APPENDIX A

BORE LOGS

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COMPOSITE WELL LOG

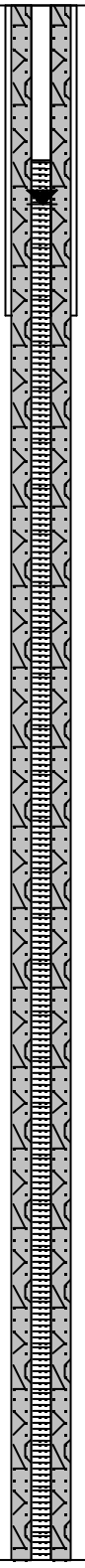
Well No: SRWB010S

Client: Moly Mines **Project:** Coppins Gap

Commenced:	25/10/06	**Method:**	RC	**Area:**	Spinifex Ridge
Completed:	25/10/06	**Fluid:**	Air	**East:**	199571.797
Drilled:	McKays	**Bit Record:**	5.625"	**North:**	7687820.482
Logged By:	TV			**Elevation:**	157.78 m RL

Static Water Level: 2.57m **Date:** 27/10/06

Depth (mbgl)	Geology	Graphic Log	Lithological Description	Field Notes	Well Completion Diagram	Well Completion Notes
0			WEATHERED ULTRAMAFIC: greenish-grey weekly weathered ultramafic	Yield 0.56 l/sec EC 1.72mS/cm Temp 30.3deg pH 8.4 hole drilled 4m from SRWB010-deep		6" surface casing from 0 - 4m blank 110mm PVC 0 - 2m
5			ULTRAMAFIC: green-gray fresh ultramafic			
10						
15						slotted 110mm PVC from 2 - 20m gravel pack in annulus from 0 - 20m
			ULTRAMAFIC WITH VEINS: grey-white ultramafic and quartz-carbonate veining			
			ULTRAMAFIC: green-grey fresh ultramafic			
20						



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COMPOSITE WELL LOG

Well No: SRWB010D

Client: Moly Mines **Project:** Coppins Gap

Commenced:	24/10/06	**Method:**	RC	**Area:**	Spinifex Ridge
Completed:	25/10/06	**Fluid:**	Air	**East:**	199568.078
Drilled:	McKays	**Bit Record:**	6"	**North:**	7687817.887
Logged By:	TV			**Elevation:**	157.78 m RL

Static Water Level: 2.67 **Date:** 27/10/06

Depth (mbgl)	Geology	Graphic Log	Lithological Description	Field Notes	Well Completion Diagram	Well Completion Notes
0			WEATHERED ULTRAMAFIC: greenish-grey weekly weathered ultramafic			
5			ULTRAMAFIC: green-gray fresh ultramafic	Collar partly blown out at 60m so airlift yield is a minimum - probably close to 1.5L/sec. Temp 28.6 deg pH 8.4		6" surface casing to 6m
10						
15			ULTRAMAFIC WITH VEINS: grey-white ultramafic and quartz-carbonate veining			
			ULTRAMAFIC: green-grey fresh ultramafic			
20			ULTRAMAFIC WITH VEINS: white, quartz vein			backfill from 44m to surface
25			ULTRAMAFIC: green-grey fresh ultramafic			
			ULTRAMAFIC WITH VEINS: grey-white ultramafic and quartz-carbonate veining			
			ULTRAMAFIC: green-grey fresh ultramafic			
30			ULTRAMAFIC WITH VEINS: mixed ultramafic and quartz vein			
			ULTRAMAFIC: grey-green, fresh ultramafic			
35						
40						
45						Bentonite plug at 44m gravel pack from 44 - 60m
50						slottled PVC from 48 - 60m
55						
60						

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COMPOSITE WELL LOG

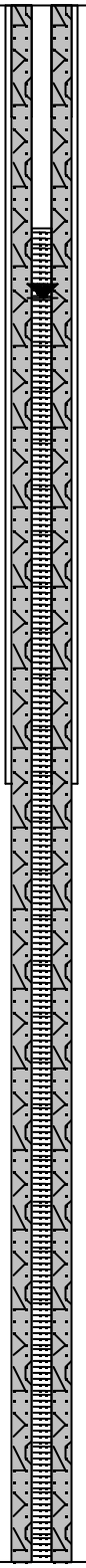
Well No: SRWB009S

Client: Moly Mines **Project:** Coppins Gap

Commenced:	26/10/06	**Method:**	RC	**Area:**	Spinifex Ridge
Completed:	26/10/06	**Fluid:**	Air	**East:**	199847.217
Drilled:	McKay	**Bit Record:**	6"	**North:**	7687885.017
Logged By:	TV (Aqua)			**Elevation:**	156.66 m RL

Static Water Level: 2.64 **Date:** 1/11/06

Depth (mbgl)	Geology	Graphic Log	Lithological Description	Field Notes	Well Completion Diagram	Well Completion Notes
0			SILICIFIED: Silicified ultramafic and calcrete	Airlift unsuccesful due to leak of air and water around collar.		
			WEATHERED ULTRAMAFIC: Weakly weathered talc-carbonate ultramafic			6" slotted PVC from 1 - 7m
5						
						2" slotted PVC from 2 - 14m
10						gravel in anulus between 6" PCV and 2" PCV from 7 - 14m
			TALC: Fresh talc-carbonate ultramafic			



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COMPOSITE WELL LOG

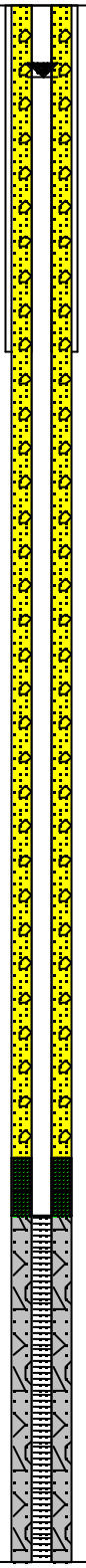
Well No: SRWB009D

Client: Moly Mines **Project:** Coppins Gap

Commenced:	15/10/06	**Method:**	RC	**Area:**	Spinifex Ridge
Completed:	15/10/06	**Fluid:**	Air	**East:**	199847.401
Drilled:	McKays	**Bit Record:**	6"	**North:**	7687880.67
Logged By:	MA (Moly), TV & VJ (Aqua)			**Elevation:**	156.765 m RL

Static Water Level: 2.5m **Date:** 27/10/06

Depth (mbgl)	Geology	Graphic Log	Lithological Description	Field Notes	Well Completion Diagram	Well Completion Notes
0			SILICIFIED: Silicified ultramafic and calcrete			
5			WEATHERED ULTRAMAFIC: Weakly weathered talc-carbonate ultramafic	Temp 32.2 deg pH 8.4 Yield estimate of 0.60 l/s from airlift testing		
10						ODEX steel casing installed to 12m
15			TALC: Fresh talc-carbonate ultramafic			
			ULTRAMAFIC WITH VEINS: Ultramafic with strong talc-carbonate veining			
20			ULTRAMAFIC: Fresh talc-carbonate ultramafic			backfill from 42m to surface
			ULTRAMAFIC WITH VEINS: Ultramafic with weak quartz veining			
25			ULTRAMAFIC: Fresh talc-carbonate ultramafic			
30						2" blank PVC to 42m
35						
40						bentonite plug
			CLAY: Intensely altered zone - clay-rich			
45			ULTRAMAFIC WITH VEINS: Ultramafic with 40% quartz veining			
			QUARTZ VEINING: Quartz-carbonate vein			
50			TALC: Talc-chlorite ultramafic schist			2" slotted PVC from 42m - 54m



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COMPOSITE WELL LOG

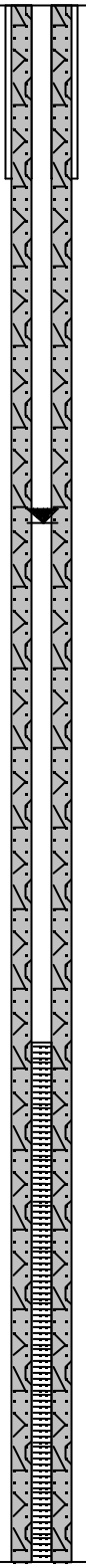
Well No: SRWB008S

Client: Moly Mines **Project:** Coppins Gap

Commenced:	14/10/2006	**Method:**	RC	**Area:**	Spinifex Ridge
Completed:	15/10/2006	**Fluid:**	Default Listing	**East:**	200041.34
Drilled:	McKays	**Bit Record:**	6"	**North:**	7687906.552
Logged By:	TV & VJ			**Elevation:**	160.021 m RL

Static Water Level: 0.67m **Date:** 1/11/06

Depth (mbgl)	Geology	Graphic Log	Lithological Description	Field Notes	Well Completion Diagram	Well Completion Notes
0			COLLUVIUM: Colluvium with siliceous fragments, mafic and felsic	Yield 0.11 l/s EC 1.80 mS/cm Temp 30 deg pH 8.6 SWL in adjacent bore SRWB008D stayed constant at 0.67mbtoc throughout airlift		6" surface casing to 2m
5			WEATHERED ULTRAMAFIC: Weakly weathered ultramafic - talc-chlorite schist			
10						slotted 2" PVC from 12 - 18m
15			SCHIST: Fresh talc-chlorite schist			gravel in entire anulus



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COMPOSITE WELL LOG

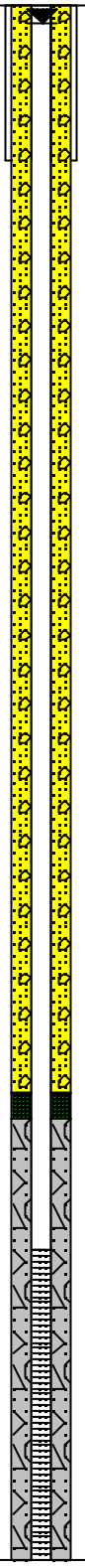
Well No: SRWB008D

Client: Moly Mines **Project:** Coppins Gap

Commenced:	14/10/2006	**Method:**	RC	**Area:**	Spinifex Ridge
Completed:	14/10/2006	**Fluid:**	Air	**East:**	200046.176
Drilled:	McKays	**Bit Record:**	6"	**North:**	7687912.216
Logged By:	MA (Moly), TV & VJ (Aqua)			**Elevation:**	159.812 m RL

Static Water Level: 0.67m **Date:** 1/11/06

Depth (mbgl)	Geology	Graphic Log	Lithological Description	Field Notes	Well Completion Diagram	Well Completion Notes
0			COLLUVIUM: Colluvium with siliceous fragments, mafic and felsic			
5			WEATHERED ULTRAMAFIC: Weakly weathered ultramafic - talc-chlorite schist			6" surface casing from 0 - 6m
10						
15			SCHIST: Fresh talc-chlorite schist	Airlifted for 10 minutes, no water after first initial burst		
20						back fill in anulus from surface to 42m
25			ULTRAMAFIC WITH VEINS: Talc-chlorite schist, with carbonate veining			
			SCHIST: Fresh talc-chlorite schist			
30			ULTRAMAFIC WITH VEINS: Talc-chlorite schist, with carbonate veining			blank 2" PVC to 48m
35			SCHIST: Fresh talc-chlorite schist			
40						bentonite plug at 42m
45						
50			ULTRAMAFIC WITH VEINS: Talc-chlorite schist, with strong carbonate veining			gravel from 43 - 60m in anulus
55			SCHIST: Fresh talc-chlorite schist			slotted 2" PVC between 48 & 60m
60						



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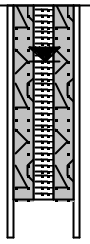
COMPOSITE WELL LOG

Well No: SRWB007S

Client: Moly Mines **Project:** Coppins Gap

Commenced:	26/10/2006	**Method:**	RC	**Area:**	Spinifex Ridge
Completed:	27/10/2006	**Fluid:**	Air	**East:**	200069.85
Drilled:	McKays	**Bit Record:**	6"	**North:**	7687790.858
Logged By:	JS, MA (Moly) & TV (Aqua)			**Elevation:**	156.637 m RL

Static Water Level: 1.92m **Date:** 28/10/06

Depth (mbgl)	Geology	Graphic Log	Lithological Description	Field Notes	Well Completion: Diagram	Well Completion: Notes
0			WEATHERED ULTRAMAFIC: Weathered, oxidised talc-chlorite altered ultramafic	Unable to complete airlift test Hole collapsed to 6.7m. Hole was initially drilled to 54m. Temp 31.5 deg pH 8.4		gravel from surface to 6.7m between surface casing and 2" pipe 2" slotted PVC to 6.7m 6" surface casing installed to 8m
10			TALC: Fresh talc-chlorite ultramafic			
15			ULTRAMAFIC WITH VEINS: As above with weak carbonate veining			
			TALC: Fresh talc-chlorite ultramafic, possibly schist			
20						
25			ULTRAMAFIC WITH VEINS: As above with up to 5% quartz veining in places			
30			TALC: Fresh talc-chlorite ultramafic, possibly schist			
35						
40			ULTRAMAFIC WITH VEINS: As above with up to 5% quartz veining			
			TALC: Fresh talc-chlorite ultramafic, possibly schist			
45			ULTRAMAFIC WITH VEINS: As above with up to 10% quartz veining in places			
50						

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COMPOSITE WELL LOG

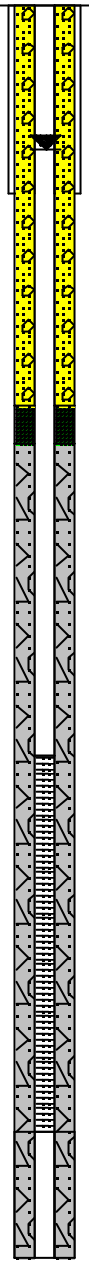
Well No: SRWB006S

Client: Moly Mines **Project:** Coppins Gap

Commenced:	14/10/06	**Method:**	RC	**Area:**	Spinifex Ridge
Completed:	14/10/06	**Fluid:**	Air	**East:**	200014.963
Drilled:	McKays	**Bit Record:**	6"	**North:**	7687610.467
Logged By:	TV & VJ			**Elevation:**	158.382 m RL

Static Water Level: 2.31m **Date:** 14/10/06

Depth (mbgl)	Geology	Graphic Log	Lithological Description	Field Notes	Well Completion Diagram	Well Completion Notes
0			COLLUVIUM: Transported colluvium			
			WEATHERED ULTRAMAFIC: Weakly weathered ultramafic - talc-chlorite altered	Yield 0.43l/s EC 1.56mS/cm Temp 3.1 deg pH 8.4		6" surface casing to 3m
5			ULTRAMAFIC: Strongly oxidised ultramafic			bentonite plug from 6.4 - 7m
			WEATHERED ULTRAMAFIC: Weakly weathered ultramafic - talc-chlorite altered			2" blank PVC to 12m
10						
15						2" slotted PVC from 12 - 18m
						gravel in anulus from 7 - 20m
20						
25						



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COMPOSITE WELL LOG

Well No: SRWB006D

Client: Moly Mines **Project:** Coppins Gap

Commenced:	14/10/06	**Method:**	RC	**Area:**	Spinifex Ridge
Completed:	14/10/06	**Fluid:**	Air	**East:**	200016.466
Drilled:	McKays	**Bit Record:**	6"	**North:**	7687614.291
Logged By:	MA (Moly), TV & VJ (Aqua)			**Elevation:**	158.158 m RL

Static Water Level: 2.34 **Date:** 28/10/06

Depth (mbgl)	Geology	Graphic Log	Lithological Description	Field Notes	Well Completion: Diagram	Well Completion: Notes
0			COLLUVIUM: Transported colluvium			6" surface casing to 3m
			WEATHERED ULTRAMAFIC: Weakly weathered ultramafic - talc-chlorite altered	Yield 0.22 l/s EC 1.58mS/cm Temp 29.5 deg pH 8.5		
5			ULTRAMAFIC: Strongly oxidised ultramafic			
			WEATHERED ULTRAMAFIC: Weakly weathered ultramafic - talc-chlorite altered			
10						
15						
20						2" blank PVC from 0 - 43m
25			ULTRAMAFIC: Strongly oxidised ultramafic - possible fracture			
			WEATHERED ULTRAMAFIC: Weakly weathered ultramafic - talc-chlorite altered			
30			ULTRAMAFIC: Strongly oxidised ultramafic - possible fracture			
			TALC: Fresh talc-chlorite ultramafic			
35			ULTRAMAFIC: Strongly oxidised ultramafic - possible fracture			
			WEATHERED ULTRAMAFIC: Weakly weathered ultramafic - talc-chlorite altered, spinifex textures			
40						
45			ULTRAMAFIC: Fresh talc-chlorite ultramafic, moderate quartz veining to 20%			bentonite plug from 43 - 47m
			TALC: Fresh talc-chlorite ultramafic			
50						
55						slotted 2' PVC from 51.5 - 63.5m
60						gravel pack in anulus from 47 - 65m
65						

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COMPOSITE WELL LOG

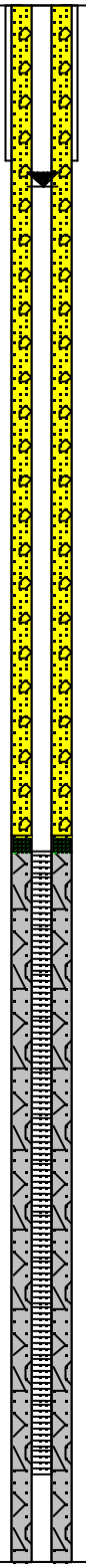
Well No: SRWB005S

Client: Moly Mines **Project:** Coppins Gap

Commenced:	11/10/06	**Method:**	RC	**Area:**	Spinifex Ridge
Completed:	11/10/06	**Fluid:**	Air	**East:**	199955.969
Drilled:	McKays	**Bit Record:**	6"	**North:**	7687485.023
Logged By:	TV & VJ			**Elevation:**	159.439 m RL

Static Water Level: 3.61m **Date:** 2/11/06

Depth (mbgl)	Geology	Graphic Log	Lithological Description	Field Notes	Well Completion Diagram	Well Completion Notes
0			SAND: Sand with basalt fragments			
			FELSIC: Weathered felsic	Yield 0.45 l/s EC 1.20mS/cm Temp 31.4 deg pH 8.5		6" PVC surface casing from 0 - 3m
5			BASALT: Bleached, weathered basalt			
10						2" blank PVC from 0 - 28.3m
15						bentonite plug from16m - 16.3m
20						back fill in anulus from surface to 16m
			BASALT: Weathered basalt with increased quartz veining up to 40% locally			2" slotted PVC from16.3m - 28.3m
25						gravel in anulus from 16.3m to 30m
			CHERT: Chert band			
30						



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COMPOSITE WELL LOG

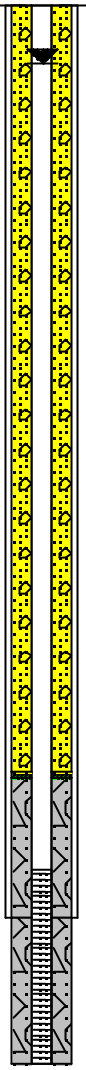
Well No: SRWB005D

Client: Moly Mines **Project:** Coppins Gap

Commenced:	11/10/06	**Method:**	RC	**Area:**	Spinifex Ridge
Completed:	11/10/06	**Fluid:**	Air	**East:**	1999954.784
Drilled:	McKays	**Bit Record:**	6"	**North:**	7687481.289
Logged By:	MA (Moly), TV & VJ (Aqua)			**Elevation:**	159.514 m RL

Static Water Level: 3.61m **Date:** 2/11/06

Depth (mbgl)	Geology	Graphic Log	Lithological Description	Field Notes	Well Completion: Diagram	Well Completion: Notes
0			SAND: Sand with basalt fragments			
			WEATHERED FELSIC: Weathered felsic			
5			BASALT: Bleached, weathered basalt			
10				Yield 0.77 l/s EC 1.25mS/cm Temp 34.2 deg pH 8.4		
15						
20			BASALT: Weathered basalt with increased quartz veining up to 40% locally	hole originally drilled to 96m. Due to encountering problems with fallback, the 2" PVC could only be installed to 64m in the end.		back fill in anulus from 0-47m
25						
			CHERT: Chert band			
30			WEATHERED BASALT: Weathered basalt with increased quartz veining up to 40% locally			50mm blank PVC from 0 - 53m
35						
40						6" ODEX steel surface casing from 0 - 56m
45			CHERT: Chert band			bentonite plug from 47m - 47.4m
50			WEATHERED BASALT: Weakly weathered basalt with minor chert bands			
55						50mm slotted PVC from 53m - 65m
60						
			PORPHYRY: Weakly weathered quartz-felspar porphyry			gravel in anulus from 47.4m to 64m
65						
70			PORPHYRY: Fresh quartz-feldspar porphyry			
75						
80						
85						
90			FELSIC: Fresh felsic			
95						



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COMPOSITE WELL LOG

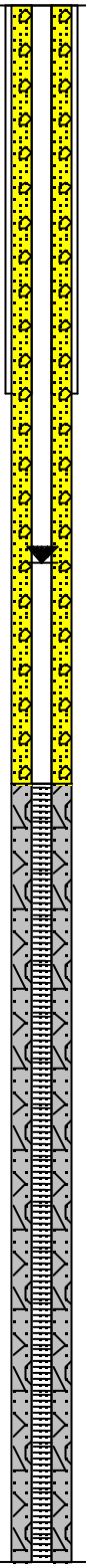
Well No: SRWB004S

Client: Moly Mines **Project:** Coppins Gap

Commenced:	11/10/06	**Method:**	RC	**Area:**	Spinifex Ridge
Completed:	11/10/06	**Fluid:**	Air	**East:**	199843.159
Drilled:	McKays	**Bit Record:**	5.625"	**North:**	7687351.305
Logged By:	TV & VJ (Aqua)			**Elevation:**	160.588 m RL

Static Water Level: 4.29m **Date:** 29/10/06

Depth (mbgl)	Geology	Graphic Log	Lithological Description	Field Notes	Well Completion Diagram	Well Completion Notes
0			COLLUVIUM: Transported Colluvium	Yield 0.04 l/sec EC 1.05mS/cm Temp 32.0 deg pH 8.4		6" surface casing from 0m - 3m
			SAPROCK: Saprock - strongly weathered quartz-feldspar porphyry (QFP)			blank 110mm PVC from 0 - 6m
5			PORPHYRY: Weakly weathered QFP			backfill from 0 - 6m slotted 110mm PVC from 6m - 12m gravel pack in annulus from 6m - 12m
10						



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COMPOSITE WELL LOG

Well No: SRWB004D

Client: Moly Mines **Project:** Coppins Gap

Commenced:	10/10/06	**Method:**	RC	**Area:**	Spinifex Ridge
Completed:	11/10/06	**Fluid:**	Air	**East:**	199839.11
Drilled:	McKays	**Bit Record:**	5.625"	**North:**	7687355.314
Logged By:	MA (Moly) TV & VJ (Aqua)			**Elevation:**	160.376 m RL

Static Water Level: 2.60 m **Date:** 16/10/06

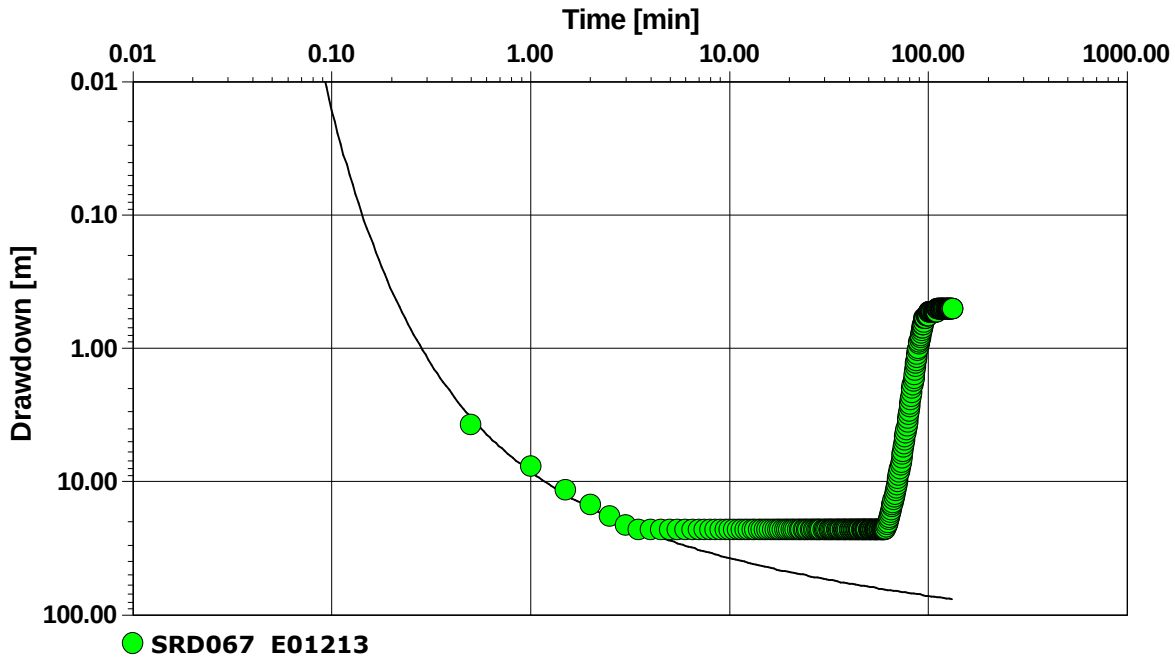
Depth (mbgl)	Geology	Graphic Log	Lithological Description	Field Notes	Well Completion Diagram	Well Completion Notes
0			COLLUVIUM: Transported colluvium			
			SAPROCK: Saprock - strongly weathered quartz-feldspar porphyry (QFP)			
5			PORPHYRY: Weakly weathered QFP	Yield 0.12 l/sec EC 1.66mS/cm Temp 29.1 deg pH 8.5		6" Steel surface casing from 0 - 12m
10						backfill from 0 - 43.5m
15			PORPHYRY: QFP - stongly weathered on fracture			
			PORPHYRY: Weakly weathered QFP			
20						50 mm PVC Blank Pipe from 0 - 43.5m
25						
			PORPHYRY: QFP - stongly weathered on fractures			
30						
			BASALT: Fresh basalt, strongly silicified			
35			CHERT: Chert			
40						
			PORPHYRY: Fresh QFP			bentonite plug from 43 - 43.5m
45						slotted 50mm from PVC 43.5m - 55m
50						
55						gravel pack from 43.5 - 60m
60						

APPENDIX B

HYDRAULIC ANALYSIS

Moly Mines Limited **Spinifex Ridge Project**	**Pumping Test Analysis Report**	B
	Project: Canning Basin	
	Number: 689	
	Client: Moly Mines	

Location: Pilbara	Pumping Test: Pumping Test 1	Pumping well: SRD067 E01213
Test conducted by:		Test date: 25/03/2007
Analysis performed by: Aquaterra	Constant Rate	Date: 4/04/2007
Aquifer Thickness: 424.00 m	Discharge: variable, average rate 0.10055 [l/s]	

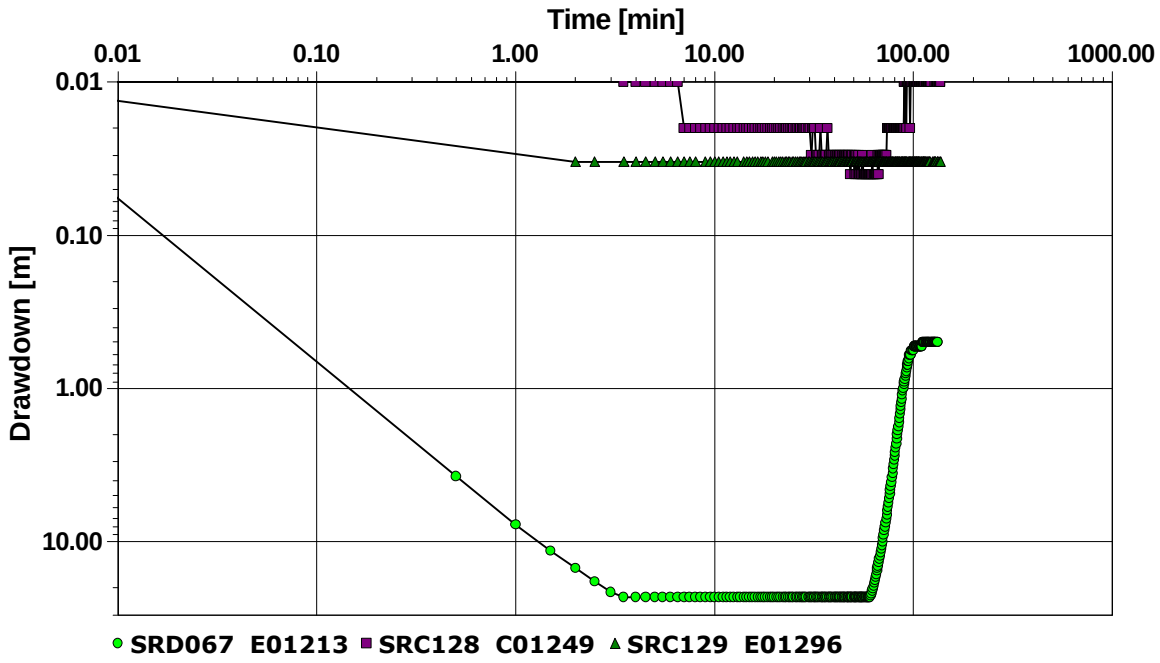


Calculation after Theis

Observation well	Transmissivity [m²/d]	K [m/d]	Storage coefficient	Radial distance to PW [m]
SRD067 E01213	4.53×10^{-2}	1.07×10^{-4}	1.69×10^{-2}	0.06

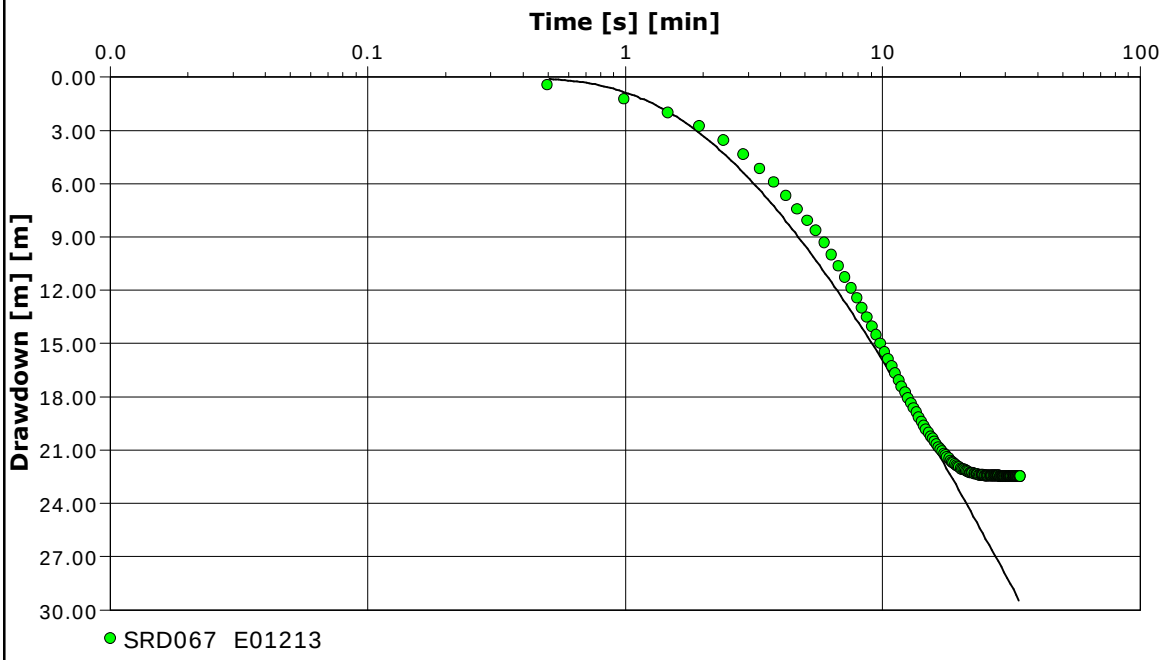
Moly Mines Limited **Spinifex Ridge Project**	**Pumping Test Analysis Report**	B
	Project: Canning Basin	
	Number: 689	
	Client: Moly Mines	

Location: Pilbara	Pumping Test: Pumping Test 1	Pumping well: SRD067 E01213
Test conducted by:		Test date: 25/03/2007
Analysis performed by: Aquaterra	Time Drawdown	Date: 27/04/2007
Aquifer Thickness: 424.00 m	Discharge: variable, average rate 0.10055 [l/s]	



Moly Mines Limited Spinifex Ridge Project	Pumping Test Analysis Report	B
	Project: Canning Basin	
	Number: 689	
	Client: Moly Mines	

Location: Pilbara	Pumping Test: Pumping Test 1	Pumping well: SRD067 E01213
Test conducted by:		Test date: 25/03/2007
Analysis performed by: Aquaterra	Recovery	Date: 27/04/2007
Aquifer Thickness: 424.00 m	Discharge: variable, average rate 0.10055 [l/s]	

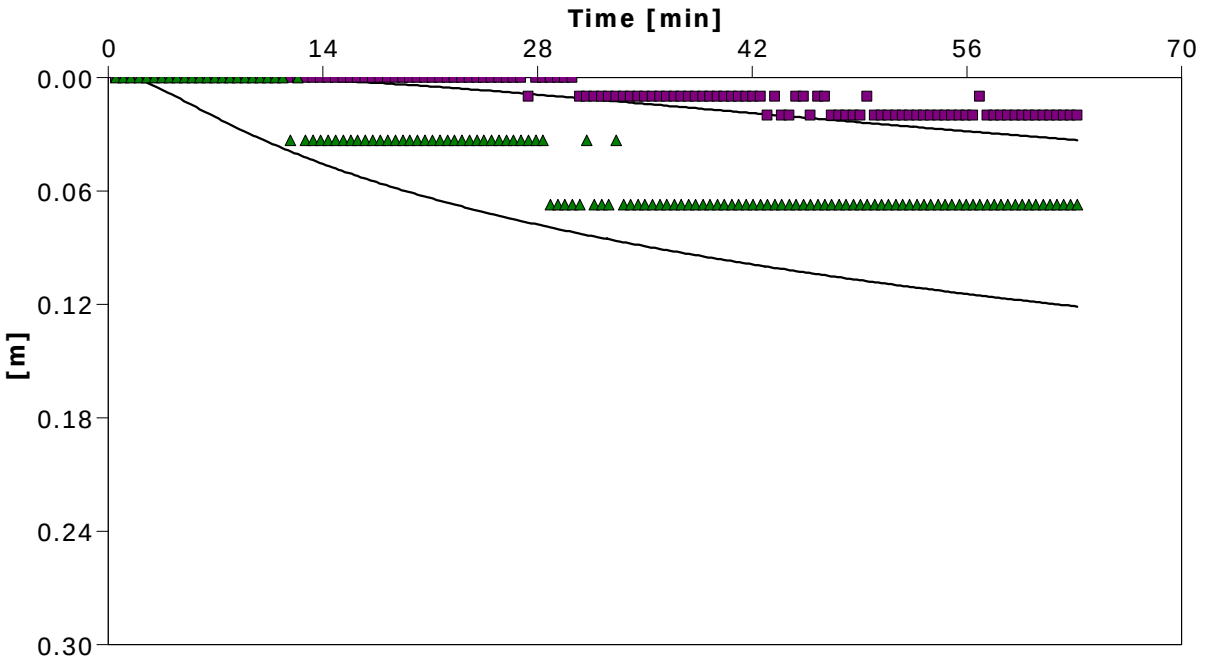


Calculation after AGARWAL + Theis with Jacob Correction

Observation well	Transmissivity [m²/d]	K [m/d]	Storage coefficient	Radial distance to PW [m]
SRD067 E01213	2.03×10^{-1}	4.78×10^{-4}	2.54×10^{-1}	0.06

Moly Mines Limited **Spinifex Ridge Project**	**Pumping Test Analysis Report**	B
	Project: Canning Basin	
	Number: 689	
	Client: Moly Mines	

Location: Pilbara	Pumping Test: SRD087	Pumping well: SRD087 E01213
Test conducted by:		Test date: 24/03/2007
Analysis performed by: Aquaterra	Constant Rate - obs	Date: 3/04/2007
Aquifer Thickness: 280.00 m	Discharge: variable, average rate 0.84555 [l/s]	

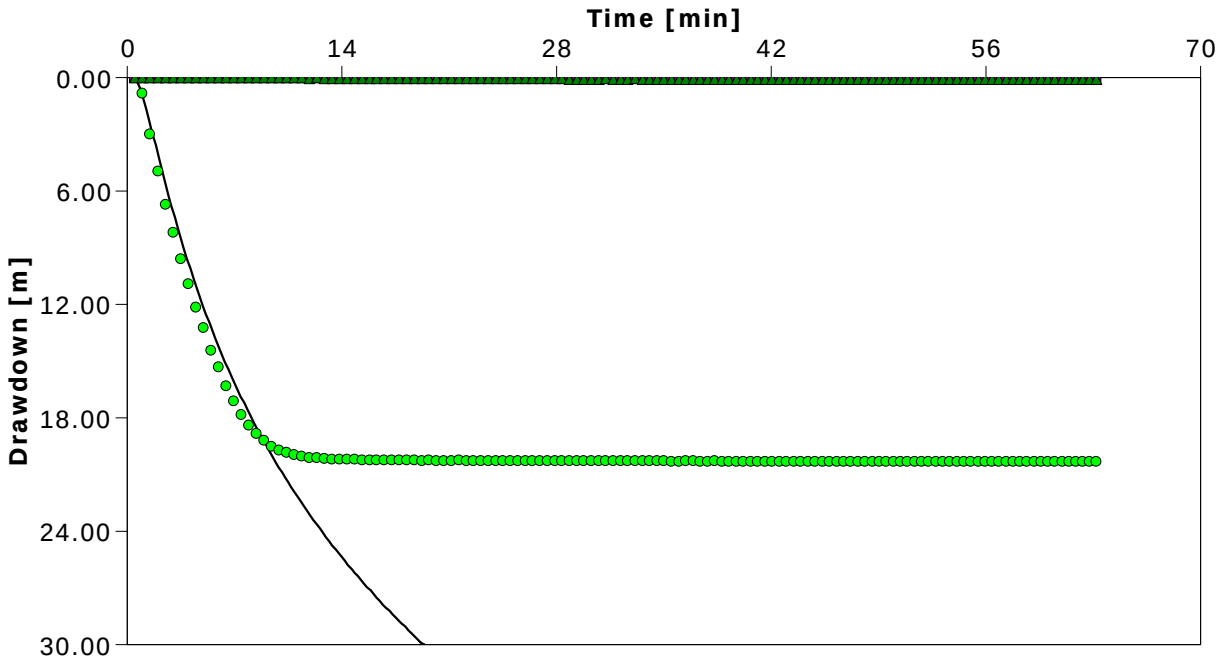


Calculation after AGARWAL + Theis

Observation well	Transmissivity [m²/d]	K [m/d]	Storage coefficient	Radial distance to PW [m]	
SRD087 E01213	1.77×10^{0}	6.34×10^{-3}	5.89×10^{-2}	0.06	
SRC120 C01249	9.78×10^{1}	3.49×10^{-1}	3.00×10^{-4}	68.52	
SRC123 E01296	8.06×10^{1}	2.88×10^{-1}	8.61×10^{-3}	31.51	
Average	6.01×10^{1}	2.15×10^{-1}	2.26×10^{-2}		

Moly Mines Limited **Spinifex Ridge Project**	**Pumping Test Analysis Report**	B
	Project: Canning Basin	
	Number: 689	
	Client: Moly Mines	

Location: Pilbara	Pumping Test: SRD087	Pumping well: SRD087 E01213
Test conducted by:		Test date: 24/03/2007
Analysis performed by: Aquaterra	Constant Rate - Recovery	Date: 20/04/2007
Aquifer Thickness: 280.00 m	Discharge: variable, average rate 0.84555 [l/s]	

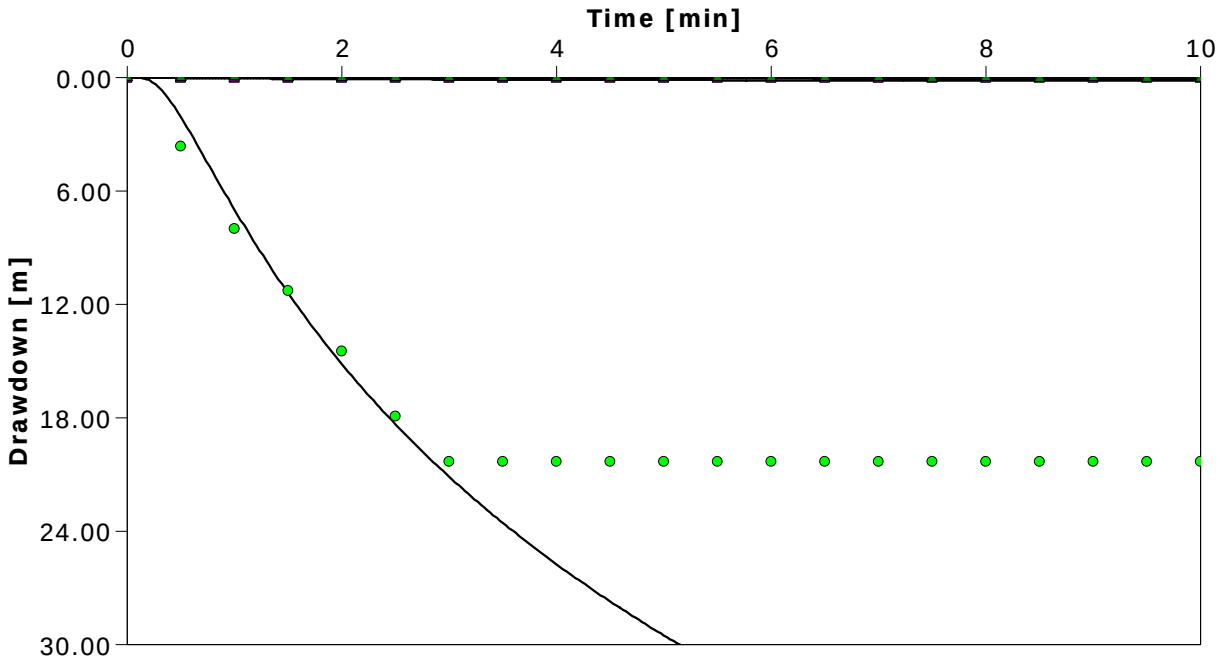


Calculation after AGARWAL + Theis

Observation well	Transmissivity [m²/d]	K [m/d]	Storage coefficient	Radial distance to PW [m]	
SRD087 E01213	3.69×10^{-1}	1.32×10^{-3}	5.00×10^{-1}	0.06	
SRC120 C01249	8.64×10^{1}	3.09×10^{-1}	1.00×10^{-4}	68.52	
SRC123 E01296	8.64×10^{1}	3.09×10^{-1}	1.00×10^{-4}	31.51	
Average	5.77×10^{1}	2.06×10^{-1}	1.67×10^{-1}		

Moly Mines Limited Spinifex Ridge Project	Pumping Test Analysis Report	B
	Project: Canning Basin	
	Number: 689	
	Client: Moly Mines	

Location: Pilbara	Pumping Test: SRD087	Pumping well: SRD087 E01213
Test conducted by:		Test date: 24/03/2007
Analysis performed by: Aquaterra	Constant Rate - Pump	Date: 20/04/2007
Aquifer Thickness: 280.00 m	Discharge: variable, average rate 0.84555 [l/s]	

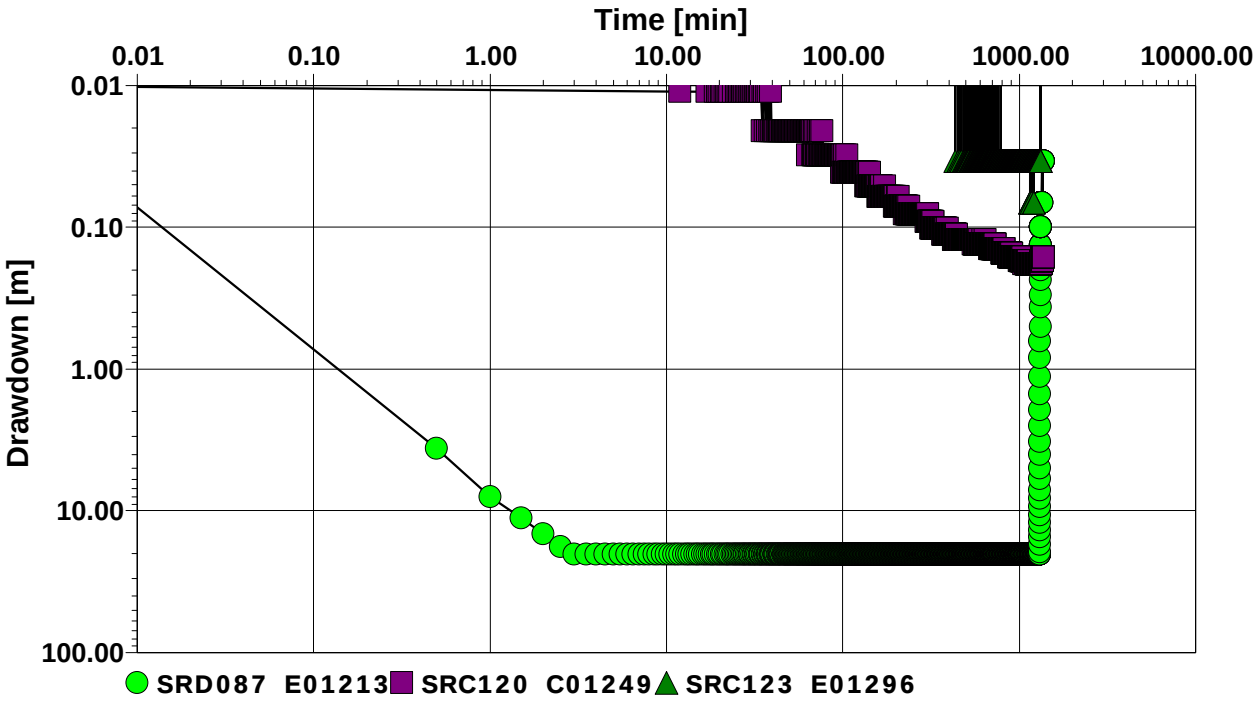


Calculation after Theis

Observation well	Transmissivity [m²/d]	K [m/d]	Storage coefficient	Radial distance to PW [m]	
SRD087 E01213	2.92×10^{-1}	1.04×10^{-3}	1.58×10^{-1}	0.06	
SRC120 C01249	8.64×10^{1}	3.09×10^{-1}	1.00×10^{-4}	68.52	
SRC123 E01296	8.64×10^{1}	3.09×10^{-1}	1.00×10^{-4}	31.51	
Average	5.77×10^{1}	2.06×10^{-1}	5.29×10^{-2}		

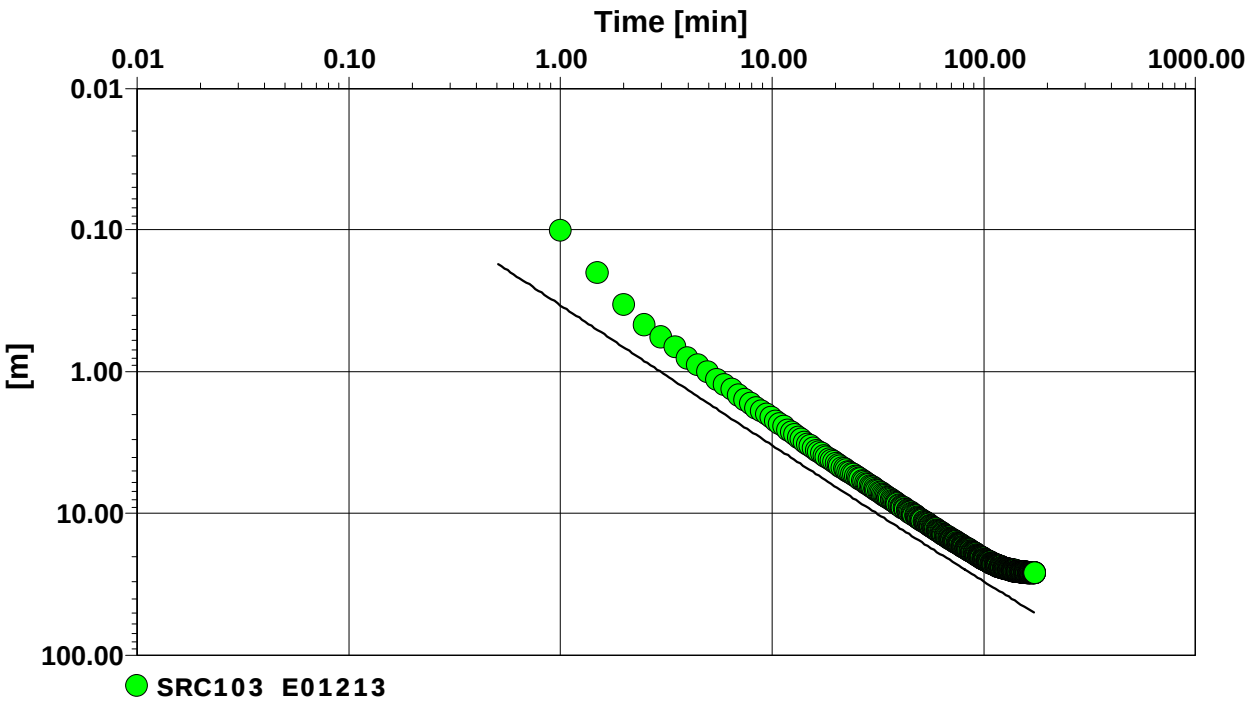
Moly Mines Limited **Spinifex Ridge Project**	**Pumping Test Analysis Report**	B
	Project: Canning Basin	
	Number: 689	
	Client: Moly Mines	

Location: Pilbara	Pumping Test: SRD087	Pumping well: SRD087 E01213
Test conducted by:		Test date: 24/03/2007
Analysis performed by: Aquaterra	Time Drawdown	Date: 25/04/2007
Aquifer Thickness: 280.00 m	Discharge: variable, average rate 0.84555 [l/s]	



Moly Mines Limited Spinifex Ridge Project	Pumping Test Analysis Report	B
	Project: Spinifex Ridge	
	Number: 689	
	Client: Moly Mines	

Location: Spinifex Ridge	Pumping Test: SRC103	Pumping well: SRC103 E01213
Test conducted by: Aquaterra		Test date: 22/03/2007
Analysis performed by: Aquaterra	SRC103 - Recovery	Date: 4/04/2007
Aquifer Thickness: 170.00 m	Discharge: variable, average rate 0.066574 [l/s]	

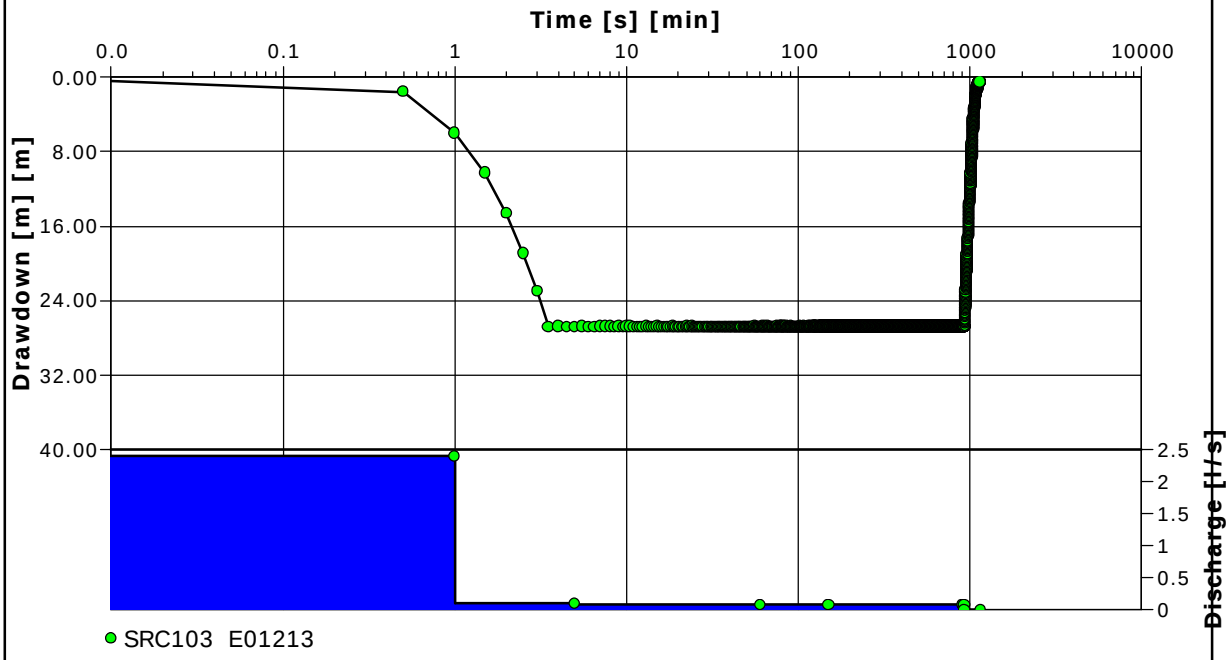


Calculation after AGARWAL + Papadopulos & Cooper

Observation well	Transmissivity [m²/d]	K [m/d]	Well-bore storage coeffic	Radial distance to PW [m]	
SRC103 E01213	1.03×10^{-3}	6.06×10^{-6}	5.00×10^{-1}	0.07	

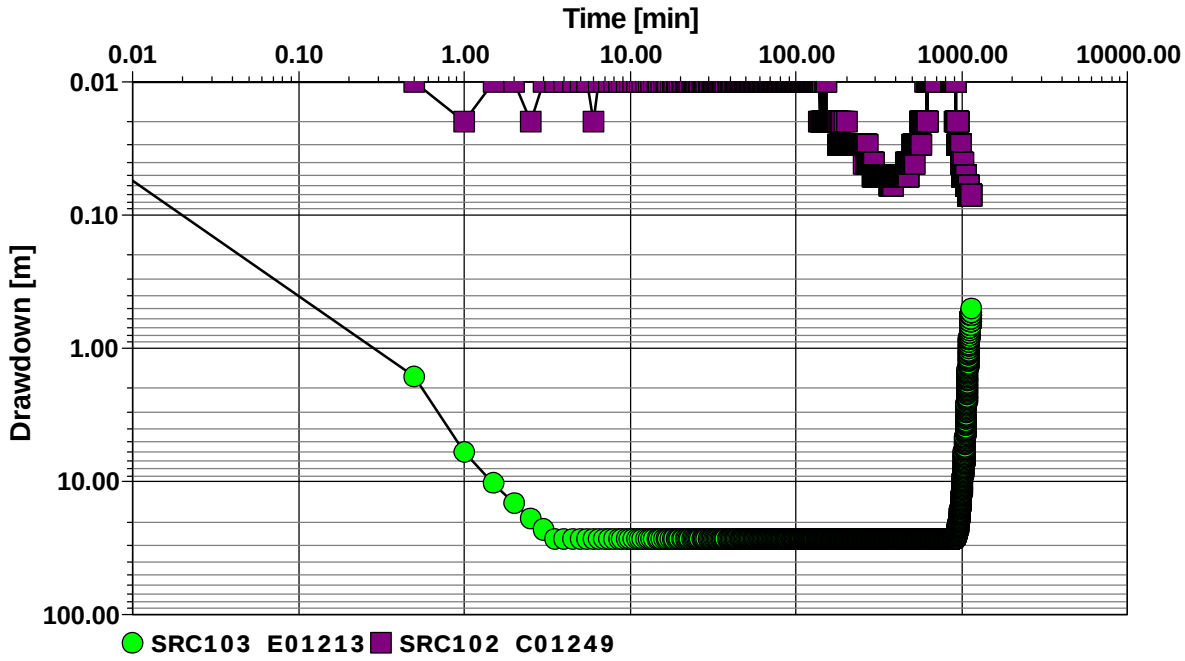
Moly Mines Limited Spinifex Ridge Project	Pumping Test Analysis Report	B
	Project: Spinifex Ridge	
	Number: 689	
	Client: Moly Mines	

Location: Spinifex Ridge	Pumping Test: SRC103	Pumping well: SRC103 E01213
Test conducted by: Aquaterra		Test date: 22/03/2007
Analysis performed by: Aquaterra	SRC103 - Time Drawdown	Date: 5/04/2007
Aquifer Thickness: 170.00 m	Discharge: variable, average rate 0.066574 [l/s]	



Moly Mines Limited Spinifex Ridge Project	Pumping Test Analysis Report	B
	Project: Spinifex Ridge	
	Number: 689	
	Client: Moly Mines	

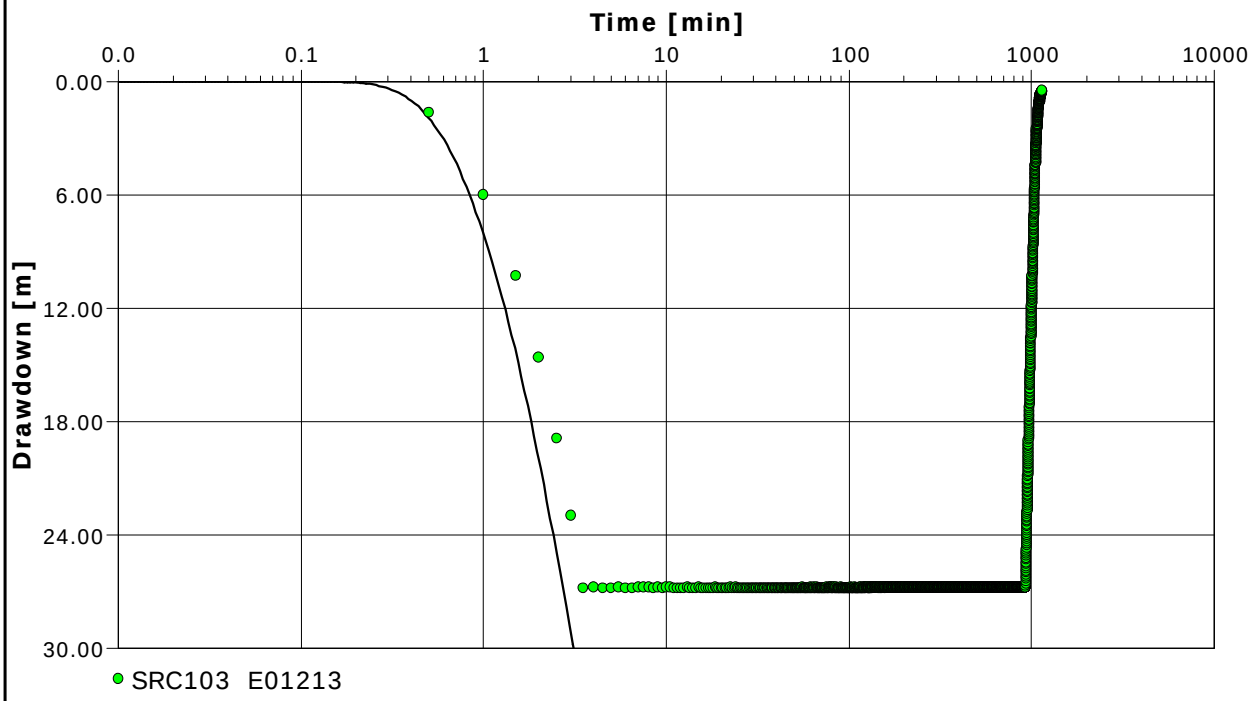
Location: Spinifex Ridge	Pumping Test: SRC103	Pumping well: SRC103 E01213
Test conducted by: Aquaterra		Test date: 22/03/2007
Analysis performed by: Aquaterra	Constant Rate - Obs	Date: 20/04/2007
Aquifer Thickness: 170.00 m	Discharge: variable, average rate 0.066574 [l/s]	



Atmospheric effects observed in obs bore only.

Moly Mines Limited Spinifex Ridge Project	Pumping Test Analysis Report	B
	Project: Spinifex Ridge	
	Number: 689	
	Client: Moly Mines	

Location: Spinifex Ridge	Pumping Test: SRC103	Pumping well: SRC103 E01213
Test conducted by: Aquaterra		Test date: 22/03/2007
Analysis performed by: Aquaterra	Constant Rate - Pump	Date: 20/04/2007
Aquifer Thickness: 170.00 m	Discharge: variable, average rate 0.066574 [l/s]	



Calculation after Theis

Observation well	Transmissivity [m²/d]	K [m/d]	Storage coefficient	Radial distance to PW [m]
SRC103 E01213	1.37×10^{-2}	8.05×10^{-5}	8.05×10^{-3}	0.07

Moly Mines Limited
Spinifex Ridge Project

Pumping Test - Water Level Data

Project: Spinifex Ridge

Number: 689D

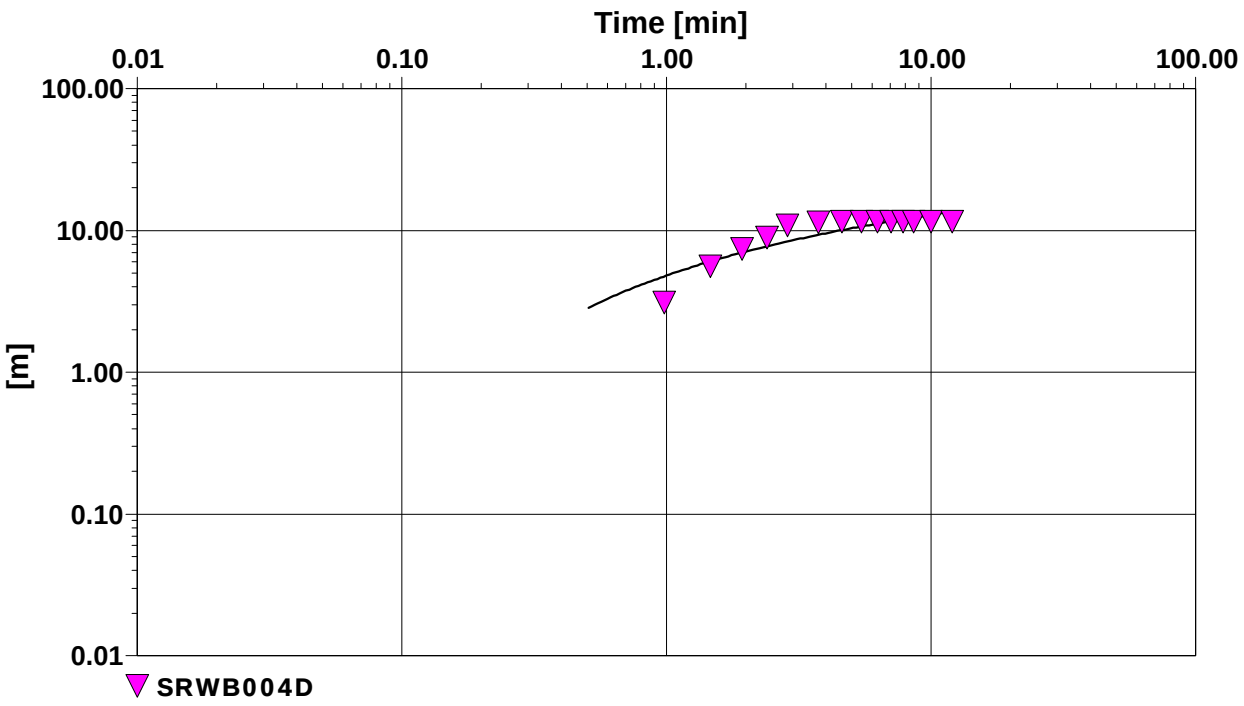
Client: Moly Mines

Location: Spinifex Ridge	Pumping Test: SRWB04D - Airlift Recovery	Pumping well: SRWB004D
Test conducted by:	Test date: 22/04/2007	Discharge: variable, average rate 0.06 [l/s]
Observation well: SRWB004D	Static water level [m]: 4.16	Radial distance to PW [m]: -

	Time [min]	Water Level [m]	Drawdown [m]
1	60.5	15.70	11.54
2	61	12.60	8.44
3	61.5	10.15	5.99
4	62	8.32	4.16
5	62.5	6.75	2.59
6	63	4.92	0.76
7	64	4.33	0.17
8	65	4.20	0.04
9	66	4.17	0.01
10	67	4.17	0.01
11	68	4.17	0.01
12	69	4.17	0.01
13	70	4.17	0.01
14	72	4.17	0.01
15	75	4.16	0.00

Moly Mines Limited Spinifex Ridge Project	Pumping Test Analysis Report	B
	Project: Spinifex Ridge	
	Number: 689D	
	Client: Moly Mines	

Location: Spinifex Ridge	Pumping Test: SRWB04D - Airlift Recovery	Pumping well: SRWB004D
Test conducted by:		Test date: 22/04/2007
Analysis performed by: Aquaterra	Recovery	Date: 22/04/2007
Aquifer Thickness: 12.00 m	Discharge: variable, average rate 0.06 [l/s]	

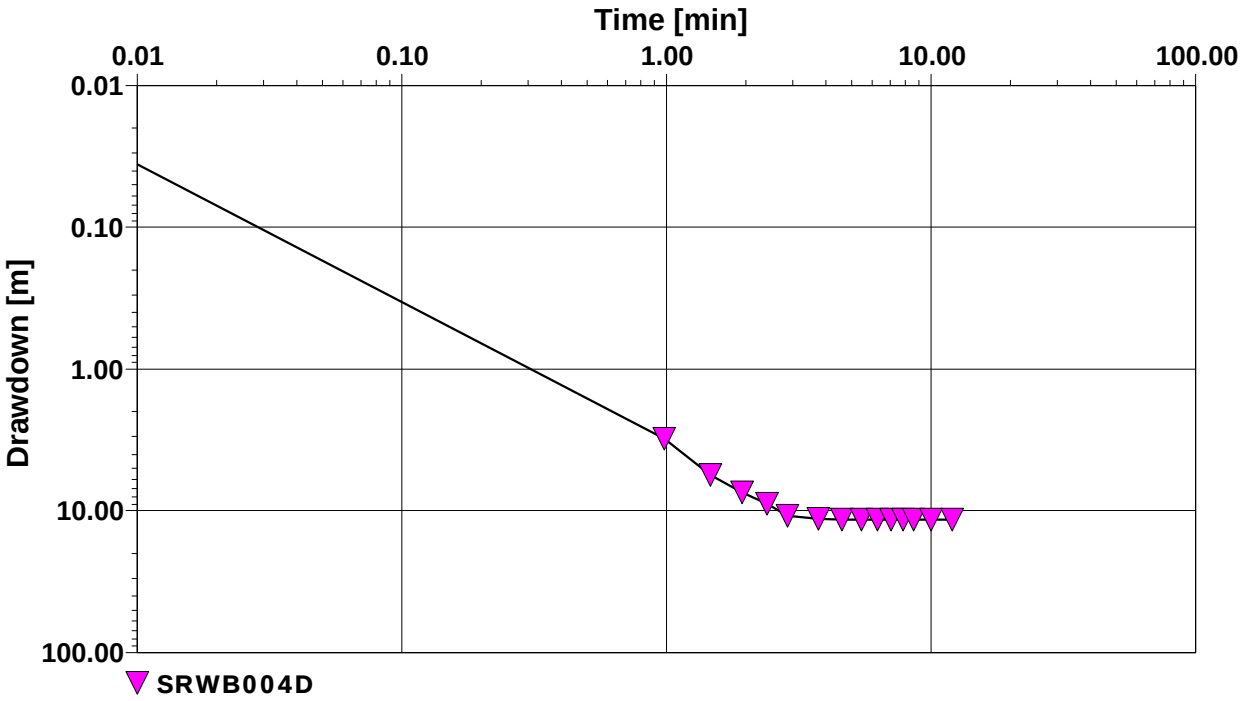


Calculation after AGARWAL + Theis

Observation well	Transmissivity [m²/d]	K [m/d]	Storage coefficient	Radial distance to PW [m]	
SRWB004D	2.19×10^{-1}	1.82×10^{-2}	1.58×10^{-1}	0.03	

Moly Mines Limited **Spinifex Ridge Project**	**Pumping Test Analysis Report**	B
	Project: Spinifex Ridge	
	Number: 689D	
	Client: Moly Mines	

Location: Spinifex Ridge	Pumping Test: SRWB04D - Airlift Recovery	Pumping well: SRWB004D
Test conducted by:		Test date: 22/04/2007
Analysis performed by: Aquaterra	Time Drawdown	Date: 22/04/2007
Aquifer Thickness: 12.00 m	Discharge: variable, average rate 0.06 [l/s]	



Moly Mines Limited
Spinifex Ridge Project

Pumping Test - Water Level Data

Project: Spinifex Ridge

Number: 689D

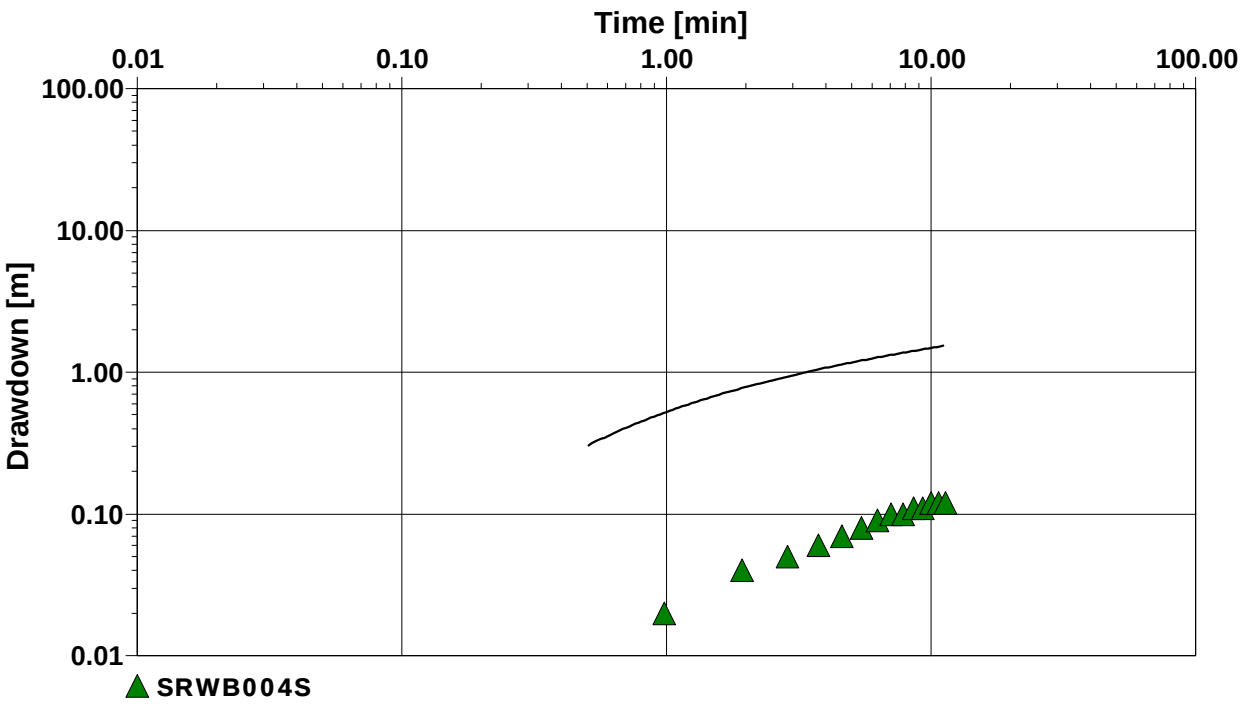
Client: Moly Mines

Location: Spinifex Ridge	Pumping Test: SRWB04S - Airlift Recovery	Pumping well: SRWB004S
Test conducted by: Aquaterra	Test date: 11/10/2006	Discharge: variable, average rate 0.03 [l/s]
Observation well: SRWB004S	Static water level [m]: 4.31	Radial distance to PW [m]: -

	Time [min]	Water Level [m]	Drawdown [m]
1	60.5	8.78	4.47
2	61	8.76	4.45
3	62	8.74	4.43
4	63	8.73	4.42
5	64	8.72	4.41
6	65	8.71	4.40
7	66	8.70	4.39
8	67	8.69	4.38
9	68	8.68	4.37
10	69	8.68	4.37
11	70	8.67	4.36
12	71	8.67	4.36
13	72	8.66	4.35
14	73	8.66	4.35
15	74	8.66	4.35

Moly Mines Limited Spinifex Ridge Project	Pumping Test Analysis Report	B
	Project: Spinifex Ridge	
	Number: 689D	
	Client: Moly Mines	

Location: Spinifex Ridge	Pumping Test: SRWB04S - Airlift Recovery	Pumping well: SRWB004S
Test conducted by: Aquaterra		Test date: 11/10/2006
Analysis performed by: Aquaterra	SRWB04S Airlift Recovery	Date: 31/10/2006
Aquifer Thickness: 12.00 m	Discharge: variable, average rate 0.03 [l/s]	

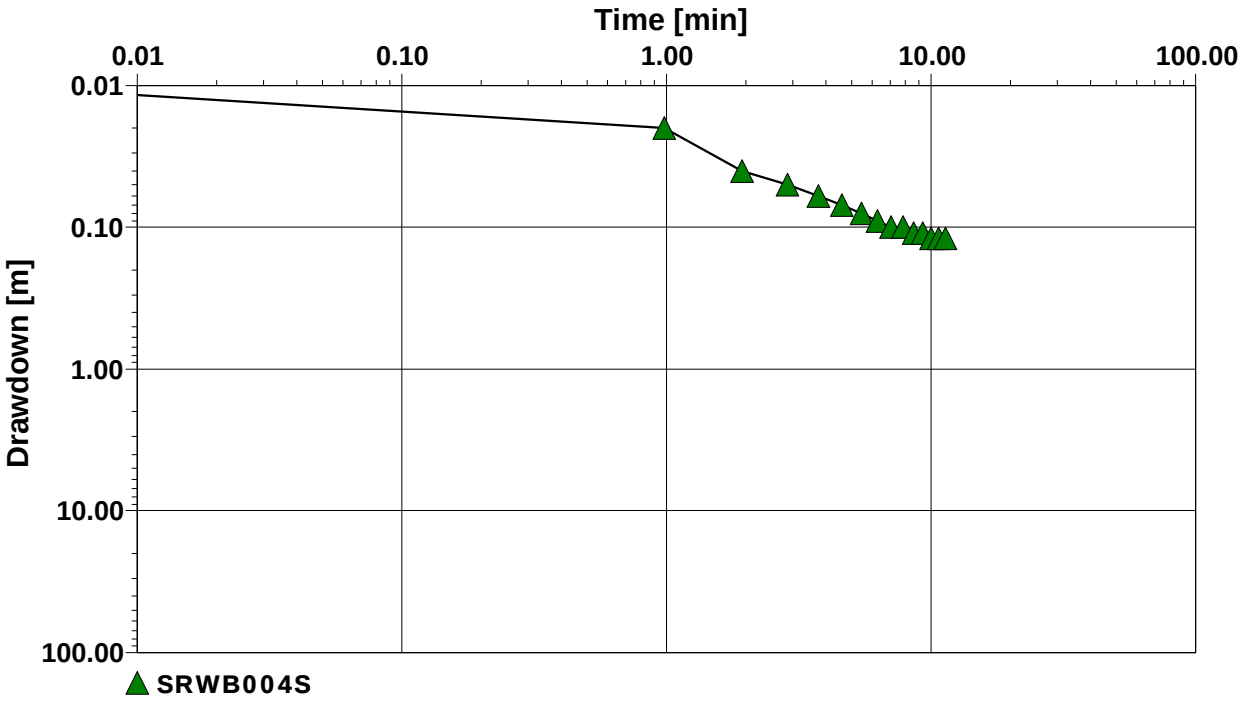


Calculation after AGARWAL + Theis with Jacob Correction

Observation well	Transmissivity [m²/d]	K [m/d]	Storage coefficient	Radial distance to PW [m]	
SRWB004S	6.71×10^{-1}	5.59×10^{-2}	5.00×10^{-1}	0.03	

Moly Mines Limited **Spinifex Ridge Project**	**Pumping Test Analysis Report**	B
	Project: Spinifex Ridge	
	Number: 689D	
	Client: Moly Mines	

Location: Spinifex Ridge	Pumping Test: SRWB04S - Airlift Recovery	Pumping well: SRWB004S
Test conducted by: Aquaterra		Test date: 11/10/2006
Analysis performed by: Aquaterra	Time Drawdown	Date: 23/04/2007
Aquifer Thickness: 12.00 m	Discharge: variable, average rate 0.03 [l/s]	



Moly Mines Limited
Spinifex Ridge Project

Pumping Test - Water Level Data

Project: Spinifex Ridge

Number: 689D

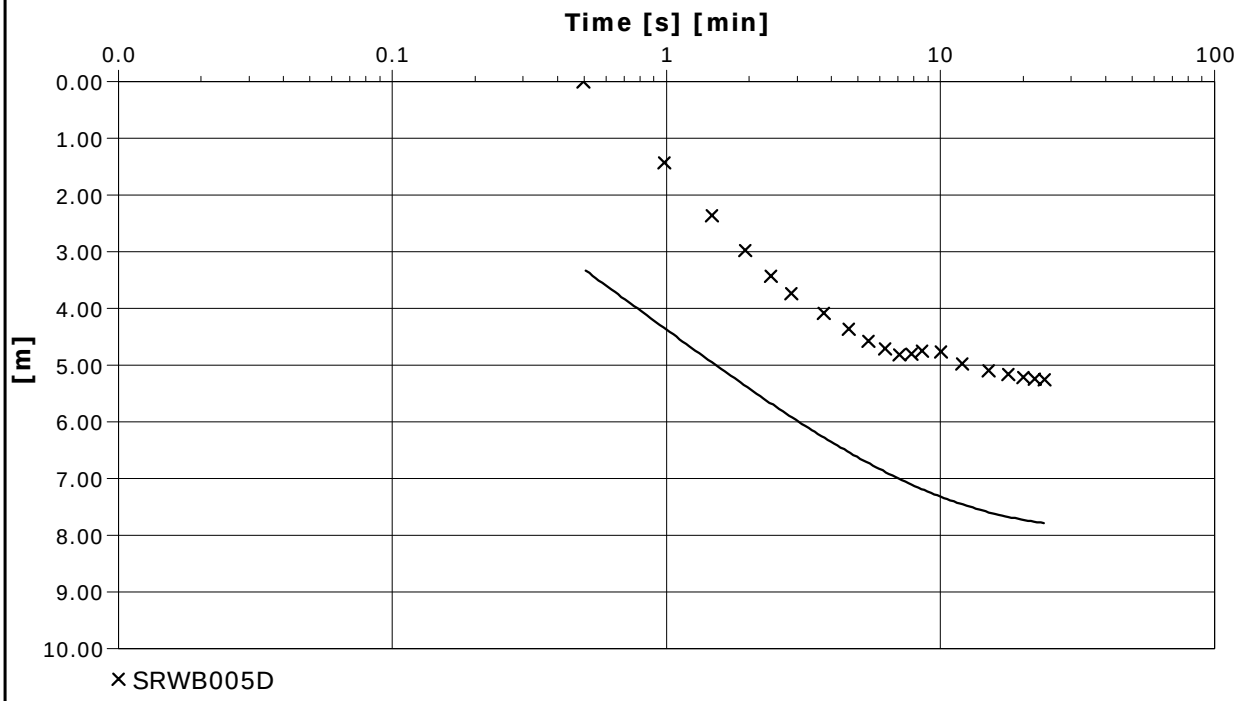
Client: Moly Mines

Location: Spinifex Ridge	Pumping Test: SRWB05D - Airlift Recovery	Pumping well: SRWB005D
Test conducted by:	Test date: 22/04/2007	Discharge: variable, average rate 0.25 [l/s]
Observation well: SRWB005D	Static water level [m]: 3.61	Radial distance to PW [m]: -

	Time [min]	Water Level [m]	Drawdown [m]
1	60.5	9.00	5.39
2	61	7.57	3.96
3	61.5	6.64	3.03
4	62	6.03	2.42
5	62.5	5.57	1.96
6	63	5.26	1.65
7	64	4.92	1.31
8	65	4.64	1.03
9	66	4.43	0.82
10	67	4.29	0.68
11	68	4.18	0.57
12	69	4.20	0.59
13	70	4.25	0.64
14	72	4.24	0.63
15	75	4.03	0.42
16	80	3.91	0.30
17	85	3.84	0.23
18	90	3.79	0.18
19	95	3.76	0.15
20	100	3.75	0.14

Moly Mines Limited **Spinifex Ridge Project**	**Pumping Test Analysis Report**	B
	Project: Spinifex Ridge	
	Number: 689D	
	Client: Moly Mines	

Location: Spinifex Ridge	Pumping Test: SRWB05D - Airlift Recovery	Pumping well: SRWB005D
Test conducted by:		Test date: 22/04/2007
Analysis performed by: Aquaterra	Recovery	Date: 22/04/2007
Aquifer Thickness: 12.00 m	Discharge: variable, average rate 0.25 [l/s]	

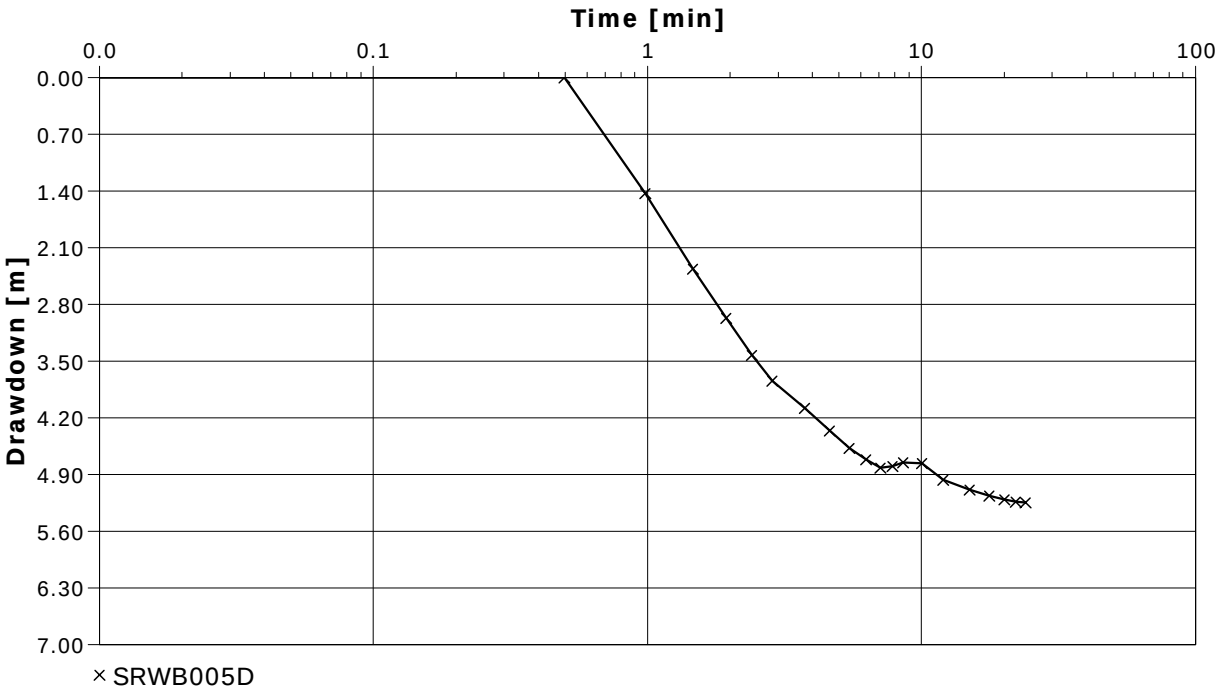


Calculation after AGARWAL + Hantush

Observation well	Transmissivity [m²/d]	K [m/d]	Storage coefficient	P	Hydr. resistance [min]	Radial distance to PW [m]
SRWB005D	3.00×10^{0}	2.50×10^{-1}	5.00×10^{-1}	1.00×10^{2}	2.64×10^{1}	0.03

Moly Mines Limited **Spinifex Ridge Project**	**Pumping Test Analysis Report**	B
	Project: Spinifex Ridge	
	Number: 689D	
	Client: Moly Mines	

Location: Spinifex Ridge	Pumping Test: SRWB05D - Airlift Recovery	Pumping well: SRWB005D
Test conducted by:		Test date: 22/04/2007
Analysis performed by: Aquaterra	Time Drawdown	Date: 22/04/2007
Aquifer Thickness: 12.00 m	Discharge: variable, average rate 0.25 [l/s]	



Moly Mines Limited
Spinifex Ridge Project

Pumping Test - Water Level Data

Project: Spinifex Ridge

Number: 689D

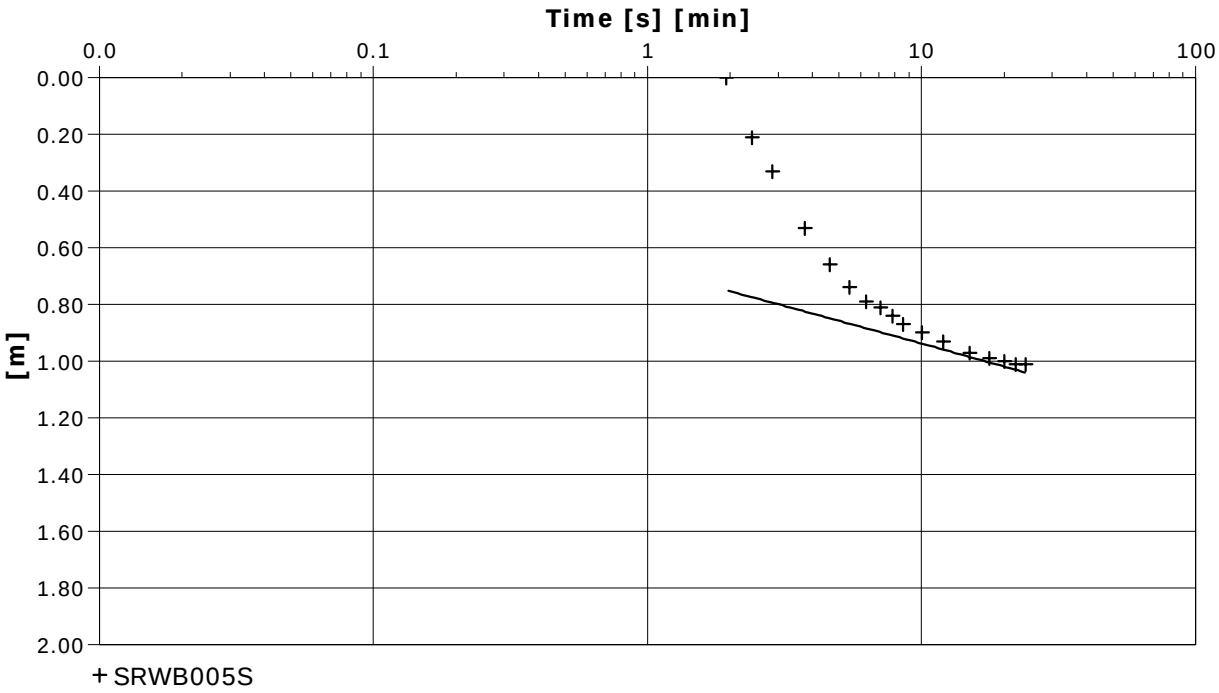
Client: Moly Mines

Location: Spinifex Ridge	Pumping Test: SRWB05S - Airlift Recovery	Pumping well: SRWB005S
Test conducted by:	Test date: 22/04/2007	Discharge: variable, average rate 0.47 [l/s]
Observation well: SRWB005S	Static water level [m]: 3.38	Radial distance to PW [m]: -

	Time [min]	Water Level [m]	Drawdown [m]
1	62	4.47	1.09
2	62.5	4.26	0.88
3	63	4.14	0.76
4	64	3.94	0.56
5	65	3.81	0.43
6	66	3.73	0.35
7	67	3.68	0.30
8	68	3.66	0.28
9	69	3.63	0.25
10	70	3.60	0.22
11	72	3.57	0.19
12	75	3.54	0.16
13	80	3.50	0.12
14	85	3.48	0.10
15	90	3.47	0.09
16	95	3.46	0.08
17	100	3.46	0.08

Moly Mines Limited **Spinifex Ridge Project**	**Pumping Test Analysis Report**	B
	Project: Spinifex Ridge	
	Number: 689D	
	Client: Moly Mines	

Location: Spinifex Ridge	Pumping Test: SRWB05S - Airlift Recovery	Pumping well: SRWB005S
Test conducted by:		Test date: 22/04/2007
Analysis performed by: Aquaterra	Recovery	Date: 22/04/2007
Aquifer Thickness: 12.00 m	Discharge: variable, average rate 0.47 [l/s]	

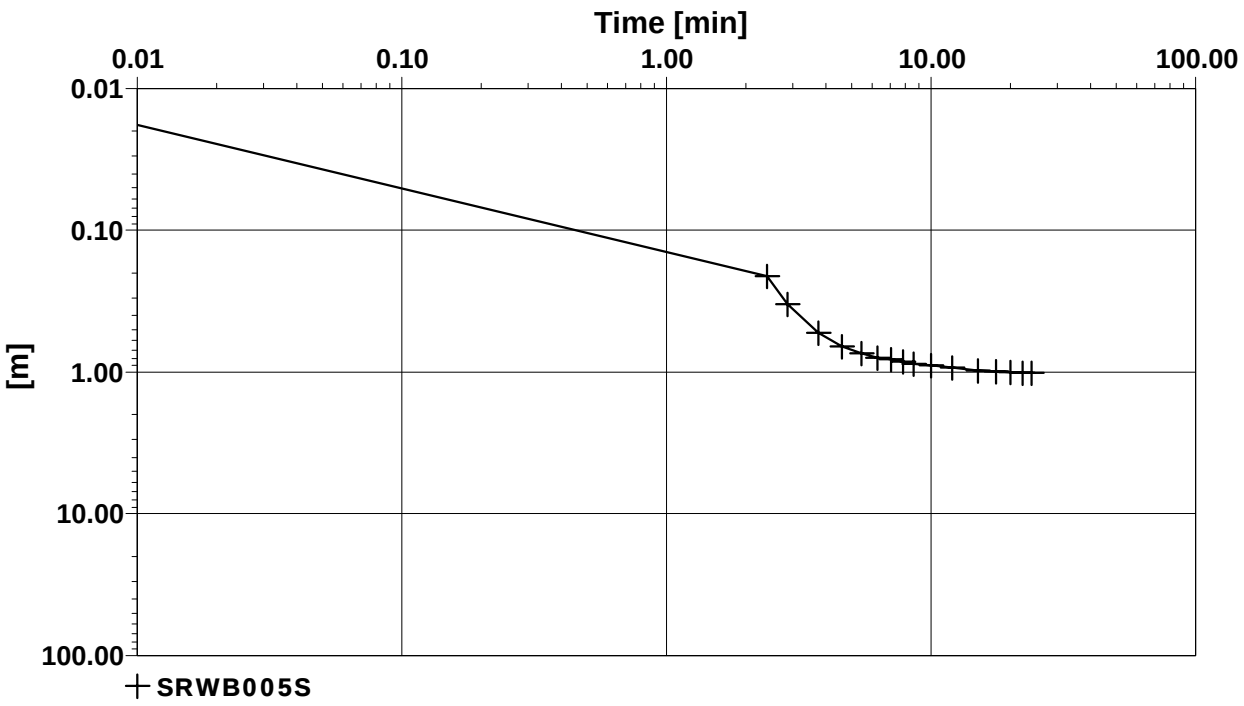


Calculation after AGARWAL + Theis with Jacob Correction

Observation well	Transmissivity [m²/d]	K [m/d]	Storage coefficient	P	Radial distance to PW [m]
SRWB005S	5.98×10^{1}	4.98×10^{0}	3.12×10^{-3}	1.00×10^{2}	0.03

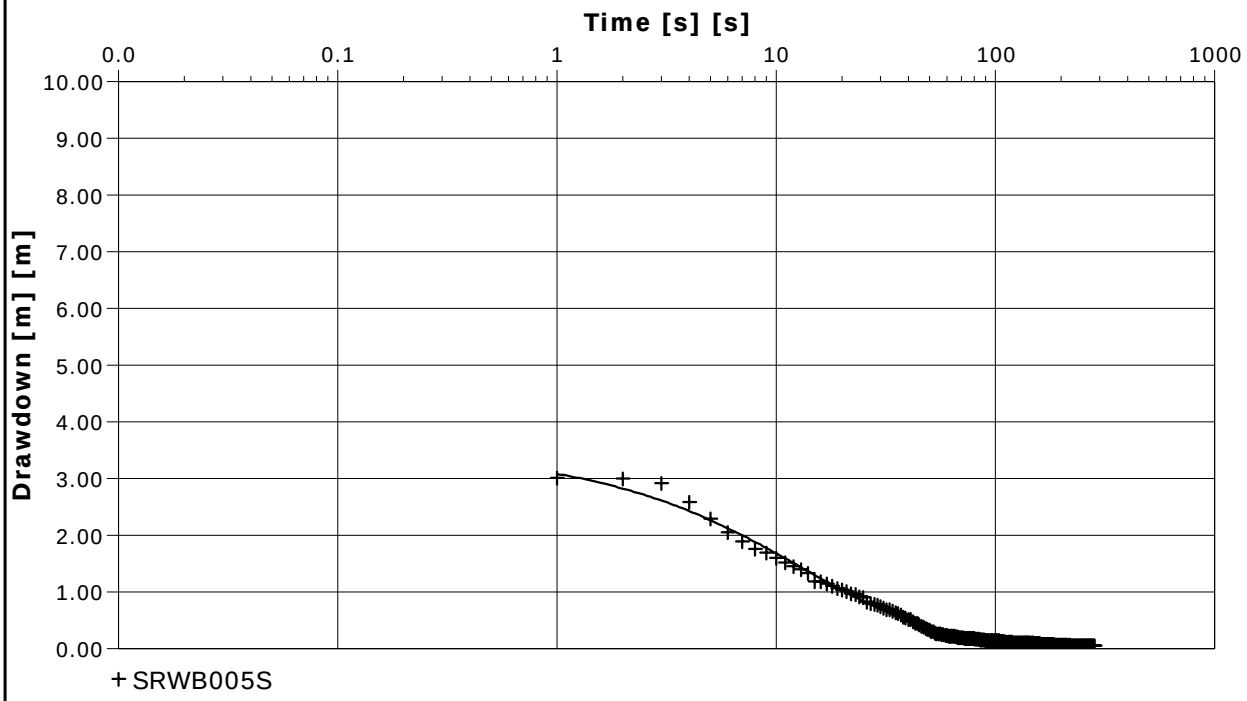
Moly Mines Limited **Spinifex Ridge Project**	**Pumping Test Analysis Report**	B
	Project: Spinifex Ridge	
	Number: 689D	
	Client: Moly Mines	

Location: Spinifex Ridge	Pumping Test: SRWB05S - Airlift Recovery	Pumping well: SRWB005S
Test conducted by:		Test date: 22/04/2007
Analysis performed by: Aquaterra	Time Drawdown	Date: 22/04/2007
Aquifer Thickness: 12.00 m	Discharge: variable, average rate 0.47 [l/s]	



Moly Mines Limited **Spinifex Ridge Project**	**Slug Test Analysis Report**	B
	Project: Spinifex Ridge	
	Number: 689D	
	Client: Moly Mines	

Location: Spinifex Ridge	Slug Test: SRWB05S - Falling Head Test	Test Well: SRWB005S
Test conducted by:		Test date: 22/04/2007
Analysis performed by: Aquaterra	Falling Head Test	Date: 22/04/2007
Aquifer Thickness: 12.00 m		

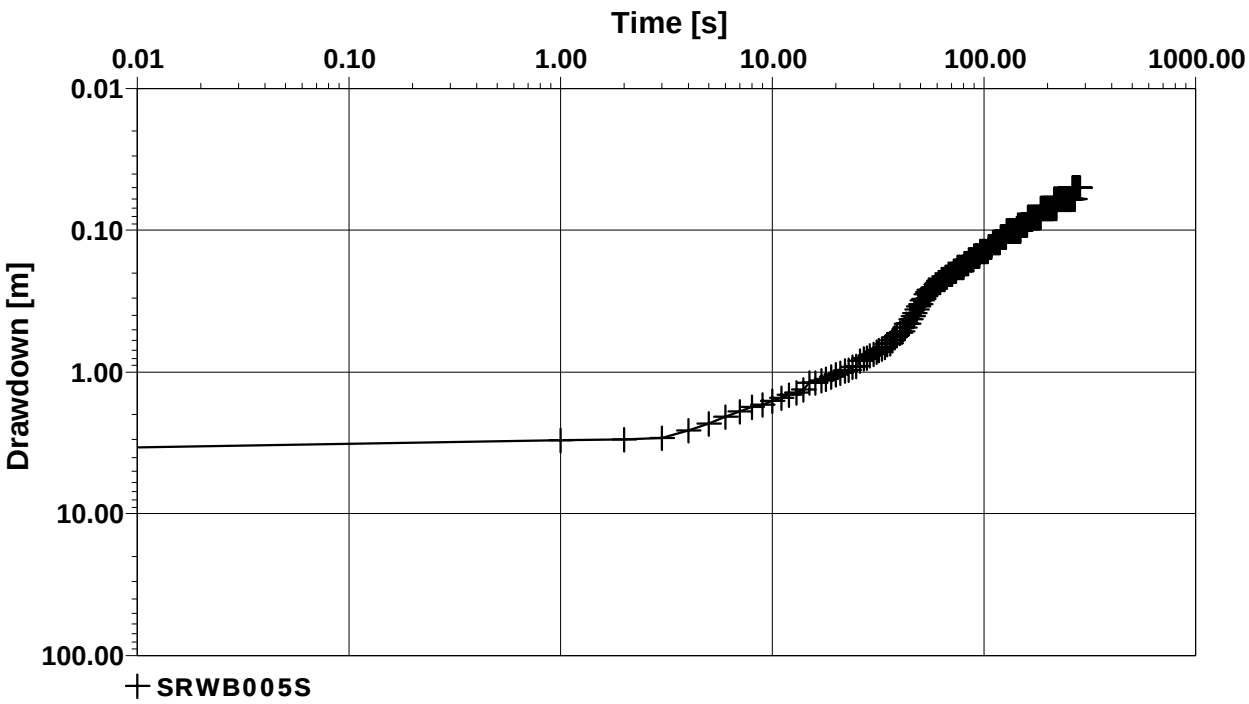


Calculation after Cooper-Bredehoeft-Papadopulos

Observation well	Transmissivity [m²/d]	K [m/d]	Well-bore storage coefficient	
SRWB005S	5.35×10^{0}	4.46×10^{-1}	6.69×10^{-3}	

Moly Mines Limited **Spinifex Ridge Project**	**Slug Test Analysis Report**	B
	Project: Spinifex Ridge	
	Number: 689D	
	Client: Moly Mines	

Location: Spinifex Ridge	Slug Test: SRWB05S - Falling Head Test	Test Well: SRWB005S
Test conducted by:		Test date: 22/04/2007
Analysis performed by: Aquaterra	Time Drawdown	Date: 22/04/2007
Aquifer Thickness: 12.00 m		



Moly Mines Limited
Spinifex Ridge Project

Pumping Test - Water Level Data

Project: Spinifex Ridge

Number: 689D

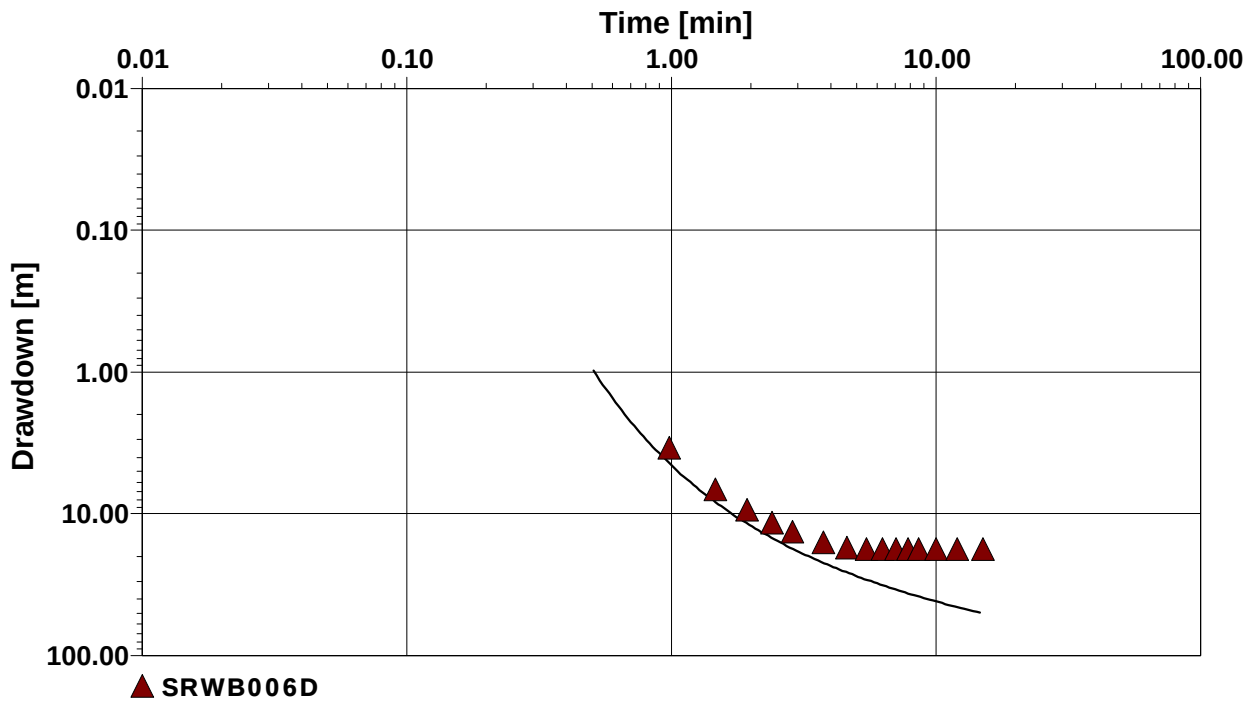
Client: Moly Mines

Location: Spinifex Ridge	Pumping Test: SRWB06D - Airlift Recovery	Pumping well: SRWB006D
Test conducted by:	Test date: 22/04/2007	Discharge: variable, average rate 0.105 [l/s]
Observation well: SRWB006D	Static water level [m]: 2.37	Radial distance to PW [m]: -

	Time [min]	Water Level [m]	Drawdown [m]
1	60.5	20.10	17.73
2	61	16.70	14.33
3	61.5	13.40	11.03
4	62	10.80	8.43
5	62.5	8.60	6.23
6	63	6.82	4.45
7	64	4.18	1.81
8	65	2.89	0.52
9	66	2.46	0.09
10	67	2.39	0.02
11	68	2.38	0.01
12	69	2.38	0.01
13	70	2.38	0.01
14	72	2.38	0.01
15	75	2.37	0.00
16	80	2.37	0.00

Moly Mines Limited Spinifex Ridge Project	Pumping Test Analysis Report	B
	Project: Spinifex Ridge	
	Number: 689D	
	Client: Moly Mines	

Location: Spinifex Ridge	Pumping Test: SRWB06D - Airlift Recovery	Pumping well: SRWB006D
Test conducted by:		Test date: 22/04/2007
Analysis performed by: Aquaterra	Recovery	Date: 22/04/2007
Aquifer Thickness: 16.50 m	Discharge: variable, average rate 0.105 [l/s]	

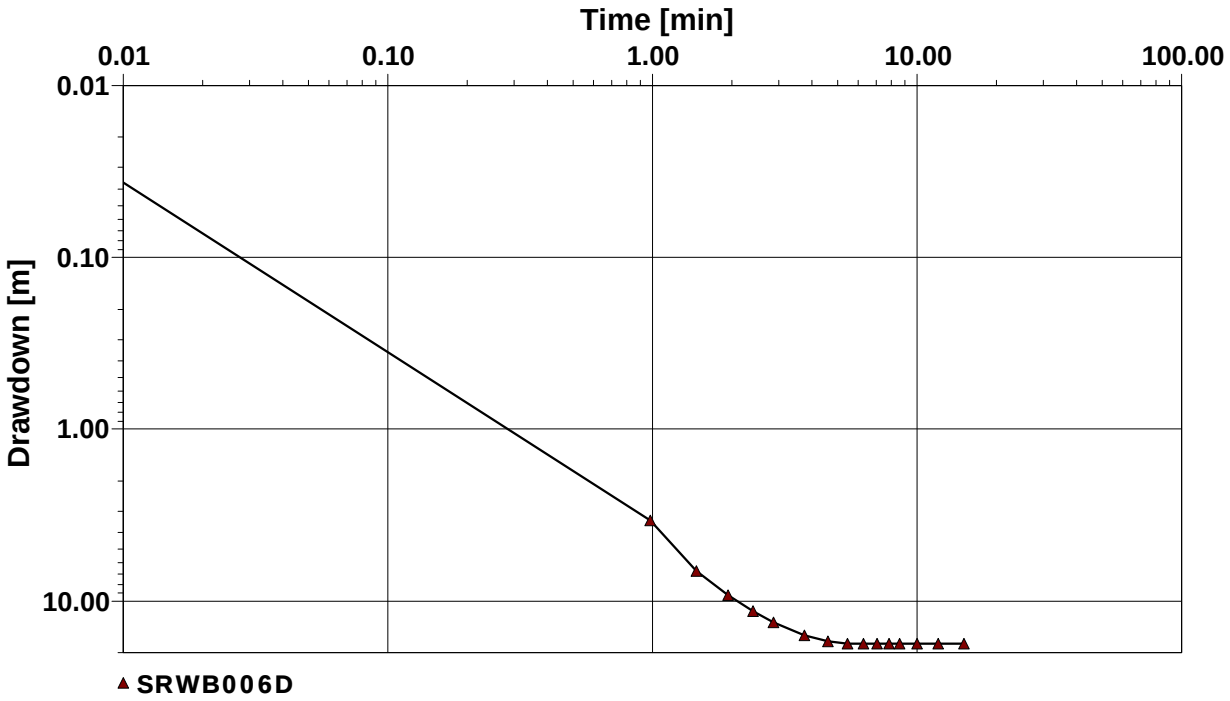


Calculation after AGARWAL + Theis

Observation well	Transmissivity [m²/d]	K [m/d]	Storage coefficient	Radial distance to PW [m]	
SRWB006D	6.12×10^{-2}	3.71×10^{-3}	2.54×10^{-1}	0.03	

Moly Mines Limited **Spinifex Ridge Project**	**Pumping Test Analysis Report**	B
	Project: Spinifex Ridge	
	Number: 689D	
	Client: Moly Mines	

Location: Spinifex Ridge	Pumping Test: SRWB06D - Airlift Recovery	Pumping well: SRWB006D
Test conducted by:		Test date: 22/04/2007
Analysis performed by: Aquaterra	Time Drawdown	Date: 22/04/2007
Aquifer Thickness: 16.50 m	Discharge: variable, average rate 0.105 [l/s]	



Moly Mines Limited
Spinifex Ridge Project

Slug Test - Water Level Data

Project: Spinifex Ridge

Number: 689D

Client: Moly Mines

Location: Spinifex Ridge	Slug Test: SRWB06D - Slug Test	Test Well: SRWB006D
Test conducted by:	Test date: 22/04/2007	
Water level at t=0 [m]: 2.00	Static water level [m]: 2.63	Water level change at t=0 [m]: 0.63

	Time [s]	Water Level [m]	WL Change [m]
1	1	0.808	-1.818
2	2	0.838	-1.788
3	3	0.97	-1.656
4	4	0.98	-1.646
5	5	1.131	-1.495
6	6	1.121	-1.505
7	7	1.879	-0.747
8	8	1.879	-0.747
9	9	1.919	-0.707
10	10	1.929	-0.697
11	11	1.949	-0.677
12	12	1.98	-0.646
13	13	2.01	-0.616
14	14	2.02	-0.606
15	15	2.04	-0.586
16	16	2.061	-0.565
17	17	2.091	-0.535
18	18	2.101	-0.525
19	19	2.121	-0.505
20	20	2.141	-0.485
21	21	2.162	-0.464
22	22	2.182	-0.444
23	23	2.192	-0.434
24	24	2.212	-0.414
25	25	2.222	-0.404
26	26	2.242	-0.384
27	27	2.263	-0.363
28	28	2.273	-0.353
29	29	2.283	-0.343
30	30	2.303	-0.323
31	31	2.303	-0.323
32	32	2.323	-0.303
33	33	2.333	-0.293
34	34	2.343	-0.283
35	35	2.354	-0.272
36	36	2.374	-0.252
37	37	2.384	-0.242
38	38	2.384	-0.242
39	39	2.394	-0.232
40	40	2.414	-0.212
41	41	2.414	-0.212
42	42	2.434	-0.192
43	43	2.434	-0.192
44	44	2.444	-0.182
45	45	2.455	-0.171
46	46	2.465	-0.161
47	47	2.465	-0.161
48	48	2.465	-0.161
49	49	2.485	-0.141
50	50	2.485	-0.141
51	51	2.495	-0.131

Moly Mines Limited
Spinifex Ridge Project

Slug Test - Water Level Data

Project: Spinifex Ridge

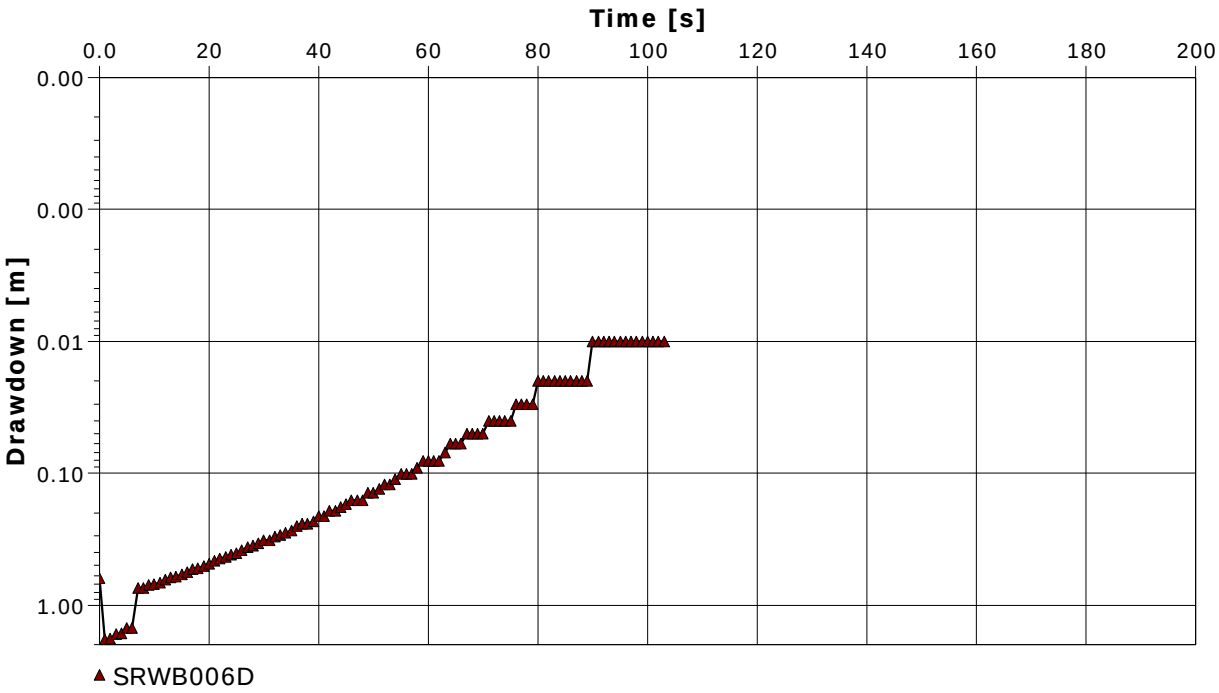
Number: 689D

Client: Moly Mines

	Time [s]	Water Level [m]	WL Change [m]
52	52	2.505	-0.121
53	53	2.505	-0.121
54	54	2.515	-0.111
55	55	2.525	-0.101
56	56	2.525	-0.101
57	57	2.525	-0.101
58	58	2.535	-0.091
59	59	2.545	-0.081
60	60	2.545	-0.081
61	61	2.545	-0.081
62	62	2.545	-0.081
63	63	2.556	-0.07
64	64	2.566	-0.06
65	65	2.566	-0.06
66	66	2.566	-0.06
67	67	2.576	-0.05
68	68	2.576	-0.05
69	69	2.576	-0.05
70	70	2.576	-0.05
71	71	2.586	-0.04
72	72	2.586	-0.04
73	73	2.586	-0.04
74	74	2.586	-0.04
75	75	2.586	-0.04
76	76	2.596	-0.03
77	77	2.596	-0.03
78	78	2.596	-0.03
79	79	2.596	-0.03
80	80	2.606	-0.02
81	81	2.606	-0.02
82	82	2.606	-0.02
83	83	2.606	-0.02
84	84	2.606	-0.02
85	85	2.606	-0.02
86	86	2.606	-0.02
87	87	2.606	-0.02
88	88	2.606	-0.02
89	89	2.606	-0.02
90	90	2.616	-0.01
91	91	2.616	-0.01
92	92	2.616	-0.01
93	93	2.616	-0.01
94	94	2.616	-0.01
95	95	2.616	-0.01
96	96	2.616	-0.01
97	97	2.616	-0.01
98	98	2.616	-0.01
99	99	2.616	-0.01
100	100	2.616	-0.01
101	101	2.616	-0.01
102	102	2.616	-0.01
103	103	2.616	-0.01
104	104	2.626	0.00
105	105	2.626	0.00

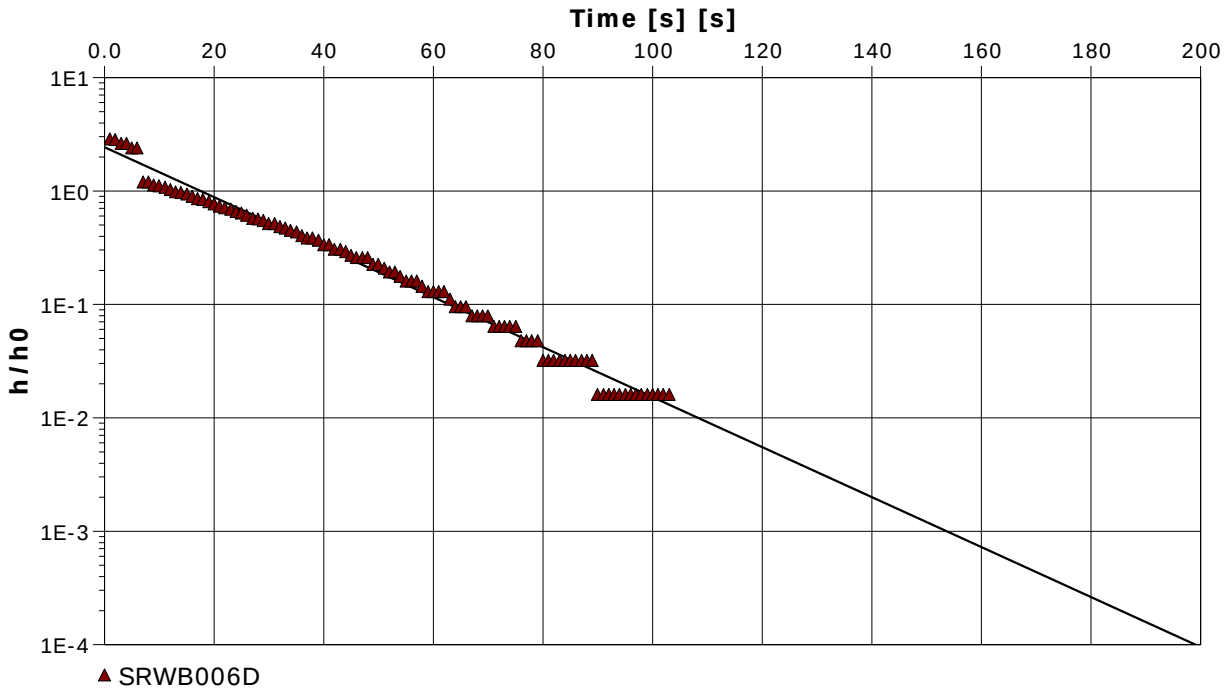
Moly Mines Limited **Spinifex Ridge Project**	**Slug Test Analysis Report**	B
	Project: Spinifex Ridge	
	Number: 689D	
	Client: Moly Mines	

Location: Spinifex Ridge	Slug Test: SRWB06D - Slug Test	Test Well: SRWB006D
Test conducted by:		Test date: 22/04/2007
Analysis performed by: Aquaterra	Time Drawdown	Date: 23/04/2007
Aquifer Thickness: 17.00 m		



Moly Mines Limited **Spinifex Ridge Project**	**Slug Test Analysis Report**	B
	Project: Spinifex Ridge	
	Number: 689D	
	Client: Moly Mines	

Location: Spinifex Ridge	Slug Test: SRWB06D - Slug Test	Test Well: SRWB006D
Test conducted by:		Test date: 22/04/2007
Analysis performed by: Aquaterra	Slug Test	Date: 22/04/2007
Aquifer Thickness: 17.00 m		



Calculation after Hvorslev		
Observation well	K [m/d]	
SRWB006D	7.01×10^{-1}	

Moly Mines Limited
Spinifex Ridge Project

Pumping Test - Water Level Data

Project: Spinifex Ridge

Number: 689D

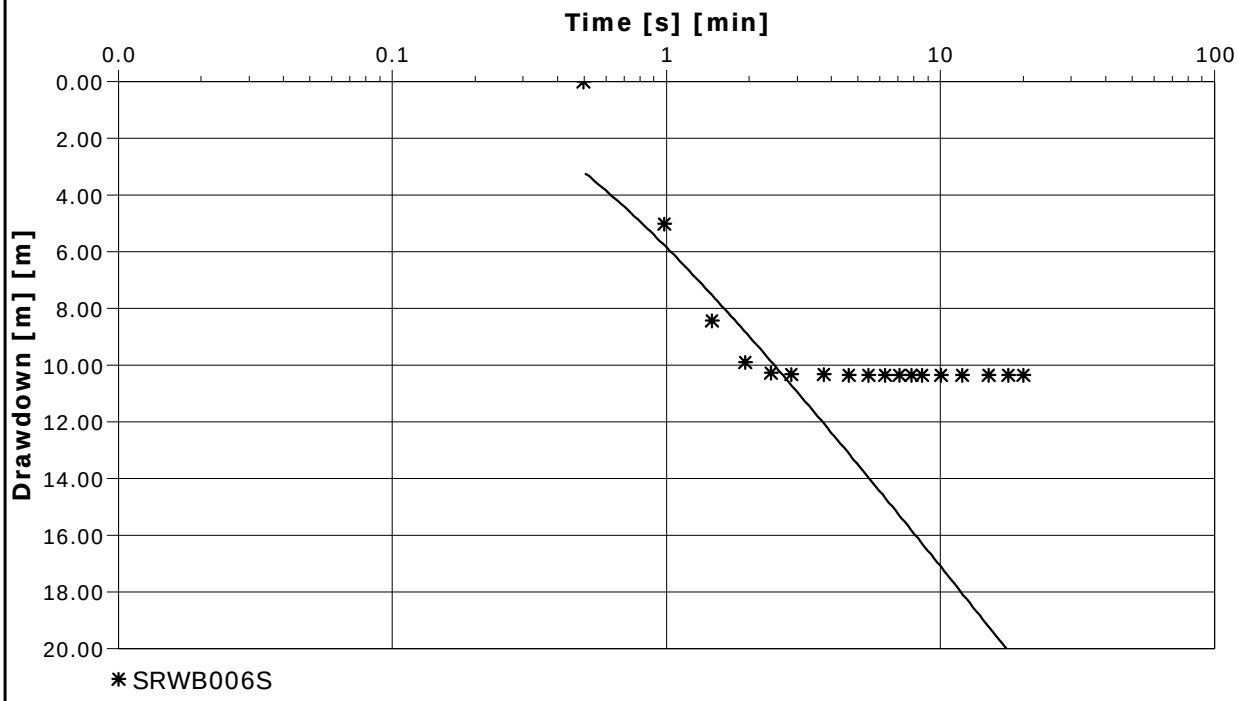
Client: Moly Mines

Location: Spinifex Ridge	Pumping Test: SRWB06S - Airlift Recovery	Pumping well: SRWB006S
Test conducted by:	Test date: 22/04/2007	Discharge: variable, average rate 0.28667 [l/s]
Observation well: SRWB006S	Static water level [m]: 2.36	Radial distance to PW [m]: -

	Time [min]	Water Level [m]	Drawdown [m]
1	60.5	12.82	10.46
2	61	7.80	5.44
3	61.5	4.39	2.03
4	62	2.92	0.56
5	62.5	2.54	0.18
6	63	2.50	0.14
7	64	2.49	0.13
8	65	2.48	0.12
9	66	2.48	0.12
10	67	2.48	0.12
11	68	2.48	0.12
12	69	2.48	0.12
13	70	2.48	0.12
14	72	2.48	0.12
15	75	2.48	0.12
16	80	2.47	0.11
17	85	2.47	0.11
18	90	2.47	0.11

Moly Mines Limited **Spinifex Ridge Project**	**Pumping Test Analysis Report**	B
	Project: Spinifex Ridge	
	Number: 689D	
	Client: Moly Mines	

Location: Spinifex Ridge	Pumping Test: SRWB06S - Airlift Recovery	Pumping well: SRWB006S
Test conducted by:		Test date: 22/04/2007
Analysis performed by: Aquaterra	Recovery	Date: 22/04/2007
Aquifer Thickness: 12.00 m	Discharge: variable, average rate 0.28667 [l/s]	

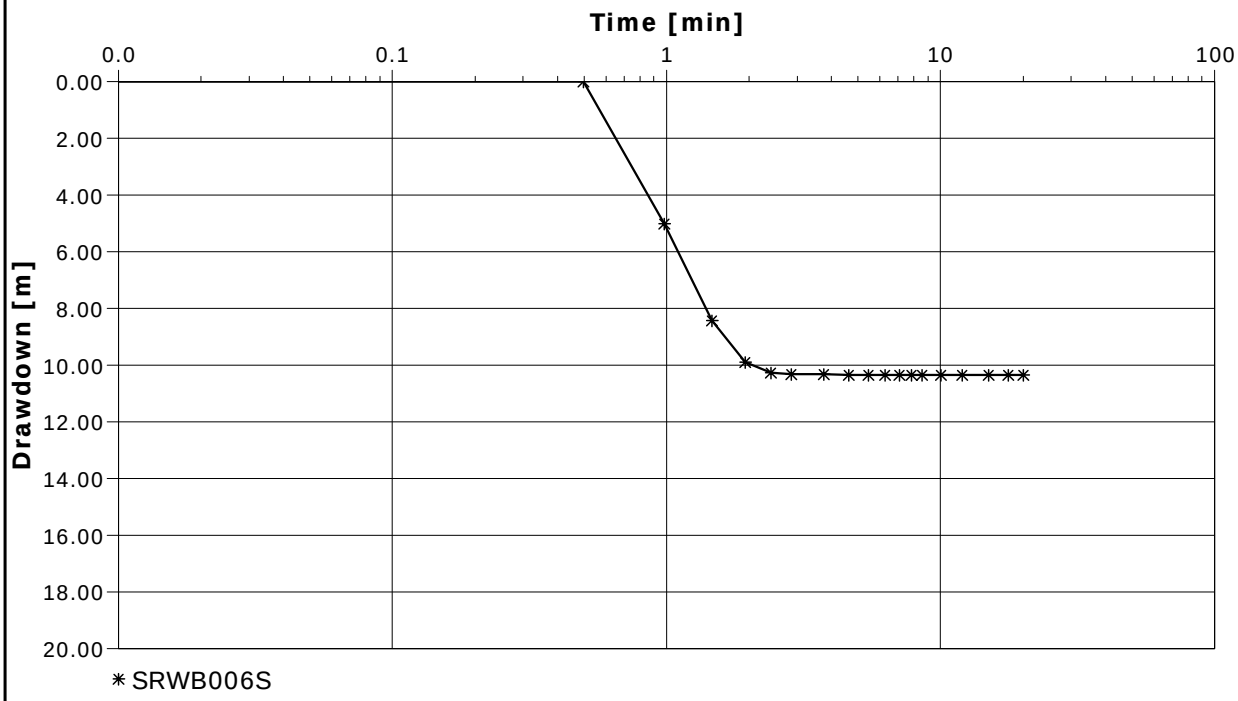


Calculation after AGARWAL + Theis

Observation well	Transmissivity [m²/d]	K [m/d]	Storage coefficient	Radial distance to PW [m]	
SRWB006S	5.53×10^{-1}	4.61×10^{-2}	5.00×10^{-1}	0.03	

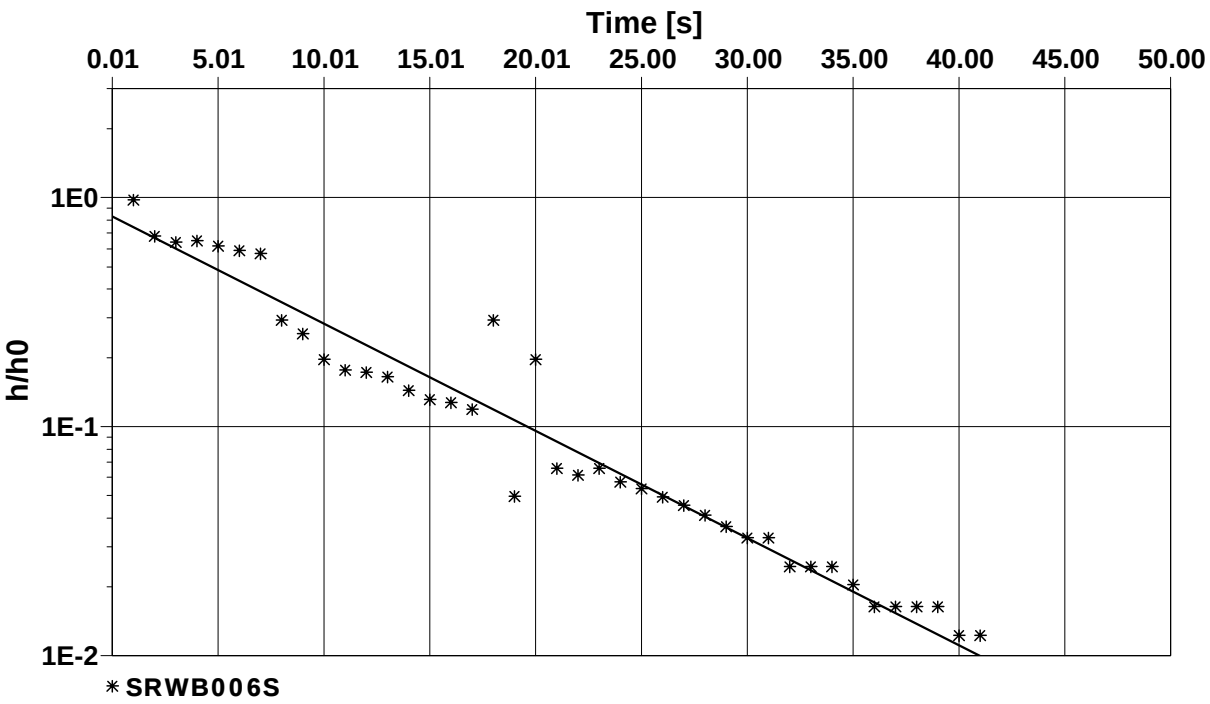
Moly Mines Limited **Spinifex Ridge Project**	**Pumping Test Analysis Report**	B
	Project: Spinifex Ridge	
	Number: 689D	
	Client: Moly Mines	

Location: Spinifex Ridge	Pumping Test: SRWB06S - Airlift Recovery	Pumping well: SRWB006S
Test conducted by:		Test date: 22/04/2007
Analysis performed by: Aquaterra	Time Drawdown	Date: 22/04/2007
Aquifer Thickness: 12.00 m	Discharge: variable, average rate 0.28667 [l/s]	



Moly Mines Limited **Spinifex Ridge Project**	**Slug Test Analysis Report**	B
	Project: Spinifex Ridge	
	Number: 689D	
	Client: Moly Mines	

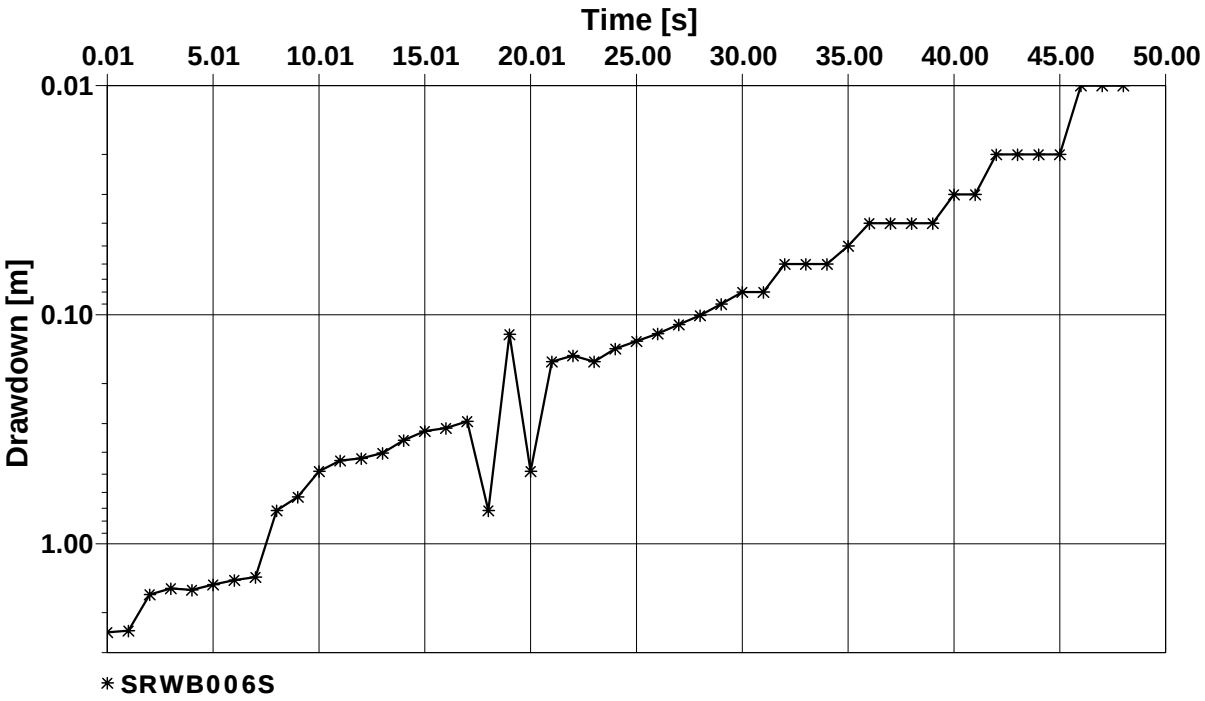
Location: Spinifex Ridge	Slug Test: SRWB06S - Slug Test	Test Well: SRWB006S
Test conducted by:		Test date: 22/04/2007
Analysis performed by: Aquaterra	Slug Test	Date: 22/04/2007
Aquifer Thickness: 12.00 m		



Calculation after Hvorslev		
Observation well	K [m/d]	
SRWB006S	2.64×10^{0}	

Moly Mines Limited **Spinifex Ridge Project**	**Slug Test Analysis Report**	B
	Project: Spinifex Ridge	
	Number: 689D	
	Client: Moly Mines	

Location: Spinifex Ridge	Slug Test: SRWB06S - Slug Test	Test Well: SRWB006S
Test conducted by:		Test date: 22/04/2007
Analysis performed by: Aquaterra	Time Drawdown	Date: 22/04/2007
Aquifer Thickness: 12.00 m		



Moly Mines Limited
Spinifex Ridge Project

Pumping Test - Water Level Data

Project: Spinifex Ridge

Number: 689D

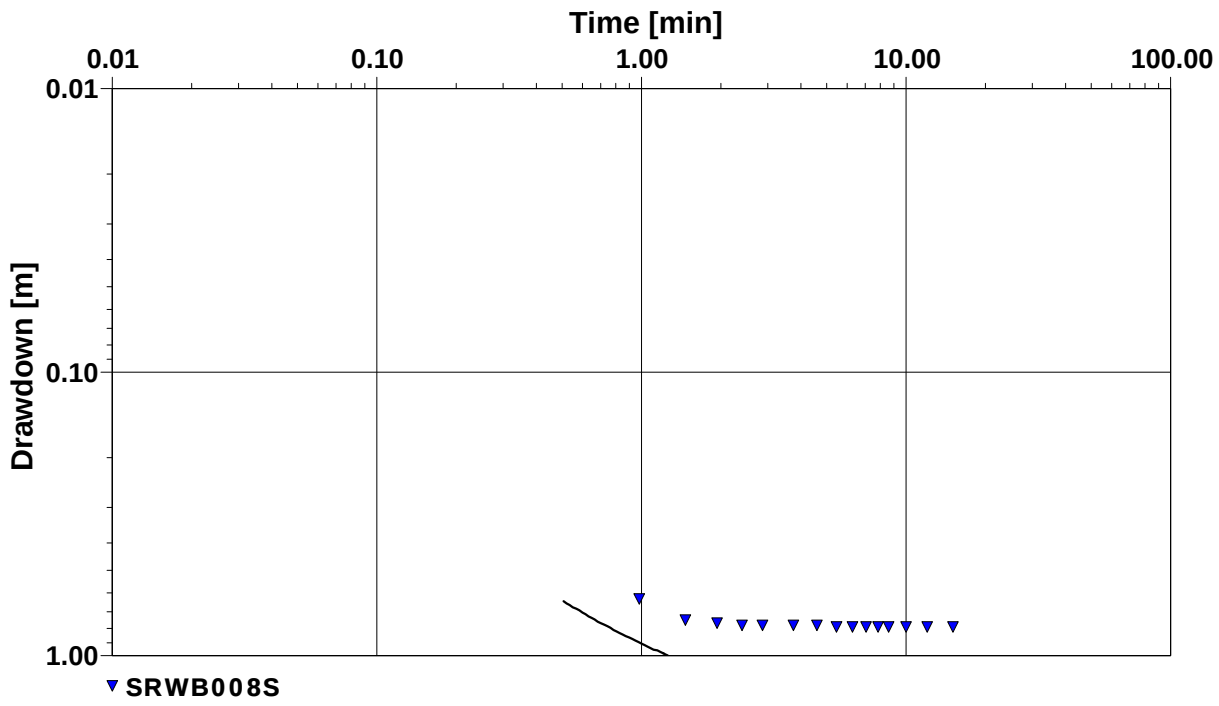
Client: Moly Mines

Location: Spinifex Ridge	Pumping Test: SRWB08S - Airlift Recovery	Pumping well: SRWB008S
Test conducted by:	Test date: 22/04/2007	Discharge: variable, average rate 0.055 [l/s]
Observation well: SRWB008S	Static water level [m]: 5.92	Radial distance to PW [m]: -

	Time [min]	Water Level [m]	Drawdown [m]
1	60.5	6.75	0.83
2	61	6.12	0.20
3	61.5	6.00	0.08
4	62	5.98	0.06
5	62.5	5.97	0.05
6	63	5.97	0.05
7	64	5.97	0.05
8	65	5.97	0.05
9	66	5.96	0.04
10	67	5.96	0.04
11	68	5.96	0.04
12	69	5.96	0.04
13	70	5.96	0.04
14	72	5.96	0.04
15	75	5.96	0.04
16	80	5.96	0.04

Moly Mines Limited **Spinifex Ridge Project**	**Pumping Test Analysis Report**	B
	Project: Spinifex Ridge	
	Number: 689D	
	Client: Moly Mines	

Location: Spinifex Ridge	Pumping Test: SRWB08S - Airlift Recovery	Pumping well: SRWB008S
Test conducted by:		Test date: 22/04/2007
Analysis performed by: Aquaterra	Recovery	Date: 22/04/2007
Aquifer Thickness: 12.00 m	Discharge: variable, average rate 0.055 [l/s]	

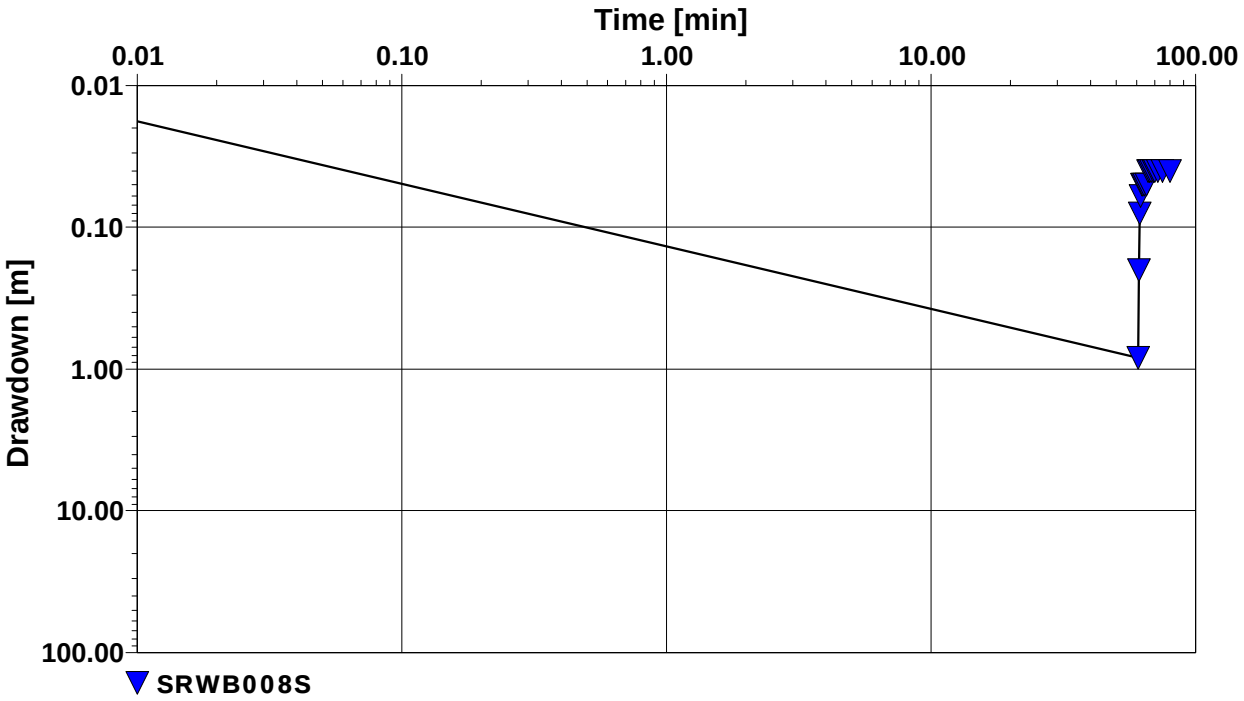


Calculation after AGARWAL + Theis

Observation well	Transmissivity [m²/d]	K [m/d]	Storage coefficient	Radial distance to PW [m]	
SRWB008S	1.75×10^{0}	1.46×10^{-1}	5.00×10^{-1}	0.03	

Moly Mines Limited **Spinifex Ridge Project**	**Pumping Test Analysis Report**	B
	Project: Spinifex Ridge	
	Number: 689D	
	Client: Moly Mines	

Location: Spinifex Ridge	Pumping Test: SRWB08S - Airlift Recovery	Pumping well: SRWB008S
Test conducted by:		Test date: 22/04/2007
Analysis performed by: Aquaterra	Time Drawdown	Date: 22/04/2007
Aquifer Thickness: 12.00 m	Discharge: variable, average rate 0.055 [l/s]	



Moly Mines Limited
Spinifex Ridge Project

Pumping Test - Water Level Data

Project: Spinifex Ridge

Number: 689D

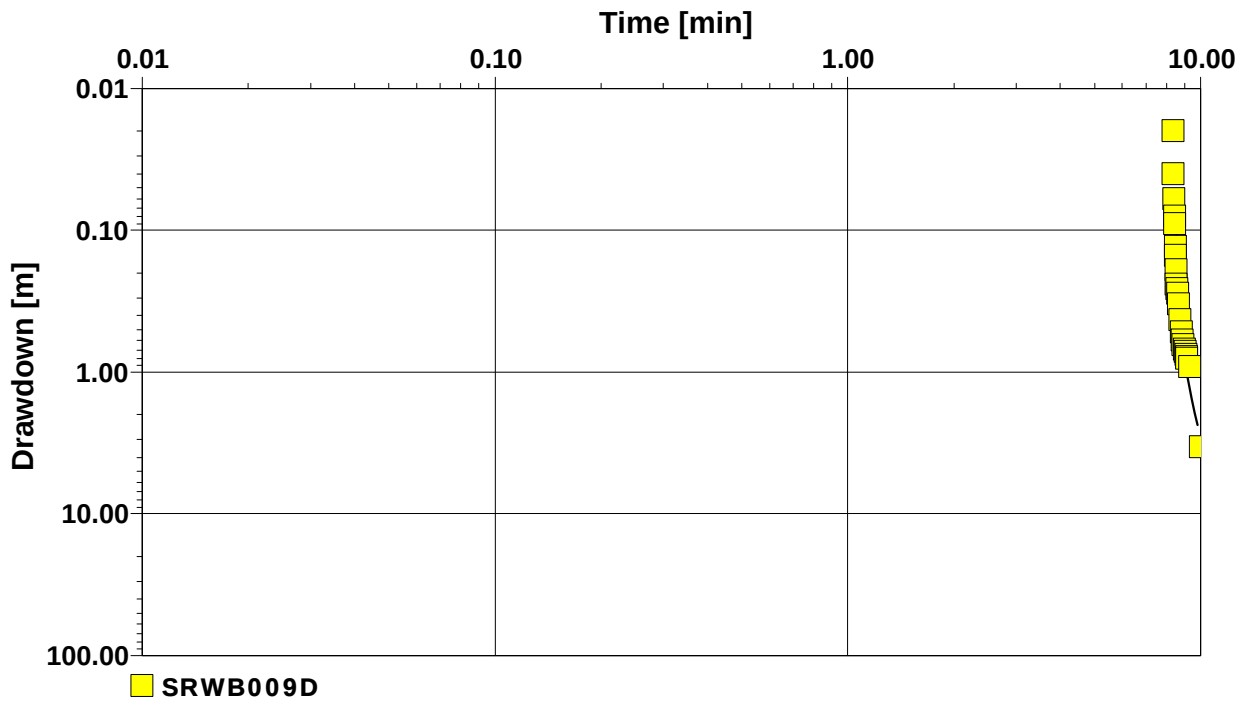
Client: Moly Mines

Location: Spinifex Ridge	Pumping Test: SRWB09D - Airlift Recovery	Pumping well: SRWB009D
Test conducted by:	Test date: 22/04/2007	Discharge: variable, average rate 0.00015 [l/s]
Observation well: SRWB009D	Static water level [m]: 2.49	Radial distance to PW [m]: -

	Time [min]	Water Level [m]	Drawdown [m]
1	61	24.98	22.49
2	61.5	24.96	22.47
3	62	24.94	22.45
4	63	24.92	22.43
5	64	24.90	22.41
6	65	24.89	22.40
7	66	24.85	22.36
8	67	24.83	22.34
9	68	24.79	22.30
10	69	24.74	22.25
11	70	24.72	22.23
12	72	24.70	22.21
13	75	24.65	22.16
14	80	24.55	22.06
15	85	24.46	21.97
16	90	24.38	21.89
17	95	24.34	21.85
18	100	24.29	21.80
19	105	24.26	21.77
20	110	24.23	21.74
21	115	24.20	21.71
22	120	24.18	21.69
23	150	24.06	21.57
24	4320	21.59	19.10

Moly Mines Limited **Spinifex Ridge Project**	**Pumping Test Analysis Report**	B
	Project: Spinifex Ridge	
	Number: 689D	
	Client: Moly Mines	

Location: Spinifex Ridge	Pumping Test: SRWB09D - Airlift Recovery	Pumping well: SRWB009D
Test conducted by:		Test date: 22/04/2007
Analysis performed by: Aquaterra	Recovery	Date: 22/04/2007
Aquifer Thickness:	Discharge: variable, average rate 0.00015 [l/s]	

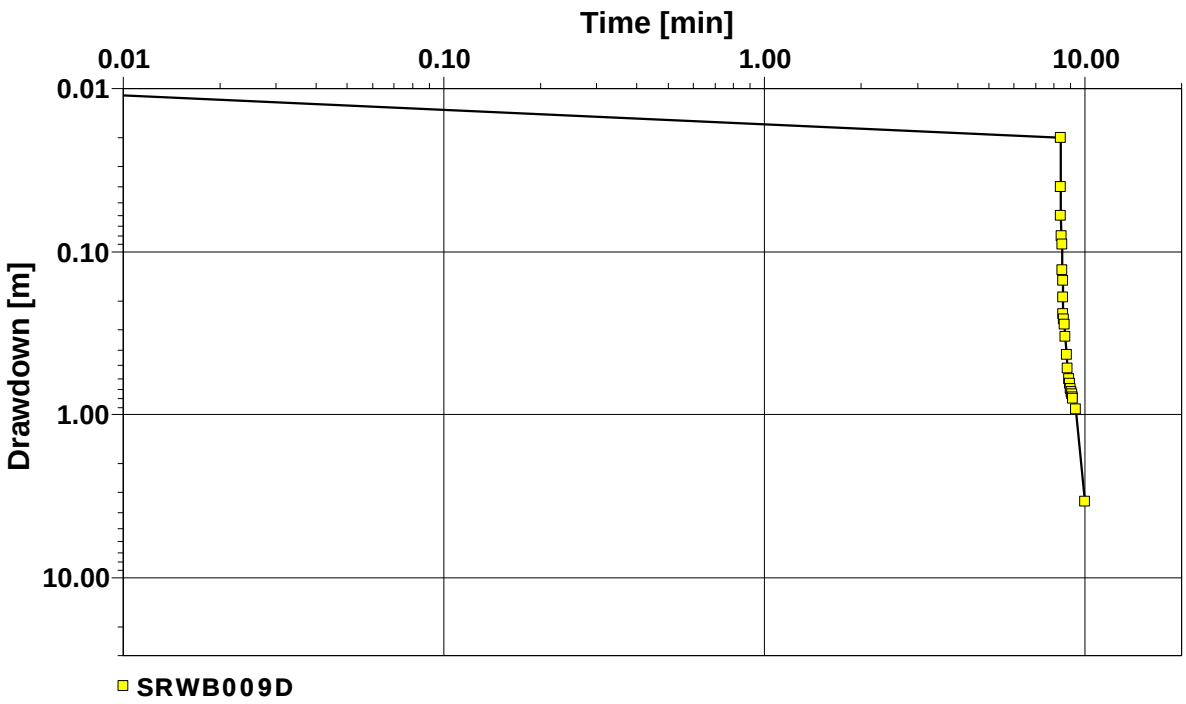


Calculation after AGARWAL + Hantush

Observation well	Transmissivity [m²/d]	Storage coefficient	Hydr. resistance [s]	Radial distance to PW [m]	
SRWB009D	1.32×10^{-5}	9.59×10^{-3}	6.67×10^{9}	0.03	

Moly Mines Limited **Spinifex Ridge Project**	**Pumping Test Analysis Report**	B
	Project: Spinifex Ridge	
	Number: 689D	
	Client: Moly Mines	

Location: Spinifex Ridge	Pumping Test: SRWB09D - Airlift Recovery	Pumping well: SRWB009D
Test conducted by:		Test date: 22/04/2007
Analysis performed by: Aquaterra	Time Drawdown	Date: 22/04/2007
Aquifer Thickness:	Discharge: variable, average rate 0.00015 [l/s]	



Moly Mines Limited
Spinifex Ridge Project

Pumping Test - Water Level Data

Project: Spinifex Ridge

Number: 689D

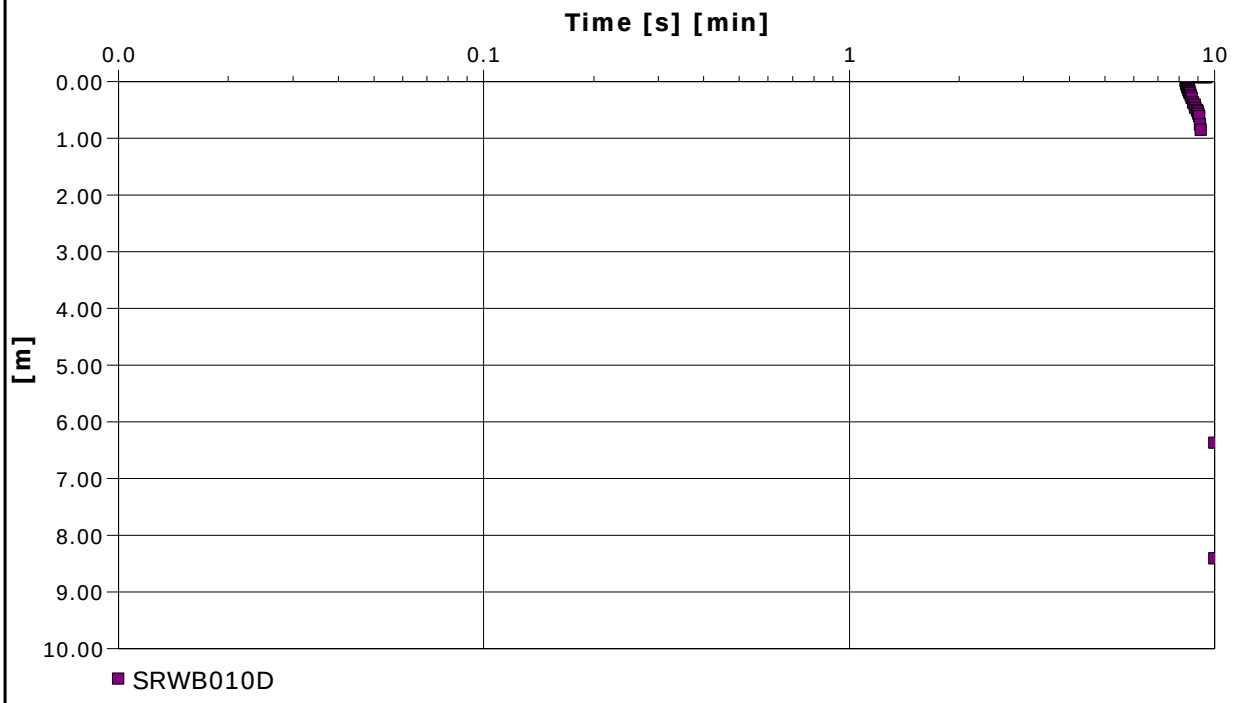
Client: Moly Mines

Location: Spinifex Ridge	Pumping Test: SRWB010D - Airlift Recovery	Pumping well: SRWB010D
Test conducted by:	Test date: 22/04/2007	Discharge: variable, average rate 0.0003 [l/s]
Observation well: SRWB010D	Static water level [m]: 2.75	Radial distance to PW [m]: -

	Time [min]	Water Level [m]	Drawdown [m]
1	61	25.08	22.33
2	61.5	25.06	22.31
3	62	25.03	22.28
4	62.5	25.02	22.27
5	63	25.01	22.26
6	64	24.99	22.24
7	65	24.96	22.21
8	66	24.94	22.19
9	67	24.92	22.17
10	68	24.90	22.15
11	69	24.88	22.13
12	70	24.86	22.11
13	72	24.82	22.07
14	75	24.78	22.03
15	80	24.71	21.96
16	85	24.66	21.91
17	90	24.61	21.86
18	95	24.57	21.82
19	100	24.54	21.79
20	105	24.50	21.75
21	110	24.47	21.72
22	115	24.32	21.57
23	120	24.23	21.48
24	4380	18.71	15.96
25	7260	16.67	13.92

Moly Mines Limited **Spinifex Ridge Project**	**Pumping Test Analysis Report**	B
	Project: Spinifex Ridge	
	Number: 689D	
	Client: Moly Mines	

Location: Spinifex Ridge	Pumping Test: SRWB010D - Airlift Recovery	Pumping well: SRWB010D
Test conducted by:		Test date: 22/04/2007
Analysis performed by: Aquaterra	Recovery	Date: 22/04/2007
Aquifer Thickness: 12.00 m	Discharge: variable, average rate 0.0003 [l/s]	

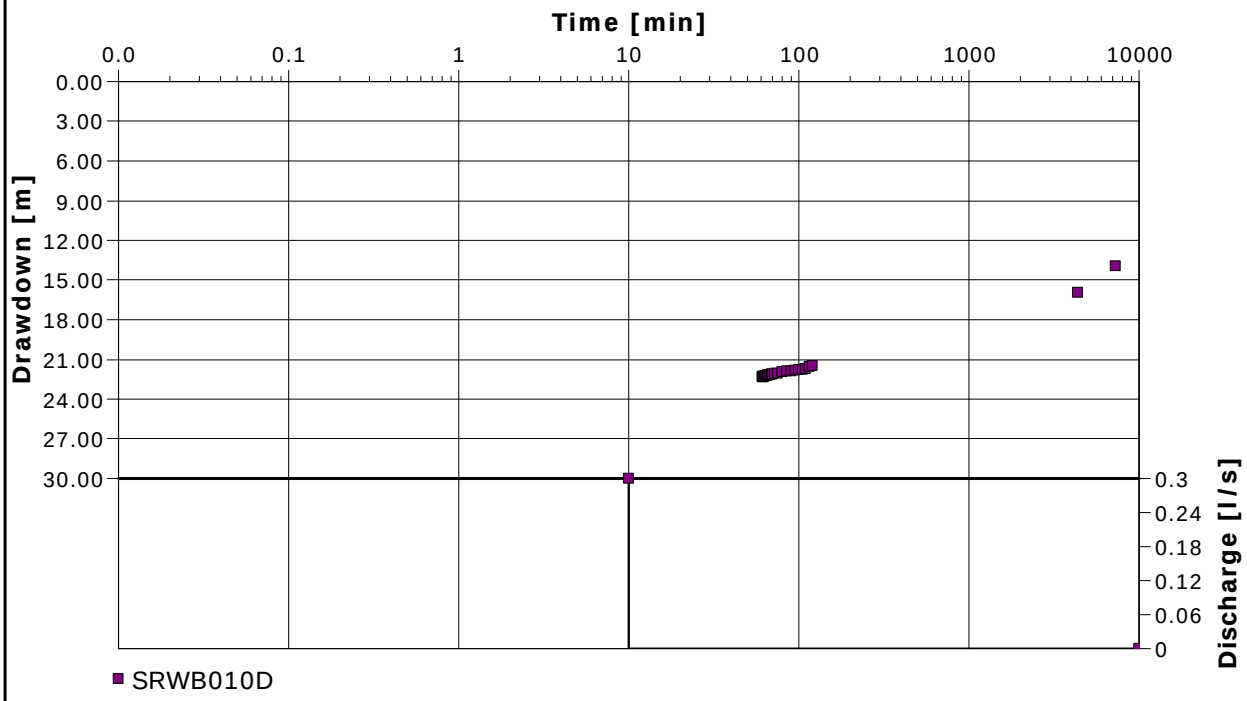


Calculation after AGARWAL + Theis with Jacob Correction

Observation well	Transmissivity [m²/d]	K [m/d]	Storage coefficient	Radial distance to PW [m]	
SRWB010D	1.68×10^{-6}	1.40×10^{-7}	6.47×10^{-4}	0.03	

Moly Mines Limited **Spinifex Ridge Project**	**Pumping Test Analysis Report**	B
	Project: Spinifex Ridge	
	Number: 689D	
	Client: Moly Mines	

Location: Spinifex Ridge	Pumping Test: SRWB010D - Airlift Recovery	Pumping well: SRWB010D
Test conducted by:		Test date: 22/04/2007
Analysis performed by: Aquaterra	Time Drawdown	Date: 22/04/2007
Aquifer Thickness: 12.00 m	Discharge: variable, average rate 0.0003 [l/s]	



Moly Mines Limited
Spinifex Ridge Project

Pumping Test - Water Level Data

Project: Spinifex Ridge

Number: 689D

Client: Moly Mines

Location: Spinifex Ridge	Pumping Test: SRWB010S - Airlift Recovery	Pumping well: SRWB010S
Test conducted by:	Test date: 22/04/2007	Discharge: variable, average rate 0.165 [l/s]
Observation well: SRWB010S	Static water level [m]: 2.87	Radial distance to PW [m]: -

	Time [s]	Water Level [m]	Drawdown [m]
1	67	8.142	5.272
2	68	7.647	4.777
3	69	7.324	4.454
4	70	7.021	4.151
5	71	6.819	3.949
6	72	6.587	3.717
7	73	6.395	3.525
8	74	6.132	3.262
9	75	5.92	3.05
10	76	5.698	2.828
11	77	5.476	2.606
12	78	5.274	2.404
13	79	5.061	2.191
14	80	4.94	2.07
15	81	4.698	1.828
16	82	4.516	1.646
17	83	4.405	1.535
18	84	4.203	1.333
19	85	4.102	1.232
20	86	3.93	1.06
21	87	3.839	0.969
22	88	3.748	0.878
23	89	3.647	0.777
24	90	3.556	0.686
25	91	3.516	0.646
26	92	3.405	0.535
27	93	3.385	0.515
28	94	3.324	0.454
29	95	3.264	0.394
30	96	3.213	0.343
31	97	3.193	0.323
32	98	3.162	0.292
33	99	3.132	0.262
34	100	3.122	0.252
35	101	3.092	0.222
36	102	3.072	0.202
37	103	3.082	0.212
38	104	3.041	0.171
39	105	3.021	0.151
40	106	3.001	0.131
41	107	2.991	0.121
42	108	2.981	0.111
43	109	2.96	0.09
44	110	2.96	0.09
45	111	2.94	0.07
46	112	2.94	0.07
47	113	2.93	0.06
48	114	2.92	0.05
49	115	2.92	0.05
50	116	2.91	0.04
51	117	2.91	0.04

Moly Mines Limited
Spinifex Ridge Project

Pumping Test - Water Level Data

Project: Spinifex Ridge

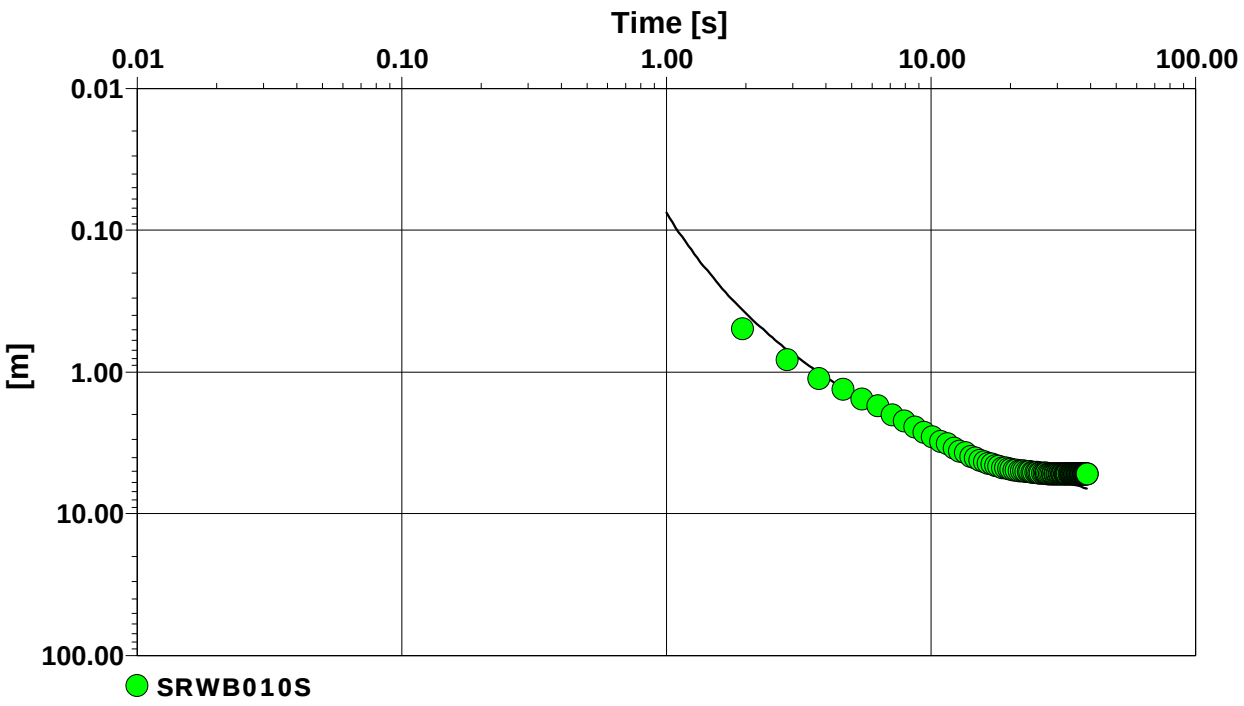
Number: 689D

Client: Moly Mines

	Time [s]	Water Level [m]	Drawdown [m]
52	118	2.90	0.03
53	119	2.90	0.03
54	120	2.90	0.03
55	121	2.89	0.02
56	122	2.88	0.01
57	123	2.88	0.01
58	124	2.88	0.01
59	125	2.88	0.01
60	126	2.88	0.01
61	127	2.88	0.01
62	128	2.88	0.01
63	129	2.88	0.01
64	130	2.88	0.01
65	131	2.88	0.01
66	132	2.88	0.01
67	133	2.87	0.00
68	134	2.88	0.01
69	135	2.88	0.01
70	136	2.88	0.01
71	137	2.87	0.00
72	138	2.87	0.00
73	139	2.87	0.00
74	140	2.88	0.01
75	141	2.88	0.01
76	142	2.87	0.00
77	143	2.87	0.00
78	144	2.87	0.00
79	145	2.87	0.00
80	146	2.87	0.00
81	147	2.87	0.00
82	148	2.87	0.00
83	149	2.87	0.00
84	150	2.87	0.00
85	151	2.87	0.00
86	152	2.87	0.00
87	153	2.87	0.00
88	154	2.87	0.00
89	155	2.87	0.00
90	156	2.87	0.00
91	157	2.87	0.00
92	158	2.87	0.00
93	159	2.87	0.00
94	160	2.87	0.00
95	161	2.87	0.00
96	162	2.87	0.00

Moly Mines Limited Spinifex Ridge Project	**Pumping Test Analysis Report** B
	Project: Spinifex Ridge
	Number: 689D
	Client: Moly Mines

Location: Spinifex Ridge	Pumping Test: SRWB010S - Airlift Recovery	Pumping well: SRWB010S
Test conducted by:		Test date: 22/04/2007
Analysis performed by: Aquaterra	Recovery	Date: 22/04/2007
Aquifer Thickness: 12.50 m	Discharge: variable, average rate 0.165 [l/s]	

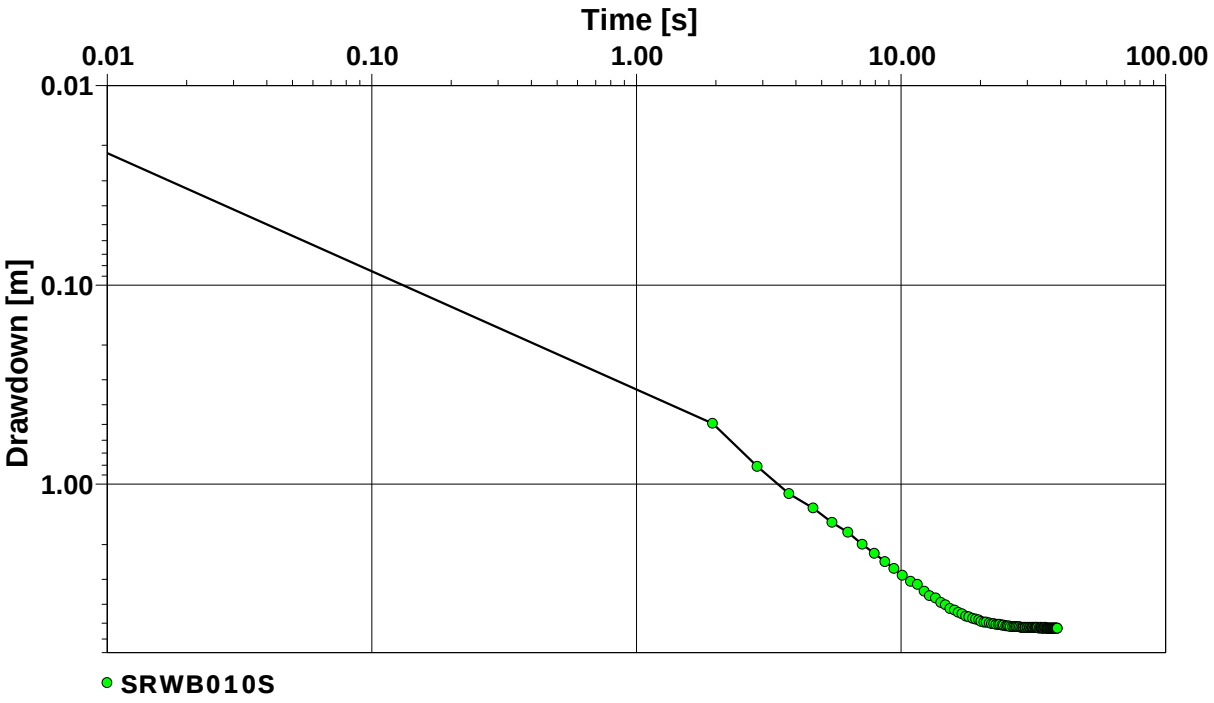


Calculation after AGARWAL + Theis with Jacob Correction

Observation well	Transmissivity [m²/d]	K [m/d]	Storage coefficient	P	Radial distance to PW [m]
SRWB010S	1.65×10^{0}	1.32×10^{-1}	6.56×10^{-2}	1.00×10^{2}	0.05

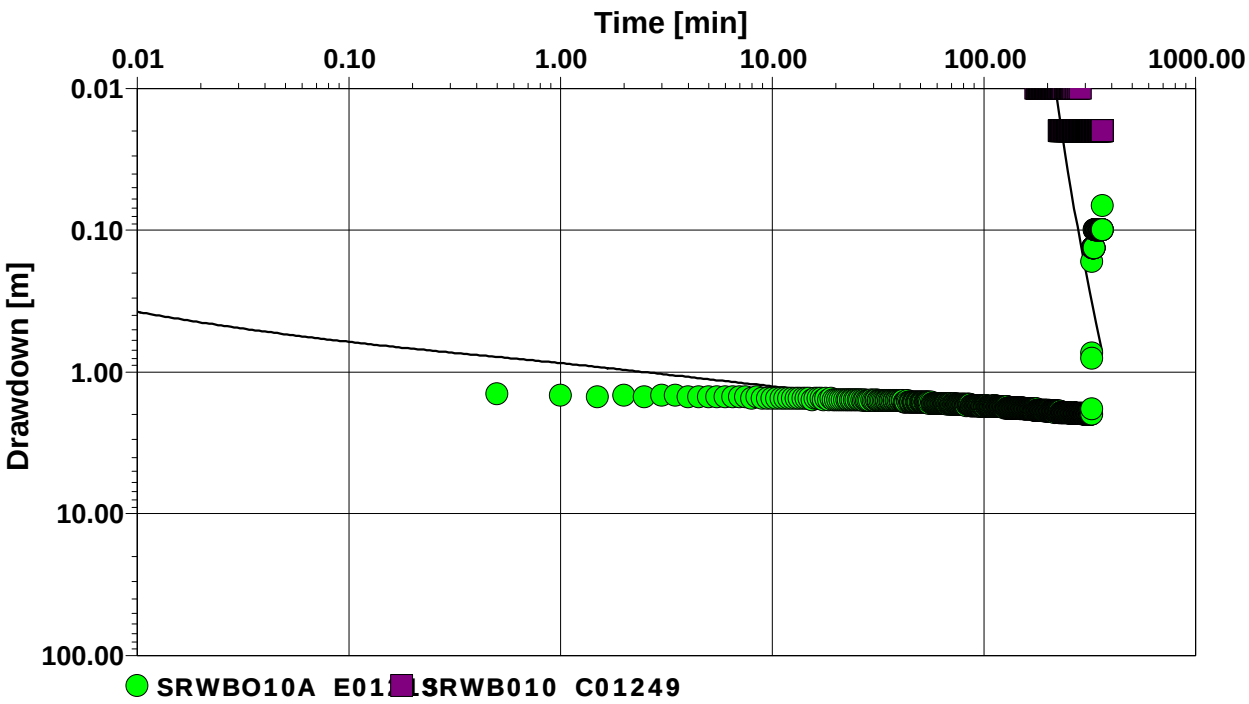
Moly Mines Limited **Spinifex Ridge Project**	**Pumping Test Analysis Report**	B
	Project: Spinifex Ridge	
	Number: 689D	
	Client: Moly Mines	

Location: Spinifex Ridge	Pumping Test: SRWB010S - Airlift Recovery	Pumping well: SRWB010S
Test conducted by:		Test date: 22/04/2007
Analysis performed by: Aquaterra	Time Drawdown	Date: 22/04/2007
Aquifer Thickness: 12.50 m	Discharge: variable, average rate 0.165 [l/s]	



Moly Mines Limited **Spinifex Ridge Project**	**Pumping Test Analysis Report**	B
	Project: Spinifex Ridge	
	Number: 689	
	Client: Moly Mines	

Location: Spinifex Ridge	Pumping Test: SRWB010	Pumping well: SRWBO10A E01213
Test conducted by: Moly Mines/Aquaterra		Test date: 4/04/2007
Analysis performed by: Aquaterra	SRWB010S - Cooper Jacob	Date: 4/04/2007
Aquifer Thickness: 20.00 m	Discharge: variable, average rate 1.9275 [l/s]	

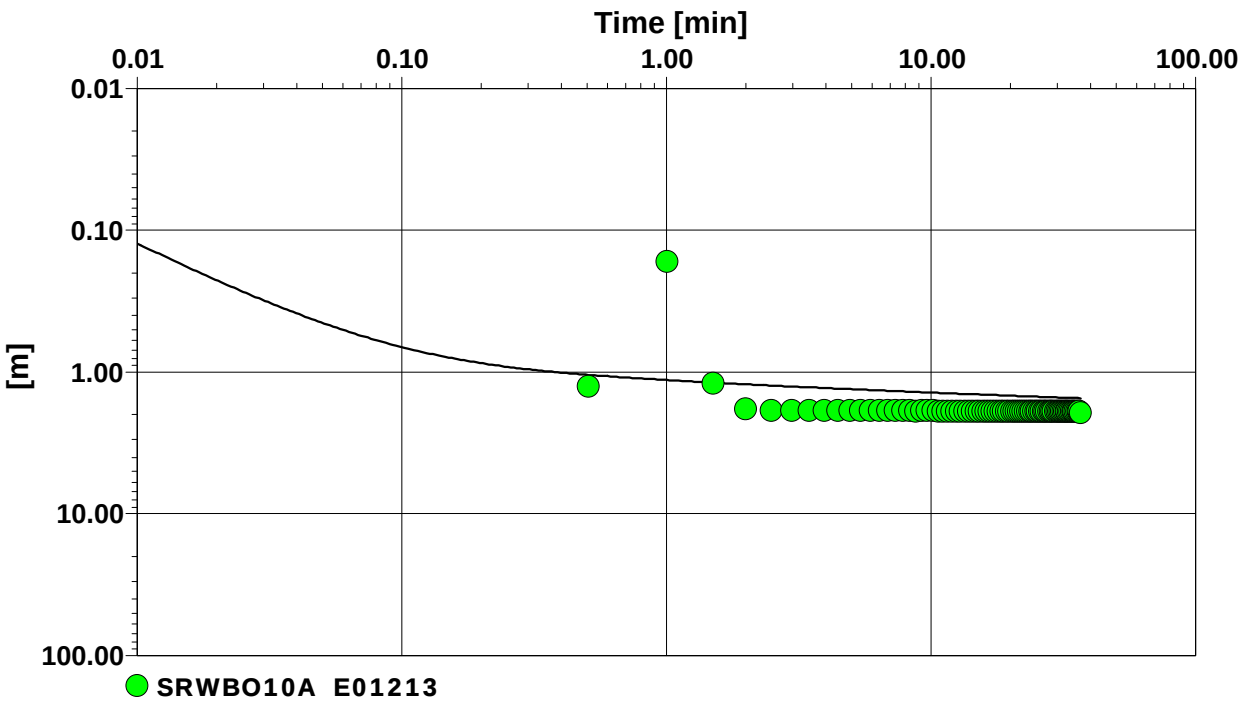


Calculation after Theis with Jacob Correction

Observation well	Transmissivity [m²/d]	K [m/d]	Storage coefficient	P	Radial distance to PW [m]
SRWBO10A E01213	1.32×10^{2}	6.60×10^{0}	1.69×10^{-2}	1.00×10^{2}	0.06
SRWB010 C01249	9.87×10^{-3}	4.93×10^{-4}	1.95×10^{-3}	1.00×10^{2}	5.39
Average	6.60×10^{1}	3.30×10^{0}	9.45×10^{-3}	1.00×10^{2}	

Moly Mines Limited **Spinifex Ridge Project**	**Pumping Test Analysis Report**	
	Project: Spinifex Ridge	
	Number: 689	
	Client: Moly Mines	

Location: Spinifex Ridge	Pumping Test: SRWB010	Pumping well: SRWBO10A E01213
Test conducted by: Moly Mines/Aquaterra		Test date: 4/04/2007
Analysis performed by:	SRWB010S - Recovery	Date: 5/04/2007
Aquifer Thickness: 20.00 m	Discharge: variable, average rate 1.9275 [l/s]	

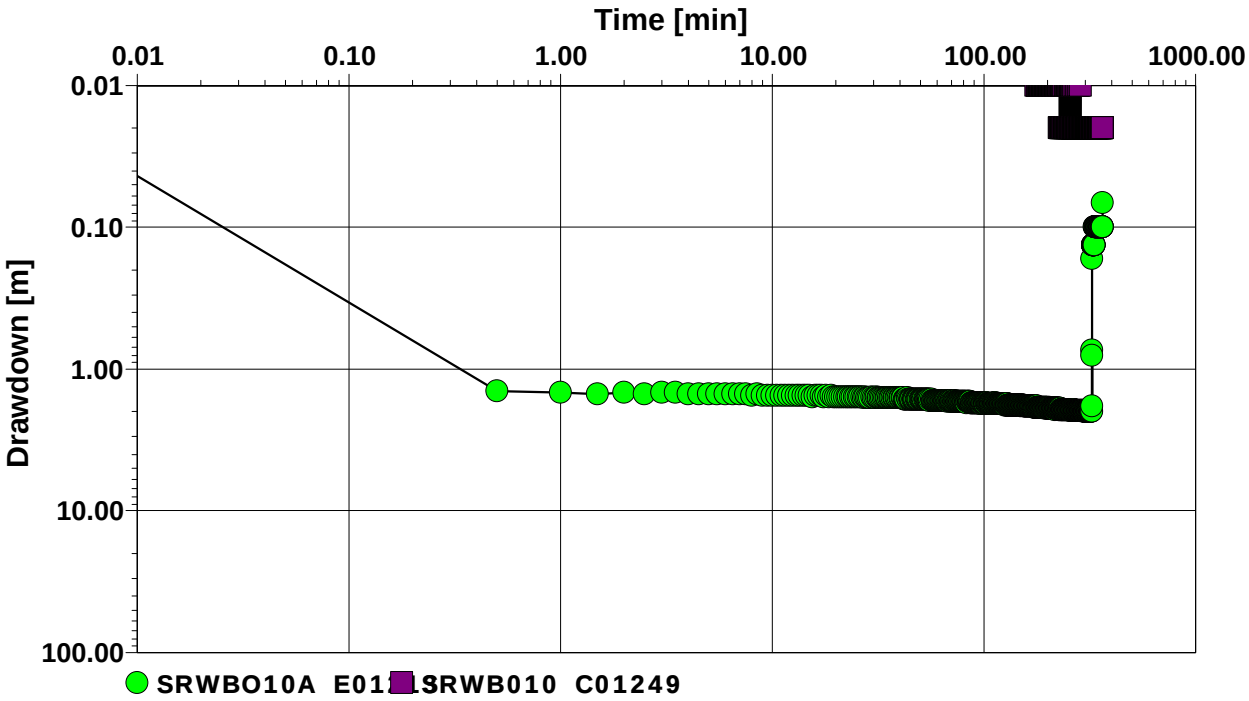


Calculation after AGARWAL + Papadopulos & Cooper

Observation well	Transmissivity [m²/d]	K [m/d]	Well-bore storage coeffic	Radial distance to PW [m]	
SRWBO10A E01213	1.47×10^{2}	7.34×10^{0}	1.13×10^{-3}	0.06	

Moly Mines Limited **Spinifex Ridge Project**	**Pumping Test Analysis Report**	B
	Project: Spinifex Ridge	
	Number: 689	
	Client: Moly Mines	

Location: Spinifex Ridge	Pumping Test: SRWB010	Pumping well: SRWBO10A E01213
Test conducted by: Moly Mines/Aquaterra		Test date: 4/04/2007
Analysis performed by: Aquaterra	Drawdown Time	Date: 20/04/2007
Aquifer Thickness: 20.00 m	Discharge: variable, average rate 1.9275 [l/s]	



APPENDIX C

LABORATORY ANALYSIS

Bore ID		004A (S)	004 (D)	005A (S)	005 (D)	006A (S)	006 (D)	007 (S)	
Date Sampled		01/01/07	01/01/07	01/01/07	01/01/07	01/01/07	01/01/07	01/01/07	**Drinking Water**
Analyte Description	**Units**								**Guideline Values[1]**
pH	pH Units	8.1	8.2	8.3	8.2	8.3	8.2	8.4	6.5-8.5**
Conductivity @25°C	µS/cm	1200	1700	1300	1400	1800	1700	1800	1000
Total Dissolved Solids (Calculated)	mg/L	700	1000	760	850	1100	1000	1100	500**
Sodium, Na	mg/L	120	240	190	210	260	320	290	180**
Potassium, K	mg/L	1.6	4.7	2	3	2.9	8.5	2.9	-
Calcium, Ca	mg/L	45	54	45	46	48	52	36	-
Magnesium, Mg	mg/L	66	53	41	43	54	47	45	-
Iron, Fe	mg/L	0.56	0.24	0.24	0.72	0.16	0.2	0.37	0.3
Chloride, Cl	mg/L	100	260	160	200	260	280	250	250**
Sulphate, SO_4	mg/L	42	83	54	58	71	97	70	250**
Nitrate, NO_3	mg/L	8.6	<0.2	0.96	<0.2	4.3	0.6	<0.2	50
Bicarbonate, HCO_3	mg/L	550	510	470	480	570	460	600	-
Carbonate, CO_3	mg/L								-
Fluoride, F	mg/L	0.8	0.8	1.3	1.3	1.6	1.8	2.1	1.5
Hardness (as $CaCO_3$)	mg/L	380	360	280	290	340	320	270	200
Manganese, Mn	mg/L	0.093	0.081	0.041	0.28	0.07	0.12	0.052	0.1**
Aluminium, Al	mg/L	0.39	0.16	0.2	0.03	0.12	0.13	0.31	0.2
Lead, Pb	mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.01
Arsenic, As	mg/L	0.033	0.031	0.032	0.006	0.035	0.11	0.037	0.007
Cadmium, Cd	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.002
Free Cyanide	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.08
Nitrite, NO_2	mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	3
Silver, Ag	mg/L	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	0.1
Barium, Ba	mg/L	0.03	0.062	0.019	0.044	0.065	0.072	0.018	0.7
Selenium, Se	mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.01
Mercury, Hg	mg/L	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.001
Boron, B	mg/L	0.3	0.4	0.3	0.3	0.4	0.8	0.5	4
Molybdenum, Mo	mg/L	0.04	0.13	0.15	0.08	0.17	0.05	0.22	0.05
Nickel,Ni	mg/L	0.01	0.006	0.005	<0.005	0.006	0.006	0.005	0.02
Copper, Cu	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	2
Zinc, Zn	mg/L	0.03	0.12	0.03	0.06	0.04	0.04	0.03	3
Hexavalent Chromium	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.05
Ammonia Nitrogen NH_3-N	mg/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.5
Antimony, Sb	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.003
Bromide, Br	mg/L	0.5	0.7	0.8	0.5	0.8	1.1	0.9	-
Hydrogen Sulphide,H_2S	mg/L	1.6	1.6	1.0	1.0	1.6	1.6	1.3	0.05
Sediment	n/a	none	slight	none	none	none	none	none	
Odour	n/a	none	none	none	none	none	none	none	
Colour	n/a	none	none	none	none	none	none	none	
Turbidity	n/a	none	slight	none	none	none	none	none	

1. Australia Drinking Water Guidelines,2004

** Aesthetic Guideline Value

Bore ID		008B (S)	009A (S)	009 (D)	010A (S)	010 (D)	
Date Sampled		02/01/07	02/01/07	02/01/07	02/01/07	02/01/07	**Drinking Water**
Analyte Description	**Units**						**Guideline Values[1]**
pH	pH Units	8.3	8.3	8.3	8.3	8.4	6.5-8.5**
Conductivity @25°C	µS/cm	2000	2100	2100	1900	2000	1000
Total Dissolved Solids (Calculated)	mg/L	1200	1300	1300	1100	1200	500**
Sodium, Na	mg/L	280	340	340	310	350	180**
Potassium, K	mg/L	3.7	5.6	9.8	4.6	12	-
Calcium, Ca	mg/L	49	49	51	39	39	-
Magnesium, Mg	mg/L	75	65	57	54	37	-
Iron, Fe	mg/L	0.19	0.04	0.68	0.04	0.37	0.3
Chloride, Cl	mg/L	300	330	350	260	310	250**
Sulphate, SO_4	mg/L	110	120	150	89	130	250**
Nitrate, NO_3	mg/L	<0.2	<0.2	<0.2	0.6	<0.2	50
Bicarbonate, HCO_3	mg/L	610	610	540	600	540	-
Carbonate, CO_3	mg/L						-
Fluoride, F	mg/L	1.3	1.4	1.4	2	1.7	1.5
Hardness (as $CaCO_3$)	mg/L	430	390	360	320	250	200
Manganese, Mn	mg/L	0.013	0.006	0.13	<0.005	0.24	0.1**
Aluminium, Al	mg/L	0.11	0.03	0.42	0.04	0.26	0.2
Lead, Pb	mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	0.01
Arsenic, As	mg/L	0.019	0.021	0.0098	0.036	0.006	0.007
Cadmium, Cd	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	0.002
Free Cyanide	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	0.08
Nitrite, NO_2	mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	3
Silver, Ag	mg/L	<0.004	<0.004	<0.004	<0.004	<0.004	0.1
Barium, Ba	mg/L	0.033	0.062	0.09	0.029	0.12	0.7
Selenium, Se	mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	0.01
Mercury, Hg	mg/L	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.001
Boron, B	mg/L	0.5	0.5	0.6	0.5	0.5	4
Molybdenum, Mo	mg/L	0.13	0.13	0.13	0.17	0.18	0.05
Nickel,Ni	mg/L	0.02	0.008	0.03	0.007	0.01	0.02
Copper, Cu	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	2
Zinc, Zn	mg/L	0.04	0.04	0.07	0.05	0.12	3
Hexavalent Chromium	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	0.05
Ammonia Nitrogen NH_3-N	mg/L	<0.1	<0.1	<0.1	<0.1	<0.1	0.5
Antimony, Sb	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	0.003
Bromide, Br	mg/L	0.98	0.94	1.4	0.6	1.3	-
Hydrogen Sulphide,H_2S	mg/L	0.8	0.9	1.2	0.9	0.8	0.05
Sediment	n/a	none	none	slight	none	slight	
Odour	n/a	none	none	none	none	none	
Colour	n/a	none	none	none	none	none	
Turbidity	n/a	none	none	slight	none	none	

1. Australia Drinking Water Guidelines,2004

** Aesthetic Guideline Value

Bore ID		TDRC06	TDRC10	TDRC13	SRD77	SRD80	PRC33	PRC2	
Date Sampled					21/11/05	21/11/05	21/11/05	21/11/05	**Drinking Water**
Analyte Description	**Units**								**Guideline Values[1]**
pH	pH Units	8.2	8.2	8.1	8.1	8.4	7.7	7.9	6.5-8.5**
Conductivity @25°C	µS/cm	1700	1700	1600	1500	1500	5800	1700	1000
Total Dissolved Solids (Calculated)	mg/L	1000	1000	940	820	850	3100	940	500**
Sodium, Na	mg/L	270	230	190	140	180	1100	95	180**
Potassium, K	mg/L	2.7	2.1	3	4.5	1.9	26	10	-
Calcium, Ca	mg/L	57	49	65	61	53	19	79	-
Magnesium, Mg	mg/L	55	66	74	68	57	100	110	-
Iron, Fe	mg/L	0.12	0.76	0.06	<0.05	0.25	<0.05	<0.05	0.3
Chloride, Cl	mg/L	320	250	240	170	190	1000	200	250**
Sulphate, SO_4	mg/L	110	82	87	79	58	580	100	250**
Nitrate, NO_3	mg/L	4.4	19	20	2.3	0.46	3.92	1	50
Bicarbonate, HCO_3	mg/L	440	500	500	490	490	790	570	-
Carbonate, CO_3	mg/L								-
Fluoride, F	mg/L	0.9	1.2	1					1.5
Hardness (as $CaCO_3$)	mg/L	370	390	460					200
Manganese, Mn	mg/L	0.013	0.036	0.007					0.1**
Aluminium, Al	mg/L	0.09	0.35	0.04					0.2
Lead, Pb	mg/L	<0.005	<0.005	<0.005					0.01
Arsenic, As	mg/L	0.005	0.002	0.001					0.007
Cadmium, Cd	mg/L	<0.001	<0.001	<0.001					0.002
Free Cyanide	mg/L	<0.01	<0.01	<0.01					0.08
Nitrite, NO_2	mg/L	<0.005	0.007	<0.005					3
Silver, Ag	mg/L	<0.004	<0.004	<0.004					0.1
Barium, Ba	mg/L	0.1	0.15	0.18					0.7
Selenium, Se	mg/L	<0.005	<0.005	<0.005					0.01
Mercury, Hg	mg/L	<0.0005	<0.0005	<0.0005					0.001
Boron, B	mg/L	0.5	0.4	0.3					4
Molybdenum, Mo	mg/L	0.04	0.02	<0.01					0.05
Nickel,Ni	mg/L	<0.005	0.03	<0.005					0.02
Copper, Cu	mg/L	<0.01	<0.01	<0.01					2
Zinc, Zn	mg/L	0.05	0.03	0.03					3
Hexavalent Chromium	mg/L	<0.01	<0.01	<0.01					0.05
Ammonia Nitrogen NH_3-N	mg/L	<0.1	<0.1	<0.1					0.5
Antimony, Sb	mg/L	<0.002	<0.002	<0.002					0.003
Bromide, Br	mg/L	1.1	0.9	1.1					-
Hydrogen Sulphide,H_2S	mg/L	0.8	0.6	0.6					0.05
Sediment	n/a	none	none	none					
Odour	n/a	none	none	none					
Colour	n/a	none	none	none					
Turbidity	n/a	none	none	none					

1. Australia Drinking Water Guidelines,2004

** Aesthetic Guideline Value

Bore ID	Samples from Coppin Gap								
Date Sampled		29-11-05	20-12-05	03-01-06	25-01-06	21-03-06	25-04-06	23-05-06	**Drinking Water**
Analyte Description	**Units**								**Guideline Values[1]**
pH	pH Units								6.5-8.5**
Conductivity @25°C	µS/cm								1000
Total Dissolved Solids (Calculated)	mg/L	2530	2080	540	981	980	1190	1200	500**
Sodium, Na	mg/L	475	494	108	234	213	256	278	180**
Potassium, K	mg/L	7	7	4	4	4	4	4	-
Calcium, Ca	mg/L	62	49	28	45	52	63	61	-
Magnesium, Mg	mg/L	163	175	29	80	74	100	99	-
Iron, Fe	mg/L								0.3
Chloride, Cl	mg/L	740	789	128	290	272	305	298	250**
Sulphate, SO_4	mg/L	178	186	47	86	92	113	128	250**
Nitrate, NO_3	mg/L		66.8	0.01		0.014	0.01	0.018	50
Bicarbonate, HCO_3	mg/L	679	637	183	384	419	484	539	-
Carbonate, CO_3	mg/L								-
Fluoride, F	mg/L								1.5
Hardness (as $CaCO_3$)	mg/L								200
Manganese, Mn	mg/L	0.07	0.068	0.171	0.106	0.06	0.041	0.021	0.1**
Aluminium, Al	mg/L								0.2
Lead, Pb	mg/L								0.01
Arsenic, As	mg/L	0.019	0.025	0.007	0.012	0.013	0.011	0.011	0.007
Cadmium, Cd	mg/L	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.002
Free Cyanide	mg/L								0.08
Nitrite, NO_2	mg/L								3
Silver, Ag	mg/L								0.1
Barium, Ba	mg/L	0.083	0.08	0.041	0.047	0.045	0.045	0.046	0.7
Selenium, Se	mg/L								0.01
Mercury, Hg	mg/L	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.001
Boron, B	mg/L								4
Molybdenum, Mo	mg/L	0.1			0.068				0.05
Nickel,Ni	mg/L	0.001	0.002	0.004	0.002	0.001	0.002	0.001	0.02
Copper, Cu	mg/L	0.001	0.002	0.007	0.004	0.001	0.001	0.001	2
Zinc, Zn	mg/L	0.005	0.005	0.005	0.005	0.005	0.005	0.005	3
Hexavalent Chromium	mg/L	0.001	0.001	0.006	0.002	0.001	0.001	0.001	0.05
Ammonia Nitrogen NH_3-N	mg/L								0.5
Antimony, Sb	mg/L								0.003
Bromide, Br	mg/L								-
Hydrogen Sulphide,H_2S	mg/L								0.05
Sediment	n/a								
Odour	n/a								
Colour	n/a								
Turbidity	n/a								

1. Australia Drinking Water Guidelines,2004

** Aesthetic Guideline Value

Date Sampled		27-06-05	08-08-06	29-08-06	26-09-06	01-11-06	30-11-06	04-01-07	**Drinking Water**
Analyte Description	**Units**								**Guideline Values[1]**
pH	pH Units								6.5-8.5**
Conductivity @25°C	µS/cm								1000
Total Dissolved Solids (Calculated)	mg/L	1250	2080	540	981	980	1190	1200	500**
Sodium, Na	mg/L	298	290	374	315	343	398	503	180**
Potassium, K	mg/L	4	4	4	4	6	4	8	-
Calcium, Ca	mg/L	58	57	52	50	43	36	28	-
Magnesium, Mg	mg/L	102	102	104	104	112	109	155	-
Iron, Fe	mg/L								0.3
Chloride, Cl	mg/L	322	354	380	407	412	466	552	250**
Sulphate, SO_4	mg/L	140	124	138	122	111	116	181	250**
Nitrate, NO_3	mg/L	0.01	0.01	0.01	0.012	0.01	0.011	0.701	50
Bicarbonate, HCO_3	mg/L	532	569	613	524	571	566	529	-
Carbonate, CO_3	mg/L								-
Fluoride, F	mg/L								1.5
Hardness (as $CaCO_3$)	mg/L								200
Manganese, Mn	mg/L	0.019	0.022	0.029	0.033	0.033	0.021	0.038	0.1**
Aluminium, Al	mg/L								0.2
Lead, Pb	mg/L								0.01
Arsenic, As	mg/L	0.01	0.02	0.013	0.021	0.017	0.015	0.02	0.007
Cadmium, Cd	mg/L	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.002
Free Cyanide	mg/L								0.08
Nitrite, NO_2	mg/L								3
Silver, Ag	mg/L								0.1
Barium, Ba	mg/L	0.05	0.045	0.048	0.05	0.05	0.052	0.031	0.7
Selenium, Se	mg/L								0.01
Mercury, Hg	mg/L	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.001
Boron, B	mg/L								4
Molybdenum, Mo	mg/L	0.094	0.108	0.113	0.134	0.114	0.12	0.157	0.05
Nickel,Ni	mg/L	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.02
Copper, Cu	mg/L	0.001	0.001	0.001	0.001	0.001	0.001	0.002	2
Zinc, Zn	mg/L	0.005	0.006	0.005	0.005	0.005	0.005	0.006	3
Hexavalent Chromium	mg/L	0.001	0.001	0.001	0.001	0.001	0.005	0.001	0.05
Ammonia Nitrogen NH_3-N	mg/L								0.5
Antimony, Sb	mg/L								0.003
Bromide, Br	mg/L								-
Hydrogen Sulphide,H_2S	mg/L								0.05
Sediment	n/a								
Odour	n/a								
Colour	n/a								
Turbidity	n/a								

1. Australia Drinking Water Guidelines,2004

** Aesthetic Guideline Value

CLIENT: Rockwater Pty Ltd
PROJECT: 325.2 Spinifex Ridge

OUR REFERENCE: 92967

LABORATORY REPORT

Your Reference Our Reference Date Sampled Type of Sample	Units	SRD 77 92967-1 21/11/2005 Water	SRD 80 92967-2 21/11/2005 Water	PRC 33 92967-3 21/11/2005 Water	PRC 2 92967-4 21/11/2005 Water
pH	pH Units	8.1	8.4	7.7	7.9
Conductivity @25°C	µS/cm	1,500	1,500	5,800	1,700
Total Dissolved Solids (grav) @ 180°C	mg/L	820	850	3,100	940
Iron, Fe (soluble)	mg/L	<0.05	0.25	<0.05	<0.05
Sodium, Na	mg/L	140	180	1,100	95
Potassium, K	mg/L	4.5	1.9	26	10
Calcium, Ca	mg/L	61	53	19	79
Magnesium, Mg	mg/L	68	57	100	110
Chloride, Cl	mg/L	170	190	1,000	200
Carbonate, CO_3	mg/L	<1	10	<1	<1
Bicarbonate, HCO_3	mg/L	490	490	790	570
Sulphate, SO_4	mg/L	79	58	580	100
Nitrate, NO_3	mg/L	2.3	11	3.7	1.5
Cation/Anion balance	%	1.32	0.46	3.92	1.00
Sum of Ions (calc.)	mg/L	1,012	1,049	3,622	1,163

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ALS Environmental

Analytical Results

				Client Sample ID :	20070309	20070310			
				Sample Matrix Type / Description :	WATER	WATER			
				Sample Date / Time :	9 Mar 2007 15:00	10 Mar 2007 15:00			
				Laboratory Sample ID :					
Analyte	**CAS number**	**LOR**	**Units**		**EP0701078-001**	**EP0701078-002**			
EA015: Total Dissolved Solids									
Total Dissolved Solids @180°C	GIS-210-010	1	mg/L		192	350			
EA025: Suspended Solids									
Suspended Solids (SS)		1	mg/L		200	80			
ED037P: Alkalinity by PC Titrator									
Hydroxide Alkalinity as CaCO3	DMO-210-001	1	mg/L		<1	<1			
Carbonate Alkalinity as CaCO3	3812-32-6	1	mg/L		<1	<1			
Bicarbonate Alkalinity as CaCO3	71-52-3	1	mg/L		75	110			
Total Alkalinity as CaCO3		1	mg/L		75	110			
ED040F: Dissolved Major Anions									
Sulphate as SO4 2-	14808-79-8	1	mg/L		40	28			
Sulphur as S	63705-05-5	1	mg/L		13	9			
ED045G: Chloride Discrete analyser									
Chloride	16887-00-6	1.0	mg/L		47.2	69.7			
ED093F: Dissolved Major Cations									
Calcium	7440-70-2	1	mg/L		17	20			
Magnesium	7439-95-4	1	mg/L		10	13			
Sodium	7440-23-5	1	mg/L		39	62			
Potassium	7440-09-7	1	mg/L		6	3			
EG020T: Total Metals by ICP-MS									
Arsenic	7440-38-2	0.001	mg/L		0.003	0.004			
Beryllium	7440-41-7	0.001	mg/L		<0.001	<0.001			
Barium	7440-39-3	0.001	mg/L		0.033	0.023			
Cadmium	7440-43-9	0.0001	mg/L		<0.0001	<0.0001			
Chromium	7440-47-3	0.001	mg/L		0.023	0.003			
Cobalt	7440-48-4	0.001	mg/L		0.004	<0.001			
Copper	7440-50-8	0.001	mg/L		0.011	0.006			
Lead	7439-92-1	0.001	mg/L		0.002	<0.001			
Manganese	7439-96-5	0.001	mg/L		0.145	0.059			
Molybdenum	7439-98-7	0.001	mg/L		0.012	0.019			
Nickel	7440-02-0	0.001	mg/L		0.011	0.002			
Vanadium	7440-62-2	0.01	mg/L		0.02	0.02			
Zinc	7440-66-6	0.005	mg/L		0.009	<0.005			
EG035T: Total Mercury by FIMS									
Mercury	7439-97-6	0.0001	mg/L		<0.0001	<0.0001			
EK057G: Nitrite as N by Discrete Analyser									
Nitrite as N		0.010	mg/L		0.022	0.026			

ALS Environmental

Analytical Results

				Client Sample ID :	20070309	20070310			
				Sample Matrix Type / Description :	WATER	WATER			
				Sample Date / Time :	9 Mar 2007 15:00	10 Mar 2007 15:00			
				Laboratory Sample ID :					
Analyte	**CAS number**	**LOR**	**Units**		**EP0701078-001**	**EP0701078-002**			
EK058G: Nitrate as N by Discrete Analyser									
Nitrate as N	14797-55-8	0.010	mg/L		0.217	0.496			
EK059G: NOX as N by Discrete Analyser									
Nitrite + Nitrate as N		0.010	mg/L		0.239	0.522			
EK061: Total Kjeldahl Nitrogen (TKN)									
Total Kjeldahl Nitrogen as N		0.1	mg/L		0.8	0.7			
EK067G: Total Phosphorous-As P by Discrete Analyser									
Total Phosphorus as P		0.01	mg/L		0.15	0.09			
EN055: Ionic Balance									
Total Anions		0.01	meq/L		3.65	4.73			
Total Cations		0.01	meq/L		3.50	4.81			
Ionic Balance		0.01	%		2.16	0.78			

ALS Environmental

Analytical Results

				Client Sample ID :				
				Sample Matrix Type / Description :				
				Sample Date / Time :				
				Laboratory Sample ID :				
Analyte	**CAS number**	**LOR**	**Units**	**20070227**				
				WATER				
				27 Feb 2007 11:00				
				EP0700800-001				
EA015: Total Dissolved Solids								
Total Dissolved Solids @180°C	GIS-210-010	1	mg/L	1860				
EA025: Suspended Solids								
Suspended Solids (SS)		1	mg/L	24				
ED037P: Alkalinity by PC Titrator								
Hydroxide Alkalinity as CaCO3	DMO-210-001	1	mg/L	<1				
Carbonate Alkalinity as CaCO3	3812-32-6	1	mg/L	206				
Bicarbonate Alkalinity as CaCO3	71-52-3	1	mg/L	642				
Total Alkalinity as CaCO3		1	mg/L	847				
ED040F: Dissolved Major Anions								
Sulphate as SO4 2-	14808-79-8	1	mg/L	114				
Sulphur as S	63705-05-5	1	mg/L	38				
ED045G: Chloride Discrete analyser								
Chloride	16887-00-6	1.0	mg/L	582				
ED093F: Dissolved Major Cations								
Calcium	7440-70-2	1	mg/L	19				
Magnesium	7439-95-4	1	mg/L	128				
Sodium	7440-23-5	1	mg/L	556				
Potassium	7440-09-7	1	mg/L	5				
EG020T: Total Metals by ICP-MS								
Arsenic	7440-38-2	0.001	mg/L	0.024				
Beryllium	7440-41-7	0.001	mg/L	<0.001				
Barium	7440-39-3	0.001	mg/L	0.028				
Cadmium	7440-43-9	0.0001	mg/L	<0.0001				
Chromium	7440-47-3	0.001	mg/L	0.002				
Cobalt	7440-48-4	0.001	mg/L	<0.001				
Copper	7440-50-8	0.001	mg/L	0.002				
Lead	7439-92-1	0.001	mg/L	<0.001				
Manganese	7439-96-5	0.001	mg/L	0.061				
Molybdenum	7439-98-7	0.001	mg/L	0.146				
Nickel	7440-02-0	0.001	mg/L	<0.001				
Vanadium	7440-62-2	0.01	mg/L	<0.01				
Zinc	7440-66-6	0.005	mg/L	<0.005				
EG035T: Total Mercury by FIMS								
Mercury	7439-97-6	0.0001	mg/L	<0.0001				
EK057G: Nitrite as N by Discrete Analyser								
Nitrite as N		0.010	mg/L	<0.010				

ALS Environmental

Analytical Results

				Client Sample ID :	20070227				
				Sample Matrix Type / Description :	WATER				
				Sample Date / Time :	27 Feb 2007 11:00				
				Laboratory Sample ID :	EP0700800-001				
Analyte	**CAS number**	**LOR**	**Units**						
EK058G: Nitrate as N by Discrete Analyser									
Nitrate as N	14797-55-8	0.010	mg/L		<0.010				
EK059G: NOX as N by Discrete Analyser									
Nitrite + Nitrate as N		0.010	mg/L		<0.010				
EK061: Total Kjeldahl Nitrogen (TKN)									
Total Kjeldahl Nitrogen as N		0.1	mg/L		0.5				
EK067G: Total Phosphorous-As P by Discrete Analyser									
Total Phosphorus as P		0.01	mg/L		<0.01				
EN055: Ionic Balance									
Total Anions		0.01	meq/L		35.7				
Total Cations		0.01	meq/L		35.8				
Ionic Balance		0.01	%		0.02				

ALS Environmental

Analytical Results

			Client Sample ID :	20070213				
			Sample Matrix Type / Description :	WATER				
			Sample Date / Time :	13 Feb 2007 15:00				
			Laboratory Sample ID :	EP0700583-001				
Analyte	**CAS number**	**LOR**	**Units**					
EA015: Total Dissolved Solids								
Total Dissolved Solids @180°C	GIS-210-010	1	mg/L	1850				
EA025: Suspended Solids								
Suspended Solids (SS)		1	mg/L	12				
ED037P: Alkalinity by PC Titrator								
Hydroxide Alkalinity as CaCO3	DMO-210-001	1	mg/L	<1				
Carbonate Alkalinity as CaCO3	3812-32-6	1	mg/L	195				
Bicarbonate Alkalinity as CaCO3	71-52-3	1	mg/L	597				
Total Alkalinity as CaCO3		1	mg/L	791				
ED040F: Dissolved Major Anions								
Sulphate as SO4 2-	14808-79-8	1	mg/L	108				
ED045G: Chloride Discrete analyser								
Chloride	16887-00-6	1.0	mg/L	530				
ED093F: Dissolved Major Cations								
Calcium	7440-70-2	1	mg/L	19				
Magnesium	7439-95-4	1	mg/L	122				
Sodium	7440-23-5	1	mg/L	483				
Potassium	7440-09-7	1	mg/L	9				
EG020T: Total Metals by ICP-MS								
Arsenic	7440-38-2	0.001	mg/L	0.022				
Beryllium	7440-41-7	0.001	mg/L	<0.001				
Barium	7440-39-3	0.001	mg/L	0.028				
Cadmium	7440-43-9	0.0001	mg/L	<0.0001				
Chromium	7440-47-3	0.001	mg/L	<0.001				
Cobalt	7440-48-4	0.001	mg/L	<0.001				
Copper	7440-50-8	0.001	mg/L	0.002				
Lead	7439-92-1	0.001	mg/L	<0.001				
Manganese	7439-96-5	0.001	mg/L	0.030				
Molybdenum	7439-98-7	0.001	mg/L	0.147				
Nickel	7440-02-0	0.001	mg/L	<0.001				
Vanadium	7440-62-2	0.01	mg/L	<0.01				
Zinc	7440-66-6	0.005	mg/L	<0.005				
EG035T: Total Mercury by FIMS								
Mercury	7439-97-6	0.0001	mg/L	<0.0001				
EK057G: Nitrite as N by Discrete Analyser								
Nitrite as N		0.010	mg/L	<0.010				
EK058G: Nitrate as N by Discrete Analyser								
Nitrate as N	14797-55-8	0.010	mg/L	<0.010				

ALS Environmental

Analytical Results

			Client Sample ID :	20070213				
			Sample Matrix Type / Description :	WATER				
			Sample Date / Time :	13 Feb 2007 15:00				
			Laboratory Sample ID :	EP0700583-001				
Analyte	**CAS number**	**LOR**	**Units**					
EK059G: NOX as N by Discrete Analyser								
Nitrite + Nitrate as N		0.010	mg/L	<0.010				
EK061: Total Kjeldahl Nitrogen (TKN)								
Total Kjeldahl Nitrogen as N		0.1	mg/L	0.6				
EK067G: Total Phosphorous-As P by Discrete Analyser								
Total Phosphorus as P		0.01	mg/L	0.03				
EN055: Ionic Balance								
Total Anions		0.01	meq/L	33.0				
Total Cations		0.01	meq/L	32.2				
Ionic Balance		0.01	%	1.29				

ALS Environmental

Analytical Results

			Client Sample ID :	20070104				
			Sample Matrix Type / Description :	WATER				
			Sample Date / Time :	4 Jan 2007 8:00				
			Laboratory Sample ID :	EP0700031-001				
Analyte	**CAS number**	**LOR**	**Units**					
EA015: Total Dissolved Solids								
Total Dissolved Solids @180°C	GIS-210-010	1	mg/L	2370				
EA025: Suspended Solids								
Suspended Solids (SS)		1	mg/L	32				
ED037P: Alkalinity by PC Titrator								
Hydroxide Alkalinity as CaCO3	DMO-210-001	1	mg/L	<1				
Carbonate Alkalinity as CaCO3	3812-32-6	1	mg/L	141				
Bicarbonate Alkalinity as CaCO3	71-52-3	1	mg/L	529				
Total Alkalinity as CaCO3		1	mg/L	669				
ED040F: Dissolved Major Anions								
Sulphate as SO4 2-	14808-79-8	1	mg/L	181				
Sulphur as S	63705-05-5	1	mg/L	60				
ED045G: Chloride Discrete analyser								
Chloride	16887-00-6	1.0	mg/L	552				
ED093F: Dissolved Major Cations								
Calcium	7440-70-2	1	mg/L	28				
Magnesium	7439-95-4	1	mg/L	155				
Sodium	7440-23-5	1	mg/L	503				
Potassium	7440-09-7	1	mg/L	8				
EG020T: Total Metals by ICP-MS								
Arsenic	7440-38-2	0.001	mg/L	0.020				
Beryllium	7440-41-7	0.001	mg/L	<0.001				
Barium	7440-39-3	0.001	mg/L	0.031				
Cadmium	7440-43-9	0.0001	mg/L	<0.0001				
Chromium	7440-47-3	0.001	mg/L	<0.001				
Cobalt	7440-48-4	0.001	mg/L	<0.001				
Copper	7440-50-8	0.001	mg/L	0.002				
Lead	7439-92-1	0.001	mg/L	<0.001				
Manganese	7439-96-5	0.001	mg/L	0.038				
Molybdenum	7439-98-7	0.001	mg/L	0.157				
Nickel	7440-02-0	0.001	mg/L	<0.001				
Vanadium	7440-62-2	0.01	mg/L	<0.01				
Zinc	7440-66-6	0.005	mg/L	0.006				
EG035T: Total Mercury by FIMS								
Mercury	7439-97-6	0.0001	mg/L	<0.0001				
EK057G: Nitrite as N by Discrete Analyser								
Nitrite as N		0.010	mg/L	<0.010				

ALS Environmental

Analytical Results

			Client Sample ID :	20070104				
			Sample Matrix Type / Description :	WATER				
			Sample Date / Time :	4 Jan 2007 8:00				
			Laboratory Sample ID :	EP0700031-001				
Analyte	**CAS number**	**LOR**	**Units**					
EK058G: Nitrate as N by Discrete Analyser								
Nitrate as N	14797-55-8	0.010	mg/L	0.701				
EK059G: NOX as N by Discrete Analyser								
Nitrite + Nitrate as N		0.010	mg/L	0.701				
EK061: Total Kjeldahl Nitrogen (TKN)								
Total Kjeldahl Nitrogen as N		0.1	mg/L	0.4				
EK067G: Total Phosphorous-As P by Discrete Analyser								
Total Phosphorus as P		0.01	mg/L	0.02				
EN055: Ionic Balance								
Total Anions		0.01	meq/L	32.7				
Total Cations		0.01	meq/L	36.2				
Ionic Balance		0.01	%	5.08				

ALS Environmental

Analytical Results

			Client Sample ID :	20061130				
			Sample Matrix Type / Description :	WATER				
			Sample Date / Time :	30 Nov 2006 9:00				
			Laboratory Sample ID :	EP0603423-001				
Analyte	**CAS number**	**LOR**	**Units**					
EA015: Total Dissolved Solids								
Total Dissolved Solids @180°C	GIS-210-010	1	mg/L	1550				
EA025: Suspended Solids								
Suspended Solids (SS)		1	mg/L	4				
ED037P: Alkalinity by PC Titrator								
Hydroxide Alkalinity as CaCO3	DMO-210-001	1	mg/L	<1				
Carbonate Alkalinity as CaCO3	3812-32-6	1	mg/L	112				
Bicarbonate Alkalinity as CaCO3	71-52-3	1	mg/L	566				
Total Alkalinity as CaCO3		1	mg/L	677				
ED040F: Dissolved Major Anions								
Sulphate as SO4 2-	14808-79-8	1	mg/L	116				
Sulphur as S	63705-05-5	1	mg/L	39				
ED045G: Chloride Discrete analyser								
Chloride	16887-00-6	1.0	mg/L	466				
ED093F: Dissolved Major Cations								
Calcium	7440-70-2	1	mg/L	36				
Magnesium	7439-95-4	1	mg/L	109				
Sodium	7440-23-5	1	mg/L	398				
Potassium	7440-09-7	1	mg/L	4				
EG020T: Total Metals by ICP-MS								
Arsenic	7440-38-2	0.001	mg/L	0.015				
Beryllium	7440-41-7	0.001	mg/L	<0.001				
Barium	7440-39-3	0.001	mg/L	0.052				
Cadmium	7440-43-9	0.0001	mg/L	<0.0001				
Chromium	7440-47-3	0.001	mg/L	0.005				
Cobalt	7440-48-4	0.001	mg/L	<0.001				
Copper	7440-50-8	0.001	mg/L	<0.001				
Lead	7439-92-1	0.001	mg/L	<0.001				
Manganese	7439-96-5	0.001	mg/L	0.021				
Molybdenum	7439-98-7	0.001	mg/L	0.120				
Nickel	7440-02-0	0.001	mg/L	<0.001				
Vanadium	7440-62-2	0.01	mg/L	<0.01				
Zinc	7440-66-6	0.005	mg/L	<0.005				
EG035T: Total Mercury by FIMS								
Mercury	7439-97-6	0.0001	mg/L	<0.0001				
EK057G: Nitrite as N by Discrete Analyser								
Nitrite as N		0.010	mg/L	<0.010				

ALS Environmental

Analytical Results

			Client Sample ID :	20061130				
			Sample Matrix Type / Description :	WATER				
			Sample Date / Time :	30 Nov 2006 9:00				
			Laboratory Sample ID :	EP0603423-001				
Analyte	**CAS number**	**LOR**	**Units**					
EK058G: Nitrate as N by Discrete Analyser								
Nitrate as N	14797-55-8	0.010	mg/L	0.011				
EK059G: NOX as N by Discrete Analyser								
Nitrite + Nitrate as N		0.010	mg/L	0.011				
EK061: Total Kjeldahl Nitrogen (TKN)								
Total Kjeldahl Nitrogen as N		0.1	mg/L	0.2				
EK067G: Total Phosphorous-As P by Discrete Analyser								
Total Phosphorus as P		0.01	mg/L	0.02				
EN055: Ionic Balance								
Total Anions		0.01	meq/L	29.1				
Total Cations		0.01	meq/L	28.2				
Ionic Balance		0.01	%	1.62				

ALS Environmental

Analytical Results

			Client Sample ID :	20061101				
			Sample Matrix Type / Description :	WATER				
			Sample Date / Time :	1 Nov 2006 7:00				
			Laboratory Sample ID :	EP0603000-001				
Analyte	**CAS number**	**LOR**	**Units**					
EA015: Total Dissolved Solids								
Total Dissolved Solids @180°C	GIS-210-010	1	mg/L	1440				
EA025: Suspended Solids								
Suspended Solids (SS)		1	mg/L	4				
ED037P: Alkalinity by PC Titrator								
Hydroxide Alkalinity as CaCO3	DMO-210-001	1	mg/L	<1				
Carbonate Alkalinity as CaCO3	3812-32-6	1	mg/L	96				
Bicarbonate Alkalinity as CaCO3	71-52-3	1	mg/L	571				
Total Alkalinity as CaCO3		1	mg/L	667				
ED040F: Dissolved Major Anions								
Sulphate as SO4 2-	14808-79-8	1	mg/L	111				
Sulphur as S	63705-05-5	1	mg/L	37				
ED045G: Chloride Discrete analyser								
Chloride	16887-00-6	1.0	mg/L	412				
ED093F: Dissolved Major Cations								
Calcium	7440-70-2	1	mg/L	43				
Magnesium	7439-95-4	1	mg/L	112				
Sodium	7440-23-5	1	mg/L	343				
Potassium	7440-09-7	1	mg/L	6				
EG020T: Total Metals by ICP-MS								
Arsenic	7440-38-2	0.001	mg/L	0.017				
Beryllium	7440-41-7	0.001	mg/L	<0.001				
Barium	7440-39-3	0.001	mg/L	0.050				
Cadmium	7440-43-9	0.0001	mg/L	<0.0001				
Chromium	7440-47-3	0.001	mg/L	<0.001				
Cobalt	7440-48-4	0.001	mg/L	<0.001				
Copper	7440-50-8	0.001	mg/L	<0.001				
Lead	7439-92-1	0.001	mg/L	<0.001				
Manganese	7439-96-5	0.001	mg/L	0.033				
Molybdenum	7439-98-7	0.001	mg/L	0.114				
Nickel	7440-02-0	0.001	mg/L	<0.001				
Vanadium	7440-62-2	0.01	mg/L	<0.01				
Zinc	7440-66-6	0.005	mg/L	<0.005				
EG035T: Total Mercury by FIMS								
Mercury	7439-97-6	0.0001	mg/L	<0.0001				
EK057G: Nitrite as N by Discrete Analyser								
Nitrite as N		0.010	mg/L	<0.010				

ALS Environmental

Analytical Results

			Client Sample ID :	20061101				
			Sample Matrix Type / Description :	WATER				
			Sample Date / Time :	1 Nov 2006 7:00				
			Laboratory Sample ID :	EP0603000-001				
Analyte	**CAS number**	**LOR**	**Units**					
EK058G: Nitrate as N by Discrete Analyser								
Nitrate as N	14797-55-8	0.010	mg/L	<0.010				
EK059G: NOX as N by Discrete Analyser								
Nitrite + Nitrate as N		0.010	mg/L	<0.010				
EK061: Total Kjeldahl Nitrogen (TKN)								
Total Kjeldahl Nitrogen as N		0.1	mg/L	0.5				
EK067G: Total Phosphorous-As P by Discrete Analyser								
Total Phosphorus as P		0.01	mg/L	0.04				
EN055: Ionic Balance								
Total Anions		0.01	meq/L	27.3				
Total Cations		0.01	meq/L	26.4				
Ionic Balance		0.01	%	1.55				

ALS Environmental

Analytical Results

			Client Sample ID :	20060926				
			Sample Matrix Type / Description :	WATER				
			Sample Date / Time :	26 Sep 2006 12:30				
			Laboratory Sample ID :	EP0602517-001				
Analyte	**CAS number**	**LOR**	**Units**					
EA015: Total Dissolved Solids								
Total Dissolved Solids @180°C	GIS-210-010	1	mg/L	1440				
EA025: Suspended Solids								
Suspended Solids (SS)		1	mg/L	6				
ED037P: Alkalinity by PC Titrator								
Hydroxide Alkalinity as CaCO3	DMO-210-001	1	mg/L	<1				
Carbonate Alkalinity as CaCO3	3812-32-6	1	mg/L	67				
Bicarbonate Alkalinity as CaCO3	71-52-3	1	mg/L	524				
Total Alkalinity as CaCO3		1	mg/L	591				
ED040F: Dissolved Major Anions								
Sulphate as SO4 2-	14808-79-8	1	mg/L	122				
Sulphur as S	63705-05-5	1	mg/L	41				
ED045G: Chloride Discrete analyser								
Chloride	16887-00-6	1.0	mg/L	407				
ED093F: Dissolved Major Cations								
Calcium	7440-70-2	1	mg/L	50				
Magnesium	7439-95-4	1	mg/L	104				
Sodium	7440-23-5	1	mg/L	315				
Potassium	7440-09-7	1	mg/L	4				
EG020T: Total Metals by ICP-MS								
Arsenic	7440-38-2	0.001	mg/L	0.021				
Beryllium	7440-41-7	0.001	mg/L	<0.001				
Barium	7440-39-3	0.001	mg/L	0.050				
Cadmium	7440-43-9	0.0001	mg/L	<0.0001				
Chromium	7440-47-3	0.001	mg/L	<0.001				
Cobalt	7440-48-4	0.001	mg/L	<0.001				
Copper	7440-50-8	0.001	mg/L	0.001				
Lead	7439-92-1	0.001	mg/L	<0.001				
Manganese	7439-96-5	0.001	mg/L	0.033				
Molybdenum	7439-98-7	0.001	mg/L	0.134				
Nickel	7440-02-0	0.001	mg/L	<0.001				
Vanadium	7440-62-2	0.01	mg/L	<0.01				
Zinc	7440-66-6	0.005	mg/L	<0.005				
EG035T: Total Mercury by FIMS								
Mercury	7439-97-6	0.0001	mg/L	<0.0001				
EK057G: Nitrite as N by Discrete Analyser								
Nitrite as N		0.010	mg/L	<0.010				

ALS Environmental

Analytical Results

			Client Sample ID :	20060926				
			Sample Matrix Type / Description :	WATER				
			Sample Date / Time :	26 Sep 2006 12:30				
			Laboratory Sample ID :	EP0602517-001				
Analyte	**CAS number**	**LOR**	**Units**					
EK058G: Nitrate as N by Discrete Analyser								
Nitrate as N	14797-55-8	0.010	mg/L	0.012				
EK059G: NOX as N by Discrete Analyser								
Nitrite + Nitrate as N		0.010	mg/L	0.012				
EK061: Total Kjeldahl Nitrogen (TKN)								
Total Kjeldahl Nitrogen as N		0.1	mg/L	0.3				
EK067G: Total Phosphorous-As P by Discrete Analyser								
Total Phosphorus as P		0.01	mg/L	<0.01				
EN055: Ionic Balance								
Total Anions		0.01	meq/L	25.8				
Total Cations		0.01	meq/L	24.9				
Ionic Balance		0.01	%	1.86				

ALS Environmental

Analytical Results

			Client Sample ID :	20060829				
			Sample Matrix Type / Description :	WATER				
			Sample Date / Time :	30 Aug 2006 15:00				
			Laboratory Sample ID :	EP0602188-001				
Analyte	**CAS number**	**LOR**	**Units**					
EA015: Total Dissolved Solids								
Total Dissolved Solids @180°C	GIS-210-010	1	mg/L	1510				
EA025: Suspended Solids								
Suspended Solids (SS)		1	mg/L	<1				
ED037P: Alkalinity by PC Titrator								
Hydroxide Alkalinity as CaCO3	DMO-210-001	1	mg/L	<1				
Carbonate Alkalinity as CaCO3	3812-32-6	1	mg/L	<1				
Bicarbonate Alkalinity as CaCO3	71-52-3	1	mg/L	613				
Total Alkalinity as CaCO3		1	mg/L	613				
ED040F: Dissolved Major Anions								
Sulphate as SO4 2-	14808-79-8	1	mg/L	138				
Sulphur as S	63705-05-5	1	mg/L	46				
ED045G: Chloride Discrete analyser								
Chloride	16887-00-6	1.0	mg/L	380				
ED093F: Dissolved Major Cations								
Calcium	7440-70-2	1	mg/L	52				
Magnesium	7439-95-4	1	mg/L	104				
Sodium	7440-23-5	1	mg/L	374				
Potassium	7440-09-7	1	mg/L	4				
EG020T: Total Metals by ICP-MS								
Aluminium	7429-90-5	0.01	mg/L	0.02				
Antimony	7440-36-0	0.001	mg/L	<0.001				
Arsenic	7440-38-2	0.001	mg/L	0.013				
Beryllium	7440-41-7	0.001	mg/L	<0.001				
Barium	7440-39-3	0.001	mg/L	0.048				
Cadmium	7440-43-9	0.0001	mg/L	<0.0001				
Chromium	7440-47-3	0.001	mg/L	<0.001				
Cobalt	7440-48-4	0.001	mg/L	<0.001				
Copper	7440-50-8	0.001	mg/L	0.001				
Lead	7439-92-1	0.001	mg/L	1.42				
Lithium	7439-93-2	0.001	mg/L	0.023				
Manganese	7439-96-5	0.001	mg/L	0.029				
Molybdenum	7439-98-7	0.001	mg/L	0.113				
Nickel	7440-02-0	0.001	mg/L	<0.001				
Selenium	7782-49-2	0.010	mg/L	<0.010				
Thallium	7440-28-0	0.001	mg/L	<0.001				
Tin	7440-31-5	0.001	mg/L	<0.001				
Vanadium	7440-62-2	0.01	mg/L	<0.01				

ALS Environmental

Analytical Results

			Client Sample ID :	20060829				
			Sample Matrix Type / Description :	WATER				
			Sample Date / Time :	30 Aug 2006 15:00				
			Laboratory Sample ID :	EP0602188-001				
Analyte	**CAS number**	**LOR**	**Units**					
EG020T: Total Metals by ICP-MS								
Zinc	7440-66-6	0.005	mg/L	<0.005				
Boron	7440-42-8	0.05	mg/L	0.57				
Iron	7439-89-6	0.05	mg/L	0.05				
EG035T: Total Mercury by FIMS								
Mercury	7439-97-6	0.0001	mg/L	<0.0001				
EK058G: Nitrate as N by Discrete Analyser								
Nitrate as N	14797-55-8	0.010	mg/L	<0.010				
EK059G: NOX as N by Discrete Analyser								
Nitrite + Nitrate as N		0.010	mg/L	<0.010				
EK061: Total Kjeldahl Nitrogen (TKN)								
Total Kjeldahl Nitrogen as N		0.1	mg/L	<0.1				
EK067G: Total Phosphorous-As P by Discrete Analyser								
Total Phosphorus as P		0.01	mg/L	<0.01				
EN055: Ionic Balance								
Total Anions		0.01	meq/L	25.8				
Total Cations		0.01	meq/L	27.5				
Ionic Balance		0.01	%	3.18				

ALS Environmental

Analytical Results

			Client Sample ID :	20060808				
			Sample Matrix Type / Description :	WATER				
			Sample Date / Time :	8 Aug 2006 16:00				
			Laboratory Sample ID :	EP0601960-001				
Analyte	**CAS number**	**LOR**	**Units**					
EA015: Total Dissolved Solids								
Total Dissolved Solids @180°C	GIS-210-010	1	mg/L	1340				
EA025: Suspended Solids								
Suspended Solids (SS)		1	mg/L	10				
ED037P: Alkalinity by PC Titrator								
Hydroxide Alkalinity as CaCO3	DMO-210-001	1	mg/L	<1				
Carbonate Alkalinity as CaCO3	3812-32-6	1	mg/L	<1				
Bicarbonate Alkalinity as CaCO3	71-52-3	1	mg/L	569				
Total Alkalinity as CaCO3		1	mg/L	569				
ED040F: Dissolved Major Anions								
Sulphate as SO4 2-	14808-79-8	1	mg/L	124				
Sulphur as S	63705-05-5	1	mg/L	41				
ED045G: Chloride Discrete analyser								
Chloride	16887-00-6	1.0	mg/L	354				
ED093F: Dissolved Major Cations								
Calcium	7440-70-2	1	mg/L	57				
Magnesium	7439-95-4	1	mg/L	102				
Sodium	7440-23-5	1	mg/L	290				
Potassium	7440-09-7	1	mg/L	4				
EG020T: Total Metals by ICP-MS								
Aluminium	7429-90-5	0.01	mg/L	0.02				
Antimony	7440-36-0	0.001	mg/L	<0.001				
Arsenic	7440-38-2	0.001	mg/L	0.012				
Beryllium	7440-41-7	0.001	mg/L	<0.001				
Barium	7440-39-3	0.001	mg/L	0.045				
Cadmium	7440-43-9	0.0001	mg/L	<0.0001				
Chromium	7440-47-3	0.001	mg/L	<0.001				
Cobalt	7440-48-4	0.001	mg/L	<0.001				
Copper	7440-50-8	0.001	mg/L	<0.001				
Lead	7439-92-1	0.001	mg/L	<0.001				
Lithium	7439-93-2	0.001	mg/L	0.022				
Manganese	7439-96-5	0.001	mg/L	0.027				
Molybdenum	7439-98-7	0.001	mg/L	0.108				
Nickel	7440-02-0	0.001	mg/L	<0.001				
Selenium	7782-49-2	0.010	mg/L	<0.010				
Thallium	7440-28-0	0.001	mg/L	<0.001				
Tin	7440-31-5	0.001	mg/L	<0.001				
Vanadium	7440-62-2	0.01	mg/L	<0.01				

ALS Environmental

Analytical Results

			Client Sample ID :	20060808				
			Sample Matrix Type / Description :	WATER				
			Sample Date / Time :	8 Aug 2006 16:00				
			Laboratory Sample ID :	EP0601960-001				
Analyte	**CAS number**	**LOR**	**Units**					
EG020T: Total Metals by ICP-MS								
Zinc	7440-66-6	0.005	mg/L	0.006				
Boron	7440-42-8	0.05	mg/L	0.48				
Iron	7439-89-6	0.05	mg/L	<0.05				
EG035T: Total Mercury by FIMS								
Mercury	7439-97-6	0.0001	mg/L	<0.0001				
EK057G: Nitrite as N by Discrete Analyser								
Nitrite as N		0.010	mg/L	<0.010				
EK058G: Nitrate as N by Discrete Analyser								
Nitrate as N	14797-55-8	0.010	mg/L	<0.010				
EK059G: NOX as N by Discrete Analyser								
Nitrite + Nitrate as N		0.010	mg/L	<0.010				
EK061: Total Kjeldahl Nitrogen (TKN)								
Total Kjeldahl Nitrogen as N		0.1	mg/L	<0.1				
EK067G: Total Phosphorous-As P by Discrete Analyser								
Total Phosphorus as P		0.01	mg/L	0.04				
EN055: Ionic Balance								
Total Anions		0.01	meq/L	24.0				
Total Cations		0.01	meq/L	24.0				
Ionic Balance		0.01	%	0.05				

ALS Environmental

Analytical Results

			Client Sample ID :	20060627				
			Sample Matrix Type / Description :	WATER				
			Sample Date / Time :	(28 Jun 2006) (15:00)				
			Laboratory Sample ID :	EP0601529-001				
Analyte	**CAS number**	**LOR**	**Units**					
EA015: Total Dissolved Solids								
Total Dissolved Solids @180°C	GIS-210-010	1	mg/L	1250				
EA025: Suspended Solids								
Suspended Solids (SS)		1	mg/L	4				
ED037P: Alkalinity by PC Titrator								
Hydroxide Alkalinity as CaCO3	DMO-210-001	1	mg/L	<1				
Carbonate Alkalinity as CaCO3	3812-32-6	1	mg/L	32				
Bicarbonate Alkalinity as CaCO3	71-52-3	1	mg/L	532				
Total Alkalinity as CaCO3		1	mg/L	564				
ED040F: Dissolved Major Anions								
Sulphate as SO4 2-	14808-79-8	1	mg/L	140				
Sulphur as S	63705-05-5	1	mg/L	47				
ED045G: Chloride Discrete analyser								
Chloride	16887-00-6	1.0	mg/L	322				
ED093F: Dissolved Major Cations								
Calcium	7440-70-2	1	mg/L	58				
Magnesium	7439-95-4	1	mg/L	102				
Sodium	7440-23-5	1	mg/L	298				
Potassium	7440-09-7	1	mg/L	4				
EG020T: Total Metals by ICP-MS								
Arsenic	7440-38-2	0.001	mg/L	0.010				
Beryllium	7440-41-7	0.001	mg/L	<0.001				
Barium	7440-39-3	0.001	mg/L	0.050				
Cadmium	7440-43-9	0.0001	mg/L	<0.0001				
Chromium	7440-47-3	0.001	mg/L	<0.001				
Cobalt	7440-48-4	0.001	mg/L	<0.001				
Copper	7440-50-8	0.001	mg/L	0.001				
Lead	7439-92-1	0.001	mg/L	<0.001				
Manganese	7439-96-5	0.001	mg/L	0.019				
Molybdenum	7439-98-7	0.001	mg/L	0.094				
Nickel	7440-02-0	0.001	mg/L	<0.001				
Vanadium	7440-62-2	0.01	mg/L	<0.01				
Zinc	7440-66-6	0.005	mg/L	<0.005				
EG035T: Total Mercury by FIMS								
Mercury	7439-97-6	0.0001	mg/L	<0.0001				
EK057G: Nitrite as N by Discrete Analyser								
Nitrite as N		0.010	mg/L	0.013				

ALS Environmental

Analytical Results

			Client Sample ID :	20060627				
			Sample Matrix Type / Description :	WATER				
			Sample Date / Time :	(28 Jun 2006) (15:00)				
			Laboratory Sample ID :	EP0601529-001				
Analyte	**CAS number**	**LOR**	**Units**					
EK058G: Nitrate as N by Discrete Analyser								
Nitrate as N	14797-55-8	0.010	mg/L	<0.010				
EK059G: NOX as N by Discrete Analyser								
Nitrite + Nitrate as N		0.010	mg/L	0.020				
EK061: Total Kjeldahl Nitrogen (TKN)								
Total Kjeldahl Nitrogen as N		0.1	mg/L	<0.1				
EK067G: Total Phosphorous-As P by Discrete Analyser								
Total Phosphorus as P		0.01	mg/L	<0.01				
EN055: Ionic Balance								
Total Anions		0.01	meq/L	23.3				
Total Cations		0.01	meq/L	24.4				
Ionic Balance		0.01	%	2.25				

ALS Environmental

Analytical Results

			Client Sample ID :	20060523				
			Sample Matrix Type / Description :	WATER				
			Sample Date / Time :	23 May 2006 16:35				
			Laboratory Sample ID :	EP0601245-001				
Analyte	**CAS number**	**LOR**	**Units**					
EA015: Total Dissolved Solids								
Total Dissolved Solids @180°C	GIS-210-010	1	mg/L	1200				
EA025: Suspended Solids								
Suspended Solids (SS)		1	mg/L	5				
ED037P: Alkalinity by PC Titrator								
Hydroxide Alkalinity as CaCO3	DMO-210-001	1	mg/L	<1				
Carbonate Alkalinity as CaCO3	3812-32-6	1	mg/L	<1				
Bicarbonate Alkalinity as CaCO3	71-52-3	1	mg/L	539				
Total Alkalinity as CaCO3		1	mg/L	539				
ED040F: Dissolved Major Anions								
Sulphate as SO4 2-	14808-79-8	1	mg/L	128				
Sulphur as S	63705-05-5	1	mg/L	42				
ED045G: Chloride Discrete analyser								
Chloride	16887-00-6	1.0	mg/L	298				
ED093F: Dissolved Major Cations								
Calcium	7440-70-2	1	mg/L	61				
Magnesium	7439-95-4	1	mg/L	99				
Sodium	7440-23-5	1	mg/L	278				
Potassium	7440-09-7	1	mg/L	4				
EG020T: Total Metals by ICP-MS								
Arsenic	7440-38-2	0.001	mg/L	0.011				
Beryllium	7440-41-7	0.001	mg/L	<0.001				
Barium	7440-39-3	0.001	mg/L	0.046				
Cadmium	7440-43-9	0.0001	mg/L	<0.0001				
Chromium	7440-47-3	0.001	mg/L	<0.001				
Cobalt	7440-48-4	0.001	mg/L	<0.001				
Copper	7440-50-8	0.001	mg/L	0.001				
Lead	7439-92-1	0.001	mg/L	<0.001				
Manganese	7439-96-5	0.001	mg/L	0.021				
Nickel	7440-02-0	0.001	mg/L	<0.001				
Vanadium	7440-62-2	0.01	mg/L	<0.01				
Zinc	7440-66-6	0.005	mg/L	0.005				
EG035T: Total Mercury by FIMS								
Mercury	7439-97-6	0.0001	mg/L	<0.0001				
EK057G: Nitrite as N by Discrete Analyser								
Nitrite as N		0.010	mg/L	<0.010				
EK058G: Nitrate as N by Discrete Analyser								
Nitrate as N	14797-55-8	0.010	mg/L	0.018				

ALS Environmental

Analytical Results

			Client Sample ID :	20060523				
			Sample Matrix Type / Description :	WATER				
			Sample Date / Time :	23 May 2006 16:35				
			Laboratory Sample ID :	EP0601245-001				
Analyte	**CAS number**	**LOR**	**Units**					
EK059G: NOX as N by Discrete Analyser								
Nitrite + Nitrate as N		0.010	mg/L	0.018				
EK061: Total Kjeldahl Nitrogen (TKN)								
Total Kjeldahl Nitrogen as N		0.1	mg/L	0.2				
EK067G: Total Phosphorous-As P by Discrete Analyser								
Total Phosphorus as P		0.01	mg/L	<0.01				
EN055: Ionic Balance								
Total Anions		0.01	meq/L	21.8				
Total Cations		0.01	meq/L	23.4				
Ionic Balance		0.01	%	3.42				

ALS Environmental

Analytical Results

			Client Sample ID :	20060425				
			Sample Matrix Type / Description :	WATER				
			Sample Date / Time :	25 Apr 2006 16:35				
			Laboratory Sample ID :	EP0600938-001				
Analyte	**CAS number**	**LOR**	**Units**					
EA015: Total Dissolved Solids								
Total Dissolved Solids @180°C	GIS-210-010	1	mg/L	1190				
EA025: Suspended Solids								
Suspended Solids (SS)		1	mg/L	<1				
ED037P: Alkalinity by PC Titrator								
Hydroxide Alkalinity as CaCO3	DMO-210-001	1	mg/L	<1				
Carbonate Alkalinity as CaCO3	3812-32-6	1	mg/L	14				
Bicarbonate Alkalinity as CaCO3	71-52-3	1	mg/L	484				
Total Alkalinity as CaCO3		1	mg/L	497				
ED040F: Dissolved Major Anions								
Sulphate as SO4 2-	14808-79-8	1	mg/L	113				
Sulphur as S	63705-05-5	1	mg/L	38				
ED045G: Chloride Discrete analyser								
Chloride	16887-00-6	1.0	mg/L	305				
ED093F: Dissolved Major Cations								
Calcium	7440-70-2	1	mg/L	63				
Magnesium	7439-95-4	1	mg/L	100				
Sodium	7440-23-5	1	mg/L	256				
Potassium	7440-09-7	1	mg/L	4				
EG020T: Total Metals by ICP-MS								
Arsenic	7440-38-2	0.001	mg/L	0.011				
Beryllium	7440-41-7	0.001	mg/L	<0.001				
Barium	7440-39-3	0.001	mg/L	0.045				
Cadmium	7440-43-9	0.0001	mg/L	<0.0001				
Chromium	7440-47-3	0.001	mg/L	<0.001				
Cobalt	7440-48-4	0.001	mg/L	<0.001				
Copper	7440-50-8	0.001	mg/L	0.001				
Lead	7439-92-1	0.001	mg/L	<0.001				
Manganese	7439-96-5	0.001	mg/L	0.041				
Nickel	7440-02-0	0.001	mg/L	0.002				
Vanadium	7440-62-2	0.01	mg/L	<0.01				
Zinc	7440-66-6	0.005	mg/L	<0.005				
EG035T: Total Mercury by FIMS								
Mercury	7439-97-6	0.0001	mg/L	<0.0001				
EK057G: Nitrite as N by Discrete Analyser								
Nitrite as N		0.010	mg/L	<0.010				
EK058G: Nitrate as N by Discrete Analyser								
Nitrate as N	14797-55-8	0.010	mg/L	<0.010				

ALS Environmental

Analytical Results

			Client Sample ID :	20060425				
			Sample Matrix Type / Description :	WATER				
			Sample Date / Time :	25 Apr 2006 16:35				
			Laboratory Sample ID :	EP0600938-001				
Analyte	**CAS number**	**LOR**	**Units**					
EK059G: NOX as N by Discrete Analyser								
Nitrite + Nitrate as N		0.010	mg/L	<0.010				
EK067G: Total Phosphorous-As P by Discrete Analyser								
Total Phosphorus as P		0.01	mg/L	0.03				
EN055: Ionic Balance								
Total Anions		0.01	meq/L	20.9				
Total Cations		0.01	meq/L	22.6				
Ionic Balance		0.01	%	4.02				

ALS Environmental

Analytical Results

			Client Sample ID :	20060321				
			Sample Matrix Type / Description :	WATER				
			Sample Date / Time :	21 Mar 2006 16:30				
			Laboratory Sample ID :	EP0600653-001				
Analyte	**CAS number**	**LOR**	**Units**					
EA015: Total Dissolved Solids								
Total Dissolved Solids @180°C	GIS-210-010	1	mg/L	980				
EA025: Suspended Solids								
Suspended Solids (SS)		1	mg/L	10				
ED037P: Alkalinity by PC Titrator								
Hydroxide Alkalinity as CaCO3	DMO-210-001	1	mg/L	<1				
Carbonate Alkalinity as CaCO3	3812-32-6	1	mg/L	<1				
Bicarbonate Alkalinity as CaCO3	71-52-3	1	mg/L	419				
Total Alkalinity as CaCO3		1	mg/L	419				
ED040F: Dissolved Major Anions								
Sulphate as SO4 2-	14808-79-8	1	mg/L	92				
Sulphur as S	63705-05-5	1	mg/L	31				
ED045G: Chloride Discrete analyser								
Chloride	16887-00-6	1.0	mg/L	272				
ED093F: Dissolved Major Cations								
Calcium	7440-70-2	1	mg/L	52				
Magnesium	7439-95-4	1	mg/L	74				
Sodium	7440-23-5	1	mg/L	213				
Potassium	7440-09-7	1	mg/L	4				
EG020T: Total Metals by ICP-MS								
Arsenic	7440-38-2	0.001	mg/L	0.013				
Beryllium	7440-41-7	0.001	mg/L	<0.001				
Barium	7440-39-3	0.001	mg/L	0.045				
Cadmium	7440-43-9	0.0001	mg/L	<0.0001				
Chromium	7440-47-3	0.001	mg/L	<0.001				
Cobalt	7440-48-4	0.001	mg/L	<0.001				
Copper	7440-50-8	0.001	mg/L	0.001				
Lead	7439-92-1	0.001	mg/L	<0.001				
Manganese	7439-96-5	0.001	mg/L	0.060				
Nickel	7440-02-0	0.001	mg/L	0.001				
Vanadium	7440-62-2	0.01	mg/L	<0.01				
Zinc	7440-66-6	0.005	mg/L	<0.005				
EG035T: Total Mercury by FIMS								
Mercury	7439-97-6	0.0001	mg/L	<0.0001				
EK055G: Ammonia as N by Discrete Analyser								
Ammonia as N	7664-41-7	0.010	mg/L	0.016				
EK057G: Nitrite as N by Discrete Analyser								
Nitrite as N		0.010	mg/L	<0.010				

ALS Environmental

Analytical Results

			Client Sample ID :	20060321				
			Sample Matrix Type / Description :	WATER				
			Sample Date / Time :	21 Mar 2006 16:30				
			Laboratory Sample ID :	EP0600653-001				
Analyte	**CAS number**	**LOR**	**Units**					
EK058G: Nitrate as N by Discrete Analyser								
Nitrate as N	14797-55-8	0.010	mg/L	0.014				
EK059G: NOX as N by Discrete Analyser								
Nitrite + Nitrate as N		0.010	mg/L	0.014				
EK061: Total Kjeldahl Nitrogen (TKN)								
Total Kjeldahl Nitrogen as N		0.1	mg/L	0.1				
EK067G: Total Phosphorous-As P by Discrete Analyser								
Total Phosphorus as P		0.01	mg/L	0.08				

ALS Environmental

Analytical Results

			Client Sample ID :	20060125				
			Sample Matrix Type / Description :	WATER				
			Sample Date / Time :	25 Jan 2006 15:00				
			Laboratory Sample ID :	EP0600174-001				
Analyte	**CAS number**	**LOR**	**Units**					
EA015: Total Dissolved Solids								
Total Dissolved Solids @180°C	GIS-210-010	1	mg/L	981				
EA025: Suspended Solids								
Suspended Solids (SS)		1	mg/L	14				
ED037P: Alkalinity by PC Titrator								
Hydroxide Alkalinity as CaCO3	DMO-210-001	1	mg/L	<1				
Carbonate Alkalinity as CaCO3	3812-32-6	1	mg/L	<1				
Bicarbonate Alkalinity as CaCO3	71-52-3	1	mg/L	384				
Total Alkalinity as CaCO3		1	mg/L	384				
ED040F: Dissolved Major Anions								
Sulphate as SO4 2-	14808-79-8	1	mg/L	86				
Sulphur as S	63705-05-5	1	mg/L	28				
ED045G: Chloride Discrete analyser								
Chloride	16887-00-6	1.0	mg/L	290				
ED093F: Dissolved Major Cations								
Calcium	7440-70-2	1	mg/L	45				
Magnesium	7439-95-4	1	mg/L	80				
Sodium	7440-23-5	1	mg/L	234				
Potassium	7440-09-7	1	mg/L	4				
EG020T: Total Metals by ICP-MS								
Arsenic	7440-38-2	0.001	mg/L	0.012				
Beryllium	7440-41-7	0.001	mg/L	<0.001				
Barium	7440-39-3	0.001	mg/L	0.047				
Cadmium	7440-43-9	0.0001	mg/L	<0.0001				
Chromium	7440-47-3	0.001	mg/L	0.002				
Cobalt	7440-48-4	0.001	mg/L	<0.001				
Copper	7440-50-8	0.001	mg/L	0.004				
Lead	7439-92-1	0.001	mg/L	<0.001				
Manganese	7439-96-5	0.001	mg/L	0.106				
Molybdenum	7439-98-7	0.001	mg/L	0.068				
Nickel	7440-02-0	0.001	mg/L	0.002				
Vanadium	7440-62-2	0.01	mg/L	<0.01				
Zinc	7440-66-6	0.005	mg/L	0.008				
EG035T: Total Mercury by FIMS								
Mercury	7439-97-6	0.0001	mg/L	<0.0001				
EK061: Total Kjeldahl Nitrogen (TKN)								
Total Kjeldahl Nitrogen as N		0.1	mg/L	0.5				

ALS Environmental

Analytical Results

			Client Sample ID :	20060125				
			Sample Matrix Type / Description :	WATER				
			Sample Date / Time :	25 Jan 2006 15:00				
			Laboratory Sample ID :	EP0600174-001				
Analyte	**CAS number**	**LOR**	**Units**					
EN055: Ionic Balance								
Total Anions		0.01	meq/L	17.6				
Total Cations		0.01	meq/L	19.1				
Ionic Balance		0.01	%	3.94				

ALS Environmental

Analytical Results

			Client Sample ID :	20060103				
			Sample Matrix Type / Description :	WATER				
			Sample Date / Time :	3 Jan 2006 15:00				
			Laboratory Sample ID :	EP0600018-001				
Analyte	**CAS number**	**LOR**	**Units**					
EA015: Total Dissolved Solids								
Total Dissolved Solids @180°C	GIS-210-010	1	mg/L	540				
EA025: Suspended Solids								
Suspended Solids (SS)		1	mg/L	30				
ED037P: Alkalinity by PC Titrator								
Hydroxide Alkalinity as CaCO3	DMO-210-001	1	mg/L	<1				
Carbonate Alkalinity as CaCO3	3812-32-6	1	mg/L	<1				
Bicarbonate Alkalinity as CaCO3	71-52-3	1	mg/L	183				
Total Alkalinity as CaCO3		1	mg/L	183				
ED040F: Dissolved Major Anions								
Sulphate as SO4 2-	14808-79-8	1	mg/L	47				
Sulphur as S	63705-05-5	1	mg/L	16				
ED045G: Chloride Discrete analyser								
Chloride	16887-00-6	1.0	mg/L	128				
ED093F: Dissolved Major Cations								
Calcium	7440-70-2	1	mg/L	28				
Magnesium	7439-95-4	1	mg/L	29				
Sodium	7440-23-5	1	mg/L	108				
Potassium	7440-09-7	1	mg/L	4				
EG020T: Total Metals by ICP-MS								
Arsenic	7440-38-2	0.001	mg/L	0.007				
Beryllium	7440-41-7	0.001	mg/L	<0.001				
Barium	7440-39-3	0.001	mg/L	0.041				
Cadmium	7440-43-9	0.0001	mg/L	<0.0001				
Chromium	7440-47-3	0.001	mg/L	0.006				
Cobalt	7440-48-4	0.001	mg/L	0.002				
Copper	7440-50-8	0.001	mg/L	0.007				
Lead	7439-92-1	0.001	mg/L	<0.001				
Manganese	7439-96-5	0.001	mg/L	0.171				
Nickel	7440-02-0	0.001	mg/L	0.004				
Vanadium	7440-62-2	0.01	mg/L	0.01				
Zinc	7440-66-6	0.005	mg/L	<0.005				
EG035T: Total Mercury by FIMS								
Mercury	7439-97-6	0.0001	mg/L	<0.0001				
EK057G: Nitrite as N by Discrete Analyser								
Nitrite as N		0.010	mg/L	<0.010				
EK058G: Nitrate as N by Discrete Analyser								
Nitrate as N	14797-55-8	0.010	mg/L	<0.010				

ALS Environmental

Analytical Results

			Client Sample ID :	20060103				
			Sample Matrix Type / Description :	WATER				
			Sample Date / Time :	3 Jan 2006 15:00				
			Laboratory Sample ID :	EP0600018-001				
Analyte	**CAS number**	**LOR**	**Units**					
EK059G: NOX as N by Discrete Analyser								
Nitrite + Nitrate as N		0.010	mg/L	<0.010				
EK061: Total Kjeldahl Nitrogen (TKN)								
Total Kjeldahl Nitrogen as N		0.1	mg/L	0.6				
EK067G: Total Phosphorous-As P by Discrete Analyser								
Total Phosphorus as P		0.01	mg/L	<0.01				
EN055: Ionic Balance								
Total Anions		0.01	meq/L	8.25				
Total Cations		0.01	meq/L	8.64				
Ionic Balance		0.01	%	2.30				

ALS Environmental

Analytical Results

			Client Sample ID :	20051129				
			Sample Matrix Type / Description :	WATER				
			Sample Date / Time :	29 Nov 2005 17:00				
			Laboratory Sample ID :	EP0501720-001				
Analyte	**CAS number**	**LOR**	**Units**					
EA015: Total Dissolved Solids								
Total Dissolved Solids @180°C	GIS-210-010	1	mg/L	2530				
EA025: Suspended Solids								
Suspended Solids (SS)		1	mg/L	6				
ED037P: Alkalinity by PC Titrator								
Hydroxide Alkalinity as CaCO3	DMO-210-001	1	mg/L	<1				
Carbonate Alkalinity as CaCO3	3812-32-6	1	mg/L	70				
Bicarbonate Alkalinity as CaCO3	71-52-3	1	mg/L	679				
Total Alkalinity as CaCO3		1	mg/L	750				
ED040F: Dissolved Major Anions								
Sulphate as SO4 2-	14808-79-8	1	mg/L	178				
Sulphur as S	63705-05-5	1	mg/L	59				
ED045G: Chloride Discrete analyser								
Chloride	16887-00-6	1.0	mg/L	740				
ED093F: Dissolved Major Cations								
Calcium	7440-70-2	1	mg/L	62				
Magnesium	7439-95-4	1	mg/L	163				
Sodium	7440-23-5	1	mg/L	475				
Potassium	7440-09-7	1	mg/L	7				
EG020T: Total Metals by ICP-MS								
Arsenic	7440-38-2	0.001	mg/L	0.019				
Beryllium	7440-41-7	0.001	mg/L	<0.001				
Barium	7440-39-3	0.001	mg/L	0.083				
Cadmium	7440-43-9	0.0001	mg/L	<0.0001				
Chromium	7440-47-3	0.001	mg/L	<0.001				
Cobalt	7440-48-4	0.001	mg/L	<0.001				
Copper	7440-50-8	0.001	mg/L	0.001				
Lead	7439-92-1	0.001	mg/L	<0.001				
Manganese	7439-96-5	0.001	mg/L	0.070				
Molybdenum	7439-98-7	0.001	mg/L	0.100				
Nickel	7440-02-0	0.001	mg/L	<0.001				
Vanadium	7440-62-2	0.01	mg/L	<0.01				
Zinc	7440-66-6	0.005	mg/L	<0.005				
EK061: Total Kjeldahl Nitrogen (TKN)								
Total Kjeldahl Nitrogen as N		0.1	mg/L	0.5				
EN055: Ionic Balance								
Total Anions		0.01	meq/L	39.5				
Total Cations		0.01	meq/L	37.3				

ALS Environmental

Analytical Results

			Client Sample ID :	20051129				
			Sample Matrix Type / Description :	WATER				
			Sample Date / Time :	29 Nov 2005 17:00				
			Laboratory Sample ID :	EP0501720-001				
Analyte	**CAS number**	**LOR**	**Units**					
EN055: Ionic Balance								
Ionic Balance		0.01	%	2.89				

ALS Environmental

Analytical Results

				Client Sample ID :	200703028				
				Sample Matrix Type / Description :	WATER				
				Sample Date / Time :	28 Mar 2007 16:30				
				Laboratory Sample ID :	EP0701235-001				
Analyte	**CAS number**	**LOR**	**Units**						
EA015: Total Dissolved Solids									
Total Dissolved Solids @180°C	GIS-210-010	1	mg/L		762				
EA025: Suspended Solids									
Suspended Solids (SS)		1	mg/L		13				
ED037P: Alkalinity by PC Titrator									
Hydroxide Alkalinity as CaCO3	DMO-210-001	1	mg/L		<1				
Carbonate Alkalinity as CaCO3	3812-32-6	1	mg/L		<1				
Bicarbonate Alkalinity as CaCO3	71-52-3	1	mg/L		305				
Total Alkalinity as CaCO3		1	mg/L		305				
ED040F: Dissolved Major Anions									
Sulphate as SO4 2-	14808-79-8	1	mg/L		52				
Sulphur as S	63705-05-5	1	mg/L		18				
ED045G: Chloride Discrete analyser									
Chloride	16887-00-6	1.0	mg/L		136				
ED093F: Dissolved Major Cations									
Calcium	7440-70-2	1	mg/L		43				
Magnesium	7439-95-4	1	mg/L		45				
Sodium	7440-23-5	1	mg/L		117				
Potassium	7440-09-7	1	mg/L		3				
EG020T: Total Metals by ICP-MS									
Arsenic	7440-38-2	0.001	mg/L		0.007				
Beryllium	7440-41-7	0.001	mg/L		<0.001				
Barium	7440-39-3	0.001	mg/L		0.020				
Cadmium	7440-43-9	0.0001	mg/L		0.0001				
Chromium	7440-47-3	0.001	mg/L		<0.001				
Cobalt	7440-48-4	0.001	mg/L		<0.001				
Copper	7440-50-8	0.001	mg/L		0.002				
Lead	7439-92-1	0.001	mg/L		<0.001				
Manganese	7439-96-5	0.001	mg/L		0.034				
Molybdenum	7439-98-7	0.001	mg/L		0.026				
Nickel	7440-02-0	0.001	mg/L		<0.001				
Vanadium	7440-62-2	0.01	mg/L		0.02				
Zinc	7440-66-6	0.005	mg/L		0.045				
EG035T: Total Mercury by FIMS									
Mercury	7439-97-6	0.0001	mg/L		<0.0001				
EK057G: Nitrite as N by Discrete Analyser									
Nitrite as N		0.010	mg/L		<0.010				

ALS Environmental

Analytical Results

				Client Sample ID :	200703028			
				Sample Matrix Type / Description :	WATER			
				Sample Date / Time :	28 Mar 2007 16:30			
				Laboratory Sample ID :	EP0701235-001			
Analyte	**CAS number**	**LOR**	**Units**					
EK058G: Nitrate as N by Discrete Analyser								
Nitrate as N	14797-55-8	0.010	mg/L		0.163			
EK059G: NOX as N by Discrete Analyser								
Nitrite + Nitrate as N		0.010	mg/L		0.163			
EK061: Total Kjeldahl Nitrogen (TKN)								
Total Kjeldahl Nitrogen as N		0.1	mg/L		0.3			
EK067G: Total Phosphorous-As P by Discrete Analyser								
Total Phosphorus as P		0.01	mg/L		0.02			
EN055: Ionic Balance								
Total Anions		0.01	meq/L		11.0			
Total Cations		0.01	meq/L		11.0			
Ionic Balance		0.01	%		0.11			

ALS Environmental

Analytical Results

			Client Sample ID :	20051220				
			Sample Matrix Type / Description :	WATER				
			Sample Date / Time :	20 Dec 2005 13:30				
			Laboratory Sample ID :	EP0501855-001				
Analyte	**CAS number**	**LOR**	**Units**					
EA015: Total Dissolved Solids								
Total Dissolved Solids @180°C	GIS-210-010	1	mg/L	2080				
EA025: Suspended Solids								
Suspended Solids (SS)		1	mg/L	3				
ED037P: Alkalinity by PC Titrator								
Hydroxide Alkalinity as CaCO3	DMO-210-001	1	mg/L	<1				
Carbonate Alkalinity as CaCO3	3812-32-6	1	mg/L	130				
Bicarbonate Alkalinity as CaCO3	71-52-3	1	mg/L	637				
Total Alkalinity as CaCO3		1	mg/L	766				
ED040F: Dissolved Major Anions								
Sulphate as SO4 2-	14808-79-8	1	mg/L	186				
Sulphur as S	63705-05-5	1	mg/L	62				
Silicon	7440-21-3	0.10	mg/L	29.0				
ED045G: Chloride Discrete analyser								
Chloride	16887-00-6	1.0	mg/L	789				
ED093F: Dissolved Major Cations								
Calcium	7440-70-2	1	mg/L	49				
Magnesium	7439-95-4	1	mg/L	175				
Sodium	7440-23-5	1	mg/L	494				
Potassium	7440-09-7	1	mg/L	7				
EG020T: Total Metals by ICP-MS								
Arsenic	7440-38-2	0.001	mg/L	0.025				
Beryllium	7440-41-7	0.001	mg/L	<0.001				
Barium	7440-39-3	0.001	mg/L	0.080				
Cadmium	7440-43-9	0.0001	mg/L	<0.0001				
Chromium	7440-47-3	0.001	mg/L	<0.001				
Cobalt	7440-48-4	0.001	mg/L	<0.001				
Copper	7440-50-8	0.001	mg/L	0.002				
Lead	7439-92-1	0.001	mg/L	<0.001				
Manganese	7439-96-5	0.001	mg/L	0.068				
Nickel	7440-02-0	0.001	mg/L	0.002				
Vanadium	7440-62-2	0.01	mg/L	0.01				
Zinc	7440-66-6	0.005	mg/L	0.005				
EG035T: Total Mercury by FIMS								
Mercury	7439-97-6	0.0001	mg/L	<0.0001				
EK057G: Nitrite as N by Discrete Analyser								
Nitrite as N		0.010	mg/L	<0.010				

ALS Environmental

Analytical Results

			Client Sample ID :	20051220				
			Sample Matrix Type / Description :	WATER				
			Sample Date / Time :	20 Dec 2005 13:30				
			Laboratory Sample ID :	EP0501855-001				
Analyte	**CAS number**	**LOR**	**Units**					
EK058G: Nitrate as N by Discrete Analyser								
Nitrate as N	14797-55-8	0.010	mg/L	66.8				
EK059G: NOX as N by Discrete Analyser								
Nitrite + Nitrate as N		0.010	mg/L	66.8				
EK061: Total Kjeldahl Nitrogen (TKN)								
Total Kjeldahl Nitrogen as N		0.1	mg/L	0.4				
EK067G: Total Phosphorous-As P by Discrete Analyser								
Total Phosphorus as P		0.01	mg/L	<0.01				
EN055: Ionic Balance								
Total Anions		0.01	meq/L	41.4				
Total Cations		0.01	meq/L	38.6				
Ionic Balance		0.01	%	3.57				

LABORATORY REPORT COVERSHEET

DATE:	2 March 2007
TO:	Aquaterra Suite 4, 125 Melville Parade COMO WA 6152
ATTENTION:	Mr Stan Blanks
YOUR REFERENCE:	Spinifex Ridge, Job# 689, Task# D4
OUR REFERENCE:	10420
SAMPLES RECEIVED:	16/01/2007
SAMPLES/QUANTITY:	15 Waters

The above samples were received intact and analysed according to your instructions. Unless otherwise stated, solid samples are reported on a dry weight basis and liquid samples as received.
Antimony testwork was subcontracted to SGS Minerals Services, report no. WM098953

PETER KEYTE
Business Manager

LARRY FAWELL
ICP Spectroscopist

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SGS Australia Pty Ltd ABN 44 000 964 278 | Environmental Services t +61 (0)8 9458 7278 | 52 Murray Road f +61 (0)8 9451 3505 | Welshpool 6106 | Western Australia | www.au.sgs.com

Member of the SGS Group

CLIENT: Aquaterra **OUR REFERENCE:** 10420

PROJECT: Spinifex Ridge, Job# 689, Task# D4

LABORATORY REPORT

Your Reference Our Reference	Units	SRWB004A (S) 10420-1	SRWB004 (D) 10420-2	SRWB005A (S) 10420-3	SRWB005 (D) 10420-4	SRWB006A (S) 10420-5
pH	pH Units	8.1	8.2	8.3	8.2	8.3
Conductivity @25°C	µS/cm	1,200	1,700	1,300	1,400	1,800
TDS (Calculated)	mg/L	700	1,000	760	850	1,100
Sodium, Na	mg/L	120	240	190	210	260
Potassium, K	mg/L	1.6	4.7	2.0	3.0	2.9
Calcium, Ca	mg/L	45	54	45	46	48
Magnesium, Mg	mg/L	66	53	41	43	54
Hardness (as $CaCO_3$)	mg/L	380	360	280	290	340
Iron, Fe	mg/L	0.56	0.24	0.24	0.72	0.16
Chloride, Cl	mg/L	100	260	160	200	260
Bicarbonate, HCO_3	mg/L	550	510	470	480	570
Carbonate, CO_3	mg/L	<1	<1	<1	<1	<1
Sulphate, SO_4	mg/L	42	83	54	58	71
Nitrate, NO_3	mg/L	8.6	<0.2	0.96	<0.2	4.3
Fluoride, F	mg/L	0.8	0.8	1.3	1.3	1.6
Free Cyanide	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Aluminium, Al	mg/L	0.39	0.16	0.20	0.03	0.12
Arsenic, As	mg/L	0.033	0.031	0.032	0.006	0.035
Manganese, Mn	mg/L	0.093	0.081	0.041	0.28	0.070
Lead, Pb	mg/L	<0.005	<0.005	<0.005	<0.005	<0.005
Cadmium, Cd	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Sediment	n/a	None	Slight	None	None	None
Odour	n/a	None	None	None	None	None
Colour	n/a	None	None	None	None	None
Turbidity	n/a	None	Slight	None	None	None

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CLIENT: Aquaterra **OUR REFERENCE:** 10420
PROJECT: Spinifex Ridge, Job# 689, Task# D4

LABORATORY REPORT

Your Reference Our Reference	Units	SRWB006 (D) 10420-6	SRWB007 (S) 10420-7	SRWB008B (S) 10420-8	SRWB009A (S) 10420-9	SRWB009 (D) 10420-10
pH	pH Units	8.2	8.4	8.3	8.3	8.3
Conductivity @25°C	µS/cm	1,700	1,800	2,000	2,100	2,100
TDS (Calculated)	mg/L	1,000	1,100	1,200	1,300	1,300
Sodium, Na	mg/L	320	290	280	340	340
Potassium, K	mg/L	8.5	2.9	3.7	5.6	9.8
Calcium, Ca	mg/L	52	36	49	49	51
Magnesium, Mg	mg/L	47	45	75	65	57
Hardness (as $CaCO_3$)	mg/L	320	270	430	390	360
Iron, Fe	mg/L	0.20	0.37	0.19	0.04	0.68
Chloride, Cl	mg/L	280	250	300	330	350
Bicarbonate, HCO_3	mg/L	460	600	610	610	540
Carbonate, CO_3	mg/L	<1	6	<1	6	4
Sulphate, SO_4	mg/L	97	70	110	120	150
Nitrate, NO_3	mg/L	0.6	<0.2	<0.2	<0.2	<0.2
Fluoride, F	mg/L	1.8	2.1	1.3	1.4	1.4
Free Cyanide	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Aluminium, Al	mg/L	0.13	0.31	0.11	0.03	0.42
Arsenic, As	mg/L	0.11	0.037	0.019	0.021	0.0098
Manganese, Mn	mg/L	0.12	0.052	0.013	0.006	0.13
Lead, Pb	mg/L	<0.005	<0.005	<0.005	<0.005	<0.005
Cadmium, Cd	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Sediment	n/a	None	None	None	None	Slight
Odour	n/a	None	None	None	None	None
Colour	n/a	None	None	None	None	None
Turbidity	n/a	None	None	None	None	Slight

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CLIENT: Aquaterra **OUR REFERENCE:** 10420

PROJECT: Spinifex Ridge, Job# 689, Task# D4

LABORATORY REPORT

Your Reference Our Reference	Units	SRWB010A (S) 10420-11	SRWB010 (D) 10420-12	TDRC006 10420-13	TDRC010 10420-14	TDRC013 10420-15
pH	pH Units	8.3	8.4	8.2	8.2	8.1
Conductivity @25°C	µS/cm	1,900	2,000	1,700	1,700	1,600
TDS (Calculated)	mg/L	1,100	1,200	1,000	1,000	940
Sodium, Na	mg/L	310	350	270	230	190
Potassium, K	mg/L	4.6	12	2.7	2.1	3.0
Calcium, Ca	mg/L	39	39	57	49	65
Magnesium, Mg	mg/L	54	37	55	66	74
Hardness (as $CaCO_3$)	mg/L	320	250	370	390	460
Iron, Fe	mg/L	0.04	0.37	0.12	0.76	0.06
Chloride, Cl	mg/L	260	310	320	250	240
Bicarbonate, HCO_3	mg/L	600	540	440	500	500
Carbonate, CO_3	mg/L	6	6	<1	<1	<1
Sulphate, SO_4	mg/L	89	130	110	82	87
Nitrate, NO_3	mg/L	0.6	<0.2	4.4	19	20
Fluoride, F	mg/L	2.0	1.7	0.9	1.2	1.0
Free Cyanide	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Aluminium, Al	mg/L	0.04	0.26	0.09	0.35	0.04
Arsenic, As	mg/L	0.036	0.006	0.005	0.002	0.001
Manganese, Mn	mg/L	<0.005	0.24	0.013	0.036	0.007
Lead, Pb	mg/L	<0.005	<0.005	<0.005	<0.005	<0.005
Cadmium, Cd	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Sediment	n/a	None	Slight	None	None	None
Odour	n/a	None	None	None	None	None
Colour	n/a	None	None	None	None	None
Turbidity	n/a	None	None	None	None	None

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PROJECT: Spinifex Ridge, Job# 689, Task# D4

LABORATORY REPORT

Your Reference Our Reference	Units	SRWB004A (S) 10420-1	SRWB004 (D) 10420-2	SRWB005A (S) 10420-3	SRWB005 (D) 10420-4	SRWB006A (S) 10420-5
Nitrite-Nitrogen, NO_2-N	mg/L	<0.005	<0.005	<0.005	<0.005	<0.005
Silver, Ag	mg/L	<0.004	<0.004	<0.004	<0.004	<0.004
Barium, Ba	mg/L	0.030	0.062	0.019	0.044	0.065
Selenium, Se	mg/L	<0.005	<0.005	<0.005	<0.005	<0.005
Mercury, Hg	mg/L	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Boron, B	mg/L	0.3	0.4	0.3	0.3	0.4
Molybdenum, Mo	mg/L	0.04	0.13	0.15	0.08	0.17
Nickel,Ni	mg/L	0.01	0.006	0.005	<0.005	0.006
Copper, Cu	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Zinc, Zn	mg/L	0.03	0.12	0.03	0.06	0.04
Hexavalent Chromium #	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Ammonia Nitrogen NH_3-N	mg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Antimony, Sb #	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002
Bromide, Br	mg/L	0.5	0.7	0.8	0.5	0.8
Hydrogen Sulphide,H_2S #	mg/L	1.6	1.6	1.0	1.0	1.6

Your Reference Our Reference	Units	SRWB006 (D) 10420-6	SRWB007 (S) 10420-7	SRWB008B (S) 10420-8	SRWB009A (S) 10420-9	SRWB009 (D) 10420-10
Nitrite-Nitrogen, NO_2-N	mg/L	<0.005	<0.005	<0.005	<0.005	<0.005
Silver, Ag	mg/L	<0.004	<0.004	<0.004	<0.004	<0.004
Barium, Ba	mg/L	0.072	0.018	0.033	0.062	0.090
Selenium, Se	mg/L	<0.005	<0.005	<0.005	<0.005	<0.005
Mercury, Hg	mg/L	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Boron, B	mg/L	0.8	0.5	0.5	0.5	0.6
Molybdenum, Mo	mg/L	0.05	0.22	0.13	0.13	0.13
Nickel,Ni	mg/L	0.006	0.005	0.02	0.008	0.03
Copper, Cu	mg/L	<0.01	<0.01	<0.01	<0.01	0.01
Zinc, Zn	mg/L	0.04	0.03	0.04	0.04	0.07
Hexavalent Chromium #	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Ammonia Nitrogen NH_3-N	mg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Antimony, Sb #	mg/L	<0.002	<0.002	<0.002	<0.002	0.004
Bromide, Br	mg/L	1.1	0.9	0.98	0.94	1.4
Hydrogen Sulphide,H_2S #	mg/L	1.6	1.3	0.8	0.9	1.2

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CLIENT: Aquaterra **OUR REFERENCE:** 10420
PROJECT: Spinifex Ridge, Job# 689, Task# D4

LABORATORY REPORT

Your Reference Our Reference	Units	SRWB010A (S) 10420-11	SRWB010 (D) 10420-12	TDRC006 10420-13	TDRC010 10420-14	TDRC013 10420-15
Nitrite-Nitrogen, NO_2-N	mg/L	<0.005	<0.005	<0.005	0.007	<0.005
Silver, Ag	mg/L	<0.004	<0.004	<0.004	<0.004	<0.004
Barium, Ba	mg/L	0.029	0.12	0.10	0.15	0.18
Selenium, Se	mg/L	<0.005	<0.005	<0.005	<0.005	<0.005
Mercury, Hg	mg/L	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Boron, B	mg/L	0.5	0.5	0.5	0.4	0.3
Molybdenum, Mo	mg/L	0.17	0.18	0.04	0.02	<0.01
Nickel,Ni	mg/L	0.007	0.01	<0.005	0.03	<0.005
Copper, Cu	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Zinc, Zn	mg/L	0.05	0.12	0.05	0.03	0.03
Hexavalent Chromium #	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Ammonia Nitrogen NH_3-N	mg/L	<0.1	0.9	<0.1	<0.1	<0.1
Antimony, Sb #	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002
Bromide, Br	mg/L	0.6	1.3	1.1	0.9	1.1
Hydrogen Sulphide,H_2S #	mg/L	0.9	0.8	0.8	0.6	0.6

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CLIENT: Aquaterra **OUR REFERENCE:** 10420
PROJECT: Spinifex Ridge, Job# 689, Task# D4

LABORATORY REPORT

TEST PARAMETERS	UNITS	LOR	METHOD
Potability(Less Micro)			
pH	pH Units	0.1	AN-101
Conductivity @25°C	µS/cm	2	AN-106
TDS (Calculated)	mg/L	5	AN-106
Sodium, Na	mg/L	0.5	PEM-007
Potassium, K	mg/L	0.1	PEM-007
Calcium, Ca	mg/L	0.2	PEM-007
Magnesium, Mg	mg/L	0.1	PEM-007
Hardness (as $CaCO_3$)	mg/L	5	PEI-043
Iron, Fe	mg/L	0.02	PEM-007
Chloride, Cl	mg/L	1	PEI-020
Bicarbonate, HCO_3	mg/L	5	PEI-006
Carbonate, CO_3	mg/L	1	PEI-006
Sulphate, SO_4	mg/L	1	PEI-020
Nitrate, NO_3	mg/L	0.2	PEI-020
Fluoride, F	mg/L	0.1	PEI-027
Free Cyanide	mg/L	0.01	PEI-023
Aluminium, Al	mg/L	0.02	PEM-007
Arsenic, As	mg/L	0.001	PEM-004
Manganese, Mn	mg/L	0.005	PEM-007
Lead, Pb	mg/L	0.005	PEM-003
Cadmium, Cd	mg/L	0.001	PEM-007
Sediment	n/a		
Odour	n/a		
Colour	n/a		
Turbidity	n/a		
W003 Additional Parameters			
Nitrite-Nitrogen, NO_2-N	mg/L	0.005	PEI-061
Silver, Ag	mg/L	0.004	PEM-007
Barium, Ba	mg/L	0.005	PEM-007
Selenium, Se	mg/L	0.005	PEM-004

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CLIENT: Aquaterra **OUR REFERENCE:** 10420
PROJECT: Spinifex Ridge, Job# 689, Task# D4

LABORATORY REPORT

TEST PARAMETERS	UNITS	LOR	METHOD
Mercury, Hg	mg/L	0.0005	PEM-005
Boron, B	mg/L	0.2	PEM-007
Molybdenum, Mo	mg/L	0.01	PEM-007
Nickel,Ni	mg/L	0.005	PEM-007
Copper, Cu	mg/L	0.01	PEM-007
Zinc, Zn	mg/L	0.01	PEM-007
Hexavalent Chromium #	mg/L	0.01	PEI-036
Ammonia Nitrogen NH_3-N	mg/L	0.1	PEI-010
Antimony, Sb #	mg/L	0.002	IMS84V
Bromide, Br	mg/L	0.2	PEI-020
Hydrogen Sulphide,H_2S #	mg/L	0.1	PEI-035

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PROJECT: Spinifex Ridge, Job# 689, Task# D4

LABORATORY REPORT

QUALITY CONTROL	UNITS	Blank	Replicate Sm#	Replicate Sample||Replicate	Spike Sm#	Matrix Spike (%)
pH	pH Units	-	[NT]	[NT]	Control	-
Conductivity @25°C	µS/cm	<2	[NT]	[NT]	Control	-
TDS (Calculated)	mg/L	<5	[NT]	[NT]	Control	-
Sodium, Na	mg/L	<0.5	[NT]	[NT]	Control	112%
Potassium, K	mg/L	<0.1	[NT]	[NT]	Control	103%
Calcium, Ca	mg/L	<0.2	[NT]	[NT]	Control	94%
Magnesium, Mg	mg/L	<0.1	[NT]	[NT]	Control	102%
Hardness (as $CaCO_3$)	mg/L	5	[NT]	[NT]	Control	-
Iron, Fe	mg/L	<0.02	[NT]	[NT]	Control	96%
Chloride, Cl	mg/L	<1	[NT]	[NT]	Control	96%
Bicarbonate, HCO_3	mg/L	<5	[NT]	[NT]	Control	-
Carbonate, CO_3	mg/L	<1	[NT]	[NT]	Control	-
Sulphate, SO_4	mg/L	<1	[NT]	[NT]	Control	94%
Nitrate, NO_3	mg/L	<0.2	[NT]	[NT]	Control	-
Fluoride, F	mg/L	<0.1	[NT]	[NT]	Control	94%
Free Cyanide	mg/L	<0.01	[NT]	[NT]	Control	104%
Aluminium, Al	mg/L	<0.02	[NT]	[NT]	Control	109%
Arsenic, As	mg/L	<0.001	[NT]	[NT]	Control	96%
Manganese, Mn	mg/L	<0.005	[NT]	[NT]	Control	93%
Lead, Pb	mg/L	<0.005	[NT]	[NT]	Control	102%
Cadmium, Cd	mg/L	<0.001	[NT]	[NT]	Control	96%
Sediment	n/a	-	[NT]	[NT]	Control	-
Odour	n/a	-	[NT]	[NT]	Control	-
Colour	n/a	-	[NT]	[NT]	Control	-
Turbidity	n/a	--	[NT]	[NT]	Control	-

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PROJECT: Spinifex Ridge, Job# 689, Task# D4

LABORATORY REPORT

QUALITY CONTROL	UNITS	Blank	Replicate Sm#	Replicate Sample||Replicate	Spike Sm#	Matrix Spike (%)
Nitrite-Nitrogen, NO_2-N	mg/L	<0.005	[NT]	[NT]	Control	89%
Silver, Ag	mg/L	<0.004	[NT]	[NT]	Control	90%
Barium, Ba	mg/L	<0.005	[NT]	[NT]	Control	103%
Selenium, Se	mg/L	<0.005	[NT]	[NT]	Control	93%
Mercury, Hg	mg/L	<0.0005	[NT]	[NT]	Control	104%
Boron, B	mg/L	<0.2	[NT]	[NT]	Control	108%
Molybdenum, Mo	mg/L	<0.01	[NT]	[NT]	Control	104%
Nickel,Ni	mg/L	<0.005	[NT]	[NT]	Control	95%
Copper, Cu	mg/L	<0.01	[NT]	[NT]	Control	97%
Zinc, Zn	mg/L	<0.01	[NT]	[NT]	Control	102%
Hexavalent Chromium #	mg/L	<0.01	[NT]	[NT]	Control	-
Ammonia Nitrogen NH_3-N	mg/L	<0.1	[NT]	[NT]	Control	101%
Antimony, Sb #	mg/L	<0.002	[NT]	[NT]	Control	-
Bromide, Br	mg/L	<0.2	[NT]	[NT]	Control	75%
Hydrogen Sulphide,H_2S #	mg/L	<0.1	[NT]	[NT]	Control	-

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PROJECT: Spinifex Ridge, Job# 689, Task# D4

LABORATORY REPORT

NOTES:

LOR - Limit of Reporting.

This test is not covered by the scope of our NATA accreditation.

This document is issued in accordance
with NATA's accreditation requirements.
Accredited for compliance with ISO/IEC 17025.
NATA accredited laboratory 2562 (1705).
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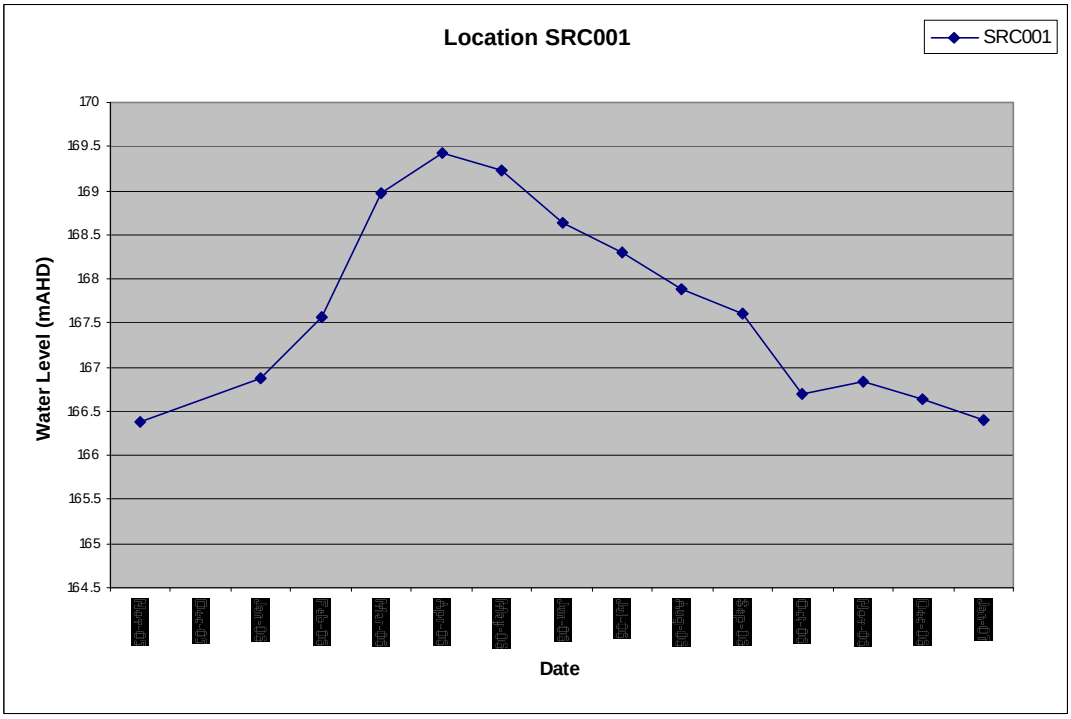
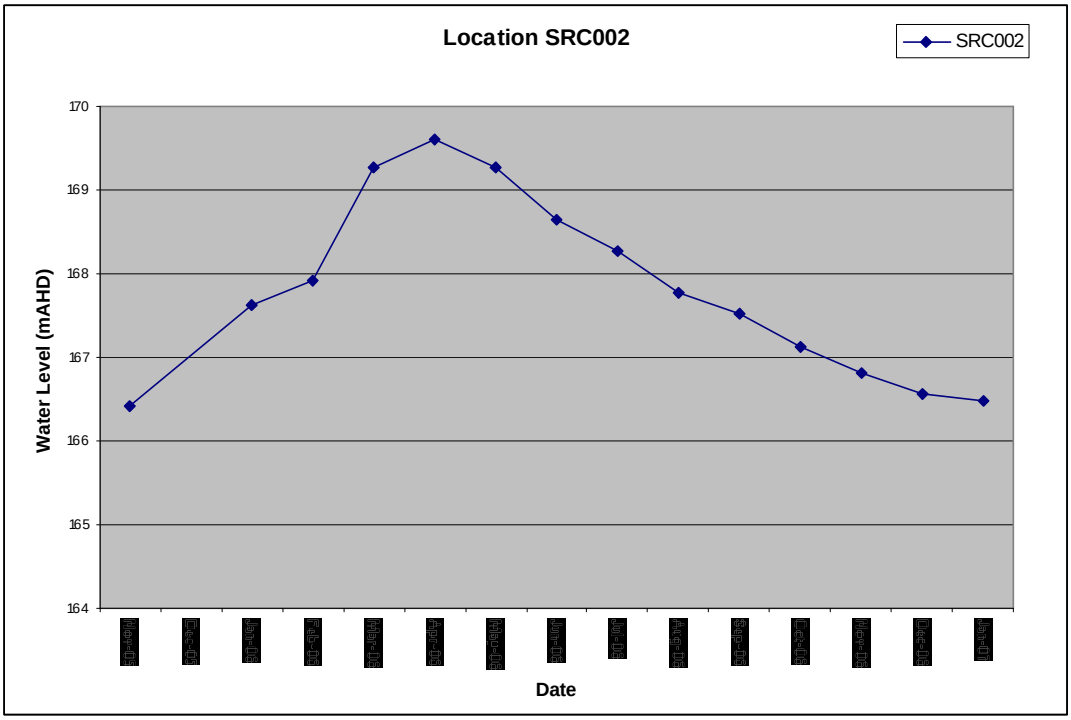
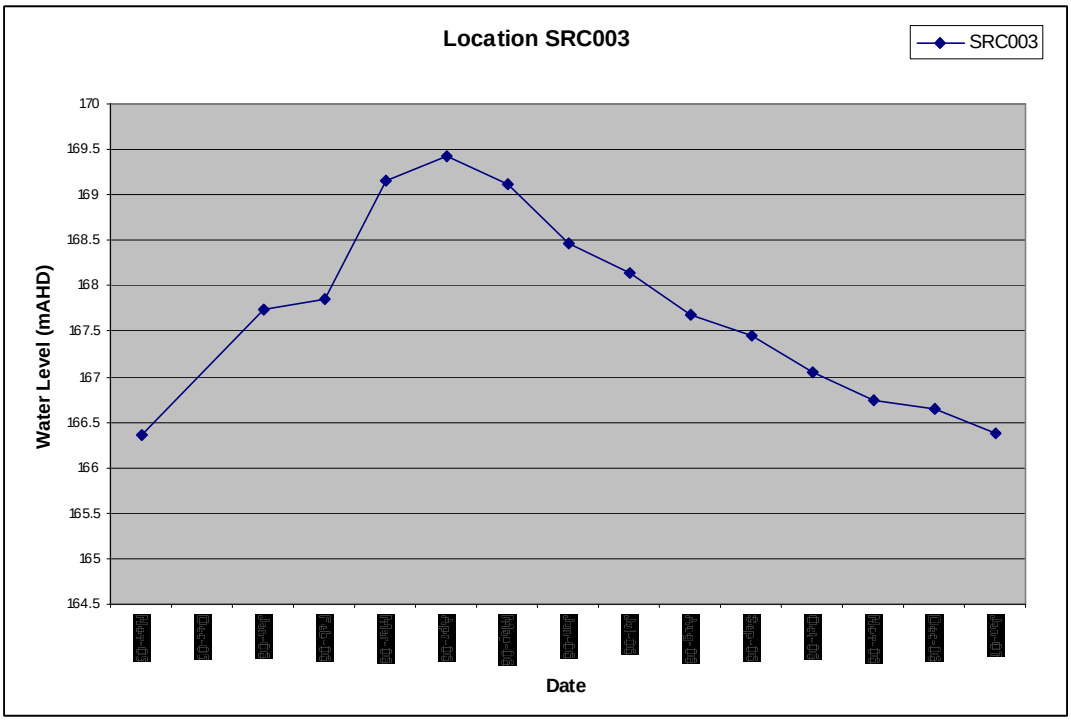
APPENDIX D

MONTHLY GROUNDWATER CONTOURS


Location SRC001
SRC001
Water Level (mAHD)
170
169.5
169
168.5
168
167.5
167
166.5
166
165.5
165
164.5
Date


Location SRC002
SRC002
Water Level (mAHD)
170
169
168
167
166
165
164
Date


Location SRC003
SRC003
Water Level (mAHD)
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169.5
169
168.5
168
167.5
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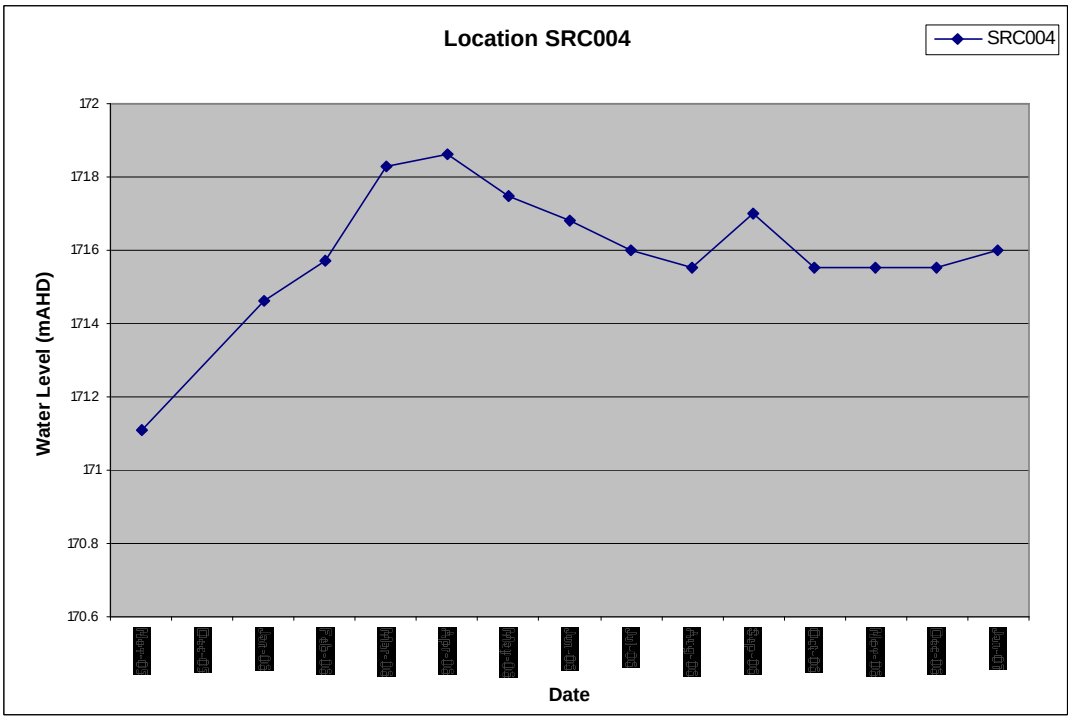
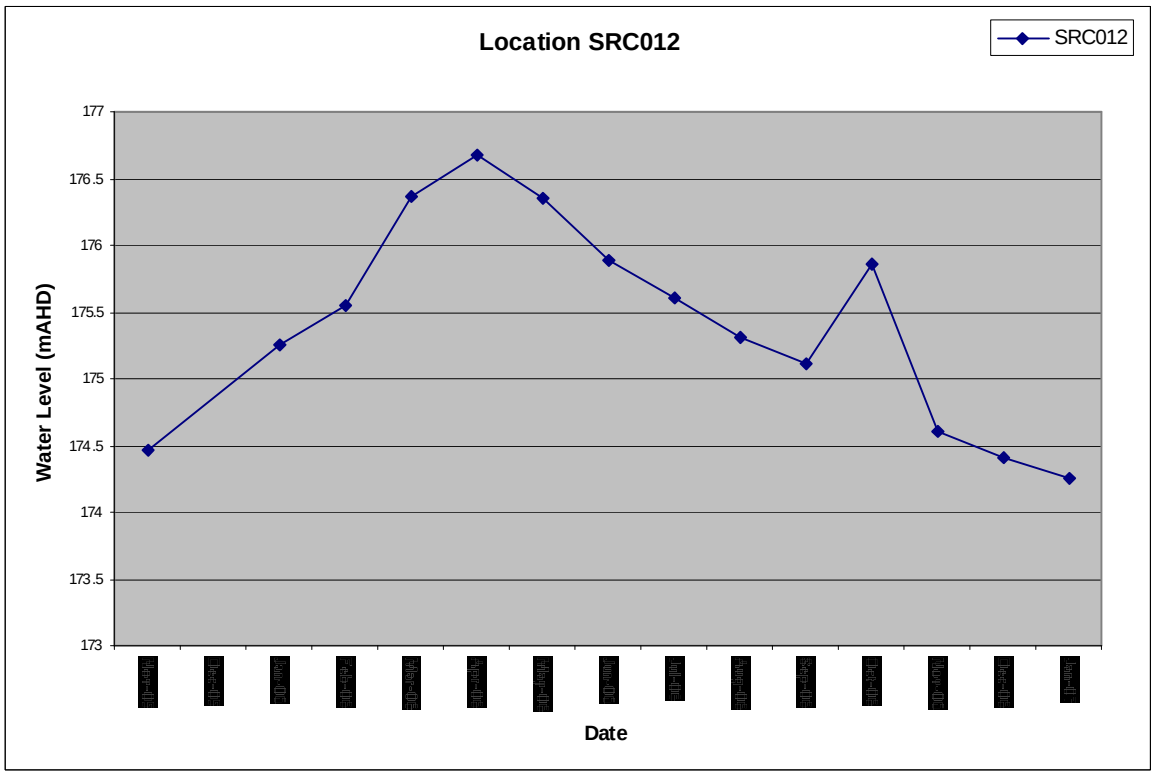
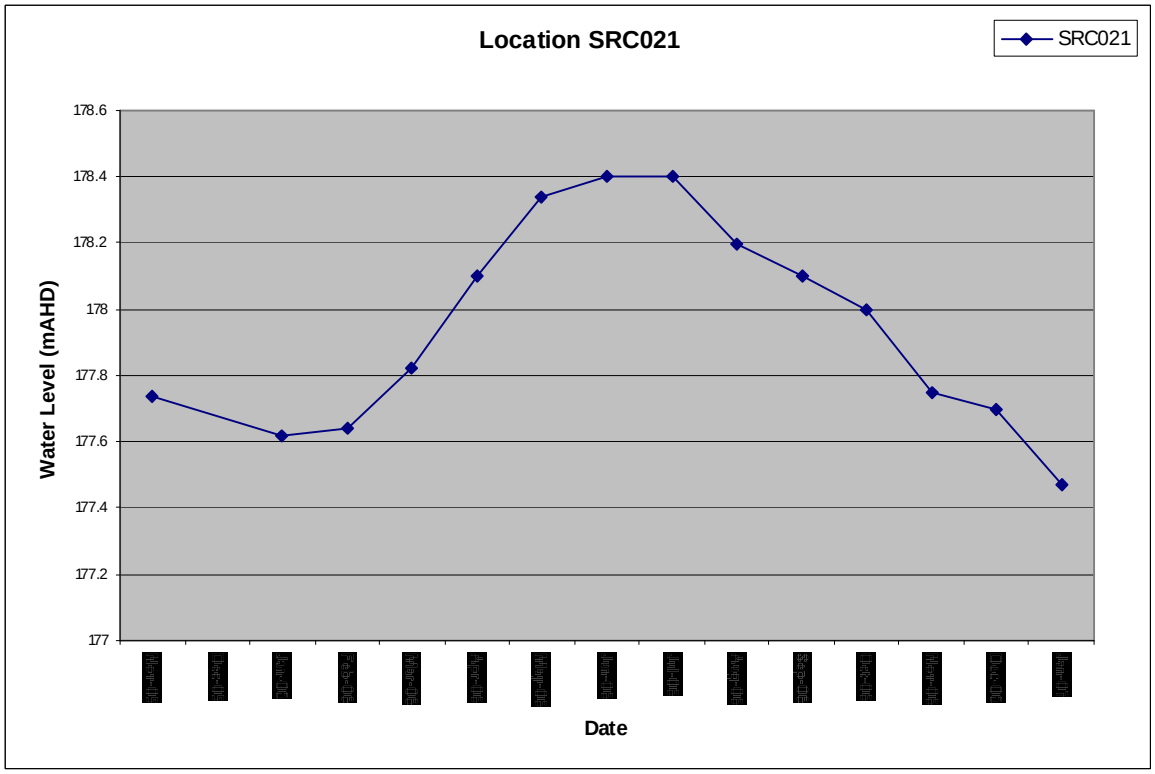
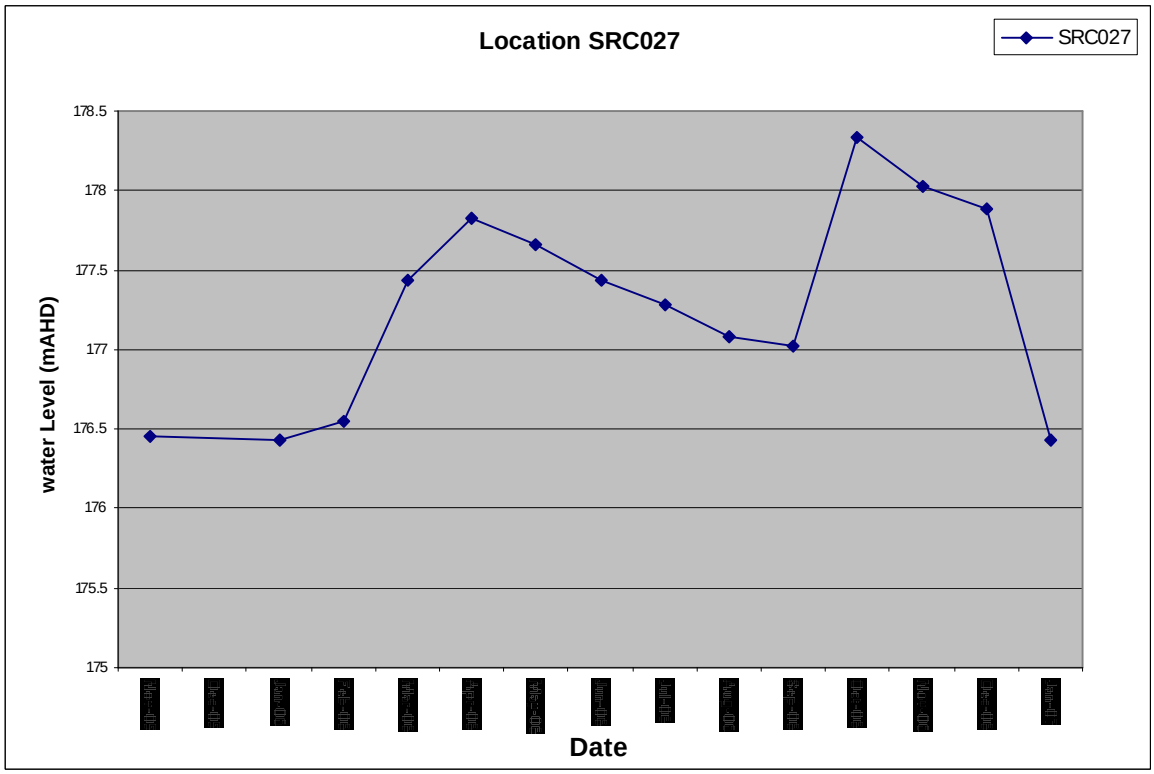
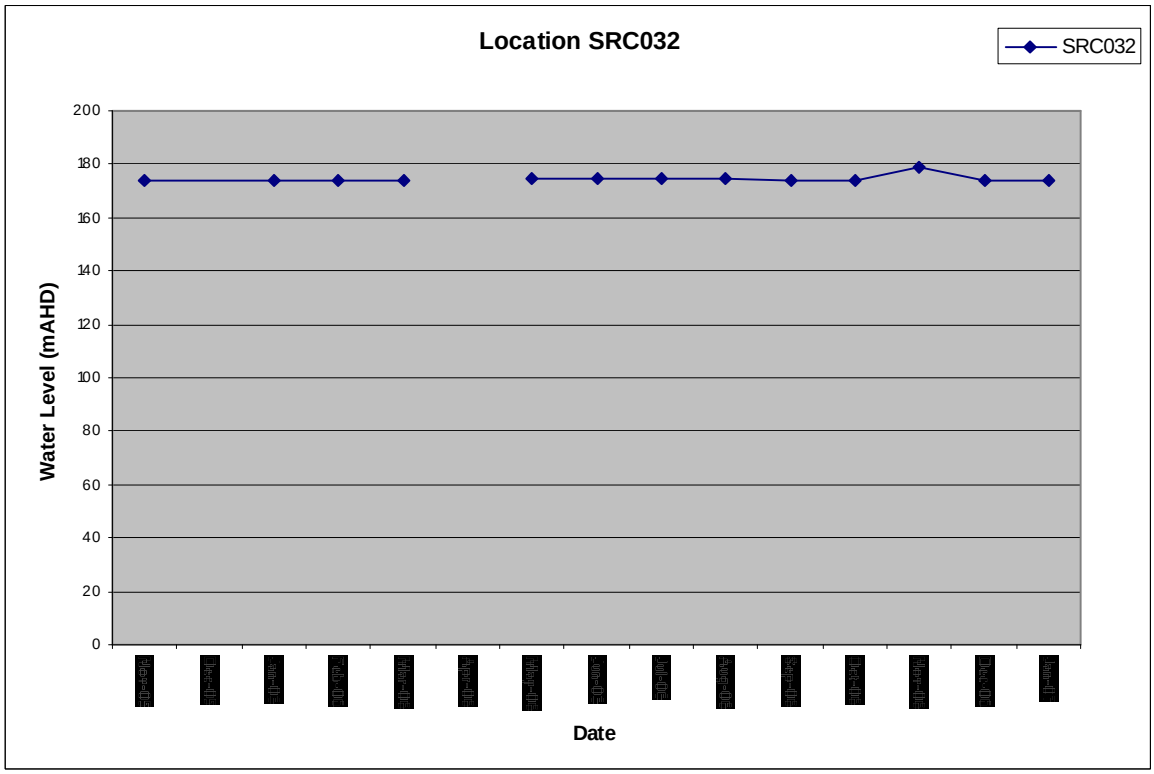
166.5
166
165.5
165
164.5
Date

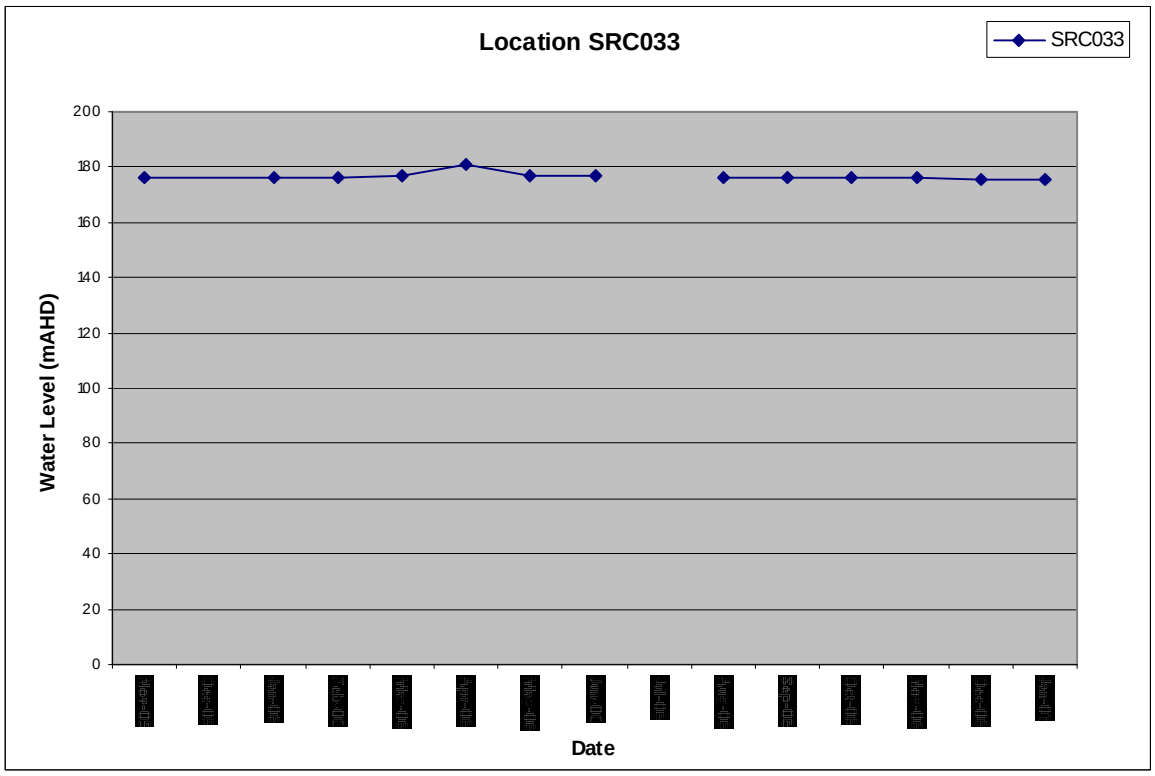

Location SRC004
SRC004
Water Level (mAHD)
172
1718
1716
1714
1712
171
170.8
170.6
Date


Location SRC012
SRC012
Water Level (mAHD)
177
176.5
176
175.5
175
174.5
174
173.5
173
Date


Location SRC021
SRC021
Water Level (mAHD)
178.6
178.4
178.2
178
177.8
177.6
177.4
177.2
177
Date


Location SRC027
SRC027
178.5
178
177.5
177
176.5
176
175.5
175
water Level (mAHD)
Date


Location SRC032
SRC032
200
180
160
140
120
100
80
60
40
20
0
Water Level (mAHD)
Date


Location SRC033
SRC033
Water Level (mAHD)
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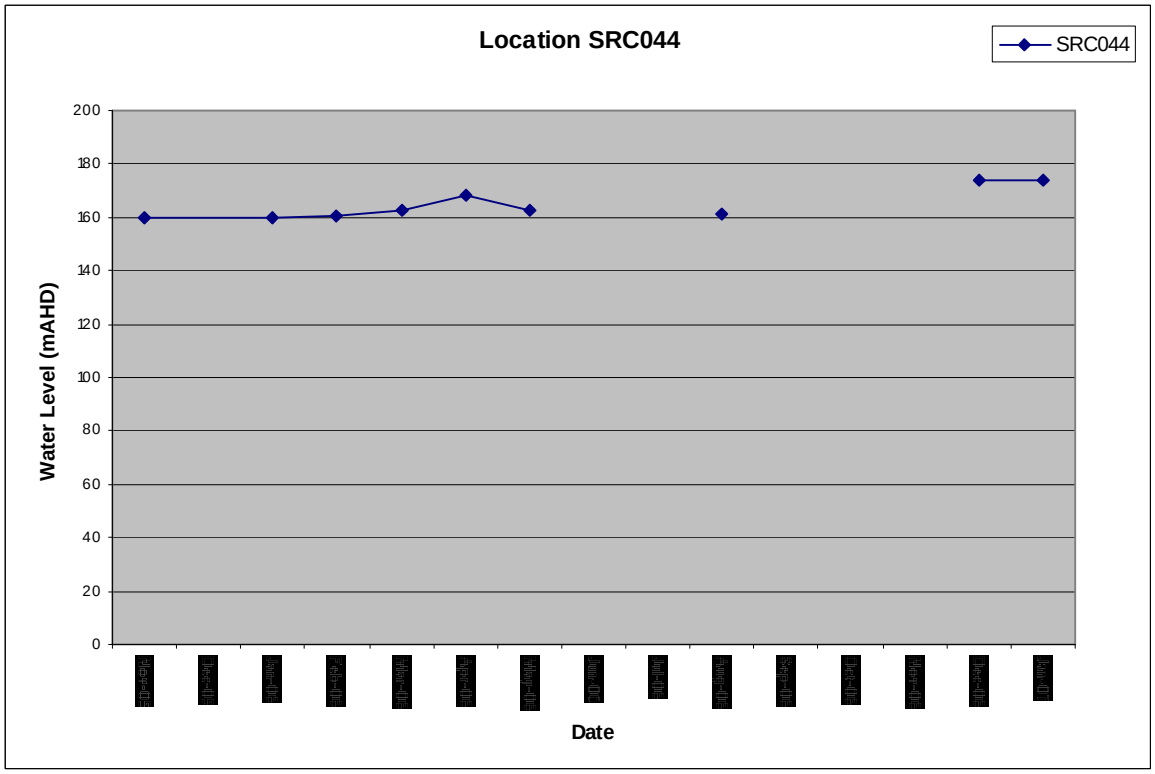
180
160
140
120
100
80
60
40
20
0
Date


Location SRC044
SRC044
Water Level (mAHD)
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180
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120
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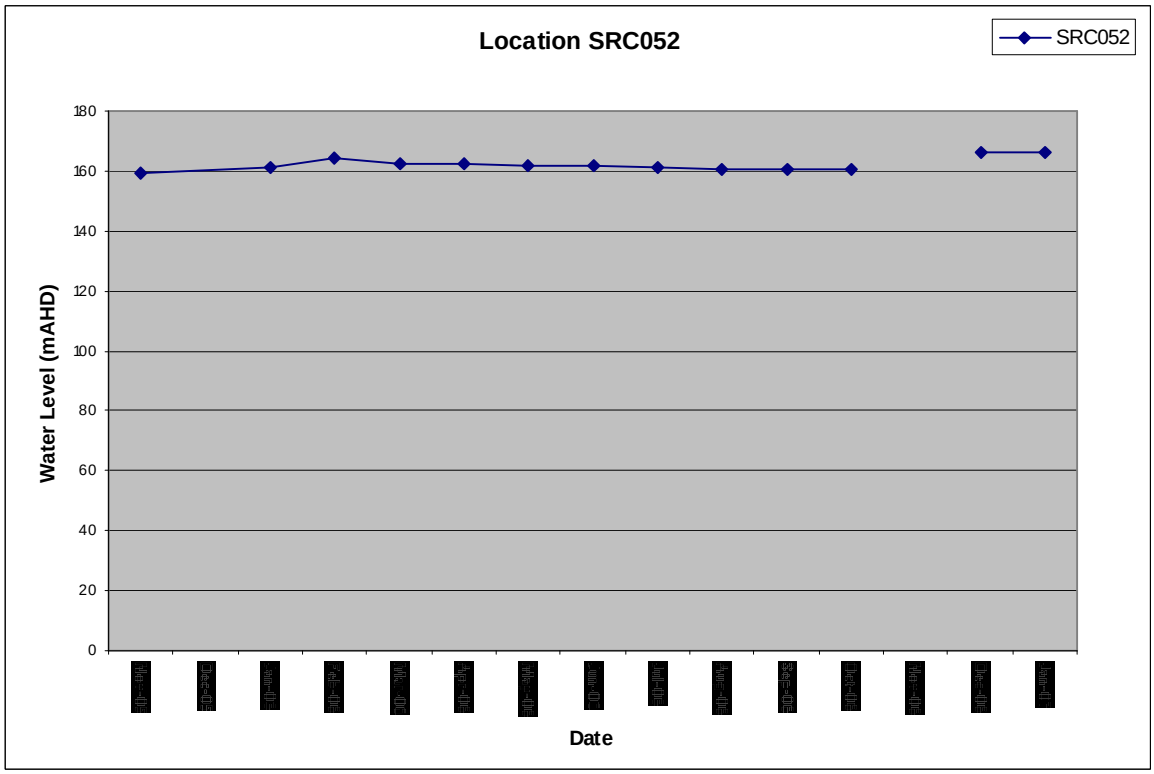
40
20
0
Date


Location SRC052
SRC052
Water Level (mAHD)
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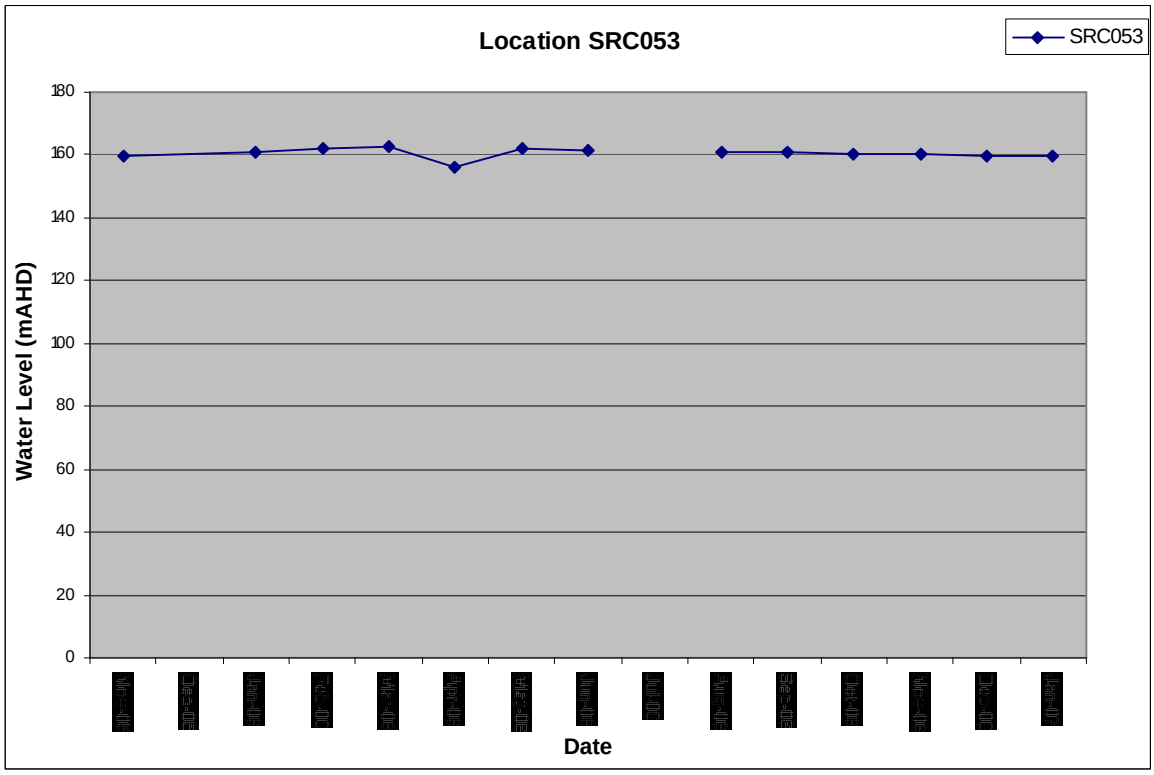
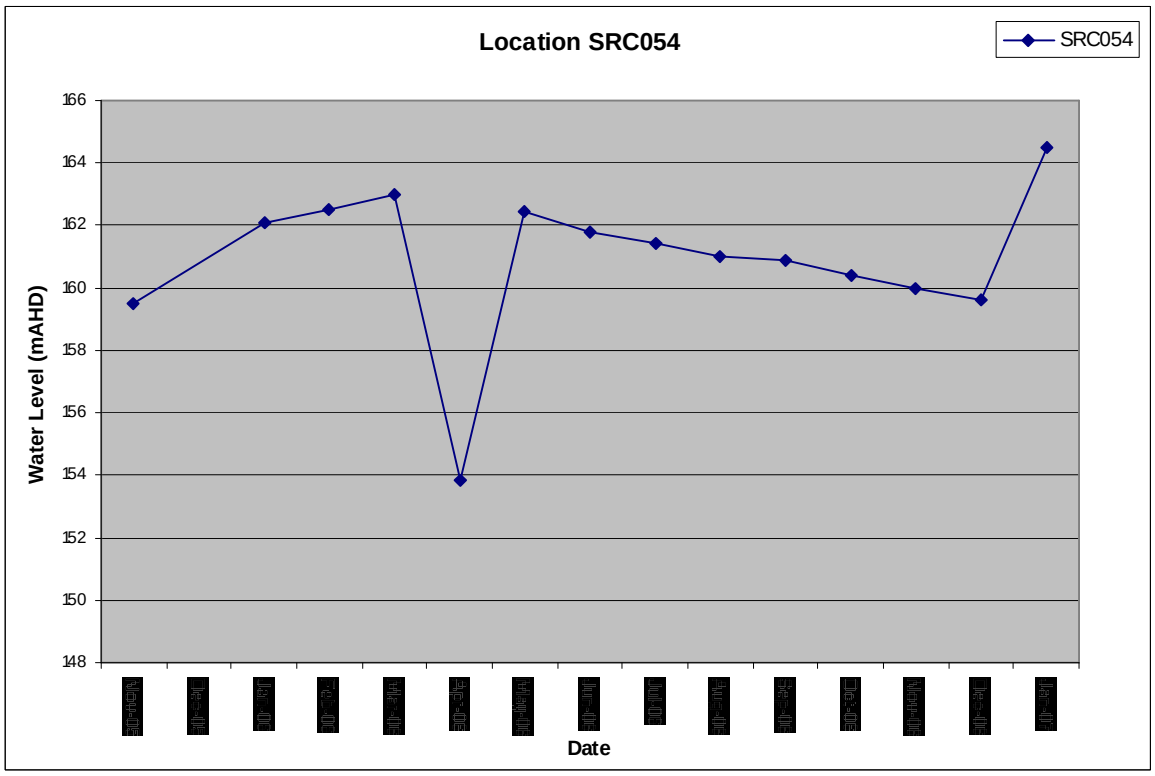
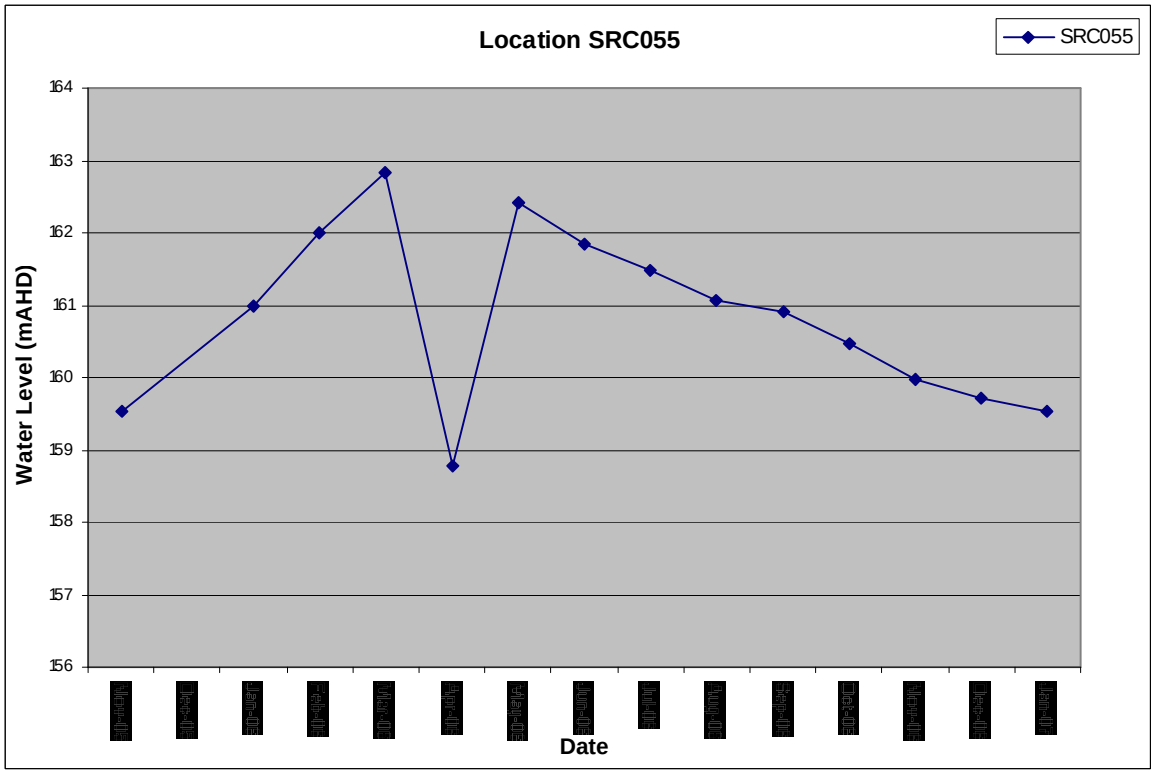
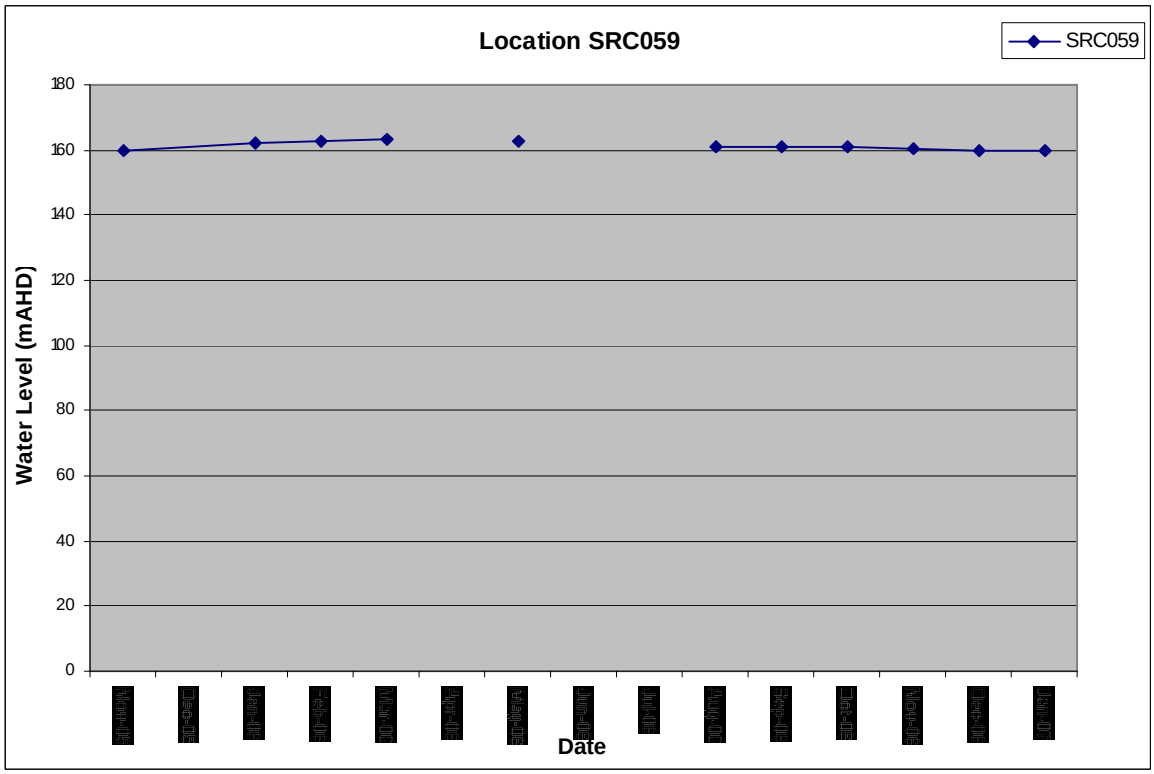
160
140
120
100
80
60
40
20
0
Date


Location SRC053
SRC053
Water Level (mAHD)
180
160
140
120
100
80
60
40
20
0
Date


Location SRC054
SRC054
Water Level (mAHD)
166
164
162
160
158
156
154
152
150
148
Date


Location SRC055
SRC055
Water Level (mAHD)
164
163
162
161
160
159
158
157
156
Date


Location SRC059
SRC059
Water Level (mAHD)
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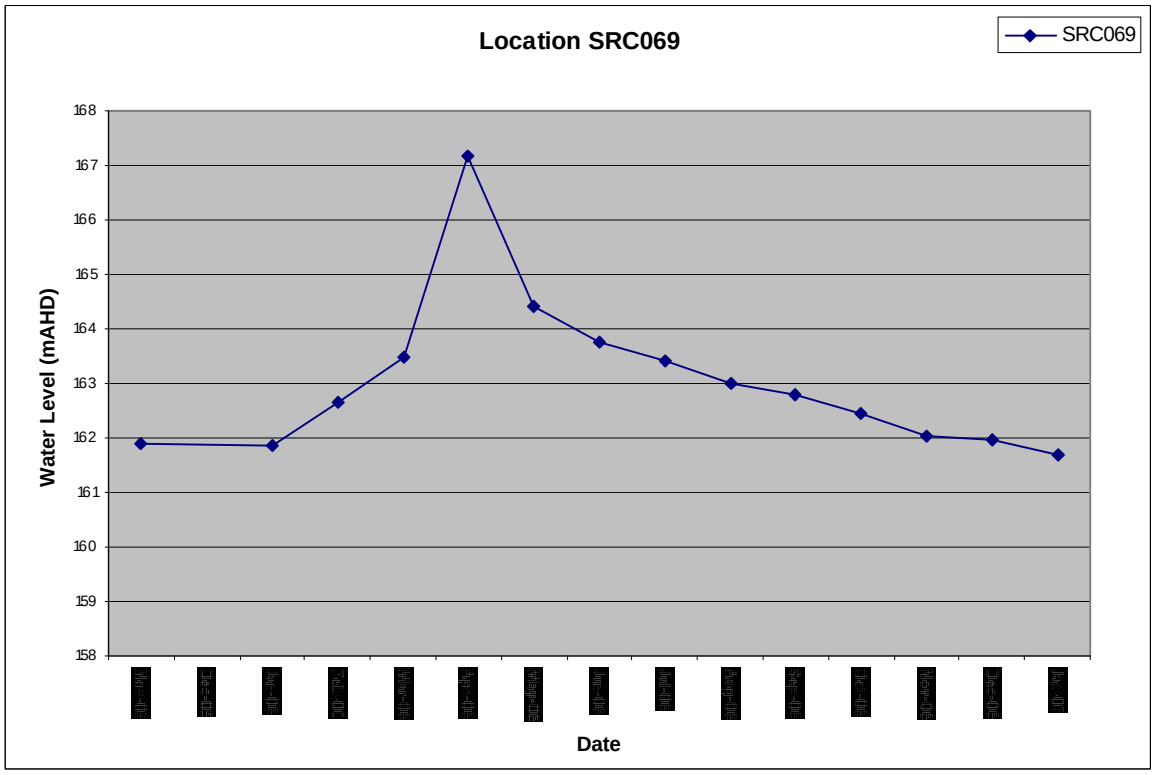
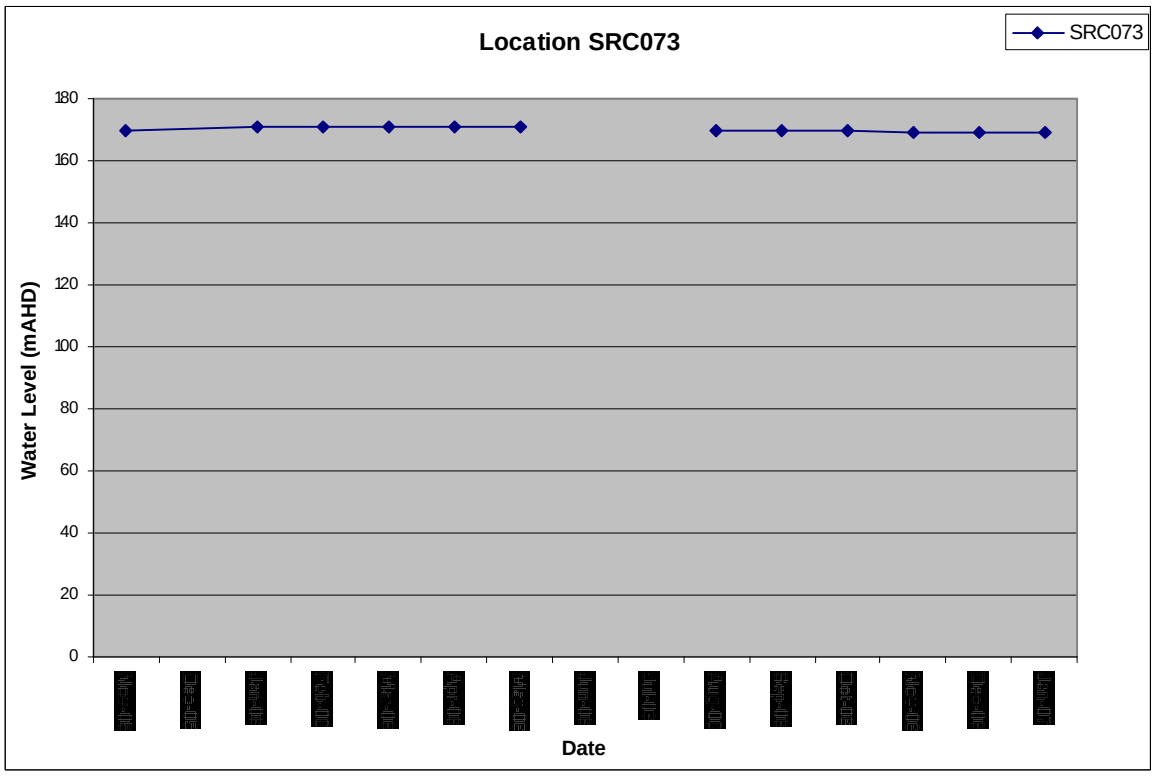
0
Date


Location SRC069
SRC069
Water Level (mAHD)
168
167
166
165
164
163
162
161
160
159
158
Date


Location SRC073
SRC073
Water Level (mAHD)
180
160
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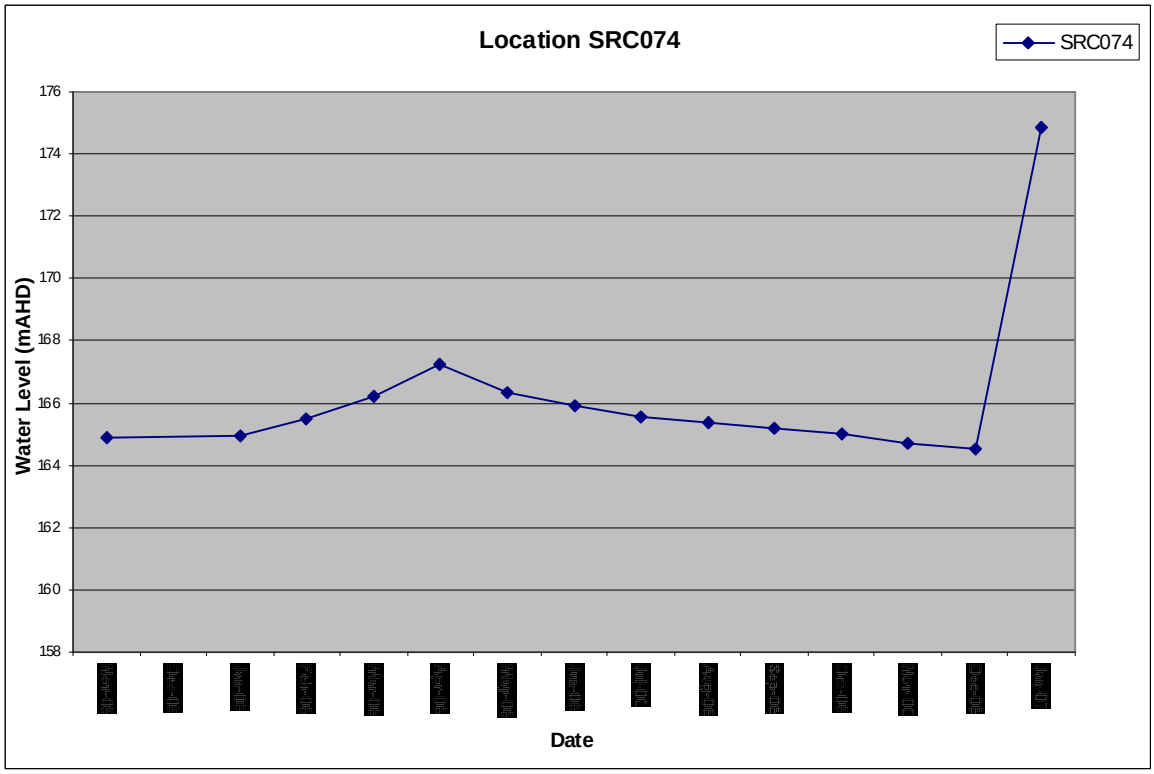
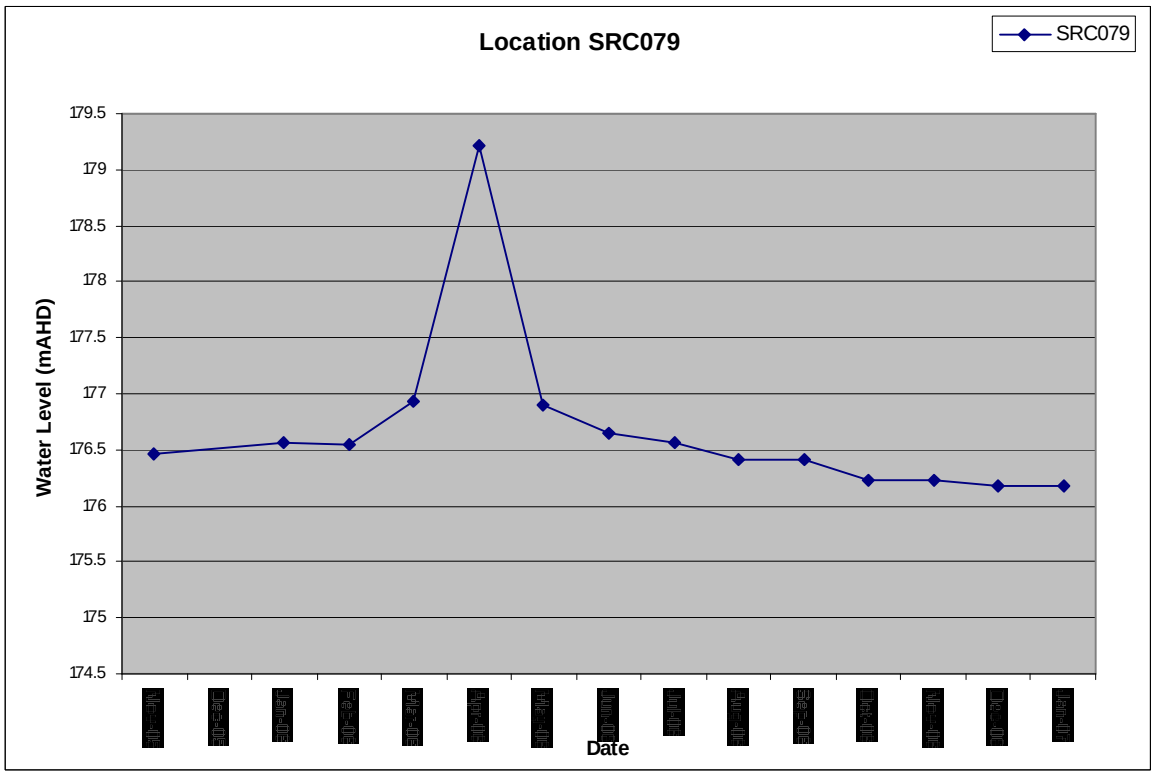
120
100
80
60
40
20
0
Date


Location SRC074
SRC074
Water Level (mAHD)
176
174
172
170
168
166
164
162
160
158
Date


Location SRC079
SRC079
Water Level (mAHD)
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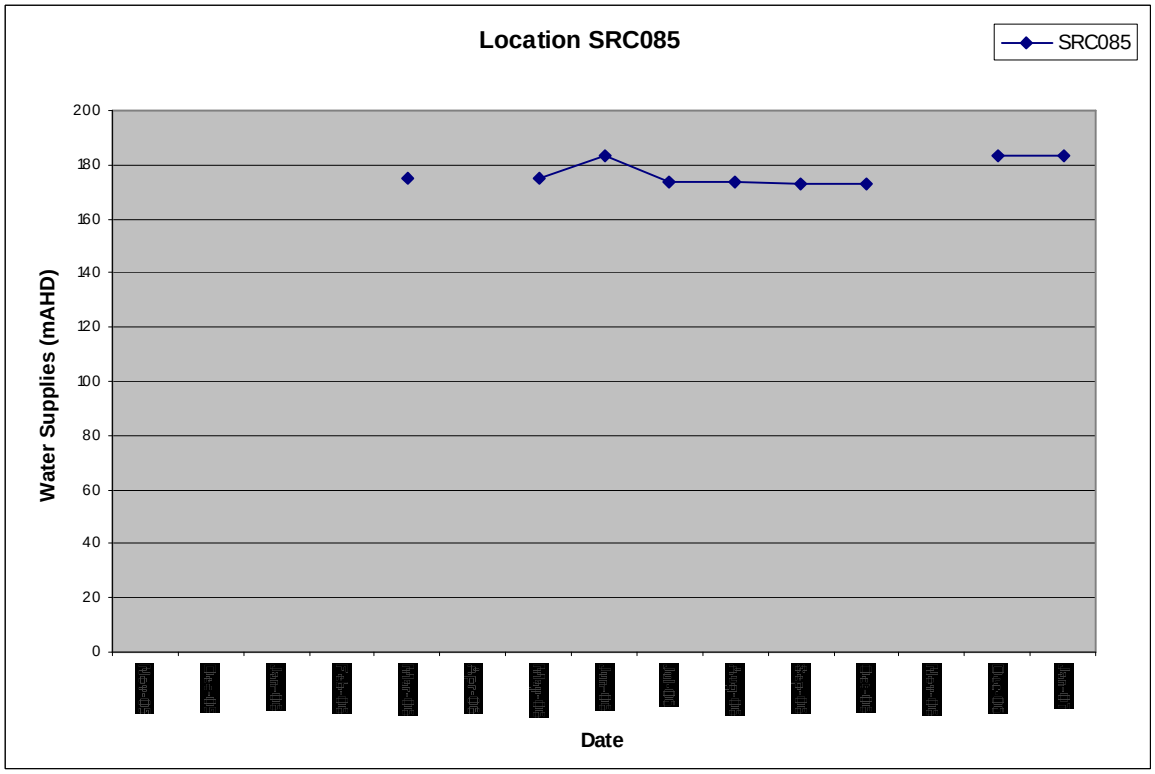
179
178.5
178
177.5
177
176.5
176
175.5
175
174.5
Date


Location SRC085
SRC085
Water Supplies (mAHD)
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120
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80
60
40
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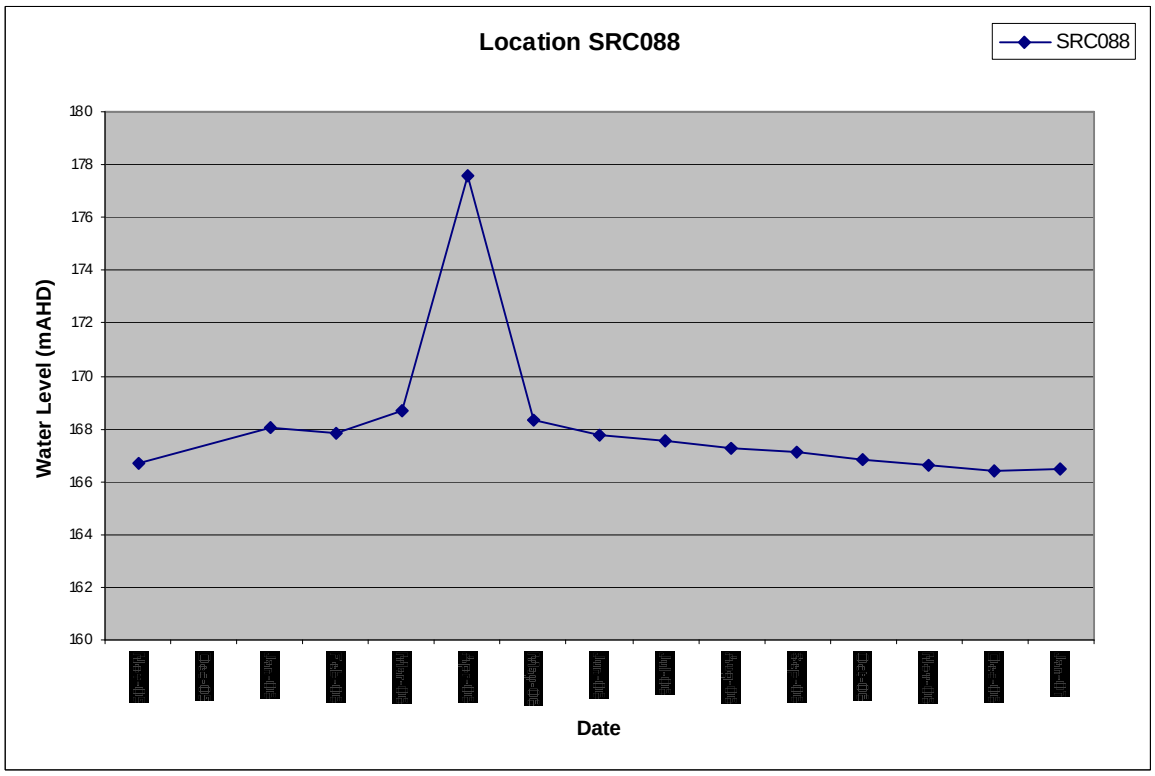
0
Date


Location SRC088
SRC088
Water Level (mAHD)
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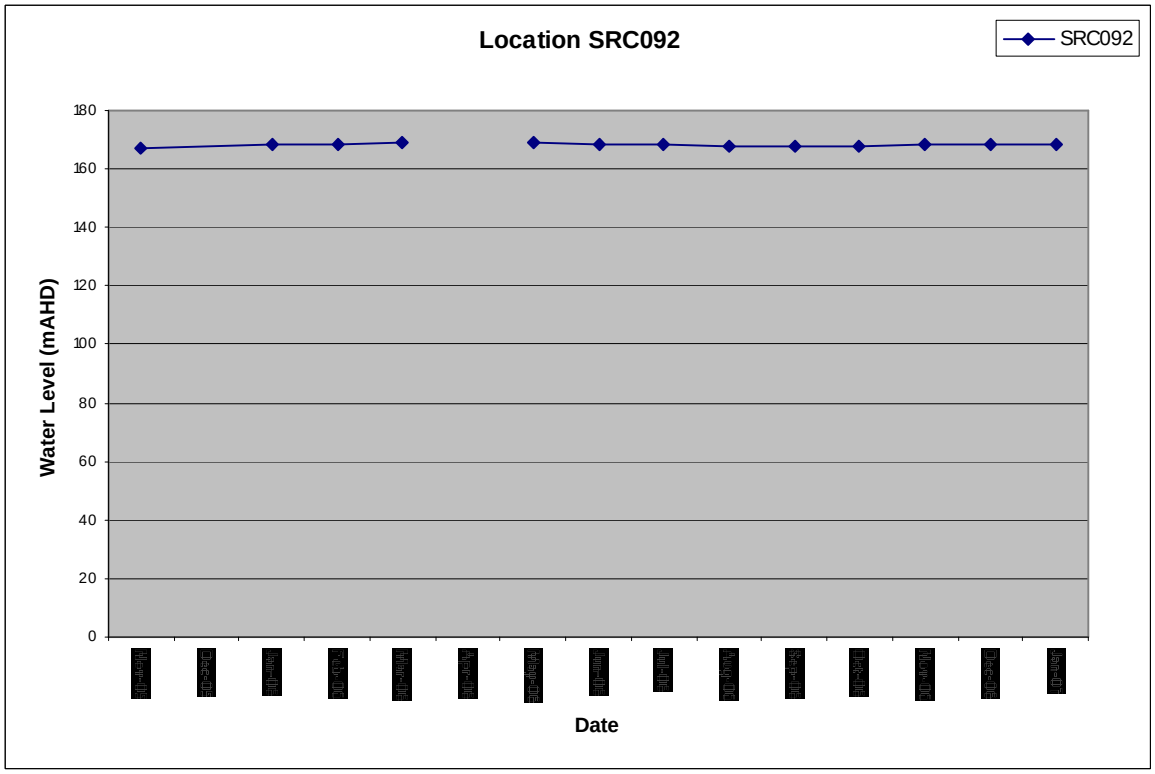
178
176
174
172
170
168
166
164
162
160
Date


Location SRC092
SRC092
Water Level (mAHD)
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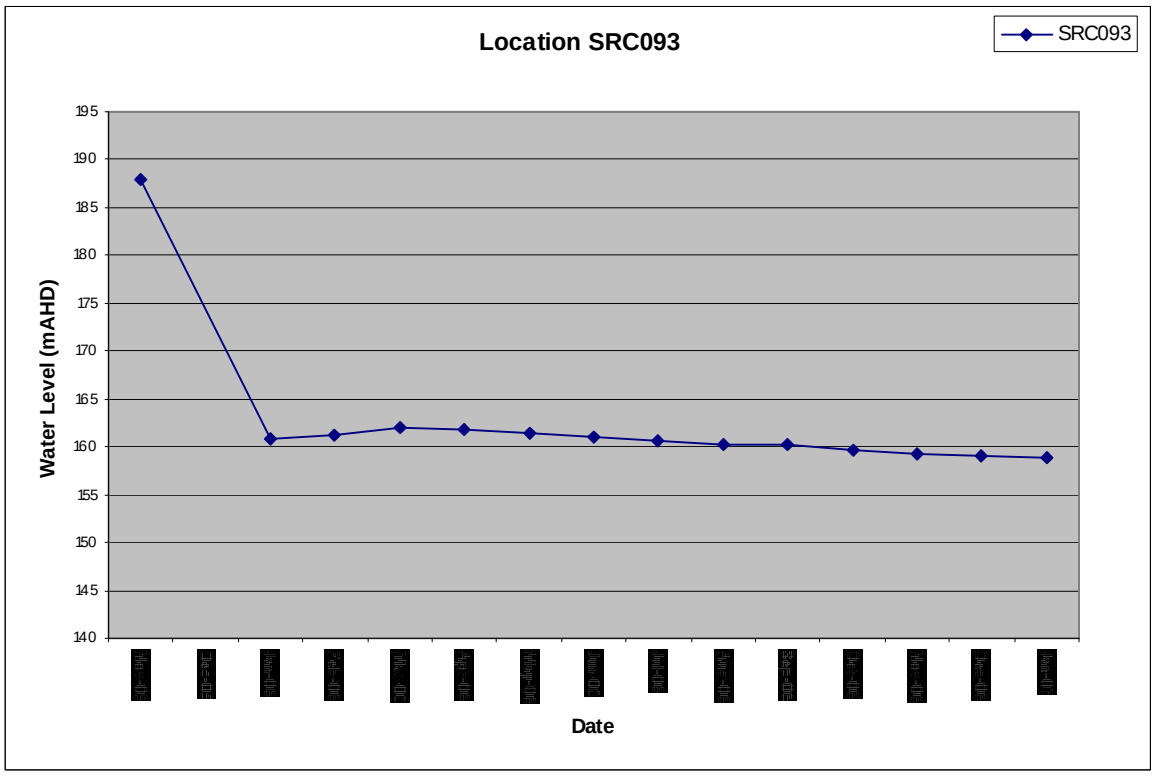
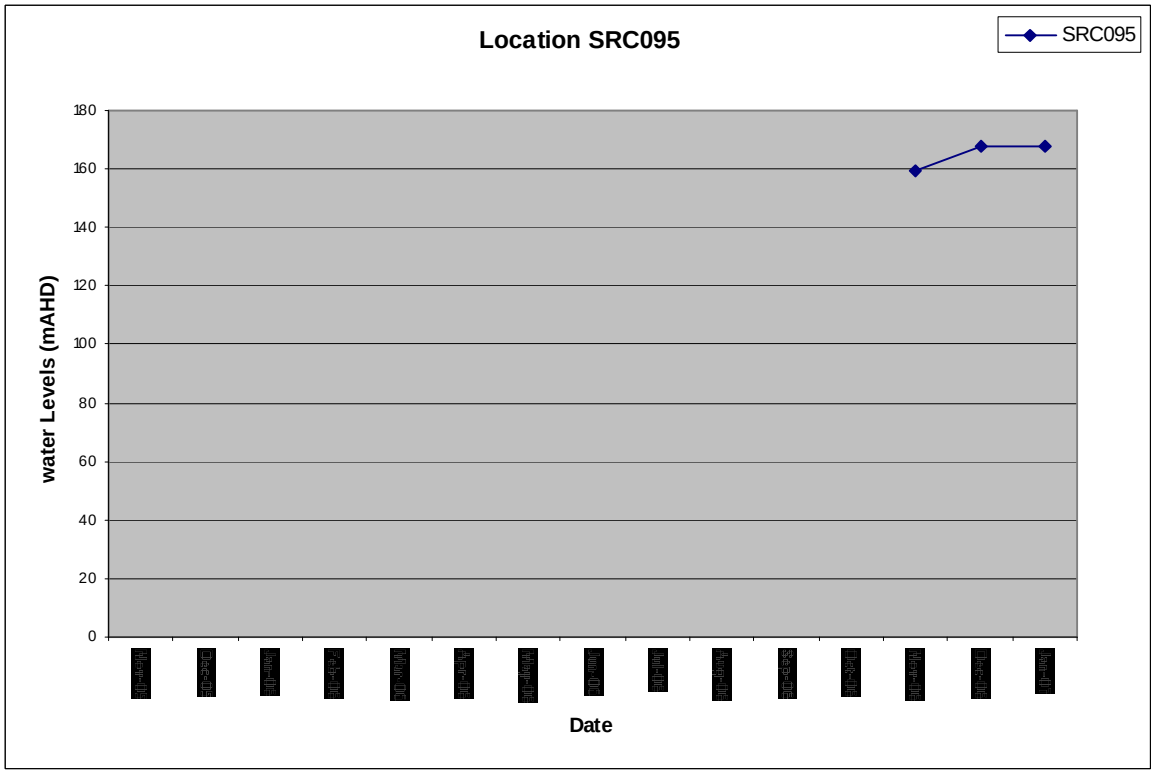
120
100
80
60
40
20
0
Date


Location SRC093
SRC093
Water Level (mAHD)
195
190
185
180
175
170
165
160
155
150
145
140
Date


Location SRC095
SRC095
water Levels (mAHD)
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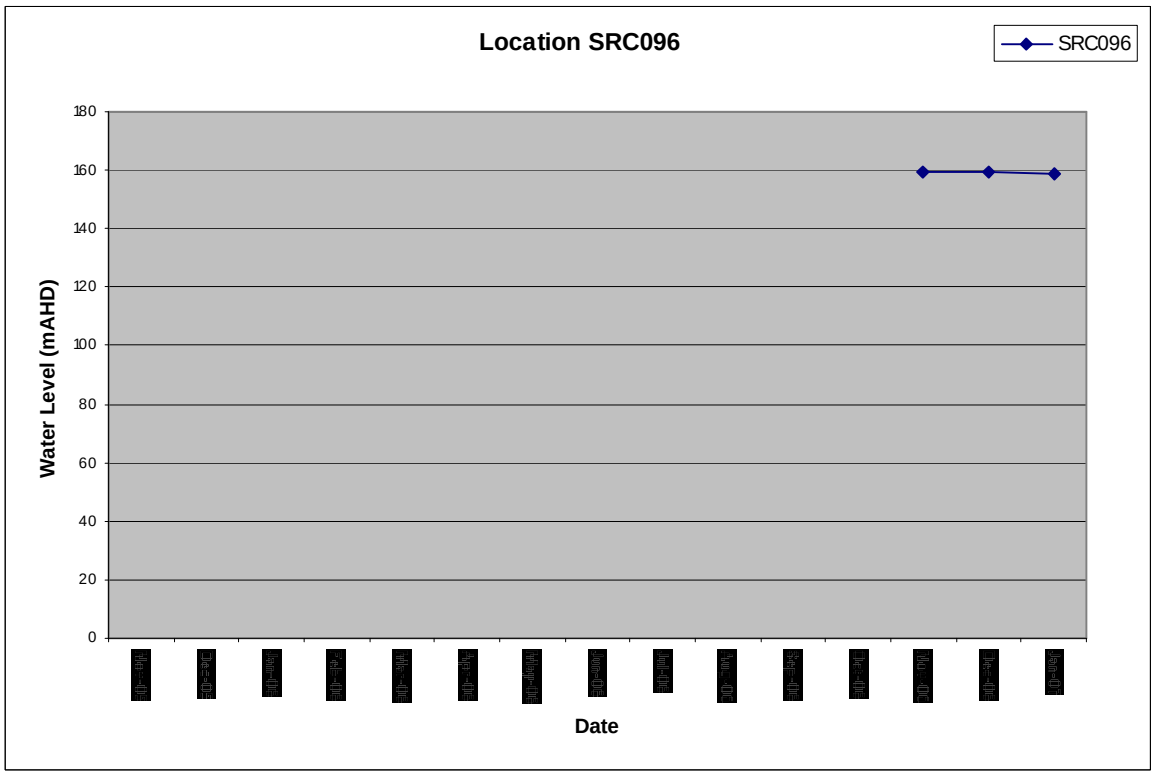
Date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SRC096
Water Level (mAHD)
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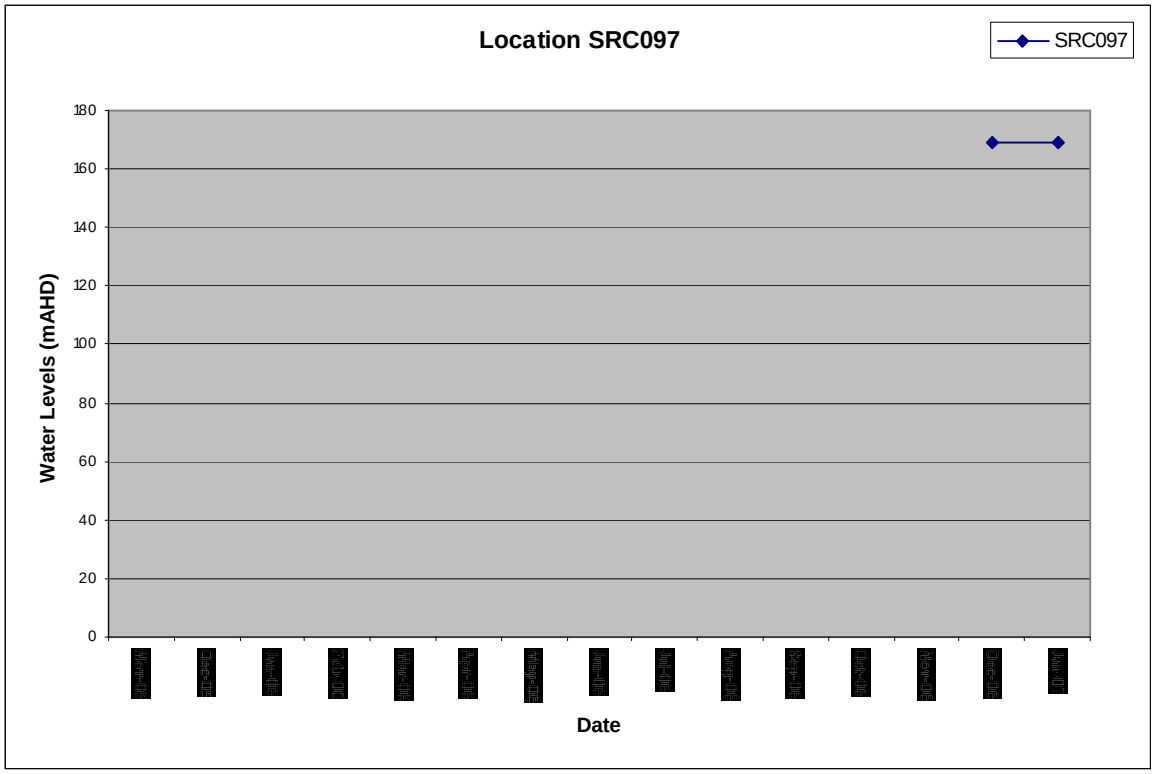
Date


Location SRC097
SRC097
Water Levels (mAHD)
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60
40
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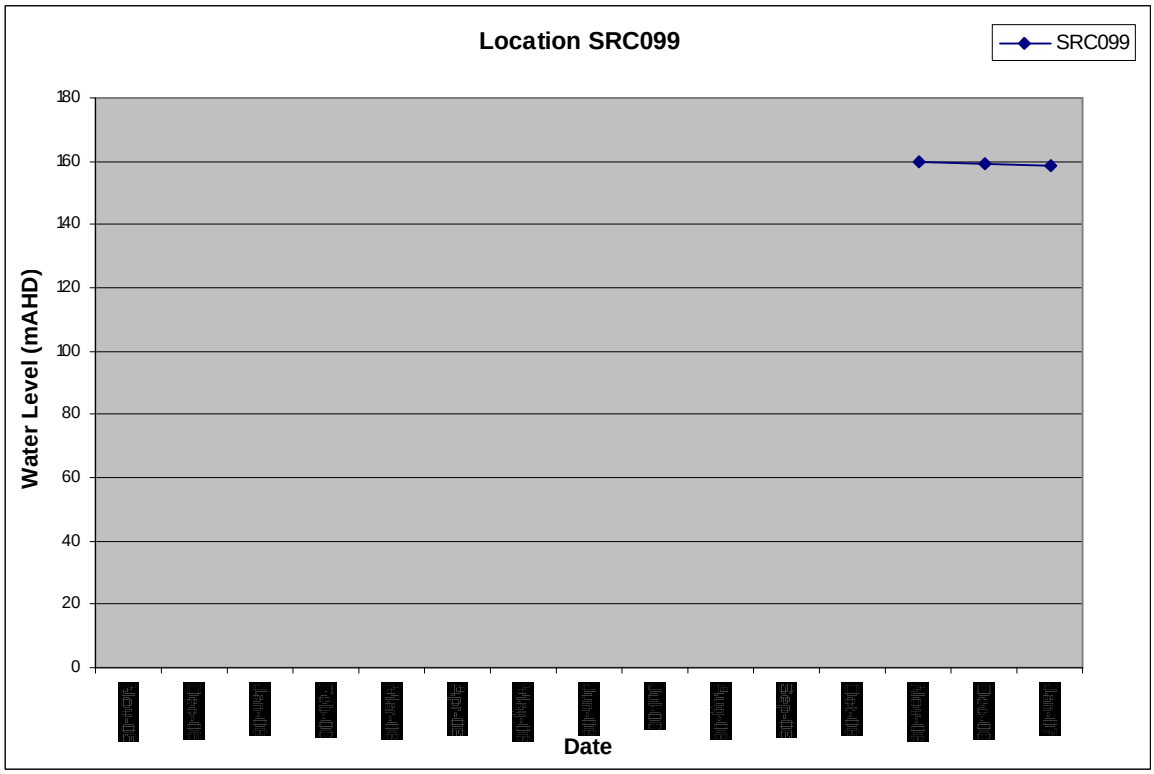
0
Date


Location SRC099
SRC099
Water Level (mAHD)
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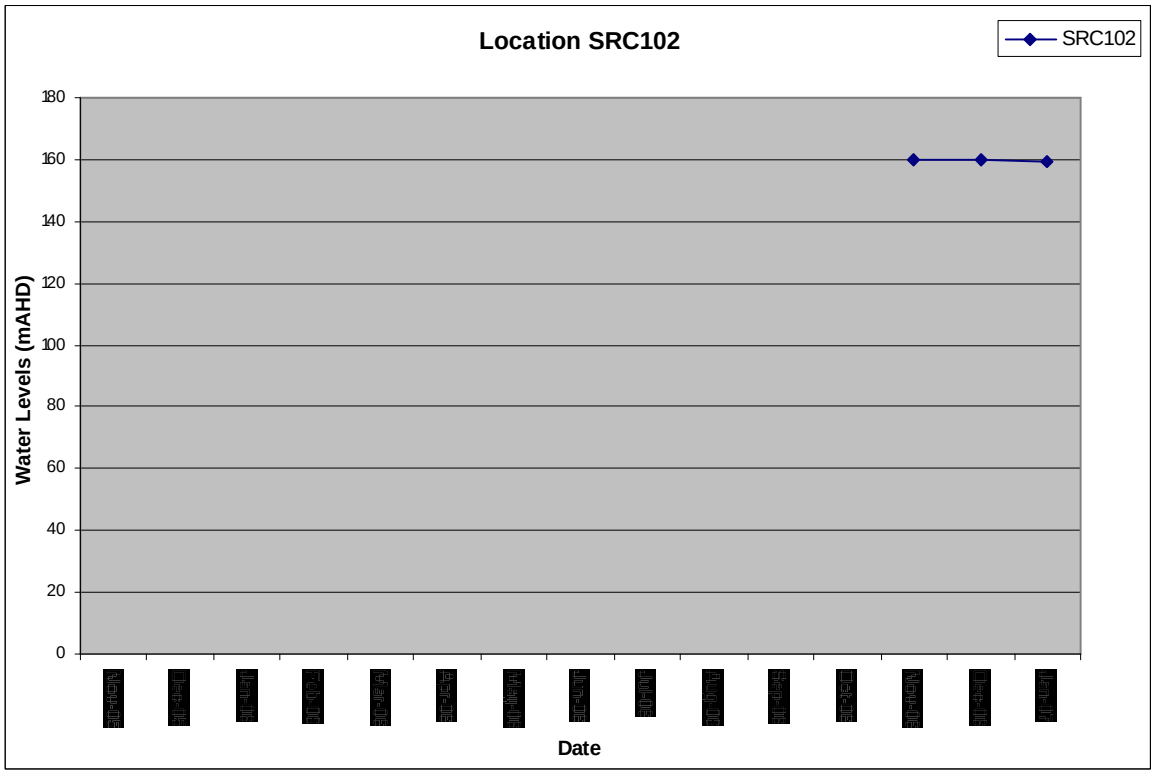
60
40
20
0
Date


Location SRC102
SRC102
Water Levels (mAHD)
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40
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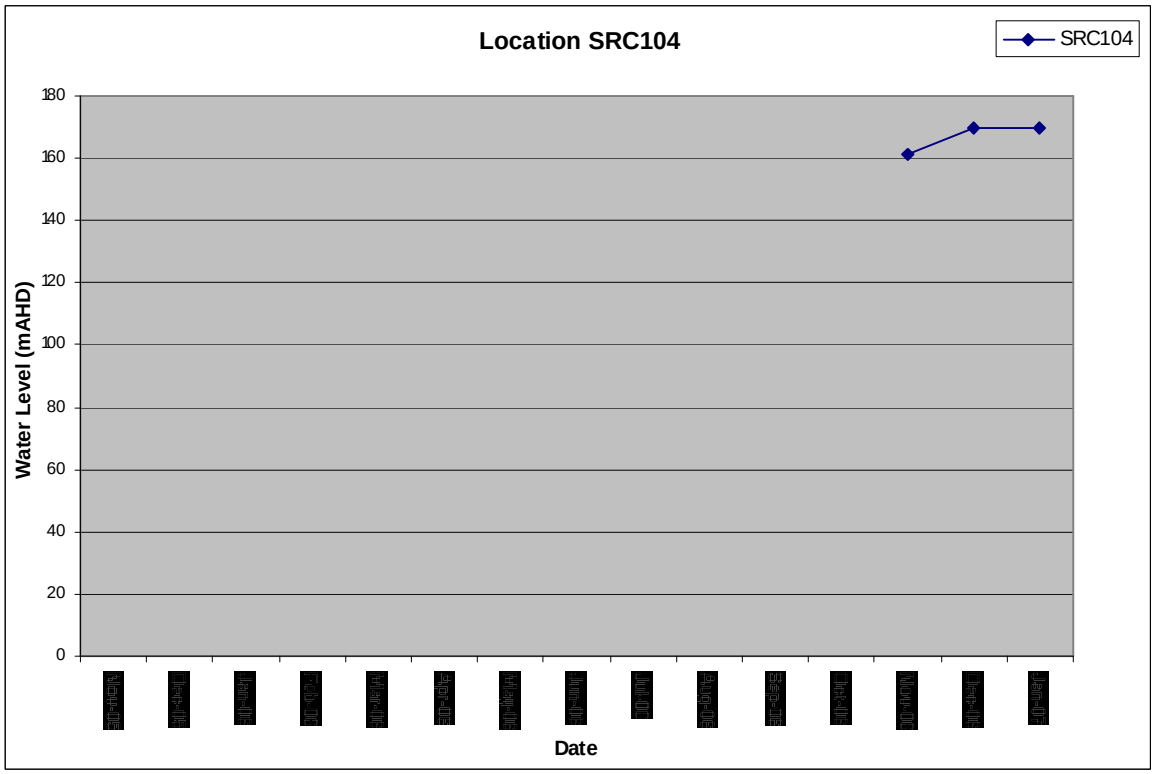
0
Date


Location SRC104
SRC104
Water Level (mAHD)
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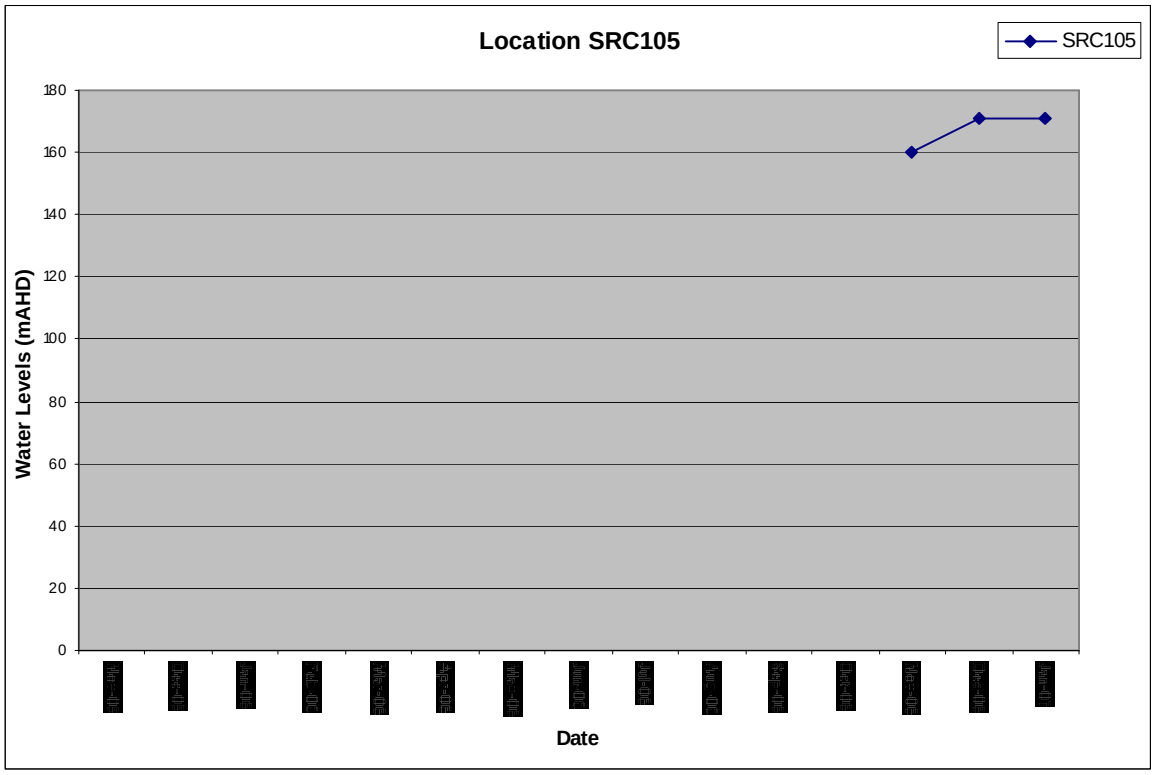
0
Date


Location SRC105
SRC105
Water Levels (mAHD)
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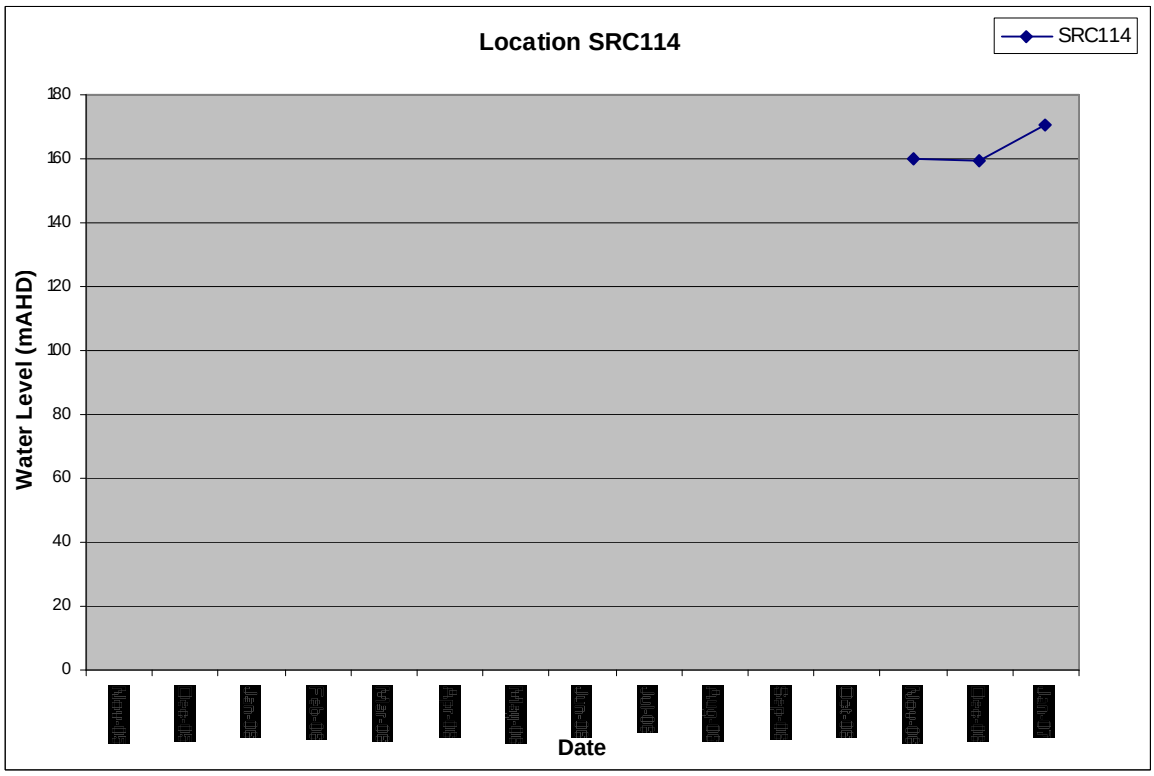
120
100
80
60
40
20
0
Date


Location SRC114
SRC114
Water Level (mAHD)
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120
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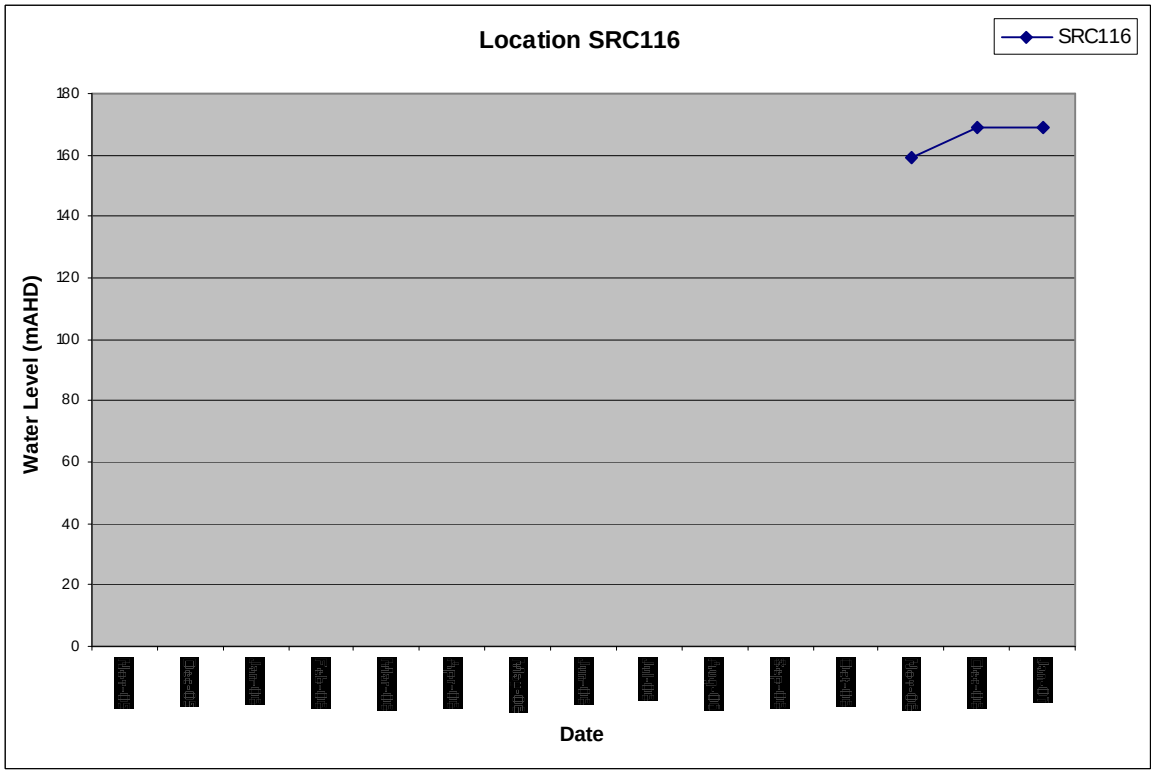
80
60
40
20
0
Date


Location SRC116
SRC116
Water Level (mAHD)
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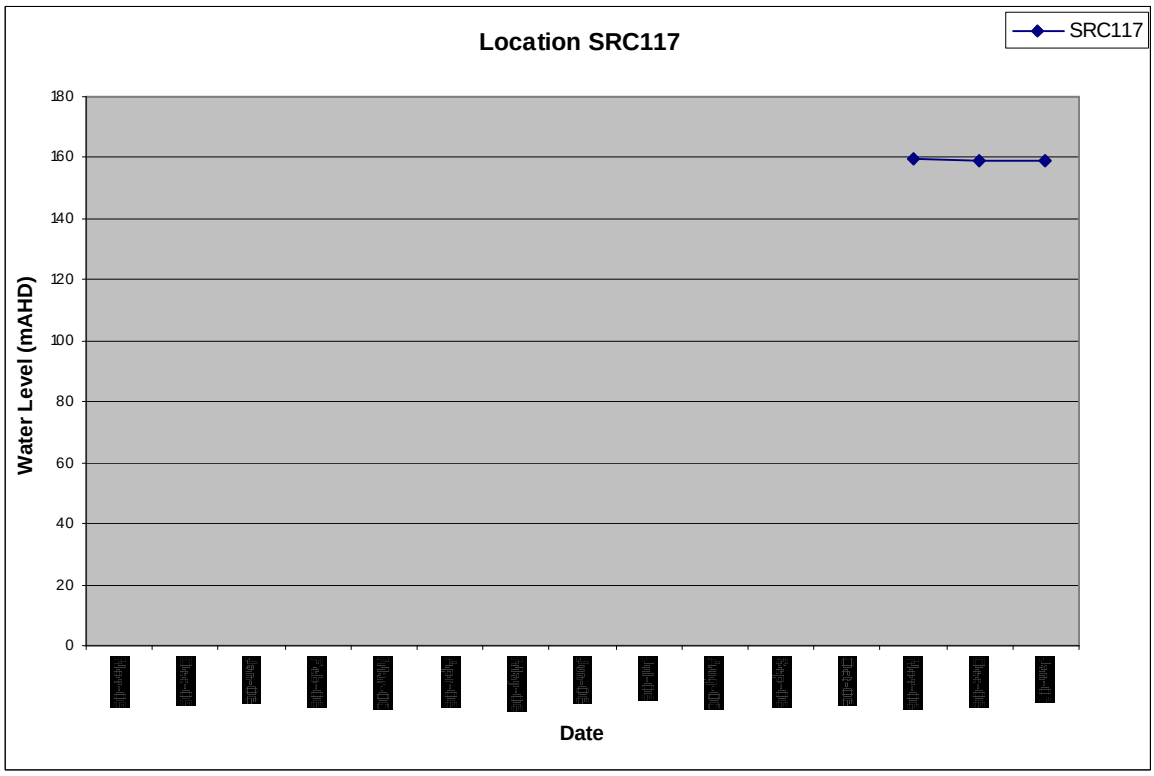
0
Date


Location SRC117
SRC117
Water Level (mAHD)
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160
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40
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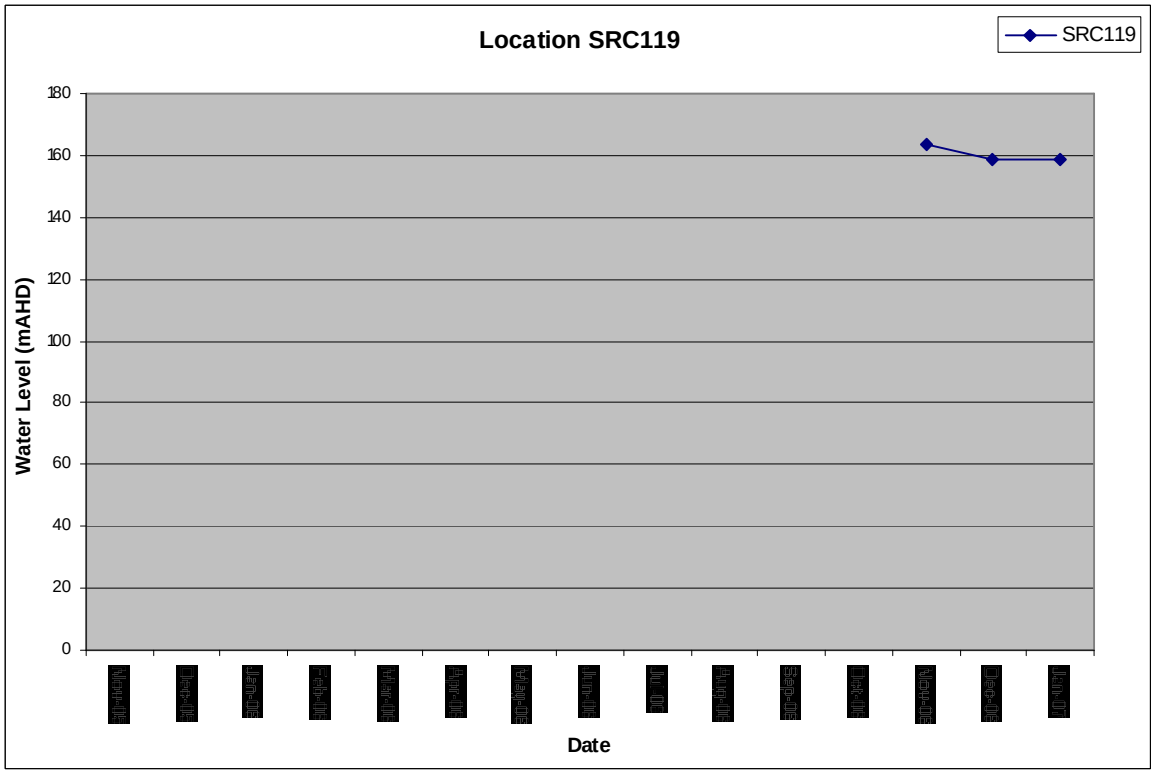
Date


Location SRC119
SRC119
Water Level (mAHD)
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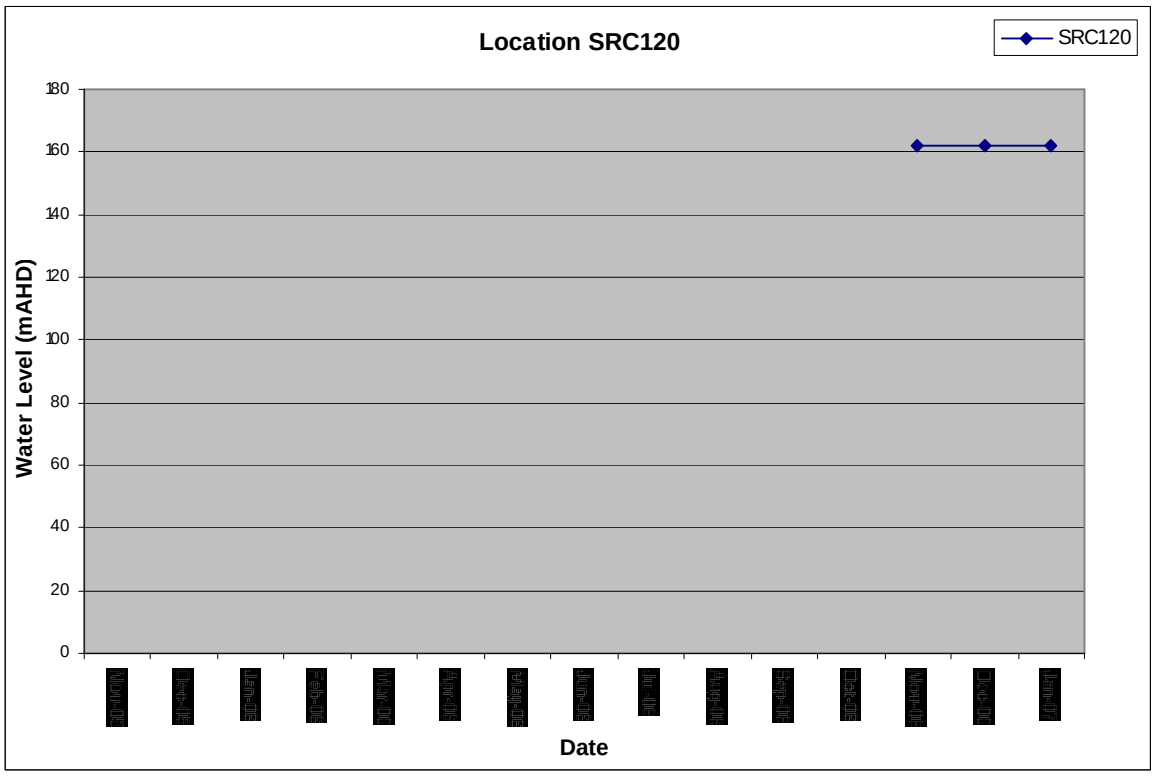
0
Date


Location SRC120
SRC120
Water Level (mAHD)
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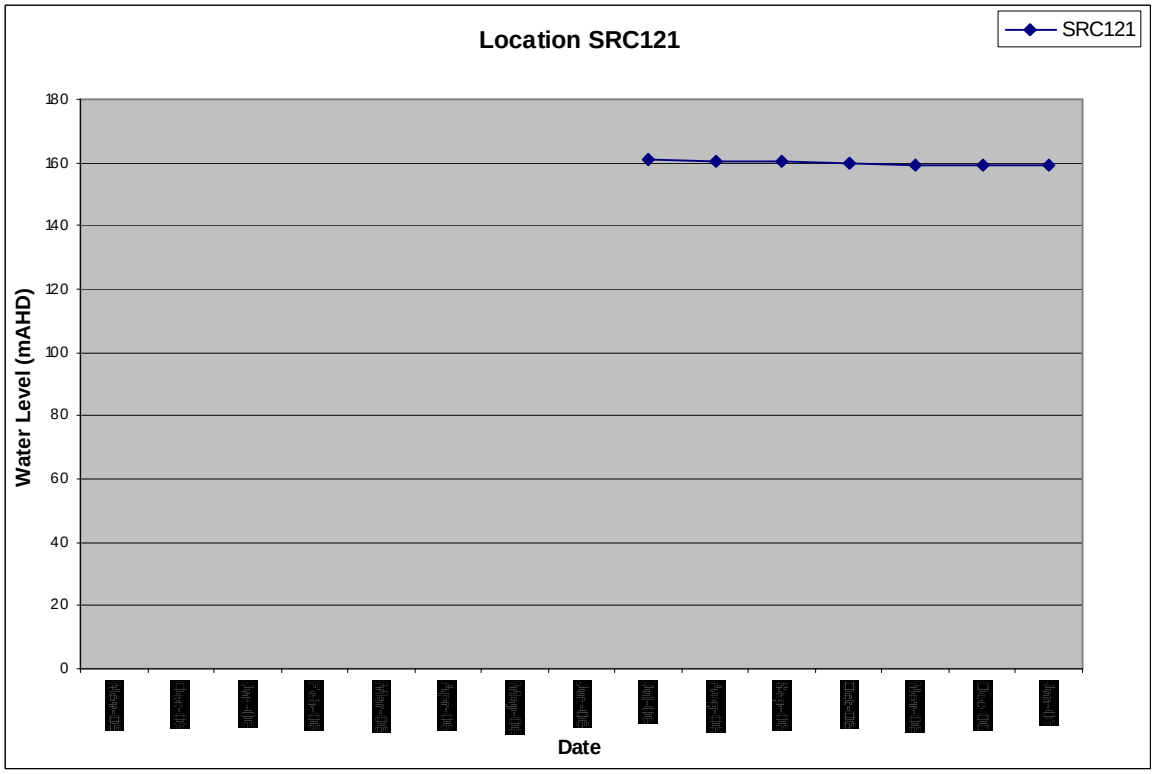
Date


Location SRC121
SRC121
Water Level (mAHD)
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80
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40
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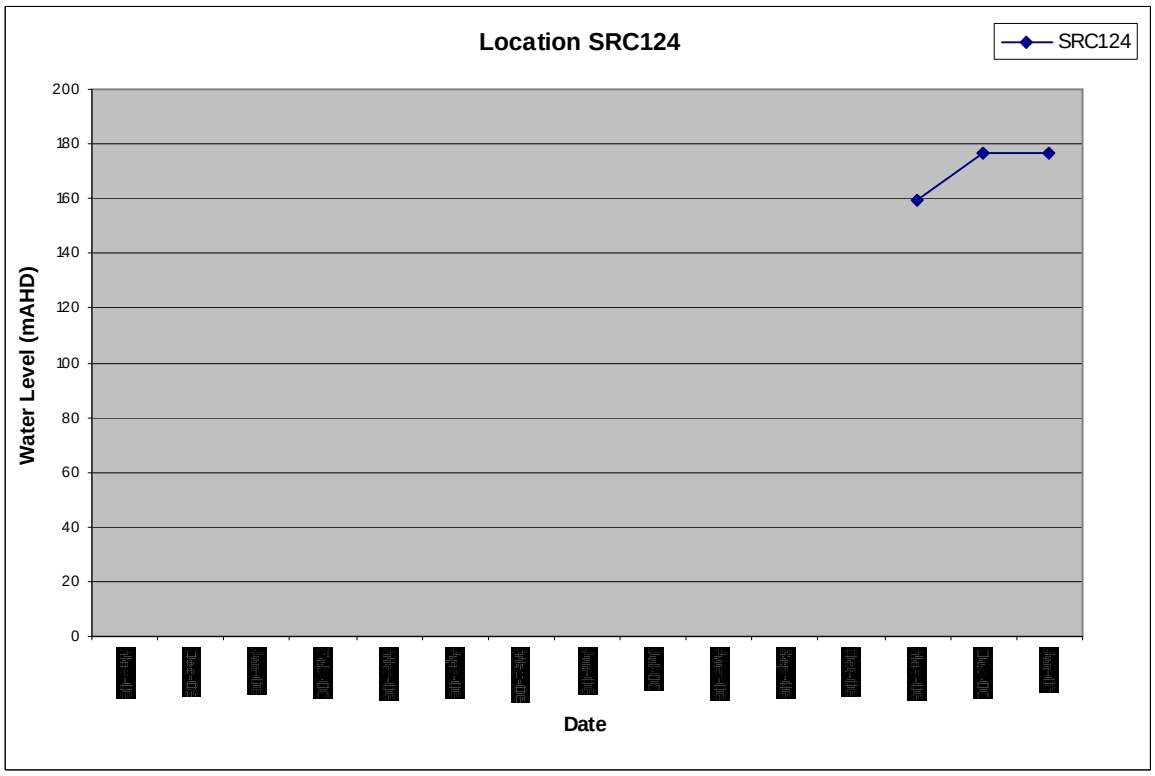
0
Date


Location SRC124
SRC124
Water Level (mAHD)
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180
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80
60
40
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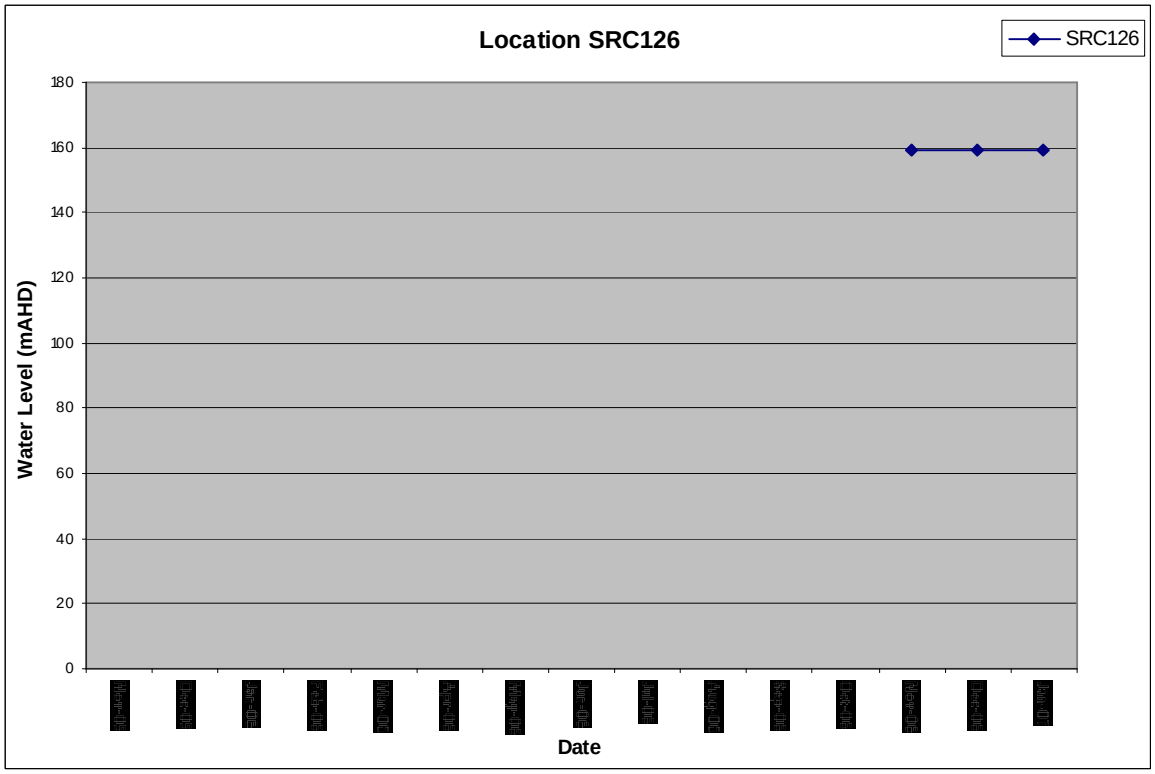
0
Date


Location SRC126
SRC126
Water Level (mAHD)
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160
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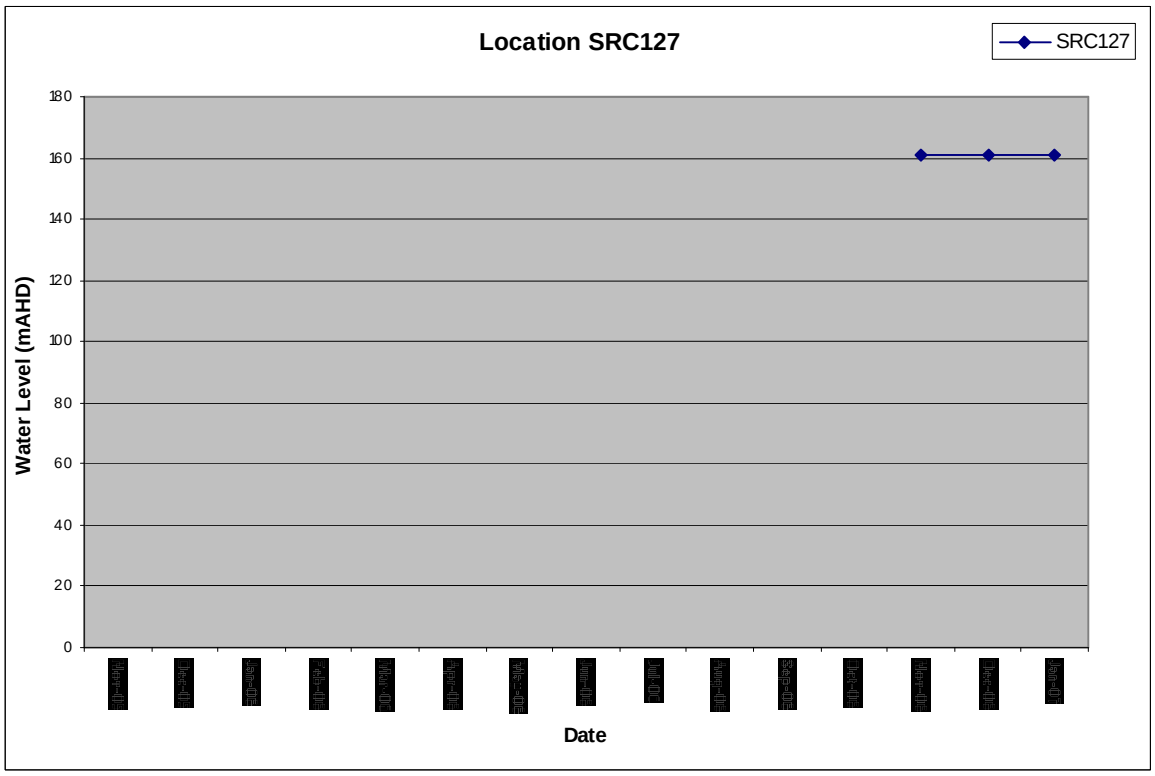
Date


Location SRC127
SRC127
Water Level (mAHD)
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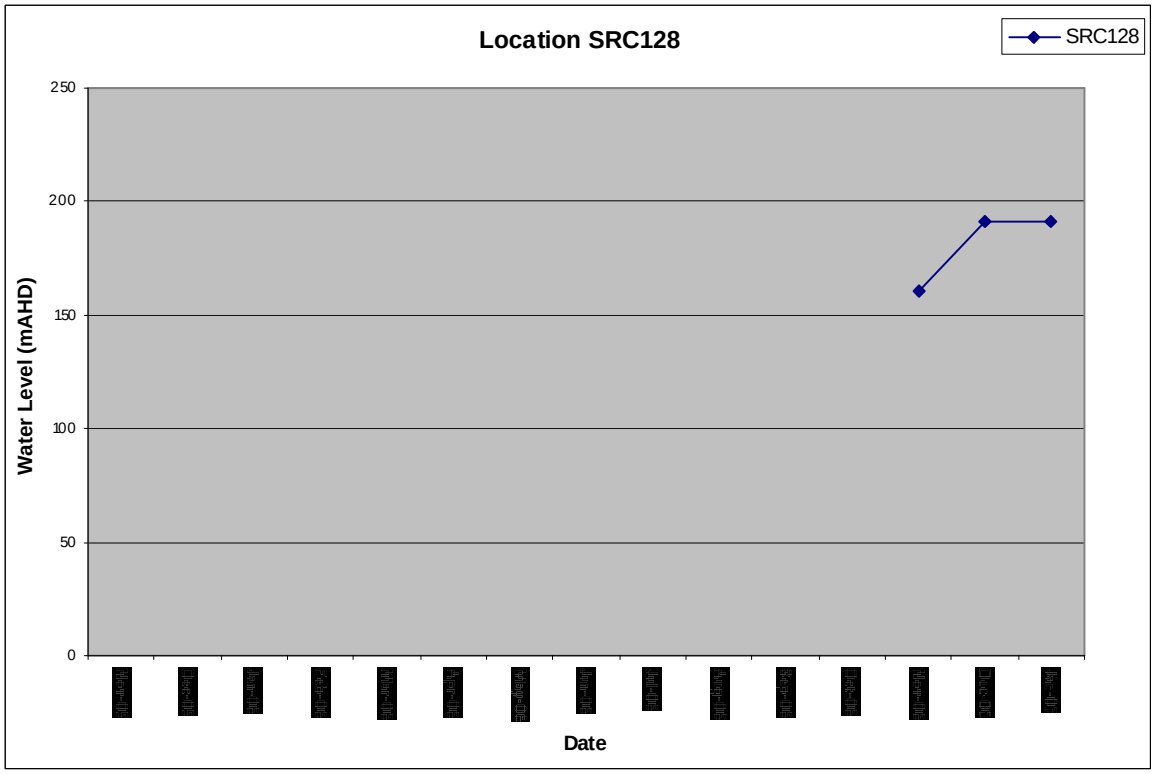
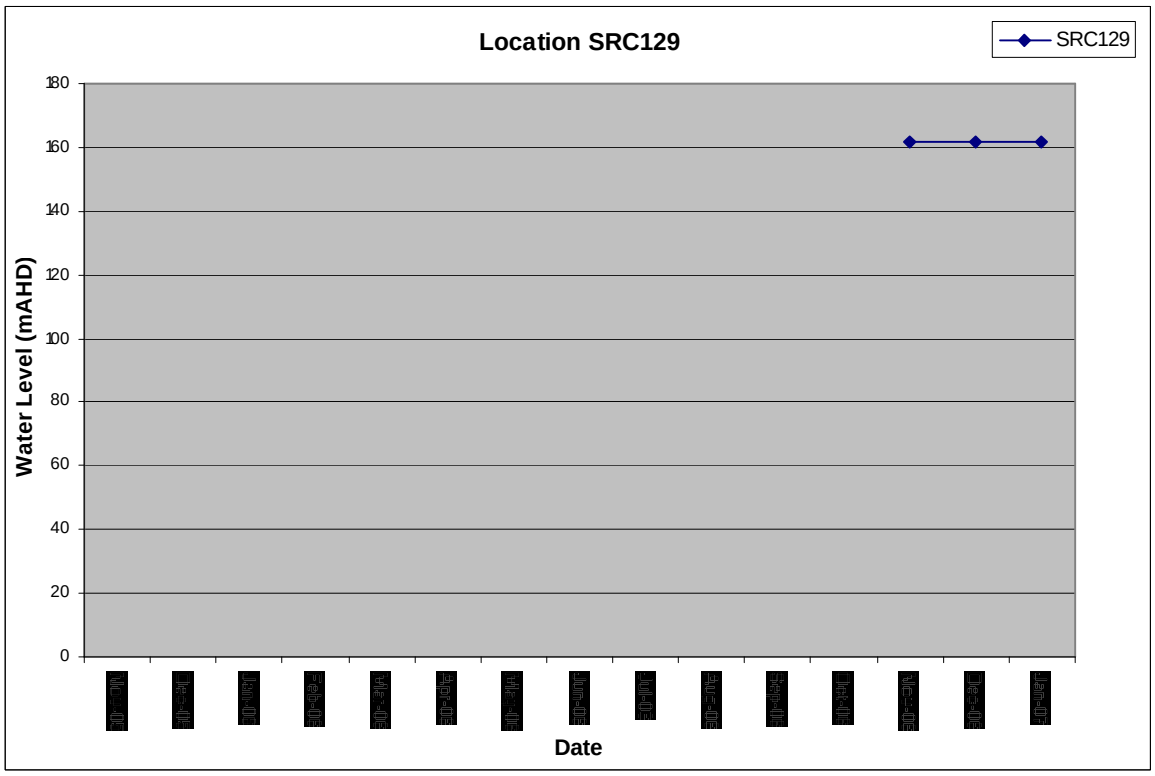
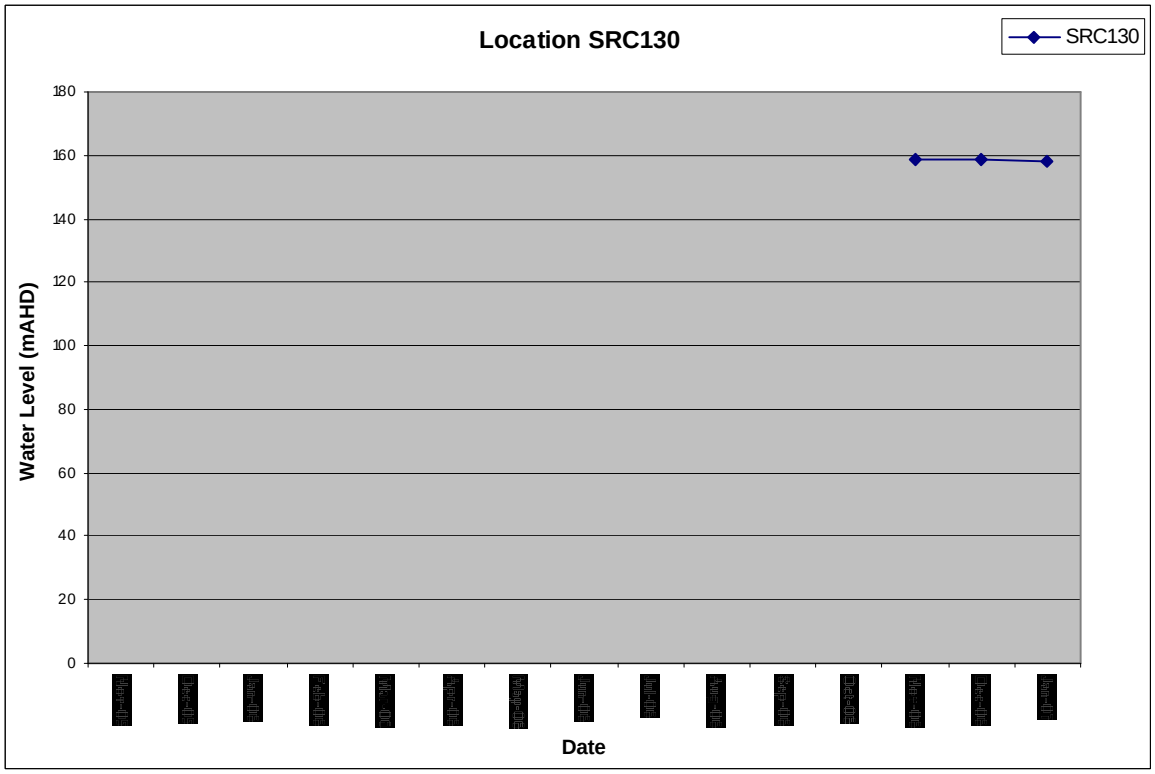
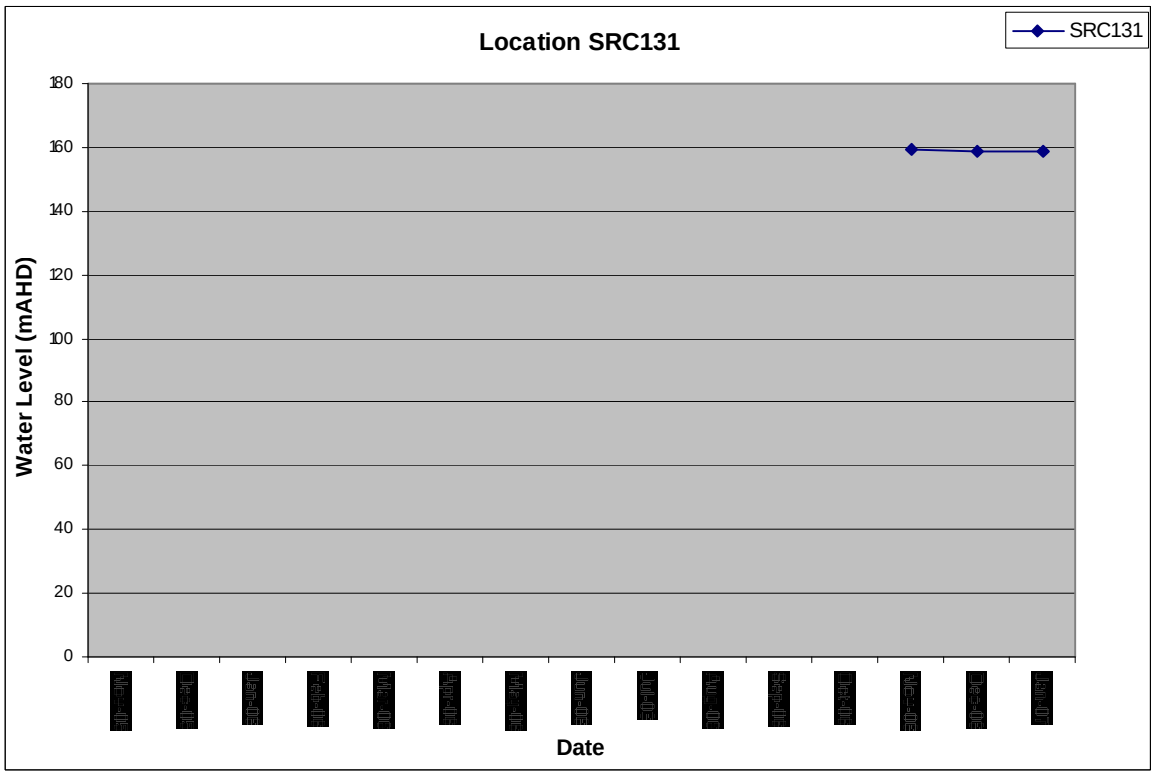
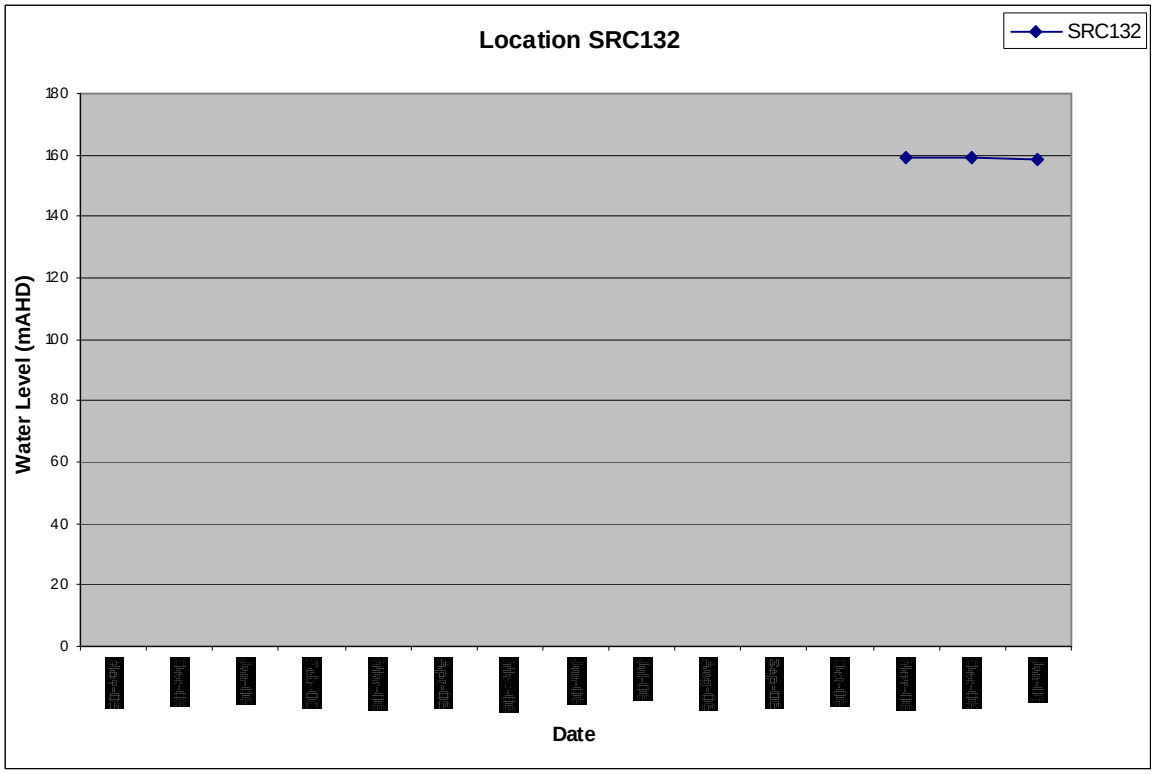
120
100
80
60
40
20
0
Date

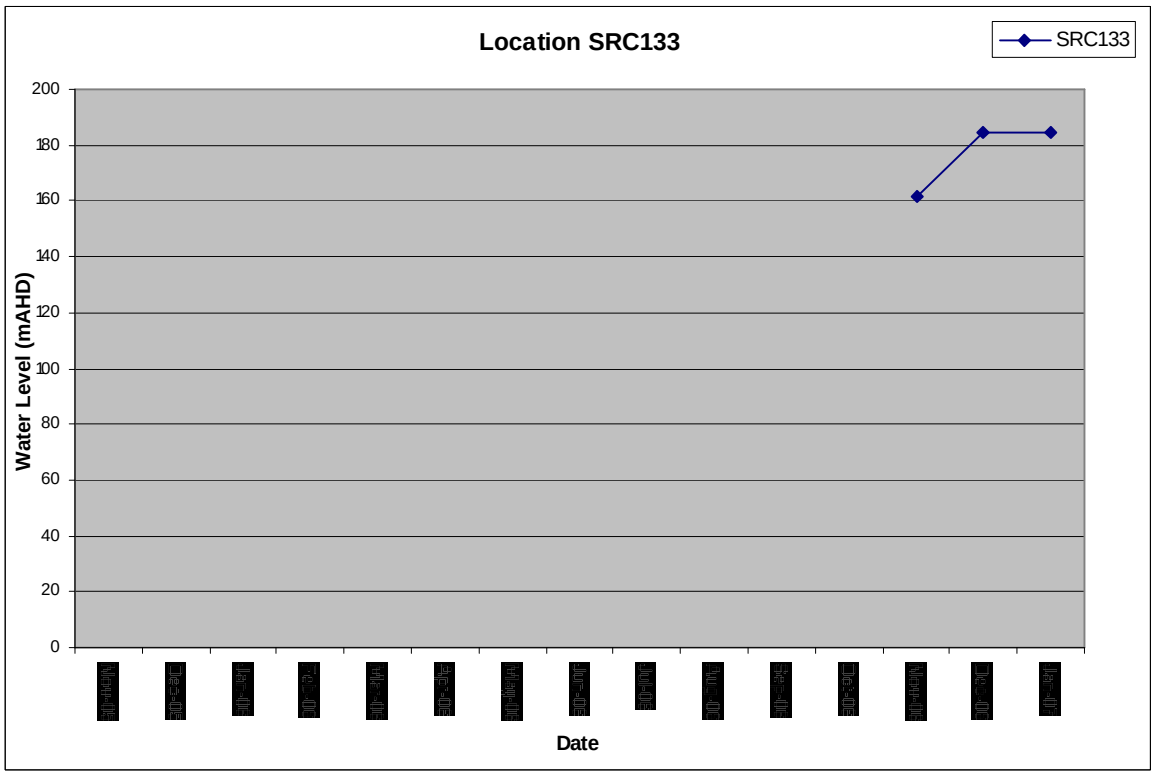

Location SRC128
SRC128
Water Level (mAHD)
250
200
150
100
50
0
Date

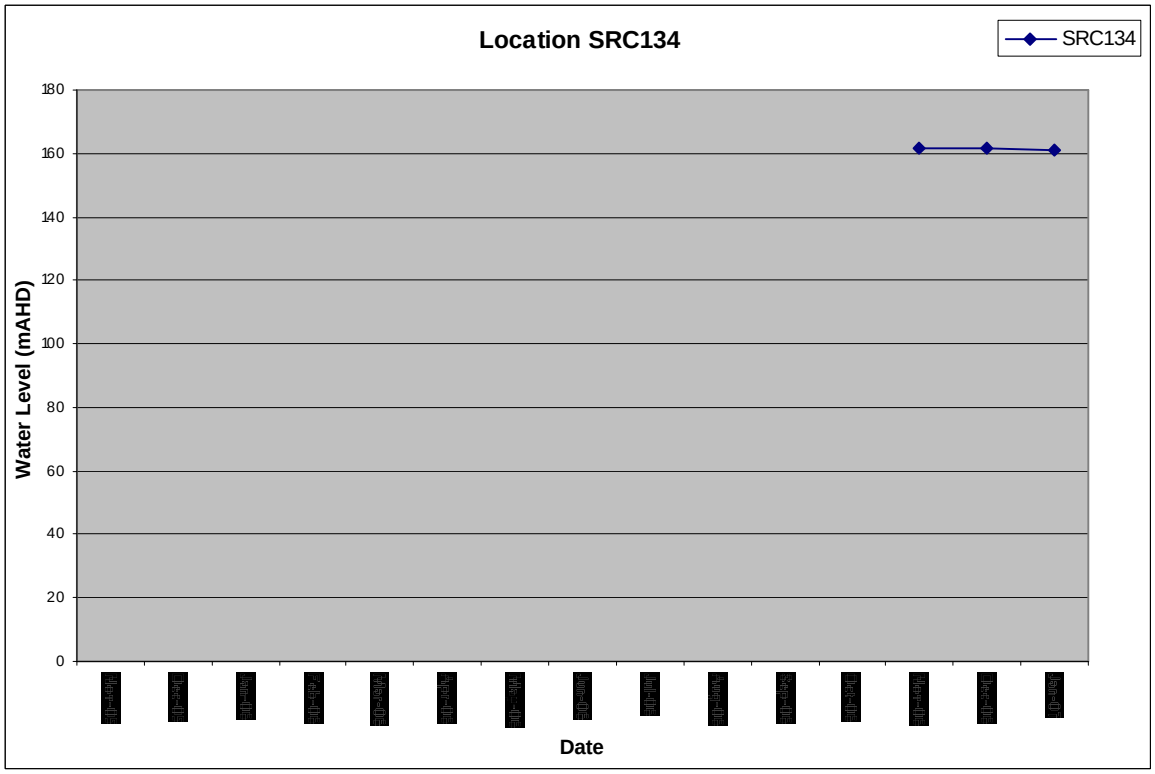

Location SRC129
SRC129
Water Level (mAHD)
180
160
140
120
100
80
60
40
20
0
Date

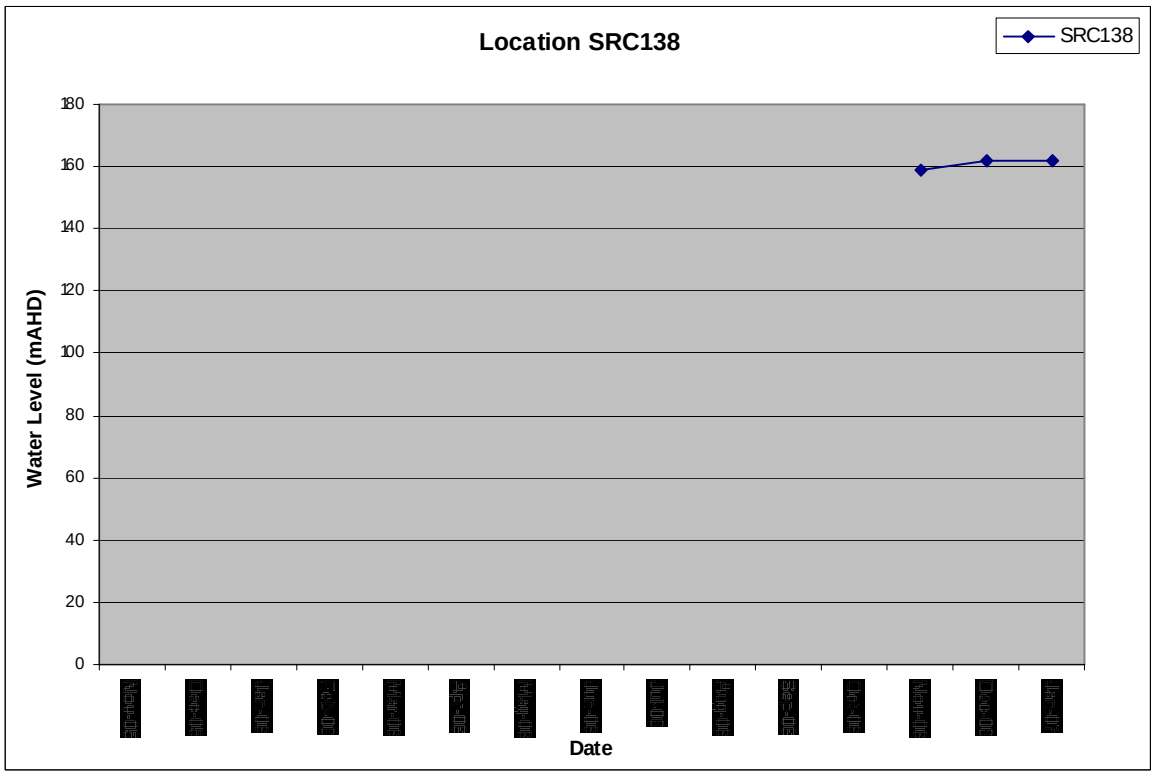

Location SRC130
SRC130
Water Level (mAHD)
180
160
140
120
100
80
60
40
20
0
Date

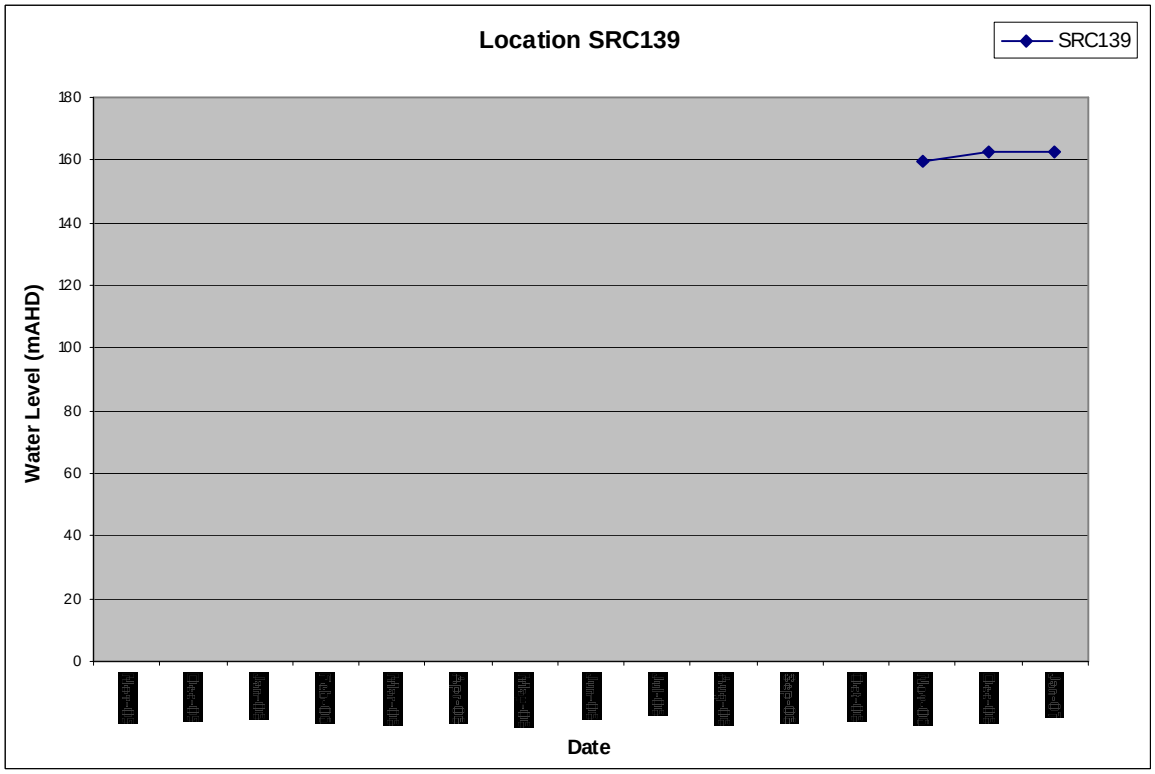

Location SRC131
SRC131
Water Level (mAHD)
180
160
140
120
100
80
60
40
20
0
Date

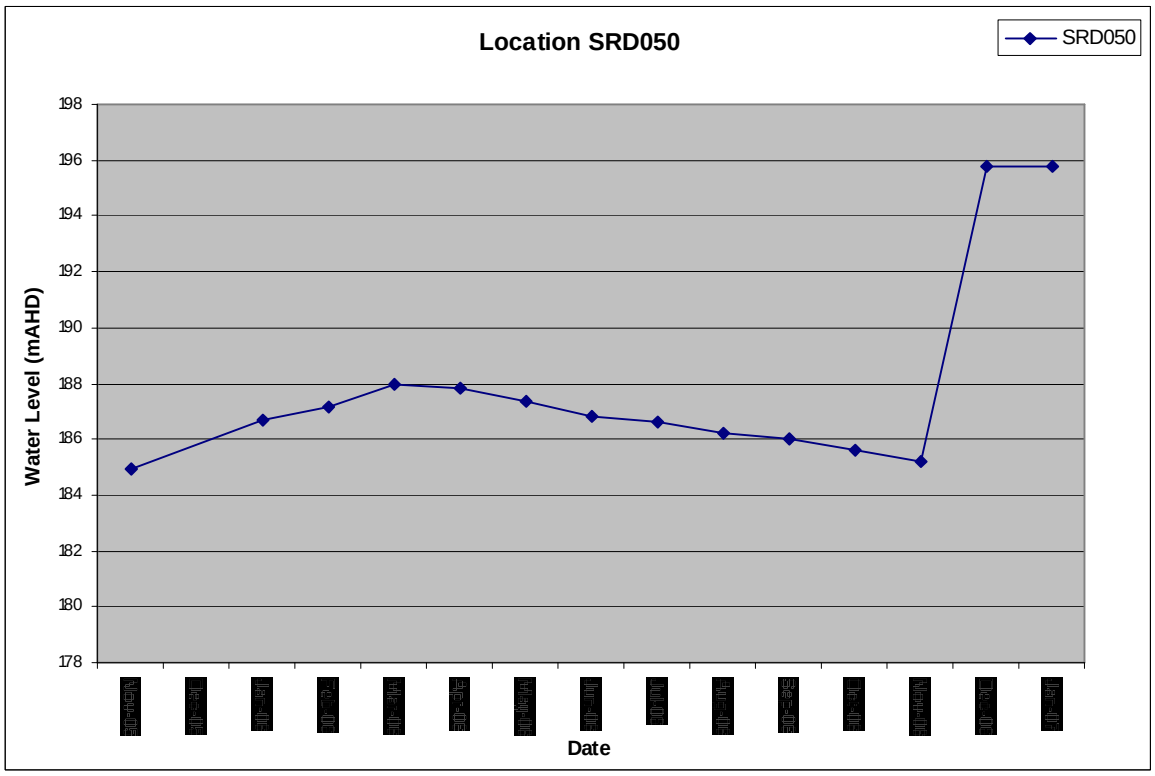

Location SRC132
SRC132
Water Level (mAHD)
180
160
140
120
100
80
60
40
20
0
Date

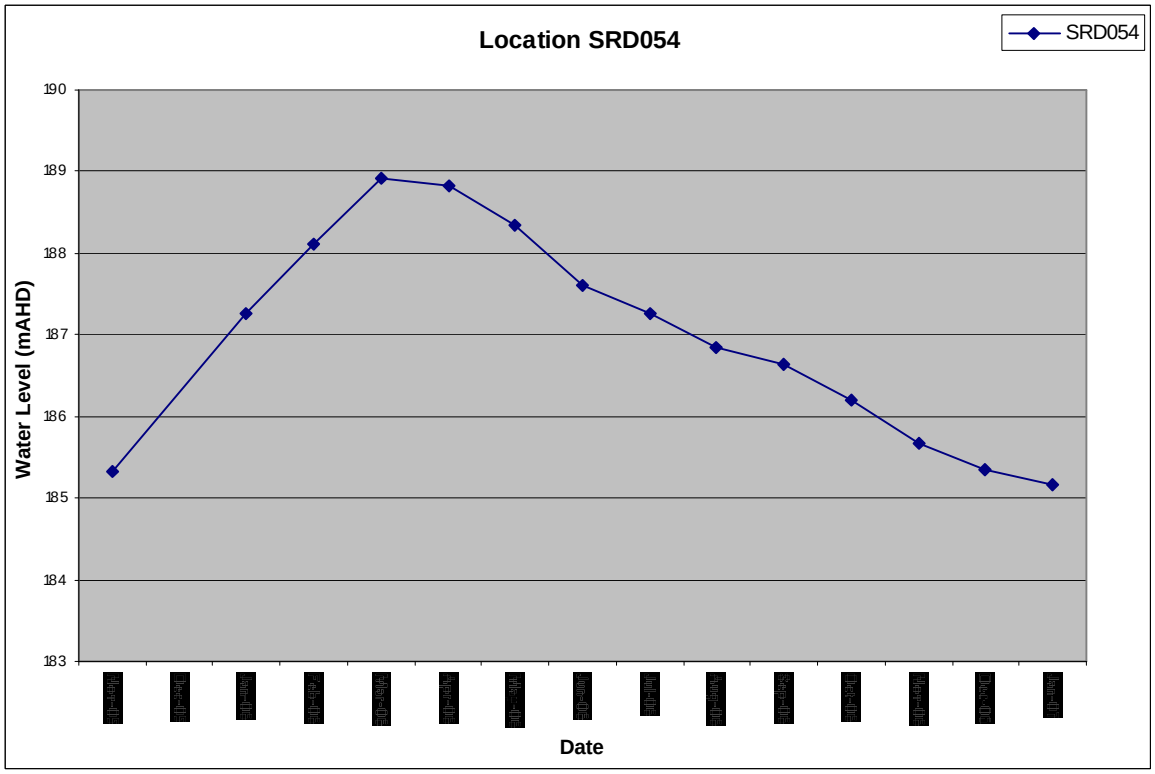

Location SRC133
SRC133
Water Level (mAHD)
200
180
160
140
120
100
80
60
40
20
0
Date

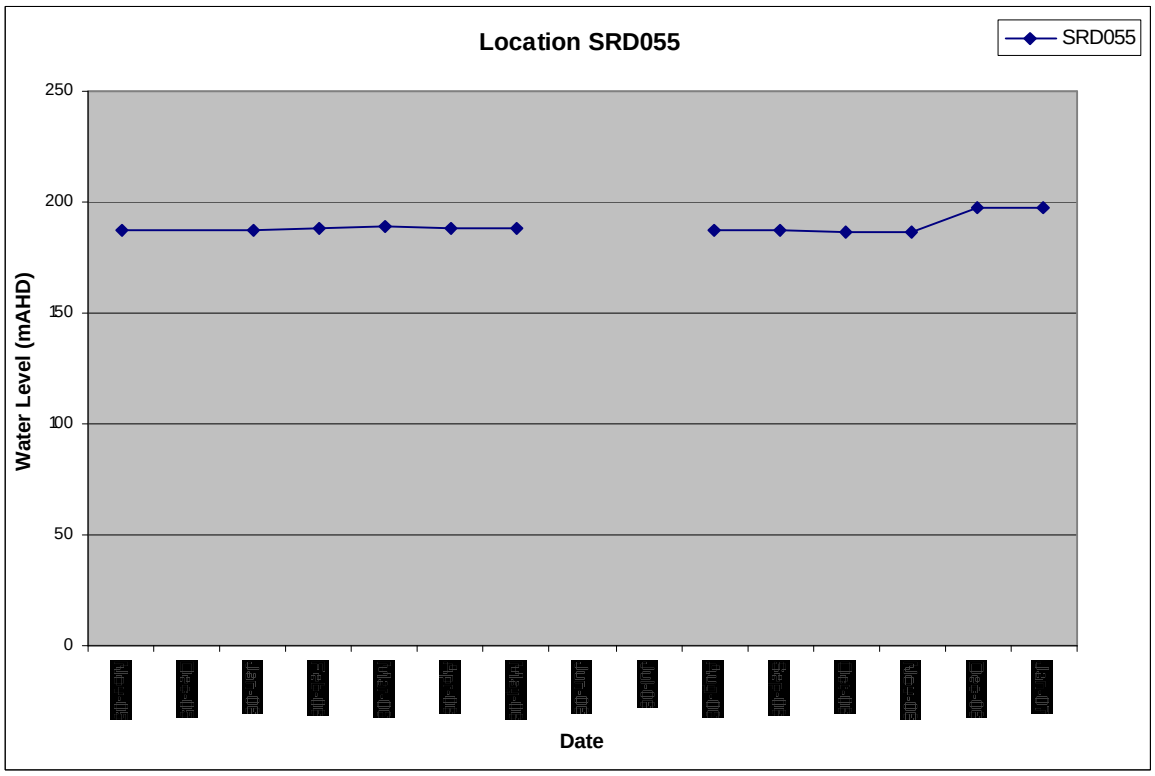

Location SRC134
SRC134
Water Level (mAHD)
180
160
140
120
100
80
60
40
20
0
Date

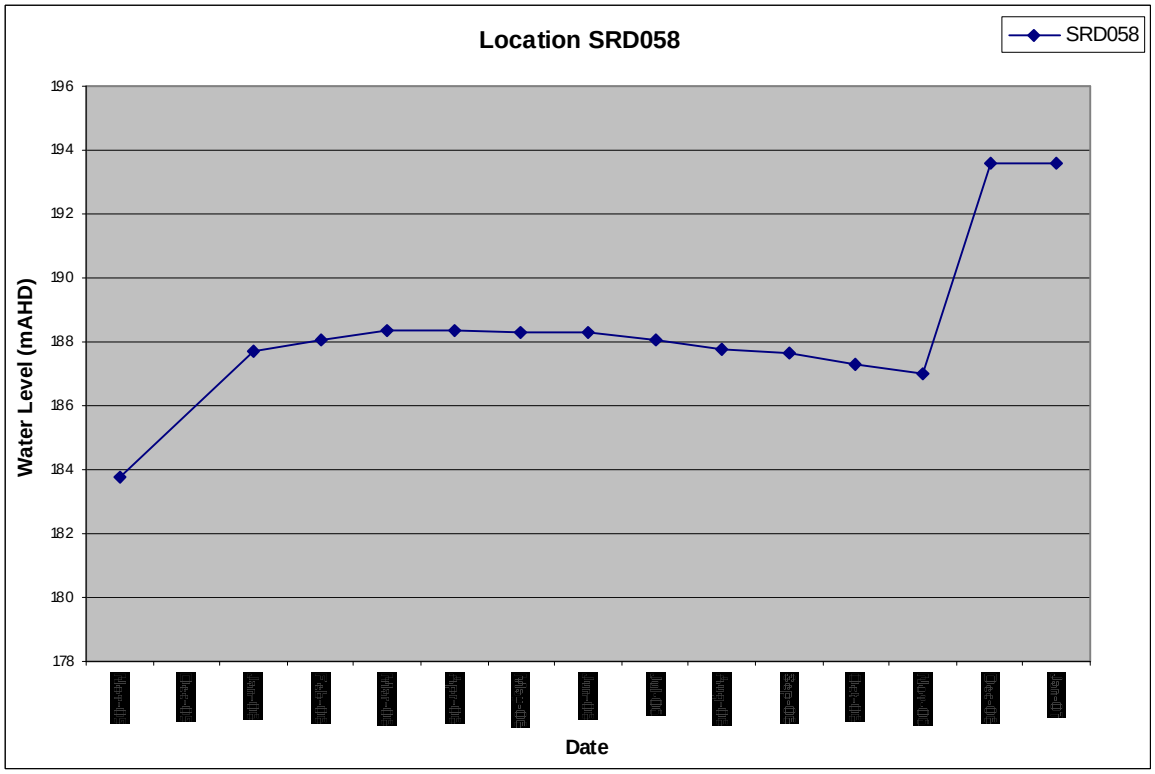

Location SRC138
SRC138
Water Level (mAHD)
180
160
140
120
100
80
60
40
20
0
Date

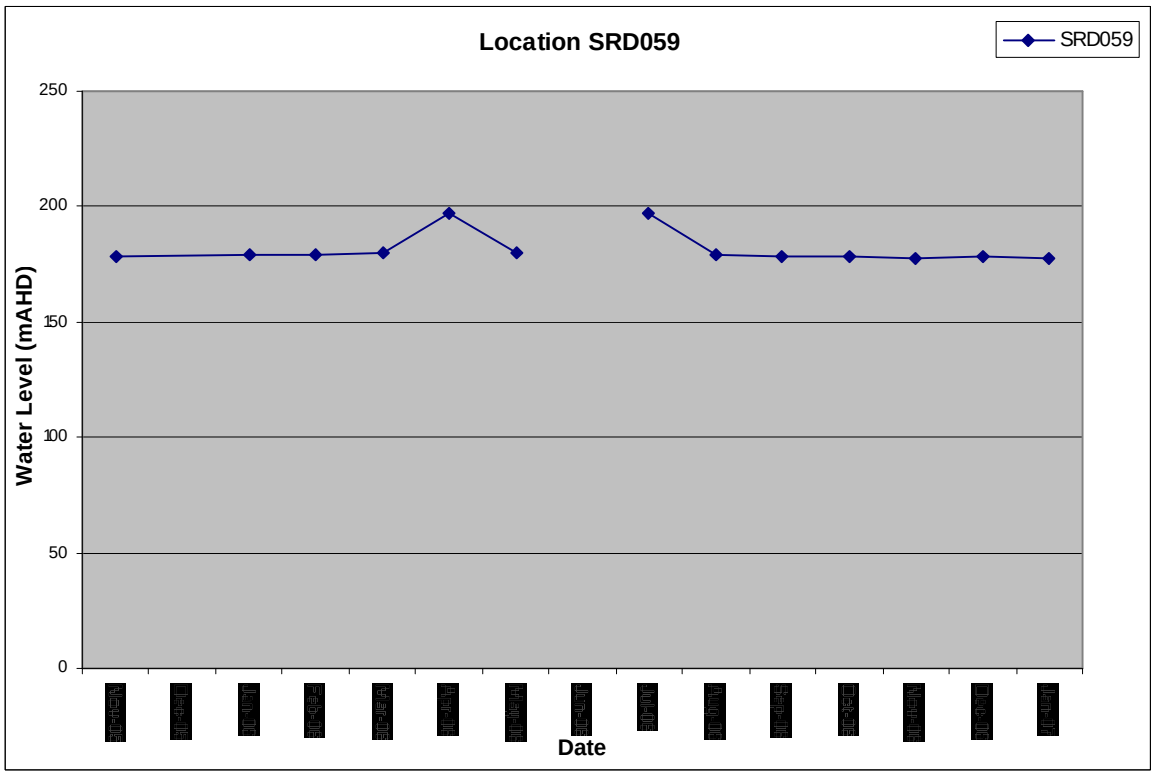

Location SRC139
SRC139
Water Level (mAHD)
180
160
140
120
100
80
60
40
20
0
Date

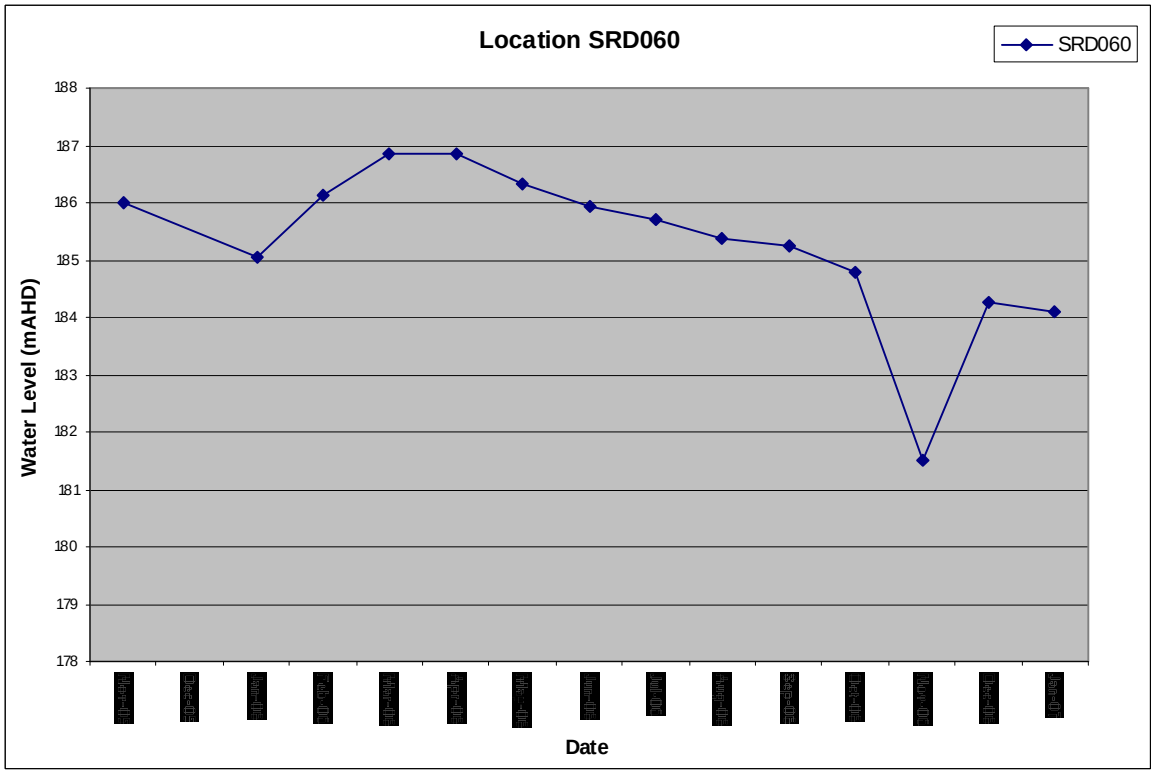

Location SRD050
SRD050
Water Level (mAHD)
198
196
194
192
190
188
186
184
182
180
178
Date

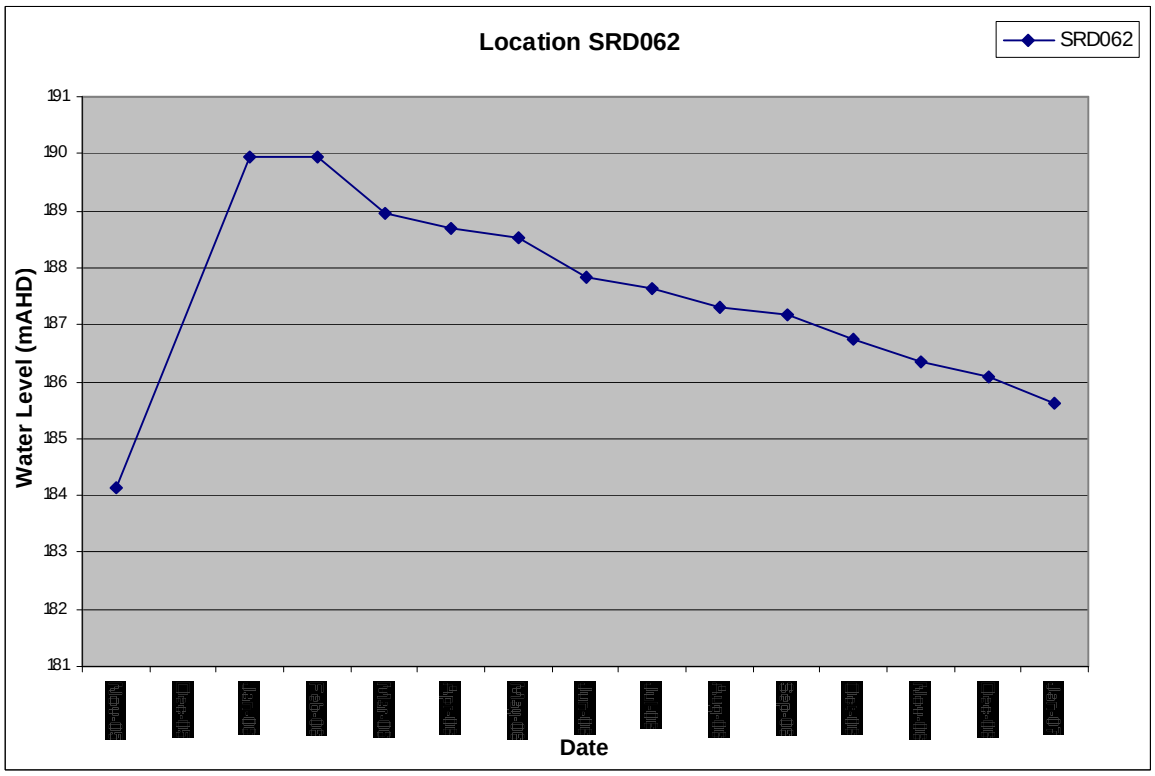

Location SRD054
SRD054
Water Level (mAHD)
190
189
188
187
186
185
184
183
Date

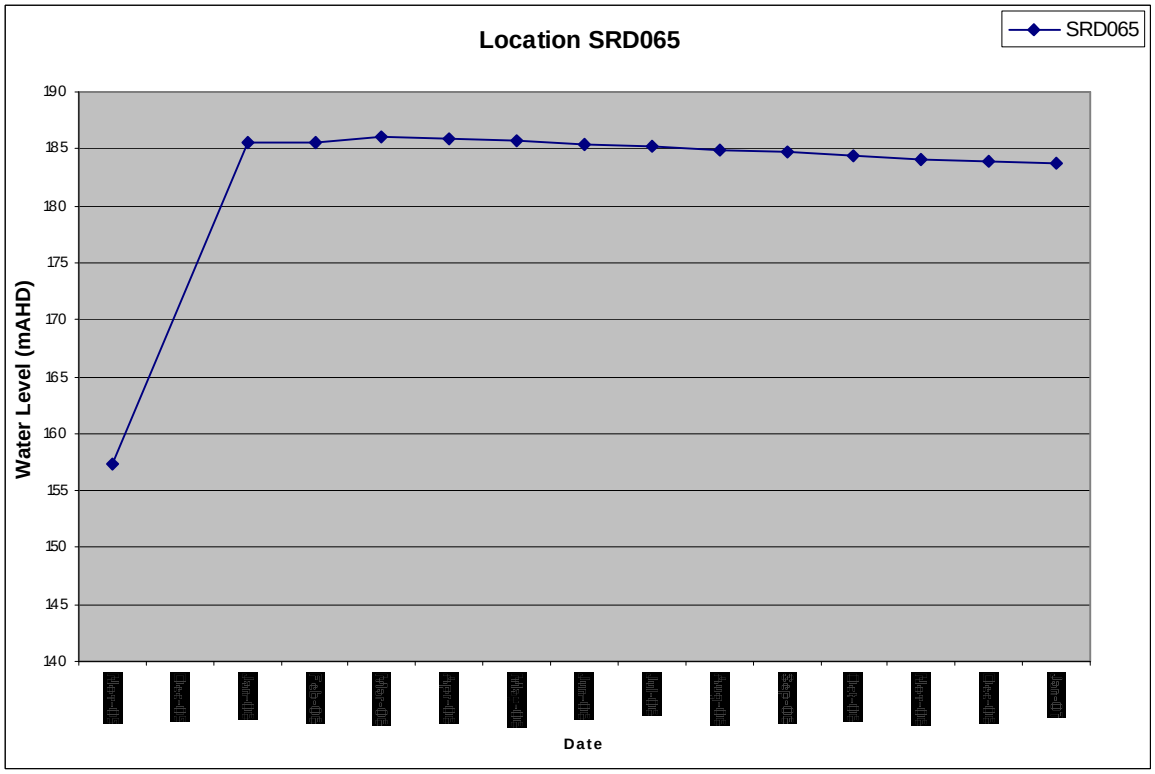

Location SRD055
SRD055
Water Level (mAHD)
250
200
150
100
50
0
Date

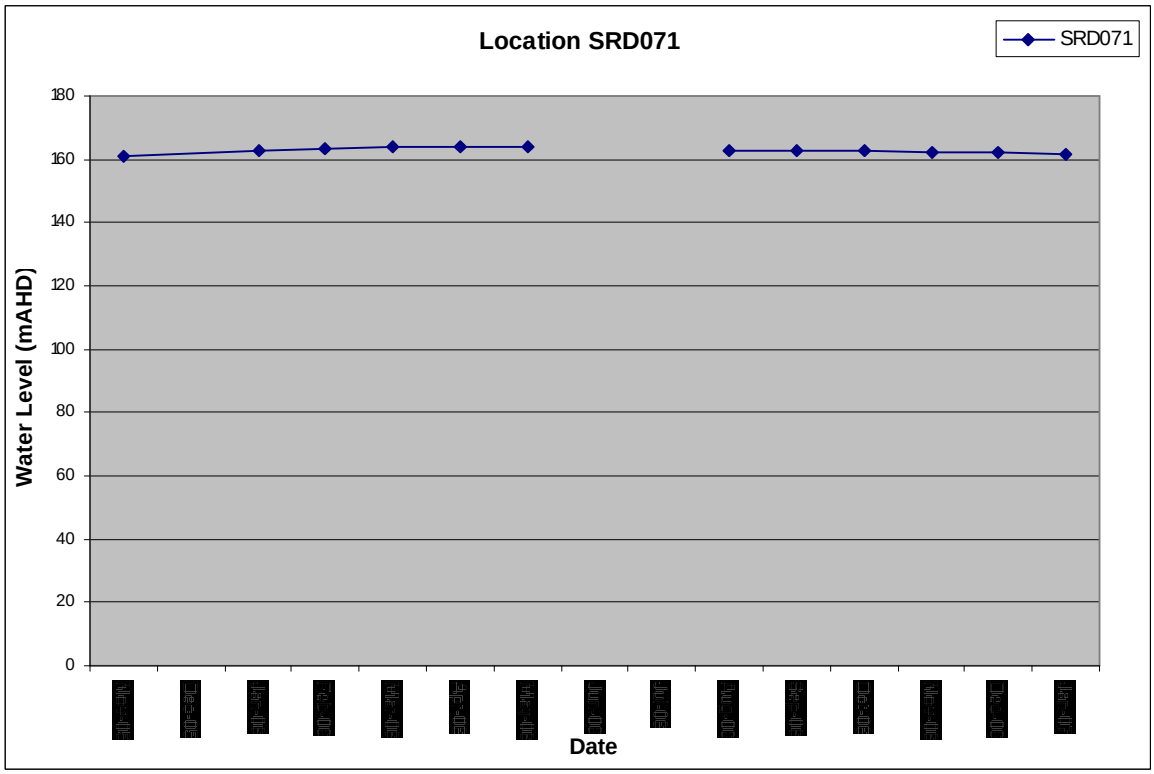

Location SRD058
SRD058
Water Level (mAHD)
196
194
192
190
188
186
184
182
180
178
Date

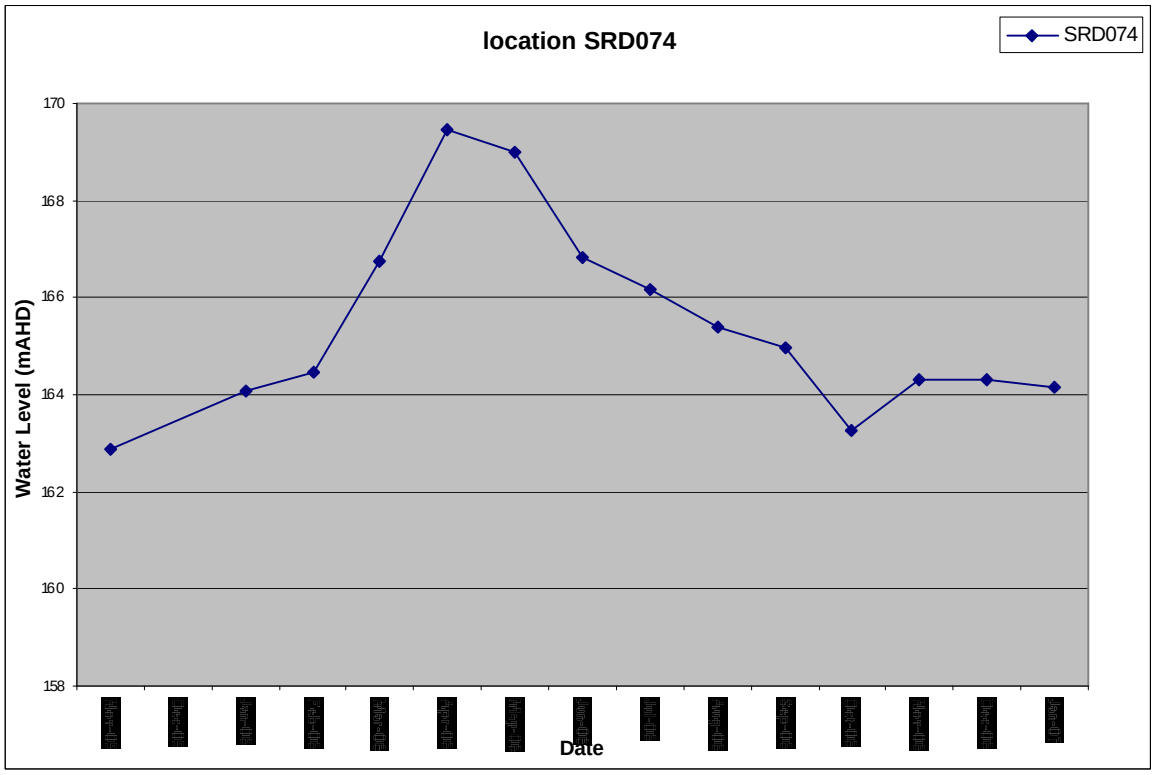

Location SRD059
SRD059
250
200
150
100
50
0
Water Level (mAHD)
Date

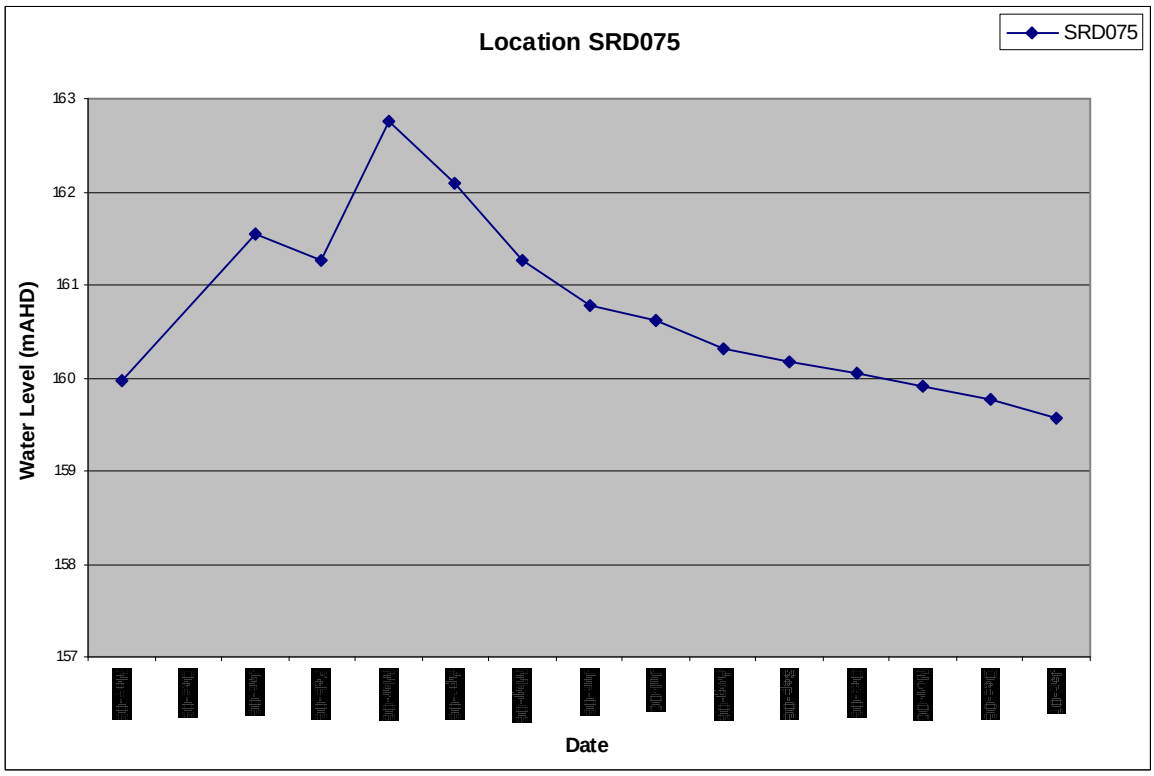

Location SRD060
SRD060
188
187
186
185
184
183
182
181
180
179
178
Water Level (mAHD)
Date

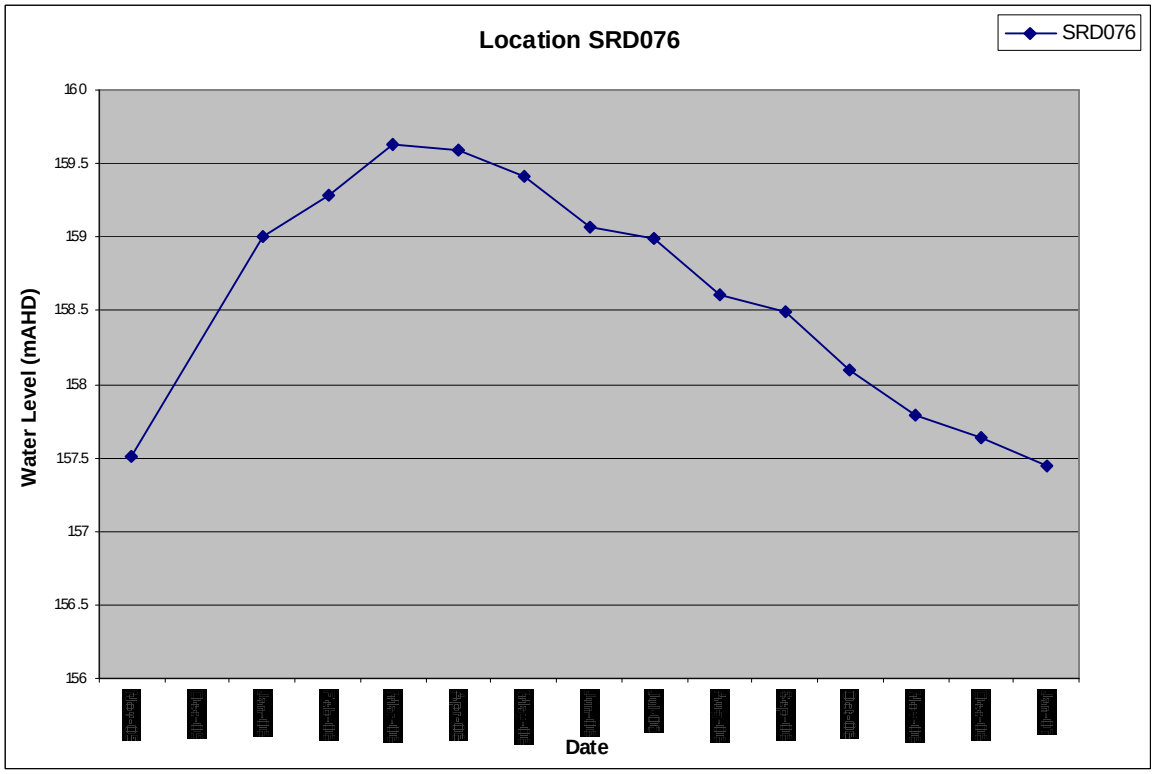

Location SRD062
SRD062
Water Level (mAHD)
191
190
189
188
187
186
185
184
183
182
181
Date

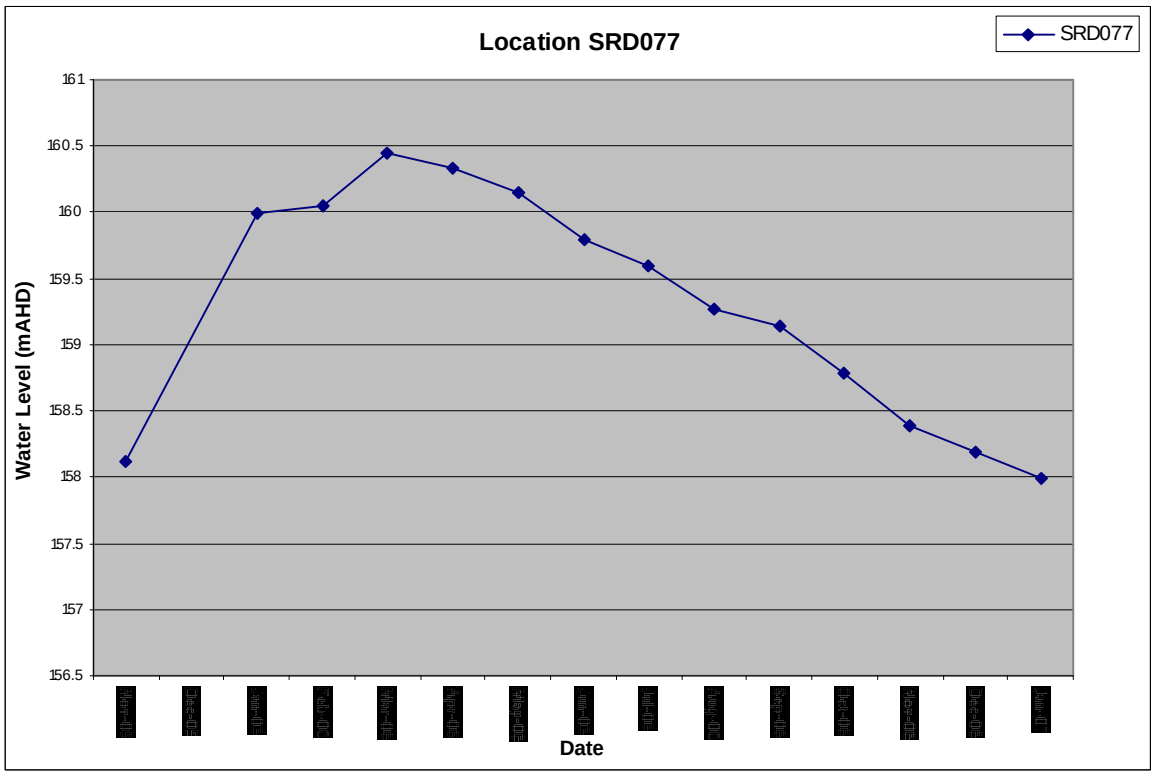

Location SRD065
SRD065
Water Level (mAHD)
190
185
180
175
170
165
160
155
150
145
140
Date

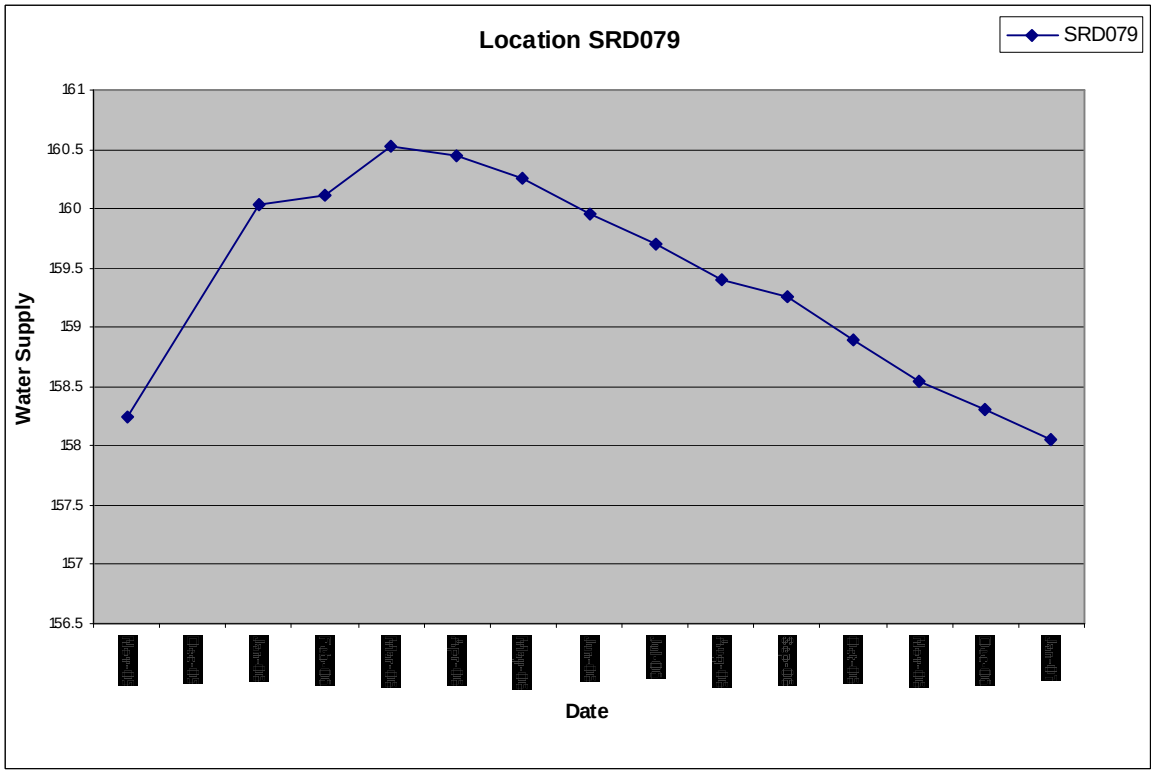

Location SRD071
SRD071
Water Level (mAHD)
180
160
140
120
100
80
60
40
20
0
Date

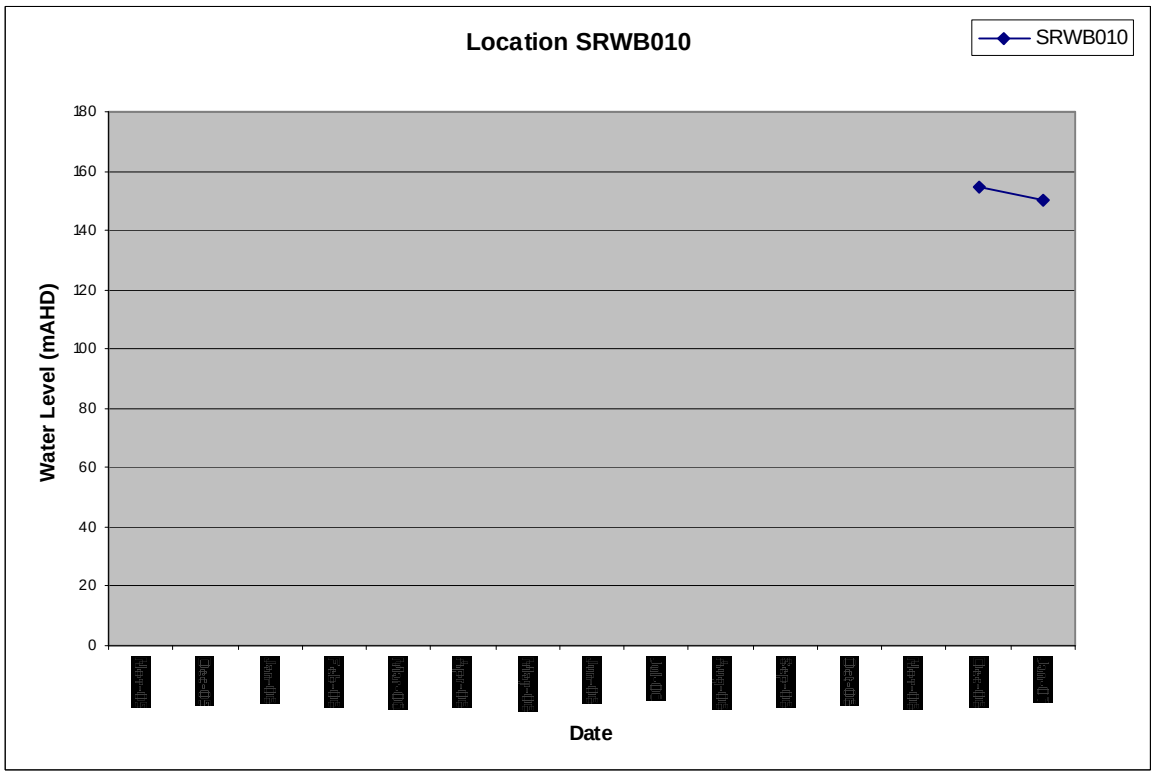

location SRD074
SRD074
Water Level (mAHD)
170
168
166
164
162
160
158
Date


Location SRD075
SRD075
Water Level (mAHD)
163
162
161
160
159
158
157
Date


Location SRD076
SRD076
Water Level (mAHD)
160
159.5
159
158.5
158
157.5
157
156.5
156
Date


Location SRD077
SRD077
Water Level (mAHD)
161
160.5
160
159.5
159
158.5
158
157.5
157
156.5
Date


Location SRD079
SRD079
Water Supply
161
160.5
160
159.5
159
158.5
158
157.5
157
156.5
Date


Location SRWB010
SRWB010
Water Level (mAHD)
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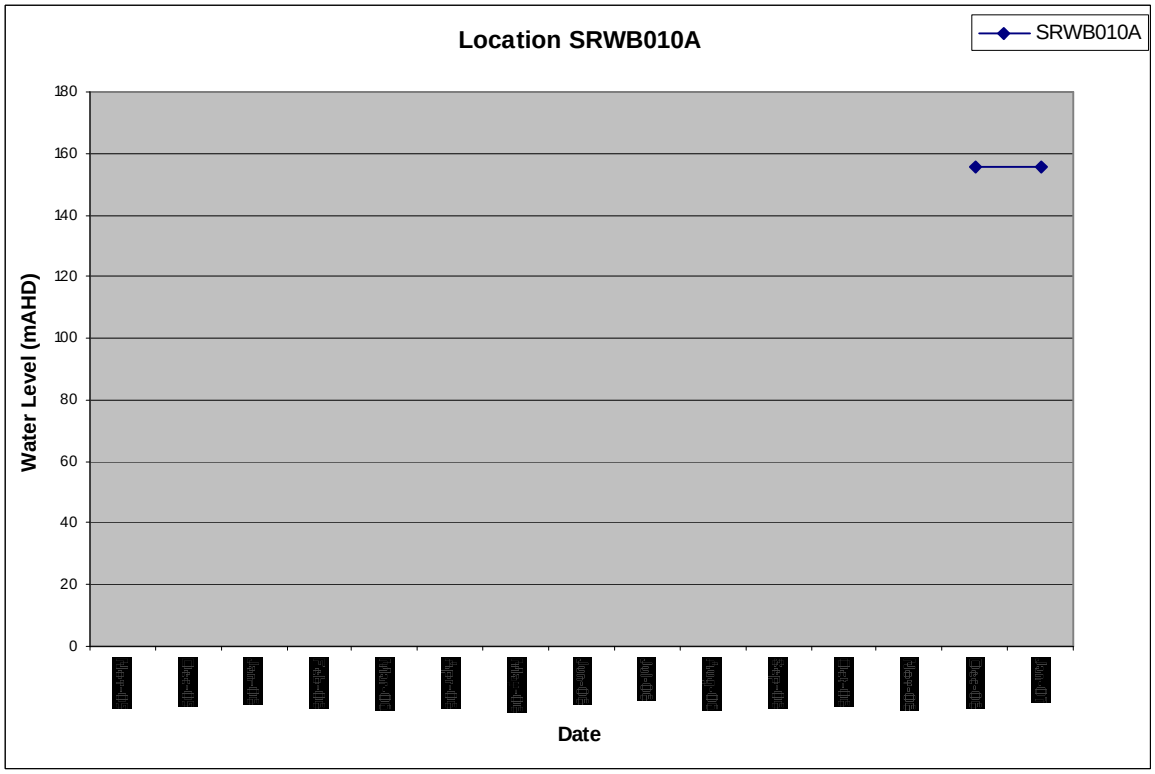
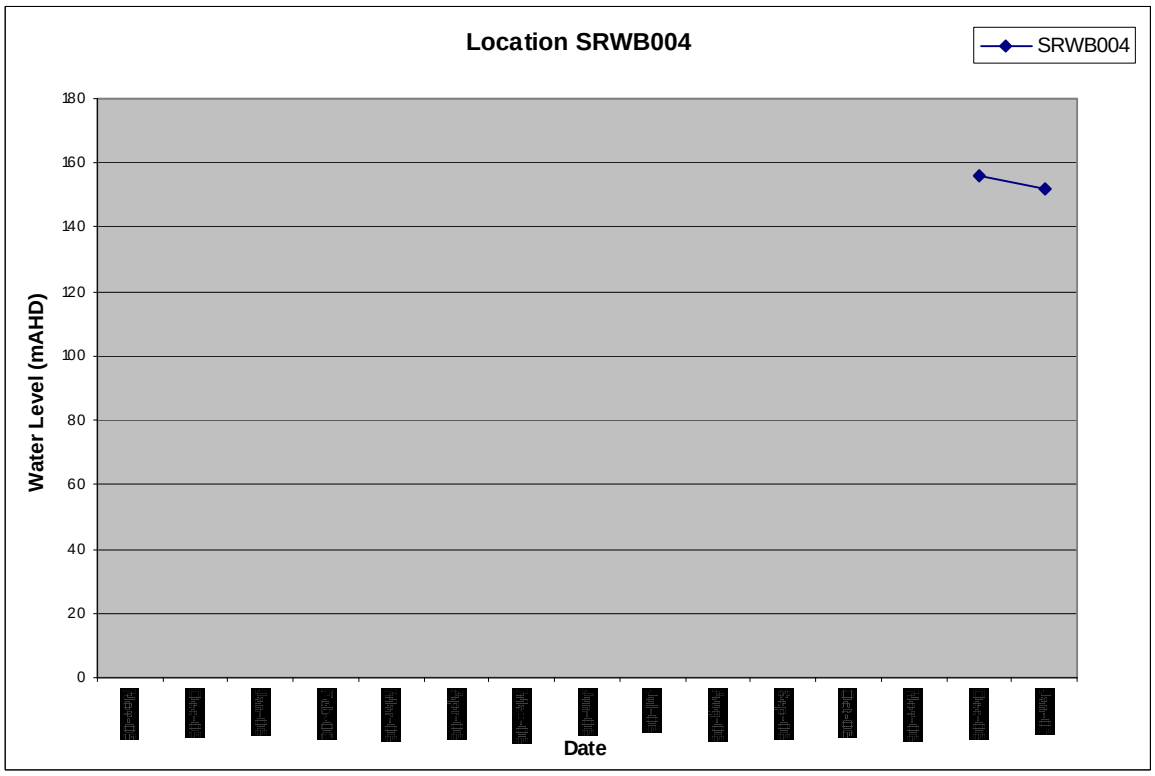
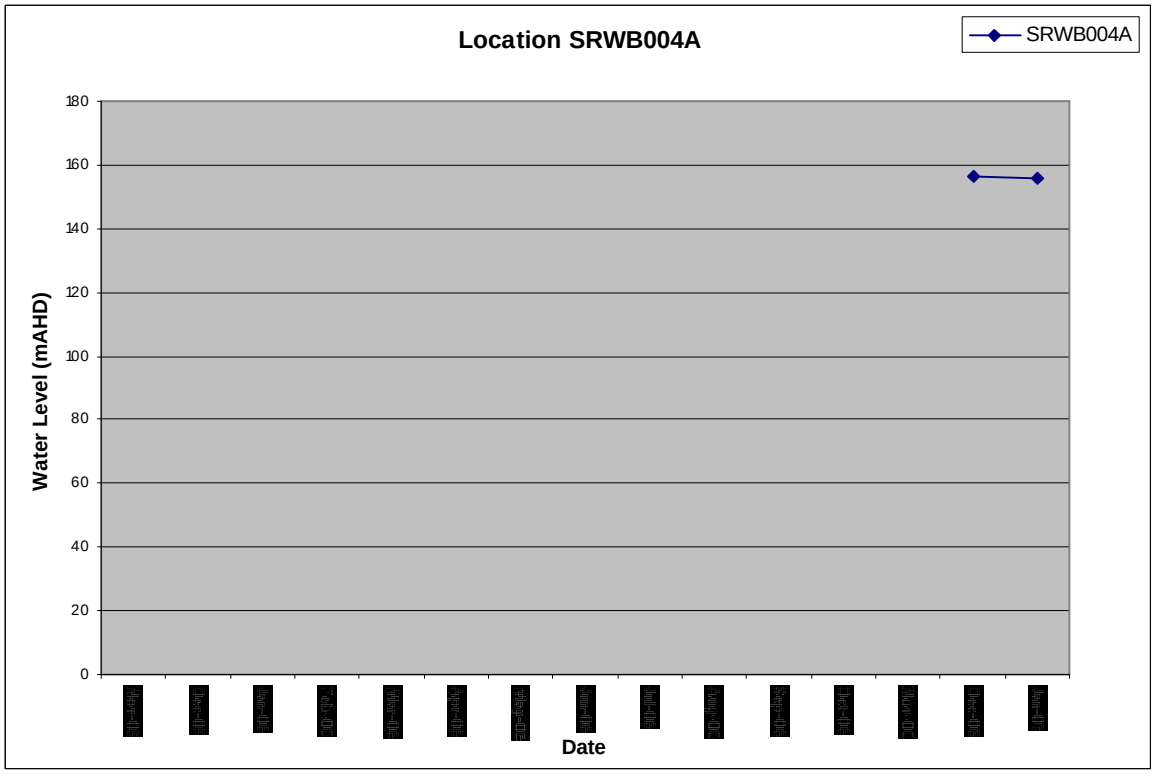
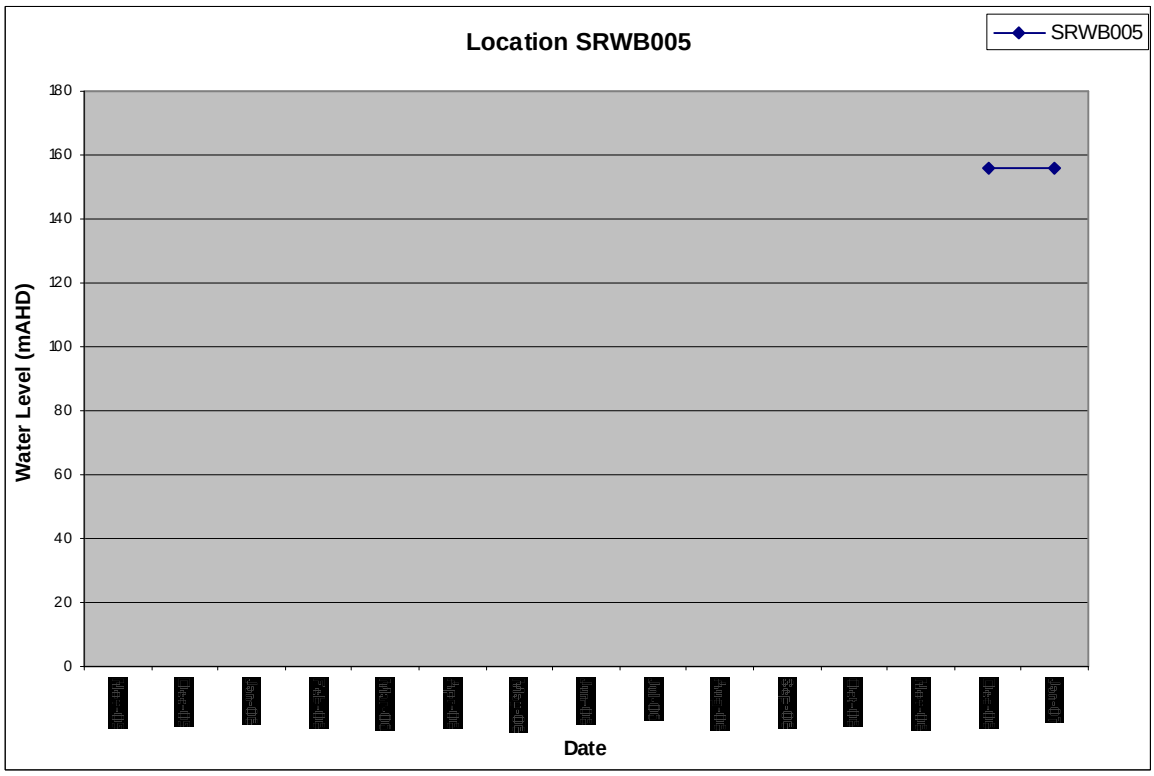
160
140
120
100
80
60
40
20
0
Date


Location SRWB010A
SRWB010A
Water Level (mAHD)
180
160
140
120
100
80
60
40
20
0
Date


Location SRWB004
SRWB004
Water Level (mAHD)
180
160
140
120
100
80
60
40
20
0
Date


Location SRWB004A
SRWB004A
Water Level (mAHD)
180
160
140
120
100
80
60
40
20
0
Date


Location SRWB005
SRWB005
Water Level (mAHD)
180
160
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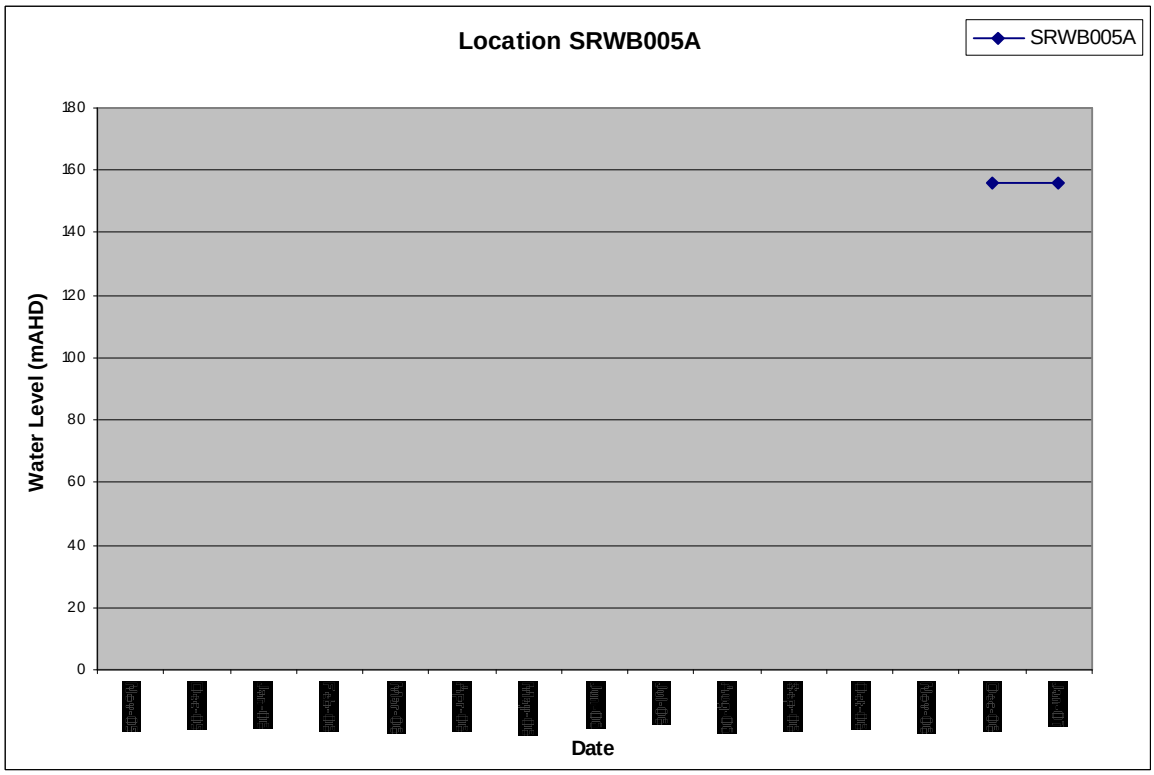
120
100
80
60
40
20
0
Date


Location SRWB005A
SRWB005A
Water Level (mAHD)
180
160
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120
100
80
60
40
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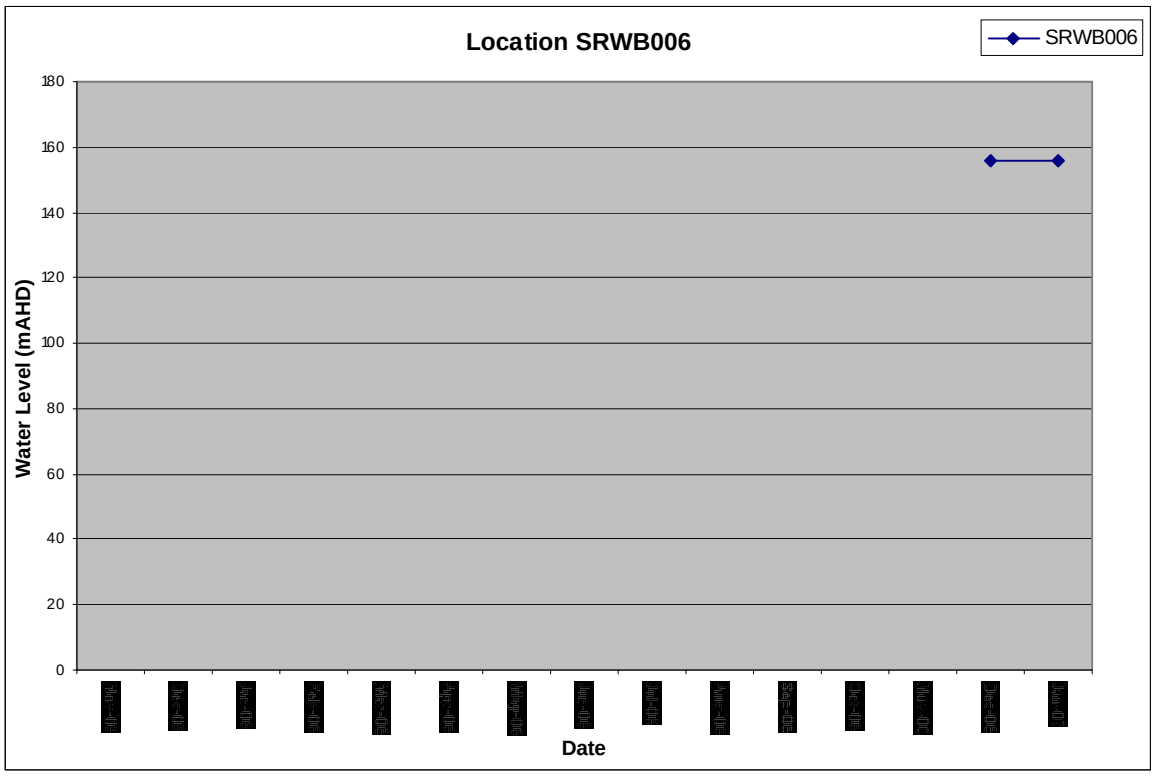
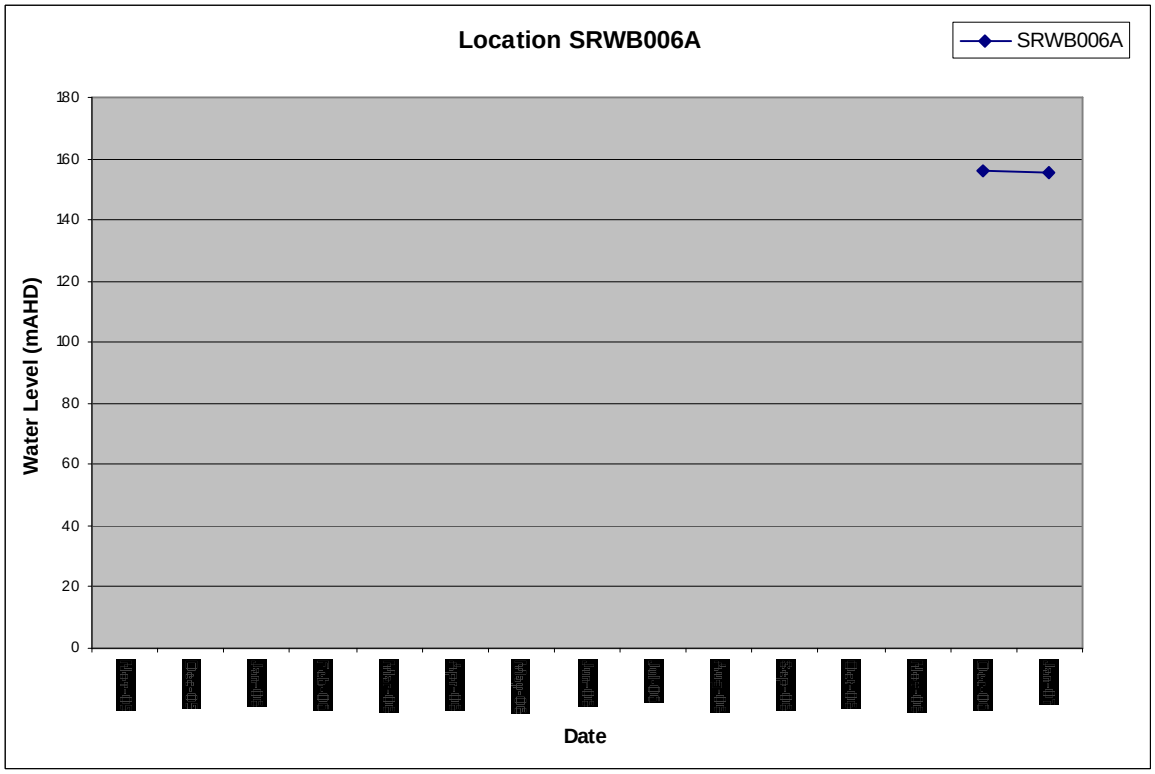
0
Date


Location SRWB006
SRWB006
Water Level (mAHD)
180
160
140
120
100
80
60
40
20
0
Date


Location SRWB006A
SRWB006A
Water Level (mAHD)
180
160
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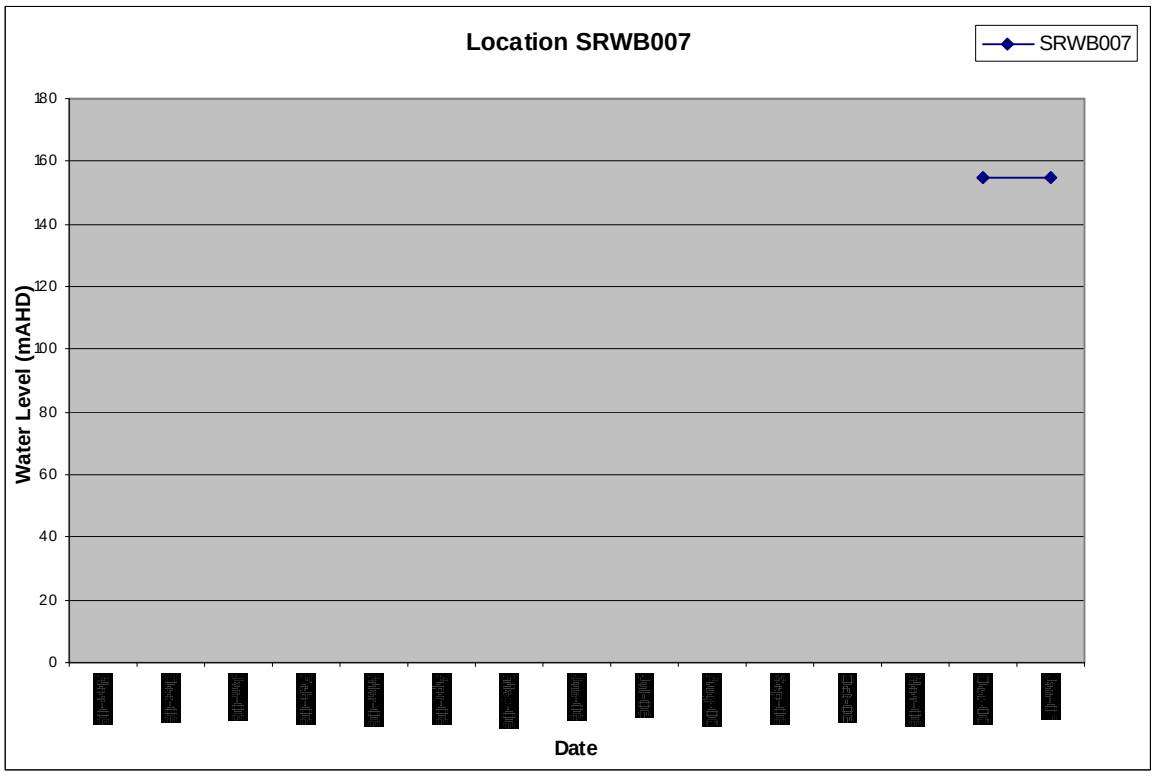
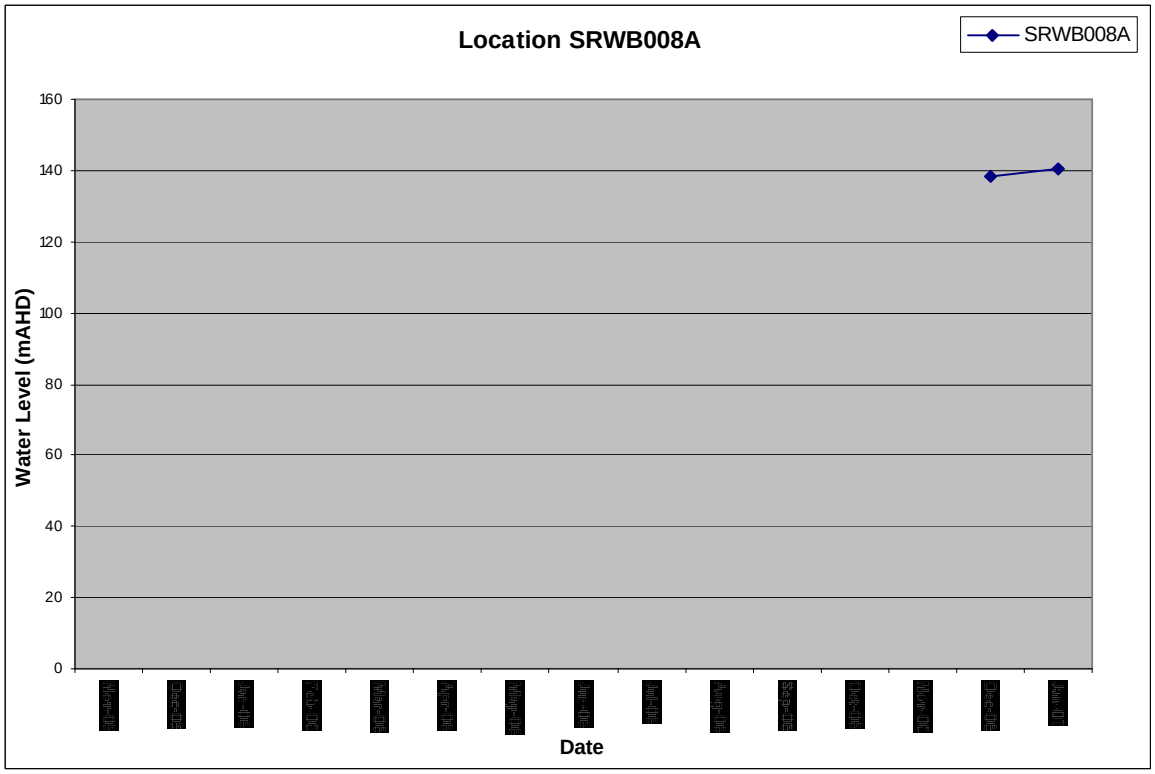
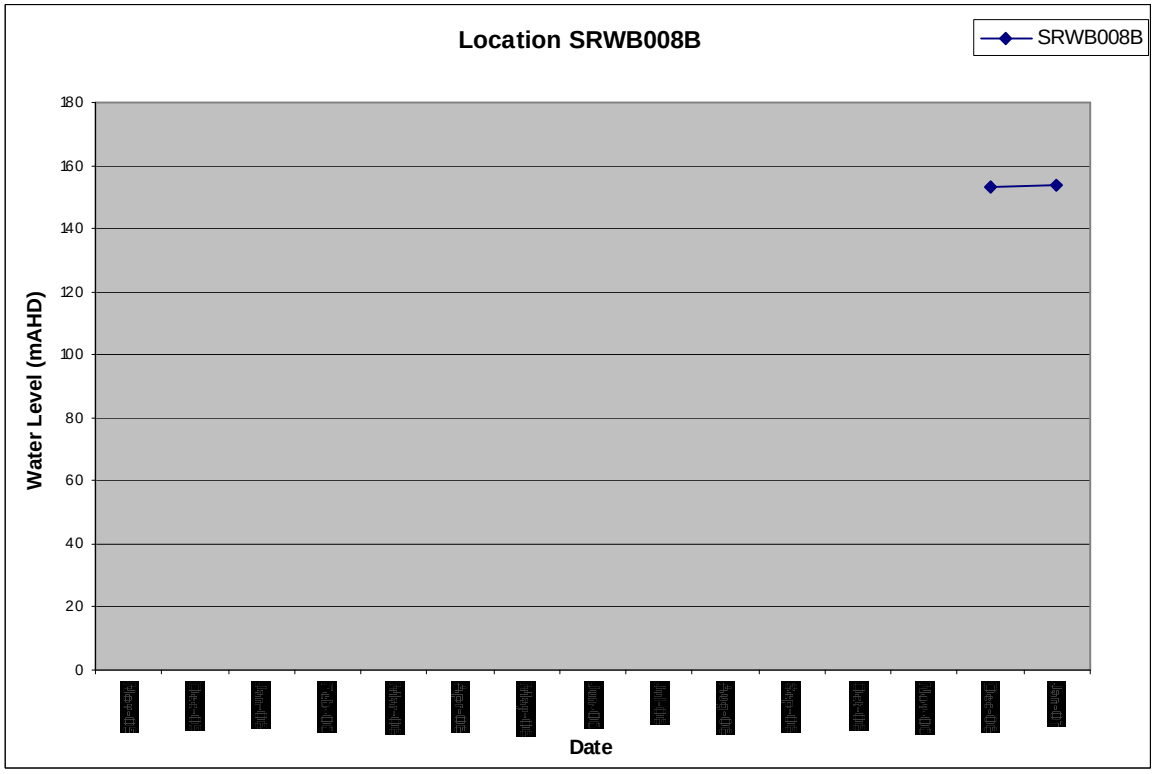
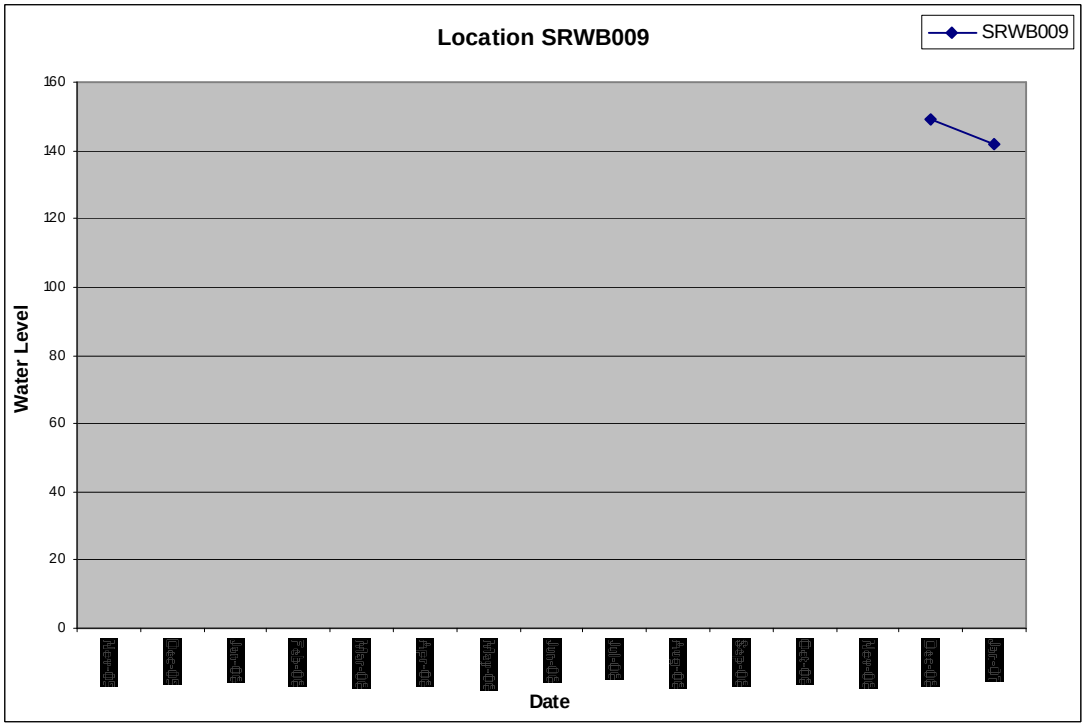
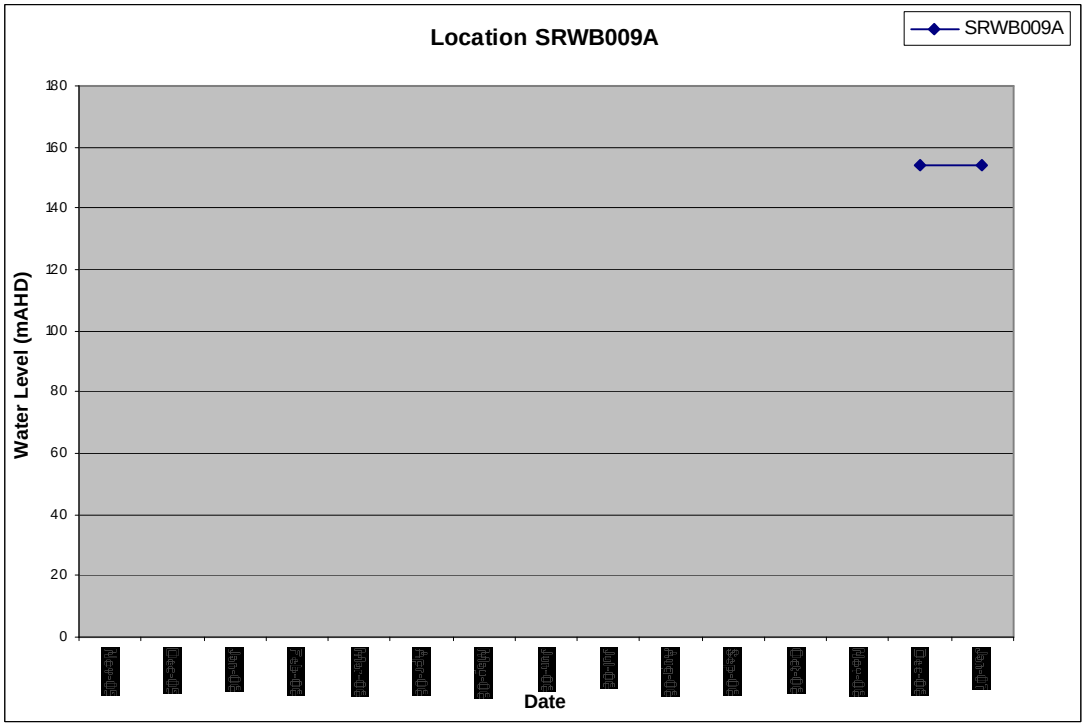
120
100
80
60
40
20
0
Date

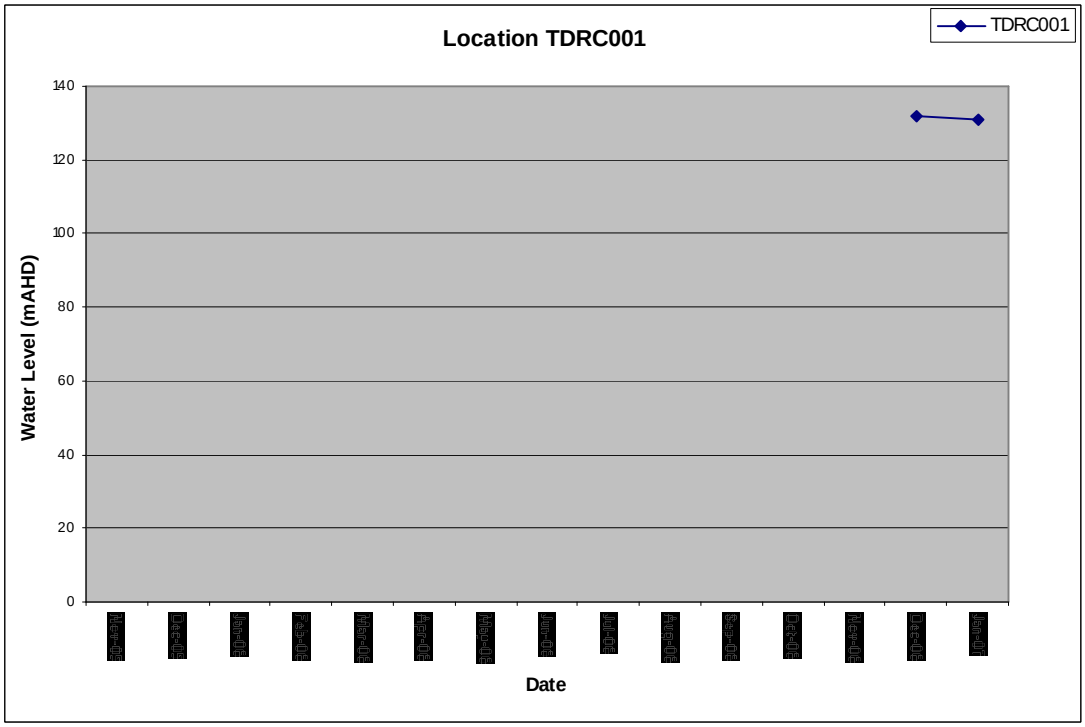

Location SRWB007
SRWB007
Water Level (mAHD)
180
160
140
120
100
80
60
40
20
0
Date

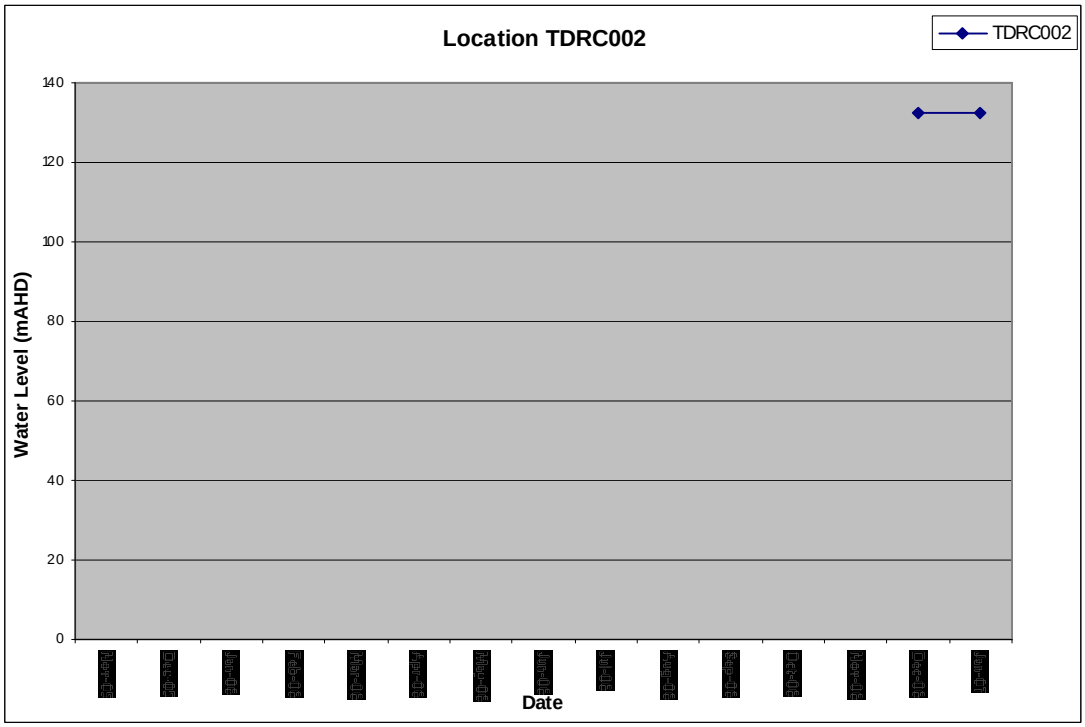

Location SRWB008A
SRWB008A
Water Level (mAHD)
160
140
120
100
80
60
40
20
0
Date

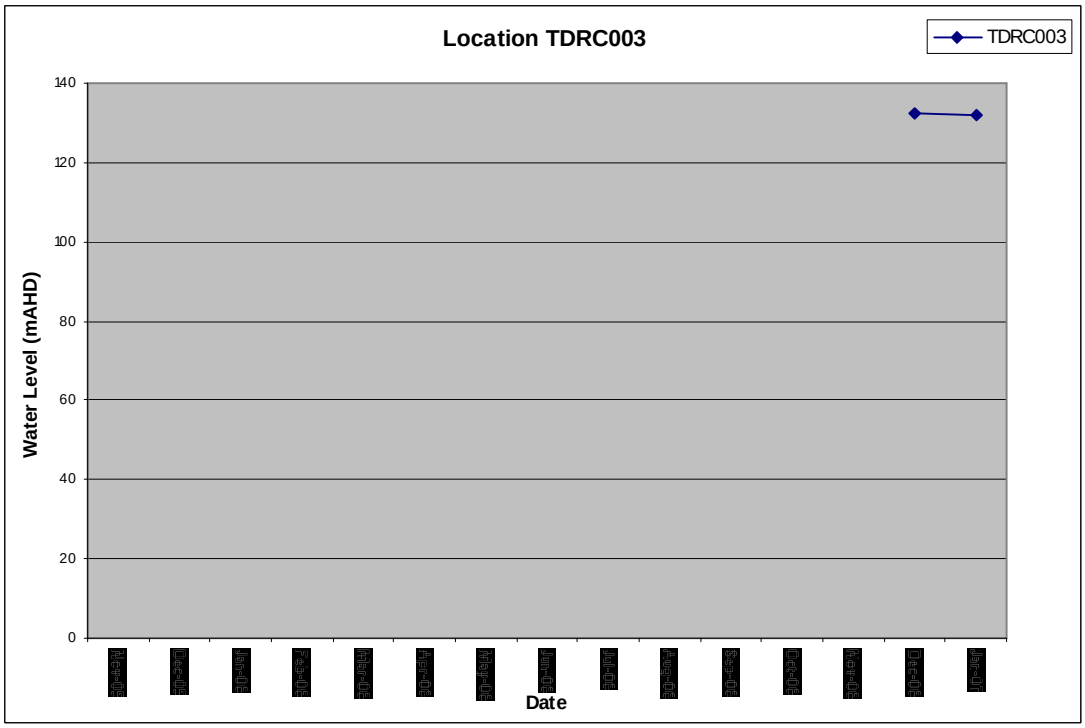

Location SRWB008B
SRWB008B
Water Level (mAHD)
180
160
140
120
100
80
60
40
20
0
Date

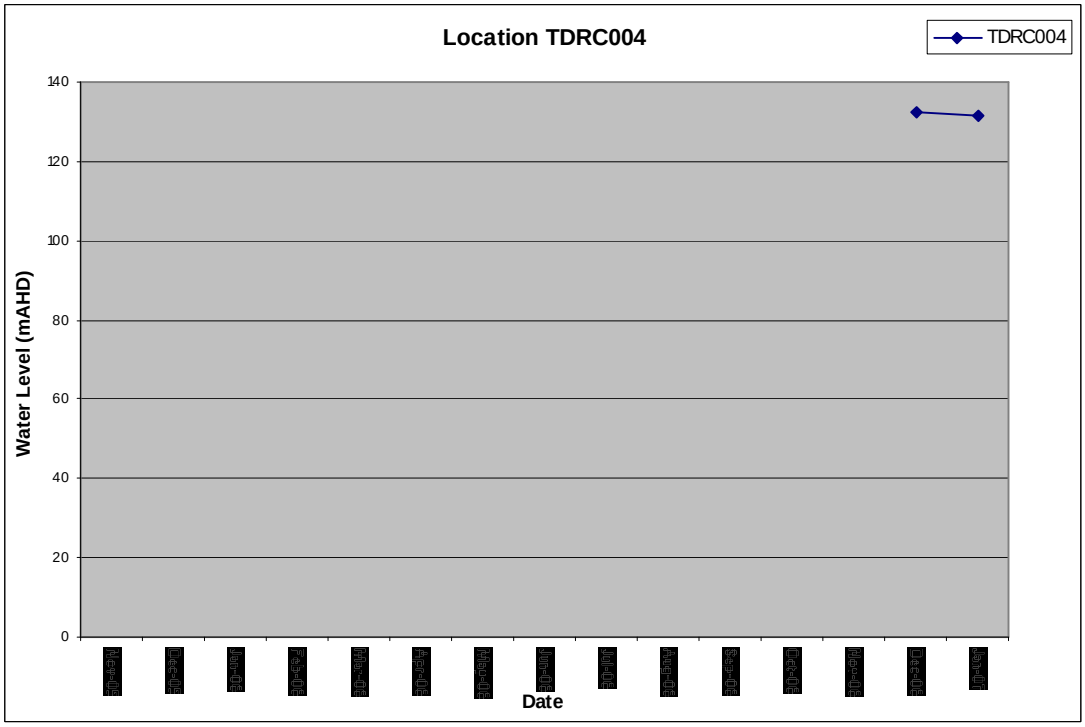

Location SRWB009
SRWB009
Water Level
160
140
120
100
80
60
40
20
0
Date

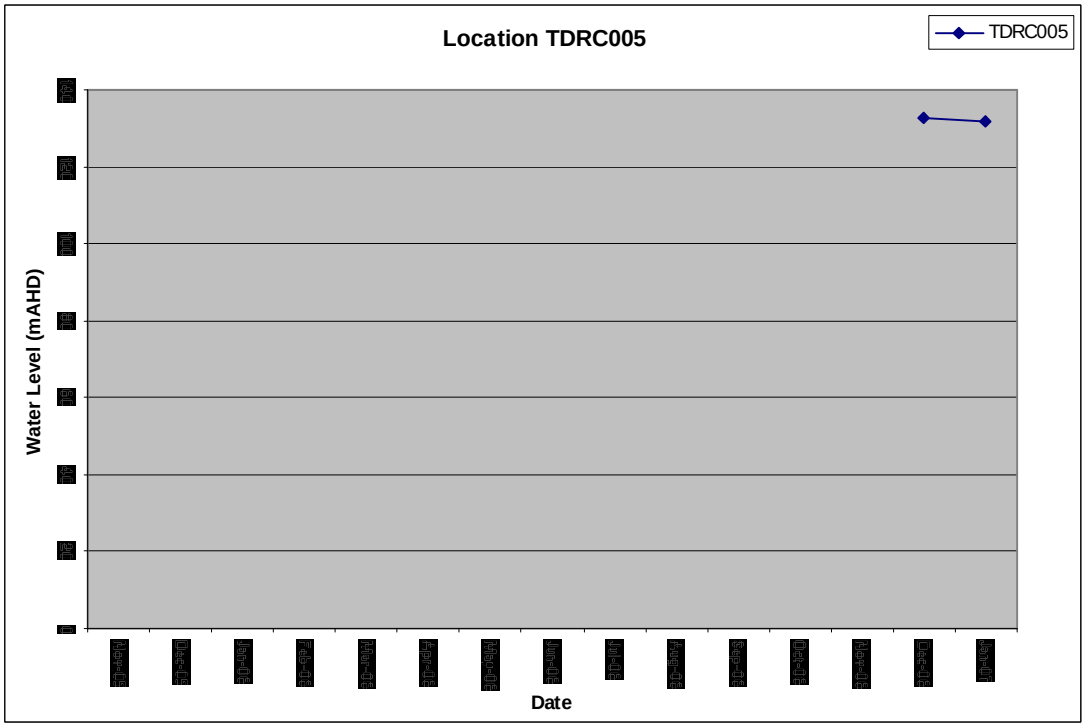

Location SRWB009A
SRWB009A
Water Level (mAHD)
180
160
140
120
100
80
60
40
20
0
Date

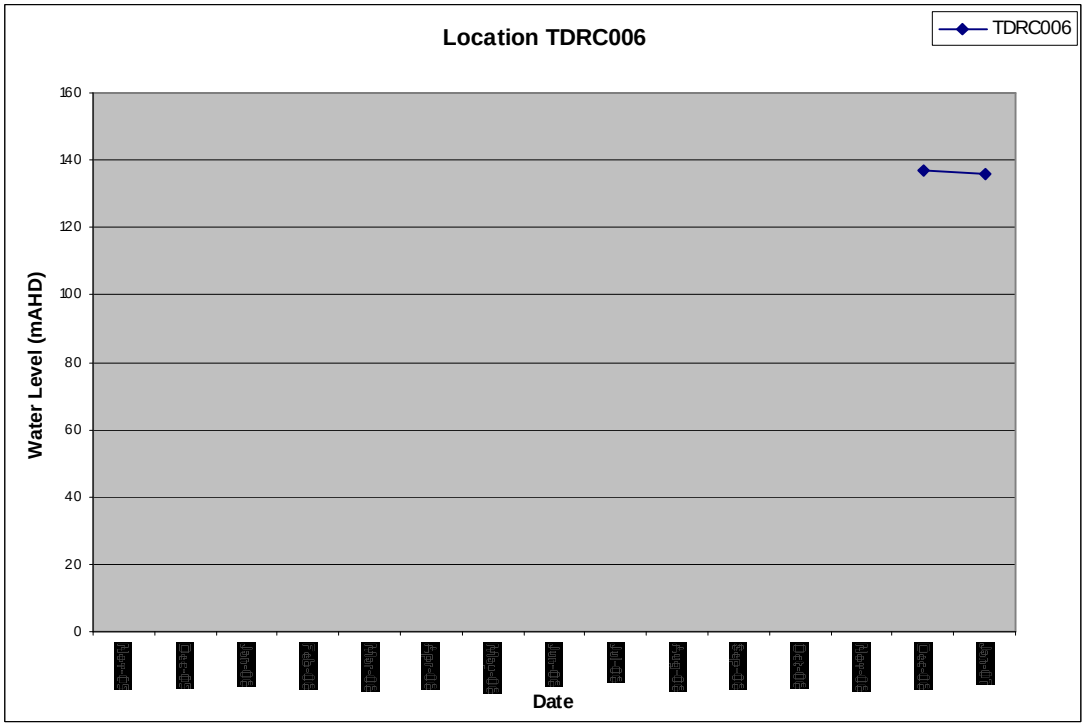

Location TDRC001
TDRC001
Water Level (mAHD)
140
120
100
80
60
40
20
0
Date

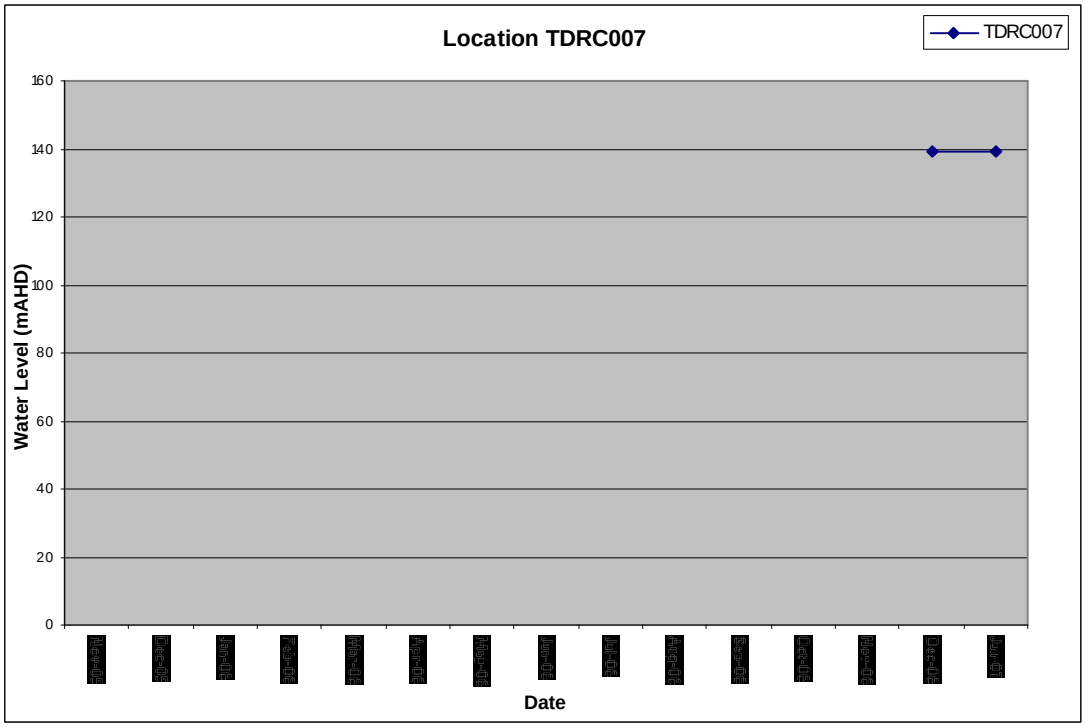

Location TDRC002
TDRC002
Water Level (mAHD)
140
120
100
80
60
40
20
0
Date

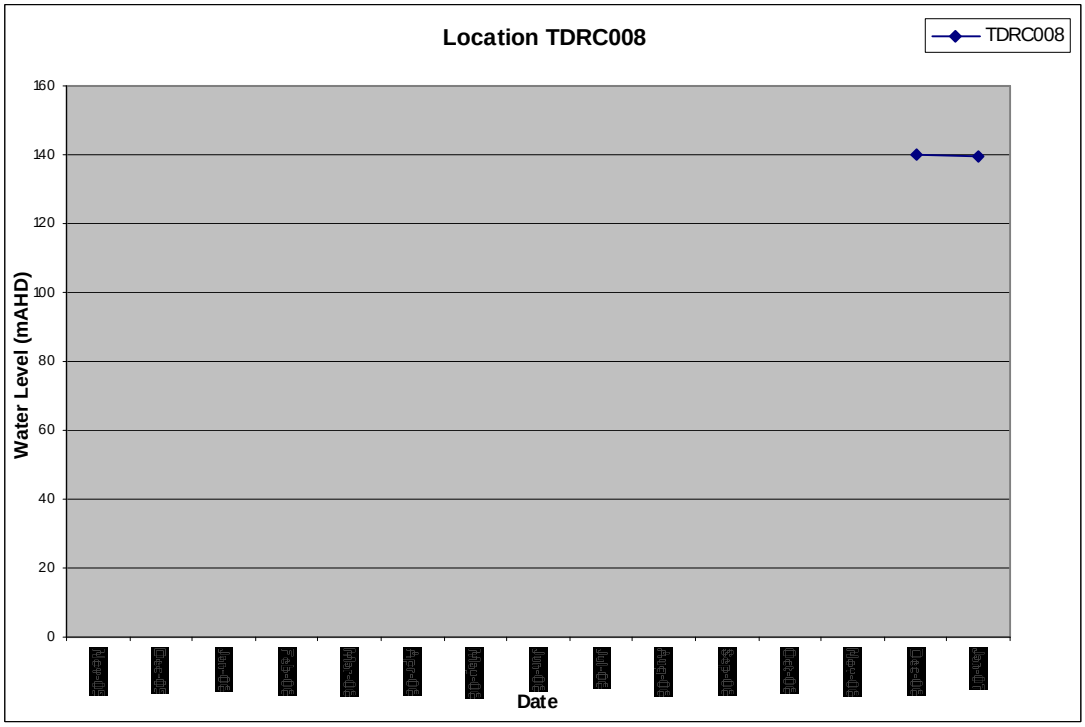

Location TDRC003
TDRC003
Water Level (mAHD)
140
120
100
80
60
40
20
0
Date

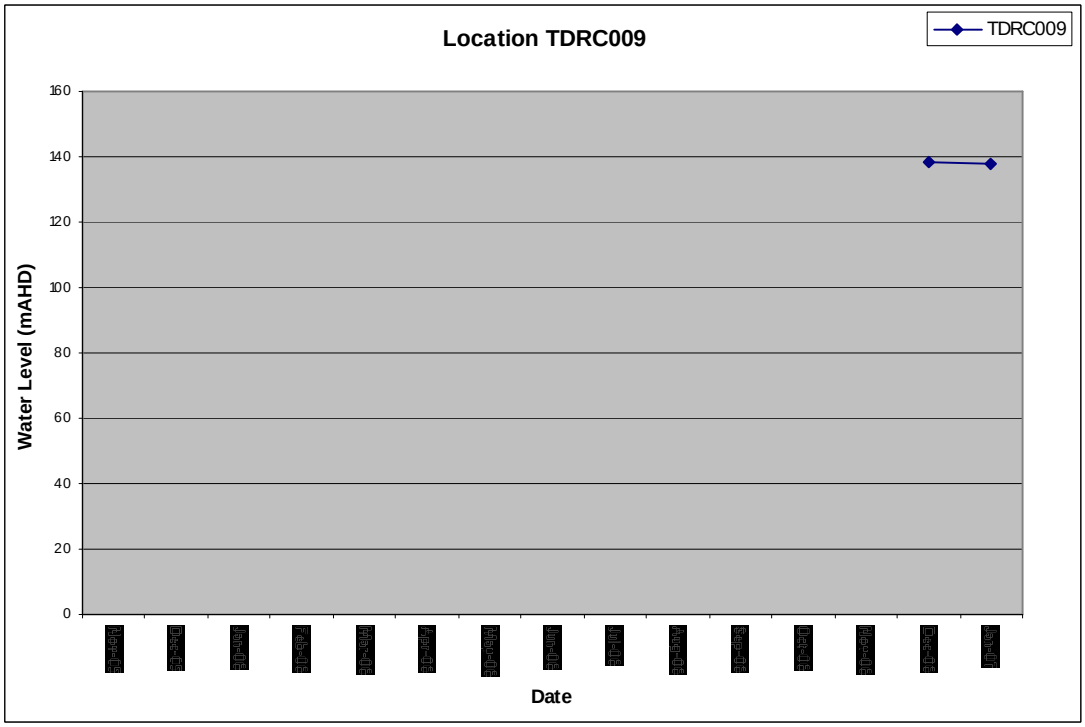

Location TDRC004
TDRC004
Water Level (mAHD)
140
120
100
80
60
40
20
0
Date


Location TDRC005
TDRC005
Water Level (mAHD)
Date


Location TDRC006
TDRC006
Water Level (mAHD)
160
140
120
100
80
60
40
20
0
Date


Location TDRC007
TDRC007
Water Level (mAHD)
160
140
120
100
80
60
40
20
0
Date


Location TDRC008
TDRC008
Water Level (mAHD)
160
140
120
100
80
60
40
20
0
Date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Water Level (mAHD)
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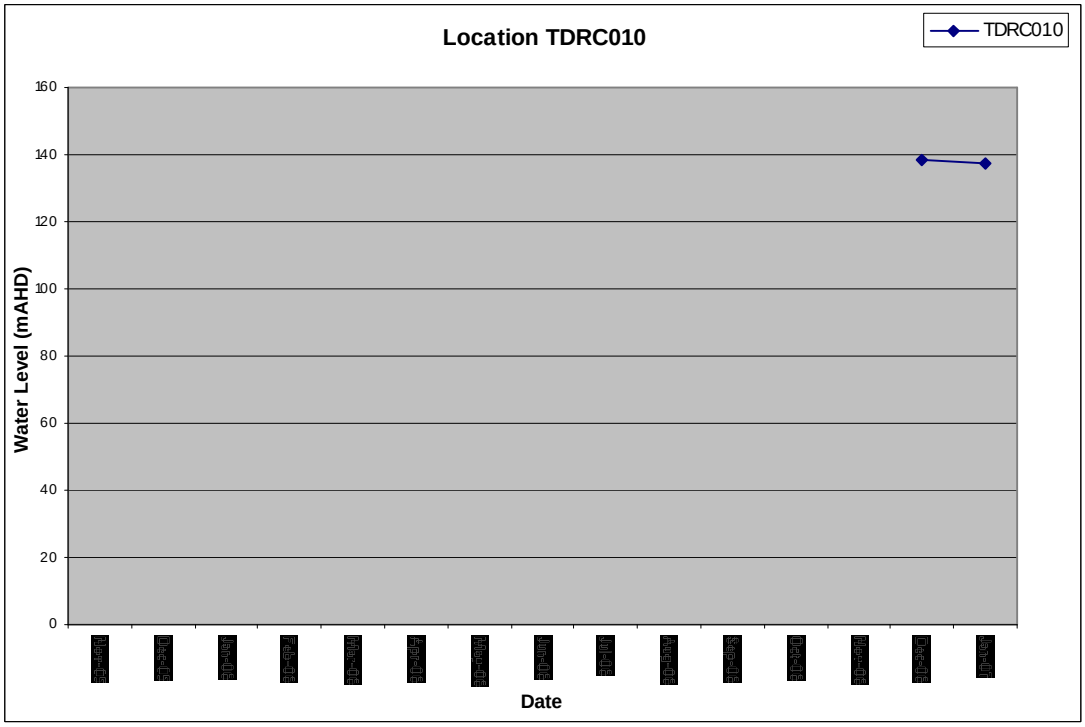
120
100
80
60
40
20
0
Date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Water Level (mAHD)
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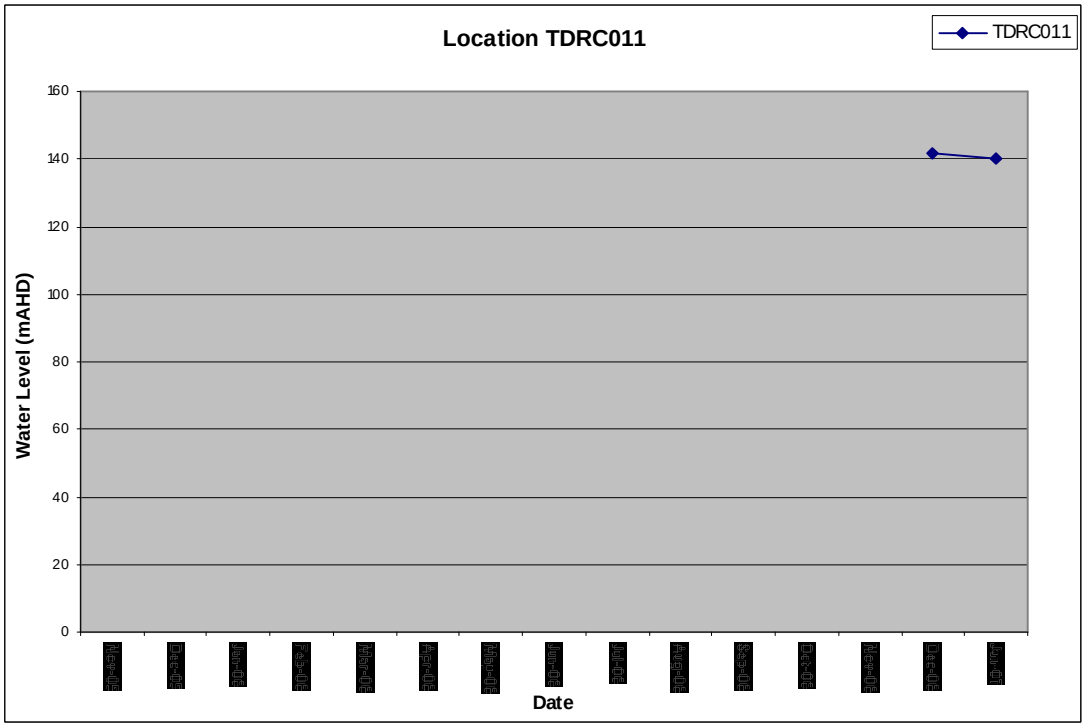
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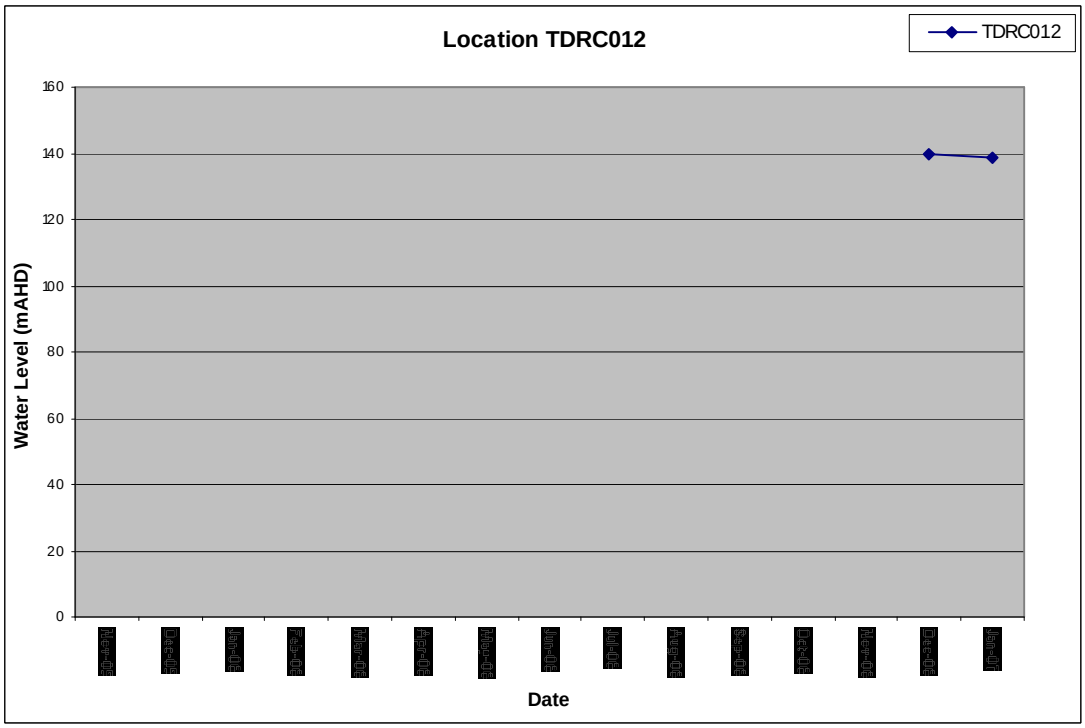
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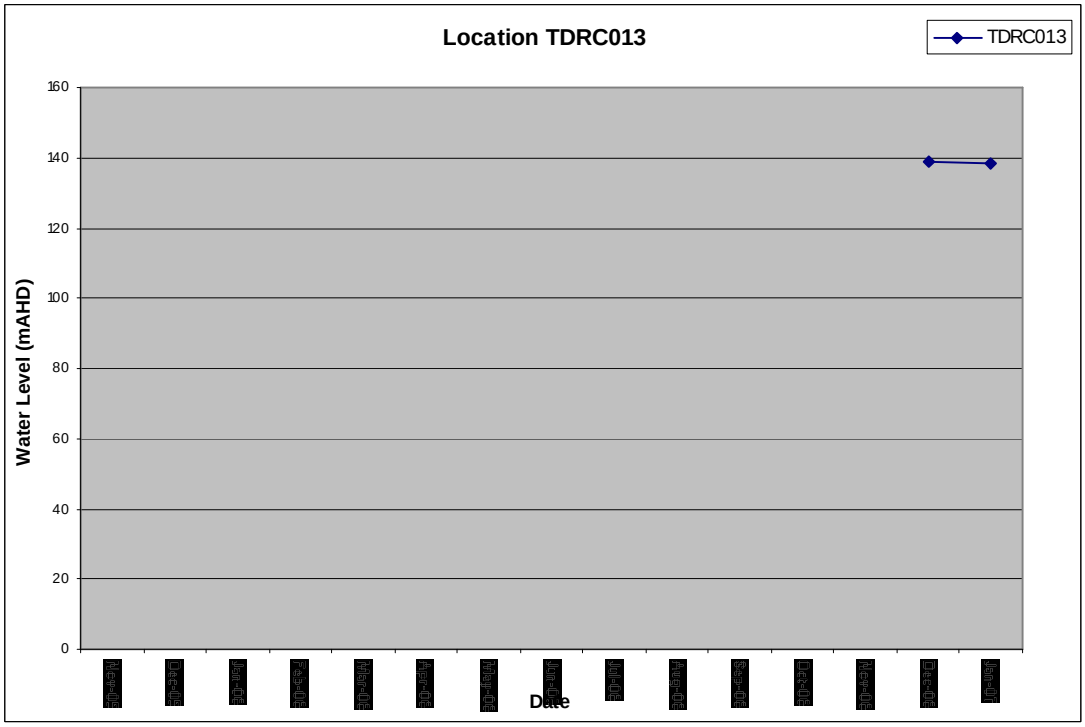
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Water Level (mAHD)
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Date

APPENDIX E

PLATES

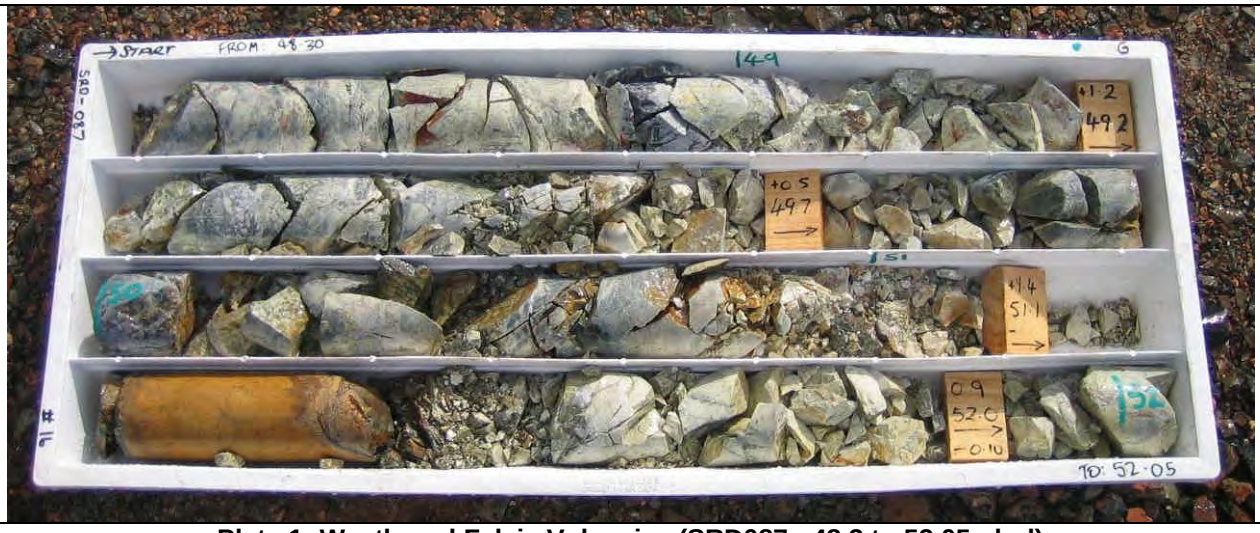

Plate 1: Weathered Felsic Volcanics (SRD087 - 48.3 to 52.05mbgl)

Typical of felsic volcanics where faulted – can be weathered to ~80mbgl.

Plate 2: Moderately Weathered Felsic Volcanics (SRD084 – 15.90 to 18.44mbgl)

Typical of Felsic Volcanic Rock Mass.

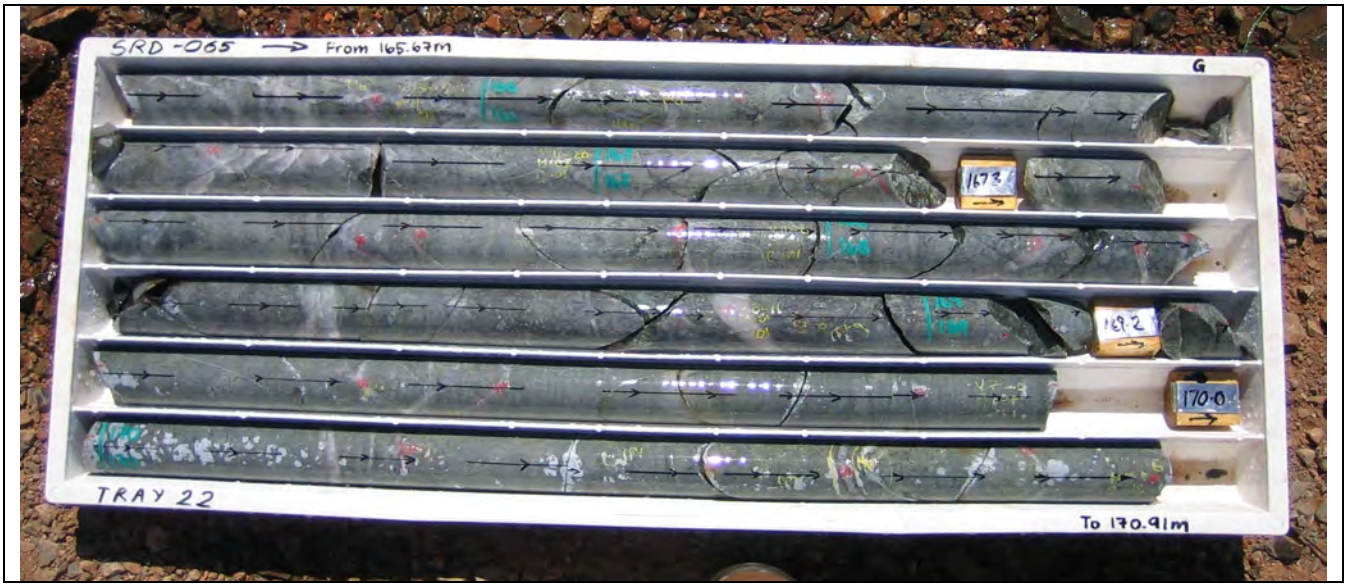

Plate 3: Fresh Felsic Volcanics (SRD065 - 145.67 – 170.91mbgl)

Typical of a majority of the rock mass where Felsic units are encountered (depths greater than 80mbgl).

Plate 4: Field exposure of Niminagarra BIF as seen at Coppin Gap.

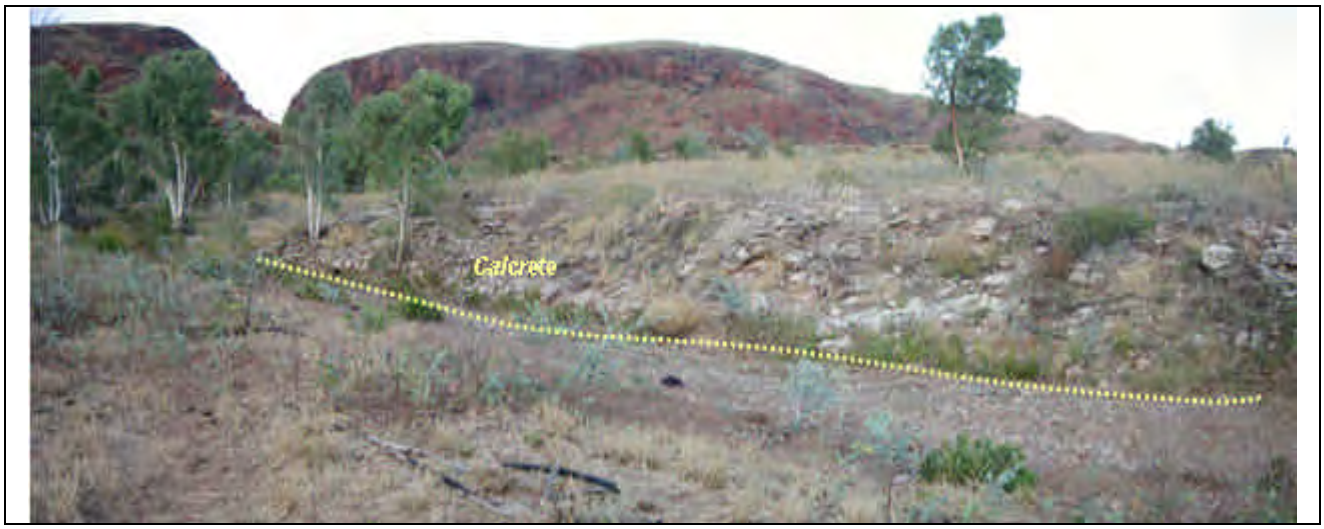

Plate 5: Calcretised zone as exposed over Ultramafic at SRWB06

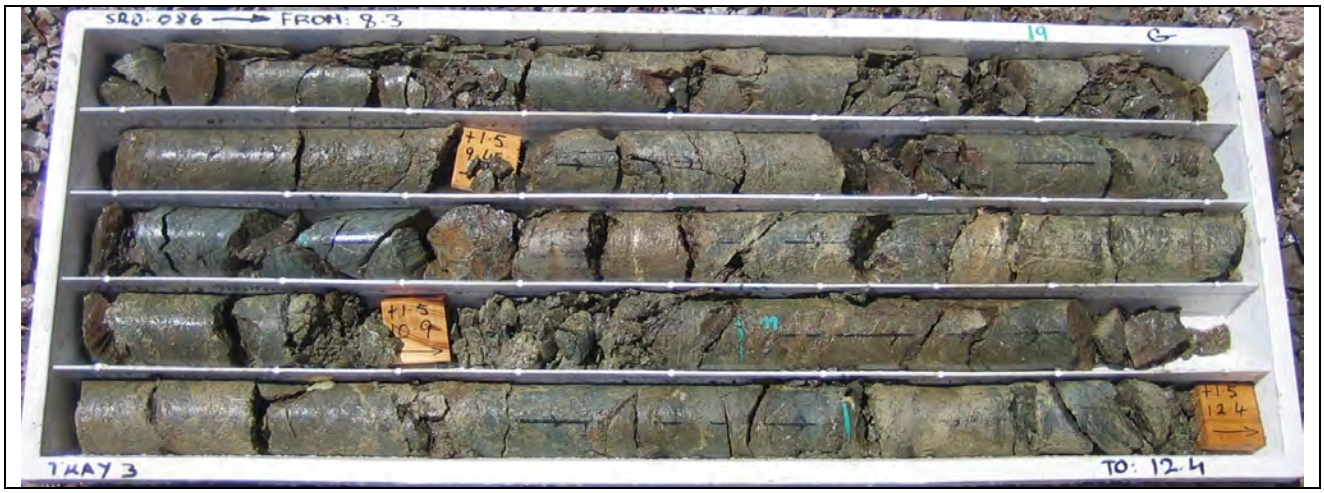

Plate 6:

Plate 7: Faulted/sheared ultramafic SRD035 – 57.64 – 62.86mbgl

Note: Intense veining with few open defects

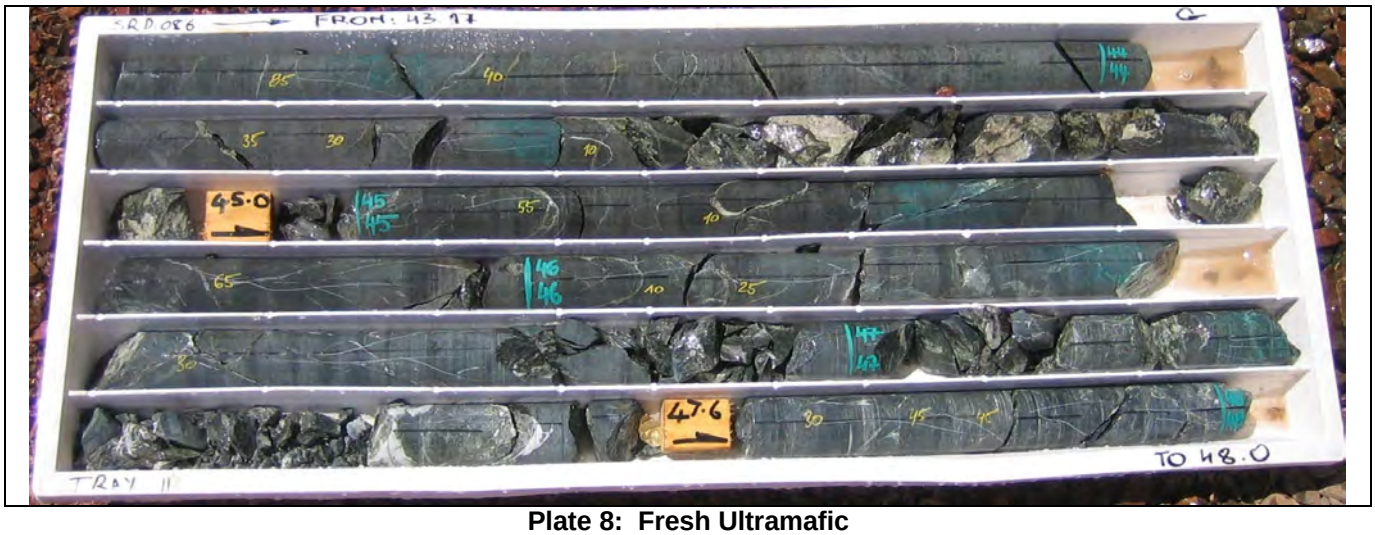

Plate 8: Fresh Ultramafic

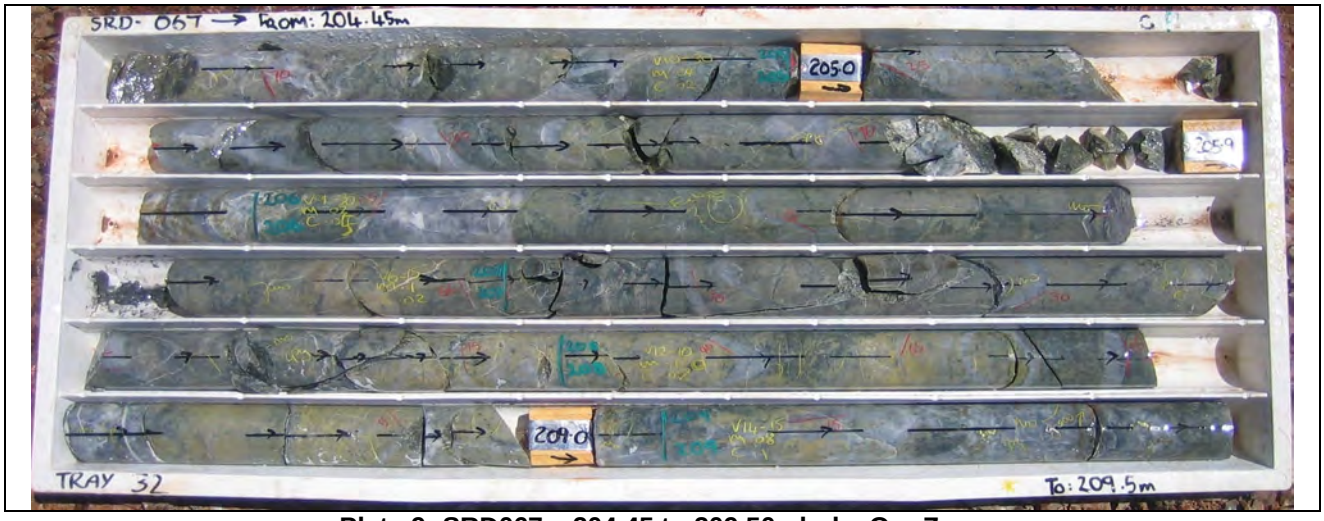

Plate 9: SRD067 – 204.45 to 209.50mbgl – Ore Zone

Mo ore zone within altered basalt

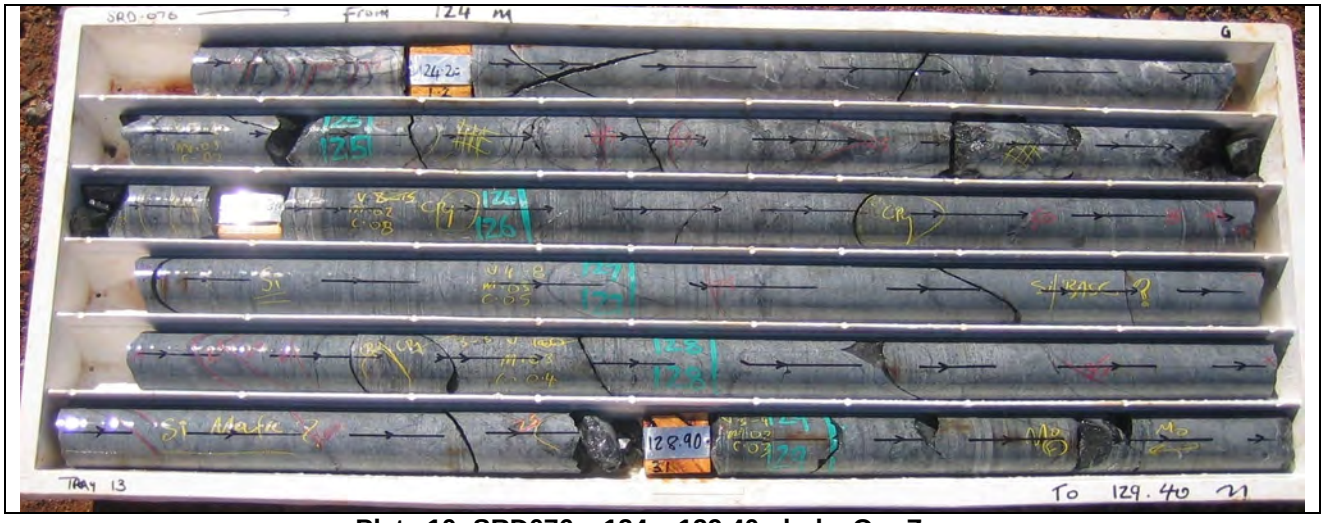

Plate 10: SRD076 – 124 – 129.40mbgl – Ore Zone

Mo Ore zone within altered mafic (highly silicified)

Plate 11: SRD088 – Surface to 3.90mbgl

Moderately weathered basalt near surface

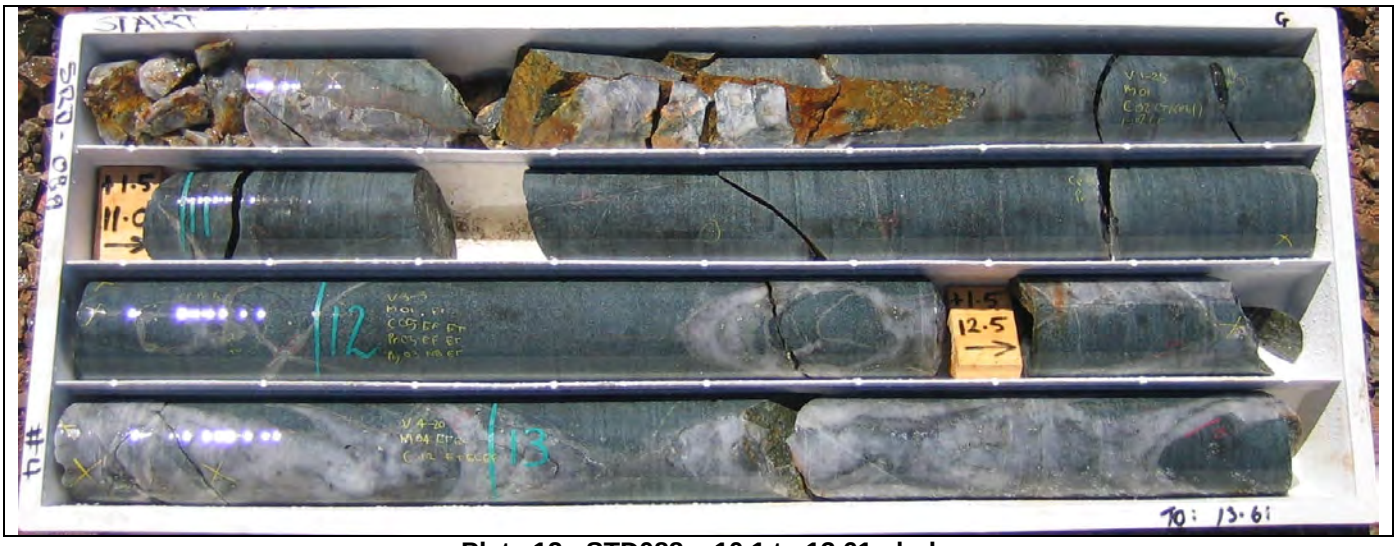

Plate 12: STD088 – 10.1 to 13.61mbgl

Weakly oxidised to fresh Basalt.