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BOREHOLE: BHLR-10

Project: Pioneer-Burdekin PHES

Location: Netherdale/Dalrymple Heights

Client: Queensland Hydro

Job No.: PS138693

Position: Lower Reservoir

Coords: 658628.4 m E 7662939.8 m N MGA2020-55

Surface RL: 219.3 m AHD

Contractor: Twin Hills Engineering & Drilling Drill Rig: Hanjin D&B-8DTM

Inclination: -88° Direction: 000°

Sheet 1 of 4

Date Started: 3/5/2024

Date Completed: 11/5/2024

Logged: SB

Drilling				Sampling			Field Material Description				
METHOD	PENETRATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED GRAPHIC LOG	GROUP SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS	
AD/V	E-F		0	219.27			GP	Sandy GRAVEL: coarse, sub-angular to angular, brown, sand is medium grained; with high plasticity clay.		COLLUVIAL SOIL	
			0.50					Continued as Cored Borehole			
			1								
			2								
			3								
			4								
			5								
			6								
			7								
			8								
			9								
			10								

Comments

CheckedGEM

Date2/12/2024



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Inclination: -88° Direction: 000°

Sheet 2 OF 4

Date Started: 3/5/2024

Date Completed: 11/5/2024

Logged: SB

Drilling					Field Material Description				Defect Information			
METHOD	WATER	TCR	RQD	DEPTH (metres)	DEPTH RL	GRAPHIC LOG	ROCK / SOIL MATERIAL DESCRIPTION	WEATHERING	INFERRED STRENGTH (MPa)	DEFECT DESCRIPTION & Additional Observations (Core partings shown - refer to Detailed Defect Descriptions table for all logged features)		AVERAGE DEFECT SPACING (mm)
								VL-2 J L M H VH EH	■ UCS			0 100 200 300 1000 3000
HQ3	Groundwater Not Observed			0			Continuation from non-cored borehole					
				0.50								
				0.60								
		100	0	218.67			CH Sandy Gravelly CLAY: high plasticity, brown, gravel is fine to coarse grained, sub-angular to angular; sand is fine to coarse grained; (COLLUVIUM).			0.50-0.85: SPT, 13,14,30/50mm N=R		
				1			COBBLES: sub-rounded to sub-angular, grey and dark grey, felsic and mafic igneous, fresh, very high strength, with coarse grained gravel; (COLLUVIUM).					
				1.60								
		88	0	217.49			NO CORE 0.18m (1.60-1.78)					
				2			BOULDERS: sub-rounded to sub-angular, grey and dark grey, felsic and mafic igneous, fresh, very high strength, up to 250mm, with cobbles; trace medium to coarse grained, sub-angular gravel; (COLLUVIUM).					
				2.60								
				216.67			NO CORE 1.04m (2.60-3.64)					
		30	0									
				3								
				3.64								
				215.63			Gravelly COBBLES: sub-rounded to sub-angular, grey and dark grey, felsic and mafic igneous, fresh, very high strength, gravel is coarse grained; (COLLUVIUM).					
				4								
				4.10								
				215.17			NO CORE 0.35m (4.10-4.45)					
				4.45								
				214.82			BOULDERS: sub-rounded, grey and dark grey, felsic and mafic igneous, fresh, very high strength, up to 450mm, with sub-rounded to sub-angular, altered felsic and mafic igneous cobbles; with sand, clay and gravel presenting as 50-150mm thick lenses of clayey sandy GRAVEL; clay is medium plasticity, sand is fine to coarse grained, gravel is fine to coarse grained, sub-rounded, lenses spaced approximately 800mm apart (COLLUVIUM).					
				5								
				6								
		100	0									
				7								
				8								
				8.60								
				210.68			NO CORE 0.70m (8.60-9.30)					
				9								
				9.30								
				209.98			GW GRAVEL: fine to coarse, sub-rounded to sub-angular, dark grey, with sub-angular, mafic composition cobbles; (COLLUVIUM).					
		53	0	209.74			BOULDERS: sub-rounded, grey and dark grey, mafic, up to 350mm, (COLLUVIUM).					
				10								

Comments

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Date 2/12/2024



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Inclination: -88° Direction: 000°

Sheet 3 OF 4

Date Started: 3/5/2024

Date Completed: 11/5/2024

Logged: SB

Drilling						Field Material Description				Defect Information			
METHOD	WATER	TCR	RQD	DEPTH (metres)	DEPTH RL	GRAPHIC LOG	ROCK / SOIL MATERIAL DESCRIPTION	WEATHERING	INFERRED STRENGTH (MPa)	DEFECT DESCRIPTION & Additional Observations (Core partings shown - refer to Detailed Defect Descriptions table for all logged features)		AVERAGE DEFECT SPACING (mm)	
								VL-2 J M H VH EH	■ - UCS			0 20 50 100 300 1000 3000	
Groundwater Not Observed				10	209.18		NO CORE 0.90m (10.10-11.00)						
				11	208.28		GC GRAVEL: fine to coarse, sub-rounded to sub-angular, brown and grey, with low plasticity, brown clay; with sub-rounded to sub-angular cobbles; (COLLUVIUM).						
				12	207.68		NO CORE 1.60m (11.60-13.20)						
				13	206.08		SC Clayey SAND: fine to medium grained, pale brown, clay is low plasticity; (COLLUVIUM).						
				14	205.06		BOULDERS: sub-rounded, grey and white, slightly weathered, very high strength, up to 300mm; (COLLUVIUM).						
				15	204.68		NO CORE 0.34m (14.60-14.94)						
				15	204.34		ALTERED GRANITE: fine to coarse grained, dark grey and grey, crystalline, massive, moderately to highly altered, pale orange alteration halos around healed defects.	SW		15.32: J, 20°, or-pk mi SN, UN, 20mm alt halo			
				16				FR		15.97: J, 10°, PR, RF			
				17						16.43: J, 10°, CU, RF 16.67: J, 70°, CU, RF, wh mi 16.81: J, 5°, IR, VR 17.02: J, 30°, IR, VR, wh mi, clay 17.15: J, 5°, IR, VR, bk mi			
				18						18.17: J, 10°, PR, SM 18.19: J, 30°, UN, RF			
				19						18.70: J, 5°, IR, RF, wh mi			
				20						19.28: J, 40°, PR, SM 19.39: J, 5°, IR, VR 19.73: J, 5°, IR, VR 19.76: J, 70°, UN, RF			

Comments

Checked GEM
Date 2/12/2024

PEPHES LIB - REV0 GLB Log IS AU CORED BOREHOLE 3 BHLR-10_241201.GPJ <<DrawingFile>> 1/12/2024 22:44 10.03.00.09 Dalgel Lab and In Situ Tool - DGD | Lib: WSP 5.07.2 2023-10-30 Proj: WSP 5.04.1 2023-06-14



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Contractor: Twin Hills Engineering & Drilling

Inclination: -88° Direction: 000°

Sheet 4 OF 4

Date Started: 3/5/2024

Date Completed: 11/5/2024

Logged: SB

Drilling					Field Material Description				Defect Information				
METHOD	WATER	TCR	RQD	DEPTH (metres)	DEPTH RL	GRAPHIC LOG	ROCK / SOIL MATERIAL DESCRIPTION	WEATHERING	INFERRED STRENGTH (MPa)	DEFECT DESCRIPTION & Additional Observations (Core partings shown - refer to Detailed Defect Descriptions table for all logged features)		AVERAGE DEFECT SPACING (mm)	
									VL-2 L -6 M -20 H -60 VH -200 EH			10 30 100 300 1000 3000	
HQ3	Groundwater Not Observed		100	87	20		ALTERED GRANITE: fine to coarse grained, dark grey and grey, crystalline, massive, moderately to highly altered, pale orange alteration halos around healed defects.	FR		19.90: J, 10°, ST, RF			
				20.25: J, 5°, ST, RF									
				20.32: J, 10°, IR, RF									
				20.80-20.90: J, 5°, IR, RF									
				21.18: J, 5°, PR, RF									
				21.70-21.77: J, 5°, IR, RF, very closely spaced, wh mi									
				22.48-22.54: J, 5°, PR, SM, closely spaced									
				22.57: J, 50°, PR, RF									
				22.62: J, 5°, PR, RF									
				22.87-22.92: J, 10°, IR, RF, very closely spaced									
			100	93	23		ALTERED GRANITE: fine to coarse grained, dark grey and grey, crystalline, massive, moderately to highly altered, pale orange alteration halos around healed defects.			24.36: J, 10°, PR, RF			
				24.40: J, 10°, CU, RF									
				24.60: J, 5°, IR, VR									
				24.69: J, 0°, CU, RF									
				25.32: J, 10°, PR, RF, pk mi 10mm									
				25.79: J, 0°, UN, RF									
				26.10: J, 5°, PR, RF									
				26.16: J, 85°, CU, RF, gy mi									
				27.31: J, 0°, PR, RF									
				27.90: J, 30°, PR, SM									
			100	100	24								
			100	100	25								
			100	100	26								
			100	100	27								
			100	100	28								
			100	100	29								
			100	100	30								

Comments

Checked GEM
Date 2/12/2024



Pioneer Burdekin Pumped Hydro Energy Storage: Tranche 2 – BHLR - 10 Defects List

PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHLR-10	0.50	0.85			J	SPT											SPT, 13,14,30/50mm N=R
BHLR-10	15.05				hJ		10		qz		UN		>=	15			
BHLR-10	15.15	15.35			hJ		80		or-pk mi		UN		<	1			
BHLR-10	15.32				J		20		or-pk mi	SN	UN						20mm alt halo
BHLR-10	15.34				hJ		5		wh mi		UN						
BHLR-10	15.36	15.55			hJ		80	90	or-pk mi	SN	UN						
BHLR-10	15.60	15.65			hJ		60		or-pk mi		PR						
BHLR-10	15.65				CO		45				PR	SM					
BHLR-10	15.73				DB		5				IR	VR					
BHLR-10	15.97				J		10				PR	RF					
BHLR-10	16.33	16.50			hJ		80				CU						wh mi 12mm
BHLR-10	16.40				hJ		60				PR						wh mi
BHLR-10	16.43				J		10				CU	RF					
BHLR-10	16.45	16.65			hJ	x2	80				CU						pk mi, 3mm alt halo
BHLR-10	16.60				hJ		90				CU						gn mi 10mm
BHLR-10	16.67				J		70				CU	RF					wh mi
BHLR-10	16.74				hJ		40				PR						wh mi
BHLR-10	16.81				J		5				IR	VR					
BHLR-10	16.88				hJ		60				CU						pk mi
BHLR-10	17.02				J		30				IR	VR					wh mi, clay
BHLR-10	17.12				hJ		70				CU						wh mi
BHLR-10	17.13				hJ		90				CU						
BHLR-10	17.15				J		5				IR	VR					bk mi
BHLR-10	17.25				hJ		80				UN						pk mi, 4mm alt halo
BHLR-10	17.63				hJ		65				CU						pk mi
BHLR-10	17.73				hJ		60				ST						pk mi
BHLR-10	17.75				V		20				PR						pk mi, 12mm alt halo
BHLR-10	17.86				hJ		60				PR						pk mi
BHLR-10	18.05				hJ		70				PR						pk mi, 3mm alt halo
BHLR-10	18.13				hJ		70				PR						pk mi, 2mm alt halo
BHLR-10	18.17				J		10				PR	SM					
BHLR-10	18.19				J		30				UN	RF					
BHLR-10	18.21				hJ		70				PR						pk mi, alteration x2
BHLR-10	18.33				hJ		60				PR						pk mi
BHLR-10	18.40				hJ		75				PR						pk mi
BHLR-10	18.45				hJ		80				PR						wh mi
BHLR-10	18.70				J		5				IR	RF					wh mi
BHLR-10	18.80	18.97			hJ		10				PR						wh mi
BHLR-10	18.84				hJ		15				PR						wh mi
BHLR-10	19.12				hJ		45				PR						wh mi
BHLR-10	19.20				hJ		30				PR						wh mi 3mm
BHLR-10	19.25				hJ		50				PR						gy mi 3mm
BHLR-10	19.28				J		40				PR	SM					
BHLR-10	19.30				hJ		45				PR						wh mi
BHLR-10	19.33				hJ		40				PR						wh mi
BHLR-10	19.34				hJ		40				PR						wh mi
BHLR-10	19.39				J		5				IR	VR					
BHLR-10	19.42				hJ		50				PR						wh mi
BHLR-10	19.46				V		70				PR						wh mi 2mm
BHLR-10	19.50				hJ		60				PR						wh mi
BHLR-10	19.53				hJ		45				PR						wh mi 8mm
BHLR-10	19.56				hJ		50				PR						wh mi 3mm
BHLR-10	19.62				hJ		70				CU						bk gy mi
BHLR-10	19.67				hJ		40				PR						wh mi
BHLR-10	19.73				J		5				IR	VR					
BHLR-10	19.75				hJ		70				UN						gy bk mi 4mm
BHLR-10	19.76				J		70				UN	RF					
BHLR-10	19.86				hJ		40				PR						wh mi 2mm
BHLR-10	19.87				hJ		40				PR						gy mi 2mm
BHLR-10	19.89				hJ		50				PR						wh mi
BHLR-10	19.90				J		10				ST	RF					
BHLR-10	19.95				hJ		60				PR						pk mi 3mm
BHLR-10	20.00	20.07			hJ		50				PR						pk mi
BHLR-10	20.01	20.20			hJ	x3	60				PR						wh mi, pink alteration 3mm
BHLR-10	20.18				hJ		30				PR						wh mi
BHLR-10	20.20				hJ		60				PR						wh mi
BHLR-10	20.24				hJ		50				PR						wh mi
BHLR-10	20.25				J		5				ST	RF					
BHLR-10	20.30				hJ		50				PR						pk mi, 8mm alt halo
BHLR-10	20.32				J		10				IR	RF					
BHLR-10	20.37	20.47			hJ		50				PR						pk mi
BHLR-10	20.42				hJ		40				PR						wh mi
BHLR-10	20.45				hJ		25				PR						wh mi
BHLR-10	20.46				hJ		20				PR						pk mi, 30mm alt halo
BHLR-10	20.50				hJ	x3	30				PR						wh mi
BHLR-10	20.58				hJ		60				CU						gn pk mi, 4mm
BHLR-10	20.60	20.72			hJ		70				PR						pk mi 2mm
BHLR-10	20.66				hJ		60				CU						bk mi 2mm
BHLR-10	20.70				hJ		40				PR						wh mi



Pioneer Burdekin Pumped Hydro Energy Storage: Tranche 2 – BHLR - 10 Defects List

PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHLR-10	20.80	20.90			J		5				IR	RF					
BHLR-10	21.00	21.23			hJ		80				PR						pk mi 2mm
BHLR-10	21.18				J		5				PR	RF					
BHLR-10	21.20				hJ		20				PR						wh mi
BHLR-10	21.25				hJ		70				PR						pk mi
BHLR-10	21.33				hJ		75				PR						pk mi 3mm
BHLR-10	21.60				hJ		70				CU						pk mi 3mm
BHLR-10	21.70	21.77			J		5				IR	RF				very closely	wh mi
BHLR-10	21.90				hJ		5				PR						wh mi
BHLR-10	21.92				hJ		30				PR						wh mi 3mm
BHLR-10	21.95				hJ		90				PR						wh mi
BHLR-10	22.00				CO		30				PR	SM					
BHLR-10	22.05				hJ		85				PR						pk mi 3mm
BHLR-10	22.25				hJ		85				PR						pk mi 3mm
BHLR-10	22.45				hJ		90				PR						gy mi 8mm
BHLR-10	22.48	22.54			J		5				PR	SM				closely	
BHLR-10	22.54				hJ	x2	45				PR						wh mi 3mm
BHLR-10	22.57				J		50				PR	RF					
BHLR-10	22.62				J		5				PR	RF					
BHLR-10	22.63				CO		30				CU	SM					
BHLR-10	22.73				hJ		30				PR						wh mi
BHLR-10	22.75				hJ		60				PR						wh mi
BHLR-10	22.85				hJ		20				PR						wh mi 3mm
BHLR-10	22.87	22.92			J		10				IR	RF				very closely	
BHLR-10	23.00				hJ		70				PR						gy mi 4mm
BHLR-10	23.20				hJ		65				PR						pk mi
BHLR-10	23.60				hJ		10				PR						wh mi 4mm
BHLR-10	23.68				hJ		45				PR						wh mi
BHLR-10	23.73				CO		60				PR	SM					
BHLR-10	23.78				hJ		80				PR						bk mi 3mm
BHLR-10	23.83				hJ		80				PR						wh mi
BHLR-10	23.90				hJ		35				UN						wh mi 25mm
BHLR-10	23.92				hJ		90				PR						wh mi
BHLR-10	23.94				hJ		70				PR						wh mi
BHLR-10	24.00				hJ		20				PR						wh mi
BHLR-10	24.20				hJ		70				PR						wh mi 3mm
BHLR-10	24.21				hJ		70				PR						wh mi 3mm
BHLR-10	24.32				V		20				CU						pk mi 3mm
BHLR-10	24.36				J		10				PR						
BHLR-10	24.40				J		10				CU	RF					
BHLR-10	24.41				hJ		45				PR						wh mi 10mm
BHLR-10	24.42				hJ		90				PR						wh mi 3mm
BHLR-10	24.47				hJ		10				PR						pk mi 8mm
BHLR-10	24.52				hJ		10				PR						pk mi 5mm
BHLR-10	24.60				J		5				IR	VR					
BHLR-10	24.66				hJ		15				PR						pk mi
BHLR-10	24.69				J		0				CU	RF					
BHLR-10	24.74				hJ		10				PR						wh mi
BHLR-10	24.80				hJ		90				UN						bk mi
BHLR-10	24.81				hJ		20				PR						wh mi 2mm
BHLR-10	24.84				hJ		80				PR						wh mi
BHLR-10	24.90				hJ		70				PR						wh mi
BHLR-10	24.93				hJ		20				PR						wh mi
BHLR-10	25.00				hJ		20				CU						wh mi 3mm
BHLR-10	25.03				DB												
BHLR-10	25.04				hJ		80				PR						wh mi 5mm
BHLR-10	25.17				V		30				UN						wh mi 8mm
BHLR-10	25.23				V		20				CU						pk mi 15mm
BHLR-10	25.32				J		10				PR	RF					pk mi 10mm
BHLR-10	25.33				hJ		20				PR						wh mi 4mm
BHLR-10	25.36				hJ		20				PR						wh mi 3mm
BHLR-10	25.53				V		20				PR						pk mi 10mm
BHLR-10	25.60				V		30				UN						pk mi 8mm
BHLR-10	25.63				hJ		90				UN						wh mi
BHLR-10	25.72				hJ		5				PR						wh mi
BHLR-10	25.73				hJ		30				PR						gy mi 10mm
BHLR-10	25.79				J		0				UN	RF					
BHLR-10	25.88				hJ		40				PR						pk mi 3mm
BHLR-10	25.92				hJ		60				PR						wh mi 2mm
BHLR-10	25.97				hJ		5				PR	RF					
BHLR-10	26.00				hJ		85				PR						bk pk mi
BHLR-10	26.08				V		30				UN						wh mi 25mm
BHLR-10	26.10				J		5				PR	RF					
BHLR-10	26.16				J		85				CU	RF					gy mi
BHLR-10	26.27				hJ	x2	45				PR						wh mi
BHLR-10	26.94				hJ		5				PR						wh mi
BHLR-10	27.31				J		0				PR	RF					
BHLR-10	27.45				hJ	x5	70				PR						wh mi
BHLR-10	27.72				hJ		70				PR						wh mi



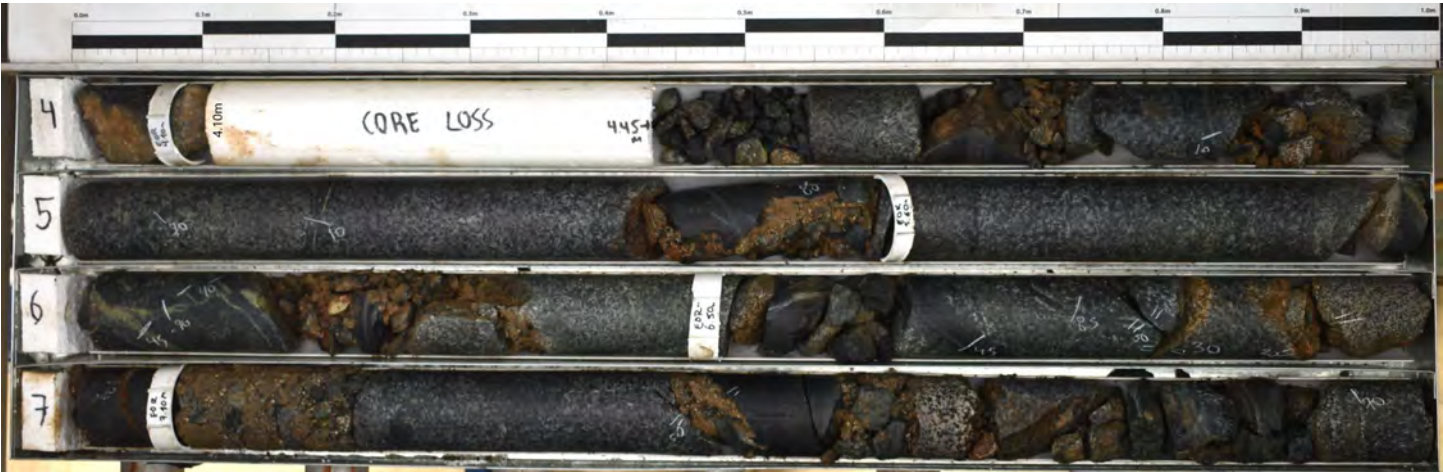
Pioneer Burdekin Pumped Hydro Energy Storage: Tranche 2 – BHLR - 10 Defects List

PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHLR-10	27.83				hJ		70				PR						wh mi
BHLR-10	27.90				J		30				PR	SM					

Preliminary



PointID : BHLR-10 Depth Range: 0.00 - 4.00 m



PointID : BHLR-10 Depth Range: 4.00 - 8.00 m

	TITLE Queensland Hydro Netherdale/Dalrymple Heights Pioneer-Burdekin PHES Coro photo - BHLR-10	DRAWN RC	DATE 11/11/2024
		CHECKED GEM	DATE 18/11/2024
		SCALE Not To Scale	A4
		PROJECT No PS138693	FIGURE No 1/4



PointID : BHLR-10 Depth Range: 8.00 - 12.00 m

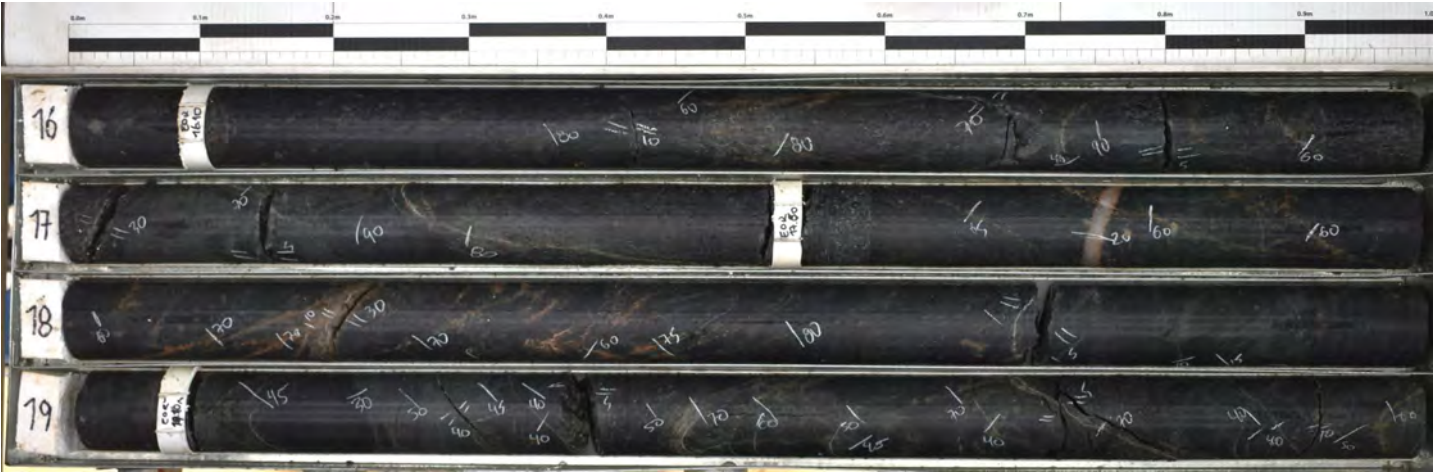


PointID : BHLR-10 Depth Range: 12.00 - 16.00 m



TITLE
Queensland Hydro
Netherdale/Dalrymple Heights
Pioneer-Burdekin PHES
Coro photo - BHLR-10

DRAWN	RC	DATE	11/11/2024
CHECKED	GEM	DATE	18/11/2024
SCALE	Not To Scale		A4
PROJECT No	PS138693		FIGURE No 2/4

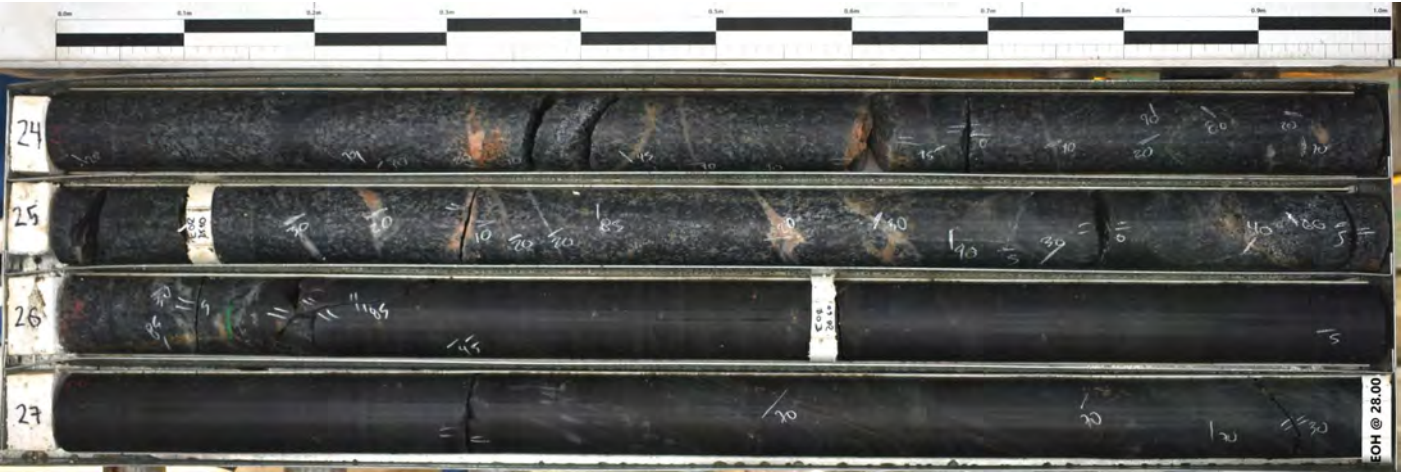


PointID : BHLR-10 Depth Range: 16.00 - 20.00 m



PointID : BHLR-10 Depth Range: 20.00 - 24.00 m

	TITLE Queensland Hydro Netherdale/Dalrymple Heights Pioneer-Burdekin PHES Coro photo - BHLR-10	DRAWN	RC	DATE	11/11/2024
		CHECKED	GEM	DATE	18/11/2024
		SCALE	Not To Scale		A4
		PROJECT No	PS138693		FIGURE No 3/4



PointID : BHLR-10 Depth Range: 24.00 - 28.00 m

	TITLE Queensland Hydro Netherdale/Dalrymple Heights Pioneer-Burdekin PHES Coro photo - BHLR-10	DRAWN RC	DATE 11/11/2024
		CHECKED GEM	DATE 18/11/2024
		SCALE Not To Scale	A4
		PROJECT No PS138693	FIGURE No 4/4