



NON-CORE DRILL HOLE - GEOLOGICAL LOG

HOLE NO : BH-011

CLIENT : MPDC
LOCATION : Macquarie Point

PROJECT : Macquarie Point GI

FILE / JOB NO : PS212776
SHEET : 1 OF 4

POSITION : E: 527499.65, N: 5252523.21 (MGA2020-55)	SURFACE ELEVATION : 5.28 (AHD)	ANGLE FROM HORIZONTAL : 90°
RIG TYPE : MRS XL Max	MOUNTING : Track	CONTRACTOR : SWD
DRILLER : GB	DATE STARTED : 22/4/2024	DATE COMPLETED : 24/4/2024
DATE LOGGED : 23/4/2024	LOGGED BY : TS	CHECKED BY : JRG

DRILLING				MATERIAL								
PROGRESS												
DRILLING & CASING	WATER	DRILLING PENETRATION	GROUND WATER LEVELS	SAMPLES & FIELD TESTS	DEPTH (m) RL (m AHD)	GRAPHIC LOG	GROUP SYMBOL	MATERIAL DESCRIPTION Soil Type, Colour, Plasticity or Particle Characteristic Secondary and Minor Components	MOISTURE CONDITION	CONSISTENCY	RELATIVE DENSITY	STRUCTURE & Other Observations
					0.0			FILL Sandy GRAVEL: fine to medium, sub-angular to angular, grey.				FILL Acid Sulfate Sampling every 0.5m to bedrock
					0.20m			FILL Gravelly SAND: medium to coarse grained, brown, trace coarse grained gravel, trace cobbles, trace clay.		D		
					0.80m							
					0.90m			FILL Sandy GRAVEL: medium to coarse, sub-angular to angular, red, brown, with crushed brick, wood.				
					1.0			FILL Silty Gravelly CLAY: black to dark grey, with fine to medium grained gravels, building waste fragments (glass, nails, PVC).		w<PL		
					1.60m			FILL Silty Gravelly CLAY: brown mottled green, fine to medium grained gravel, sub-angular to angular, trace coarse grained sandstone gravel.				
					2.0					w<PL		2.50: PP=235kPa
					3.0			FILL SAND: medium grained, uniform, grey green.		M - W		
					3.00m			FILL Silty CLAY: grey to dark brown, with medium grained gravel, sub-angular to angular, trace cobbles.		w<PL - w=PL		3.10-3.50: PP=50kPa
					3.30m							
					3.45m			Sandy CLAY: medium plasticity, pale brown mottled green-brown and grey, sand is fine to medium grained; with silt; trace sandstone gravel and cobbles. 3.50m: distinct hydrocarbon odour, oil		w=PL	F	ESTUARINE SOIL
					4.0							4.20: PP=200kPa
					4.50m			Clayey SAND: fine to medium grained, uniform, black with yellow brown, with sea shells, trace sub-rounded pebbles, distinct hydrocarbon odour, oil in sample.		W	St - VSt	
					4.95m							5.00: PP=125kPa
					5.15m			5.00m: becoming black			L - MD	5.20-6.00: PP=40kPa
					5.60m					M		
					6.00m			DOLERITE: fine to medium grained, pale grey to brown, extremely weathered, medium strength.				ROCK
					6.0							
					7.0							
					7.40m			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 12:24 10:03:00:09 D:\git\Lab and H_Situ_Tech - DGD [Lib: WSP-5.05.2.2023-08-23 Pjt: WSP-5.04.0.2023-04-11



CORED DRILL HOLE LOG

HOLE NO : BH-011

CLIENT : MPDC
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FILE / JOB NO : PS212776
SHEET : 2 OF 4

POSITION : E: 527499.65, N: 5252523.21 (MGA2020-55)	SURFACE ELEVATION : 5.28 (AHD)	ANGLE FROM HORIZONTAL : 90°
RIG TYPE : MRS XL Max	MOUNTING : Track	CONTRACTOR : SWD
DRILLER : GB	DATE STARTED : 22/4/2024	DATE COMPLETED : 24/4/2024
DATE LOGGED : 23/4/2024	LOGGED BY : TS	CHECKED BY : JRG
CASING DIAMETER : 150 mm	BARREL (Length) : 1.50 m	BIT : IMPREG RC10
		BIT CONDITION : Good

DRILLING				MATERIAL				FRACTURES							
PROGRESS		CORE LOSS (% OF DRILL DEPTH)	ROD (%)	SAMPLES & FIELD TESTS	DEPTH (m)	GRAPHIC LOG	DESCRIPTION ROCK TYPE : Colour, Grain size, Structure (texture, fabric, mineral composition, hardness alteration, cementation, etc as applicable)	WEATHERING	ESTIMATED STRENGTH				NATURAL FRACTURE (mm)	VISUAL	ADDITIONAL DATA (joints, partings, seams, zones, etc) Description, orientation, infilling or coating, shape, roughness, thickness, other
DRILLING & CASING	WATER								UCS-154 ₂₀₀	UCS-154 ₄₀₀	UCS-154 ₆₀₀	UCS-154 ₈₀₀			
					0.0										
					1.0										
					2.0										
					3.0										
					4.0										
					5.0										
					6.0										
					7.0										
					7.40m		7.40m START CORING AT 7.40m								
					7.50-8.00		DOLERITE: pale grey to brown, extremely weathered, 30-40% clay with core stones.	XW							7.50-12.80: No true defects, core stones in clay matrix
					8.0										

WSP-AU-GLB Log IS AU CORED BOREHOLE 2A PS212776_MASTER.GPJ <-DrawingFile>> 18/6/2024 12:24 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

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



CORED DRILL HOLE LOG

HOLE NO : BH-011

CLIENT : MPDC
LOCATION : Macquarie Point

PROJECT : Macquarie Point GI

FILE / JOB NO : PS212776
SHEET : 3 OF 4

POSITION : E: 527499.65, N: 5252523.21 (MGA2020-55)	SURFACE ELEVATION : 5.28 (AHD)	ANGLE FROM HORIZONTAL : 90°
RIG TYPE : MRS XL Max	MOUNTING : Track	CONTRACTOR : SWD
DRILLER : GB	DATE STARTED : 22/4/2024	DATE COMPLETED : 24/4/2024
DATE LOGGED : 23/4/2024	LOGGED BY : TS	CHECKED BY : JRG
CASING DIAMETER : 150 mm	BARREL (Length) : 1.50 m	BIT : IMPREG RC10
		BIT CONDITION : Good

DRILLING				MATERIAL				FRACTURES							
DRILLING & CASING	WATER	CORE LOSS (% LOSS) DRILL DEPTH	ROD (%)	SAMPLES & FIELD TESTS	DEPTH (m)	GRAPHIC LOG	DESCRIPTION ROCK TYPE : Colour, Grain size, Structure (texture, fabric, mineral composition, hardness alteration, cementation, etc as applicable)	WEATHERING	ESTIMATED STRENGTH				NATURAL FRACTURE (mm)	VISUAL	ADDITIONAL DATA (joints, partings, seams, zones, etc) Description, orientation, infilling or coating, shape, roughness, thickness, other
									UCS-154 _{min}	UCS	Diametral	UCS			
HQ3 85-90% RETURN					8.0		DOLERITE: pale grey to brown, extremely weathered, 30-40% clay with core stones. (continued)	XW							
		0% LOSS	0		8.40										
		0% LOSS	0		9.10										
		0% LOSS	0	Is(50) I=2.14 MPa	9.45										
		0% LOSS	0		9.60			NO CORE 0.20m (9.60-9.80)							
		33% LOSS	0		9.80										
		0% LOSS	0	Is(50) I=2.00 MPa	10.20			DOLERITE: pale grey to brown, extremely weathered, 30-40% clay with core stones.							
		0% LOSS	0		10.88										
		0% LOSS	0		11.61										
		0% LOSS	0	Is(50) D=4.94 MPa Is(50) A=4.07 MPa	12.08										
		0% LOSS	0	Is(50) I=4.25 MPa	12.80										
		0% LOSS	34		13.0		DOLERITE: fine to medium grained, pale grey-blue, phaneritic.	SW						J, 35°, CT, PR, RF, clay J, 65°, CT, PR, RF, Zeo infill, 3mm J, 50°, VN, PR, RF, Fe J, 80°, VN, PR, RF, Fe J, 70°, VN, PR, RF, Fe J, 20°, SN, PR, RF, Fe J, 45°, SN, PR, RF, Fe	
		0% LOSS	0	Is(50) D=5.42 MPa Is(50) A=4.91 MPa	13.67			FR						J, 20°, SN, PR, RF, Fe J, 80°, VN, PR, RF, Zeo, Cal J, 25°, SN, PR, RF, Fe J, 20°, VN, PR, RF, Zeo, gravel J, 5°, VN, PR, RF, Zeo J, 5°, VN, PR, RF, Cal J, 80°, VN, PR, RF, Zeo CS, clay, 21mm, PP=175-310kPa J, 80°, VN, PR, RF, Zeo, clay CS, clay with Zeo, 30mm, PP=150-250kPa J, 20°, VN, PR, RF, clay J, 80°, VN, PR, RF, Zeo, Chl	
		0% LOSS	33		14.10										
		0% LOSS	49	Is(50) D>7.31 MPa Is(50) A=1.97 MPa	14.70										
		0% LOSS	82		15.21										
					15.72m										
					UCS =96 MPa										
					16.0									J, 65°, VN, PR, RF, Zeo, Chl	

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WSP-AU-GLB Log IS AU CORED BOREHOLE 2A PS212776_MASTER.GPJ <DrawingFile> 18/6/2024 12:24 10.03.00.09 Dangel Lab 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-011

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FILE / JOB NO : PS212776
SHEET : 4 OF 4

POSITION : E: 527499.65, N: 5252523.21 (MGA2020-55)	SURFACE ELEVATION : 5.28 (AHD)	ANGLE FROM HORIZONTAL : 90°
RIG TYPE : MRS XL Max	MOUNTING : Track	CONTRACTOR : SWD
DRILLER : GB	DATE STARTED : 22/4/2024	DATE COMPLETED : 24/4/2024
DATE LOGGED : 23/4/2024	LOGGED BY : TS	CHECKED BY : JRG
CASING DIAMETER : 150 mm	BARREL (Length) : 1.50 m	BIT : IMPREG RC10
		BIT CONDITION : Good


DRILLING				MATERIAL			FRACTURES													
DRILLING & CASING	WATER	CORE LOSS (% LOSS) DRILL DEPTH	ROD (%)	SAMPLES & FIELD TESTS	DEPTH (m)	GRAPHIC LOG	DESCRIPTION ROCK TYPE : Colour, Grain size, Structure (texture, fabric, mineral composition, hardness alteration, cementation, etc as applicable)	WEATHERING	ESTIMATED STRENGTH UCS=194 ₂₀₀ ● - Axial O - Diametral ■ - UCS	NATURAL FRACTURE (mm)	VISUAL	ADDITIONAL DATA (joints, partings, seams, zones, etc) Description, orientation, infilling or coating, shape, roughness, thickness, other								
													PROGRESS	DEPTH (m)	WEATHERING	ESTIMATED STRENGTH	NATURAL FRACTURE	ADDITIONAL DATA		
		0% LOSS	82	Is(50) D=6.40 MPa Is(50) A=2.13 MPa	16.0		DOLERITE: fine to medium grained, pale grey-blue, phaneritic. (continued)	FR				<ul style="list-style-type: none"> J, 5° CN, PR, RF J, 85 - 90°, VN, PR, RF, Zeo, Cal J, 5°, VN, PR, RF J, 65°, VN, PR, RF, Zeo, Cal J, 65 - 90°, VN, PR, RF, Zeo, Cal J, 75 - 85°, VN, PR, RF, Zeo, Cal J, 10°, SN, PR, RF, Fe J, 5°, SN, PR, RF J, 10°, SN, PR, RF, Zeo, Cal J, 50°, SN, PR, RF, Zeo J, 5°, CN, PR, RF J, 70 - 85°, CT, PR, RF, Zeo, Cal J, 5°, VN, PR, RF, Zeo, Cal J, 5°, VN, PR, RF, Zeo, Cal 								
		16.80																		
		0% LOSS	75										17.0							
		17.44											18.0							
		0% LOSS	61	Is(50) D=3.72 MPa Is(50) A=5.85 MPa	18.0															
		18.40				18.40m														
					19.0		Hole Terminated at 18.40 m Target depth Grouted to Surface													
					20.0															
					21.0															
					22.0															
					23.0															
					24.0															

WSP-AU-GLB-Log-IS-AU-CORED-BOREHOLE-2A-PS212776-MASTER.GPJ -<DrawingFile>> 18/6/2024 12:24 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

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PointID : BH-011 Depth Range: 0.00 - 1.60 m

	TITLE MPDC Macquarie Point Macquarie Point GI Core Photo - BH-011	DRAWN	DATE	18/6/2024
		CHECKED	DATE	18/6/2024
		SCALE	Not To Scale	A4
		PROJECT No PS212776	FIGURE No	1/8




PointID : BH-011 Depth Range: 1.60 - 3.80 m

	TITLE MPDC Macquarie Point Macquarie Point GI Core Photo - BH-011	DRAWN	DATE
		CHECKED	DATE
		SCALE	FIGURE No
		PROJECT No	FIGURE No
		18/6/2024	18/6/2024
		Not To Scale	A4
		PS212776	2/8




PointID : BH-011 Depth Range: 3.80 - 5.00 m

	TITLE MPDC Macquarie Point Macquarie Point GI Core Photo - BH-011	DRAWN	DATE	18/6/2024
		CHECKED	DATE	18/6/2024
		SCALE	Not To Scale	A4
		PROJECT No PS212776	FIGURE No	3/8




PointID : BH-011 Depth Range: 5.00 - 7.00 m

	TITLE	DRAWN	DATE
	MPDC Macquarie Point Macquarie Point GI Core Photo - BH-011	CHECKED	DATE
		SCALE	FIGURE No
		PROJECT No	
		PS212776	4/8




PointID : BH-011 Depth Range: 7.00 - 7.40 m

	TITLE MPDC Macquarie Point Macquarie Point GI Core Photo - BH-011	DRAWN	DATE	18/6/2024
		CHECKED	DATE	18/6/2024
		SCALE	Not To Scale	A4
		PROJECT No PS212776	FIGURE No	5/8




PointID : BH-011 Depth Range: 7.40 - 11.00 m

	TITLE MPDC Macquarie Point Macquarie Point GI Core Photo - BH-011	DRAWN	DATE
		CHECKED	DATE
		SCALE	A4
		PROJECT No	FIGURE No
		PS212776	6/8




PointID : BH-011 Depth Range: 11.00 - 15.00 m

	TITLE MPDC Macquarie Point Macquarie Point GI Core Photo - BH-011	DRAWN	DATE
		CHECKED	DATE
		SCALE	FIGURE No
		PROJECT No	FIGURE No
		18/6/2024	18/6/2024
		Not To Scale	7/8
		A4	
		PS212776	



PointID : BH-011 Depth Range: 15.00 - 18.40 m

	TITLE MPDC Macquarie Point Macquarie Point GI Core Photo - BH-011	DRAWN	DATE	18/6/2024
		CHECKED	DATE	18/6/2024
		SCALE	Not To Scale	A4
		PROJECT No PS212776	FIGURE No	8/8