



# NON-CORE DRILL HOLE - GEOLOGICAL LOG

HOLE NO : BH-003

CLIENT : MPDC  
LOCATION : Macquarie Point

PROJECT : Macquarie Point GI

FILE / JOB NO : PS212776  
SHEET : 1 OF 3

POSITION : E: 527405.03, N: 5252447.51 (MGA2020-55) SURFACE ELEVATION : 5.04 (AHD) ANGLE FROM HORIZONTAL : 90°  
RIG TYPE : MRS XL Max MOUNTING : Track CONTRACTOR : SWD DRILLER : GB  
DATE STARTED : 16/4/2024 DATE COMPLETED : 17/4/2024 DATE LOGGED : 17/4/2024 LOGGED BY : TS CHECKED BY : JRG

| DRILLING          |       |                      |                     |  | MATERIAL                |             |              |   |                    |                              |   |
|-------------------|-------|----------------------|---------------------|--|-------------------------|-------------|--------------|---|--------------------|------------------------------|---|
| PROGRESS          |       | DRILLING PENETRATION | GROUND WATER LEVELS | SAMPLES & FIELD TESTS                      | DEPTH (m)<br>RL (m AHD) | GRAPHIC LOG | GROUP SYMBOL | MATERIAL DESCRIPTION<br>Soil Type, Colour, Plasticity or Particle Characteristic<br>Secondary and Minor Components                        | MOISTURE CONDITION | CONSISTENCY RELATIVE DENSITY | STRUCTURE & Other Observations                      |
| DRILLING & CASING | WATER |                      |                     |  |                         |             |              |   |                    |                              |   |
|                   |       | F                    |                     |  | 0.0                     |             |              | FILL Clayey GRAVEL: fine to medium, sub-angular to angular, brown, with sand.   | D                  |                              | FILL<br>Acid Sulfate Sampling every 0.5m to bedrock |
|                   |       | H                    |                     |  | 1.0                     |             |              | FILL CONCRETE: grey.  |                    |                              |   |
|                   |       | F                    |                     | 1.50m<br>SPT<br>5.11,16/115mm<br>HB<br>N=R | 1.40m                   |             |              | FILL Sandy CLAY: low plasticity, black with red brown, trace gravel; distinct aromatic hydrocarbon odour.                                 | D - M              |                              | 1.40-1.60: PP=375kPa                                |
|                   |       | F                    |                     | 1.92m                                      | 1.60m                   |             |              | FILL Sandy GRAVEL: fine to coarse, red with grey, with sandstone cobbles and possible brick gravels.                                      |                    |                              |   |
|                   |       | F                    |                     |  | 2.0                     |             |              |   | D                  |                              |   |
|                   |       | F                    |                     |  | 2.90m                   |             |              |   |                    |                              |   |
|                   |       | F                    |                     | SPT<br>10/10mm<br>HB<br>N=R<br>8.01m       | 3.00m                   |             |              | FILL Silty CLAY: high plasticity, dark grey, trace subangular to angular gravel.  | D - M              |                              | 2.90-3.00: PP=205kPa<br>ROCK                        |
|                   |       |                      | Not Encountered     | Is(50)<br>I=4.76<br>MPa                    | 3.0                     |             |              | DOLERITE: fine to medium, sub-angular to angular, pale to dark grey, inferred as slightly weathered to fresh, high to very high strength. |                    |                              |   |
|                   |       | VH                   |                     | Is(50)<br>I>7.80<br>MPa                    | 4.0                     |             |              |   | D                  |                              |   |
|                   |       |                      |                     | Is(50)<br>I=6.73<br>MPa                    | 5.0                     |             |              |   |                    |                              |   |
|                   |       |                      |                     |  | 6.0                     |             |              |   |                    |                              |   |
|                   |       |                      |                     |  | 6.45m                   |             |              |   |                    |                              |   |
|                   |       |                      |                     |  | 7.0                     |             |              | Continued as Cored Drill Hole   |                    |                              |   |
|                   |       |                      |                     |  | 8.0                     |             |              |   |                    |                              |   |

See Explanatory Notes for details of abbreviations & basis of descriptions.

WSP-AU-GLB Log IS AU BOREHOLE 2A PS212776\_MASTER.GPJ <DrawingFiles> 18/6/2024 16:42 10:03:00:09 D:\git\Lab and H. Silu\Tech-DGD [Lib: WSP-5.05.2.2023-08-23 Proj: WSP-5.04.0.2023-04-11



# CORED DRILL HOLE LOG

HOLE NO : BH-003

CLIENT : MPDC  
LOCATION : Macquarie Point

PROJECT : Macquarie Point GI

FILE / JOB NO : PS212776  
SHEET : 2 OF 3

POSITION : E: 527405.03, N: 5252447.51 (MGA2020-55) SURFACE ELEVATION : 5.04 (AHD) ANGLE FROM HORIZONTAL : 90°  
 RIG TYPE : MRS XL Max MOUNTING : Track CONTRACTOR : SWD DRILLER : GB  
 DATE STARTED : 16/4/2024 DATE COMPLETED : 17/4/2024 DATE LOGGED : 17/4/2024 LOGGED BY : TS CHECKED BY : JRG  
 CASING DIAMETER : 140 mm BARREL (Length) : 1.50 m BIT : IMPREG BIT CONDITION : Good

| DRILLING             |       |  |         | MATERIAL   |           |                |  | FRACTURES  |                        |                        |                        |                        |   |        |  |
|----------------------|-------|--|---------|--|-----------|----------------|--|------------|------------------------|------------------------|------------------------|------------------------|---|--------|--|
| PROGRESS             |       | CORE LOSS<br>(CORE LOSS<br>DRILL DEPTH<br>%) | ROD (%) | SAMPLES &<br>FIELD TESTS                           | DEPTH (m) | GRAPHIC<br>LOG | DESCRIPTION<br>ROCK TYPE : Colour, Grain size, Structure<br>(texture, fabric, mineral composition, hardness<br>alteration, cementation, etc as applicable) | WEATHERING | ESTIMATED<br>STRENGTH  |                        |                        |                        | NATURAL<br>FRACTURE<br>(mm)                   | VISUAL | ADDITIONAL DATA<br>(joints, partings, seams, zones, etc)<br>Description, orientation, infilling<br>or coating, shape, roughness,<br>thickness, other |
| DRILLING<br>& CASING | WATER |  |         |  |           |                |  |            | UCS-194 <sub>200</sub> | UCS-194 <sub>200</sub> | UCS-194 <sub>200</sub> | UCS-194 <sub>200</sub> |   |        |  |
|                      |       |  |         |  | 0.0       |                |  |            |                        |                        |                        |                        |   |        |  |
|                      |       |  |         |  | 1.0       |                |  |            |                        |                        |                        |                        |   |        |  |
|                      |       |  |         |  | 2.0       |                |  |            |                        |                        |                        |                        |   |        |  |
|                      |       |  |         |  | 3.0       |                |  |            |                        |                        |                        |                        |   |        |  |
|                      |       |  |         |  | 4.0       |                |  |            |                        |                        |                        |                        |   |        |  |
|                      |       |  |         |  | 5.0       |                |  |            |                        |                        |                        |                        |   |        |  |
|                      |       |  |         |  | 6.0       |                |  |            |                        |                        |                        |                        |   |        |  |
|                      |       |  |         |  | 6.45m     |                | 6.45m START CORING AT 6.45m  |            |                        |                        |                        |                        |   |        |  |
|                      |       | 0%<br>LOSS                                   | 100     | 6.70m<br>UCS<br>=138 MPa                           | 7.0       |                | DOLERITE: fine to medium grained, dark grey,<br>phaneritic, equigranular.  | FR         |                        |                        |                        |                        | J, 55°, VN, PR, RF<br>J, 10°, VN, PR, RF, Zeo |        |  |
|                      |       | 7.80<br>0%<br>LOSS                           | 100     | Is(50)<br>D>8.20<br>MPa<br>Is(50)<br>A>6.95<br>MPa | 8.0       |                |  |            |                        |                        |                        |                        | J, 0°, CN, PR, RF<br>J, 55°, CN, PR, RF       |        |  |
|                      |       |  |         | Is(50)<br>D>7.23<br>MPa<br>Is(50)                  |           |                |  |            |                        |                        |                        |                        |   |        |  |

See Explanatory Notes for details of abbreviations & basis of descriptions.

WSP-AU-GLB Log IS AU CORED BOREHOLE 2A PS212776 MASTER.GPJ -> DrawingFile> 18/6/2024 12:10 10.03.00.09 Datalab and In Situ Tool - DGD | Lib: WSP 5.03.2 2023-08-23 Proj: WSP 5.04.0 2023-04-11



# CORED DRILL HOLE LOG

HOLE NO : BH-003

CLIENT : MPDC  
LOCATION : Macquarie Point

PROJECT : Macquarie Point GI

FILE / JOB NO : PS212776  
SHEET : 3 OF 3

|   |                                |                             |
|---|--------------------------------|-----------------------------|
| POSITION : E: 527405.03, N: 5252447.51 (MGA2020-55) | SURFACE ELEVATION : 5.04 (AHD) | ANGLE FROM HORIZONTAL : 90° |
| RIG TYPE : MRS XL Max                               | MOUNTING : Track               | CONTRACTOR : SWD            |
| DRILLER : GB  | DATE STARTED : 16/4/2024       | DATE COMPLETED : 17/4/2024  |
| DATE LOGGED : 17/4/2024                             | LOGGED BY : TS                 | CHECKED BY : JRG            |
| CASING DIAMETER : 140 mm                            | BARREL (Length) : 1.50 m       | BIT : IMPREG                |
|   |                                | BIT CONDITION : Good        |


| DRILLING          |       |                             |         | MATERIAL                               |           |             | FRACTURES  |            |  |                       |        |  |
|-------------------|-------|-----------------------------|---------|--|-----------|-------------|--|------------|--|-----------------------|--------|--|
| DRILLING & CASING | WATER | CORE LOSS (CORE LOSS FUN %) | ROD (%) | SAMPLES & FIELD TESTS                  | DEPTH (m) | GRAPHIC LOG | DESCRIPTION<br>ROCK TYPE : Colour, Grain size, Structure (texture, fabric, mineral composition, hardness alteration, cementation, etc as applicable) | WEATHERING | ESTIMATED STRENGTH<br>UCS=194 MPa<br>● - Axial O - Diametral<br>- UCS<br>- UCS | NATURAL FRACTURE (mm) | VISUAL | ADDITIONAL DATA<br>(joints, partings, seams, zones, etc)<br>Description, orientation, infilling or coating, shape, roughness, thickness, other |
|                   |       |                             |         |  |           |             |  |            |  |                       |        |  |
|                   |       | 0% LOSS                     | 100     | A>5.81 MPa                             | 8.0       |             | DOLERITE: fine to medium grained, dark grey, phaneritic, equigranular. (continued)   | FR         |  |                       |        | J, 15°, CN, PR, RF   |
|                   |       | 9.37                        | 100     | Is(50) D=2.00 MPa<br>Is(50) A>6.81 MPa | 9.0       |             |  |            |  |                       |        | V, 10°, SN, PR, RF, Fe, Zeo, 2mm<br>J, 5°, SN, PR, RF, Fe  |
|                   |       | 10.90                       | 100     | Is(50) D=2.30 MPa<br>Is(50) A=5.80 MPa | 10.0      |             | 11.32m-11.35m: xenolith  |            |  |                       |        | J, 0°, CN, PR, RF<br>V, 65°, CT, PR, RF, Zeo, 5mm  |
|                   |       | 10.90                       | 100     | Is(50) D=5.19 MPa<br>Is(50) A=7.45 MPa | 11.0      |             |  |            |  |                       |        | J, 0°, CN, PR, RF<br>J, 0-5°, SN, PR, RF   |
|                   |       | 12.45                       | 100     | Is(50) D>7.79 MPa<br>Is(50) A=7.72 MPa | 12.0      |             |  |            |  |                       |        |  |
|                   |       | 13.94                       | 100     | Is(50) D=3.75 MPa<br>Is(50) A=6.79 MPa | 13.0      |             |  |            |  |                       |        | J, 0°, SN, PR, RF, Fe  |
|                   |       | 13.94                       |         | Is(50) D>6.96 MPa<br>Is(50) A=4.37 MPa | 14.0      | 13.94m      | Hole Terminated at 13.94 m<br>Target depth<br>Grouted to Surface   |            |  |                       |        |  |
|                   |       |                             |         |  | 15.0      |             |  |            |  |                       |        |  |
|                   |       |                             |         |  | 16.0      |             |  |            |  |                       |        |  |

WSP-AU-GLB-Log-IS-AU-CORED-BOREHOLE-2A-PS212776-MASTER.GPJ -<DrawingFile>- 18/6/2024 12:10 10.03.00.09 Dargal Lab and In Situ Tool - DGD | Lib: WSP-5.03.2 2023-08-23 Proj: WSP-5.04.0 2023-04-11

See Explanatory Notes for details of abbreviations & basis of descriptions.




PointID : BH-003 Depth Range: 0.00 - 1.50 m

|  |   |                        |                  |           |
|--|---|------------------------|------------------|-----------|
|  | TITLE<br><br>MPDC<br>Macquarie Point<br>Macquarie Point GI<br>Core Photo - BH-003 | DRAWN                  | DATE             | 18/6/2024 |
|  |   | CHECKED                | DATE             | 18/6/2024 |
|  |   | SCALE                  | Not To Scale     | A4        |
|  |   | PROJECT No<br>PS212776 | FIGURE No<br>1/7 |           |




PointID : BH-003 Depth Range: 1.50 - 3.00 m

|  |   |                        |                  |           |
|--|---|------------------------|------------------|-----------|
|  | TITLE<br><br>MPDC<br>Macquarie Point<br>Macquarie Point GI<br>Core Photo - BH-003 | DRAWN                  | DATE             | 18/6/2024 |
|  |   | CHECKED                | DATE             | 18/6/2024 |
|  |   | SCALE                  | Not To Scale     | A4        |
|  |   | PROJECT No<br>PS212776 | FIGURE No<br>2/7 |           |




PointID : BH-003 Depth Range: 3.00 - 4.80 m

|  |   |                        |                  |           |
|--|---|------------------------|------------------|-----------|
|  | TITLE<br><br>MPDC<br>Macquarie Point<br>Macquarie Point GI<br>Core Photo - BH-003 | DRAWN                  | DATE             | 18/6/2024 |
|  |   | CHECKED                | DATE             | 18/6/2024 |
|  |   | SCALE                  | Not To Scale     | A4        |
|  |   | PROJECT No<br>PS212776 | FIGURE No<br>3/7 |           |




PointID : BH-003 Depth Range: 4.80 - 6.00 m

|  |   |            |              |           |
|--|---|------------|--------------|-----------|
|  | TITLE<br><br>MPDC<br>Macquarie Point<br>Macquarie Point GI<br>Core Photo - BH-003 | DRAWN      | DATE         | 18/6/2024 |
|  |   | CHECKED    | DATE         | 18/6/2024 |
|  |   | SCALE      | Not To Scale | A4        |
|  |   | PROJECT No | PS212776     | FIGURE No |




PointID : BH-003 Depth Range: 6.00 - 6.45 m

|  |   |            |              |           |           |
|--|---|------------|--------------|-----------|-----------|
|  | TITLE<br><br>MPDC<br>Macquarie Point<br>Macquarie Point GI<br>Core Photo - BH-003 | DRAWN      | DATE         | 18/6/2024 |           |
|  |   | CHECKED    | DATE         | 18/6/2024 |           |
|  |   | SCALE      | Not To Scale |           | A4        |
|  |   | PROJECT No | PS212776     |           | FIGURE No |




PointID : BH-003 Depth Range: 6.45 - 10.00 m

|  |   |            |              |           |     |
|--|---|------------|--------------|-----------|-----|
|  | TITLE<br><br>MPDC<br>Macquarie Point<br>Macquarie Point GI<br>Core Photo - BH-003 | DRAWN      | DATE         | 18/6/2024 |     |
|  |   | CHECKED    | DATE         | 18/6/2024 |     |
|  |   | SCALE      | Not To Scale |           | A4  |
|  |   | PROJECT No | PS212776     | FIGURE No | 6/7 |



PointID : BH-003 Depth Range: 10.00 - 13.94 m

|  |   |                        |                  |           |
|--|---|------------------------|------------------|-----------|
|  | TITLE<br><br>MPDC<br>Macquarie Point<br>Macquarie Point GI<br>Core Photo - BH-003 | DRAWN                  | DATE             | 18/6/2024 |
|  |   | CHECKED                | DATE             | 18/6/2024 |
|  |   | SCALE                  | Not To Scale     | A4        |
|  |   | PROJECT No<br>PS212776 | FIGURE No<br>7/7 |           |