   | 0.43   | < 0.05 | 0.74 | < 0.05 |
| Phenanthrene           | mg/kg | 0.05 | MCERTS    | 1.6    | 5.4    | 0.14   | 3    | 0.26   |
| Anthracene             | mg/kg | 0.05 | MCERTS    | < 0.05 | 1.5    | < 0.05 | 1.1  | 0.07   |
| Fluoranthene           | mg/kg | 0.05 | MCERTS    | 2.8    | 12     | 0.09   | 6.8  | 0.19   |
| Pyrene                 | mg/kg | 0.05 | MCERTS    | 2.7    | 11     | 0.07   | 5.2  | 0.14   |
| Benzo(a)anthracene     | mg/kg | 0.05 | MCERTS    | 1.8    | 6.5    | < 0.05 | 4.7  | < 0.05 |
| Chrysene               | mg/kg | 0.05 | MCERTS    | 2.2    | 6.3    | < 0.05 | 4.9  | 0.09   |
| Benzo(b)fluoranthene   | mg/kg | 0.05 | ISO 17025 | 3      | 6.6    | < 0.05 | 5.7  | < 0.05 |
| Benzo(k)fluoranthene   | mg/kg | 0.05 | ISO 17025 | 1.5    | 3.6    | < 0.05 | 2.9  | < 0.05 |
| Benzo(a)pyrene         | mg/kg | 0.05 | MCERTS    | 2.5    | 7.1    | < 0.05 | 4.6  | < 0.05 |
| Indeno(1,2,3-cd)pyrene | mg/kg | 0.05 | MCERTS    | 1.8    | 4      | < 0.05 | 2.7  | < 0.05 |
| Dibenz(a,h)anthracene  | mg/kg | 0.05 | MCERTS    | < 0.05 | < 0.05 | < 0.05 | 1.1  | < 0.05 |
| Benzo(ghi)perylene     | mg/kg | 0.05 | MCERTS    | 1.9    | 4.2    | < 0.05 | 2.8  | < 0.05 |

#### Total PAH

|                             |       |     |           |      |      |        |      |      |
|-----------------------------|-------|-----|-----------|------|------|--------|------|------|
| Speciated Total EPA-16 PAHs | mg/kg | 0.8 | ISO 17025 | 22.7 | 69.6 | < 0.80 | 55.1 | 0.99 |
|-----------------------------|-------|-----|-----------|------|------|--------|------|------|

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Your Order No: BAR128 691

|                                         |               |                    |                         |               |               |
|-----------------------------------------|---------------|--------------------|-------------------------|---------------|---------------|
| Lab Sample Number                       | 140465        | 140466             | 140467                  | 140468        | 140469        |
| Sample Reference                        | WS05          | WS06               | WS06                    | WS07          | WS08          |
| Sample Number                           | None Supplied | None Supplied      | None Supplied           | None Supplied | None Supplied |
| Depth (m)                               | 0.10-0.20     | 0.30-0.80          | 1.60-1.90               | 0.30-0.70     | 0.20-0.70     |
| Date Sampled                            | 07/03/2024    | 07/03/2024         | 07/03/2024              | 07/03/2024    | 07/03/2024    |
| Time Taken                              | 1300          | None Supplied      | None Supplied           | None Supplied | None Supplied |
| Analytical Parameter<br>(Soil Analysis) | Units         | Limit of detection | Accreditation<br>Status |               |               |

#### Heavy Metals / Metalloids

|                                   |       |     |        |       |       |       |       |       |
|-----------------------------------|-------|-----|--------|-------|-------|-------|-------|-------|
| Arsenic (aqua regia extractable)  | mg/kg | 1   | MCERTS | 7.4   | 15    | 4.8   | 8.3   | 11    |
| Boron (water soluble)             | mg/kg | 0.2 | MCERTS | 4     | 0.6   | 2     | 1.2   | 0.5   |
| Cadmium (aqua regia extractable)  | mg/kg | 0.2 | MCERTS | 1.5   | < 0.2 | < 0.2 | 0.6   | < 0.2 |
| Chromium (hexavalent)             | mg/kg | 1.8 | MCERTS | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 |
| Chromium (aqua regia extractable) | mg/kg | 1   | MCERTS | 390   | 36    | 20    | 27    | 14    |
| Copper (aqua regia extractable)   | mg/kg | 1   | MCERTS | 380   | 37    | 33    | 120   | 22    |
| Lead (aqua regia extractable)     | mg/kg | 1   | MCERTS | 220   | 97    | 14    | 110   | 18    |
| Mercury (aqua regia extractable)  | mg/kg | 0.3 | MCERTS | < 0.3 | < 0.3 | < 0.3 | < 0.3 | < 0.3 |
| Nickel (aqua regia extractable)   | mg/kg | 1   | MCERTS | 32    | 21    | 18    | 19    | 13    |
| Selenium (aqua regia extractable) | mg/kg | 1   | MCERTS | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| Zinc (aqua regia extractable)     | mg/kg | 1   | MCERTS | 700   | 160   | 54    | 220   | 43    |

#### Petroleum Hydrocarbons

|                                             |       |      |        |            |         |         |         |         |
|---------------------------------------------|-------|------|--------|------------|---------|---------|---------|---------|
| TPHCWG - Aliphatic >C5 - C6 HS_1D_AL        | mg/kg | 0.02 | NONE   | < 0.020    | < 0.020 | < 0.020 | < 0.020 | < 0.020 |
| TPHCWG - Aliphatic >C6 - C8 HS_1D_AL        | mg/kg | 0.02 | NONE   | < 0.020    | < 0.020 | < 0.020 | < 0.020 | < 0.020 |
| TPHCWG - Aliphatic >C8 - C10 HS_1D_AL       | mg/kg | 0.05 | NONE   | < 0.050### | < 0.050 | < 0.050 | < 0.050 | < 0.050 |
| TPHCWG - Aliphatic >C10 - C12 EH_CU_1D_AL   | mg/kg | 1    | MCERTS | 4.5        | < 1.0   | < 1.0   | 4       | < 1.0   |
| TPHCWG - Aliphatic >C12 - C16 EH_CU_1D_AL   | mg/kg | 2    | MCERTS | 150        | 2.3     | < 2.0   | 15      | < 2.0   |
| TPHCWG - Aliphatic >C16 - C21 EH_CU_1D_AL   | mg/kg | 8    | MCERTS | 290        | 8.2     | < 8.0   | < 8.0   | < 8.0   |
| TPHCWG - Aliphatic >C21 - C35 EH_CU_1D_AL   | mg/kg | 8    | MCERTS | 510        | 23      | < 8.0   | 39      | < 8.0   |
| TPHCWG - Aliphatic >C5 - C35 EH_CU+HS_1D_AL | mg/kg | 10   | NONE   | 960#       | 33      | < 10    | 58      | < 10    |

|                                              |       |      |        |         |         |         |         |         |
|----------------------------------------------|-------|------|--------|---------|---------|---------|---------|---------|
| TPHCWG - Aromatic >EC5 - EC7 HS_1D_AR        | mg/kg | 0.01 | NONE   | < 0.010 | < 0.010 | < 0.010 | < 0.010 | 0.014   |
| TPHCWG - Aromatic >EC7 - EC8 HS_1D_AR        | mg/kg | 0.01 | NONE   | < 0.010 | < 0.010 | < 0.010 | < 0.010 | < 0.010 |
| TPHCWG - Aromatic >EC8 - EC10 HS_1D_AR       | mg/kg | 0.05 | NONE   | < 0.050 | < 0.050 | < 0.050 | < 0.050 | < 0.050 |
| TPHCWG - Aromatic >EC10 - EC12 EH_CU_1D_AR   | mg/kg | 1    | MCERTS | 4.2     | < 1.0   | < 1.0   | 5.1     | < 1.0   |
| TPHCWG - Aromatic >EC12 - EC16 EH_CU_1D_AR   | mg/kg | 2    | MCERTS | 46      | 3.7     | < 2.0   | 13      | < 2.0   |
| TPHCWG - Aromatic >EC16 - EC21 EH_CU_1D_AR   | mg/kg | 10   | MCERTS | 89      | 29      | < 10    | 17      | < 10    |
| TPHCWG - Aromatic >EC21 - EC35 EH_CU_1D_AR   | mg/kg | 10   | MCERTS | 160     | 47      | < 10    | 58      | < 10    |
| TPHCWG - Aromatic >EC5 - EC35 EH_CU+HS_1D_AR | mg/kg | 10   | NONE   | 300     | 80      | < 10    | 93      | < 10    |

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|                                         |               |                    |                      |               |               |
|-----------------------------------------|---------------|--------------------|----------------------|---------------|---------------|
| Lab Sample Number                       | 140465        | 140466             | 140467               | 140468        | 140469        |
| Sample Reference                        | WS05          | WS06               | WS06                 | WS07          | WS08          |
| Sample Number                           | None Supplied | None Supplied      | None Supplied        | None Supplied | None Supplied |
| Depth (m)                               | 0.10-0.20     | 0.30-0.80          | 1.60-1.90            | 0.30-0.70     | 0.20-0.70     |
| Date Sampled                            | 07/03/2024    | 07/03/2024         | 07/03/2024           | 07/03/2024    | 07/03/2024    |
| Time Taken                              | 1300          | None Supplied      | None Supplied        | None Supplied | None Supplied |
| Analytical Parameter<br>(Soil Analysis) | Units         | Limit of detection | Accreditation Status |               |               |

#### VOCs

|                                       |       |   |           |       |       |       |       |       |
|---------------------------------------|-------|---|-----------|-------|-------|-------|-------|-------|
| Chloromethane                         | µg/kg | 5 | ISO 17025 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 |
| Chloroethane                          | µg/kg | 5 | NONE      | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 |
| Bromomethane                          | µg/kg | 5 | ISO 17025 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 |
| Vinyl Chloride                        | µg/kg | 5 | NONE      | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 |
| Trichlorofluoromethane                | µg/kg | 5 | NONE      | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 |
| 1,1-Dichloroethene                    | µg/kg | 5 | NONE      | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 |
| 1,1,2-Trichloro 1,2,2-Trifluoroethane | µg/kg | 5 | NONE      | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 |
| Trans 1,2-dichloroethylene            | µg/kg | 5 | NONE      | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 |
| MTBE (Methyl Tertiary Butyl Ether)    | µg/kg | 5 | NONE      | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 |
| 1,1-Dichloroethane                    | µg/kg | 5 | ISO 17025 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 |
| 2,2-Dichloropropane                   | µg/kg | 5 | NONE      | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 |
| Chloroform                            | µg/kg | 5 | ISO 17025 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 |
| 1,1,1-Trichloroethane                 | µg/kg | 5 | ISO 17025 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 |
| 1,2-Dichloroethane                    | µg/kg | 5 | ISO 17025 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 |
| 1,1-Dichloropropene                   | µg/kg | 5 | ISO 17025 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 |
| Cis-1,2-dichloroethene                | µg/kg | 5 | ISO 17025 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 |
| Benzene                               | µg/kg | 5 | MCERTS    | < 5.0 | < 5.0 | < 5.0 | < 5.0 | 16    |
| Carbontetrachloride                   | µg/kg | 5 | NONE      | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 |
| 1,2-Dichloropropane                   | µg/kg | 5 | ISO 17025 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 |
| Trichloroethene                       | µg/kg | 5 | ISO 17025 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 |
| Dibromomethane                        | µg/kg | 5 | ISO 17025 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 |
| Bromodichloromethane                  | µg/kg | 5 | ISO 17025 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 |
| Cis-1,3-dichloropropene               | µg/kg | 5 | ISO 17025 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 |
| Trans-1,3-dichloropropene             | µg/kg | 5 | ISO 17025 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 |
| Toluene                               | µg/kg | 5 | MCERTS    | < 5.0 | < 5.0 | < 5.0 | < 5.0 | 9.3   |
| 1,1,2-Trichloroethane                 | µg/kg | 5 | ISO 17025 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 |
| 1,3-Dichloropropane                   | µg/kg | 5 | ISO 17025 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 |
| Dibromochloromethane                  | µg/kg | 5 | ISO 17025 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 |
| Tetrachloroethene                     | µg/kg | 5 | NONE      | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 |
| 1,2-Dibromoethane                     | µg/kg | 5 | ISO 17025 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 |
| Chlorobenzene                         | µg/kg | 5 | ISO 17025 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 |
| 1,1,1,2-Tetrachloroethane             | µg/kg | 5 | ISO 17025 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 |
| Ethylbenzene                          | µg/kg | 5 | MCERTS    | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 |
| p & m-Xylene                          | µg/kg | 5 | MCERTS    | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 |
| Styrene                               | µg/kg | 5 | ISO 17025 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 |
| Bromoform                             | µg/kg | 5 | NONE      | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 |
| o-Xylene                              | µg/kg | 5 | MCERTS    | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 |
| Isopropylbenzene                      | µg/kg | 5 | ISO 17025 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 |
| 1,1,2,2-Tetrachloroethane             | µg/kg | 5 | NONE      | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 |
| Bromobenzene                          | µg/kg | 5 | NONE      | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 |
| n-Propylbenzene                       | µg/kg | 5 | ISO 17025 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 |
| 2-Chlorotoluene                       | µg/kg | 5 | ISO 17025 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 |
| 4-Chlorotoluene                       | µg/kg | 5 | ISO 17025 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 |
| 1,3,5-Trimethylbenzene                | µg/kg | 5 | ISO 17025 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 |
| tert-Butylbenzene                     | µg/kg | 5 | ISO 17025 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 |
| 1,2,4-Trimethylbenzene                | µg/kg | 5 | ISO 17025 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 |
| sec-Butylbenzene                      | µg/kg | 5 | ISO 17025 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 |
| 1,3-Dichlorobenzene                   | µg/kg | 5 | ISO 17025 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 |
| p-Isopropyltoluene                    | µg/kg | 5 | ISO 17025 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 |
| 1,4-Dichlorobenzene                   | µg/kg | 5 | ISO 17025 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 |
| 1,2-Dichlorobenzene                   | µg/kg | 5 | ISO 17025 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 |

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Project / Site name: Barry Docks

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| Lab Sample Number                       |       |                    |                         | 140465        | 140466        | 140467        | 140468        | 140469        |
|-----------------------------------------|-------|--------------------|-------------------------|---------------|---------------|---------------|---------------|---------------|
| Sample Reference                        |       |                    |                         | WS05          | WS06          | WS06          | WS07          | WS08          |
| Sample Number                           |       |                    |                         | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Depth (m)                               |       |                    |                         | 0.10-0.20     | 0.30-0.80     | 1.60-1.90     | 0.30-0.70     | 0.20-0.70     |
| Date Sampled                            |       |                    |                         | 07/03/2024    | 07/03/2024    | 07/03/2024    | 07/03/2024    | 07/03/2024    |
| Time Taken                              |       |                    |                         | 1300          | None Supplied | None Supplied | None Supplied | None Supplied |
| Analytical Parameter<br>(Soil Analysis) | Units | Limit of detection | Accreditation<br>Status |               |               |               |               |               |
| Butylbenzene                            | µg/kg | 5                  | NONE                    | < 5.0         | < 5.0         | < 5.0         | < 5.0         | < 5.0         |
| 1,2-Dibromo-3-chloropropane             | µg/kg | 5                  | ISO 17025               | < 5.0         | < 5.0         | < 5.0         | < 5.0         | < 5.0         |
| 1,2,4-Trichlorobenzene                  | µg/kg | 5                  | ISO 17025               | < 5.0         | < 5.0         | < 5.0         | < 5.0         | < 5.0         |
| Hexachlorobutadiene                     | µg/kg | 5                  | NONE                    | < 5.0         | < 5.0         | < 5.0         | < 5.0         | < 5.0         |
| 1,2,3-Trichlorobenzene                  | µg/kg | 5                  | ISO 17025               | < 5.0         | < 5.0         | < 5.0         | < 5.0         | < 5.0         |

#### SVOCs

|                             |       |      |           |        |        |        |        |        |
|-----------------------------|-------|------|-----------|--------|--------|--------|--------|--------|
| Aniline                     | mg/kg | 0.1  | NONE      | < 0.1  | < 0.1  | < 0.1  | < 0.1  | < 0.1  |
| Phenol                      | mg/kg | 0.2  | ISO 17025 | < 0.2  | < 0.2  | < 0.2  | < 0.2  | < 0.2  |
| 2-Chlorophenol              | mg/kg | 0.1  | MCERTS    | < 0.1  | < 0.1  | < 0.1  | < 0.1  | < 0.1  |
| Bis(2-chloroethyl)ether     | mg/kg | 0.2  | MCERTS    | < 0.2  | < 0.2  | < 0.2  | < 0.2  | < 0.2  |
| 1,3-Dichlorobenzene         | mg/kg | 0.2  | MCERTS    | < 0.2  | < 0.2  | < 0.2  | < 0.2  | < 0.2  |
| 1,2-Dichlorobenzene         | mg/kg | 0.1  | MCERTS    | < 0.1  | < 0.1  | < 0.1  | < 0.1  | < 0.1  |
| 1,4-Dichlorobenzene         | mg/kg | 0.2  | MCERTS    | < 0.2  | < 0.2  | < 0.2  | < 0.2  | < 0.2  |
| Bis(2-chloroisopropyl)ether | mg/kg | 0.1  | MCERTS    | < 0.1  | < 0.1  | < 0.1  | < 0.1  | < 0.1  |
| 2-Methylphenol              | mg/kg | 0.3  | MCERTS    | < 0.3  | < 0.3  | < 0.3  | < 0.3  | < 0.3  |
| Hexachloroethane            | mg/kg | 0.05 | ISO 17025 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Nitrobenzene                | mg/kg | 0.3  | MCERTS    | < 0.3  | < 0.3  | < 0.3  | < 0.3  | < 0.3  |
| 4-Methylphenol              | mg/kg | 0.2  | NONE      | < 0.2  | < 0.2  | < 0.2  | < 0.2  | < 0.2  |
| Isophorone                  | mg/kg | 0.2  | MCERTS    | < 0.2  | < 0.2  | < 0.2  | < 0.2  | < 0.2  |
| 2-Nitrophenol               | mg/kg | 0.3  | NONE      | < 0.3  | < 0.3  | < 0.3  | < 0.3  | < 0.3  |
| 2,4-Dimethylphenol          | mg/kg | 0.3  | MCERTS    | < 0.3  | < 0.3  | < 0.3  | < 0.3  | < 0.3  |
| Bis(2-chloroethoxy)methane  | mg/kg | 0.3  | MCERTS    | < 0.3  | < 0.3  | < 0.3  | < 0.3  | < 0.3  |
| 1,2,4-Trichlorobenzene      | mg/kg | 0.3  | MCERTS    | < 0.3  | < 0.3  | < 0.3  | < 0.3  | < 0.3  |
| 2,4-Dichlorophenol          | mg/kg | 0.3  | MCERTS    | < 0.3  | < 0.3  | < 0.3  | < 0.3  | < 0.3  |
| 4-Chloroaniline             | mg/kg | 0.1  | NONE      | < 0.1  | < 0.1  | < 0.1  | < 0.1  | < 0.1  |
| Hexachlorobutadiene         | mg/kg | 0.1  | MCERTS    | < 0.1  | < 0.1  | < 0.1  | < 0.1  | < 0.1  |
| 4-Chloro-3-methylphenol     | mg/kg | 0.1  | NONE      | < 0.1  | < 0.1  | < 0.1  | < 0.1  | < 0.1  |
| 2,4,6-Trichlorophenol       | mg/kg | 0.1  | NONE      | < 0.1  | < 0.1  | < 0.1  | < 0.1  | < 0.1  |
| 2,4,5-Trichlorophenol       | mg/kg | 0.2  | NONE      | < 0.2  | < 0.2  | < 0.2  | < 0.2  | < 0.2  |
| 2-Methylnaphthalene         | mg/kg | 0.1  | NONE      | 0.3    | 0.2    | < 0.1  | 2.3    | < 0.1  |
| 2-Chloronaphthalene         | mg/kg | 0.1  | MCERTS    | < 0.1  | < 0.1  | < 0.1  | < 0.1  | < 0.1  |
| Dimethylphthalate           | mg/kg | 0.1  | MCERTS    | < 0.1  | < 0.1  | < 0.1  | < 0.1  | < 0.1  |
| 2,6-Dinitrotoluene          | mg/kg | 0.1  | NONE      | < 0.1  | < 0.1  | < 0.1  | < 0.1  | < 0.1  |
| 2,4-Dinitrotoluene          | mg/kg | 0.2  | NONE      | < 0.2  | < 0.2  | < 0.2  | < 0.2  | < 0.2  |
| Dibenzofuran                | mg/kg | 0.2  | MCERTS    | < 0.2  | 0.2    | < 0.2  | 0.7    | < 0.2  |
| 4-Chlorophenyl phenyl ether | mg/kg | 0.3  | MCERTS    | < 0.3  | < 0.3  | < 0.3  | < 0.3  | < 0.3  |
| Diethyl phthalate           | mg/kg | 0.2  | MCERTS    | < 0.2  | < 0.2  | < 0.2  | < 0.2  | < 0.2  |
| 4-Nitroaniline              | mg/kg | 0.2  | NONE      | < 0.2  | < 0.2  | < 0.2  | < 0.2  | < 0.2  |
| Azobenzene                  | mg/kg | 0.3  | NONE      | < 0.3  | < 0.3  | < 0.3  | < 0.3  | < 0.3  |
| Bromophenyl phenyl ether    | mg/kg | 0.2  | MCERTS    | < 0.2  | < 0.2  | < 0.2  | < 0.2  | < 0.2  |
| Hexachlorobenzene           | mg/kg | 0.3  | MCERTS    | < 0.30 | < 0.30 | < 0.30 | < 0.30 | < 0.30 |
| Carbazole                   | mg/kg | 0.3  | MCERTS    | < 0.3  | 0.3    | < 0.3  | < 0.3  | < 0.3  |
| Dibutyl phthalate           | mg/kg | 0.2  | NONE      | < 0.2  | < 0.2  | < 0.2  | < 0.2  | < 0.2  |
| Anthraquinone               | mg/kg | 0.3  | NONE      | < 0.3  | < 0.3  | < 0.3  | < 0.3  | < 0.3  |
| Butyl benzyl phthalate      | mg/kg | 0.3  | NONE      | < 0.3  | < 0.3  | < 0.3  | < 0.3  | < 0.3  |

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 Your Order No: BAR128 691

|                                         |  |  |  |               |                    |                      |               |               |
|-----------------------------------------|--|--|--|---------------|--------------------|----------------------|---------------|---------------|
| Lab Sample Number                       |  |  |  | 140465        | 140466             | 140467               | 140468        | 140469        |
| Sample Reference                        |  |  |  | WS05          | WS06               | WS06                 | WS07          | WS08          |
| Sample Number                           |  |  |  | None Supplied | None Supplied      | None Supplied        | None Supplied | None Supplied |
| Depth (m)                               |  |  |  | 0.10-0.20     | 0.30-0.80          | 1.60-1.90            | 0.30-0.70     | 0.20-0.70     |
| Date Sampled                            |  |  |  | 07/03/2024    | 07/03/2024         | 07/03/2024           | 07/03/2024    | 07/03/2024    |
| Time Taken                              |  |  |  | 1300          | None Supplied      | None Supplied        | None Supplied | None Supplied |
| Analytical Parameter<br>(Soil Analysis) |  |  |  | Units         | Limit of detection | Accreditation Status |               |               |

#### PCBs by GC-MS

|                  |       |       |        |         |         |   |         |         |
|------------------|-------|-------|--------|---------|---------|---|---------|---------|
| PCB Congener 28  | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | - | < 0.001 | < 0.001 |
| PCB Congener 52  | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | - | 0.003   | < 0.001 |
| PCB Congener 101 | mg/kg | 0.001 | MCERTS | 0.007   | < 0.001 | - | 0.005   | < 0.001 |
| PCB Congener 118 | mg/kg | 0.001 | MCERTS | 0.006   | < 0.001 | - | 0.005   | < 0.001 |
| PCB Congener 138 | mg/kg | 0.001 | MCERTS | 0.008   | < 0.001 | - | 0.008   | < 0.001 |
| PCB Congener 153 | mg/kg | 0.001 | MCERTS | 0.006   | < 0.001 | - | 0.006   | < 0.001 |
| PCB Congener 180 | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | - | < 0.001 | < 0.001 |
| Total PCBs       | mg/kg | 0.007 | MCERTS | 0.026   | < 0.007 | - | 0.027   | < 0.007 |

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



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|                                          |  |  |  |               |                    |                      |               |               |
|------------------------------------------|--|--|--|---------------|--------------------|----------------------|---------------|---------------|
| Lab Sample Number                        |  |  |  | 140451        | 140452             | 140453               | 140454        | 140455        |
| Sample Reference                         |  |  |  | DOCK          | WS01               | WS02                 | WS03          | WS04          |
| Sample Number                            |  |  |  | None Supplied | None Supplied      | None Supplied        | None Supplied | None Supplied |
| Depth (m)                                |  |  |  | None Supplied | None Supplied      | None Supplied        | None Supplied | None Supplied |
| Date Sampled                             |  |  |  | 07/03/2024    | 07/03/2024         | 07/03/2024           | 07/03/2024    | 07/03/2024    |
| Time Taken                               |  |  |  | 1135          | 1215               | 1250                 | 1400          | 1435          |
| Analytical Parameter<br>(Water Analysis) |  |  |  | Units         | Limit of detection | Accreditation Status |               |               |

## General Inorganics

|                                  |          |       |           |       |       |       |       |       |
|----------------------------------|----------|-------|-----------|-------|-------|-------|-------|-------|
| pH (L099)                        | pH Units | N/A   | ISO 17025 | 8.4   | 7.2   | 7.8   | 7.4   | 8     |
| Total Cyanide (Low Level 1 µg/l) | µg/l     | 1     | NONE      | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| Free Cyanide (Low Level 1 µg/l)  | µg/l     | 1     | NONE      | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| Sulphate as SO <sub>4</sub>      | mg/l     | 0.045 | ISO 17025 | 1360  | 10.4  | 269   | 22.7  | 7.57  |
| Sulphide                         | µg/l     | 5     | NONE      | < 5.0 | < 5.0 | 5     | < 5.0 | < 5.0 |

## Total Phenols

|                                            |      |   |      |       |       |       |       |       |
|--------------------------------------------|------|---|------|-------|-------|-------|-------|-------|
| Total Phenols (Monohydric) Low Level 1ug/l | µg/l | 1 | NONE | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
|--------------------------------------------|------|---|------|-------|-------|-------|-------|-------|

## Speciated PAHs

|                        |      |      |           |        |        |        |        |        |
|------------------------|------|------|-----------|--------|--------|--------|--------|--------|
| Naphthalene            | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Acenaphthylene         | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | 0.12   | < 0.01 | < 0.01 |
| Acenaphthene           | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | 2.7    | < 0.01 | 3.9    |
| Fluorene               | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | 0.82   | < 0.01 | 0.48   |
| Phenanthrene           | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | 1.8    | 0.23   | 0.09   |
| Anthracene             | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | 0.69   | < 0.01 | 0.1    |
| Fluoranthene           | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | 2.6    | 0.35   | 0.28   |
| Pyrene                 | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | 1.8    | 0.3    | 0.17   |
| Benzo(a)anthracene     | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | 0.88   | 0.17   | < 0.01 |
| Chrysene               | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | 1.2    | 0.2    | < 0.01 |
| Benzo(b)fluoranthene   | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | 1.4    | 0.24   | < 0.01 |
| Benzo(k)fluoranthene   | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | 0.38   | 0.08   | < 0.01 |
| Benzo(a)pyrene         | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | 0.9    | 0.18   | < 0.01 |
| Indeno(1,2,3-cd)pyrene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | 0.46   | 0.09   | < 0.01 |
| Dibenz(a,h)anthracene  | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | 0.18   | < 0.01 | < 0.01 |
| Benzo(ghi)perylene     | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | 0.49   | 0.1    | < 0.01 |

## Total PAH

|                   |      |      |           |        |        |      |      |      |
|-------------------|------|------|-----------|--------|--------|------|------|------|
| Total EPA-16 PAHs | µg/l | 0.16 | ISO 17025 | < 0.16 | < 0.16 | 16.4 | 1.94 | 4.99 |
|-------------------|------|------|-----------|--------|--------|------|------|------|



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|                                          |       |                    |                         |               |               |               |               |               |
|------------------------------------------|-------|--------------------|-------------------------|---------------|---------------|---------------|---------------|---------------|
| Lab Sample Number                        |       |                    |                         | 140451        | 140452        | 140453        | 140454        | 140455        |
| Sample Reference                         |       |                    |                         | DOCK          | WS01          | WS02          | WS03          | WS04          |
| Sample Number                            |       |                    |                         | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Depth (m)                                |       |                    |                         | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Date Sampled                             |       |                    |                         | 07/03/2024    | 07/03/2024    | 07/03/2024    | 07/03/2024    | 07/03/2024    |
| Time Taken                               |       |                    |                         | 1135          | 1215          | 1250          | 1400          | 1435          |
| Analytical Parameter<br>(Water Analysis) | Units | Limit of detection | Accreditation<br>Status |               |               |               |               |               |
|                                          |       |                    |                         |               |               |               |               |               |

## Heavy Metals / Metalloids

|                      |      |      |           |        |       |        |        |        |
|----------------------|------|------|-----------|--------|-------|--------|--------|--------|
| Arsenic (dissolved)  | µg/l | 0.15 | ISO 17025 | 2.04   | 6.27  | 12.1   | 3.17   | 17.7   |
| Cadmium (dissolved)  | µg/l | 0.02 | ISO 17025 | < 0.02 | 0.03  | < 0.02 | < 0.02 | 0.02   |
| Chromium (dissolved) | µg/l | 0.2  | ISO 17025 | 0.9    | < 0.2 | 0.3    | 0.2    | 0.4    |
| Copper (dissolved)   | µg/l | 0.5  | ISO 17025 | 3.5    | 1.2   | 1.7    | 0.7    | 3.7    |
| Lead (dissolved)     | µg/l | 0.2  | ISO 17025 | < 0.2  | 0.3   | 0.5    | 0.6    | 0.4    |
| Mercury (dissolved)  | µg/l | 0.05 | ISO 17025 | < 0.05 | 0.08  | < 0.05 | < 0.05 | < 0.05 |
| Nickel (dissolved)   | µg/l | 0.5  | ISO 17025 | 0.5    | 3.3   | 3.3    | 2.5    | 3      |
| Selenium (dissolved) | µg/l | 0.6  | ISO 17025 | -      | < 0.6 | 3.3    | 2.4    | -      |
| Zinc (dissolved)     | µg/l | 0.5  | ISO 17025 | 3.9    | 23    | 3.8    | 2.8    | 7.2    |

|                       |      |    |           |       |       |       |       |       |
|-----------------------|------|----|-----------|-------|-------|-------|-------|-------|
| Boron (dissolved)     | µg/l | 10 | ISO 17025 | 1500  | 1100  | 4700  | 670   | 2400  |
| Chromium (hexavalent) | µg/l | 5  | ISO 17025 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 |
| Selenium (dissolved)  | µg/l | 4  | ISO 17025 | < 4.0 | -     | -     | -     | < 4.0 |

## Petroleum Hydrocarbons

|                                                     |      |    |           |       |       |       |       |       |
|-----------------------------------------------------|------|----|-----------|-------|-------|-------|-------|-------|
| TPH - Aliphatic >C5 - C6 <sub>HS_1D_AL</sub>        | µg/l | 1  | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| TPH - Aliphatic >C6 - C8 <sub>HS_1D_AL</sub>        | µg/l | 1  | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| TPH - Aliphatic >C8 - C10 <sub>HS_1D_AL</sub>       | µg/l | 1  | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| TPH - Aliphatic >C10 - C12 <sub>EH_1D_AL_MS</sub>   | µg/l | 10 | NONE      | < 10  | < 10  | < 10  | < 10  | < 10  |
| TPH - Aliphatic >C12 - C16 <sub>EH_1D_AL_MS</sub>   | µg/l | 10 | NONE      | < 10  | < 10  | < 10  | < 10  | < 10  |
| TPH - Aliphatic >C16 - C21 <sub>EH_1D_AL_MS</sub>   | µg/l | 10 | NONE      | < 10  | < 10  | < 10  | < 10  | < 10  |
| TPH - Aliphatic >C21 - C35 <sub>EH_1D_AL_MS</sub>   | µg/l | 10 | NONE      | < 10  | < 10  | < 10  | < 10  | < 10  |
| TPH - Aliphatic >C5 - C35 <sub>HS+EH_1D_AL_MS</sub> | µg/l | 10 | NONE      | < 10  | < 10  | < 10  | < 10  | < 10  |

|                                                      |      |    |           |       |       |       |       |       |
|------------------------------------------------------|------|----|-----------|-------|-------|-------|-------|-------|
| TPH - Aromatic >EC5 - EC7 <sub>HS_1D_AR</sub>        | µg/l | 1  | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| TPH - Aromatic >EC7 - EC8 <sub>HS_1D_AR</sub>        | µg/l | 1  | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| TPH - Aromatic >EC8 - EC10 <sub>HS_1D_AR</sub>       | µg/l | 1  | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| TPH - Aromatic >EC10 - EC12 <sub>EH_1D_AR_MS</sub>   | µg/l | 10 | NONE      | < 10  | < 10  | 15    | < 10  | < 10  |
| TPH - Aromatic >EC12 - EC16 <sub>EH_1D_AR_MS</sub>   | µg/l | 10 | NONE      | < 10  | < 10  | 70    | < 10  | 40    |
| TPH - Aromatic >EC16 - EC21 <sub>EH_1D_AR_MS</sub>   | µg/l | 10 | NONE      | < 10  | < 10  | 90    | < 10  | 40    |
| TPH - Aromatic >EC21 - EC35 <sub>EH_1D_AR_MS</sub>   | µg/l | 10 | NONE      | < 10  | < 10  | 60    | < 10  | < 10  |
| TPH - Aromatic >EC5 - EC35 <sub>HS+EH_1D_AR_MS</sub> | µg/l | 10 | NONE      | < 10  | < 10  | 240   | < 10  | 80    |



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Project / Site name: Barry Docks

Your Order No: BAR128 691

| Lab Sample Number                        |  |  |  | 140451        | 140452             | 140453               | 140454        | 140455        |
|------------------------------------------|--|--|--|---------------|--------------------|----------------------|---------------|---------------|
| Sample Reference                         |  |  |  | DOCK          | WS01               | WS02                 | WS03          | WS04          |
| Sample Number                            |  |  |  | None Supplied | None Supplied      | None Supplied        | None Supplied | None Supplied |
| Depth (m)                                |  |  |  | None Supplied | None Supplied      | None Supplied        | None Supplied | None Supplied |
| Date Sampled                             |  |  |  | 07/03/2024    | 07/03/2024         | 07/03/2024           | 07/03/2024    | 07/03/2024    |
| Time Taken                               |  |  |  | 1135          | 1215               | 1250                 | 1400          | 1435          |
| Analytical Parameter<br>(Water Analysis) |  |  |  | Units         | Limit of detection | Accreditation Status |               |               |

## VOCs

|                                       |      |   |           |       |       |       |       |       |
|---------------------------------------|------|---|-----------|-------|-------|-------|-------|-------|
| Chloromethane                         | µg/l | 3 | ISO 17025 | < 3.0 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| Chloroethane                          | µg/l | 3 | ISO 17025 | < 3.0 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| Bromomethane                          | µg/l | 3 | ISO 17025 | < 3.0 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| Vinyl Chloride                        | µg/l | 3 | NONE      | < 3.0 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| Trichlorofluoromethane                | µg/l | 3 | NONE      | < 3.0 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| 1,1-Dichloroethene                    | µg/l | 3 | ISO 17025 | < 3.0 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | µg/l | 3 | ISO 17025 | < 3.0 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| Trans 1,2-dichloroethylene            | µg/l | 3 | ISO 17025 | < 3.0 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| MTBE (Methyl Tertiary Butyl Ether)    | µg/l | 3 | ISO 17025 | < 3.0 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| 1,1-Dichloroethane                    | µg/l | 3 | ISO 17025 | < 3.0 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| 2,2-Dichloropropane                   | µg/l | 3 | NONE      | < 3.0 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| Chloroform                            | µg/l | 3 | ISO 17025 | < 3.0 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| 1,1,1-Trichloroethane                 | µg/l | 3 | ISO 17025 | < 3.0 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| 1,2-Dichloroethane                    | µg/l | 3 | ISO 17025 | < 3.0 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| 1,1-Dichloropropene                   | µg/l | 3 | ISO 17025 | < 3.0 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| Cis-1,2-dichloroethene                | µg/l | 3 | ISO 17025 | < 3.0 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| Benzene                               | µg/l | 3 | ISO 17025 | < 3.0 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| Carbontetrachloride                   | µg/l | 3 | ISO 17025 | < 3.0 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| 1,2-Dichloropropane                   | µg/l | 3 | ISO 17025 | < 3.0 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| Trichloroethene                       | µg/l | 3 | ISO 17025 | < 3.0 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| Dibromomethane                        | µg/l | 3 | ISO 17025 | < 3.0 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| Bromodichloromethane                  | µg/l | 3 | ISO 17025 | < 3.0 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| Cis-1,3-dichloropropene               | µg/l | 3 | ISO 17025 | < 3.0 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| Trans-1,3-dichloropropene             | µg/l | 3 | ISO 17025 | < 3.0 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| Toluene                               | µg/l | 3 | ISO 17025 | < 3.0 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| 1,1,2-Trichloroethane                 | µg/l | 3 | ISO 17025 | < 3.0 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| 1,3-Dichloropropane                   | µg/l | 3 | ISO 17025 | < 3.0 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| Dibromochloromethane                  | µg/l | 3 | ISO 17025 | < 3.0 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| Tetrachloroethene                     | µg/l | 3 | ISO 17025 | < 3.0 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| 1,2-Dibromoethane                     | µg/l | 3 | ISO 17025 | < 3.0 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| Chlorobenzene                         | µg/l | 3 | ISO 17025 | < 3.0 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| 1,1,1,2-Tetrachloroethane             | µg/l | 3 | ISO 17025 | < 3.0 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| Ethylbenzene                          | µg/l | 3 | ISO 17025 | < 3.0 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| p & m-xylene                          | µg/l | 3 | ISO 17025 | < 3.0 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| Styrene                               | µg/l | 3 | ISO 17025 | < 3.0 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| Bromoform                             | µg/l | 3 | ISO 17025 | < 3.0 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| o-xylene                              | µg/l | 3 | ISO 17025 | < 3.0 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| Isopropylbenzene                      | µg/l | 3 | ISO 17025 | < 3.0 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| 1,1,2,2-Tetrachloroethane             | µg/l | 3 | NONE      | < 3.0 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| Bromobenzene                          | µg/l | 3 | ISO 17025 | < 3.0 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| n-Propylbenzene                       | µg/l | 3 | ISO 17025 | < 3.0 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| 2-Chlorotoluene                       | µg/l | 3 | ISO 17025 | < 3.0 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| 4-Chlorotoluene                       | µg/l | 3 | ISO 17025 | < 3.0 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| 1,3,5-Trimethylbenzene                | µg/l | 3 | ISO 17025 | < 3.0 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| tert-Butylbenzene                     | µg/l | 3 | ISO 17025 | < 3.0 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| 1,2,4-Trimethylbenzene                | µg/l | 3 | ISO 17025 | < 3.0 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| sec-Butylbenzene                      | µg/l | 3 | ISO 17025 | < 3.0 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| 1,3-Dichlorobenzene                   | µg/l | 3 | ISO 17025 | < 3.0 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| p-Isopropyltoluene                    | µg/l | 3 | ISO 17025 | < 3.0 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| 1,4-Dichlorobenzene                   | µg/l | 3 | ISO 17025 | < 3.0 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| 1,2-Dichlorobenzene                   | µg/l | 3 | ISO 17025 | < 3.0 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |



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Environmental Science

Analytical Report Number: 24-008072

Project / Site name: Barry Docks

Your Order No: BAR128 691

| Lab Sample Number                        |      |   |           | 140451        | 140452             | 140453               | 140454        | 140455        |
|------------------------------------------|------|---|-----------|---------------|--------------------|----------------------|---------------|---------------|
| Sample Reference                         |      |   |           | DOCK          | WS01               | WS02                 | WS03          | WS04          |
| Sample Number                            |      |   |           | None Supplied | None Supplied      | None Supplied        | None Supplied | None Supplied |
| Depth (m)                                |      |   |           | None Supplied | None Supplied      | None Supplied        | None Supplied | None Supplied |
| Date Sampled                             |      |   |           | 07/03/2024    | 07/03/2024         | 07/03/2024           | 07/03/2024    | 07/03/2024    |
| Time Taken                               |      |   |           | 1135          | 1215               | 1250                 | 1400          | 1435          |
| Analytical Parameter<br>(Water Analysis) |      |   |           | Units         | Limit of detection | Accreditation Status |               |               |
| Butylbenzene                             | µg/l | 3 | ISO 17025 | < 3.0         | < 3.0              | < 3.0                | < 3.0         | < 3.0         |
| 1,2-Dibromo-3-chloropropane              | µg/l | 3 | ISO 17025 | < 3.0         | < 3.0              | < 3.0                | < 3.0         | < 3.0         |
| 1,2,4-Trichlorobenzene                   | µg/l | 3 | ISO 17025 | < 3.0         | < 3.0              | < 3.0                | < 3.0         | < 3.0         |
| Hexachlorobutadiene                      | µg/l | 3 | ISO 17025 | < 3.0         | < 3.0              | < 3.0                | < 3.0         | < 3.0         |
| 1,2,3-Trichlorobenzene                   | µg/l | 3 | ISO 17025 | < 3.0         | < 3.0              | < 3.0                | < 3.0         | < 3.0         |

## SVOCs

|                             |      |      |      |        |        |        |        |        |
|-----------------------------|------|------|------|--------|--------|--------|--------|--------|
| Aniline                     | µg/l | 0.05 | NONE | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Phenol                      | µg/l | 0.05 | NONE | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| 2-Chlorophenol              | µg/l | 0.05 | NONE | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Bis(2-chloroethyl)ether     | µg/l | 0.05 | NONE | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| 1,3-Dichlorobenzene         | µg/l | 0.05 | NONE | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| 1,2-Dichlorobenzene         | µg/l | 0.05 | NONE | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| 1,4-Dichlorobenzene         | µg/l | 0.05 | NONE | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Bis(2-chloroisopropyl)ether | µg/l | 0.05 | NONE | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| 2-Methylphenol              | µg/l | 0.05 | NONE | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Hexachloroethane            | µg/l | 0.05 | NONE | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Nitrobenzene                | µg/l | 0.05 | NONE | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| 4-Methylphenol              | µg/l | 0.05 | NONE | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Isophorone                  | µg/l | 0.05 | NONE | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| 2-Nitrophenol               | µg/l | 0.05 | NONE | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| 2,4-Dimethylphenol          | µg/l | 0.05 | NONE | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Bis(2-chloroethoxy)methane  | µg/l | 0.05 | NONE | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| 1,2,4-Trichlorobenzene      | µg/l | 0.05 | NONE | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| 2,4-Dichlorophenol          | µg/l | 0.05 | NONE | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| 4-Chloroaniline             | µg/l | 0.05 | NONE | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Hexachlorobutadiene         | µg/l | 0.05 | NONE | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| 4-Chloro-3-methylphenol     | µg/l | 0.05 | NONE | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| 2,4,6-Trichlorophenol       | µg/l | 0.05 | NONE | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| 2,4,5-Trichlorophenol       | µg/l | 0.05 | NONE | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| 2-Methylnaphthalene         | µg/l | 0.05 | NONE | < 0.05 | < 0.05 | < 0.05 | < 0.05 | 0.24   |
| 2-Chloronaphthalene         | µg/l | 0.05 | NONE | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Dimethylphthalate           | µg/l | 0.05 | NONE | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| 2,6-Dinitrotoluene          | µg/l | 0.05 | NONE | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| 2,4-Dinitrotoluene          | µg/l | 0.05 | NONE | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Dibenzofuran                | µg/l | 0.05 | NONE | < 0.05 | < 0.05 | 0.43   | < 0.05 | 0.66   |
| 4-Chlorophenyl phenyl ether | µg/l | 0.05 | NONE | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Diethyl phthalate           | µg/l | 0.05 | NONE | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| 4-Nitroaniline              | µg/l | 0.05 | NONE | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Azobenzene                  | µg/l | 0.05 | NONE | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Bromophenyl phenyl ether    | µg/l | 0.05 | NONE | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Hexachlorobenzene           | µg/l | 0.05 | NONE | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Carbazole                   | µg/l | 0.05 | NONE | < 0.05 | < 0.05 | 0.37   | < 0.05 | < 0.05 |
| Dibutyl phthalate           | µg/l | 0.05 | NONE | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Anthraquinone               | µg/l | 0.05 | NONE | < 0.05 | < 0.05 | 0.34   | < 0.05 | < 0.05 |
| Butyl benzyl phthalate      | µg/l | 0.05 | NONE | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |

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

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



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Environmental Science

Analytical Report Number: 24-008072

Project / Site name: Barry Docks

Your Order No: BAR128 691

|                                          |       |                    |                         |               |               |               |               |
|------------------------------------------|-------|--------------------|-------------------------|---------------|---------------|---------------|---------------|
| Lab Sample Number                        |       |                    |                         | 140456        | 140457        | 140458        | 140459        |
| Sample Reference                         |       |                    |                         | WS05          | WS06          | WS07          | WS08          |
| Sample Number                            |       |                    |                         | None Supplied | None Supplied | None Supplied | None Supplied |
| Depth (m)                                |       |                    |                         | None Supplied | None Supplied | None Supplied | None Supplied |
| Date Sampled                             |       |                    |                         | 07/03/2024    | 07/03/2024    | 07/03/2024    | 07/03/2024    |
| Time Taken                               |       |                    |                         | 1315          | None Supplied | None Supplied | None Supplied |
| Analytical Parameter<br>(Water Analysis) | Units | Limit of detection | Accreditation<br>Status |               |               |               |               |

## General Inorganics

|                                  |          |       |           |       |       |     |       |
|----------------------------------|----------|-------|-----------|-------|-------|-----|-------|
| pH (L099)                        | pH Units | N/A   | ISO 17025 | 7.7   | 8.4   | I/S | 11.4  |
| Total Cyanide (Low Level 1 µg/l) | µg/l     | 1     | NONE      | < 1.0 | < 1.0 | I/S | < 1.0 |
| Free Cyanide (Low Level 1 µg/l)  | µg/l     | 1     | NONE      | < 1.0 | < 1.0 | I/S | < 1.0 |
| Sulphate as SO <sub>4</sub>      | mg/l     | 0.045 | ISO 17025 | 40.3  | 64.8  | 155 | 166   |
| Sulphide                         | µg/l     | 5     | NONE      | < 5.0 | < 5.0 | 9.3 | 18    |

## Total Phenols

|                                            |      |   |      |       |       |     |       |
|--------------------------------------------|------|---|------|-------|-------|-----|-------|
| Total Phenols (Monohydric) Low Level 1ug/l | µg/l | 1 | NONE | < 1.0 | < 1.0 | I/S | < 1.0 |
|--------------------------------------------|------|---|------|-------|-------|-----|-------|

## Speciated PAHs

|                        |      |      |           |        |        |     |        |
|------------------------|------|------|-----------|--------|--------|-----|--------|
| Naphthalene            | µg/l | 0.01 | ISO 17025 | 0.43   | < 0.01 | I/S | < 0.01 |
| Acenaphthylene         | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | I/S | < 0.01 |
| Acenaphthene           | µg/l | 0.01 | ISO 17025 | 0.27   | < 0.01 | I/S | < 0.01 |
| Fluorene               | µg/l | 0.01 | ISO 17025 | 0.16   | < 0.01 | I/S | < 0.01 |
| Phenanthrene           | µg/l | 0.01 | ISO 17025 | 0.27   | < 0.01 | I/S | < 0.01 |
| Anthracene             | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | I/S | < 0.01 |
| Fluoranthene           | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | I/S | < 0.01 |
| Pyrene                 | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | I/S | < 0.01 |
| Benzo(a)anthracene     | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | I/S | < 0.01 |
| Chrysene               | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | I/S | < 0.01 |
| Benzo(b)fluoranthene   | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | I/S | < 0.01 |
| Benzo(k)fluoranthene   | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | I/S | < 0.01 |
| Benzo(a)pyrene         | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | I/S | < 0.01 |
| Indeno(1,2,3-cd)pyrene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | I/S | < 0.01 |
| Dibenz(a,h)anthracene  | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | I/S | < 0.01 |
| Benzo(ghi)perylene     | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | I/S | < 0.01 |

## Total PAH

|                   |      |      |           |      |        |     |        |
|-------------------|------|------|-----------|------|--------|-----|--------|
| Total EPA-16 PAHs | µg/l | 0.16 | ISO 17025 | 1.13 | < 0.16 | I/S | < 0.16 |
|-------------------|------|------|-----------|------|--------|-----|--------|



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Environmental Science

Analytical Report Number: 24-008072

Project / Site name: Barry Docks

Your Order No: BAR128 691

|                                          |       |                    |                         |               |               |               |               |
|------------------------------------------|-------|--------------------|-------------------------|---------------|---------------|---------------|---------------|
| Lab Sample Number                        |       |                    |                         | 140456        | 140457        | 140458        | 140459        |
| Sample Reference                         |       |                    |                         | WS05          | WS06          | WS07          | WS08          |
| Sample Number                            |       |                    |                         | None Supplied | None Supplied | None Supplied | None Supplied |
| Depth (m)                                |       |                    |                         | None Supplied | None Supplied | None Supplied | None Supplied |
| Date Sampled                             |       |                    |                         | 07/03/2024    | 07/03/2024    | 07/03/2024    | 07/03/2024    |
| Time Taken                               |       |                    |                         | 1315          | None Supplied | None Supplied | None Supplied |
| Analytical Parameter<br>(Water Analysis) | Units | Limit of detection | Accreditation<br>Status |               |               |               |               |
|                                          |       |                    |                         |               |               |               |               |

## Heavy Metals / Metalloids

|                      |      |      |           |        |        |        |        |
|----------------------|------|------|-----------|--------|--------|--------|--------|
| Arsenic (dissolved)  | µg/l | 0.15 | ISO 17025 | 15.3   | 4.59   | 8      | 10.1   |
| Cadmium (dissolved)  | µg/l | 0.02 | ISO 17025 | 0.03   | < 0.02 | < 0.02 | 0.03   |
| Chromium (dissolved) | µg/l | 0.2  | ISO 17025 | 0.4    | 1.5    | 0.7    | 2.1    |
| Copper (dissolved)   | µg/l | 0.5  | ISO 17025 | 1.9    | 2.7    | 2      | 57     |
| Lead (dissolved)     | µg/l | 0.2  | ISO 17025 | < 0.2  | < 0.2  | < 0.2  | < 0.2  |
| Mercury (dissolved)  | µg/l | 0.05 | ISO 17025 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Nickel (dissolved)   | µg/l | 0.5  | ISO 17025 | 5.4    | 0.7    | 1      | 4.2    |
| Selenium (dissolved) | µg/l | 0.6  | ISO 17025 | 6.9    | 2.2    | 2.9    | 5.6    |
| Zinc (dissolved)     | µg/l | 0.5  | ISO 17025 | 19     | 1.8    | 1.1    | 1.2    |

|                       |      |    |           |       |       |     |       |
|-----------------------|------|----|-----------|-------|-------|-----|-------|
| Boron (dissolved)     | µg/l | 10 | ISO 17025 | 1600  | 290   | 380 | 200   |
| Chromium (hexavalent) | µg/l | 5  | ISO 17025 | < 5.0 | < 5.0 | I/S | < 5.0 |
| Selenium (dissolved)  | µg/l | 4  | ISO 17025 | -     | -     | -   | -     |

## Petroleum Hydrocarbons

|                                                     |      |    |           |       |       |       |       |
|-----------------------------------------------------|------|----|-----------|-------|-------|-------|-------|
| TPH - Aliphatic >C5 - C6 <sub>HS_1D_AL</sub>        | µg/l | 1  | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| TPH - Aliphatic >C6 - C8 <sub>HS_1D_AL</sub>        | µg/l | 1  | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| TPH - Aliphatic >C8 - C10 <sub>HS_1D_AL</sub>       | µg/l | 1  | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| TPH - Aliphatic >C10 - C12 <sub>EH_1D_AL_MS</sub>   | µg/l | 10 | NONE      | < 10  | < 10  | I/S   | < 10  |
| TPH - Aliphatic >C12 - C16 <sub>EH_1D_AL_MS</sub>   | µg/l | 10 | NONE      | < 10  | < 10  | I/S   | < 10  |
| TPH - Aliphatic >C16 - C21 <sub>EH_1D_AL_MS</sub>   | µg/l | 10 | NONE      | < 10  | < 10  | I/S   | < 10  |
| TPH - Aliphatic >C21 - C35 <sub>EH_1D_AL_MS</sub>   | µg/l | 10 | NONE      | < 10  | < 10  | I/S   | < 10  |
| TPH - Aliphatic >C5 - C35 <sub>HS+EH_1D_AL_MS</sub> | µg/l | 10 | NONE      | < 10  | < 10  | < 10  | < 10  |

|                                                      |      |    |           |       |       |       |       |
|------------------------------------------------------|------|----|-----------|-------|-------|-------|-------|
| TPH - Aromatic >EC5 - EC7 <sub>HS_1D_AR</sub>        | µg/l | 1  | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| TPH - Aromatic >EC7 - EC8 <sub>HS_1D_AR</sub>        | µg/l | 1  | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| TPH - Aromatic >EC8 - EC10 <sub>HS_1D_AR</sub>       | µg/l | 1  | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| TPH - Aromatic >EC10 - EC12 <sub>EH_1D_AR_MS</sub>   | µg/l | 10 | NONE      | 24    | < 10  | I/S   | < 10  |
| TPH - Aromatic >EC12 - EC16 <sub>EH_1D_AR_MS</sub>   | µg/l | 10 | NONE      | 50    | < 10  | I/S   | < 10  |
| TPH - Aromatic >EC16 - EC21 <sub>EH_1D_AR_MS</sub>   | µg/l | 10 | NONE      | 40    | < 10  | I/S   | < 10  |
| TPH - Aromatic >EC21 - EC35 <sub>EH_1D_AR_MS</sub>   | µg/l | 10 | NONE      | < 10  | < 10  | I/S   | < 10  |
| TPH - Aromatic >EC5 - EC35 <sub>HS+EH_1D_AR_MS</sub> | µg/l | 10 | NONE      | 110   | < 10  | < 10  | < 10  |



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Environmental Science

Analytical Report Number: 24-008072

Project / Site name: Barry Docks

Your Order No: BAR128 691

|                                          |  |  |  |               |                    |                      |               |
|------------------------------------------|--|--|--|---------------|--------------------|----------------------|---------------|
| Lab Sample Number                        |  |  |  | 140456        | 140457             | 140458               | 140459        |
| Sample Reference                         |  |  |  | WS05          | WS06               | WS07                 | WS08          |
| Sample Number                            |  |  |  | None Supplied | None Supplied      | None Supplied        | None Supplied |
| Depth (m)                                |  |  |  | None Supplied | None Supplied      | None Supplied        | None Supplied |
| Date Sampled                             |  |  |  | 07/03/2024    | 07/03/2024         | 07/03/2024           | 07/03/2024    |
| Time Taken                               |  |  |  | 1315          | None Supplied      | None Supplied        | None Supplied |
| Analytical Parameter<br>(Water Analysis) |  |  |  | Units         | Limit of detection | Accreditation Status |               |

## VOCs

|                                       |      |   |           |       |       |       |       |
|---------------------------------------|------|---|-----------|-------|-------|-------|-------|
| Chloromethane                         | µg/l | 3 | ISO 17025 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| Chloroethane                          | µg/l | 3 | ISO 17025 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| Bromomethane                          | µg/l | 3 | ISO 17025 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| Vinyl Chloride                        | µg/l | 3 | NONE      | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| Trichlorofluoromethane                | µg/l | 3 | NONE      | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| 1,1-Dichloroethene                    | µg/l | 3 | ISO 17025 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | µg/l | 3 | ISO 17025 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| Trans 1,2-dichloroethylene            | µg/l | 3 | ISO 17025 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| MTBE (Methyl Tertiary Butyl Ether)    | µg/l | 3 | ISO 17025 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| 1,1-Dichloroethane                    | µg/l | 3 | ISO 17025 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| 2,2-Dichloropropane                   | µg/l | 3 | NONE      | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| Chloroform                            | µg/l | 3 | ISO 17025 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| 1,1,1-Trichloroethane                 | µg/l | 3 | ISO 17025 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| 1,2-Dichloroethane                    | µg/l | 3 | ISO 17025 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| 1,1-Dichloropropene                   | µg/l | 3 | ISO 17025 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| Cis-1,2-dichloroethene                | µg/l | 3 | ISO 17025 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| Benzene                               | µg/l | 3 | ISO 17025 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| Carbontetrachloride                   | µg/l | 3 | ISO 17025 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| 1,2-Dichloropropane                   | µg/l | 3 | ISO 17025 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| Trichloroethene                       | µg/l | 3 | ISO 17025 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| Dibromomethane                        | µg/l | 3 | ISO 17025 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| Bromodichloromethane                  | µg/l | 3 | ISO 17025 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| Cis-1,3-dichloropropene               | µg/l | 3 | ISO 17025 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| Trans-1,3-dichloropropene             | µg/l | 3 | ISO 17025 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| Toluene                               | µg/l | 3 | ISO 17025 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| 1,1,2-Trichloroethane                 | µg/l | 3 | ISO 17025 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| 1,3-Dichloropropane                   | µg/l | 3 | ISO 17025 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| Dibromochloromethane                  | µg/l | 3 | ISO 17025 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| Tetrachloroethene                     | µg/l | 3 | ISO 17025 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| 1,2-Dibromoethane                     | µg/l | 3 | ISO 17025 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| Chlorobenzene                         | µg/l | 3 | ISO 17025 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| 1,1,1,2-Tetrachloroethane             | µg/l | 3 | ISO 17025 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| Ethylbenzene                          | µg/l | 3 | ISO 17025 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| p & m-xylene                          | µg/l | 3 | ISO 17025 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| Styrene                               | µg/l | 3 | ISO 17025 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| Bromoform                             | µg/l | 3 | ISO 17025 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| o-xylene                              | µg/l | 3 | ISO 17025 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| Isopropylbenzene                      | µg/l | 3 | ISO 17025 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| 1,1,2,2-Tetrachloroethane             | µg/l | 3 | NONE      | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| Bromobenzene                          | µg/l | 3 | ISO 17025 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| n-Propylbenzene                       | µg/l | 3 | ISO 17025 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| 2-Chlorotoluene                       | µg/l | 3 | ISO 17025 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| 4-Chlorotoluene                       | µg/l | 3 | ISO 17025 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| 1,3,5-Trimethylbenzene                | µg/l | 3 | ISO 17025 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| tert-Butylbenzene                     | µg/l | 3 | ISO 17025 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| 1,2,4-Trimethylbenzene                | µg/l | 3 | ISO 17025 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| sec-Butylbenzene                      | µg/l | 3 | ISO 17025 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| 1,3-Dichlorobenzene                   | µg/l | 3 | ISO 17025 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| p-Isopropyltoluene                    | µg/l | 3 | ISO 17025 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| 1,4-Dichlorobenzene                   | µg/l | 3 | ISO 17025 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| 1,2-Dichlorobenzene                   | µg/l | 3 | ISO 17025 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |



4041



Environmental Science

Analytical Report Number: 24-008072

Project / Site name: Barry Docks

Your Order No: BAR128 691

| Lab Sample Number                        |       |                    |                         | 140456        | 140457        | 140458        | 140459        |
|------------------------------------------|-------|--------------------|-------------------------|---------------|---------------|---------------|---------------|
| Sample Reference                         |       |                    |                         | WS05          | WS06          | WS07          | WS08          |
| Sample Number                            |       |                    |                         | None Supplied | None Supplied | None Supplied | None Supplied |
| Depth (m)                                |       |                    |                         | None Supplied | None Supplied | None Supplied | None Supplied |
| Date Sampled                             |       |                    |                         | 07/03/2024    | 07/03/2024    | 07/03/2024    | 07/03/2024    |
| Time Taken                               |       |                    |                         | 1315          | None Supplied | None Supplied | None Supplied |
| Analytical Parameter<br>(Water Analysis) | Units | Limit of detection | Accreditation<br>Status |               |               |               |               |
| Butylbenzene                             | µg/l  | 3                  | ISO 17025               | < 3.0         | < 3.0         | < 3.0         | < 3.0         |
| 1,2-Dibromo-3-chloropropane              | µg/l  | 3                  | ISO 17025               | < 3.0         | < 3.0         | < 3.0         | < 3.0         |
| 1,2,4-Trichlorobenzene                   | µg/l  | 3                  | ISO 17025               | < 3.0         | < 3.0         | < 3.0         | < 3.0         |
| Hexachlorobutadiene                      | µg/l  | 3                  | ISO 17025               | < 3.0         | < 3.0         | < 3.0         | < 3.0         |
| 1,2,3-Trichlorobenzene                   | µg/l  | 3                  | ISO 17025               | < 3.0         | < 3.0         | < 3.0         | < 3.0         |

## SVOCs

|                             |      |      |      |        |        |     |        |
|-----------------------------|------|------|------|--------|--------|-----|--------|
| Aniline                     | µg/l | 0.05 | NONE | < 0.05 | < 0.05 | I/S | < 0.05 |
| Phenol                      | µg/l | 0.05 | NONE | < 0.05 | < 0.05 | I/S | < 0.05 |
| 2-Chlorophenol              | µg/l | 0.05 | NONE | < 0.05 | < 0.05 | I/S | < 0.05 |
| Bis(2-chloroethyl)ether     | µg/l | 0.05 | NONE | < 0.05 | < 0.05 | I/S | < 0.05 |
| 1,3-Dichlorobenzene         | µg/l | 0.05 | NONE | < 0.05 | < 0.05 | I/S | < 0.05 |
| 1,2-Dichlorobenzene         | µg/l | 0.05 | NONE | < 0.05 | < 0.05 | I/S | < 0.05 |
| 1,4-Dichlorobenzene         | µg/l | 0.05 | NONE | < 0.05 | < 0.05 | I/S | < 0.05 |
| Bis(2-chloroisopropyl)ether | µg/l | 0.05 | NONE | < 0.05 | < 0.05 | I/S | < 0.05 |
| 2-Methylphenol              | µg/l | 0.05 | NONE | < 0.05 | < 0.05 | I/S | < 0.05 |
| Hexachloroethane            | µg/l | 0.05 | NONE | < 0.05 | < 0.05 | I/S | < 0.05 |
| Nitrobenzene                | µg/l | 0.05 | NONE | < 0.05 | < 0.05 | I/S | < 0.05 |
| 4-Methylphenol              | µg/l | 0.05 | NONE | < 0.05 | < 0.05 | I/S | < 0.05 |
| Isophorone                  | µg/l | 0.05 | NONE | < 0.05 | < 0.05 | I/S | < 0.05 |
| 2-Nitrophenol               | µg/l | 0.05 | NONE | < 0.05 | < 0.05 | I/S | < 0.05 |
| 2,4-Dimethylphenol          | µg/l | 0.05 | NONE | < 0.05 | < 0.05 | I/S | < 0.05 |
| Bis(2-chloroethoxy)methane  | µg/l | 0.05 | NONE | < 0.05 | < 0.05 | I/S | < 0.05 |
| 1,2,4-Trichlorobenzene      | µg/l | 0.05 | NONE | < 0.05 | < 0.05 | I/S | < 0.05 |
| 2,4-Dichlorophenol          | µg/l | 0.05 | NONE | < 0.05 | < 0.05 | I/S | < 0.05 |
| 4-Chloroaniline             | µg/l | 0.05 | NONE | < 0.05 | < 0.05 | I/S | < 0.05 |
| Hexachlorobutadiene         | µg/l | 0.05 | NONE | < 0.05 | < 0.05 | I/S | < 0.05 |
| 4-Chloro-3-methylphenol     | µg/l | 0.05 | NONE | < 0.05 | < 0.05 | I/S | < 0.05 |
| 2,4,6-Trichlorophenol       | µg/l | 0.05 | NONE | < 0.05 | < 0.05 | I/S | < 0.05 |
| 2,4,5-Trichlorophenol       | µg/l | 0.05 | NONE | < 0.05 | < 0.05 | I/S | < 0.05 |
| 2-Methylnaphthalene         | µg/l | 0.05 | NONE | < 0.05 | < 0.05 | I/S | < 0.05 |
| 2-Chloronaphthalene         | µg/l | 0.05 | NONE | < 0.05 | < 0.05 | I/S | < 0.05 |
| Dimethylphthalate           | µg/l | 0.05 | NONE | < 0.05 | < 0.05 | I/S | < 0.05 |
| 2,6-Dinitrotoluene          | µg/l | 0.05 | NONE | < 0.05 | < 0.05 | I/S | < 0.05 |
| 2,4-Dinitrotoluene          | µg/l | 0.05 | NONE | < 0.05 | < 0.05 | I/S | < 0.05 |
| Dibenzofuran                | µg/l | 0.05 | NONE | < 0.05 | < 0.05 | I/S | < 0.05 |
| 4-Chlorophenyl phenyl ether | µg/l | 0.05 | NONE | < 0.05 | < 0.05 | I/S | < 0.05 |
| Diethyl phthalate           | µg/l | 0.05 | NONE | < 0.05 | < 0.05 | I/S | < 0.05 |
| 4-Nitroaniline              | µg/l | 0.05 | NONE | < 0.05 | < 0.05 | I/S | < 0.05 |
| Azobenzene                  | µg/l | 0.05 | NONE | < 0.05 | < 0.05 | I/S | < 0.05 |
| Bromophenyl phenyl ether    | µg/l | 0.05 | NONE | < 0.05 | < 0.05 | I/S | < 0.05 |
| Hexachlorobenzene           | µg/l | 0.05 | NONE | < 0.05 | < 0.05 | I/S | < 0.05 |
| Carbazole                   | µg/l | 0.05 | NONE | < 0.05 | < 0.05 | I/S | < 0.05 |
| Dibutyl phthalate           | µg/l | 0.05 | NONE | < 0.05 | < 0.05 | I/S | < 0.05 |
| Anthraquinone               | µg/l | 0.05 | NONE | < 0.05 | < 0.05 | I/S | < 0.05 |
| Butyl benzyl phthalate      | µg/l | 0.05 | NONE | < 0.05 | < 0.05 | I/S | < 0.05 |

|                  |      |     |      |        |        |     |        |
|------------------|------|-----|------|--------|--------|-----|--------|
| 3+4-Methylphenol | µg/l | 0.1 | NONE | < 0.10 | < 0.10 | I/S | < 0.10 |
|------------------|------|-----|------|--------|--------|-----|--------|

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

**Analytical Report Number : 24-008072**

**Project / Site name: Barry Docks**

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

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

| Lab Sample Number | Sample Reference | Sample Number | Depth (m) | Sample Description *                           |
|-------------------|------------------|---------------|-----------|------------------------------------------------|
| 140460            | WS01             | None Supplied | 0.3       | Brown loam with stones                         |
| 140461            | WS02             | None Supplied | 0.30-0.50 | Brown loam and gravel                          |
| 140462            | WS02             | None Supplied | 0.80-0.90 | Brown loam and clay with gravel and stones     |
| 140463            | WS03             | None Supplied | 0.30-0.50 | Brown clay and sand with gravel                |
| 140464            | WS04             | None Supplied | 0.30-0.40 | Brown loam and sand with gravel and stones     |
| 140465            | WS05             | None Supplied | 0.10-0.20 | Brown loam with gravel and vegetation          |
| 140466            | WS06             | None Supplied | 0.30-0.80 | Brown loam and sand with brick and stones      |
| 140467            | WS06             | None Supplied | 1.60-1.90 | Brown loam and sand with brick and stones      |
| 140468            | WS07             | None Supplied | 0.30-0.70 | Brown loam and sand with gravel and tar        |
| 140469            | WS08             | None Supplied | 0.20-0.70 | Brown loam and clay with gravel and vegetation |

**Analytical Report Number : 24-008072**

**Project / Site name: Barry Docks**

**Water matrix abbreviations:**

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

| Analytical Test Name                                                 | Analytical Method Description                                                                                                                                         | Analytical Method Reference                                                                                   | Method number | Wet / Dry Analysis | Accreditation Status |
|----------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|---------------|--------------------|----------------------|
| Asbestos identification in Soil                                      | Asbestos Identification with the use of polarised light microscopy in conjunction with dispersion staining techniques                                                 | In-house method based on HSG 248, 2021                                                                        | A001B         | D                  | ISO 17025            |
| Organic matter (Automated) in soil                                   | Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate (Walkley Black Method)                   | In-house method                                                                                               | L009B         | D                  | MCERTS               |
| Sulphide in soil                                                     | Determination of sulphide in soil by acidification and heating to liberate hydrogen sulphide, trapped in an alkaline solution then assayed by ion selective electrode | In-house method                                                                                               | L010          | D                  | MCERTS               |
| Metals in water by ICP-MS (dissolved)                                | Determination of metals in water by acidification followed by ICP-MS. Accredited Matrices: SW, GW, PW except B=SW,GW, Hg=SW,PW, Al=SW,PW                              | In-house method based on USEPA Method 6020 & 200.8 for the determination of trace elements in water by ICP-MS | L012B         | W                  | ISO 17025            |
| Moisture Content                                                     | Moisture content, determined gravimetrically (up to 30°C)                                                                                                             | In-house method                                                                                               | L019B         | W                  | NONE                 |
| Stones content of soil                                               | Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight                                            | In-house method based on British Standard Methods and MCERTS requirements.                                    | L019B         | D                  | NONE                 |
| Elemental sulphur in soil                                            | Determination of elemental sulphur in soil by extraction in acetonitrile followed by HPLC                                                                             | In-house method based on Secondsite Property Holdings Guidance for Assessing and Managing Potential           | L021B         | D                  | MCERTS               |
| PCB's By GC-MS in soil                                               | Determination of PCB by extraction with hexane followed by GC-MS                                                                                                      | In-house method based on USEPA 8082                                                                           | L027B         | D                  | MCERTS               |
| Sulphide in water                                                    | Determination of sulphide in water by ion selective electrode                                                                                                         | In-house method                                                                                               | L029          | W                  | NONE                 |
| Metals in soil by ICP-OES                                            | Determination of metals in soil by aqua-regia digestion followed by ICP-OES                                                                                           | In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil                           | L038B         | D                  | MCERTS               |
| Boron, water soluble, in soil                                        | Determination of water soluble boron in soil by hot water extract followed by ICP-OES                                                                                 | In-house method based on Second Site Properties version 3                                                     | L038B         | D                  | MCERTS               |
| Sulphate, water soluble, in soil (16hr extraction)                   | Sulphate, water soluble, in soil (16hr extraction)                                                                                                                    | In-house method                                                                                               | L038B         | D                  | MCERTS               |
| Metals in water by ICP-OES (dissolved)                               | Determination of metals in water by acidification followed by ICP-OES. Accredited Matrices: SW, GW, PW, PrW (Al, Cu, Fe,Zn)                                           | In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil                           | L039B         | W                  | ISO 17025            |
| Speciated EPA-16 PAHs and/or Semi-volatile organic compounds in soil | Determination of semi-volatile organic compounds (including PAH) in soil by extraction in dichloromethane and hexane followed by GC-MS                                | In-house method based on USEPA 8270                                                                           | L064B         | D                  | MCERTS               |
| Total petroleum hydrocarbons with carbon banding by GC-MS in water   | Determination of total petroleum hydrocarbons in water by GC-MS/GC-MS HS with carbon banding aliphatic and aromatic                                                   | In-house method                                                                                               | L070B         | W                  | NONE                 |
| BTEX and/or Volatile organic compounds in soil                       | Determination of volatile organic compounds in soil by headspace GC-MS                                                                                                | In-house method based on USEPA 8260                                                                           | L073B         | W                  | MCERTS               |

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**Project / Site name: Barry Docks**

**Water matrix abbreviations:**

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

| Analytical Test Name                                                        | Analytical Method Description                                                                                                    | Analytical Method Reference                                                                            | Method number | Wet / Dry Analysis | Accreditation Status |
|-----------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|---------------|--------------------|----------------------|
| BTEX and/or Volatile organic compounds in water                             | Determination of volatile organic compounds in water by headspace GC-MS. Accredited matrices: SW PW GW                           | In-house method based on USEPA 8260                                                                    | L073B         | W                  | ISO 17025            |
| Total petroleum hydrocarbons with carbon banding by GC-FID/GC-MS HS in soil | Determination of total petroleum hydrocarbons in soil by GC-FID/GC-MS HS with carbon banding aliphatic and aromatic              | In-house method                                                                                        | L076B/L088    | D/W                | MCERTS               |
| Hexavalent chromium in soil                                                 | Determination of hexavalent chromium in soil by extraction in NaOH and addition of 1,5 diphenylcarbazide followed by colorimetry | In-house method                                                                                        | L080          | W                  | MCERTS               |
| Hexavalent chromium in water                                                | Determination of hexavalent chromium in water by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry        | In-house method by continuous flow analyser. Accredited Matrices SW, GW, PW                            | L080          | W                  | ISO 17025            |
| Free cyanide (low level) in water                                           | Determination of free cyanide by distillation followed by colorimetry. Accredited matrices SW, GW, PW                            | In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton | L080          | W                  | NONE                 |
| Free cyanide in soil                                                        | Determination of free cyanide by distillation followed by colorimetry                                                            | In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton | L080          | W                  | MCERTS               |
| Monohydric phenols (low level) in water                                     | Determination of phenols in water by continuous flow analyser. Accredited matrices: SW PW GW                                     | In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton | L080          | W                  | NONE                 |
| Monohydric phenols in soil                                                  | Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry            | In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton | L080          | W                  | MCERTS               |
| Total cyanide (low level) in water                                          | Determination of total cyanide by distillation followed by colorimetry. Accredited matrices: SW PW GW                            | In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton | L080          | W                  | NONE                 |
| Total cyanide in soil                                                       | Determination of total cyanide by distillation followed by colorimetry                                                           | In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton | L080          | W                  | MCERTS               |
| Total petroleum hydrocarbons by GC-MS HS in water                           | Determination of total petroleum hydrocarbons in water by GC-MS HS                                                               | In-house method                                                                                        | L088          | W                  | ISO 17025            |
| pH in soil (automated)                                                      | Determination of pH in soil by addition of water followed by automated electrometric measurement                                 | In-house method                                                                                        | L099          | D                  | MCERTS               |
| pH at 20°C in water (automated)                                             | Determination of pH in water by electrometric measurement. Accredited matrices: SW PW GW                                         | In-house method                                                                                        | L099          | W                  | ISO 17025            |
| Speciated EPA-16 PAHs and/or Semi-volatile organic compounds in water       | Determination of semi-volatile organic compounds (including PAH) in leachate by extraction in dichloromethane followed by GC-MS  | In-house method based on USEPA 8270                                                                    | L102B         | W                  | ISO 17025            |
| Phenols in water by GC-MS                                                   | Determination of phenols in water by GC-MS                                                                                       | In-house method                                                                                        | L102B         | W                  | NONE                 |

**Analytical Report Number : 24-008072**

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**Water matrix abbreviations:**

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

| Analytical Test Name | Analytical Method Description                                                                                            | Analytical Method Reference                                                         | Method number | Wet / Dry Analysis | Accreditation Status |
|----------------------|--------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------|--------------------|----------------------|
| Sulphate in water    | Determination of sulphate in water after filtration by acidification followed by ICP-OES. Accredited Matrices SW, GW, PW | In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil | L039B         | W                  | ISO 17025            |

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

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

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

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

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

## Information in Support of Analytical Results

### List of HWOL Acronyms and Operators

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

# - Data reported unaccredited due to quality control parameter failure associated with this result; other checks applied prior to reporting the data have been accepted. The result should be considered as being deviating and may be compromised

## - Quality control parameter has a high recovery (outside of limit); however the associated result is below the reporting limit, other checks applied prior to reporting the data have been accepted. The result should be considered as being deviating and may be compromised

### - Quality control parameter failure associated with this result; other checks applied prior to reporting the data have been accepted. The result should be considered as being deviating and may be compromised.

## Sample Deviation Report



**Analytical Report Number : 24-008072**

**Project / Site name: Barry Docks**

This deviation report indicates the sample and test deviations that apply to the samples submitted for analysis. Please note that the associated result(s) may be unreliable and should be interpreted with care.

Key: a - No sampling date b - Incorrect container c - Holding time d - Headspace e - Temperature

| Sample ID | Other ID | Sample Type | Lab Sample Number | Sample Deviation | Test Name                                                             | Test Ref | Test Deviation |
|-----------|----------|-------------|-------------------|------------------|-----------------------------------------------------------------------|----------|----------------|
| DOCK      | N/A      | W           | 140451            | c                | pH at 20°C in water (automated)                                       | L099     | c              |
| WS01      | N/A      | W           | 140452            | bc               | BTEX and/or Volatile organic compounds in water                       | L073B    | b              |
| WS01      | N/A      | W           | 140452            | bc               | pH at 20°C in water (automated)                                       | L099     | c              |
| WS02      | N/A      | W           | 140453            | c                | pH at 20°C in water (automated)                                       | L099     | c              |
| WS03      | N/A      | W           | 140454            | c                | pH at 20°C in water (automated)                                       | L099     | c              |
| WS04      | N/A      | W           | 140455            | c                | pH at 20°C in water (automated)                                       | L099     | c              |
| WS05      | N/A      | W           | 140456            | bc               | BTEX and/or Volatile organic compounds in water                       | L073B    | b              |
| WS05      | N/A      | W           | 140456            | bc               | pH at 20°C in water (automated)                                       | L099     | c              |
| WS06      | N/A      | W           | 140457            | c                | pH at 20°C in water (automated)                                       | L099     | c              |
| WS07      | N/A      | W           | 140458            | bc               | Phenols in water by GC-MS                                             | L102B    | b              |
| WS07      | N/A      | W           | 140458            | bc               | Speciated EPA-16 PAHs and/or Semi-volatile organic compounds in water | L102B    | b              |
| WS07      | N/A      | W           | 140458            | bc               | pH at 20°C in water (automated)                                       | L099     | c              |
| WS08      | N/A      | W           | 140459            | c                | pH at 20°C in water (automated)                                       | L099     | c              |

## **APPENDIX G – R&D66 Qualitative Risk Assessment**

## Annex 4

### Qualitative risk assessment

#### A4.1 Context

CIRIA RP599 Contaminated Land Risk Assessment Guide, provides a guide to good practice in assessing risks from contaminated land. This distinguishes between the processes of:

- **Risk estimation** – process of estimating risk that defined receptors will suffer harm.
- **Risk evaluation** – process of evaluating need for risk management action, with regard to magnitude of risks the level of uncertainty and, if remedial action is needed the objectives and broad costs and benefits.

At Phase 1 the **risk estimation** will take the form of a qualitative risk assessment, which will be entirely based on the conceptual model for each potential end-use of the site. Comments on level of uncertainty will also need to be included for each source-pathway-target linkage to allow the confidence in the assessed risks to be understood. The results of the qualitative risk assessment will allow the **risk evaluation** to be concisely described in the following chapters.

At Phase 2 (or later stages) the **risk estimation** will comprise a number of sequential steps all based on the conceptual model:

1. Interpretation of site investigation data with respect to relevant generic assessment criteria (Tier 1);
2. Interpretation of site investigation data with respect to site specific assessment criteria if appropriate (Tier 2);
3. Site specific qualitative risk assessment including input from Tier 1 and Tier 2 [this procedure].

Comments on level of uncertainty will also be required for through the interpretation of site investigation data and the qualitative risk assessment. The results of the qualitative risk assessment will allow the **risk evaluation** to be concisely described.

#### A4.2 Introduction

The following classification has been developed from DOE Guide to Risk Assessment and Risk Management for Environmental Protection and the Statutory Guidance on Contaminated Land (Defra September 2006). The methodology differs from that presented in Contaminated Land Risk Assessment, A Guide to Good Practice (CIRIA C552, 2001), particularly in terms of the definitions of classification of consequence, which include a consideration of immediacy of hazards.

The key to the classification is that the designation of risk is based upon the consideration of both:

- a) **the magnitude of the potential consequence (i.e. severity).**  
[takes into account both the potential severity of the hazard and the sensitivity of the receptor]
- b) **the magnitude of probability (i.e. likelihood).**  
[takes into account both the presence of the hazard and receptor and the integrity of the pathway]

**Annex 4** Qualitative risk assessment

**A4.3 Classification of consequence**

| Classification | Definition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Examples                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Severe</b>  | <p>Highly elevated concentrations likely to result in "significant harm" to human health as defined by the EPA 1990, Part 2A, if exposure occurs.</p> <p>Equivalent to EA Category 1 pollution incident including persistent and/or extensive effects on water quality; leading to closure of a potable abstraction point; major impact on amenity value or major damage to agriculture or commerce.</p> <p>Major damage to aquatic or other ecosystems, which is likely to result in a substantial adverse change in its functioning or harm to a species of special interest that endangers the long-term maintenance of the population.</p> <p>Catastrophic damage to crops, buildings or property.</p> | <p>Significant harm to humans is defined in circular 01/2006 as death, disease*, serious injury, genetic mutation, birth defects or the impairment of reproductive functions.</p> <p>Major fish kill in surface water from large spillage of contaminants from site.</p> <p>Highly elevated concentrations of List I and II substances present in groundwater close to small potable abstraction (high sensitivity).</p> <p>Explosion, causing building collapse (can also equate to immediate human health risk if buildings are occupied).</p> |
| <b>Medium</b>  | <p>Elevated concentrations which could result in "significant harm" to human health as defined by the EPA 1990, Part 2A if exposure occurs.</p> <p>Equivalent to EA Category 2 pollution incident including significant effect on water quality; notification required to abstractors; reduction in amenity value or significant damage to agriculture or commerce.</p> <p>Significant damage to aquatic or other ecosystems, which may result in a substantial adverse change in its functioning or harm to a species of special interest that may endanger the long-term maintenance of the population.</p> <p>Significant damage to crops, buildings or property.</p>                                   | <p>Significant harm to humans is defined in circular 01/2006 as death, disease*, serious injury, genetic mutation, birth defects or the impairment of reproductive functions.</p> <p>Damage to building rendering it unsafe to occupy e.g. foundation damage resulting in instability.</p> <p>Ingress of contaminants through plastic potable water pipes.</p>                                                                                                                                                                                   |
| <b>Mild</b>    | <p>Exposure to human health unlikely to lead to "significant harm".</p> <p>Equivalent to EA Category 3 pollution incident including minimal or short lived effect on water quality; marginal effect on amenity value, agriculture or commerce.</p> <p>Minor or short lived damage to aquatic or other ecosystems, which is unlikely to result in a substantial adverse change in its functioning or harm to a species of special interest that would endanger the long-term maintenance of the population.</p> <p>Minor damage to crops, buildings or property.</p>                                                                                                                                        | <p>Exposure could lead to slight short-term effects (e.g. mild skin rash).</p> <p>Surface spalling of concrete.</p>                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Minor</b>   | <p>No measurable effect on humans.</p> <p>Equivalent to insubstantial pollution incident with no observed effect on water quality or ecosystems.</p> <p>Repairable effects of damage to buildings, structures and services.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <p>The loss of plants in a landscaping scheme.</p> <p>Discoloration of concrete.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

\* For these purposes, disease is to be taken to mean an unhealthy condition of the body or a part of it and can include, for example, cancer, liver dysfunction or extensive skin ailments. Mental dysfunction is included only insofar as it is attributable to the effects of a pollutant on the body of the person concerned.

Qualitative risk assessment

**Annex 4**

#### A4.4 Classification of probability

(only applies if there is a possibility of a pollutant linkage being present)

| Category        | Definition                                                                                                                                                                                                                                                         | Examples                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| High likelihood | There is pollutant linkage and an event would appear very likely in the short-term and almost inevitable over the long-term, or there is evidence at the receptor of harm or pollution.                                                                            | <p>a) Elevated concentrations of toxic contaminants are present in soils in the top 0.5m in a residential garden.</p> <p>b) Ground/groundwater contamination could be present from chemical works, containing a number of USTs, having been in operation on the same site for over 50 years.</p>                                                                                                                             |
| Likely          | There is pollutant 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. | <p>a) Elevated concentrations of toxic contaminants are present in soils at depths of 0.5-1.0m in a residential garden, or the top 0.5m in public open space.</p> <p>b) Ground/groundwater contamination could be present from an industrial site containing a UST present between 1970 and 1990. The tank is known to be single skin. There is no evidence of leakage although there are no records of integrity tests.</p> |
| Low likelihood  | There is pollutant linkage and circumstances are possible under which an event could occur. However, it is by no means certain that even over a long period such an event would take place, and is less likely in the shorter term.                                | <p>a) Elevated concentrations of toxic contaminants are present in soils at depths &gt;1m in a residential garden, or 0.5-1.0m in public open space.</p> <p>b) Ground/groundwater contamination could be present on a light industrial unit constructed in the 1990s containing a UST in operation over the last 10 years – the tank is double skinned but there is no integrity testing or evidence of leakage.</p>         |
| Unlikely        | There is pollutant linkage but circumstances are such that it is improbable that an event would occur even in the very long-term.                                                                                                                                  | <p>a) Elevated concentrations of toxic contaminants are present below hardstanding.</p> <p>b) Light industrial unit &lt;10 yrs old containing a double-skinned UST with annual integrity testing results available.</p>                                                                                                                                                                                                      |

Note: A pollution linkage must first be established before probability is classified. If there is no pollution linkage then there is no potential risk. If there is no pollution linkage then there is no need to apply tests for probability and consequence.

For example if there is surface contamination and a major aquifer is present at depth, but this major aquifer is overlain by an aquiclude of significant thickness then there is no pollution linkage and the risks to the major aquifer are not assessed. The report should identify both the source and the receptor but state that because there is no linkage there are no potential risks.

#### A.4.5 The classification of risk

| Probability (likelihood) | Consequence       |                   |                   |               |
|--------------------------|-------------------|-------------------|-------------------|---------------|
|                          | Severe            | Medium            | Mild              | Minor         |
| High likelihood          | Very high risk    | High risk         | Moderate risk     | Low risk      |
| Likely                   | High risk         | Moderate risk     | Moderate/low risk | Low risk      |
| Low likelihood           | Moderate risk     | Moderate/low risk | Low risk          | Very low risk |
| Unlikely                 | Moderate/low risk | Low risk          | Very low risk     | Very low risk |

**Annex 4** Qualitative risk assessment

**A4.5.1 Description of the classified risks**

**Very high risk**

There is a high probability that severe harm could arise to a designated receptor from an identified hazard at the site without remediation action OR there is evidence that severe harm to a designated receptor is already occurring. Realisation of that risk is likely to present a substantial liability to be site owner/occupier. Investigation is required as a matter of urgency and remediation works likely to follow in the short-term.

**High risk**

Harm is likely to arise to a designated receptor from an identified hazard at the site without remediation action. Realisation of the risk is likely to present a substantial liability to the site owner/occupier. Investigation is required as a matter of urgency to clarify the risk. Remediation works may be necessary in the short-term and are likely over the longer term.

**Moderate risk**

It is possible that harm could arise to a designated receptor from an identified hazard. However, it is either relatively unlikely that any such harm would be severe, and if any harm were to occur it is more likely, that the harm would be relatively mild. Further investigative work is normally required to clarify the risk and to determine the potential liability to site owner/occupier. Some remediation works may be required in the longer term.

**Low risk**

It is possible that harm could arise to a designated receptor from identified hazard, but it is likely at worst, that this harm if realised would normally be mild. It is unlikely that the site owner/occupier would face substantial liabilities from such a risk. Further investigative work (which is likely to be limited) to clarify the risk may be required. Any subsequent remediation works are likely to be relatively limited.

**Very low risk**

It is a low possibility that harm could arise to a designated receptor, but it is likely at worst, that this harm if realised would normally be mild or minor.

**No potential risk**

There is no potential risk if no pollution linkage has been established.

| Definitions              |                                                                                                                                                                                                             |
|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Hazard</b>            | A property or situation which in certain circumstances could lead to harm. [The properties of different hazards must be assessed in relation to their potential to affect the various different receptors]. |
| <b>Risk</b>              | A combination of the probability or frequency of the occurrences of a defined hazard <b>AND</b> the magnitude of the consequences of that occurrence.                                                       |
| <b>Probability</b>       | The mathematical expression of the chance of a particular event in a given period of time [e.g. probability of 0.2 is equivalent to 20% or a 1 in 5 chance].                                                |
| <b>Likelihood</b>        | Probability; the state or fact of being likely.                                                                                                                                                             |
| <b>Consequences</b>      | The adverse effects (or harm) arising from a defined hazard which impairs the quality of the environment or human health in the short or longer term.                                                       |
| <b>Pollution linkage</b> | An identified pathway is capable of exposing a receptor to a contaminant and that contaminant is capable of harming the receptor.                                                                           |