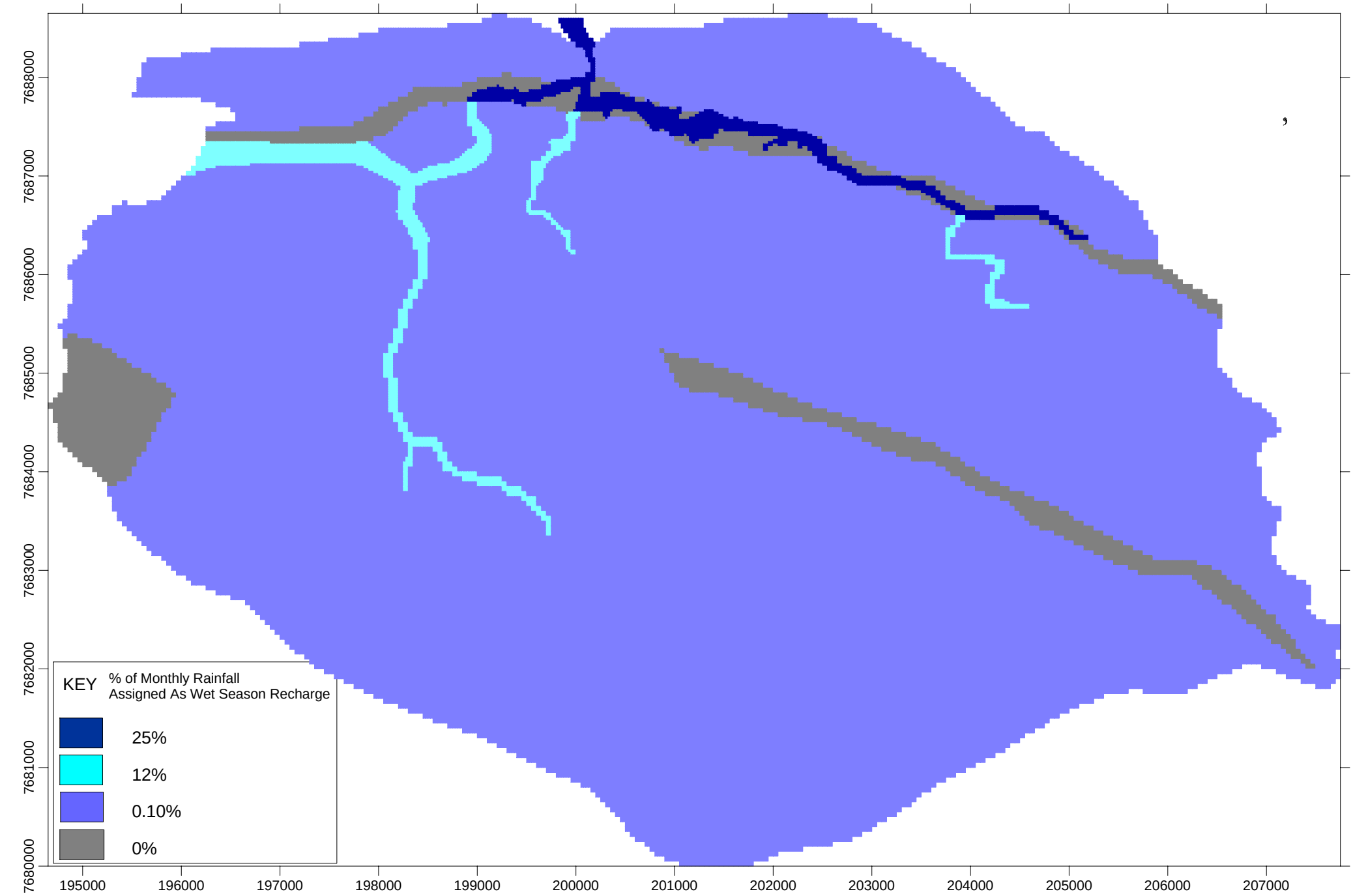

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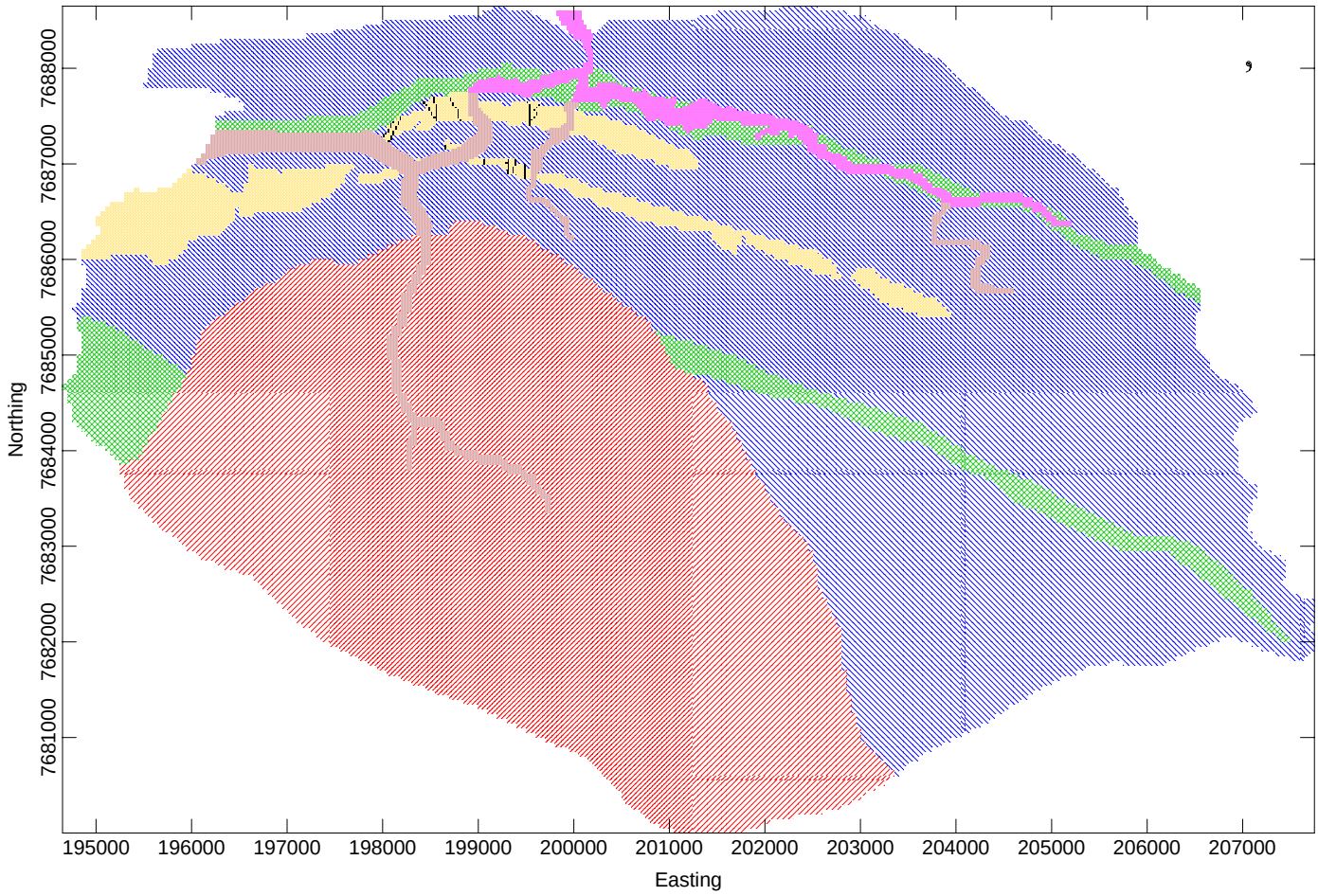
aquaterra

Rainfall Recharge Distribution
Figure 4.3



KEY	Aquifer Unit	Horizontal Hydraulic Conductivity (m/d)	Vertical Hydraulic Conductivity (m/d)	Specific Yield
	Calcrete	10	1	0.1
	Alluvials	5	0.5	0.1
	BIF	0.01	0.01	0.005
	Felsic	0.05	0.05	0.005
	Basalt	0.01	0.01	0.005
	Ultramafic	0.0001	0.0001	0.001
	Granite	0.011	0.011	0.005
	Faults	0.1	0.1	0.005

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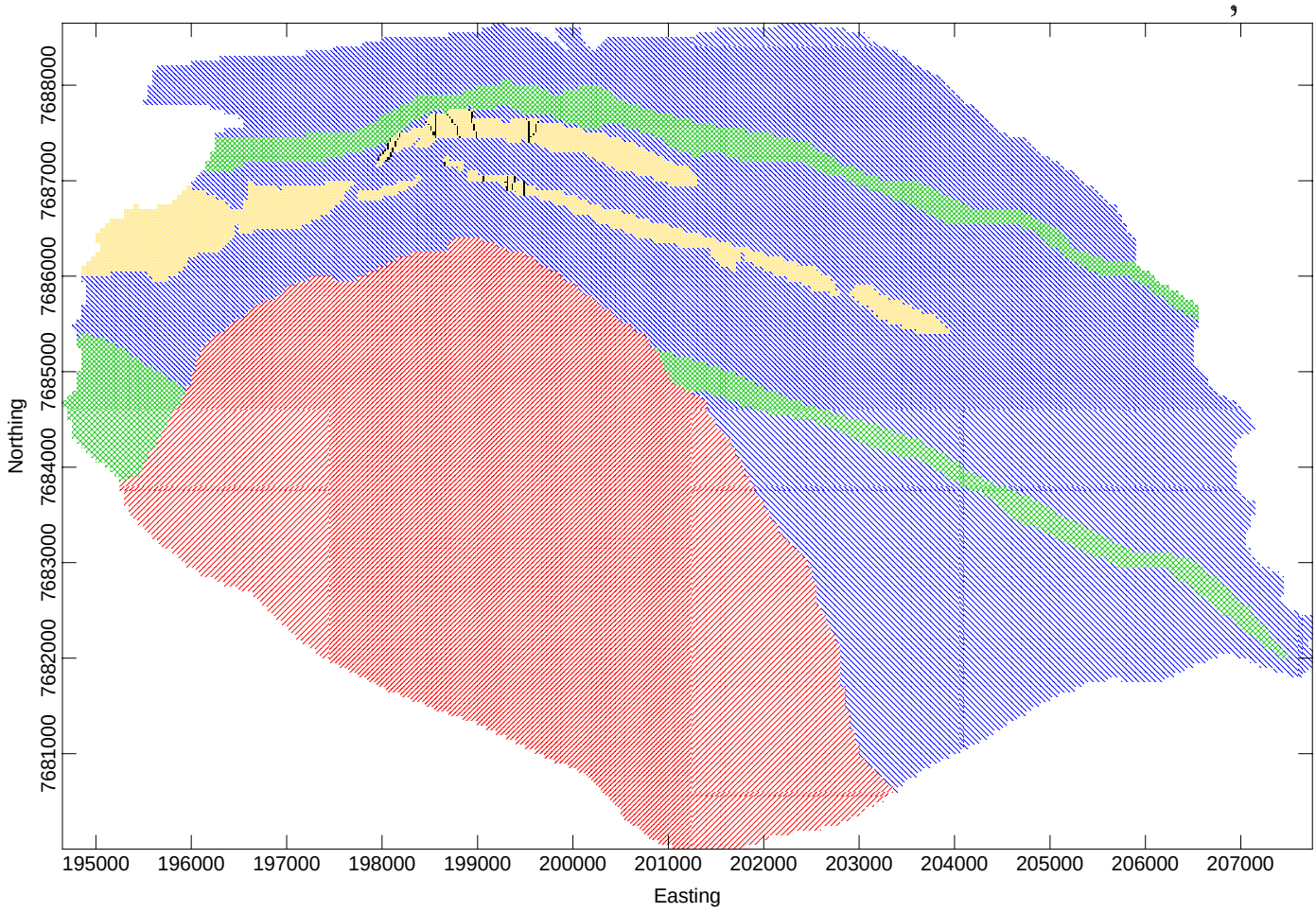
Aquifer Parameters in Layer 1
Figure 4.4



KEY	Aquifer Unit	Horizontal Hydraulic Conductivity (m/d)	Vertical Hydraulic Conductivity (m/d)	Specific Yield	Specific Storage
	BIF	0.01	0.01	0.005	1.5×10^{-7}
	Felsic	0.05	0.05	0.005	1.5×10^{-7}
	Basalt	0.01	0.01	0.005	1.5×10^{-7}
	Ultramafic	0.0001	0.0001	0.001	1.5×10^{-7}
	Granite	0.011	0.011	0.005	1.5×10^{-7}
	Faults	0.1	0.1	0.005	1.5×10^{-7}

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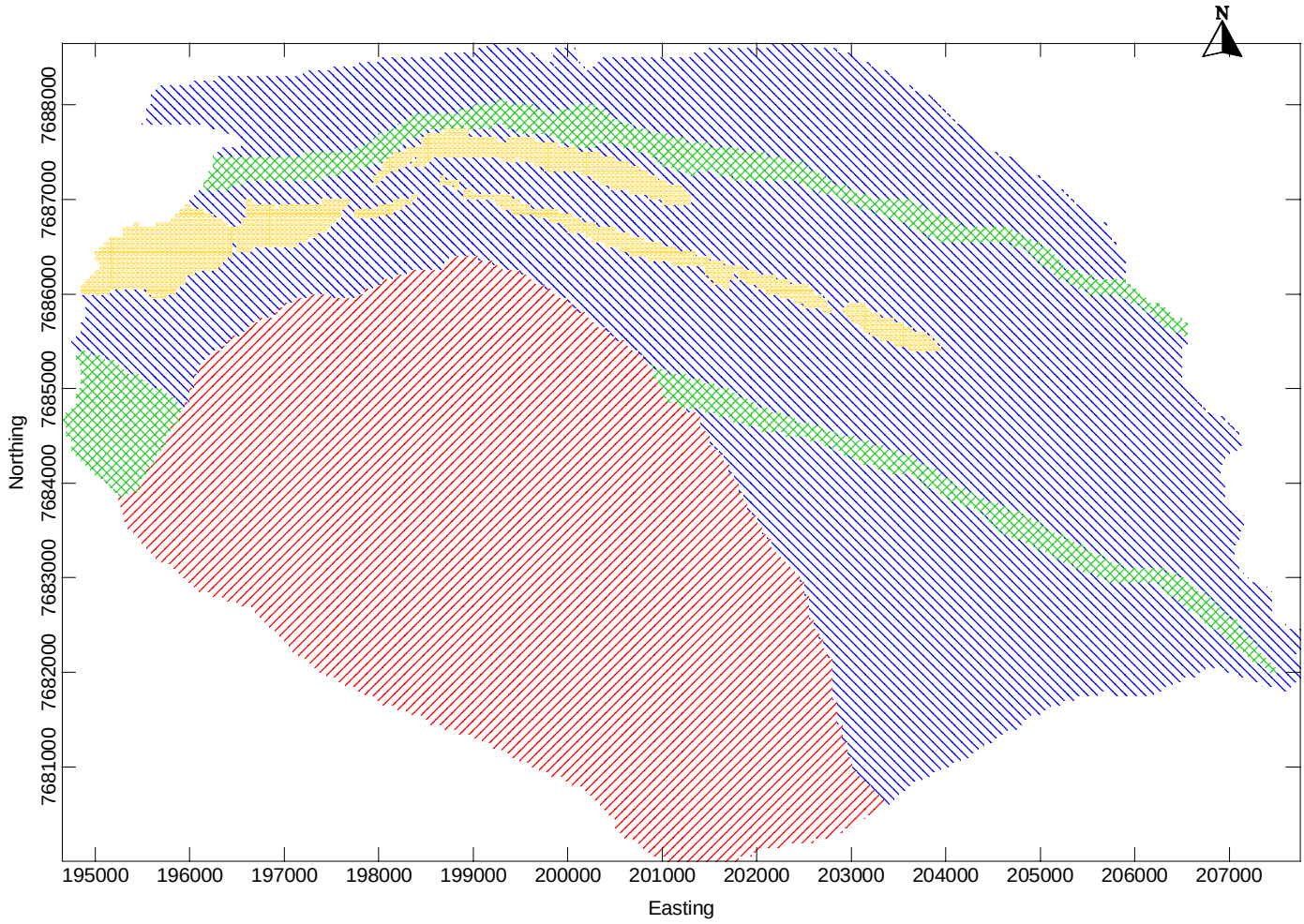
Aquifer Parameters in Layer 2
Figure 4.5



KEY	Aquifer Unit	Horizontal Hydraulic Conductivity (m/d)	Vertical Hydraulic Conductivity (m/d)	Specific Yield	Specific Storage
	BIF	0.001	0.001	0.001	2.5×10^{-8}
	Felsic	0.0011	0.0011	0.001	2.5×10^{-8}
	Basalt	0.001	0.001	0.001	2.5×10^{-8}
	Ultramafic	0.0001	0.0001	0.001	2.5×10^{-8}
	Granite	0.011	0.011	0.005	2.5×10^{-8}

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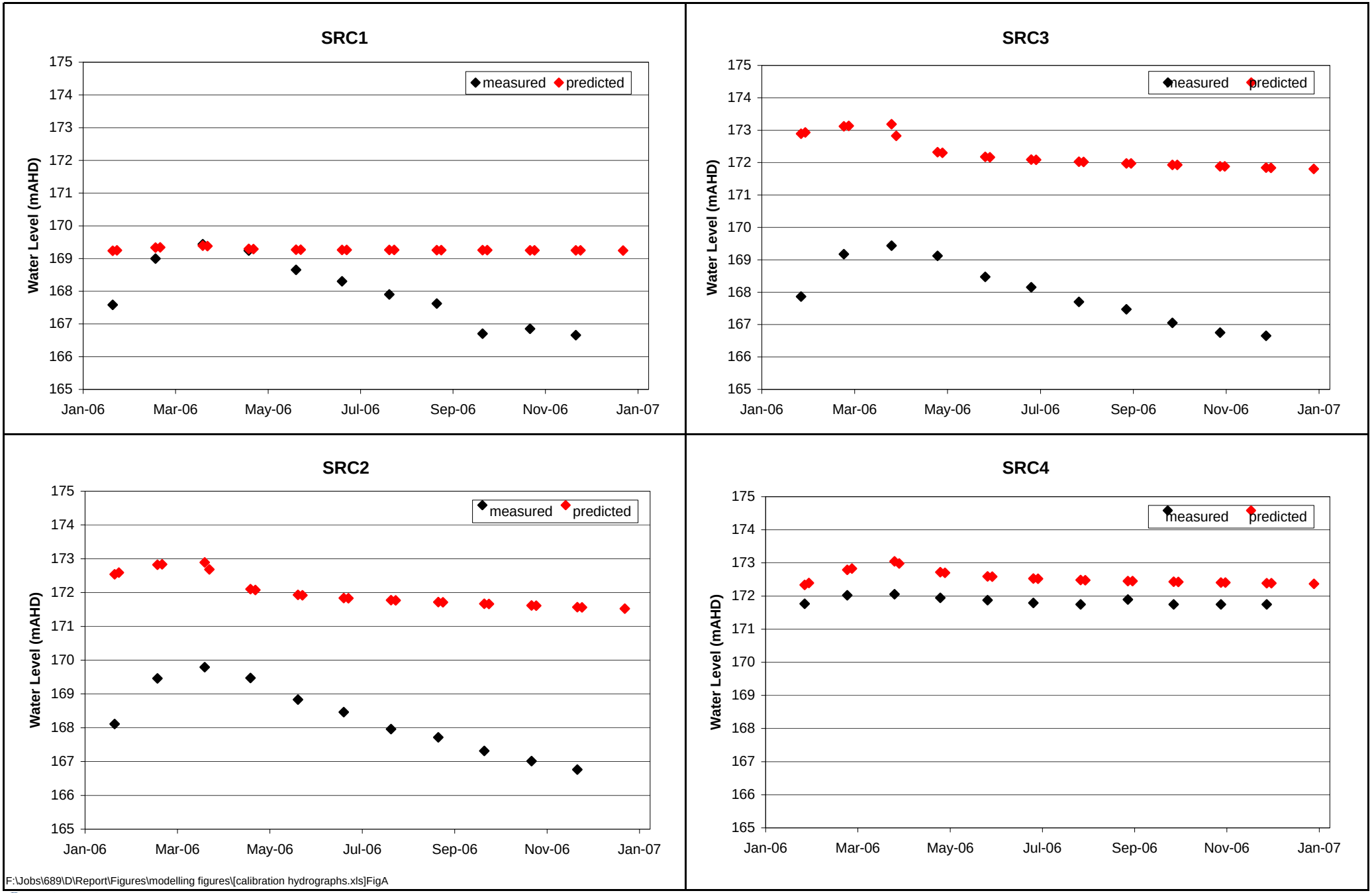
Aquifer Parameters in Layers 3 to 8
Figure 4.6



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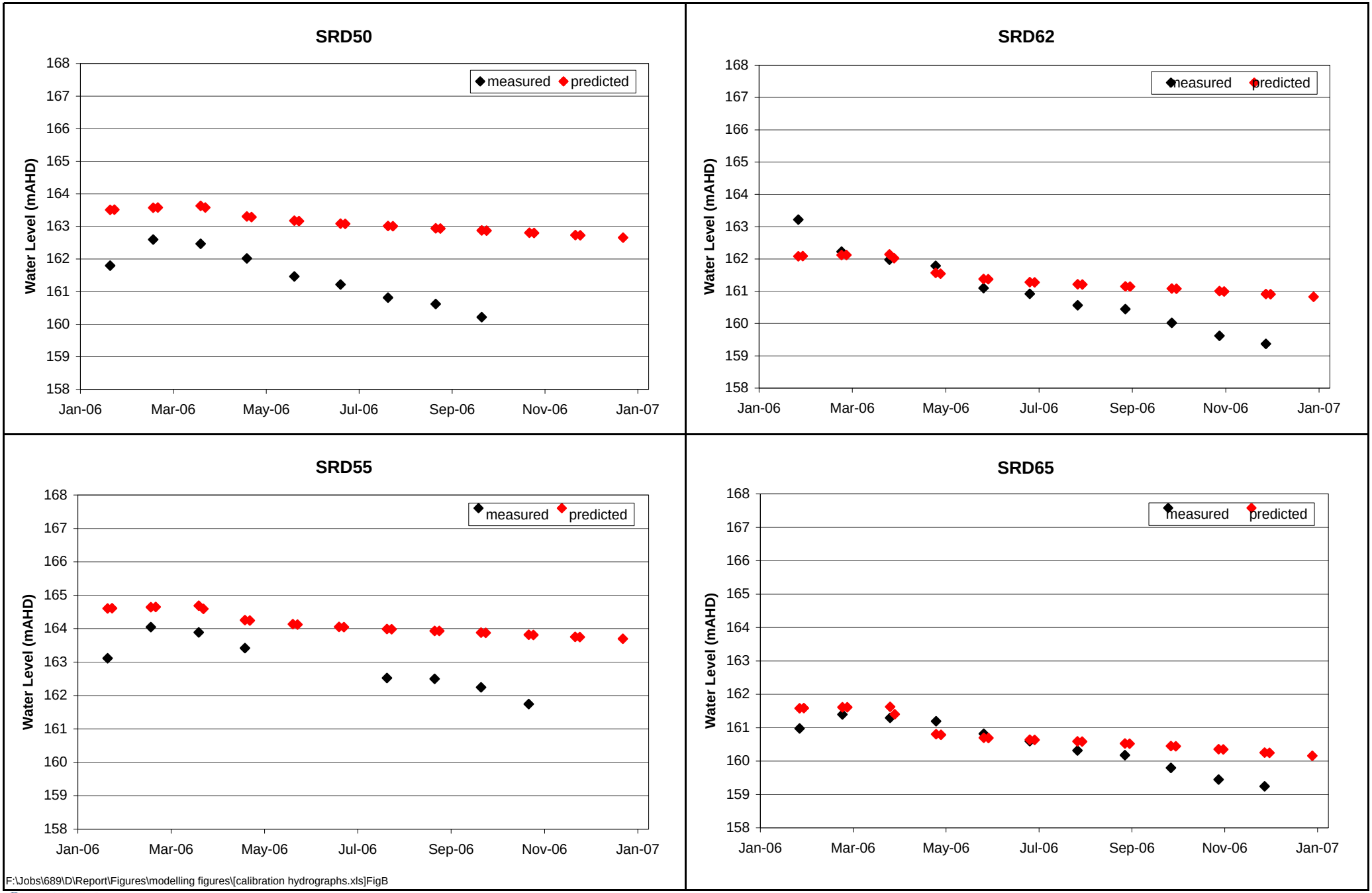
Calibration Hydrographs
Figure 4.7



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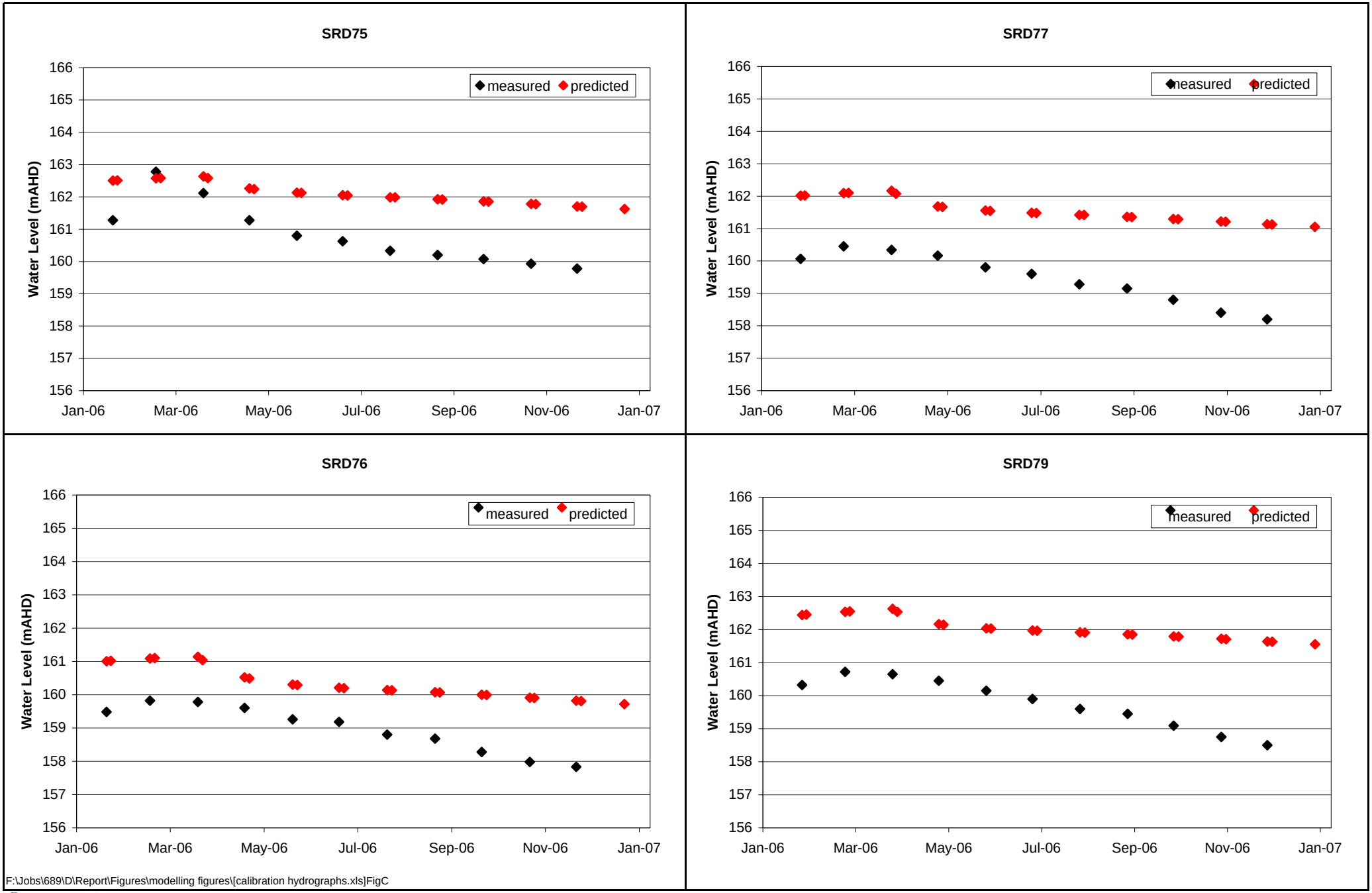
aquaterra

Calibration Hydrographs
Figure 4.8



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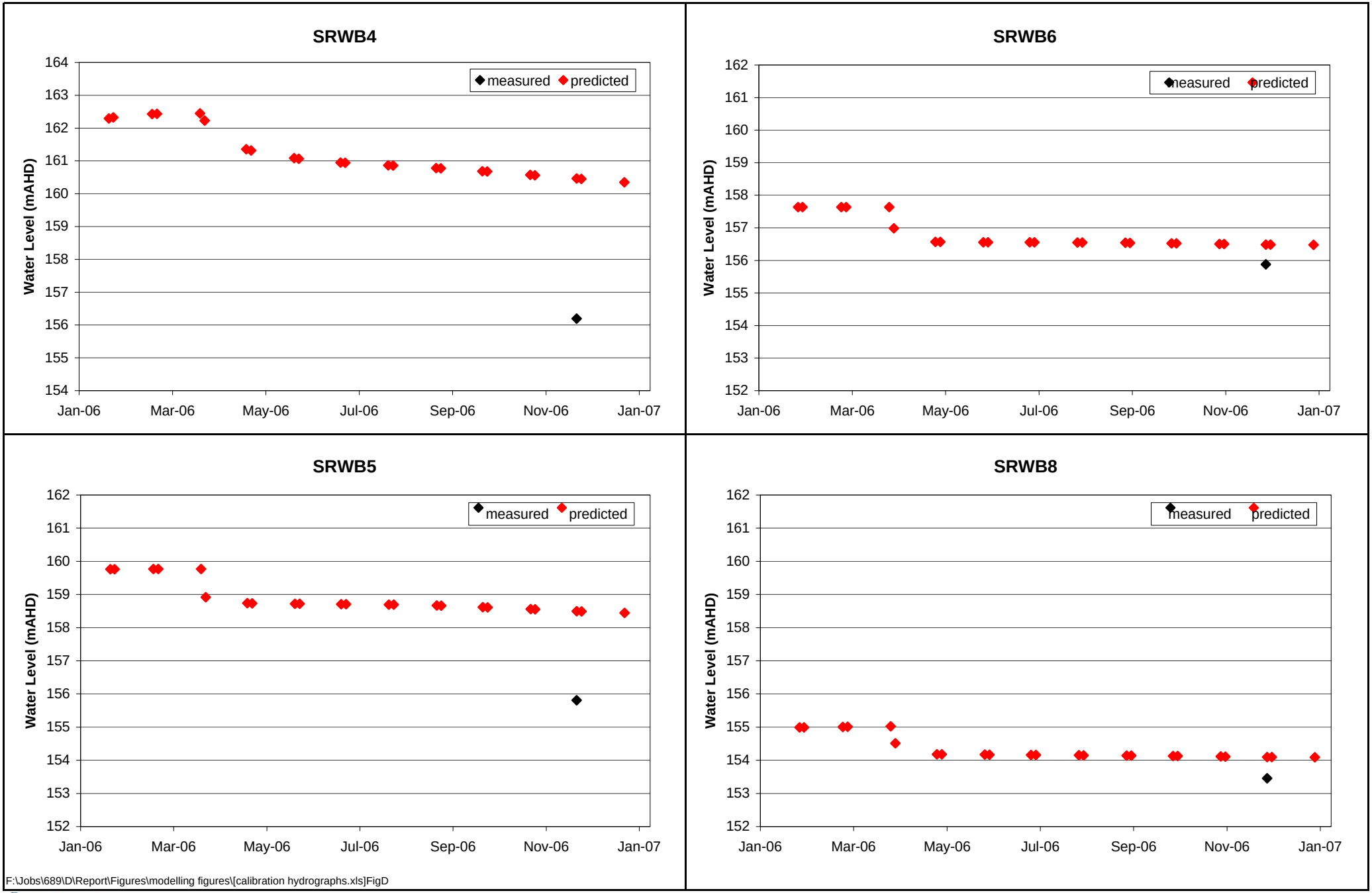
aquaterra

Calibration Hydrographs
Figure 4.9



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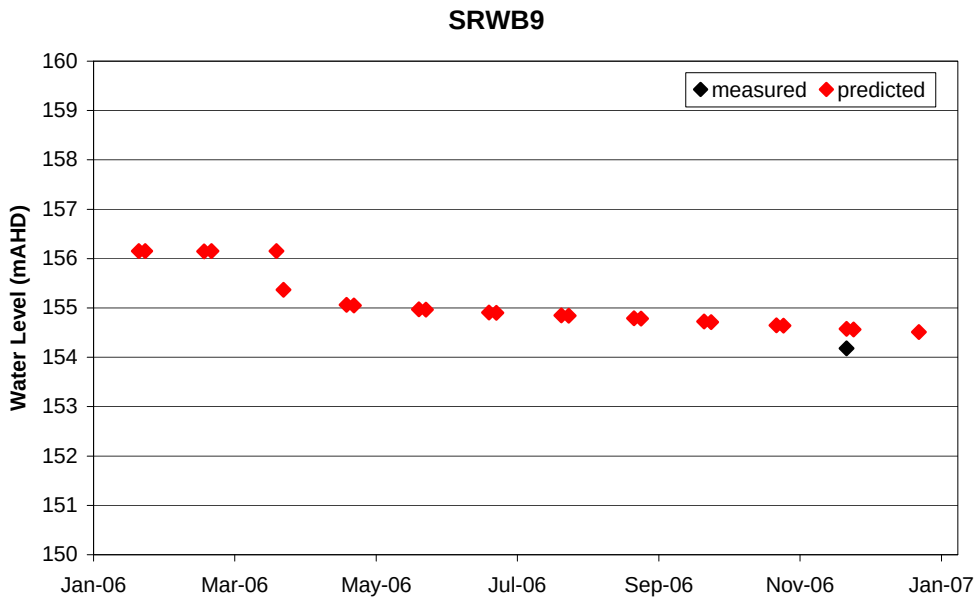
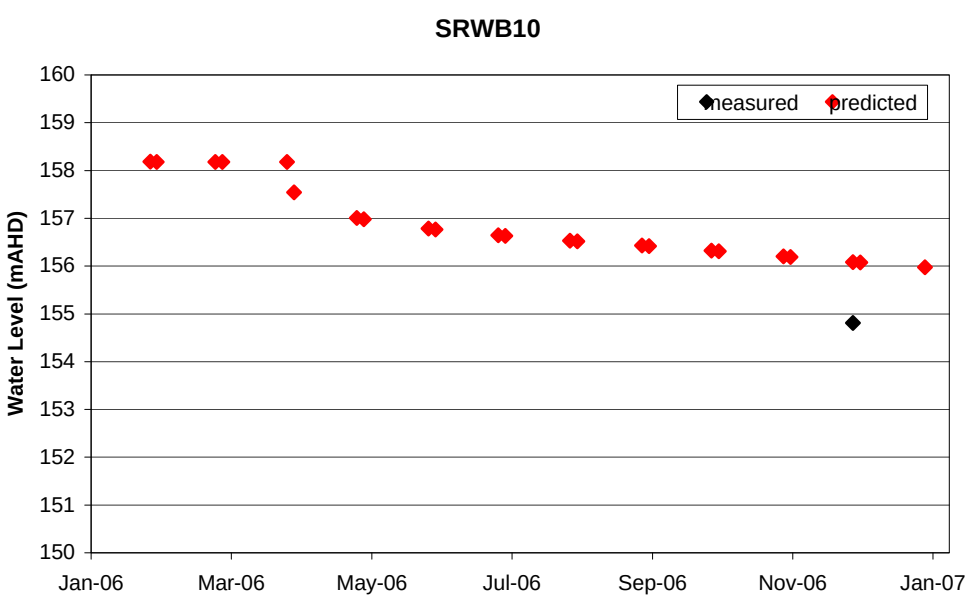
aquaterra

Calibration Hydrographs
Figure 4.10





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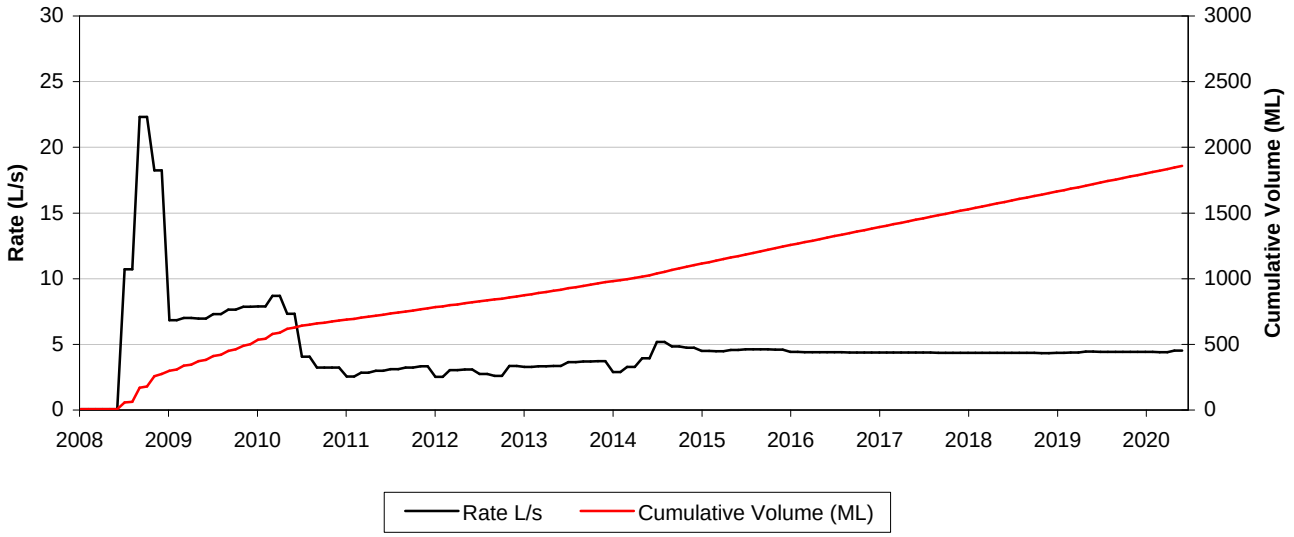
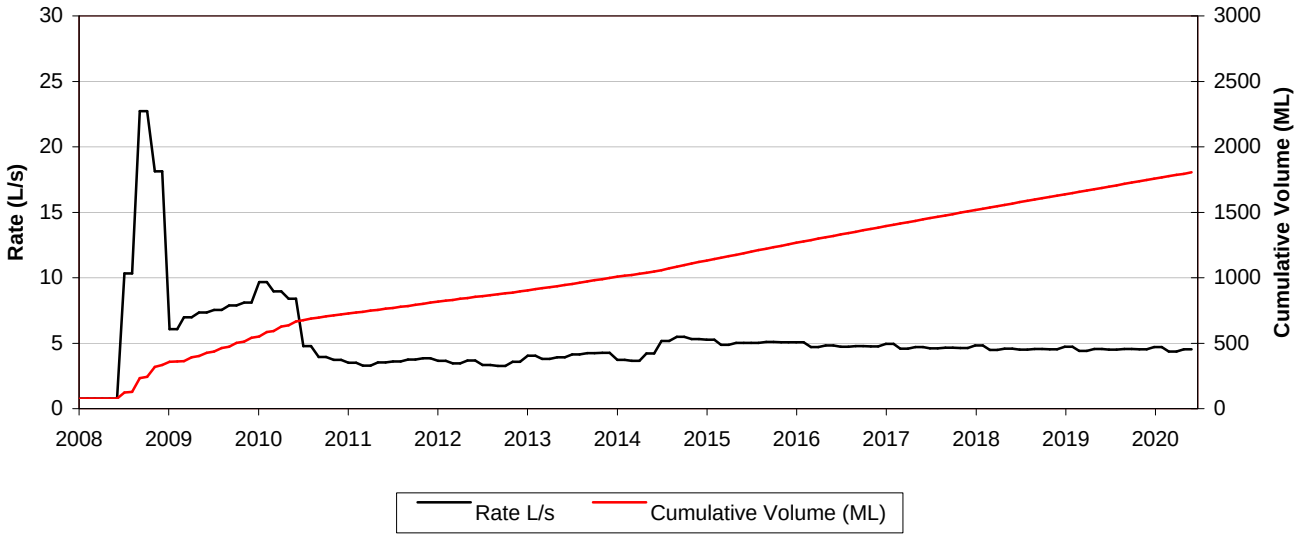
Calibration Hydrographs
Figure 4.11

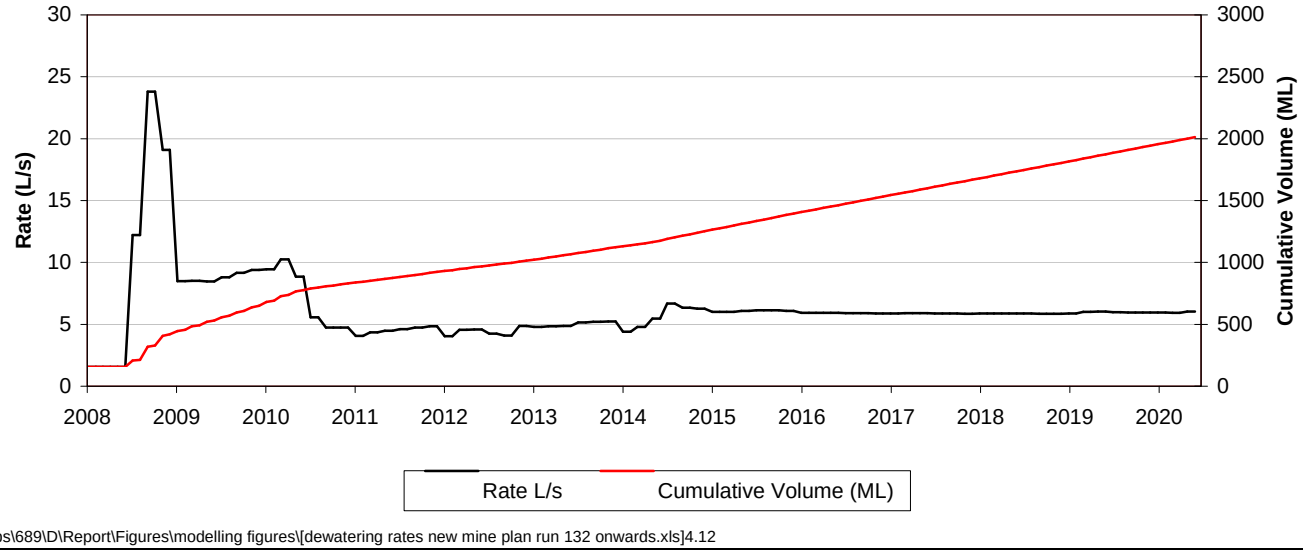
Average Recharge Conditions



Drought Conditions (ie no recharge)



High Rainfall Conditions



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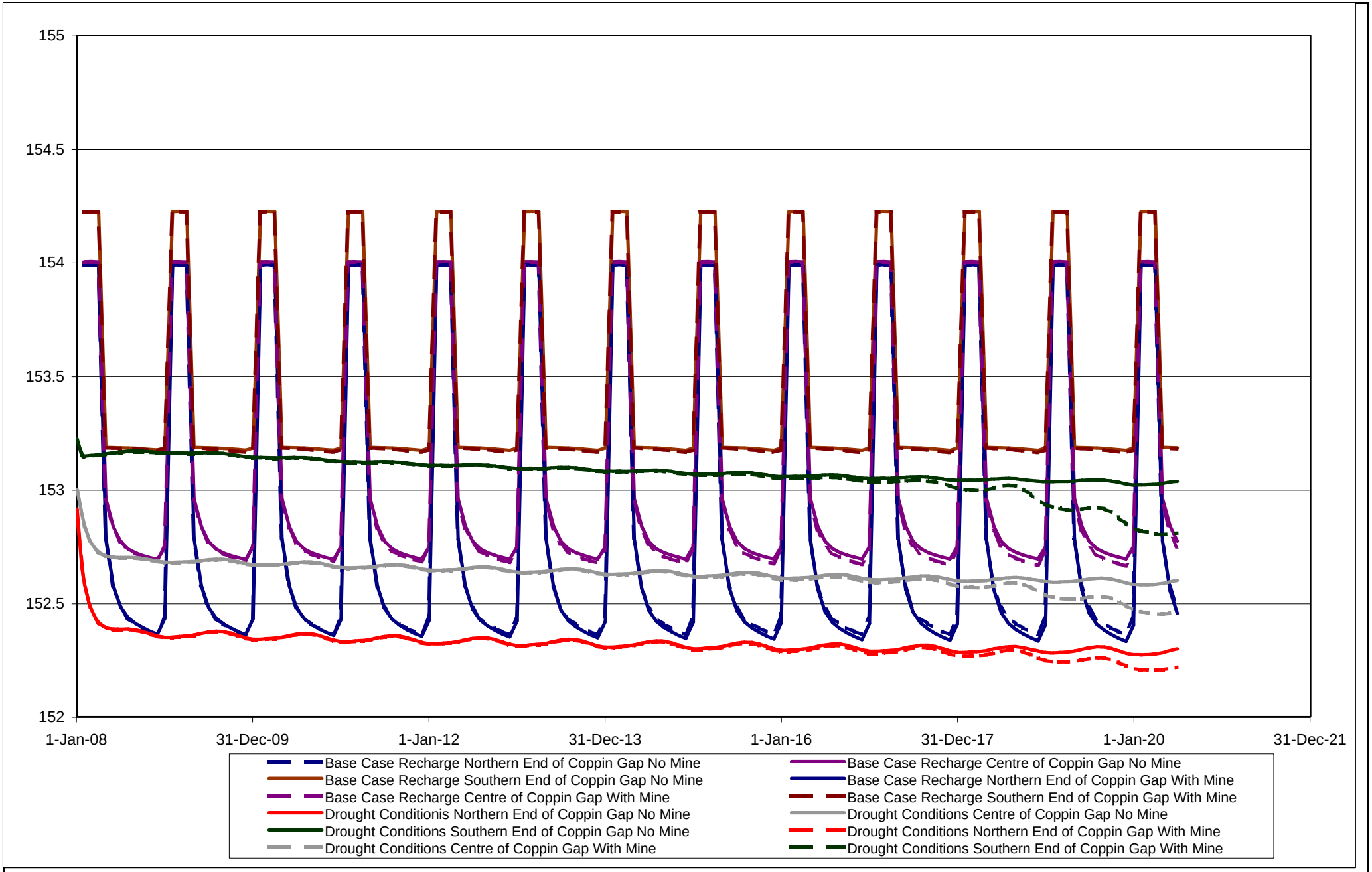
Predicted Dewatering Rates: Average, Drought and High Rainfall Conditions

Figure 4.12



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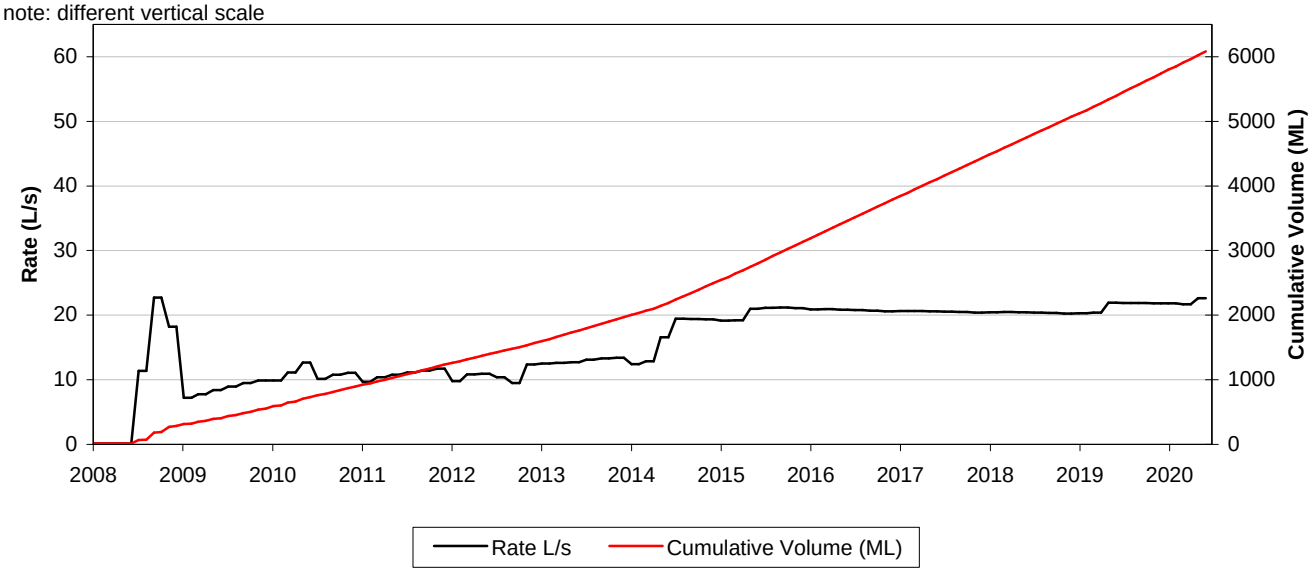
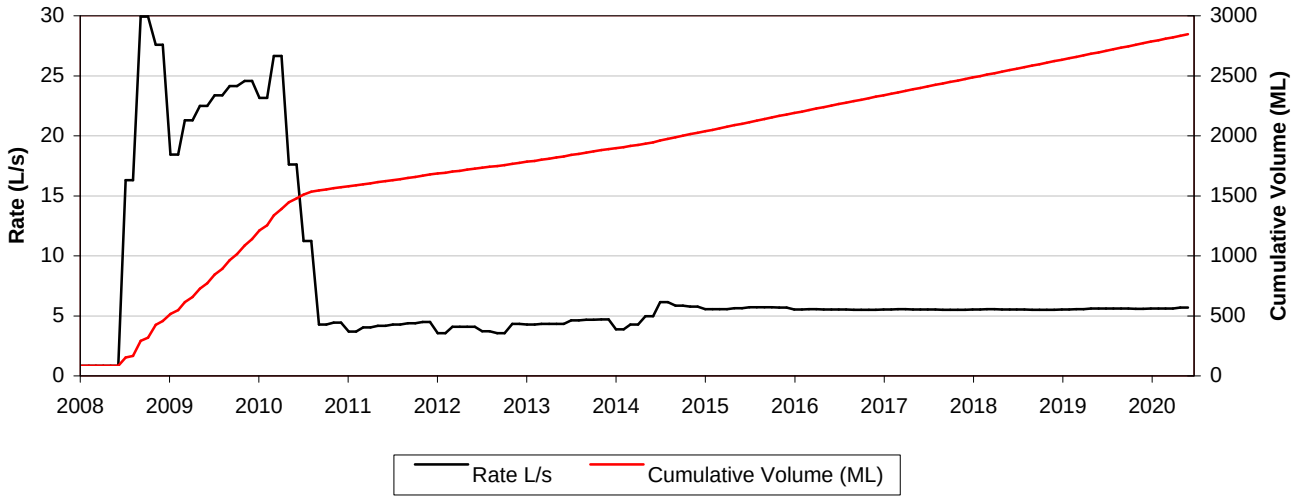
Coppin Gap Predicted Water Levels
Figure 4.13

Ten Fold Increase In Kh of Basement Rocks (Layers 3 to 8) and Average Recharge

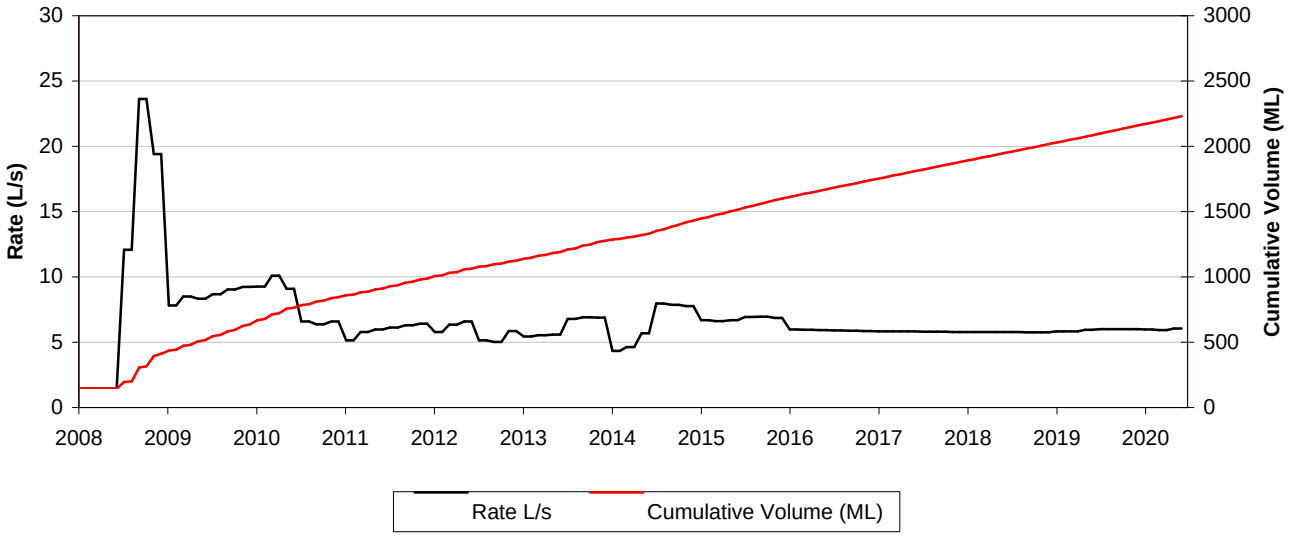
note: different vertical scale



Ten Fold Increase In Kh of Weathered Basement Rocks (Layer 2) and Average Recharge



Five Fold Increase in Specific Yield of Basement Rocks (Layer 3 to 8) and Average Recharge



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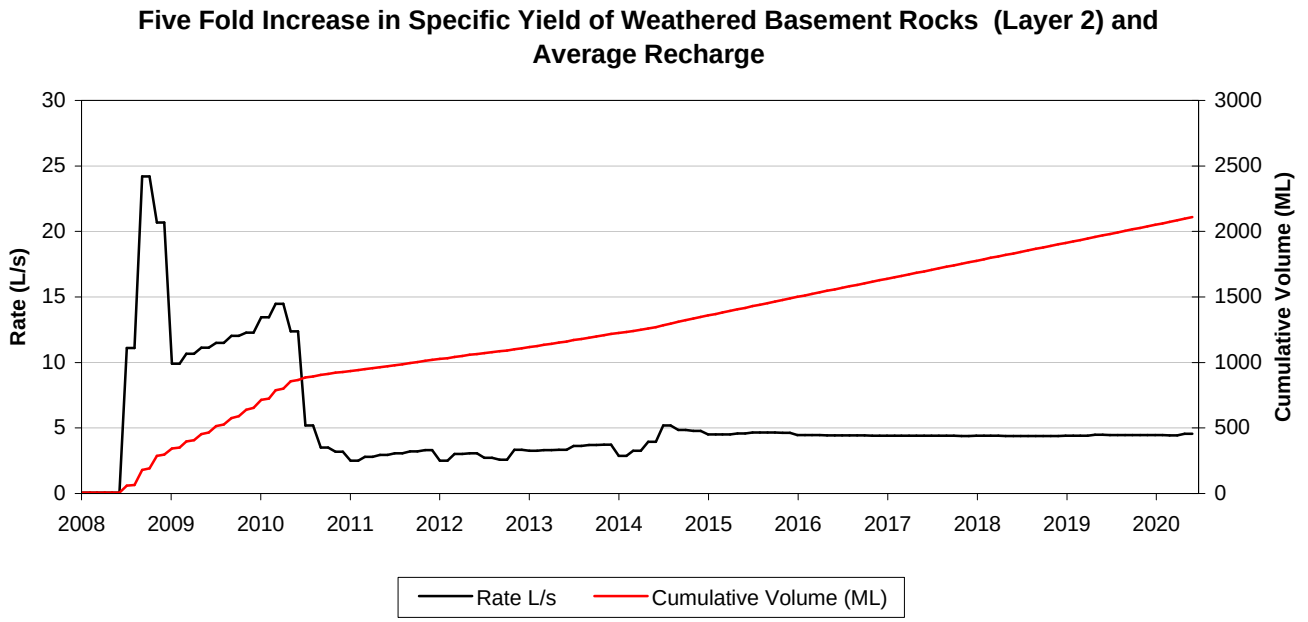

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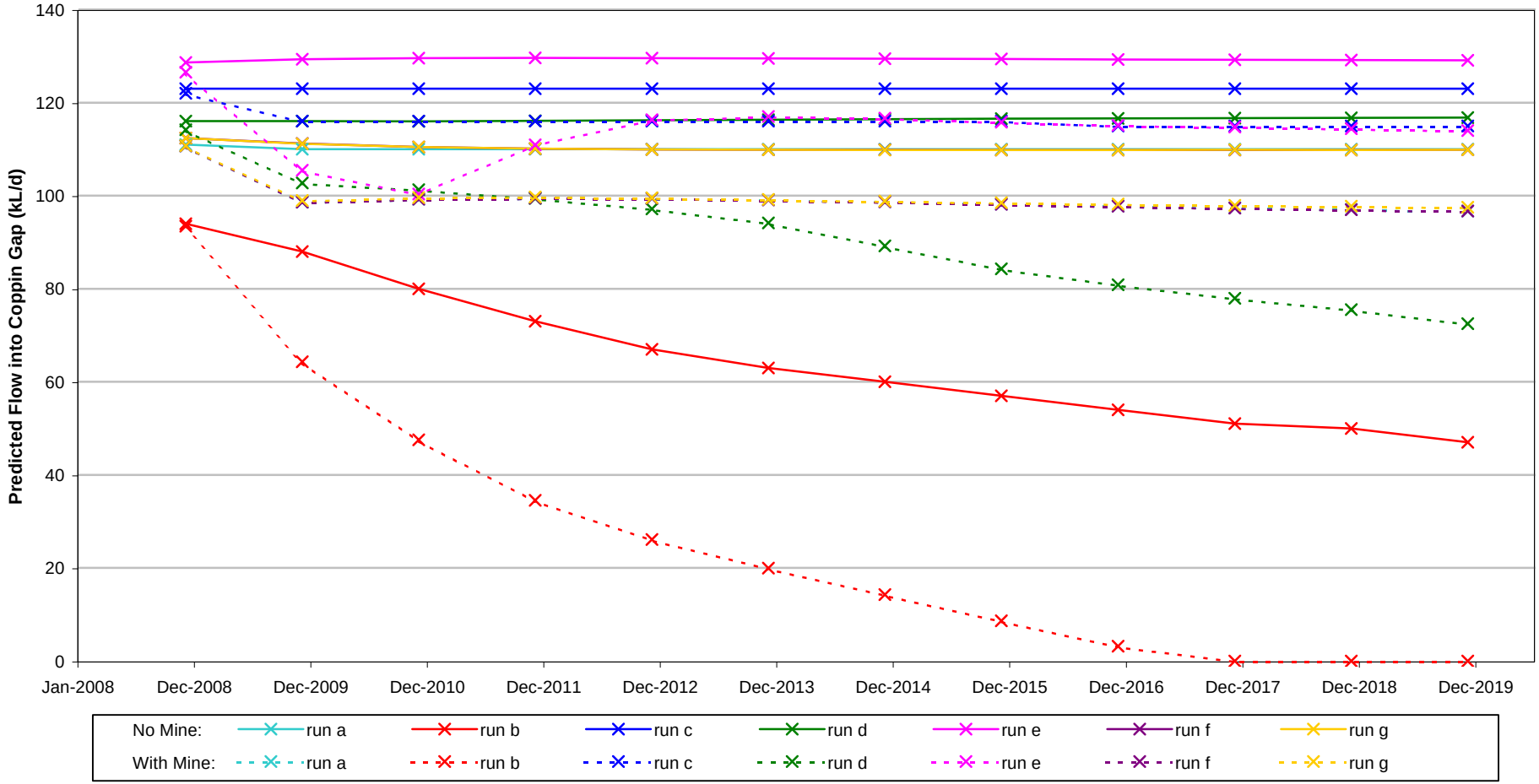

Run	Aquifer Parameters	Recharge Scenario
Case A Recharge	Base Case	Average
Case B Recharge	Base Case	Drought
Case C Recharge	Base Case	High (9th Decile)
Sensitivity Run 1	10 Fold Increase of Kh of Basement Rocks (Layers 3 to 8) excluding Granite	Average
Sensitivity Run 2	10 Fold Increase of Kh of Weather Basement Rocks (Layer 2) excluding Granite	Average
Sensitivity Run 3	Specific Yield of Basement Rocks Doubled (Layers 3 to 8)	Average
Sensitivity Run 4	Specific Yield of Weathered Basement Rocks Doubled (Layer 2)	Average

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Predicted Rate of Flow into Coppin Gap December 2008 to 2019
Figure 4.16

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Figure 4.17 - Drawdown At End of Mining (12 Years)

0 0.5 1 Km

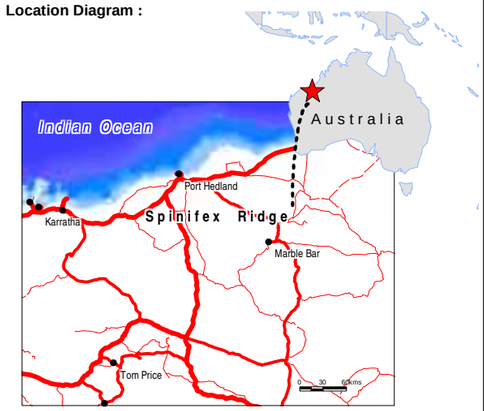
Scale: 1:15,000

Map Projection: MGA Zone 51 (Australia GDA94)

F:\Jobs\689\Mapinfo(work with DVD or CD)\Mapinfo_Figs_April07

Compiled: 13 / 06 / 2007 Compiled by: SB

Location Diagram :

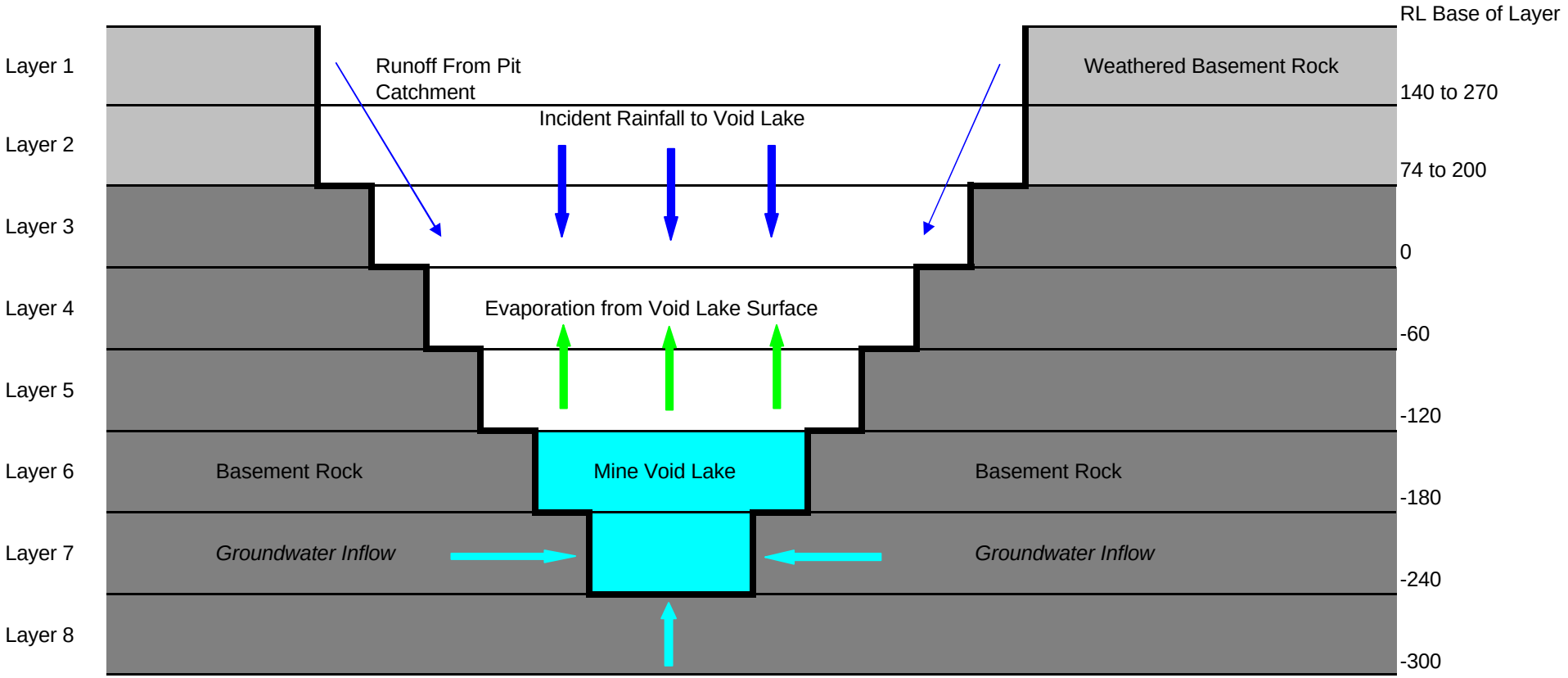


LEGEND

GW Drawdown at End of (Mining12 Years)

Bore Locations

Mine Pit Outline



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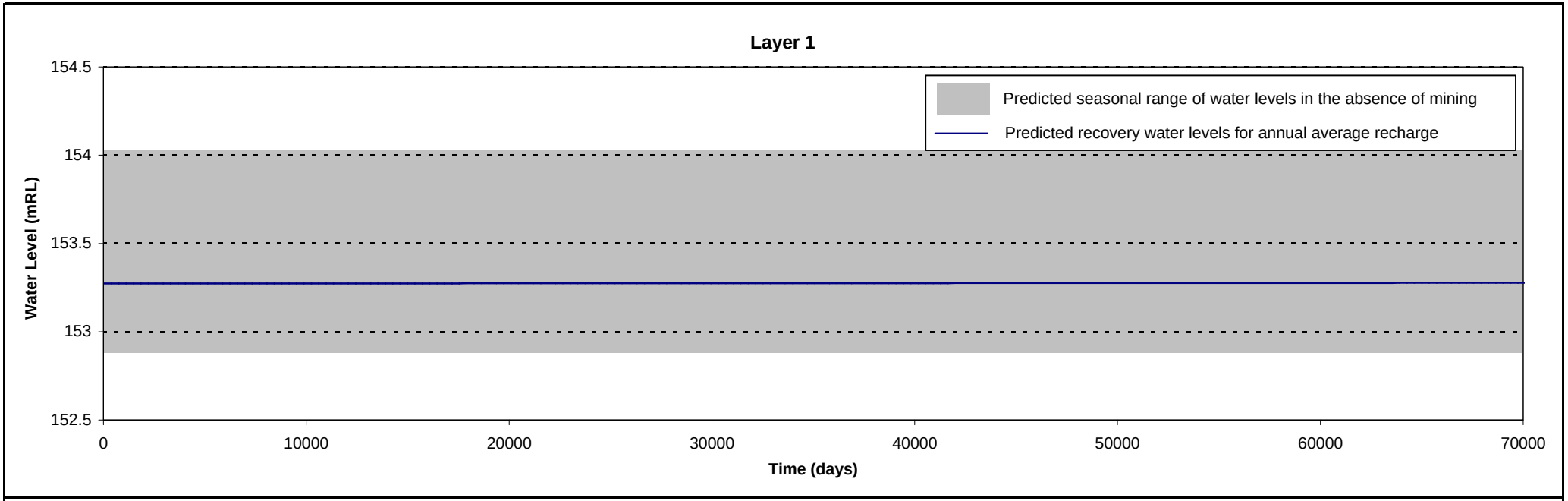
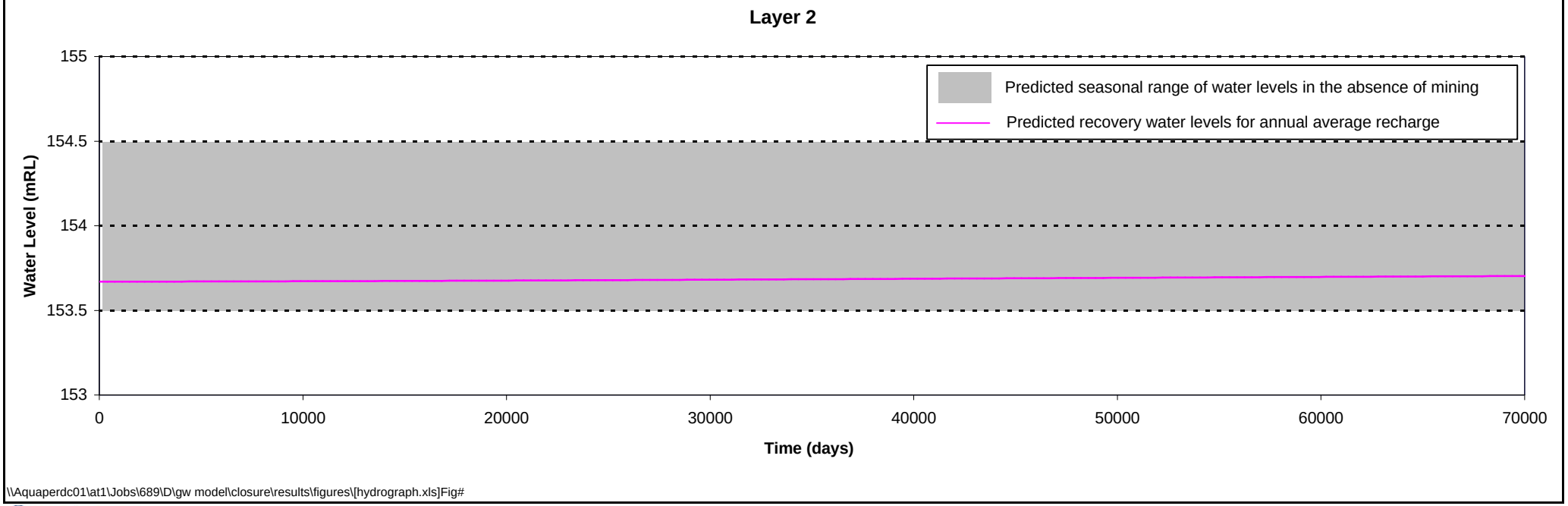
Schematic Void Model Setup
Figure 4.18





\\Aquaperdc01\at1\Jobs\689\D\gw model\closure\results\figures\[hydrograph.xls]Fig#

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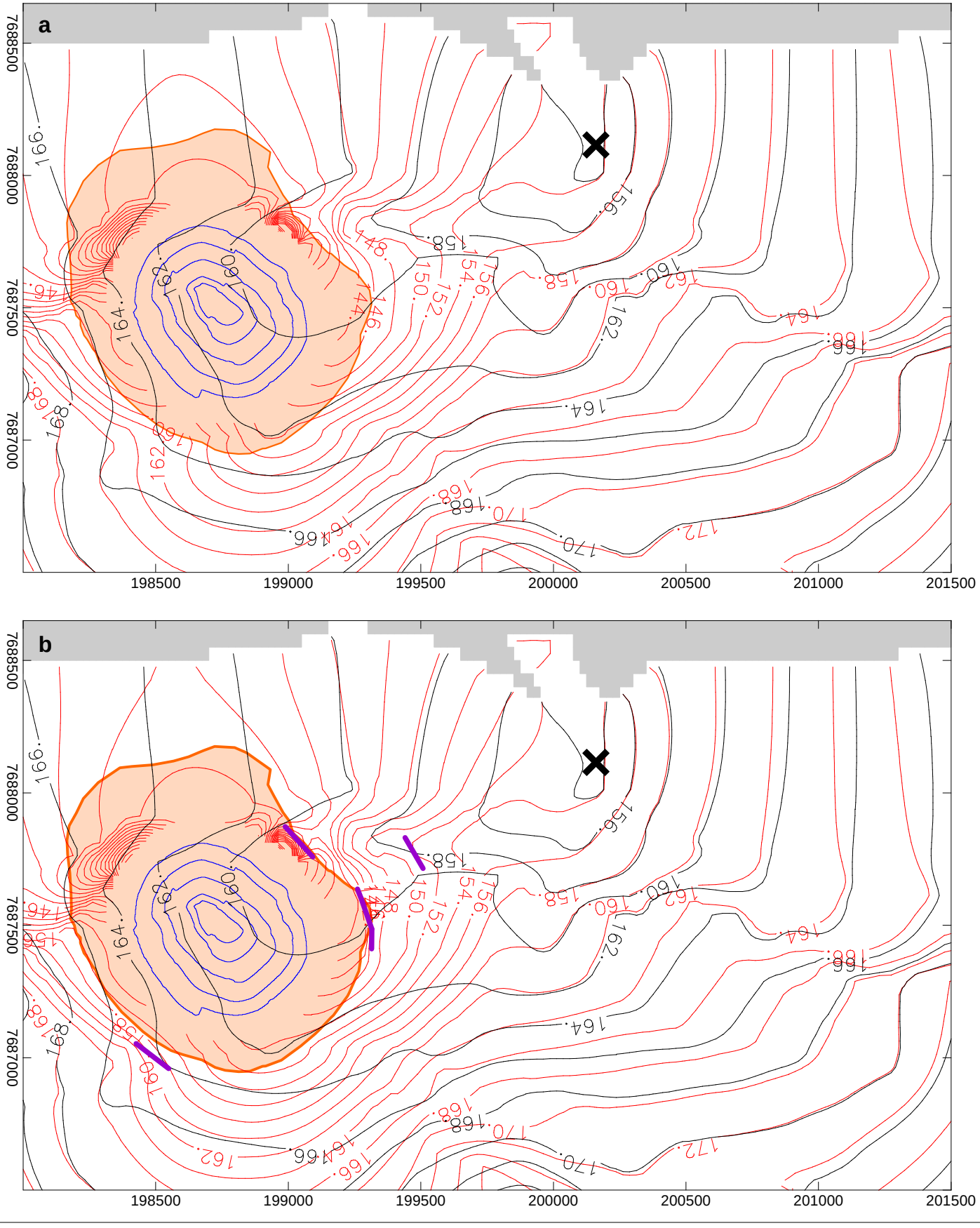
Predicted Post Closure Water Levels at Coppin Gap
Figure 4.19



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Predicted Post Closure Water Level Contours:
(a) without flow barriers (b) with flow barriers installed
Figure 4.20

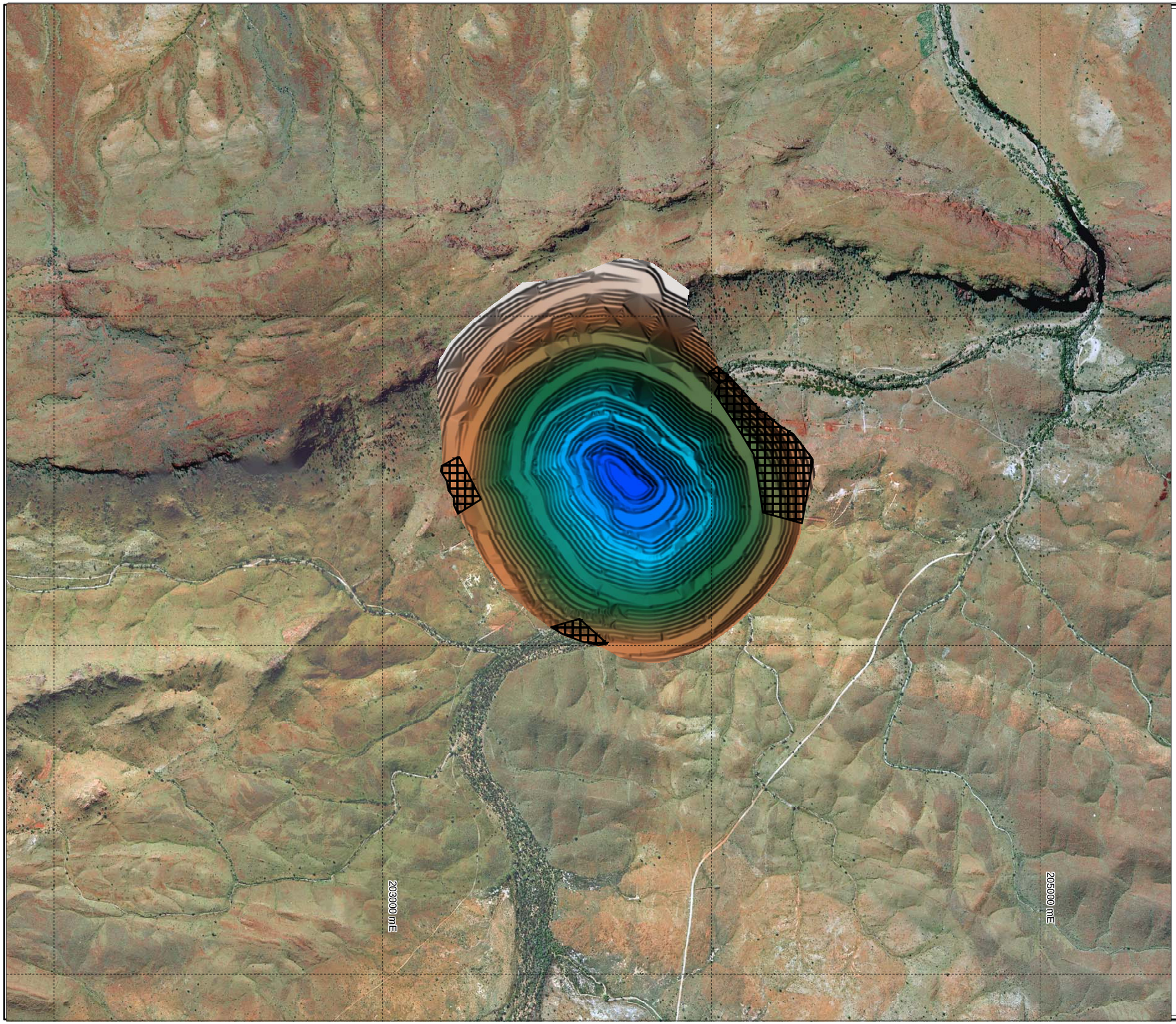

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Figure 5.1 Location Of Anticipated Flows Into Pit

250 0 250

Meters

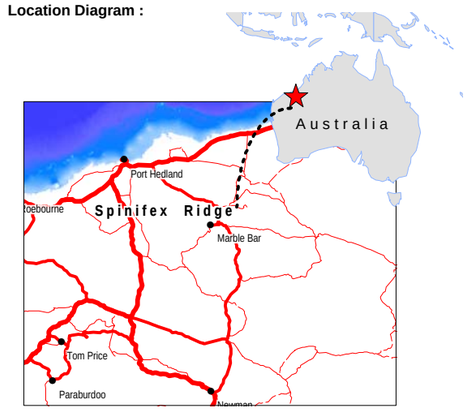
Scale: 1:11,000

Map Projection: MGA Zone 51 (Australia GDA94)

Workspace: F:\Jobs\689\Mapinfo(work with DVD or CD)\Mapinfo_Figs_April07 \Plan of high Inflow zones

Compiled: 18 / 04 / 07 Compiled by: GB

Location Diagram :



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Zones Of Higher Inflow

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Figure 5.2 Groundwater Water Monitoring Programme

0.5 0 0.5 1

Kilometers

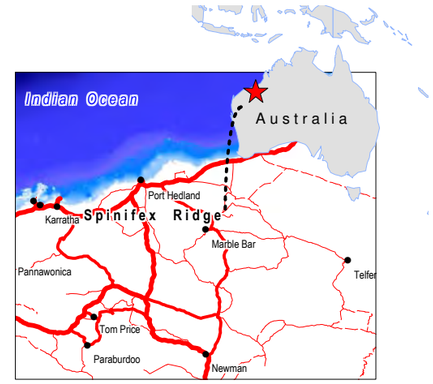
Scale: 1:23,500

Map Projection: MGA Zone 51 (Australia GDA94)

Workspace: F:\Jobs\689\Mapinfo(work with DVD or CD)\Mapinfo_Figs_April07\Mine water monitoring programme

Compiled: DD / MM / 2006 Compiled by: GB

Location Diagram :



LEGEND

- SR - Spinifex Ridge Regional
- CG - Coppin Gap
- CGN - Coppin Gap North
- ME - Mine East
- MW - Mine West
- OC - Open Cut Pit/Mine Walls
- Bore Locations
- Waste Dump Outlines

7690000 mN
7688000 mN
7686000 mN
195000 mE
198000 mE
201000 mE
SR
CGN
CG
ME
MW
OC