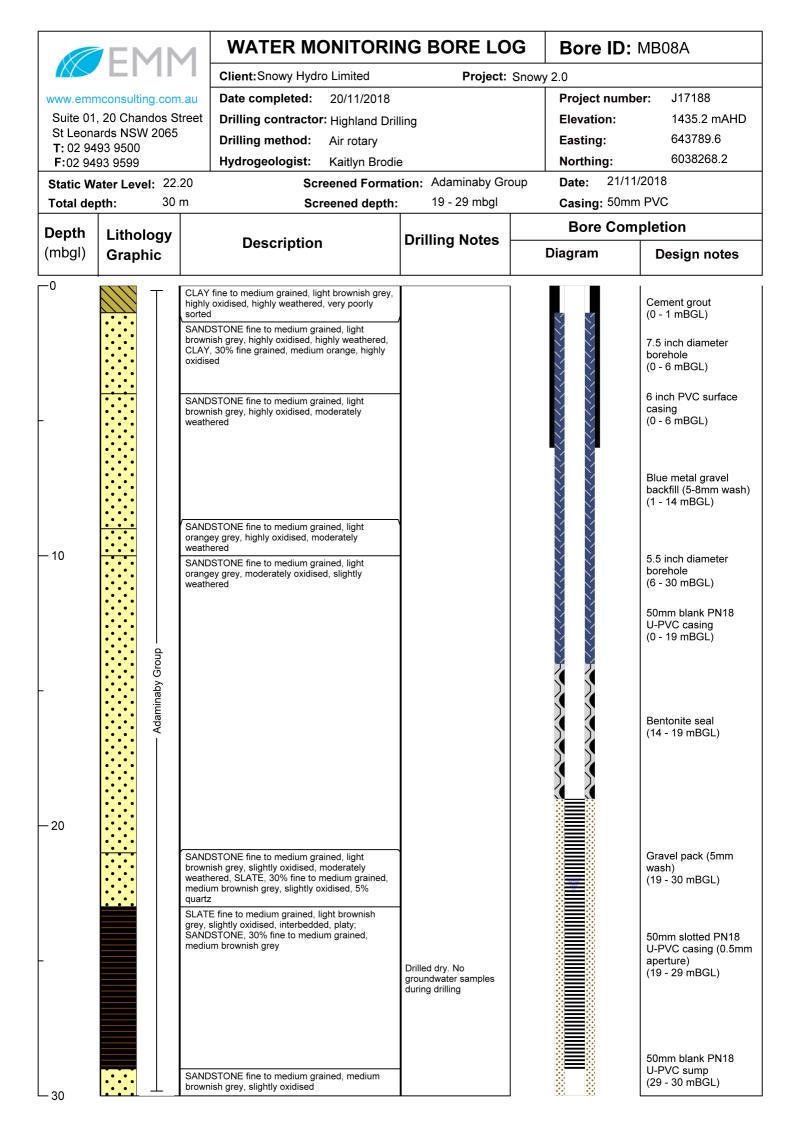
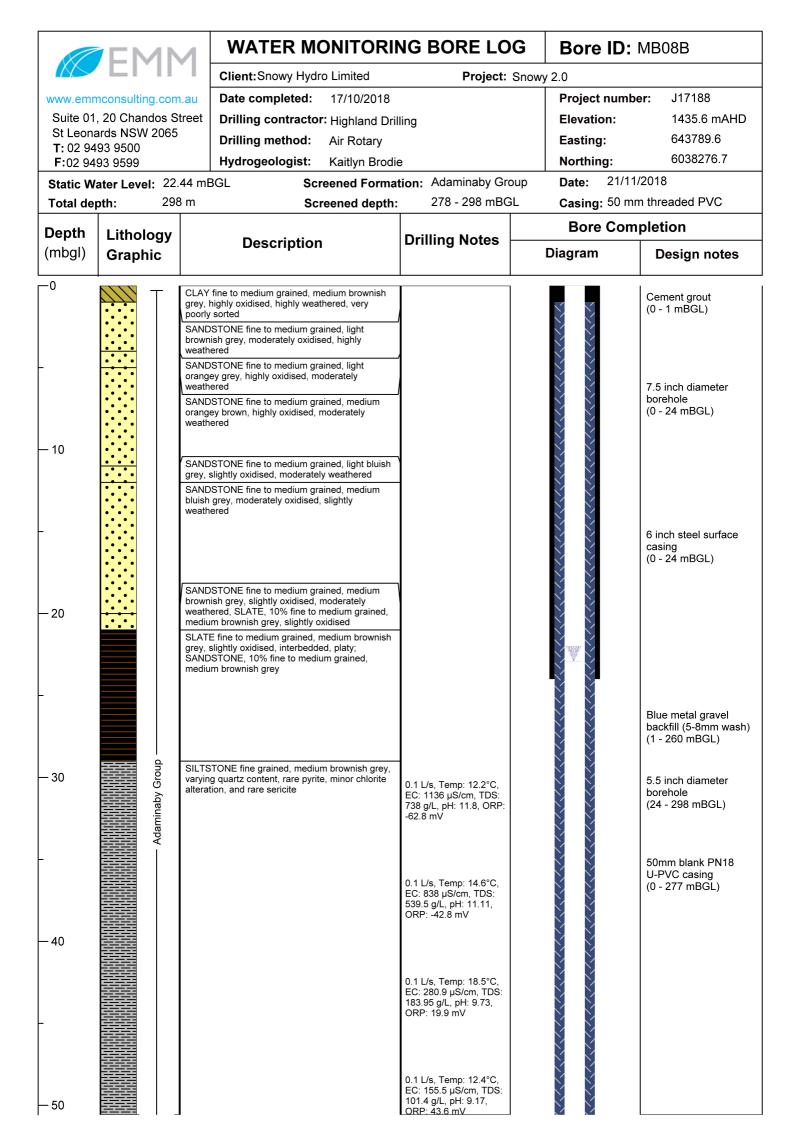
Appendix C

Geological and bore construction logs



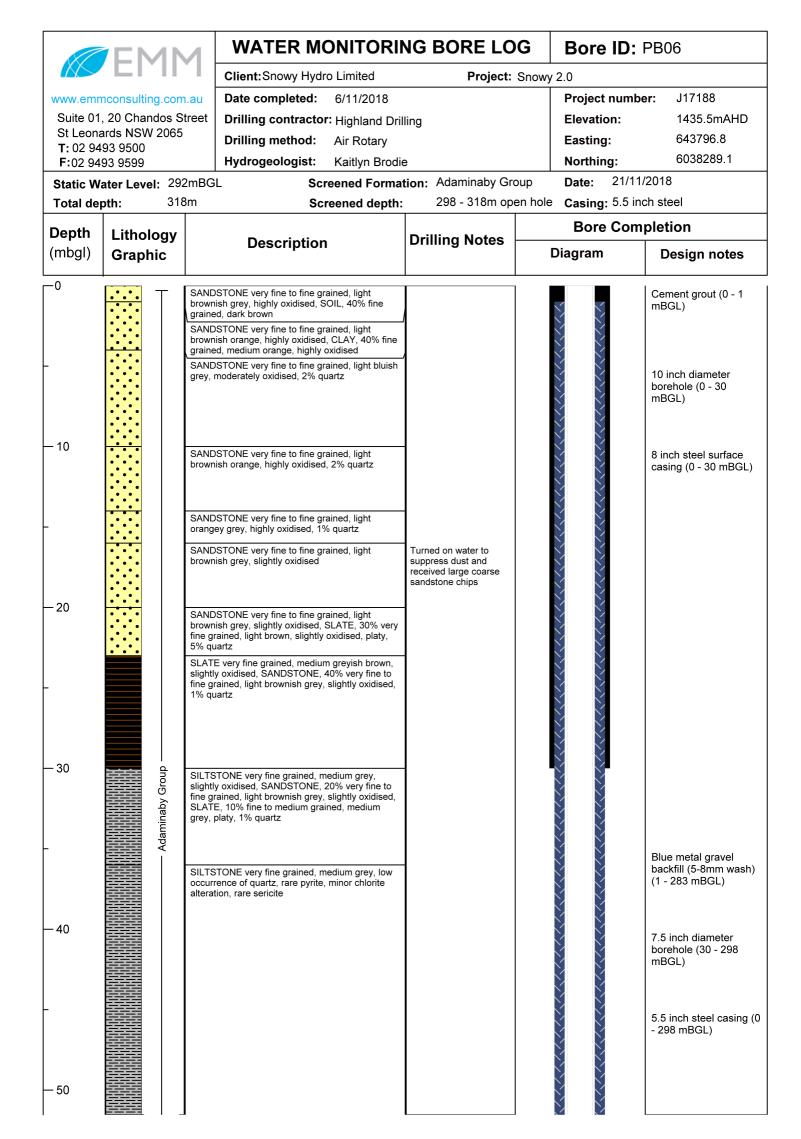


- 60			0.1 L/s, Temp: 12.7°C, EC: 114.3 µS/cm, TDS: 74.1 g/L, pH: 9, ORP: 53.6 mV 0.1 L/s, Temp: 12.9°C, EC: 216.9 µS/cm, TDS: 141.05 g/L, pH: 9.18, ORP: 46.5 mV
- - 70			0.1 L/s, Temp: 12.5°C, EC: 151 µS/cm, TDS: 98.15 g/L, pH: 9.17, ORP: 29.3 mV
_			0.1 L/s, Temp: 12.9°C, EC: 151 µS/cm, TDS: 98.15 g/L, pH: 9.14, ORP: 42 mV
— 80		SLATE fine grained, dark grey, platy SILTSTONE fine grained, medium grey, chlorite, altered; 1% quartz, rare pyrite	0.1 L/s, Temp: 13.2°C, EC: 196.6 μS/cm, TDS: 128.05 g/L, pH: 9.17, ORP: 46.9 mV
_			0.1 L/s, Temp: 13.5°C, EC: 157.9 µS/cm, TDS: 102.7 g/L, pH: 9.18, ORP: 41.1 mV
90		SLATE fine grained, dark grey, platy, SILTSTONE 40% fine to medium grained, medium grey, chlorite altered	0.1 L/s, Temp: 13.9°C, EC: 161.6 μS/cm, TDS: 105.3 g/L, pH: 9.21, ORP: 36.5 mV
— 100		SILTSTONE fine grained, medium grey, chlorite, altered; 1% quartz, rare pyrite	0.2 L/s, Temp: 14.1°C, EC: 95.4 µS/cm, TDS: 62.75 g/L, pH: 9.09, ORP: 43.5 mV
-	Adaminaby Group ——	SILTSTONE fine grained, medium grey, chlorite altered; SLATE, 10% fine grained, medium grey, platy, 1% quartz, rare pyrite	0.2 L/s, Temp: 13.7°C, EC: 99.5 µS/cm, TDS: 64.95 g/L, pH: 9.22, ORP: 52.4 mV
— 110	Ada		0.2 L/s, Temp: 13.5°C, EC: 108.7 μS/cm, TDS: 70.85 g/L, pH: 9.11, ORP: 58.6 mV
-		SILTSTONE fine grained, light grey, chlorite altered; 1% quartz, 10% calcite SILTSTONE fine grained, medium grey, SLATE, 20% fine grained, medium grev. 1% quartz. 10%	0.2 L/s, Temp: 13.4°C, EC: 159.1 µS/cm, TDS: 103.35 g/L, pH: 9.2, ORP: 59.6 mV

	20% fine grained, medium grey, 1% quartz, 10% calcite		
- 120	SLATE fine grained, dark grey, chlorite altered;	0.2 L/s, Temp: 14.6°C, EC: 171.5 µS/cm, TDS: 111.8 g/L, pH: 8.93, ORP: 58.9 mV	
_	SILTSTONE, 10% fine grained, medium grey		
	SILTSTONE fine grained, medium grey, chlorite altered; SLATE, 10% fine grained, medium grey, rare pyrite	0.3 L/s, Temp: 16.5°C, EC: 81.4 µS/cm, TDS: 52.65 g/L, pH: 9.21, ORP: 44.8 mV	
<u> </u>	SILTSTONE fine grained, medium grey, varying quartz content, rare pyrite, minor chlorite alteration, rare sericite, rare calcite		
_		0.3 L/s, Temp: 18.1°C, EC: 156.2 µS/cm, TDS: 101.4 g/L, pH: 9.21, ORP: 46.7 mV	
— 140		0.8 L/s, Temp: 14.8°C, EC: 155.3 µS/cm, TDS: 100.75 g/L, pH: 8.83, ORP: 68.5 mV	
_	SLATE fine grained, dark grey, chlorite altered; SILTSTONE, 40% fine grained, medium grey, 1% quartz SILTSTONE fine grained, medium grey, 1% quartz SLATE fine grained, medium grey, 2% quartz SILTSTONE fine grained, medium grey, chlorite	0.8 L/s, Temp: 12.8°C, EC: 217 µS/cm, TDS: 141.05 g/L, pH: 8.83, ORP: 72.9 mV	
150	altered; SLATE, 10% fine grained, medium grey, 2% quartz, 1% calcite, rare pyrite		
— 150	SLATE fine grained, medium grey, SILTSTONE, 10% fine grained, medium grey, 1% quartz, rare pyrite	0.8 L/s, Temp: 14.3°C, EC: 153.3 µS/cm, TDS: 99.45 g/L, pH: 8.78, ORP: 68.9 mV	
-		0.8 L/s, Temp: 12.7°C, EC: 109.4 µS/cm, TDS: 70.85 g/L, pH: 8.73,	
— 160	SILTSTONE fine grained, medium grey, varying quartz content, rare pyrite, minor chlorite alteration, rare sericite	ORP: 74.2 mV	
		1.5 L/s, Temp: 7.6°C, EC: 154.1 µS/cm, TDS: 100.1 g/L, pH: 8.57, ORP: 113.5 mV	
_	SLATE fine grained, medium grey, SILTSTONE, 40% fine grained, medium grey, 1% quartz, rare pyrite, rare calcite		
– 170	SILTSTONE fine grained, medium grey, chlorite altered; SLATE, 10% fine grained, medium grey, 1% quartz, rare pyrite	1.5 L/s, Temp: 10.1°C, EC: 151.8 µS/cm, TDS: 98.8 g/L, pH: 8.56, ORP: 104.9 mV	
	SLATE fine grained, medium grey, SILTSTONE, 10% fine grained, medium grey, 1% quartz, rare pyrite		
-	SILTSTONE fine grained, medium grey, chlorite altered SLATE fine grained, medium grey, SILTSTONE,	1.5 L/s, Temp: 12.1°C, EC: 145.5 µS/cm, TDS: 94.25 g/L, pH: 8.6, ORP: 92 mV	
	10% fine grained, medium grey SILTSTONE fine grained, medium grey, chlorite		
— 180	altered; 2% quartz, rare pyrite	1.5 L/s, Temp: 10°C, EC: 147.4 µS/cm, TDS: 95.55 g/L, pH: 8.59, ORP: 88.9 mV	

L		SIL1S1ONE tine grained, medium grey, rare pyrite	
— 190	Adaminaby Group ——		1.5 L/s, Temp: 12.5°C, EC: 78.1 µS/cm, TDS: 50.7 g/L, pH: 8.68, ORP: 76.5 mV
	Adami	SLATE fine grained, medium grey	
_		SILTSTONE fine grained, medium grey, 2% quartz, rare pyrite, minor chlorite alteration	1.5 L/s, Temp: 12.9°C, EC: 98.4 µS/cm, TDS: 63.7 g/L, pH: 8.57, ORP: 84.4 mV
– 200			1.5 L/s, Temp: 14°C, EC: 146.9 µS/cm, TDS: 94.9 g/L, pH: 8.56, ORP: 84.5 mV
_			1.5 L/s, Temp: 14.8°C, EC: 127.9 µS/cm, TDS: 83.2 g/L, pH: 8.59, ORP: 80.2 mV
— 210			
_		SILTSTONE fine grained, medium grey, 40% quartz	1.5 L/s, Temp: 14.3°C,
— 220		SILTSTONE fine grained, medium grey, 2% quartz, rare pyrite	EC: 138.5 µS/cm, TDS: 89.7 g/L, pH: 8.55, ORP: 81.2 mV
_ 230		SILTSTONE fine grained, medium grey, chlorite altered; 2% quartz, rare pyrite, rare sericite	1.5 L/s, Temp: 13.8°C, EC: 164 μS/cm, TDS: 106.6 g/L, pH: 8.4, ORP: 71.6 mV
-			1.5 L/s, Temp: 17.6°C, EC: 142.5 µS/cm, TDS: 92.96 g/L, pH: 8.54, ORP: 88.2 mV
— 240		SILTSTONE fine grained, medium grey, 2%	1.5 L/s, Temp: 18.2°C, EC: 158.8 µS/cm, TDS: 103.35 g/L, pH: 8.36, ORP: 82.8 mV
_ 250		quartz, rare pyrite	1.5 L/s, Temp: 18.2°C, EC: 163.8 µS/cm, TDS: 106.6 g/L, pH: 8.31, ORP: 80.4 mV

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-			1.5 L/s, Temp: 17.6°C, EC: 141.2 µS/cm, TDS: 91.65 g/L, pH: 8.38, ORP: 72.7 mV	
— 260			1.5 L/s, Temp: 16.9°C, EC: 115.6 µS/cm, TDS: 76.4 g/L, pH: 8.49, ORP: 66.3 mV	
_	- Adaminaby Group		1.5 L/s, Temp: 17.9°C, EC: 139.9 µS/cm, TDS: 91 g/L, pH: 8.39, ORP: 69.7 mV	
— 270			1.5 L/s, Temp: 19.3°C, EC: 147.6 µS/cm, TDS: 96.2 g/L, pH: 8.44, ORP: 66.9 mV	Bentonite seal (260 - 275 mBGL)
_		SILTSTONE fine grained, medium grey, 5% quartz, rare pyrite, minor chlorite alteration, rare sericite	1.5 L/s, Temp: 19.3°C, EC: 136.3 µS/cm, TDS: 88.4 g/L, pH: 8.48, ORP: 64.3 mV	
— 280 -			1.5 L/s, Temp: 11.9°C, EC: 156.3 µS/cm, TDS: 101.4 g/L, pH: 8.33, ORP: 84.3 mV	Gravel pack (5mm wash) (275 - 298 mBGL) 50mm slotted PN18
– 290			1.5 L/s, Temp: 13.4°C, EC: 165.1 µS/cm, TDS: 107.25 g/L, pH: 8.26, ORP: 80.6 mV	U-PVC casing (0.5mm aperture) (277 - 297 mBGL)
-			1.5 L/s, Temp: 16.7°C, EC: 162.1 µS/cm, TDS: 105.3 g/L, pH: 8.4, ORP: 75.7 mV	50mm blank PN18 U-PVC sump (297 - 298 mBGL)



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- 60			0.07 L/s, Temp: 23°C,	
_			EC: 151 µS/cm, TDS: 98 g/L, pH: 8.93, ORP: 44 mV	
70		SLATE very fine grained, dark grey, platy SILTSTONE very fine grained, medium grey,	0.07 L/s, Temp: 21°C, EC: 111 µS/cm, TDS: 72 g/L, pH: 8.91, ORP: 41 mV	
- 70		SLATE, 10% very fine grained, dark grey, 5% quartz	0.1 L/s, Temp: 22°C, EC: 152 μS/cm, TDS: 99 g/L, pH: 8.80, ORP: 17 mV	
— 80		SLATE very fine grained, dark grey, platy, SILTSTONE, 10% very fine grained, medium grey, 1% quartz, rare pyrite SILTSTONE very fine grained, medium grey, 5%	0.1 L/s, Temp: 16°C, EC: 150 μS/cm, TDS: 98 α/L, pH: 8.66. ORP:	
- 80		quartz, rare pyrite	98 g/L, pH: 8.66, ORP: 67 mV	
			EC: 477 µS/cm, TDS: 313 g/L	
 90		SLATE very fine grained, dark grey, platy, SILTSTONE, 10% very fine grained, medium grey,		
_		1% quartz, rare pyrite SILTSTONE very fine grained, medium grey, SLATE, 10% very fine grained, dark grey, platy	0.02 L/s, Temp: 18°C, EC: 157 μS/cm, TDS: 102 g/L, ORP: 24 mV	
- 100		SLATE very fine grained, dark grey, platy, rare	0.02 L/s, Temp: 16°C, EC: 109 μS/cm, TDS:	
_	dno	pyrite	71 g/L, ORP: 29 mV	
— 110	Adaminaby Group	SILTSTONE very fine grained, medium grey, varying occurrence of quartz, minor chlorite alteration, rare sericite, rare calcite	0.02 L/s, Temp: 19°C, EC: 100 μS/cm, TDS: 65 g/L, ORP: 51 mV	
-			0.02 L/s, Temp: 19°C, EC: 133 µS/cm, TDS: 86 g/L, ORP: 102 mV	
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<u> </u>			0.02 L/s, Temp: 22°C, EC: 86 µS/cm, TDS: 56 g/L, ORP: 125 mV	
-		SLATE very fine grained, dark grey, platy, SILTSTONE, 10% very fine grained, medium grey, 1% quartz, rare pyrite SILTSTONE very fine grained, medium grey,	0.05 L/s, Temp: 22°C, EC: 184 μS/cm, TDS:	
— 130		chlorite, altered; SLATE, 10% very fine grained, dark grey, 1% quartz	120 g/L, ORP: 125 mV	
-			0.05 L/s, Temp: 21°C, EC: 202 μS/cm, TDS: 131 g/L, ORP: 131 mV	
— 140		SILTSTONE very fine grained, light grey, chlorite, altered; 10% quartz	0.05 L/s, Temp: 20°C, EC: 130 μS/cm, TDS: 85 g/L, ORP: 131 mV	
-		SILTSTONE very fine grained, medium grey, SLATE, 10% very fine grained, dark grey, 10% quartz, rare pyrite	0.05 L/s, Temp: 20°C, EC: 126 μS/cm, TDS: 82 g/L, ORP: 132 mV	
— 150		SILTSTONE very fine grained, light grey, chlorite, altered; 50% quartz, rare pyrite		
- - 160 -		SLATE very fine grained, dark grey, SILTSTONE, 10% very fine grained, medium grey, 1% quartz, rare pyrite SILTSTONE very fine grained, medium grey, varying occurrence of quartz, minor chlorite alteration, rare sericite, rare pyrite	0.5 L/s, Temp: 21°C, EC: 64 µS/cm, TDS: 41 g/L, ORP: 128 mV, fracture at 154m	
— 170		SLATE very fine grained, medium grey, SILTSTONE, 20% very fine grained, medium grey,	0.5 L/s, Temp: 22°C, EC: 160 μS/cm, TDS: 104 g/L, ORP: 132 mV	
-		1% quartz SILTSTONE very fine grained, medium grey, SLATE, 20% very fine grained, medium grey, 10% quartz, varying occurrence of quartz, rare pyrite	0.5 L/s, Temp: 22°C, EC: 137 μS/cm, TDS: 89 g/L, ORP: 129 mV	
— 180			0.5 L/s, Temp: 19°C, EC: 202 µS/cm, TDS: 131 g/L, ORP: 142 mV	
-			0.5 L/s, Temp: 16°C, EC: 71 µS/cm, TDS: 47 g/L, ORP: 14 mV	

— 190	Group		0.5 L/s, Temp: 21°C, EC: 130 μS/cm, TDS: 85 g/L, ORP: 142 mV	
- 200 -	Adaminaby	SLATE very fine grained, medium grey, SILTSTONE, 20% very fine grained, medium grey, 1% quartz SILTSTONE very fine grained, medium grey, low occurrence of quartz, rare pyrite, rare chlorite alteration, rare slate lenses	0.5 L/s, Temp: 23°C, EC: 115 μS/cm, TDS: 75 g/L, ORP: 138 mV	
— 210			0.5 L/s, Temp: 24°C, EC: 87 µS/cm, TDS: 57 g/L, ORP: 179 mV	
— 220 -			0.5 L/s, Temp: 21°C, EC: 127 μS/cm, TDS: 83 g/L, ORP: 162 mV 0.5 L/s, Temp: 22°C, EC: 93 μS/cm, TDS: 60 g/L, ORP: 148 mV	
— 230 -		SLATE very fine grained, dark grey, chlorite, altered; SILTSTONE, 10% very fine grained, medium grey, 10% quartz, rare pyrite SILTSTONE very fine grained, medium grey, varying occurrence of quartz, minor chlorite alteration, rare sericite, rare pyrite	0.5 L/s, Temp: 23°C, EC: 152 µS/cm, TDS: 100 g/L, ORP: 147 mV 0.5 L/s, Temp: 21°C, EC: 164 µS/cm, TDS: 107 g/L, ORP: 15 mV	
— 240		SILTSTONE very fine grained, medium grey, chlorite, altered; SLATE, 10% very fine grained, medium grey, 5% quartz	107 g/L, ORP: 15 mV 0.5 L/s, Temp: 24°C, EC: 118 µS/cm, TDS: 77 g/L, pH: 8.55, ORP: 86 mV	
— 250		SILTSTONE very fine grained, medium grey, varying occurrence of quartz, minor chlorite alteration, rare sericite, rare pyrite	0.5 L/s, Temp: 22°C, EC: 97 μS/cm, TDS: 56 g/L, pH: 8.68, ORP: 85 mV 0.5 L/s, Temp: 14°C, EC: 156 μS/cm, TDS: 101 g/L, pH: 8.54, ORP: 50 mV	

- 260 - 270		SILTSTONE very fine grained, medium grey, chlorite, altered; SLATE, 20% very fine grained, medium grey, 2% quartz SLATE very fine grained, medium grey, discovered to the second	0.5 L/s, Temp: 20°C, EC: 163 μS/cm, TDS: 106 g/L, pH: 8.68, ORP: 69 mV 0.5 L/s, Temp: 19°C, EC: 180 μS/cm, TDS: 117 g/L, pH: 8.73, ORP: 49 mV 0.5 L/s, Temp: 21°C, EC: 173 μS/cm, TDS: 112 g/L, pH: 8.71, ORP:		
- - 280	Adaminaby Group	SILTSTONE, 20% very fine grained, medium grey, rare pyrite SILTSTONE very fine grained, medium grey, 1% quartz, rare pyrite SILTSTONE very fine grained, medium grey, SLATE, 20% very fine grained, medium grey, 1% quartz, rare pyrite	48 mV 0.5 L/s, Temp: 20°C, EC: 114 μS/cm, TDS: 75 g/L, pH: 8.49, ORP: 50 mV 0.5 L/s, Temp: 20°C, EC: 141 μS/cm, TDS: 92 g/L, pH: 8.60, ORP: 55 mV		Bentonite seal (283 - 293 mBGL)
— 290 -		SLATE very fine grained, medium grey, SILTSTONE, 10% very fine grained, medium grey, 1% quartz SILTSTONE very fine grained, medium grey, chlorite, altered; 10% quartz SILTSTONE very fine grained, medium grey,	0.5 L/s, Temp: 20°C, EC: 195 µS/cm, TDS: 127 g/L, pH: 8.71, ORP: 56 mV 0.5 L/s, Temp: 20°C, EC: 101 µS/cm, TDS: 66 g/L, pH: 8.42, ORP: 59 mV		Gravel pack (5mm wash) (293 - 298 mBGL)
— 300 -		SILTSTONE very fine grained, medium grey SILTSTONE very fine grained, medium grey, SLATE, 10% very fine grained, medium grey, 1% quartz SILTSTONE very fine grained, medium grey, 1% quartz SILTSTONE very fine grained, medium grey, low occurrence of quartz, minor chlorite alteration, rare sericite, rare pyrite			4 inch open hole (298 - 318 mBGL)
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