

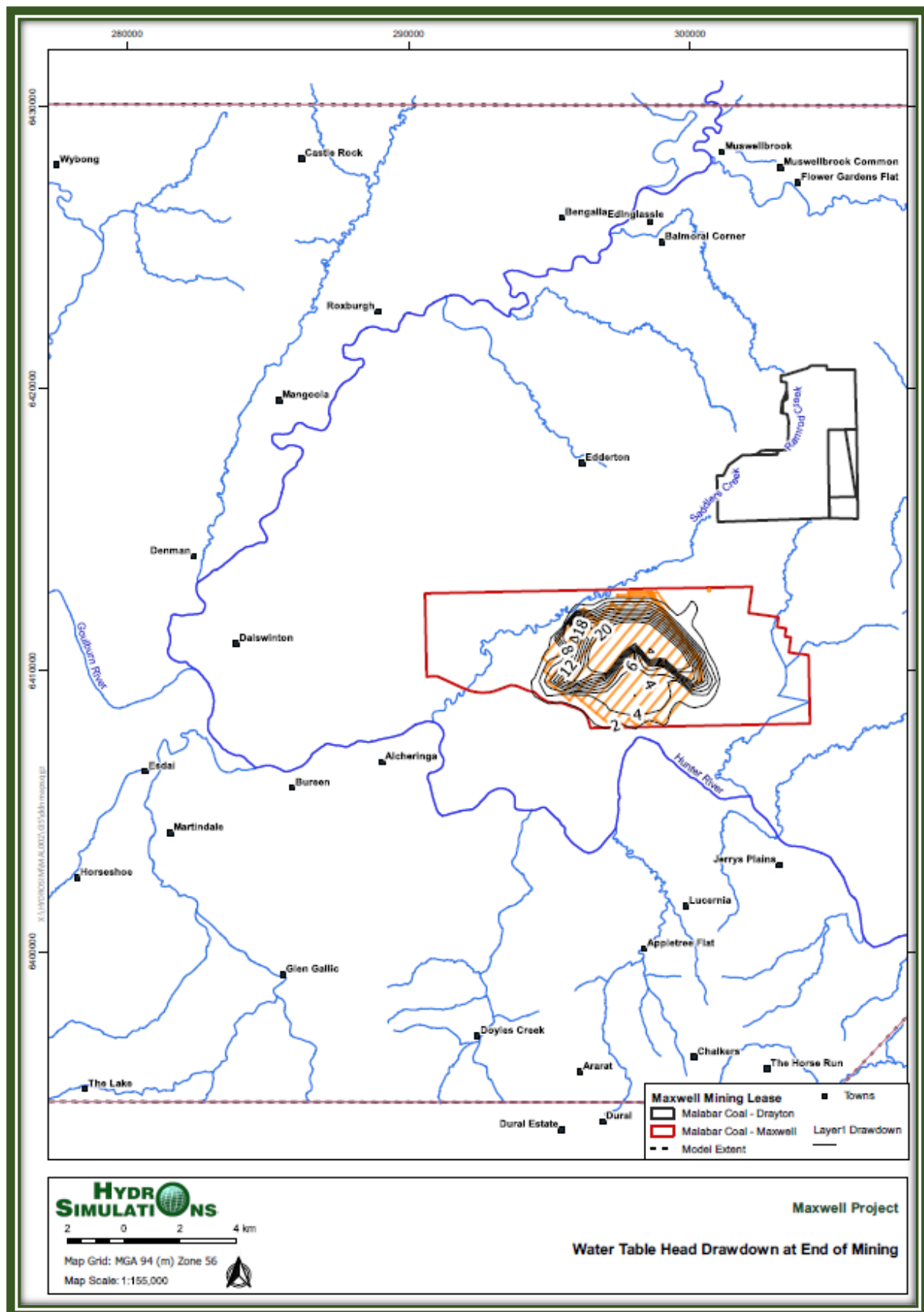


Figure 48 Water table drawdown at end of mining

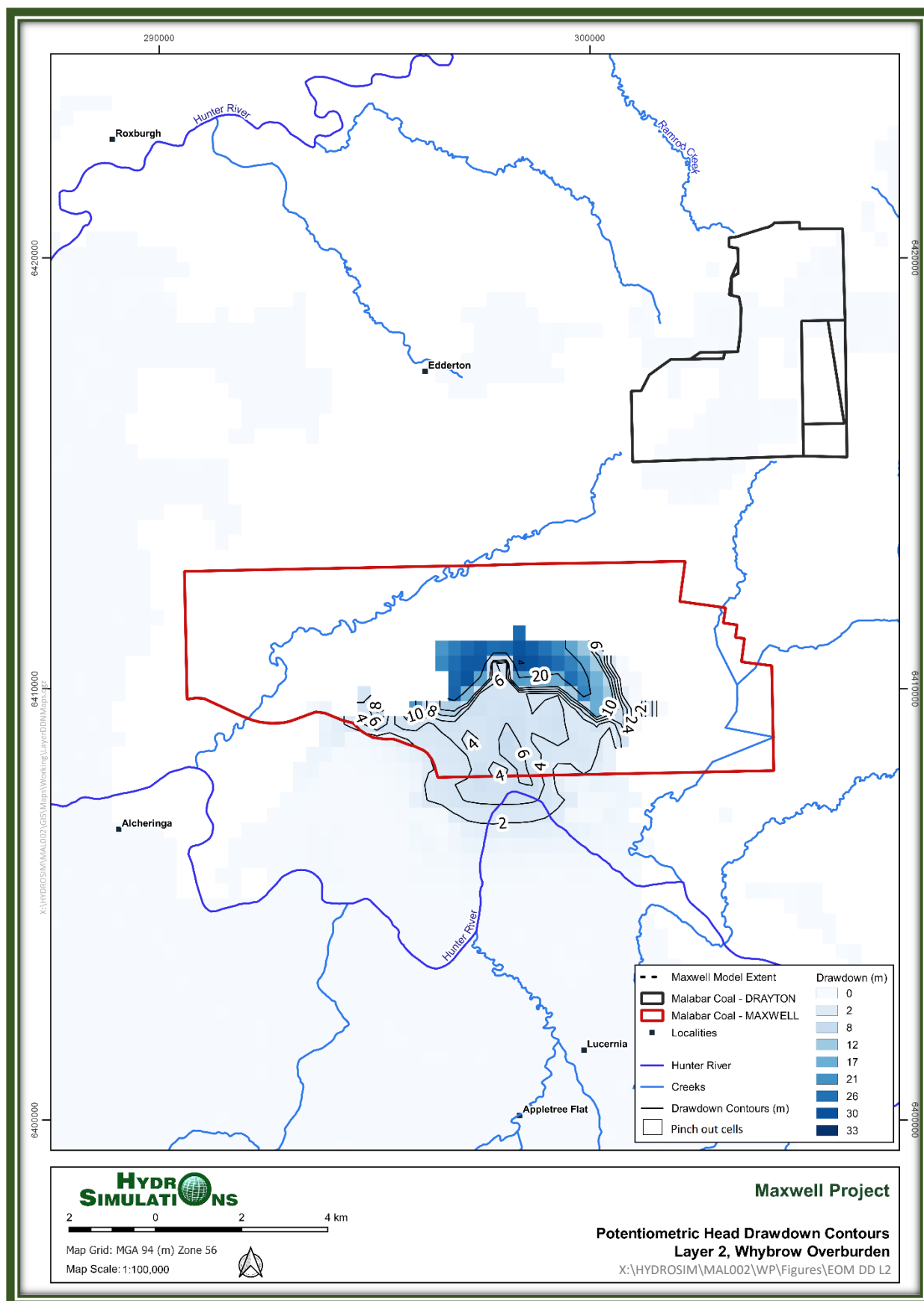


Figure 49 Potentiometric drawdown at end of mining, Layer 2

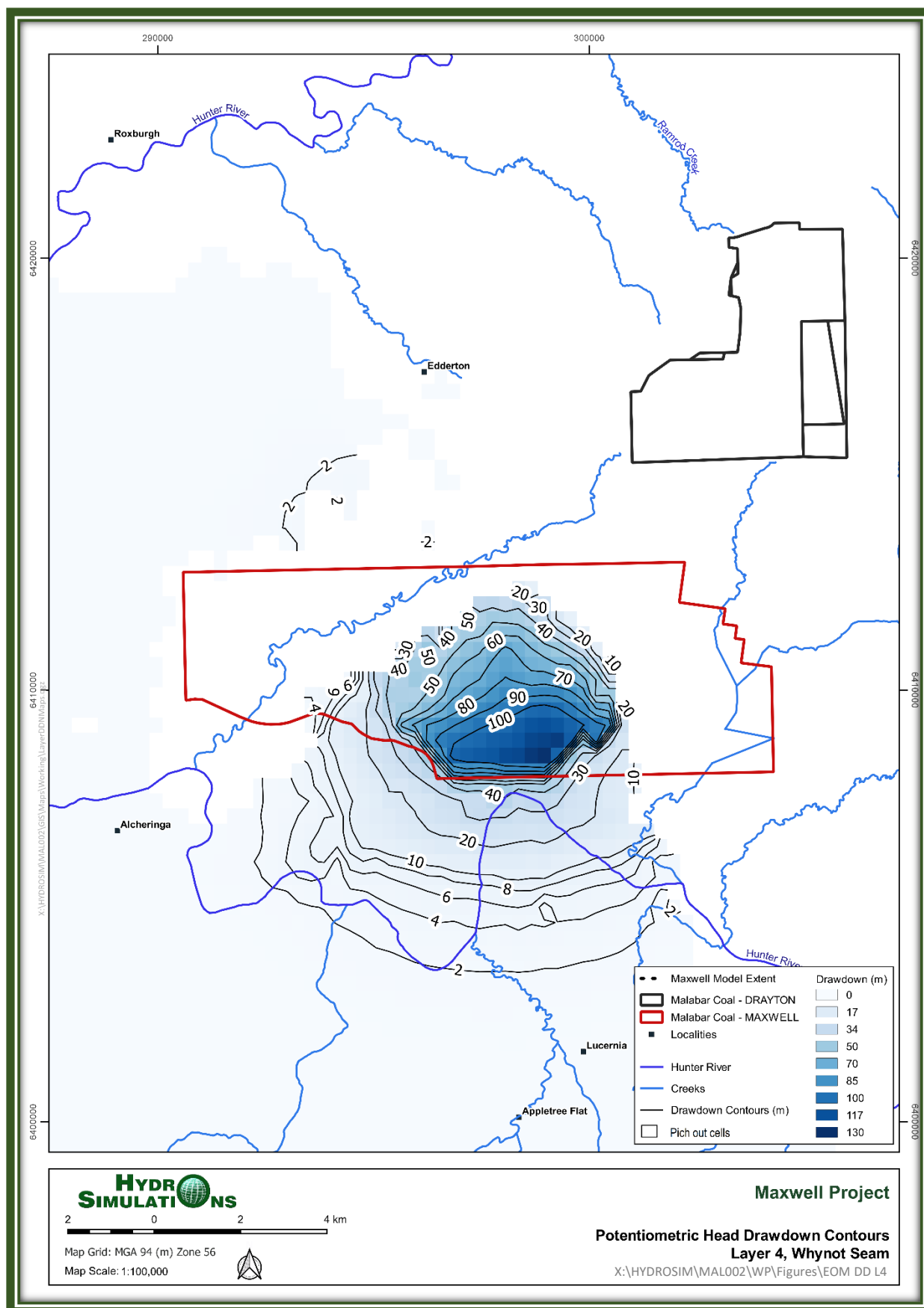


Figure 50 Potentiometric drawdown at end of mining, Layer 4

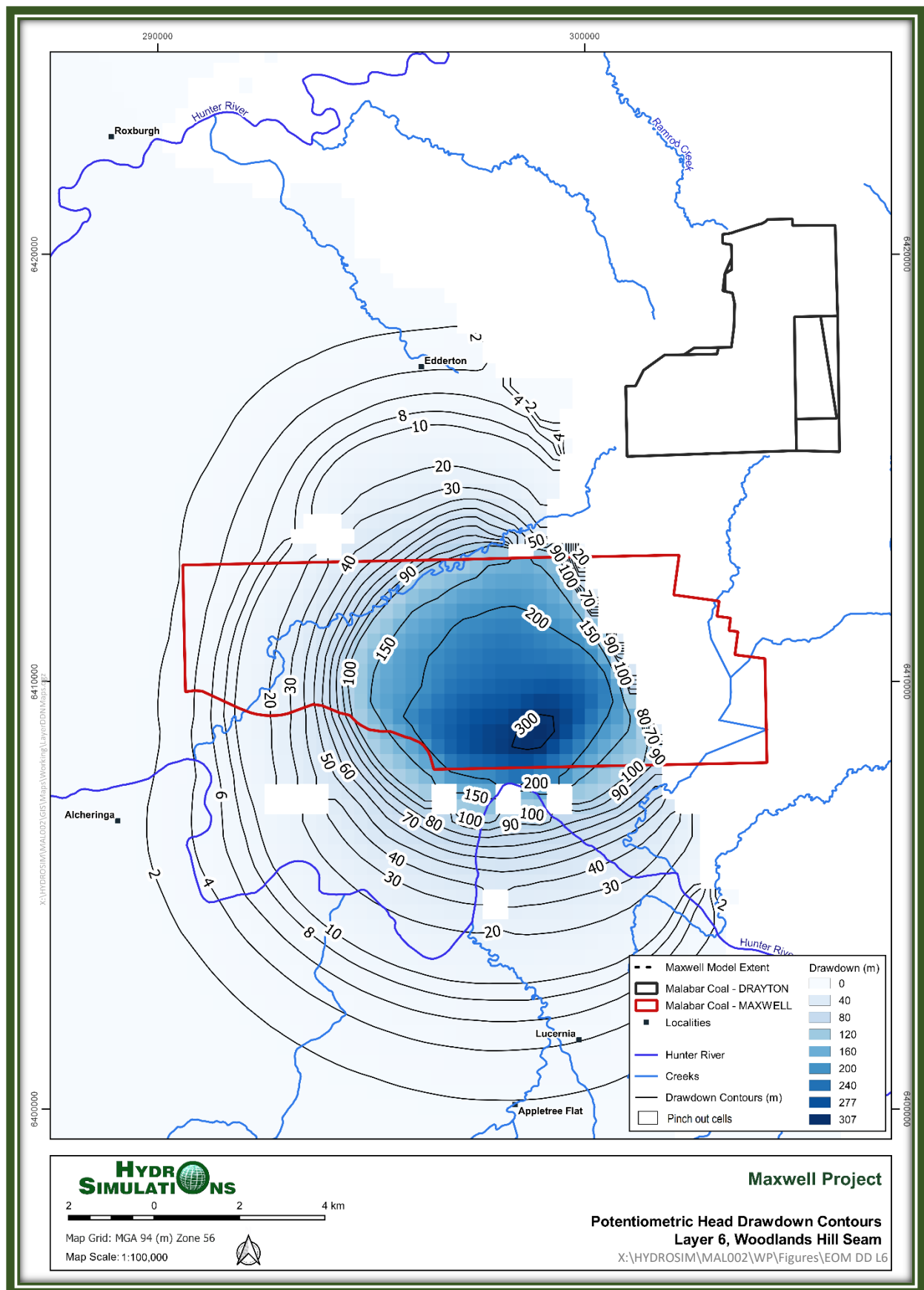


Figure 51 Potentiometric drawdown at end of mining, Layer 6

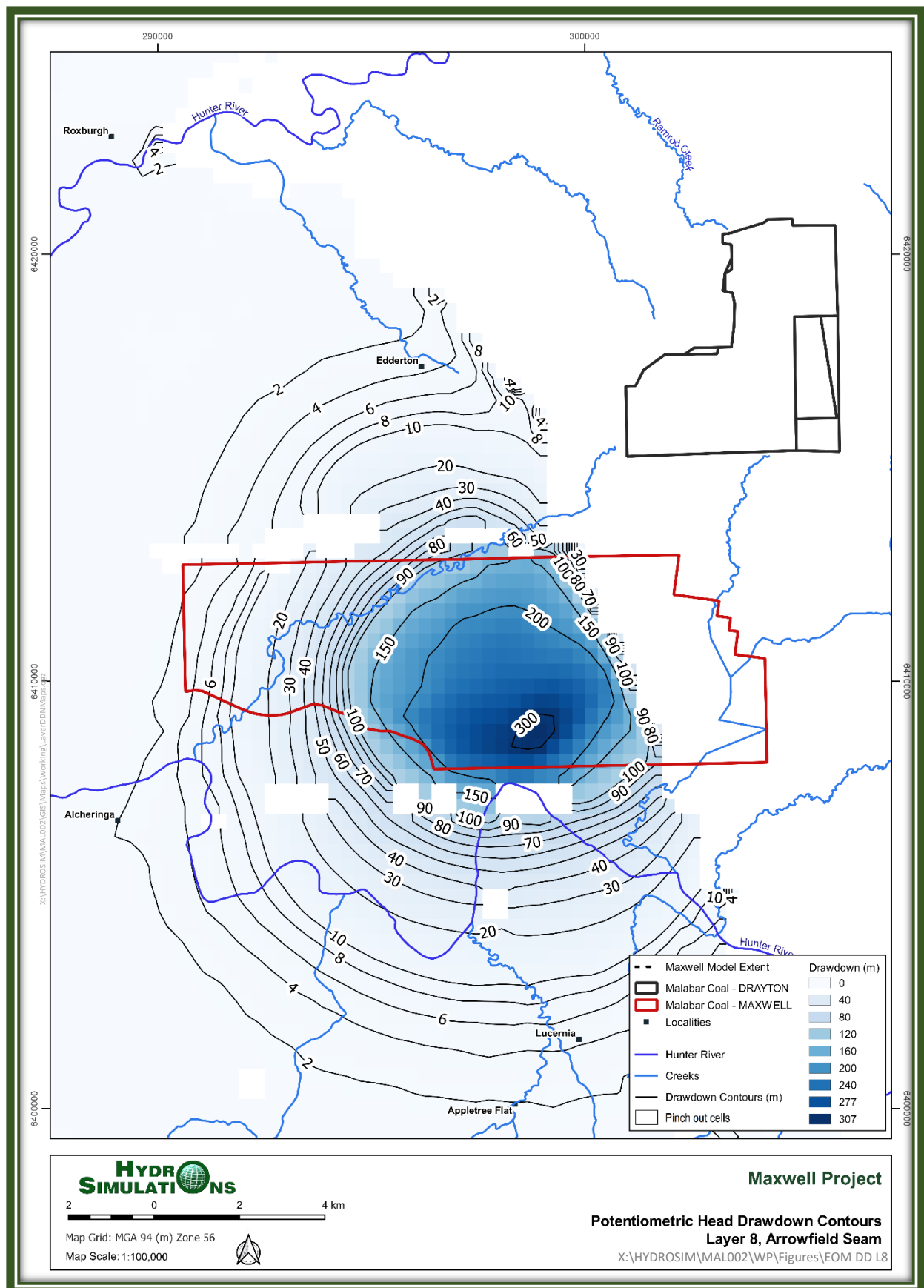


Figure 52 Potentiometric drawdown at end of mining, Layer 8

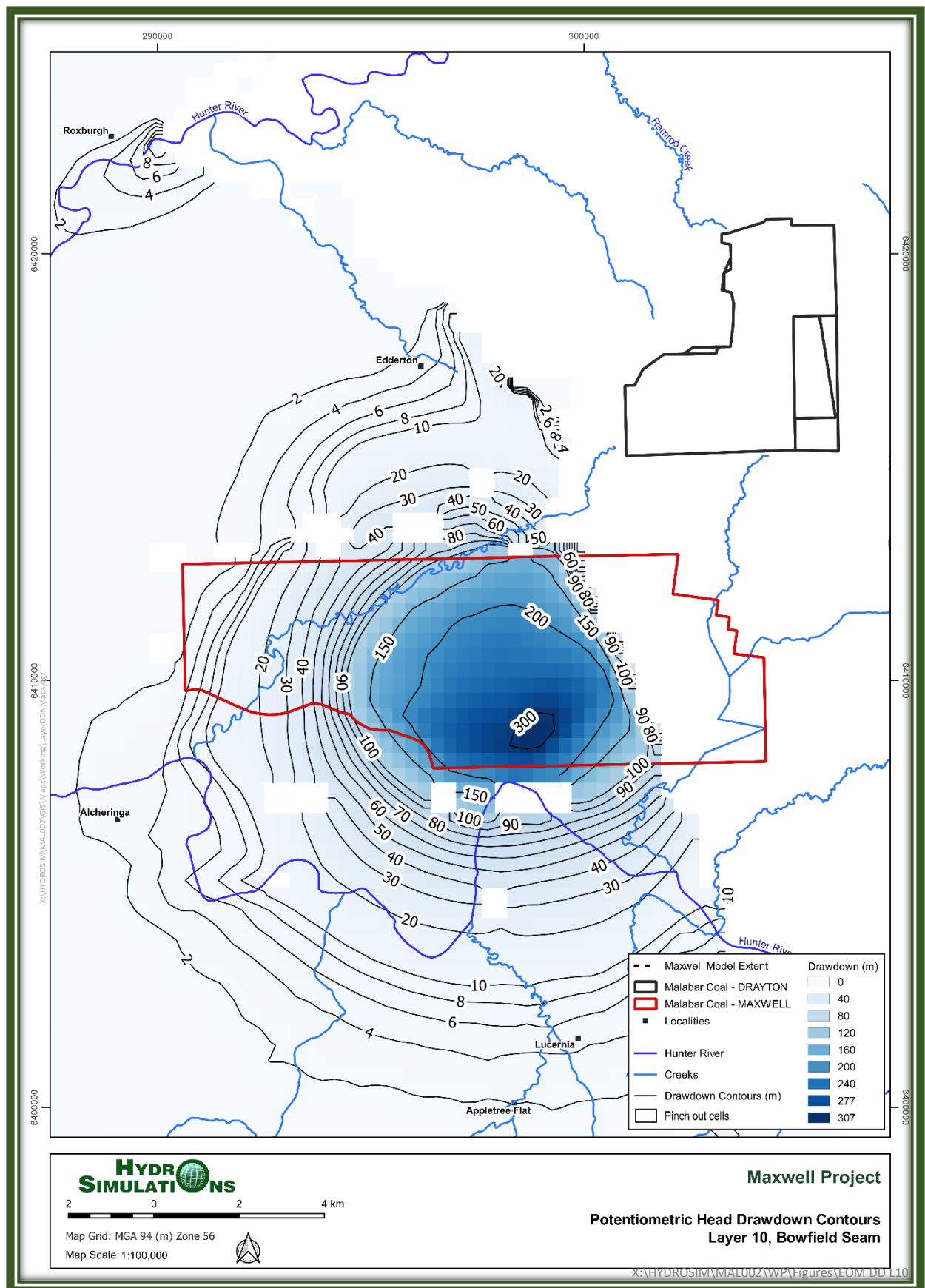


Figure 53 Potentiometric drawdown at end of mining, Layer 10

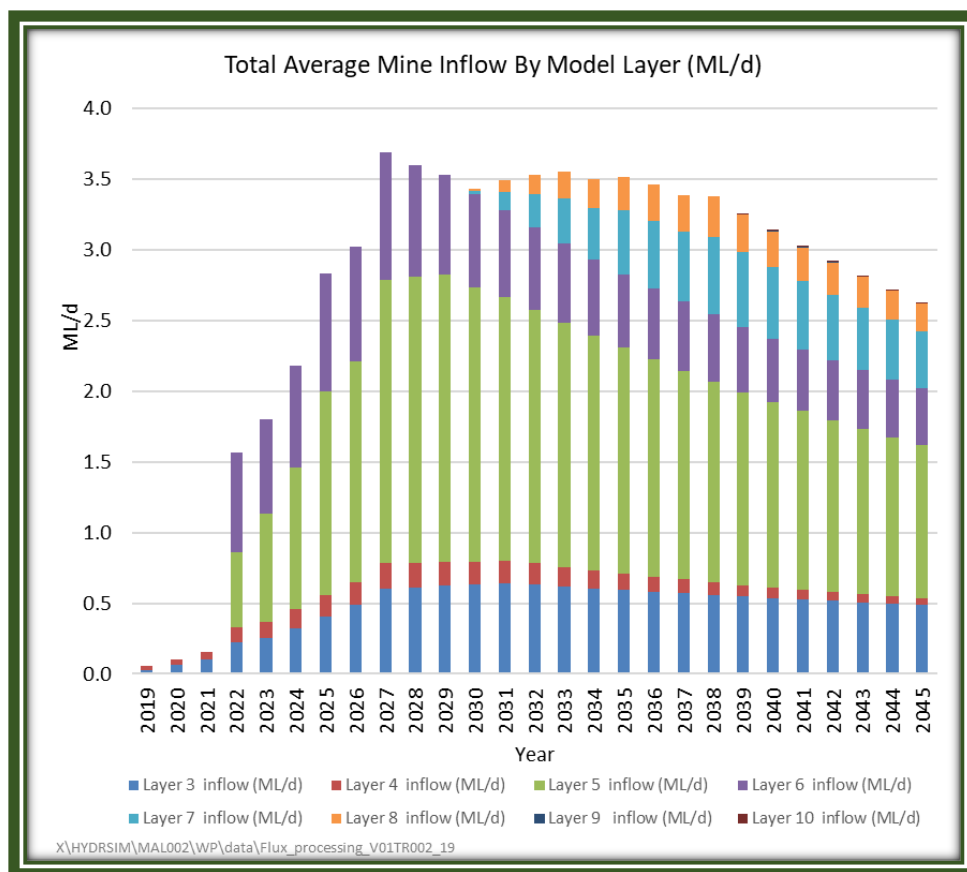


Figure 54 Mine inflow by model layer

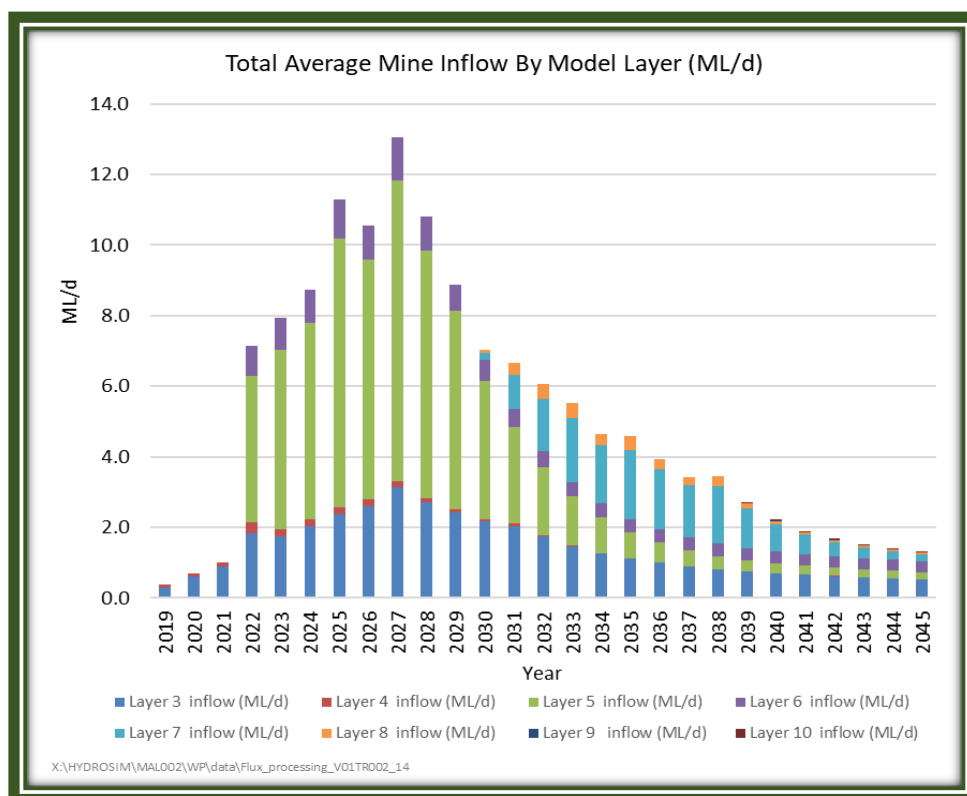


Figure 55 Mine inflow by model layer, enhanced drain conductances

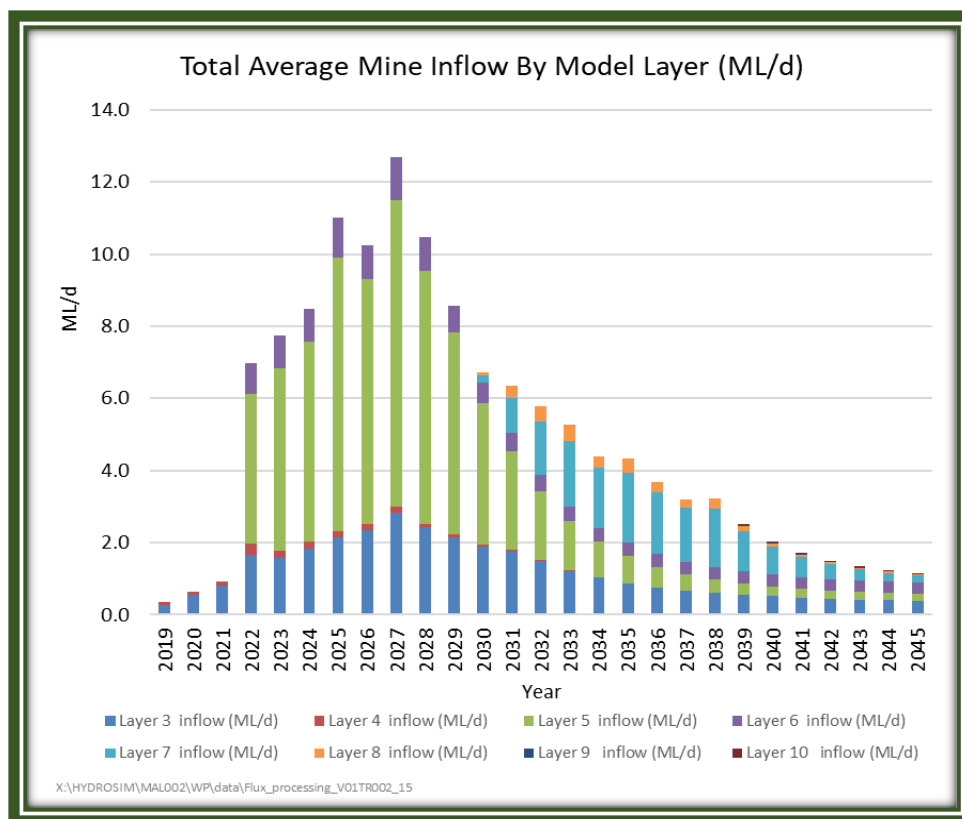


Figure 56 Mine inflow by model layer, enhanced drain conductances, and L1 permeability

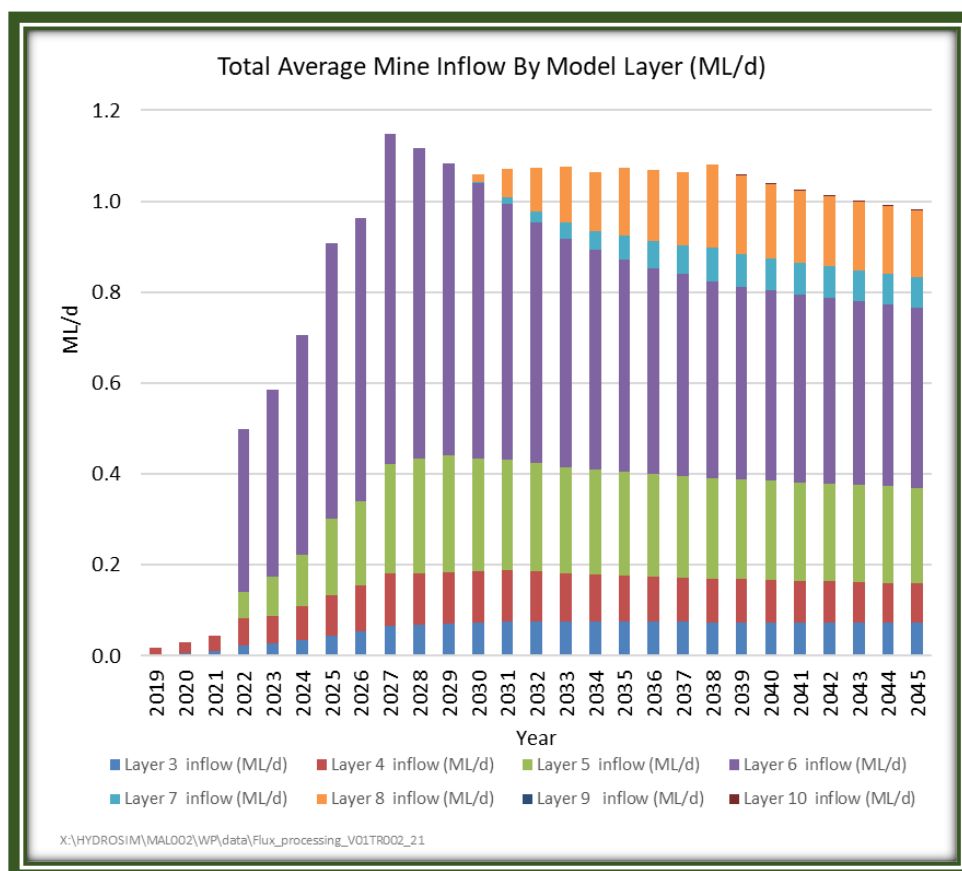


Figure 57 Mine inflow by model layer, reduced drain conductances

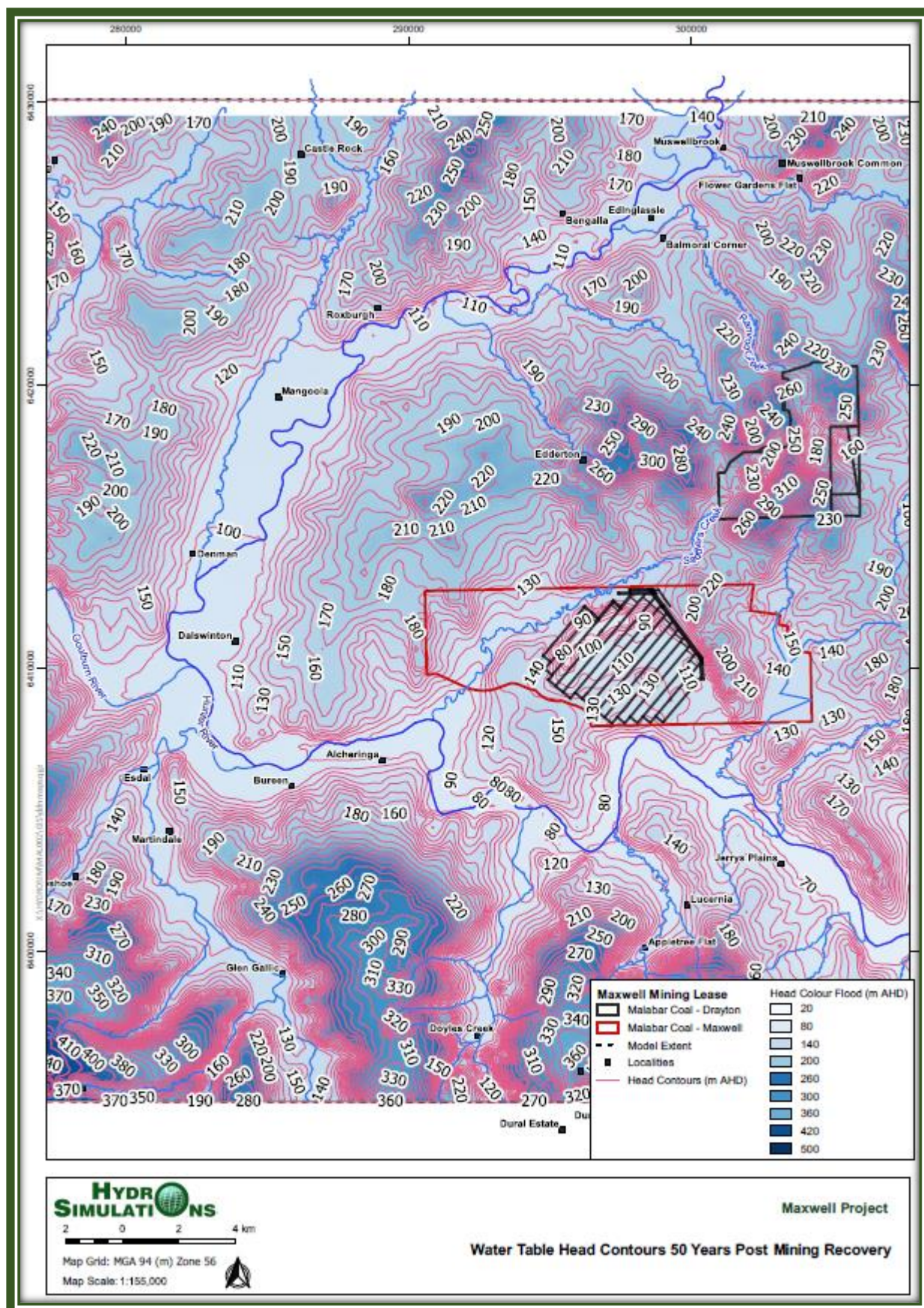


Figure 58 Predicted water table contours, 50 years after mining

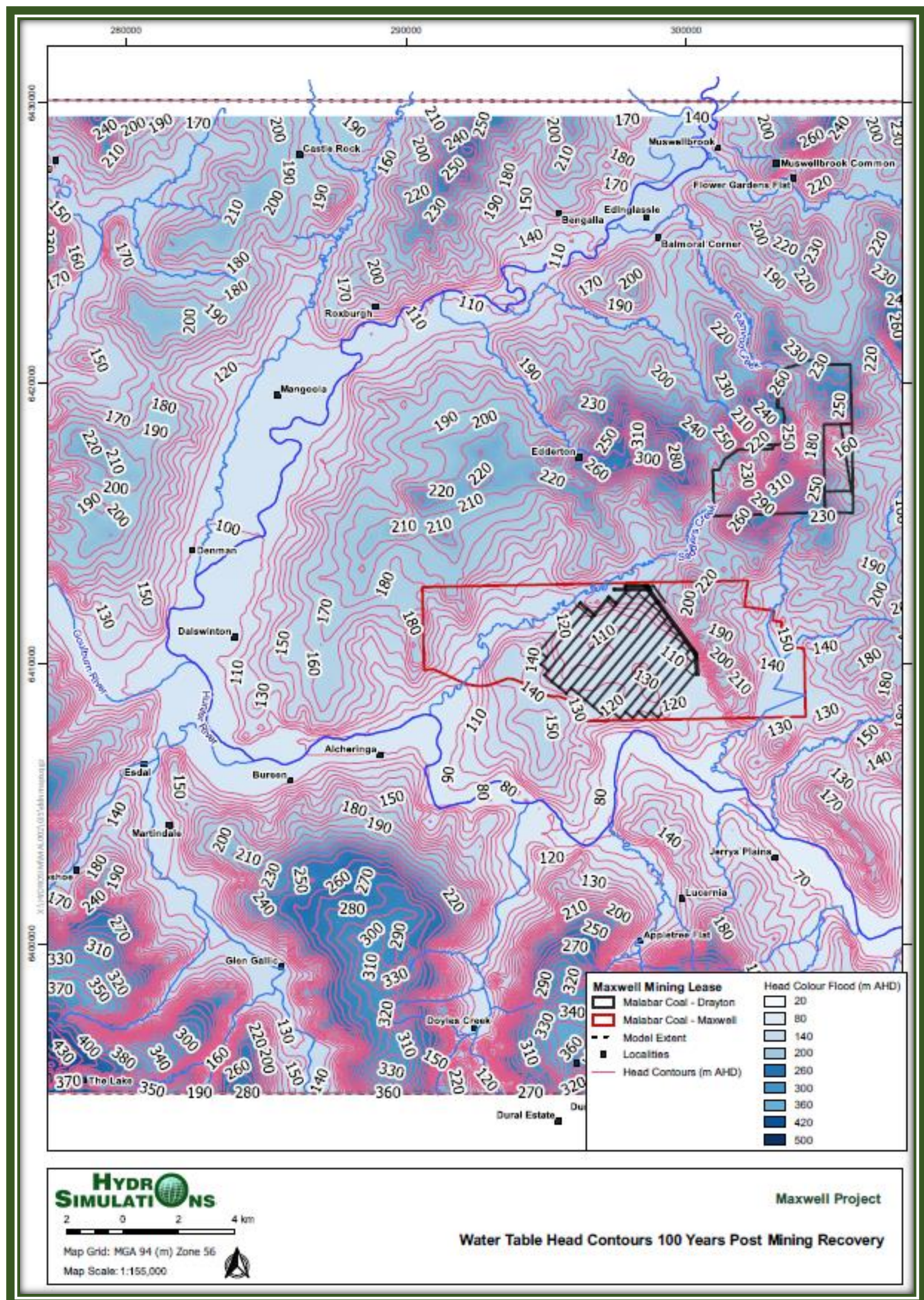


Figure 59 Predicted water table contours, 100 years after mining

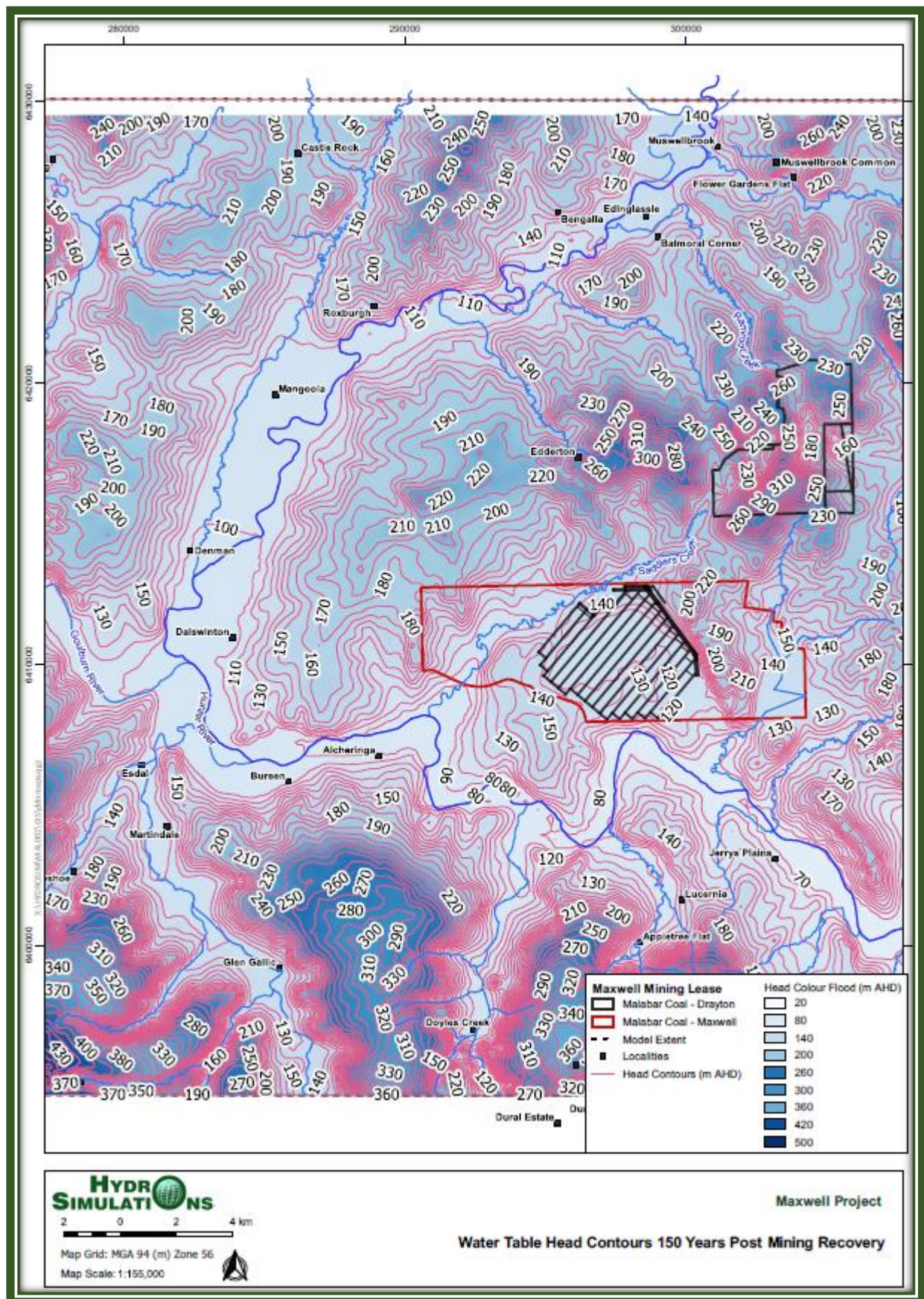


Figure 60 Predicted water table contours, 150 years after mining

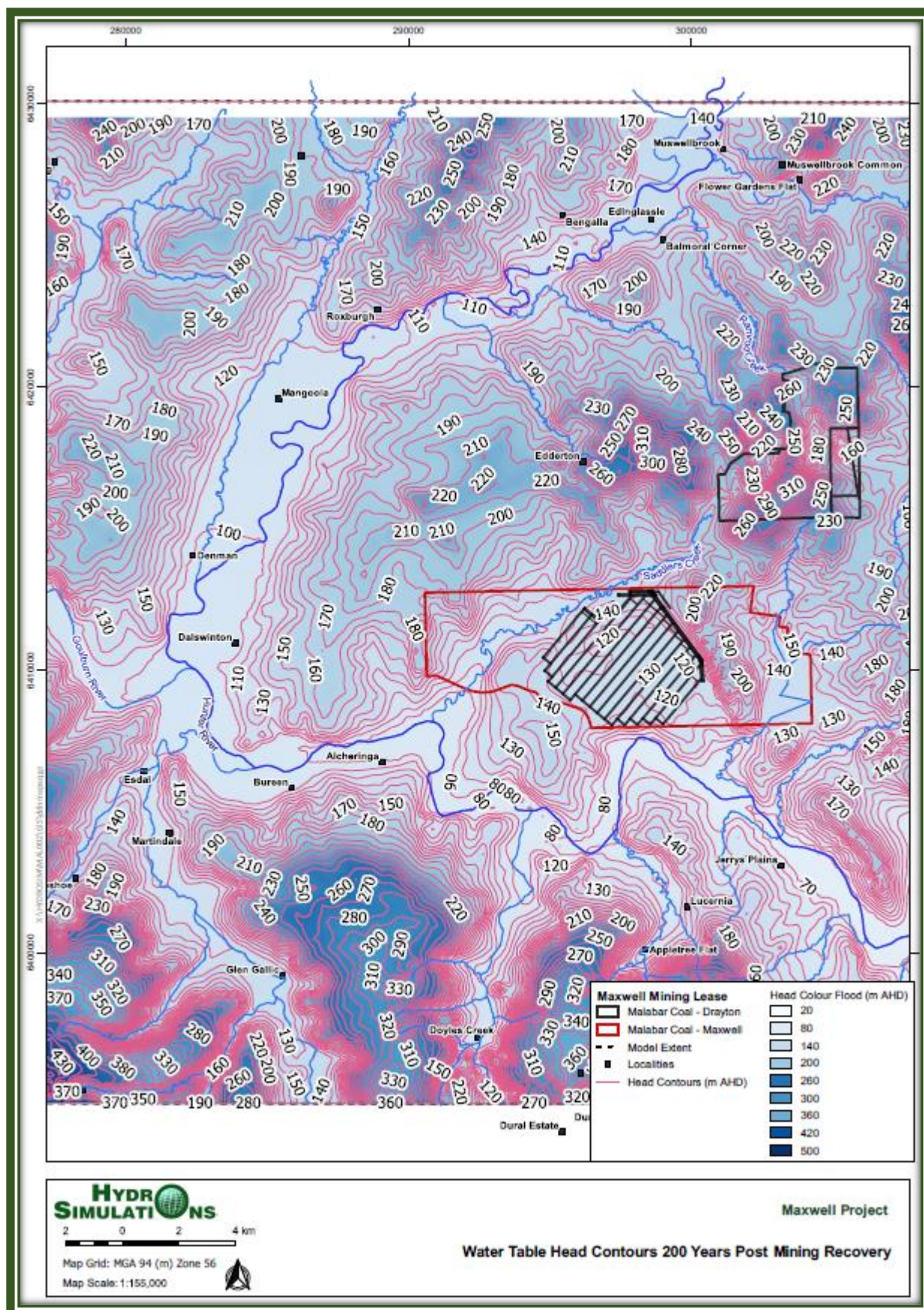


Figure 61 Predicted water table contours, 200 years after mining

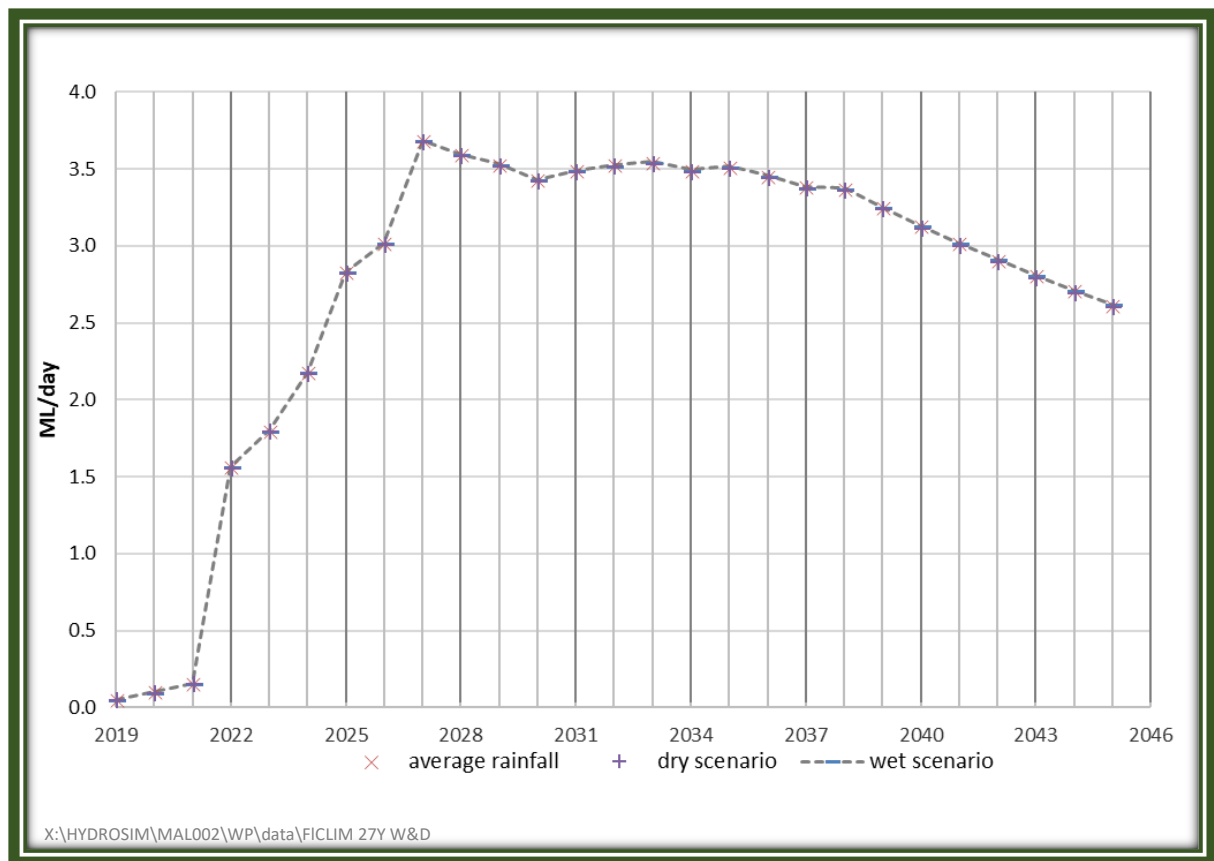


Figure 62 Predicted mine inflows for climate change scenarios

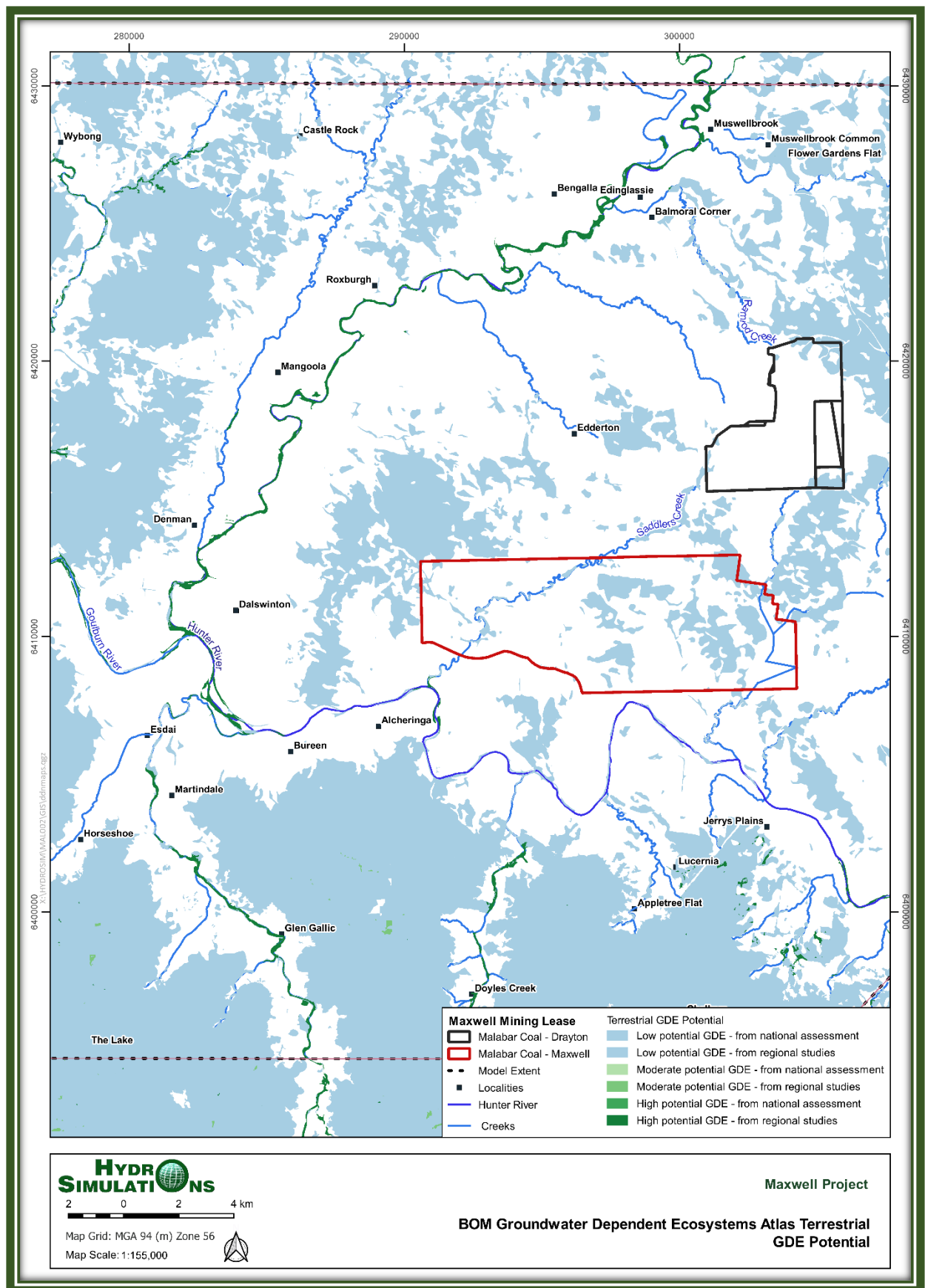


Figure 63 Potential GDEs from the GDE Atlas for the Project area

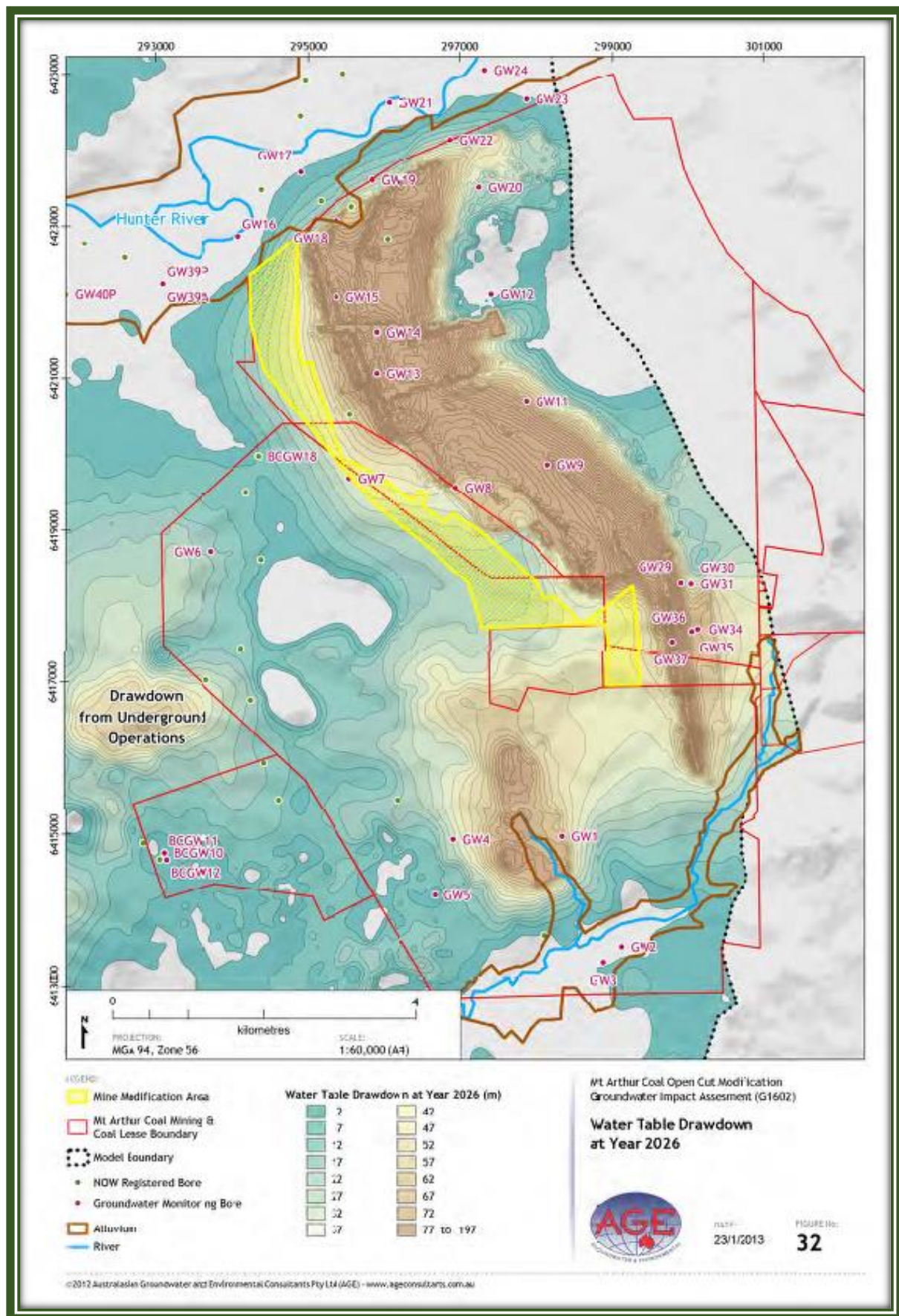


Figure 64 Predicted water table drawdown from Mount Arthur mine (AGE 2013 Figure 32)

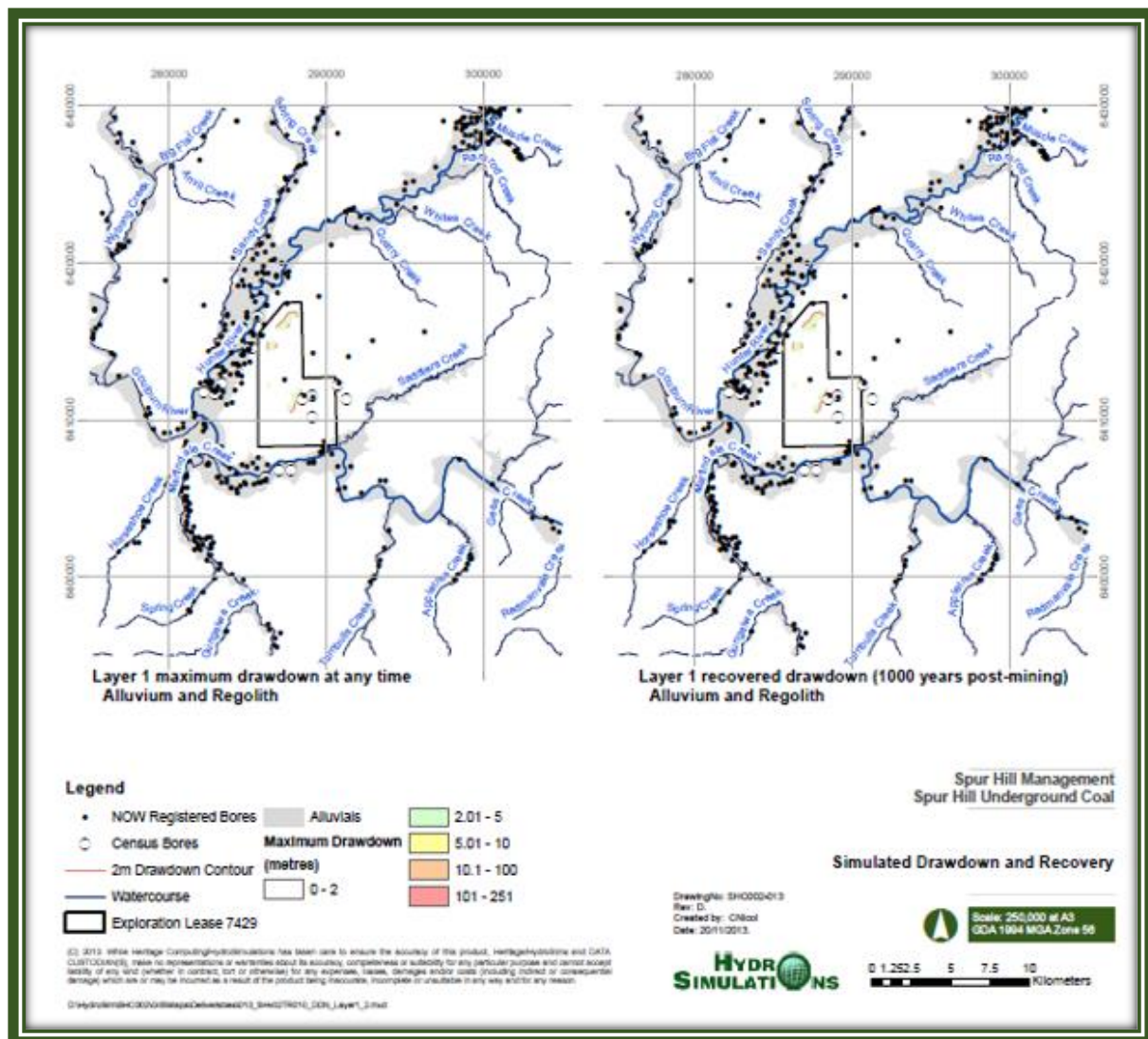


Figure 65 Predicted water table drawdown from Spur Hill Underground Coking Coal Project (Heritage Computing 2013 Figure 32)

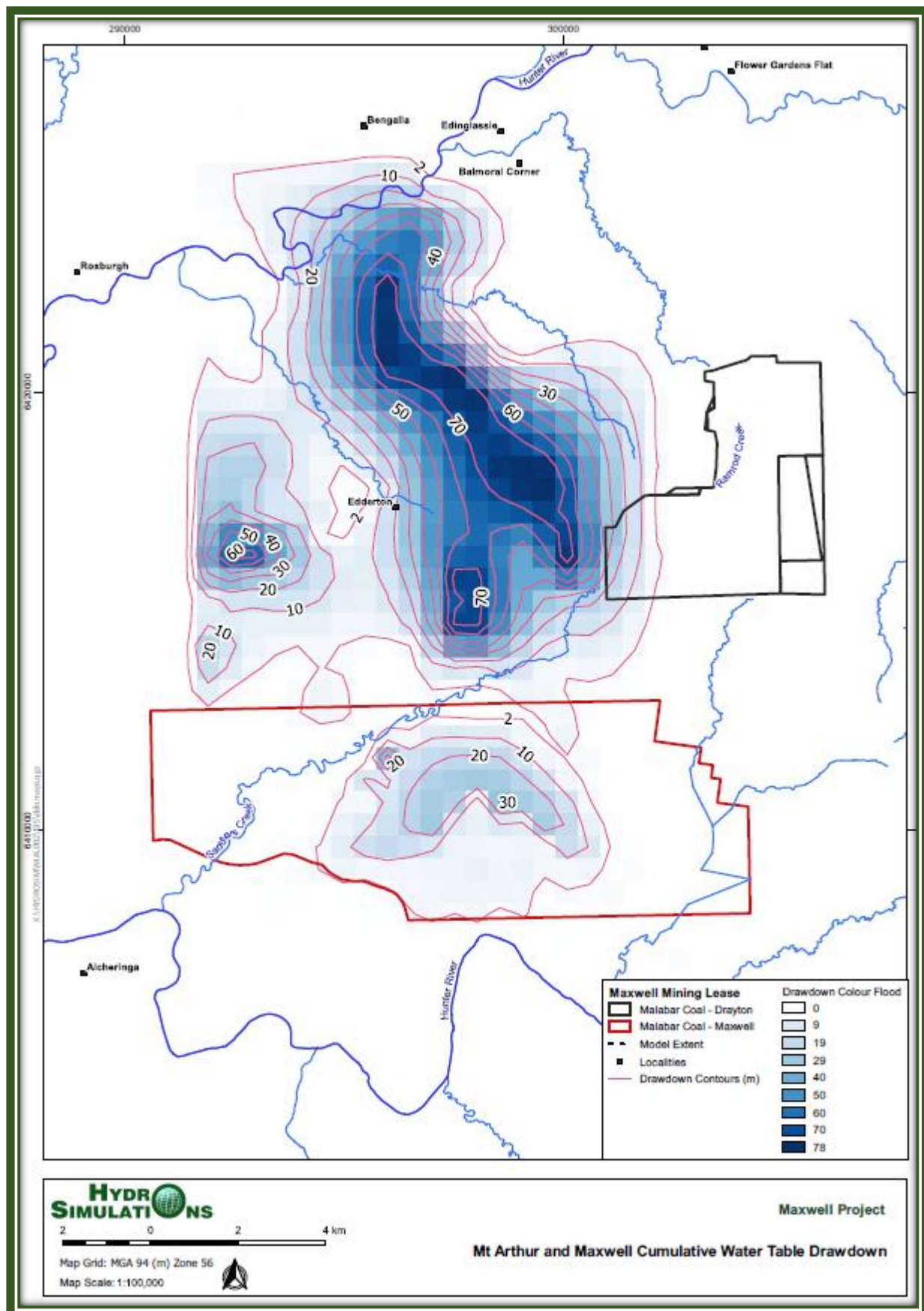


Figure 66 Mount Arthur Mine and Maxwell predicted cumulative water table drawdown

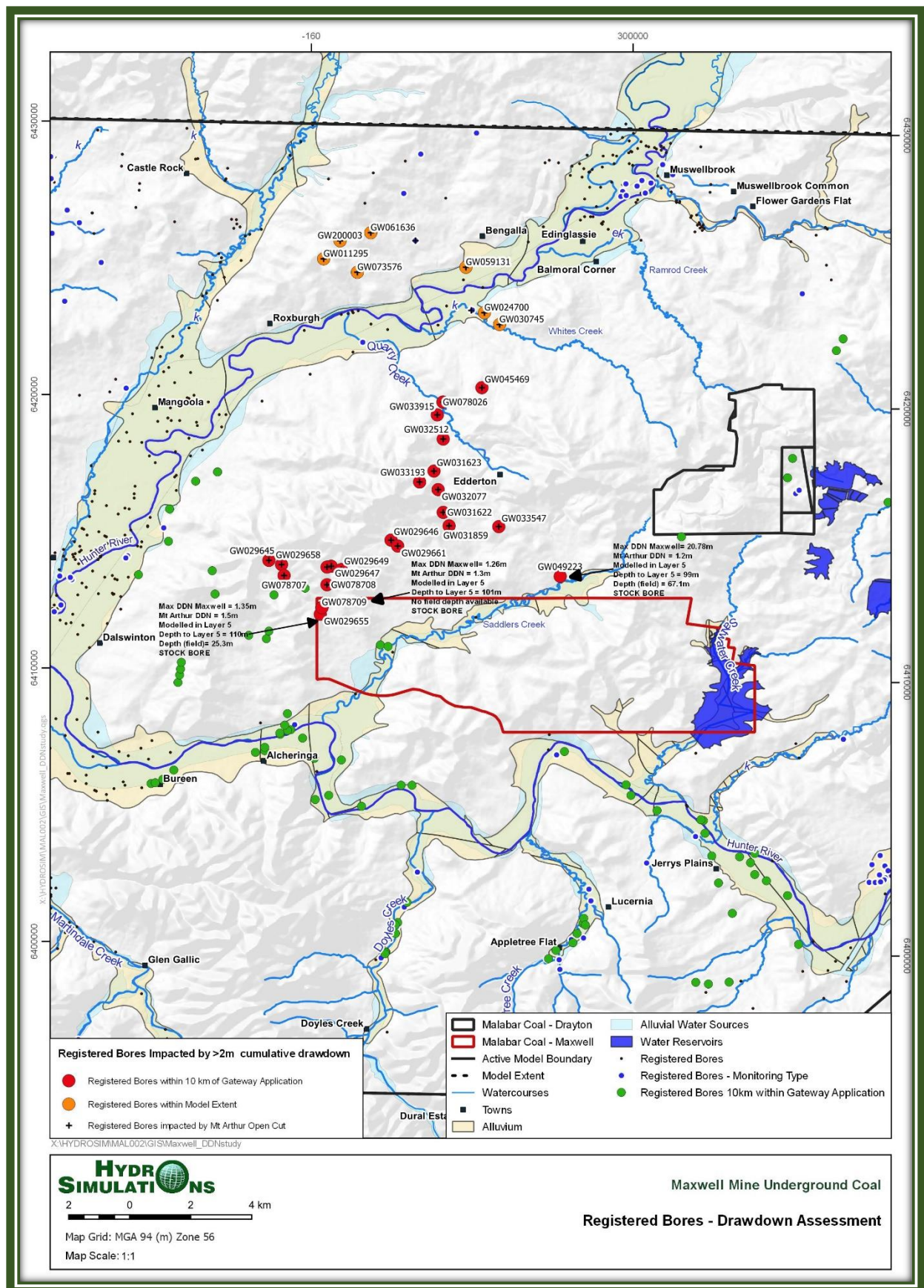
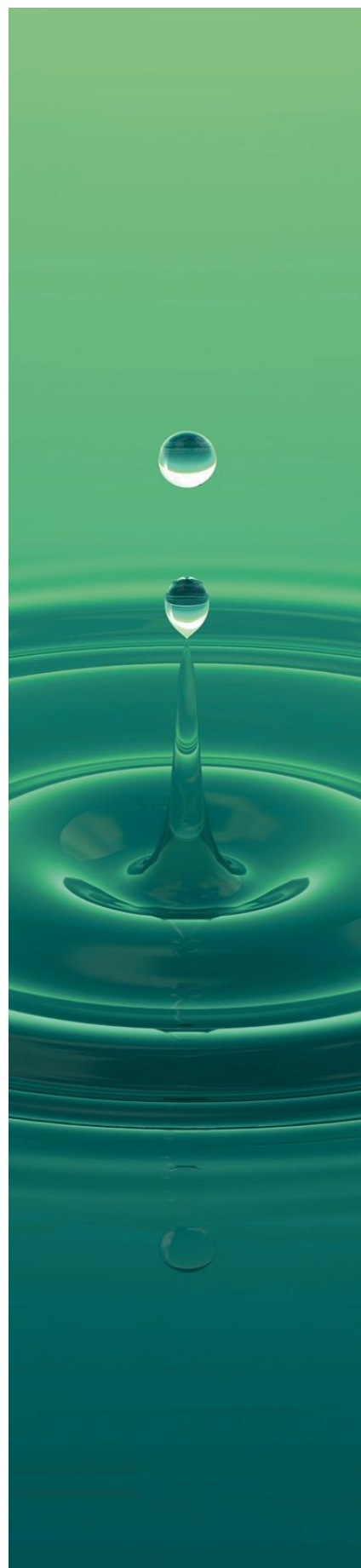


Figure 67 Locations of Registered bores with greater than 2m predicted cumulative drawdown

APPENDIX A

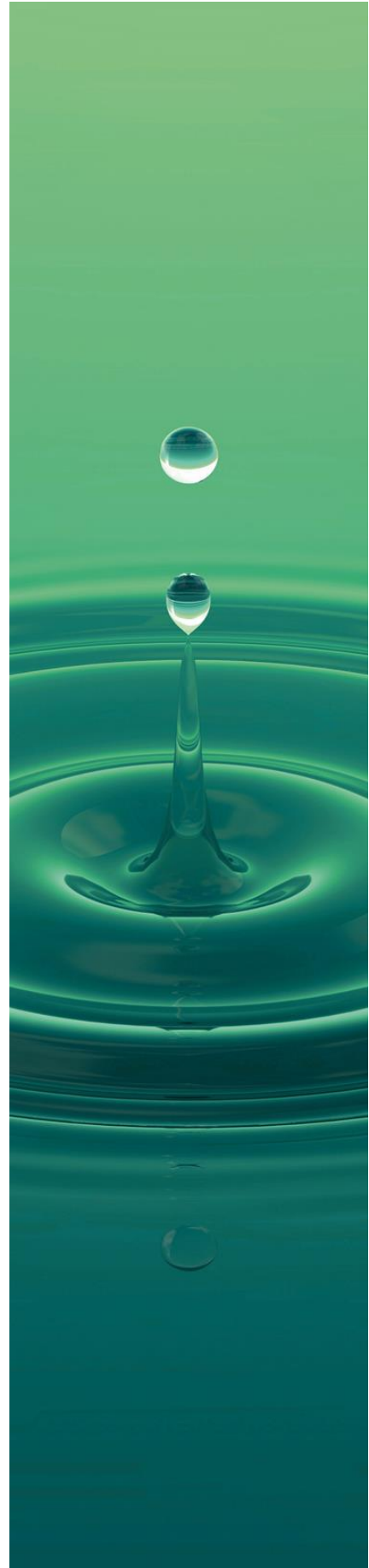
IESC INFORMATION GUIDELINE – SUMMARY CHECKLIST



IESC Information Needs Summary	Section Addressed	Further Assessment in EIS
Description of the Proposal	Section 1	✓
<i>Statutory Context</i>	Sections 2 & 8	✓
Risk Assessment	Section 2.3	✓
Groundwater – Context and Conceptualisation	Section 3	✓
Groundwater – Analytical and Numerical Modelling	Sections 4 & 5	✓
<i>Uncertainty Analysis and Sensitivity Analysis</i>	Section 7	✓
Groundwater – Impacts to Water Resources and Water-dependent Assets	Section 6	✓
Groundwater – Data and Monitoring	Sections 3.6 & 10	✓
Surface Water – Context and Conceptualisation	Section 3.4	✓
Surface Water – Analytical and Numerical Modelling	Sections 4 & 5	✓
Surface Water – Impacts to Water Resources and Water-dependent Assets	Section 6	✓
Surface Water – Data and Monitoring	Sections 3.4 & 10.5	✓
Water-dependent Assets – Context and Conceptualisation	Section 6.2	✓
Water-dependent Assets – Impacts, Risk Assessment and Management of Risks	Sections 6.2 & 6.3	✓
Water-dependent Assets – Data and Monitoring	Sections 3.6 & 10	✓
Water and Salt Balance, and Water Quality	Sections 5 & 6.7	✓
Cumulative Impacts – Context and Conceptualisation	Sections 1.3 & 6.5	✓
Cumulative Impacts – Impacts	Section 6.5	✓
Cumulative Impacts – Mitigation, Monitoring and Management	Sections 9 & 10.7	✓
Subsidence – Underground Coal Mines and Coal Seam Gas	Sections 3.9.4 & 4.6	✓
Final Landforms and Voids – Coal Mines	Sections 1.2.3, 9 & 10.6	✓
Acid-forming Materials and Other Contaminants of Concern	Section 3.6.7	✓
CSG Well Construction and Operation	Not Applicable	Not Applicable

APPENDIX B

REGISTERED BORES WITHIN 10 KM OF THE GATEWAY APPLICATION AREA



WORK NO.	LICENCE	EASTING	NORTHING	PURPOSE	DEPTH	MALABAR OWNED
GW011873	20BL004991	287404	6417282	STOCK/DOMESTIC	11	YES
GW011896	20BL004993	285943	6415895	STOCK/DOMESTIC	12.2	YES
GW013589	20BL009072	301295	6405179	NOT KNOWN	10.7	NO
GW017612	20BL009856	292995	6399835	NOT KNOWN	12.2	NO
GW017613	20BL009857	292969	6399834	NOT KNOWN	12.2	NO
GW018044	20BL010051	299080	6401006	NOT KNOWN	9.1	NO
GW018046	20BL010053	303013	6398866	NOT KNOWN	18.3	NO
GW018047	20BL010041	302620	6398920	NOT KNOWN	36.3	NO
GW018741	20BL010956	285027	6413472	NOT KNOWN	9.1	NO
GW018743	20BL010943	285582	6405842	IRRIGATION	10.3	NO
GW019786	20BL012980	293678	6405950	NOT KNOWN	12.8	NO
GW022686	20BL014848	302739	6404838	NOT KNOWN	13.4	NO
GW022688	20BL014849	302660	6404868	NOT KNOWN	13.4	NO
GW024022	20BL018027	308245	6416589	NOT KNOWN	3	NO
GW024396	20BL017712	302800	6404377	NOT KNOWN	14.6	NO
GW024473	20BL019089	298265	6400004	IRRIGATION	10.4	NO
GW027188	20BL020065	285944	6406003	IRRIGATION	12.2	NO
GW027189	20BL020064	286277	6406350	NOT KNOWN	12.2	NO
GW029155	20BL022682	305403	6402148	NOT KNOWN	10.1	NO
GW029644	20BL023940	289048	6411215	STOCK/DOMESTIC	28.7	NO
GW029645	20BL023939	289066	6414082	NOT KNOWN	18.3	NO
GW029646	20BL023938	292841	6414900	NOT KNOWN	9.1	NO
GW029647	20BL023417	291005	6413906	STOCK/DOMESTIC	36.6	NO
GW029648	20BL023418	290875	6413873	STOCK/DOMESTIC	31.1	NO
GW029649	20BL023419	291321	6413790	NOT KNOWN	25.9	NO
GW029650	20BL023416	286339	6409556	STOCK	67.1	NO
GW029651	20BL023415	286385	6409834	STOCK	54.9	NO
GW029652	20BL023414	286407	6410050	STOCK	91.4	NO
GW029653	20BL023413	286428	6410297	STOCK	48.8	NO
GW029654	20BL023411	289250	6412822	STOCK	95.1	NO
GW029655	20BL023405	290702	6412144	STOCK	25.3	NO
GW029656	20BL023410	289759	6408488	STOCK	16.5	NO
GW029657	20BL023409	288497	6411327	STOCK/DOMESTIC	5.8	NO
GW029658	20BL023408	289462	6413936	STOCK	55.8	NO
GW029659	20BL023407	289121	6411494	STOCK/DOMESTIC	74.7	NO
GW029660	20BL023412	290211	6413089	STOCK	74.7	NO
GW029661	20BL023406	293054	6414688	STOCK	42.7	NO
GW031622	20BL024276	294440	6415949	STOCK	91.4	NO
GW031623	20BL023652	294122	6417453	STOCK	38.1	NO
GW031859	20BL024674	294633	6415460	STOCK	61	NO
GW032077	20BL024716	294266	6416778	STOCK	53.3	NO

WORK NO.	LICENCE	EASTING	NORTHING	PURPOSE	DEPTH	MALABAR OWNED
GW032512	20BL024338	294386	6418629	STOCK	33.5	NO
GW032632	20BL025579	303253	6402568	DOMESTIC	33.5	NO
GW033193	20BL026154	293686	6417043	STOCK	46.9	NO
GW033547	40BL026898	296176	6415461	STOCK	12	NO
GW033915	20BL024261	294185	6419509	STOCK	39.6	NO
GW037934	20BL102826	298782	6400292	IRRIGATION	12.1	NO
GW038185	20BL102827	298905	6400633	IRRIGATION	8.5	NO
GW043225	20BL029731	303653	6398949	IRRIGATION	22.5	NO
GW043365	20BL029750	300475	6405718	STOCK	6.4	NO
GW043988	20BL102420	287420	6412814	STOCK	8.8	NO
GW045158	20BL102970	289876	6407905	STOCK/DOMESTIC	13.4	NO
GW045159	20BL103425	289772	6407872	STOCK/DOMESTIC	4.6	NO
GW045160	20BL103426	289550	6407725	STOCK/DOMESTIC	14	NO
GW045161	20BL103430	289685	6408064	STOCK/DOMESTIC	10.7	NO
GW045469	20BL103870	295550	6420532	STOCK	49.1	NO
GW047305	20BL108157	298380	6407278	INDUSTRIAL	11	NO
GW047486	20BL111869	305249	6418136	INDUSTRIAL	92	NO
GW047690	20BL112855	306533	6422105	IRRIGATION	6.7	NO
GW049187	20BL108626	303025	6403550	IRRIGATION	10	NO
GW049223	20BL106334	298120	6413682	STOCK	67.1	NO
GW050849	20BL112920	287404	6417282	STOCK	27	YES
GW053347	20BL120900	291466	6406829	IRRIGATION	14	NO
GW053348	20BL120901	293339	6405943	NOT KNOWN	13	NO
GW053349	20BL120902	291101	6405527	IRRIGATION	11.5	NO
GW053444	20BL119122	288796	6407050	IRRIGATION	10.3	NO
GW053533	20BL121170	285712	6405875	IRRIGATION	12.5	NO
GW053708	20BL117803	304231	6403327	IRRIGATION	13.4	NO
GW053709	20BL119757	304370	6402898	IRRIGATION	12.2	NO
GW053710	20BL121005	304355	6403668	IRRIGATION	12.2	NO
GW053804	20BL107883	299103	6401192	NOT KNOWN	7	NO
GW053862	20BL122620	305106	6417425	INDUSTRIAL	99	NO
GW055208	20BL119616	306734	6422540	STOCK/DOMESTIC	53	NO
GW057804	20BL124102	289082	6407118	IRRIGATION	10	NO
GW057805	20BL126436	289080	6407241	IRRIGATION	13	NO
GW059178	20BL128781	303887	6403536	PUBLIC/MUNICIPAL	13.9	NO
GW060029	20BL130357	293610	6401665	IRRIGATION	5	NO
GW060030	20BL130358	293338	6400920	IRRIGATION	7	NO
GW060031	20BL130360	293277	6400519	IRRIGATION	9	NO
GW060263	20BL121979	301855	6415205	INDUSTRIAL	61	YES
GW060488	20BL119373	289539	6407774	IRRIGATION	16	NO
GW062557	20BL134254	286731	6416929	STOCK/DOMESTIC	45	YES

WORK NO.	LICENCE	EASTING	NORTHING	PURPOSE	DEPTH	MALABAR OWNED
GW064232	20BL136389	292128	6405148	STOCK/DOMESTIC	6.5	NO
GW065014	20BL166572	305777	6400368	IRRIGATION	14.5	NO
GW065521	20BL144007	290248	6407604	IRRIGATION	13.3	NO
GW078332	20BL166324	303704	6401464	STOCK/DOMESTIC	42.68	NO
GW078469	20BL167175	292966	6399770	STOCK/DOMESTIC	5	NO
GW078519	20BL167317	290629	6406873	STOCK	12	NO
GW078520	20BL167315	290686	6405364	STOCK	15	NO
GW078582	20BL167517	299156	6400947	IRRIGATION	8	NO
GW078705	20BL167419	298037	6399691	STOCK/DOMESTIC	9	NO
GW078707	20BL167441	289548	6413537	STOCK	43	NO
GW078708	20BL167442	290888	6413226	STOCK	43	NO
GW078722	20BL167495	304737	6402674	STOCK/DOMESTIC	15	NO
GW200957	20BL171157	308715	6411207	DEWATERING (GROUNDWATER)	60	NO
GW201118	20BL169060	285934	6414712	STOCK/DOMESTIC	18.5	NO
GW201830	20BL167445	287315	6413665	STOCK	40	NO
GW202373	20BL166720	293265	6400830	IRRIGATION	-	NO
GW202451	20WA21119	300315	6406100	STOCK/DOMESTIC	-	YES
GW202452	20WA21120	292590	6411060	STOCK/DOMESTIC	-	YES
GW202453	20WA21120	292830	6411010	STOCK/DOMESTIC	-	YES

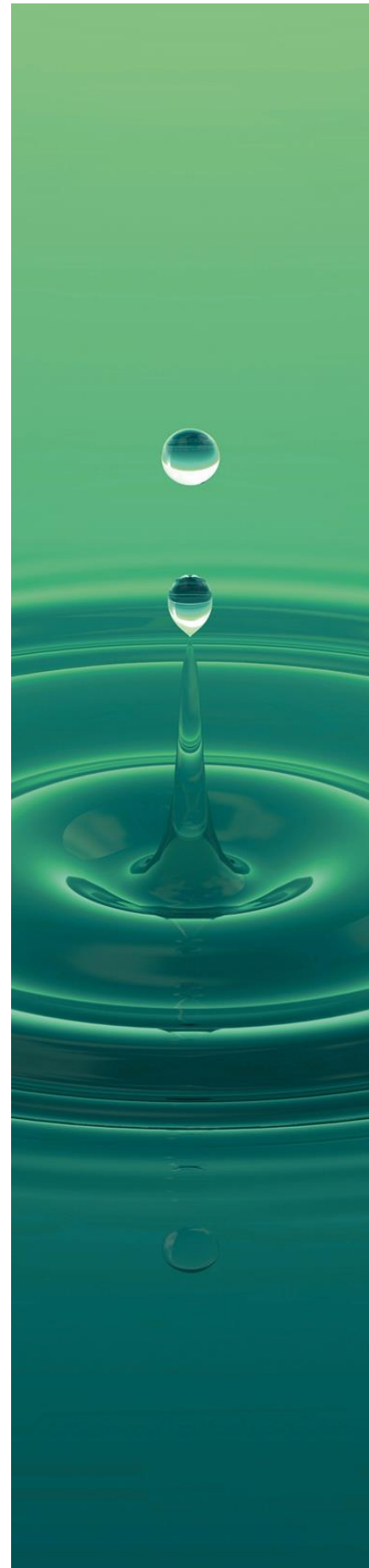
APPENDIX C

CALIBRATION TARGET BORE LOCATIONS

Calibration bore labels (ID), location (eastings and northings, mAHD MGA94 zone 56), elevations and target water levels (mAHD).

Identifiers:

Label	Location
SH, RB, Census	Spur Hill
DD	Drayton South (Maxwell)
GW	Mt Arthur
F, R	Drayton Mine



Bore Name	Easting	Northing	Measured Values	Computed Values
GW065521	290248	6407604	89.7	87.4
GW080234	292687	6399542	98.4	98.8
GW271031	298140	6407151	77.9	85.4
GW271033	293911	6402775	85.3	84.6
GW271034	289990	6408087	87.4	87.5
GW043225	303653	6398949	107.6	133.4
GW045161	289685	6408064	97.0	90.6
GW060031	293277	6400519	91.0	94.1
Census01	282186	6411760	93.0	96.9
Census02	282930	6411667	94.1	97.3
Census03	283393	6412201	92.9	98.0
Census04	283358	6412303	92.7	98.1
Census05	291306	6411261	119.0	134.9
Census06	287746	6406958	91.0	88.9
Census07	287741	6407022	91.9	88.9
Census08	287760	6406777	88.8	89.1
Census09	287012	6406797	91.1	89.5
Census10_GW027189	286181	6406296	94.2	91.7
Census11	286166	6406356	94.0	91.4
GW080077	284620	6414073	101.1	99.8
GW273104	275600	6412845	103.7	109.7
GW080434	278661	6426103	129.4	138.6
SHD3-40	287944	6417265	132.0	142.0
SHD3-88	287944	6417265	133.5	142.0
SHD3-150	287944	6417265	136.3	144.7
SHD3-183	287944	6417265	136.2	145.0
SHD3-250	287944	6417265	133.6	145.5
SHD3-287	287944	6417265	129.6	145.4
SHD3-330	287944	6417265	126.1	145.7
SHD3-370	287944	6417265	125.4	146.3
SHD5-85m	286139	6415822	128.1	127.8
SHD5-165m	286139	6415822	123.8	130.3
SHD5-185m	286139	6415822	121.0	140.0
SHD5-202m	286139	6415822	115.0	140.0
SHD5-262m	286139	6415822	117.3	140.0
SHD5-313m	286139	6415822	114.4	141.4
SHD5-358m	286139	6415822	111.3	141.6
SHD5-430m	286139	6415822	113.1	142.1

SHD6-65	288800	6408420	96.8	118.1
SHD6-100	288800	6408420	89.4	111.6
SHD6-141	288800	6408420	88.8	111.6
SHD6-190	288800	6408420	88.6	127.0
SHD6-260	288800	6408420	98.3	127.0
SHD6-327	288800	6408420	101.2	131.2
SHD6-370	288800	6408420	106.5	131.5
SHD6-418	288800	6408420	109.0	132.7
SHD10-50	286874	6412265	122.8	155.8
SHD10-90	286874	6412265	119.5	155.8
SHD10-135	286874	6412265	122.7	146.0
SHD10-212	286874	6412265	126.5	142.6
SHD10-225	286874	6412265	125.4	142.6
SHD10-267	286874	6412265	122.9	142.6
SHD10-333	286874	6412265	123.0	142.0
SHD10-383	286874	6412265	123.5	145.2
SHD17-185	287032	6408365	100.2	139.6
SHD17-263	287032	6408365	101.4	139.6
SHD17-305	287032	6408365	100.3	124.1
SHD17-335	287032	6408365	110.1	124.1
SHD17-417	287032	6408365	107.3	133.3
SHD17-584	287032	6408365	111.5	137.0
DD1004	299797	6410922	140.4	158.7
DD1005	298798	6410902	151.3	153.5
DD1014	296799	6410864	136.0	145.9
DD1015	298814	6409900	128.0	145.5
DD1016	297800	6410883	144.2	149.9
DD1025	298764	6411902	158.9	158.1
DD1032	297143	6412496	131.4	160.6
DD1043	295199	6409459	127.1	138.0
DD1052	296273	6408514	115.1	133.7
DD1030	301754	6408961	131.0	148.3
DD1057	295180	6410459	126.3	137.6
MB1_Alluvial	297933	6407459	73.2	77.3
MB1_Whybrow	297928	6407449	74.2	88.6
MB1_Redbank	297931	6407454	74.9	101.3
MB2_Alluvial	294999	6411669	112.7	111.8
MB2_Regolith	295004	6411675	115.9	125.8
MB3_Alluvial	297269	6412851	129.9	132.5
MB3_Regolith	297328	6412729	126.9	145.9
MB4_Alluvial	300302	6406234	71.1	80.6

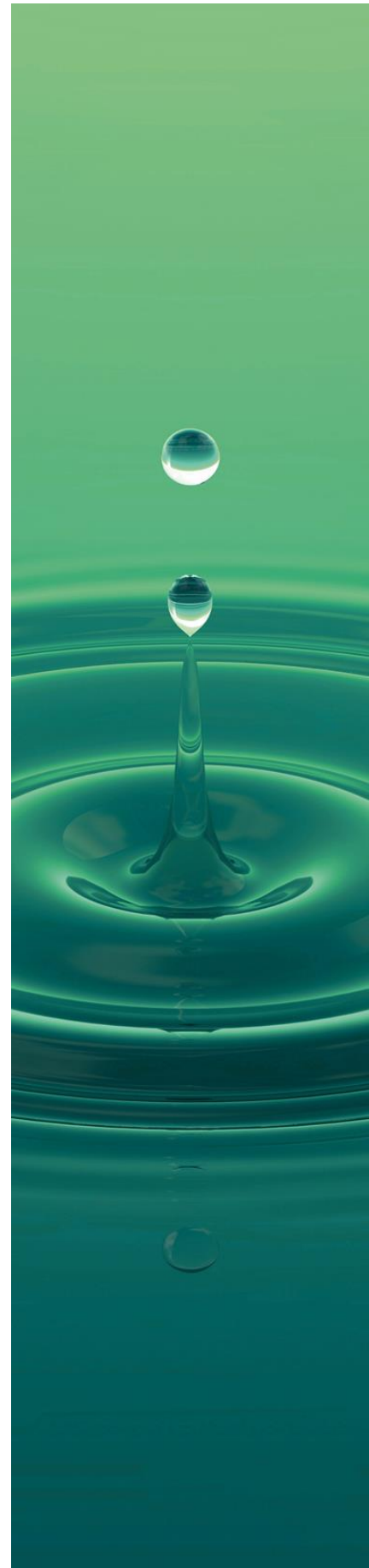
MB4_Regolith	300307	6406231	70.9	80.5
GW1	298410	6414945	161.7	172.4
GW2	299045	6413511	145.9	165.2
GW3	298856	6413389	145.6	163.9
GW4	296976	6414871	175.5	182.2
GW5	296476	6414860	171.6	177.8
GW6	294254	6418579	174.4	182.6
GW7	295635	6419594	173.7	203.1
GW8	296993	6419486	182.2	199.4
GW9	298224	6419734	182.7	206.3
GW10	300025	6418547	218.6	224.9
GW12	297458	6421988	147.8	160.7
GW13	295985	6420977	161.6	171.2
GW15	295466	6421968	140.6	159.3
GW16	294197	6422759	122.7	113.8
GW17	295003	6423570	124.5	119.2
GW19	295938	6423477	137.3	152.6
GW21	296141	6424483	127.2	114.8
GW22	296930	6423998	139.4	154.8
GW23	297919	6424515	139.5	157.0
GW24	297386	6424914	129.6	126.0

APPENDIX D

MONITORING BORE HYDROGRAPHS

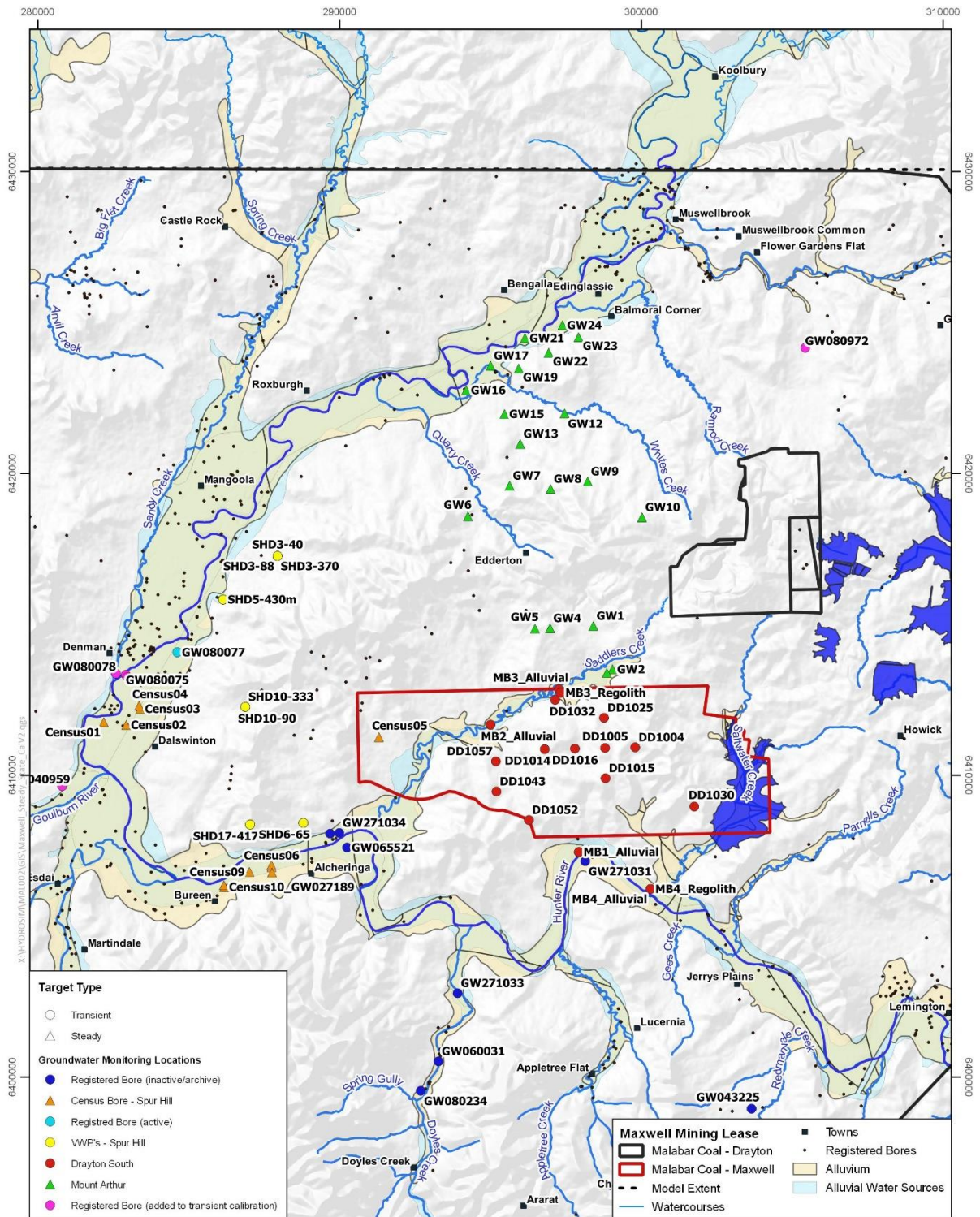
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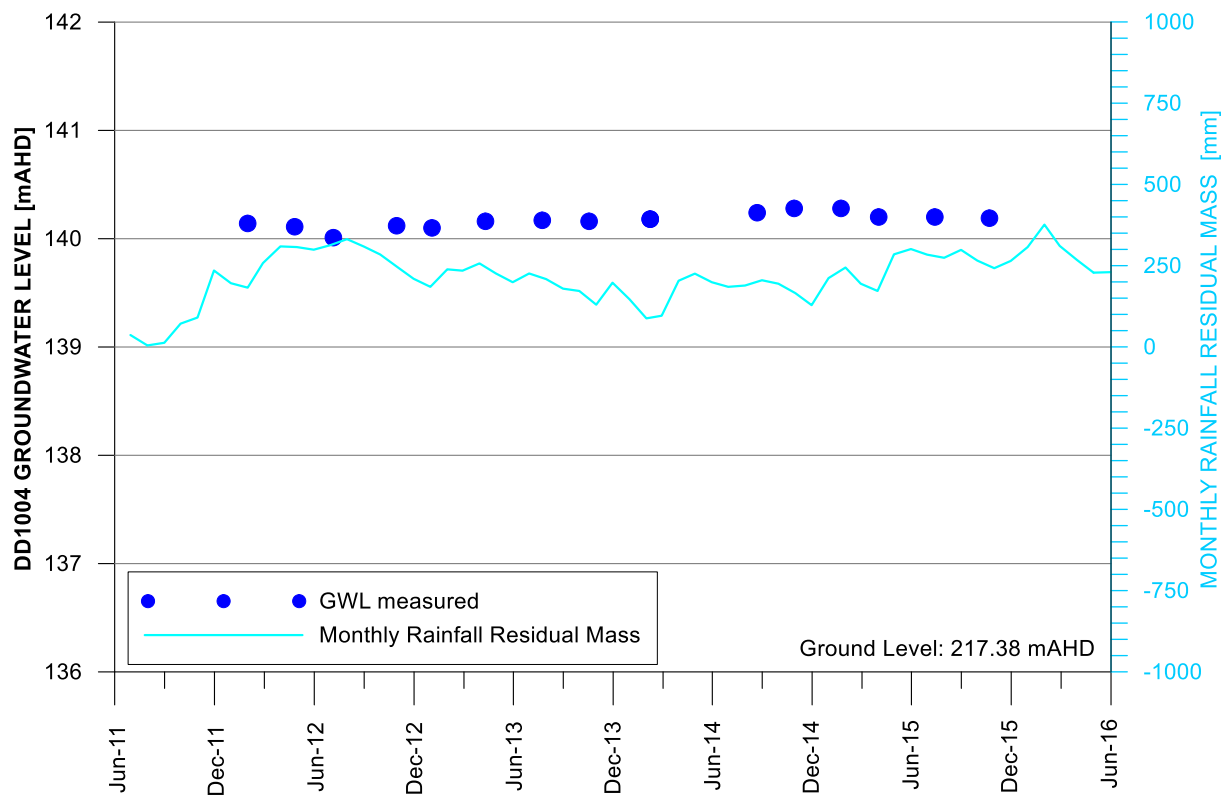


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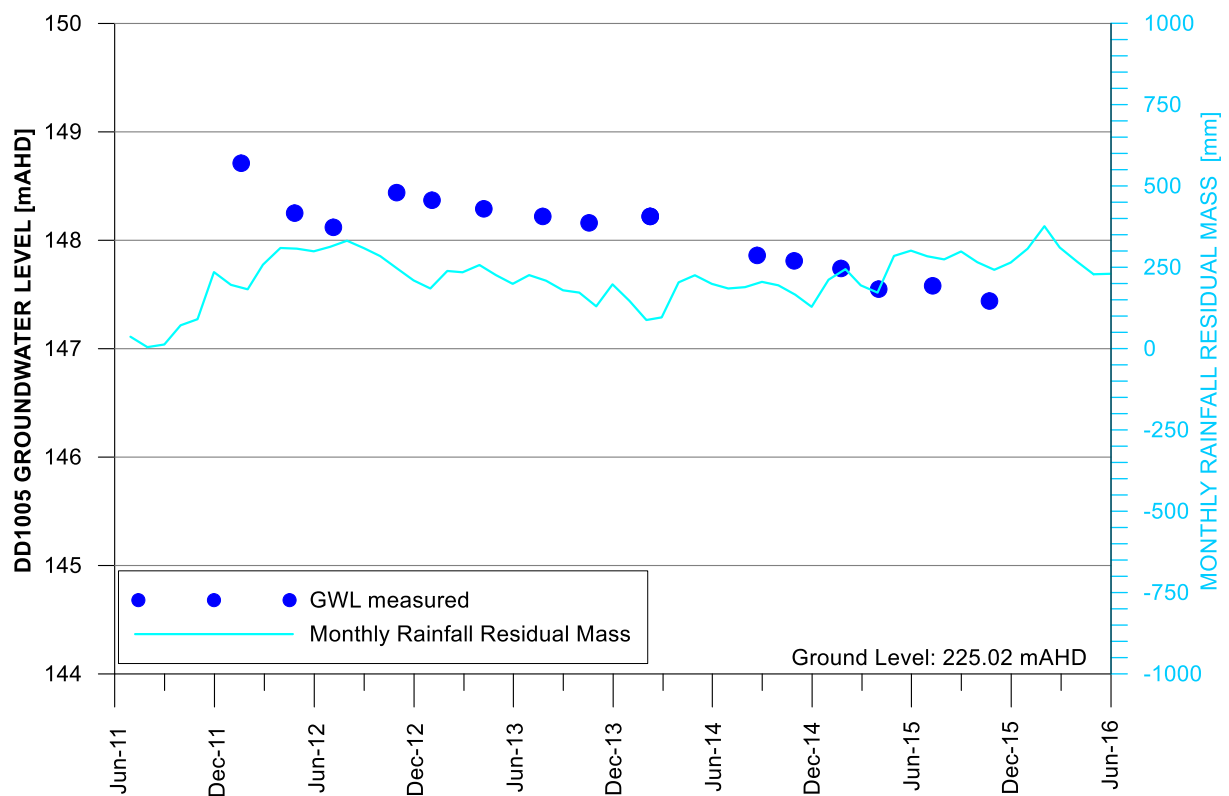
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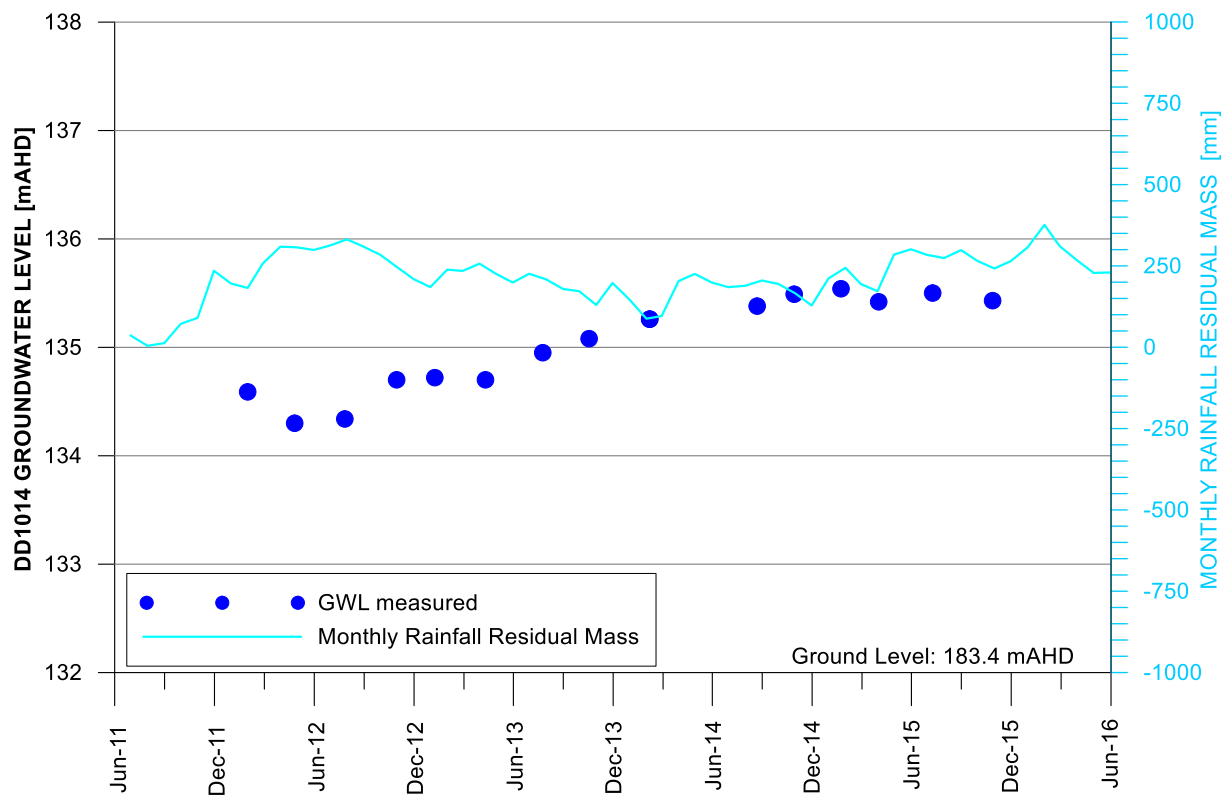
D 1 Bore locations



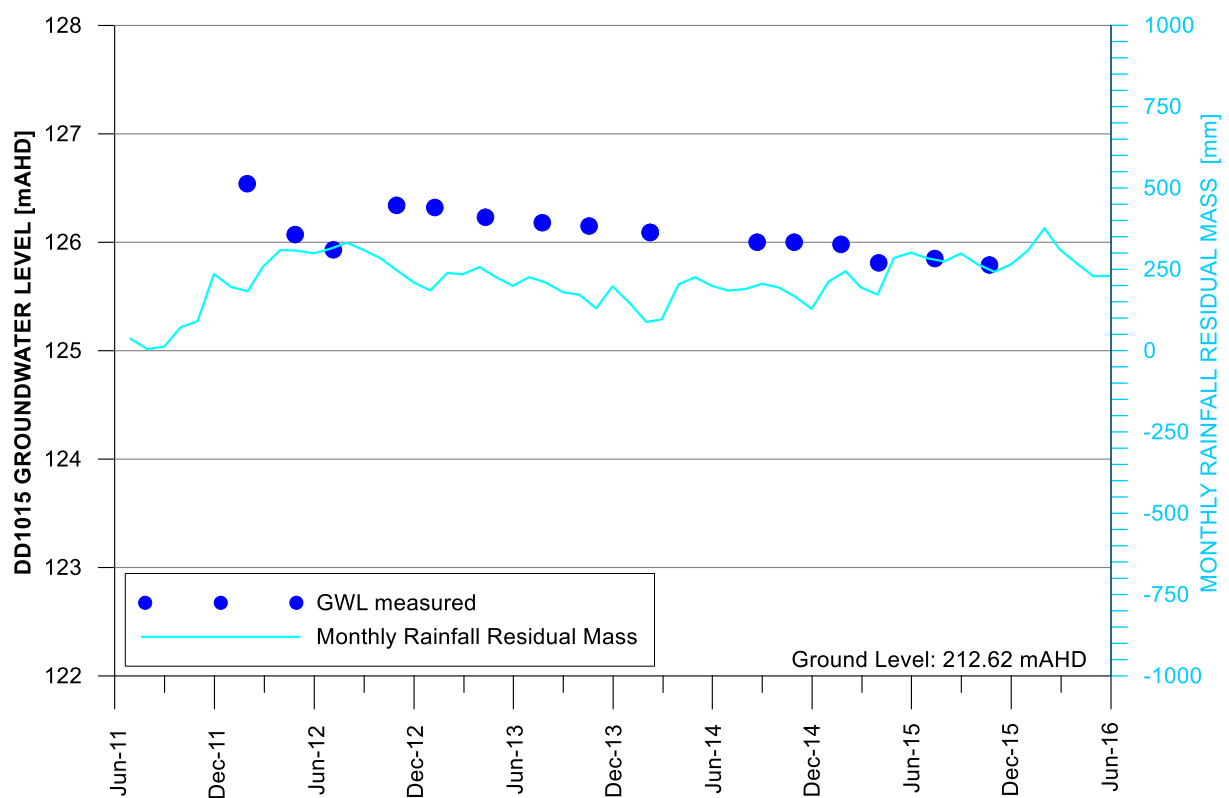
D 2 GW level and monthly rainfall residual mass, bore DD1004



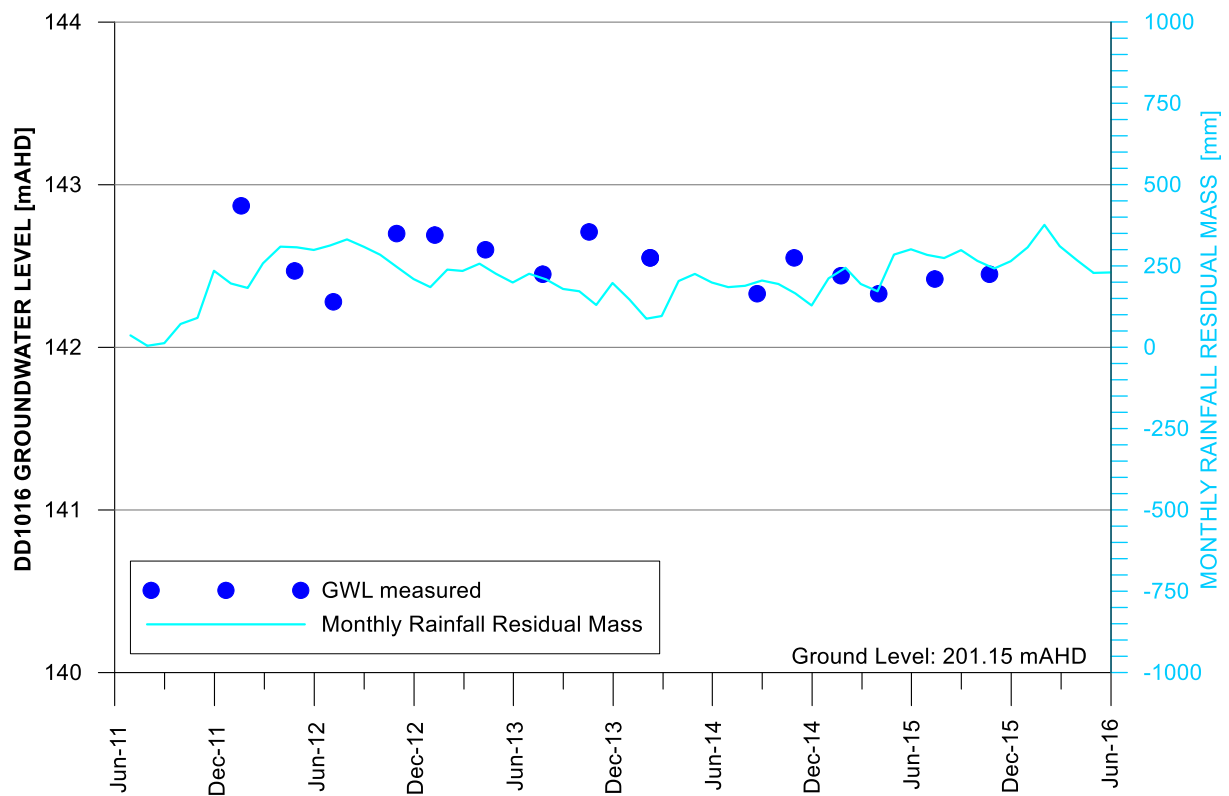
D 3 GW level and monthly rainfall residual mass, bore DD1005



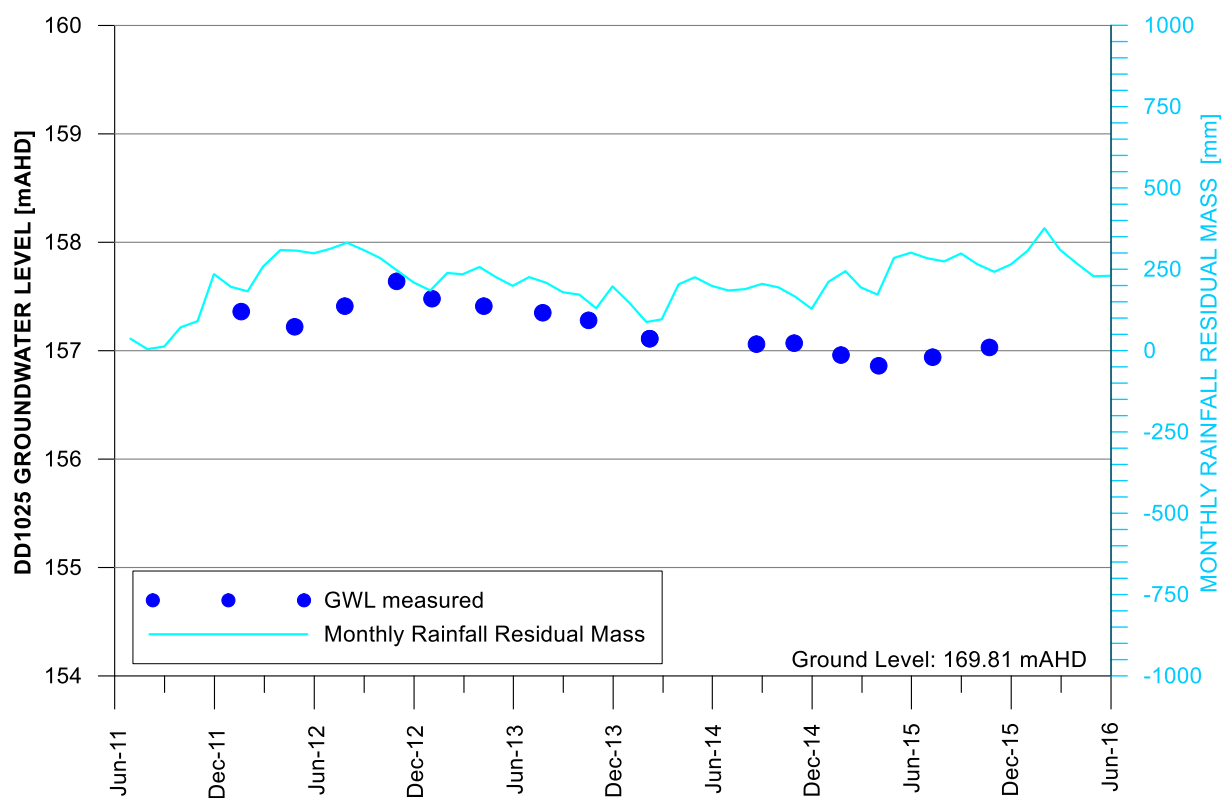
D 4 GW level and monthly rainfall residual mass, bore DD1014



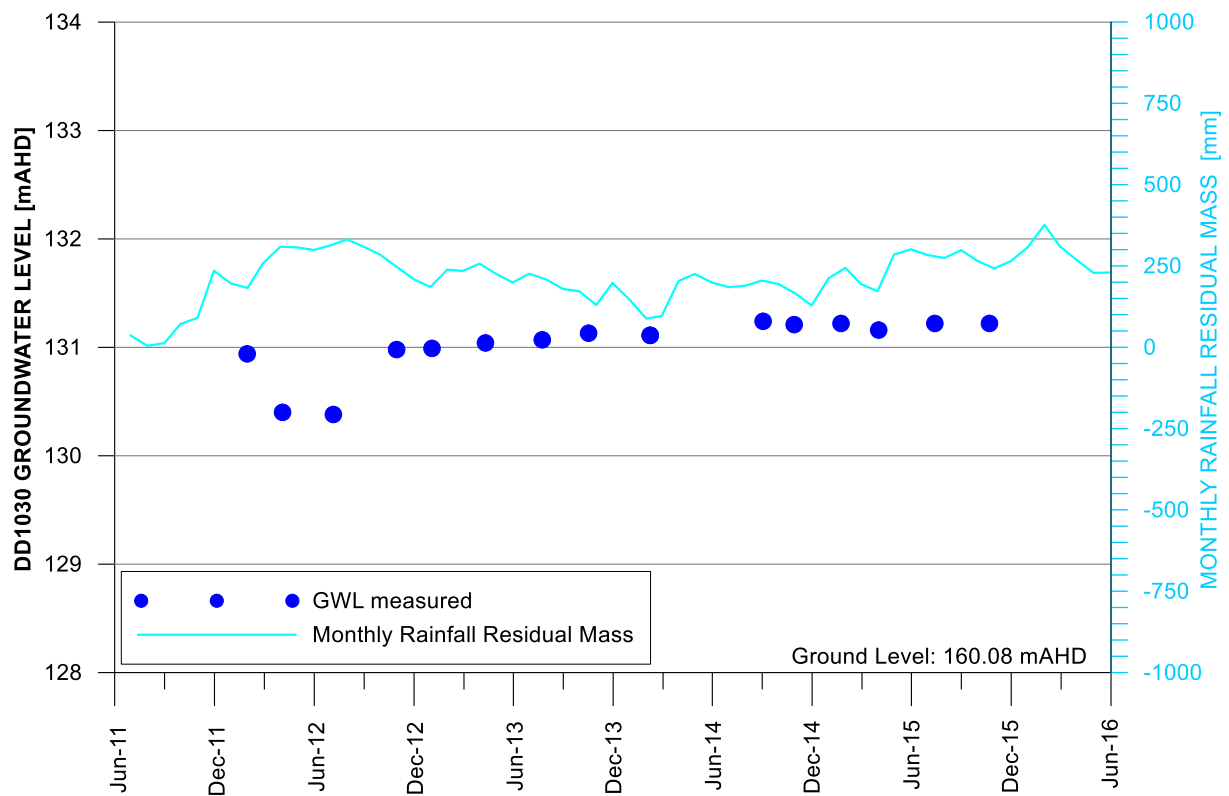
D 5 GW level and monthly rainfall residual mass, bore DD1015



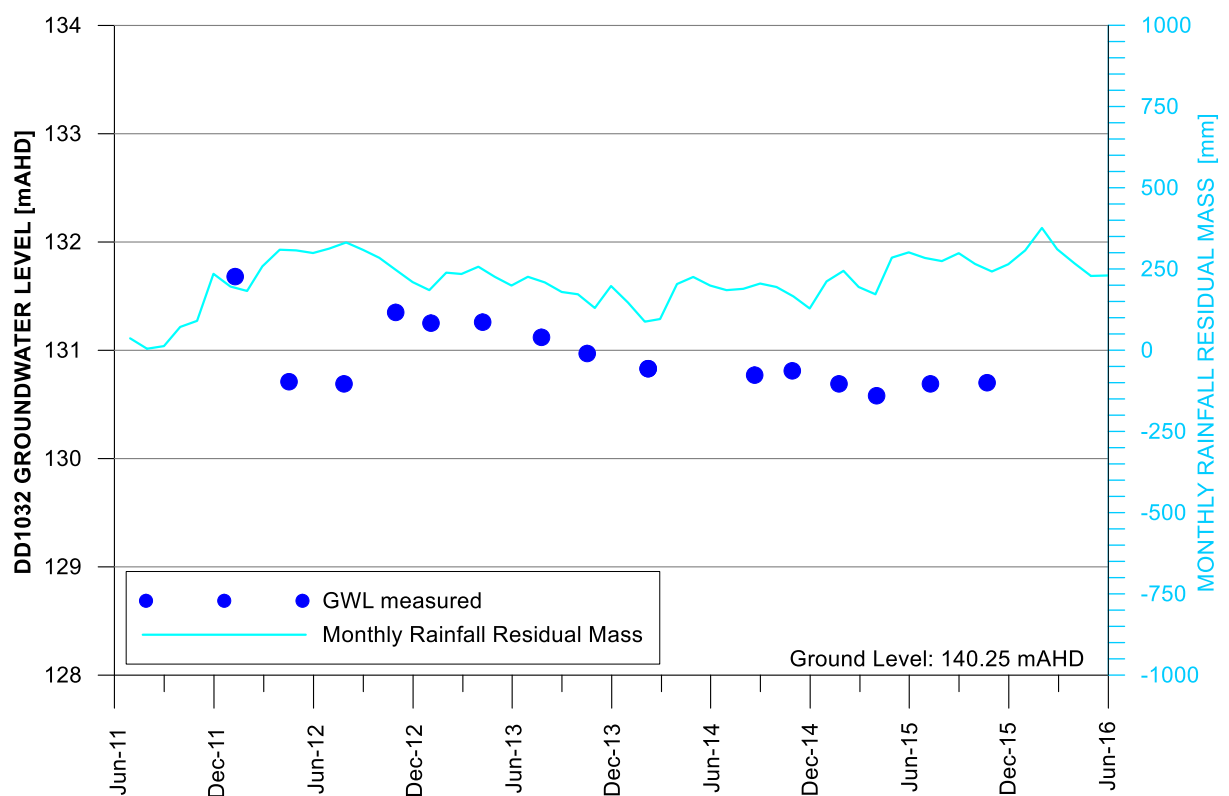
D 6 GW level and monthly rainfall residual mass, bore DD1016



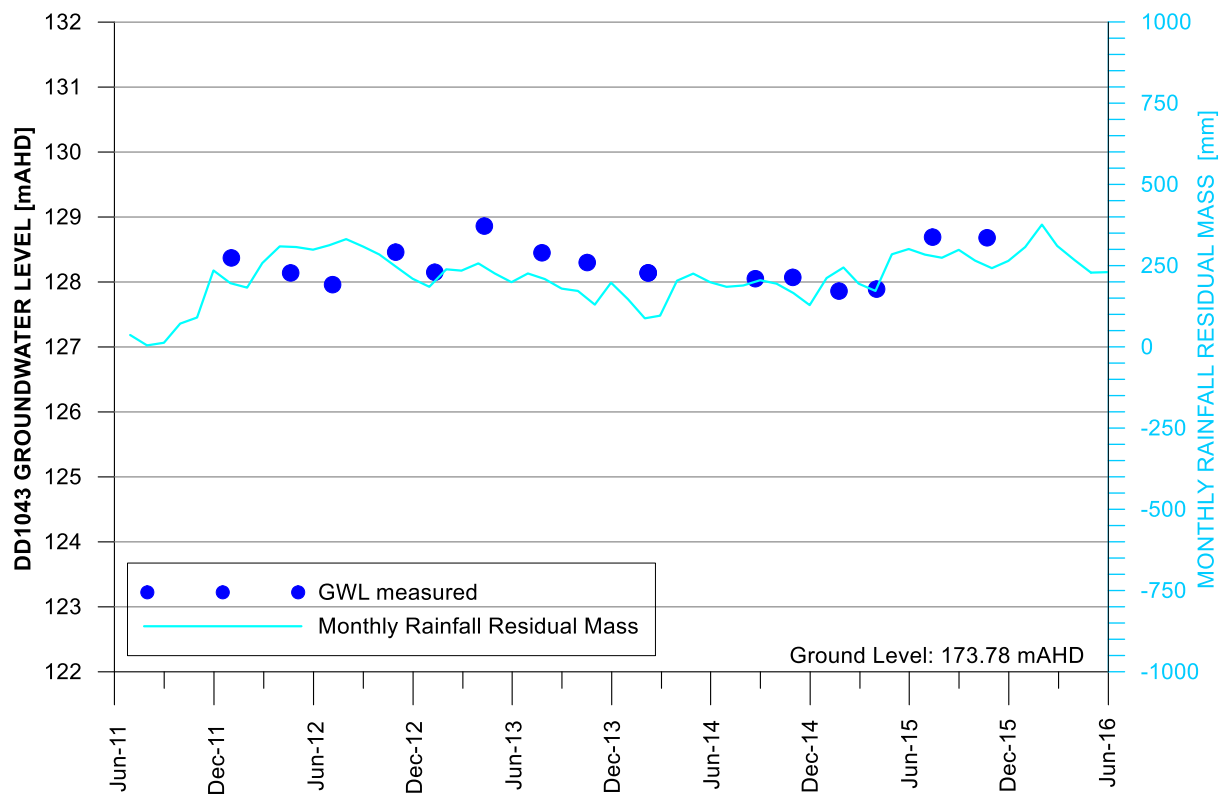
D 7 GW level and monthly rainfall residual mass, bore DD1025



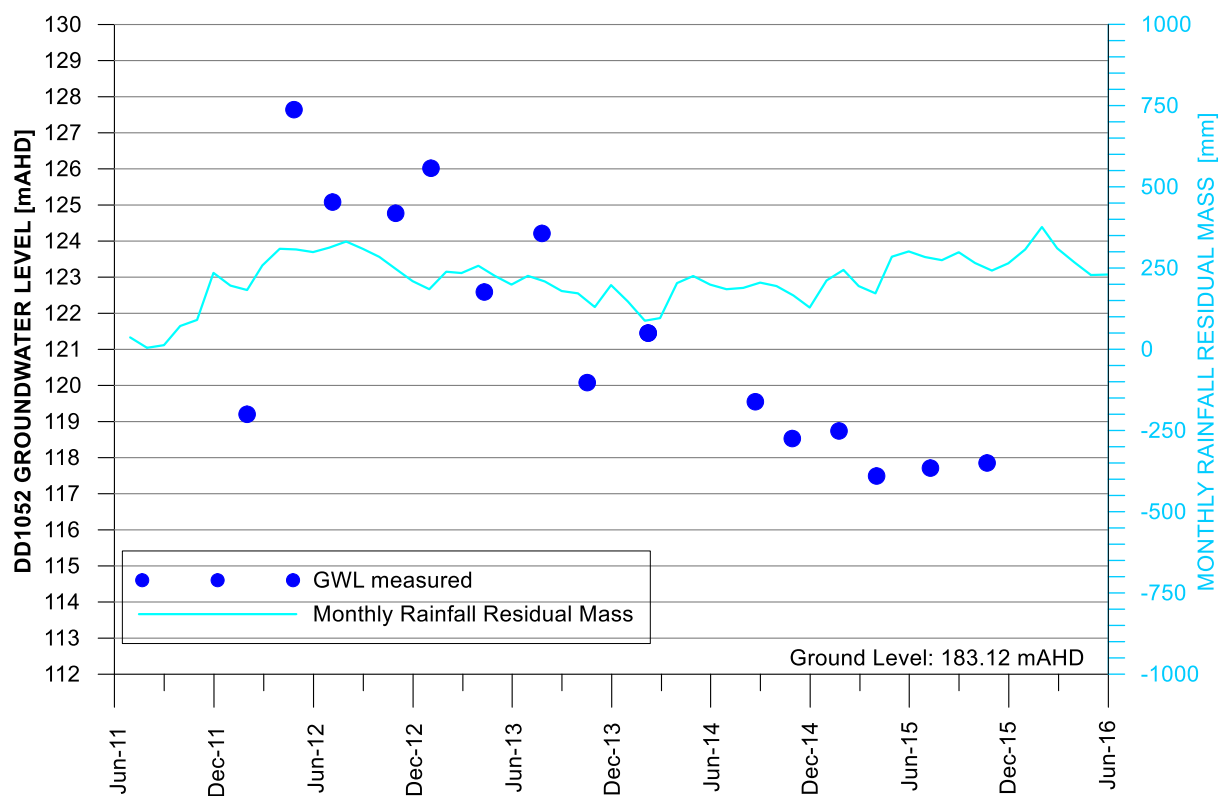
D 8 GW level and monthly rainfall residual mass, bore DD1030



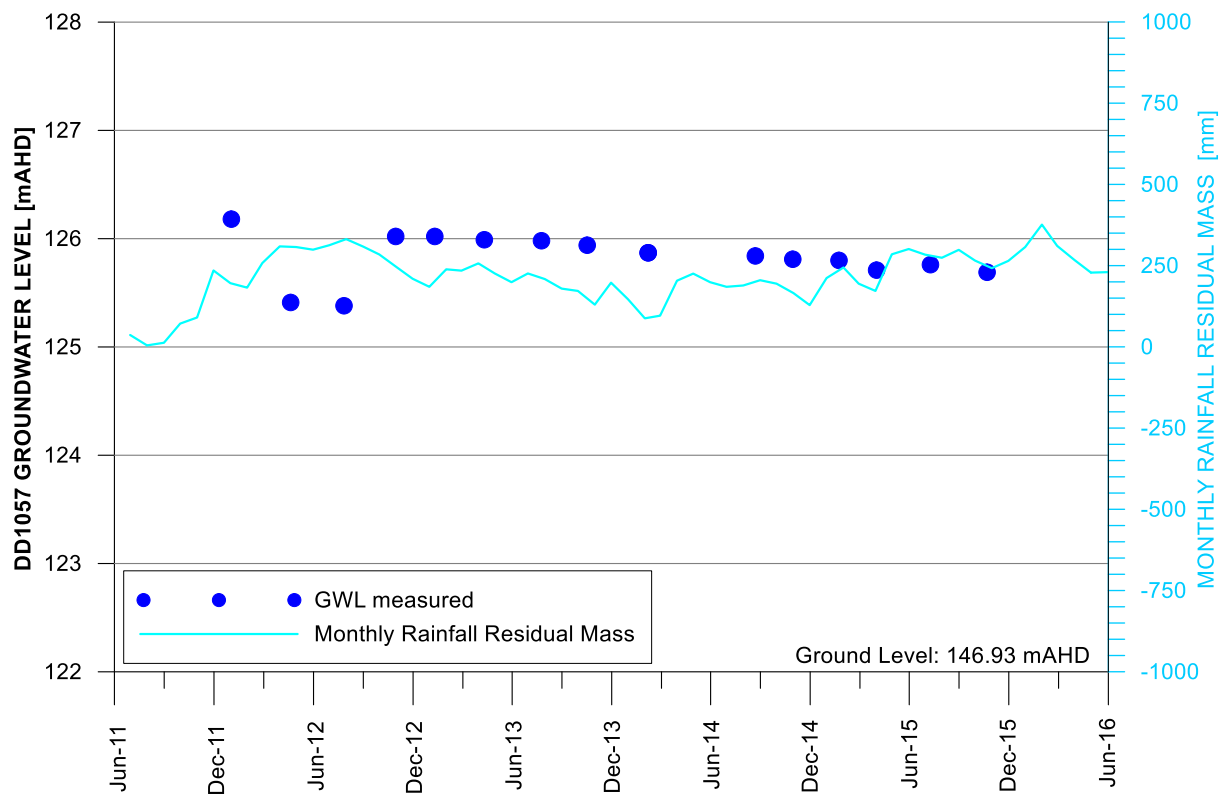
D 9 GW level and monthly rainfall residual mass, bore DD1032



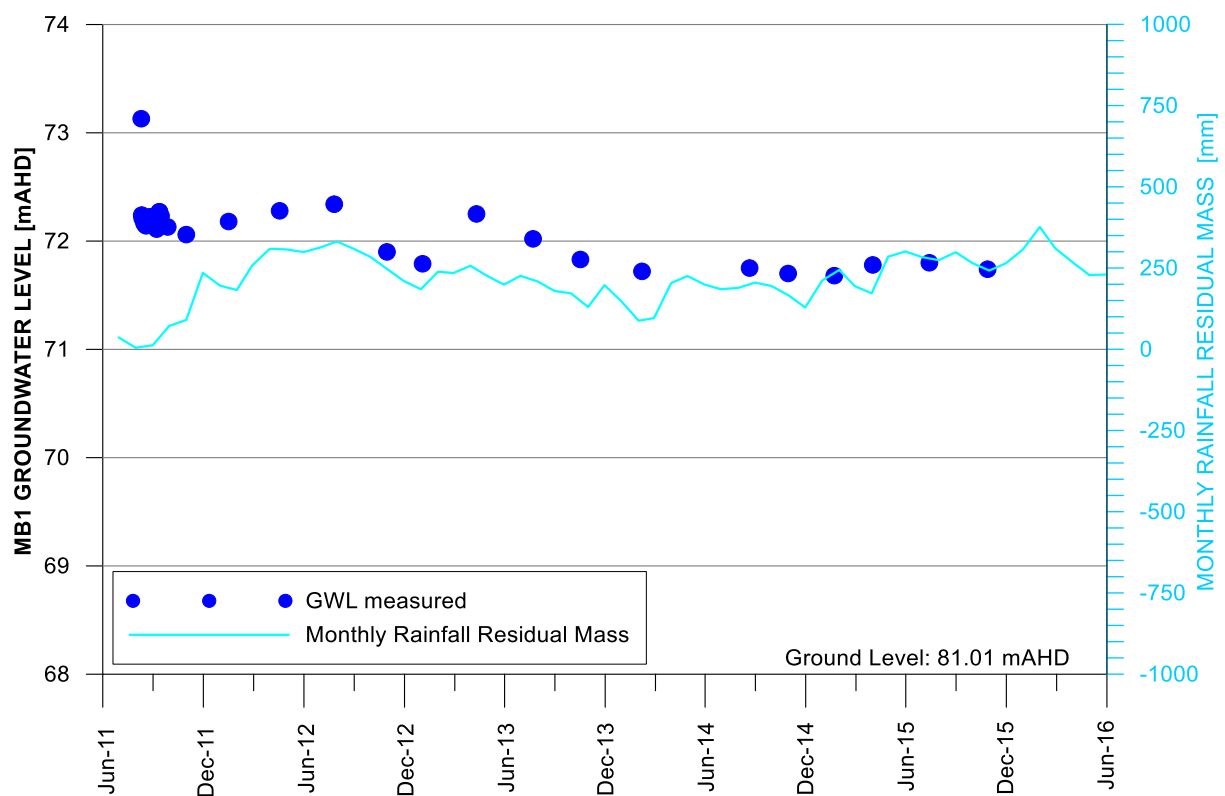
D 10 GW level and monthly rainfall residual mass, bore DD1043



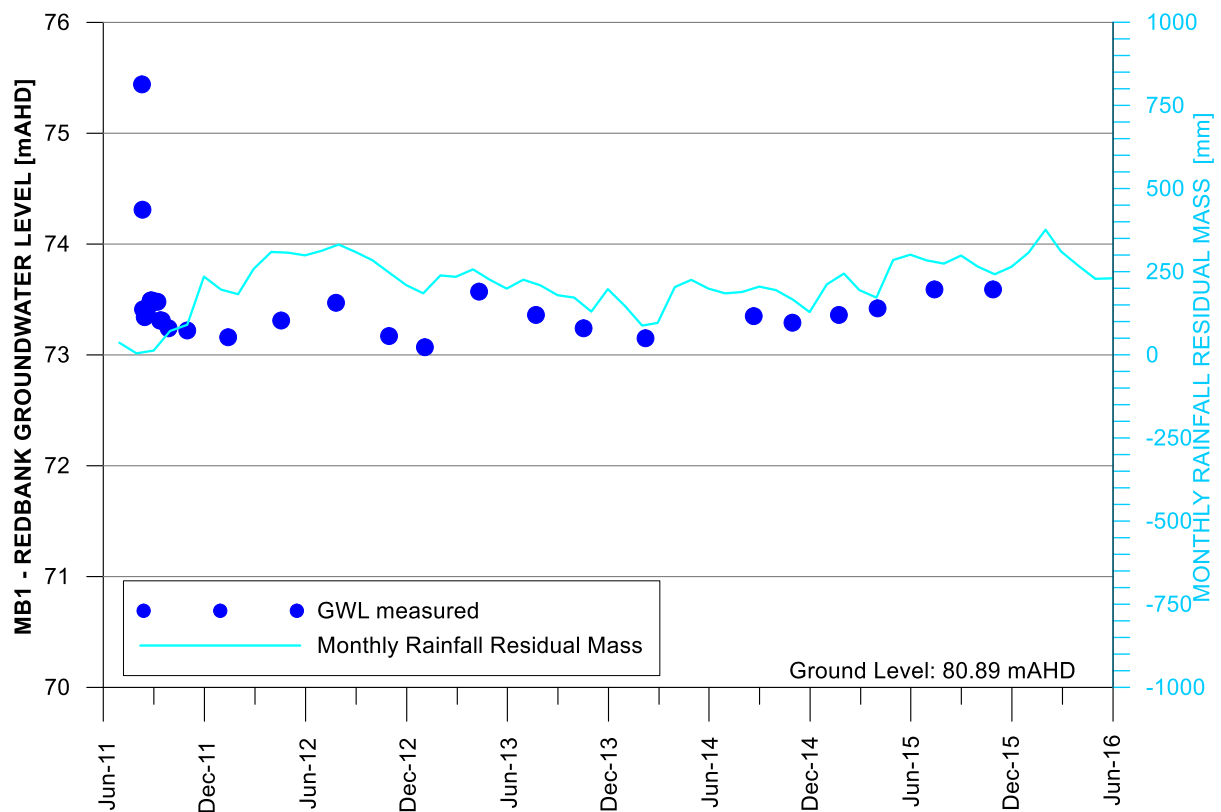
D 11 GW level and monthly rainfall residual mass, bore DD1052



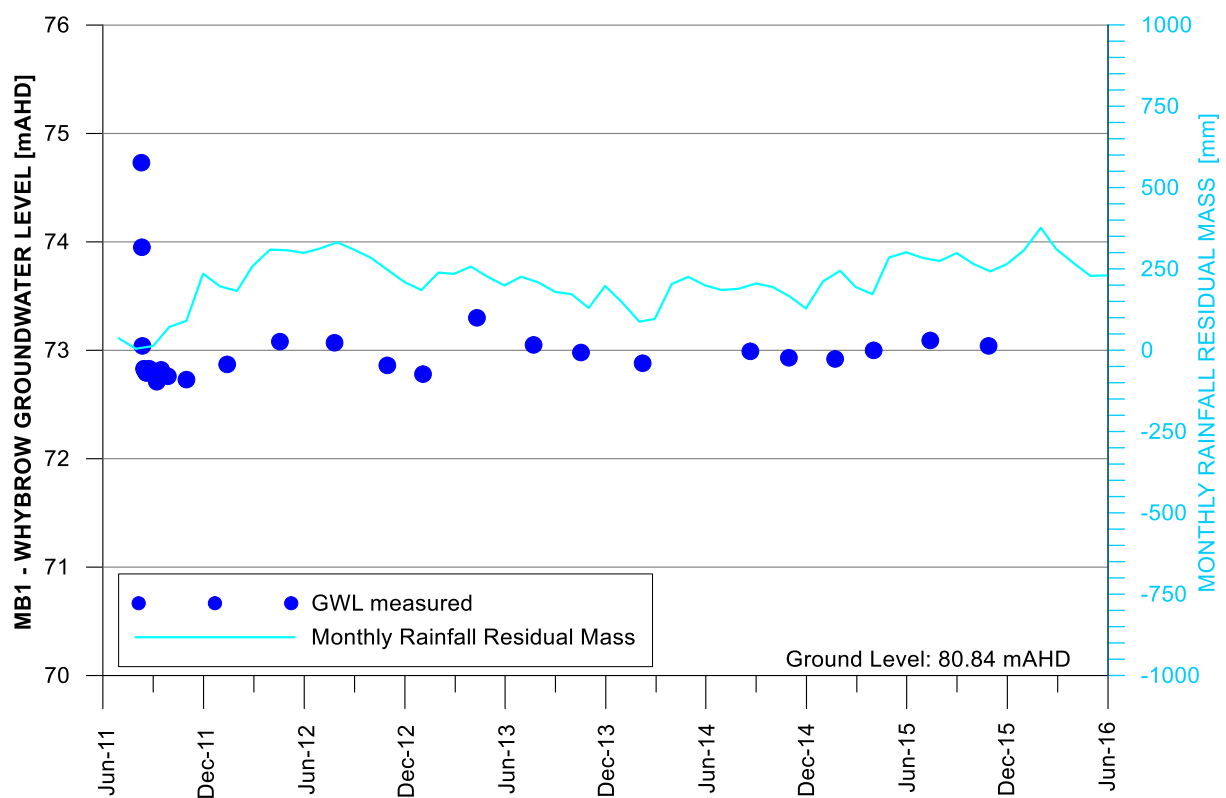
D 12 GW level and monthly rainfall residual mass, bore DD1057



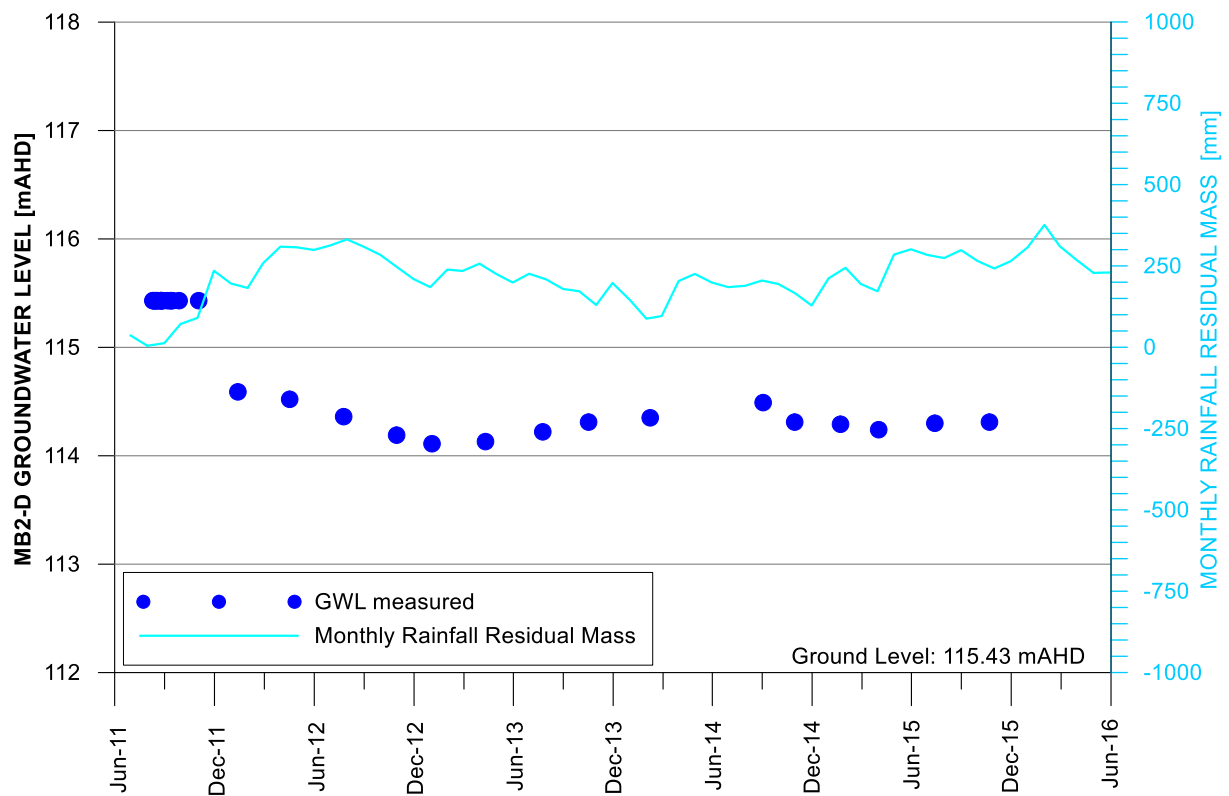
D 13 GW level and monthly rainfall residual mass, bore MB1 - ALLUVIAL



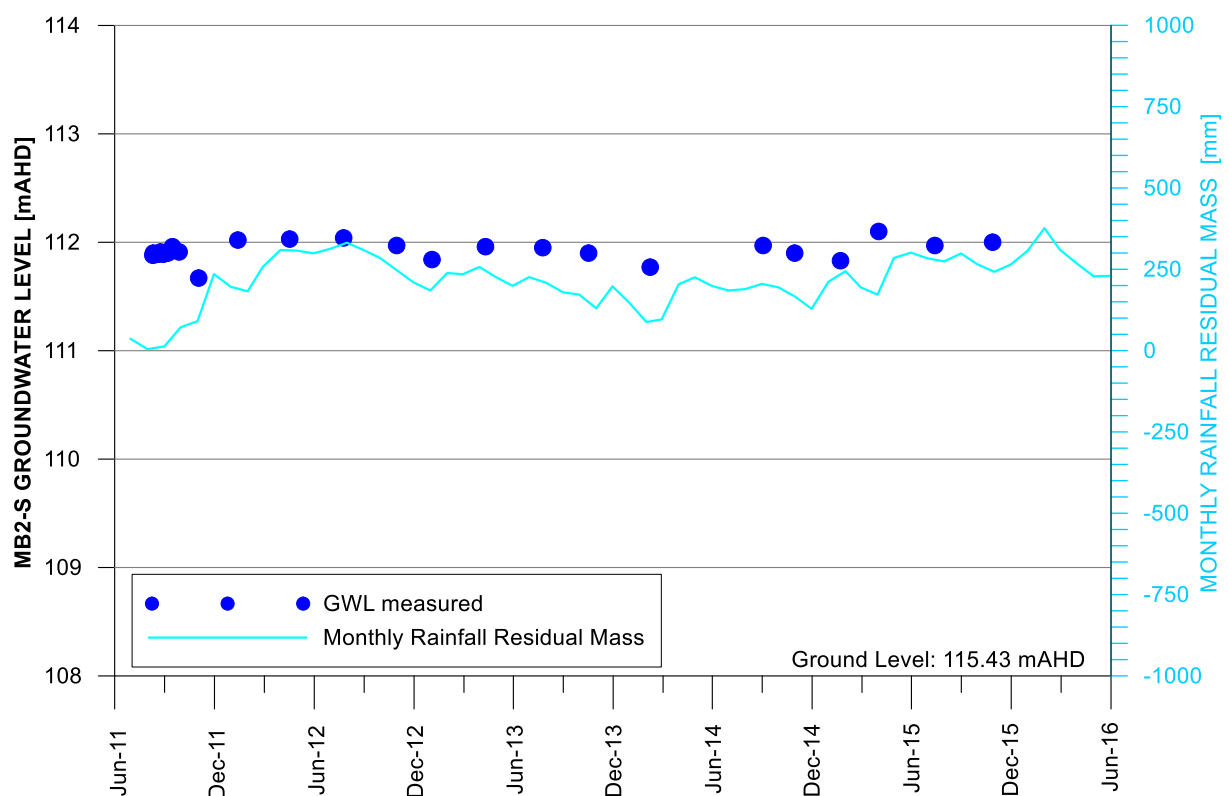
D 14 GW level and monthly rainfall residual mass, bore MB1 - REDBANK CREEK



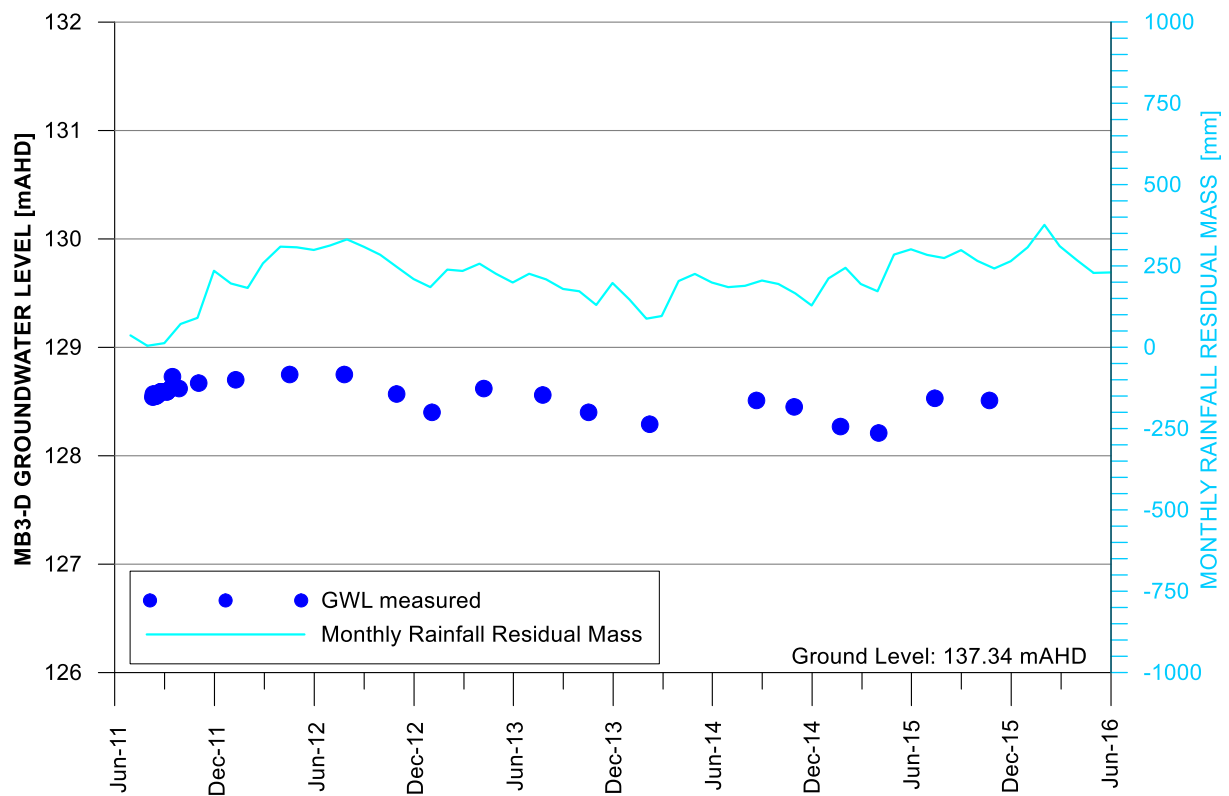
D 15 GW level and monthly rainfall residual mass, bore MB1 - WHYBROW



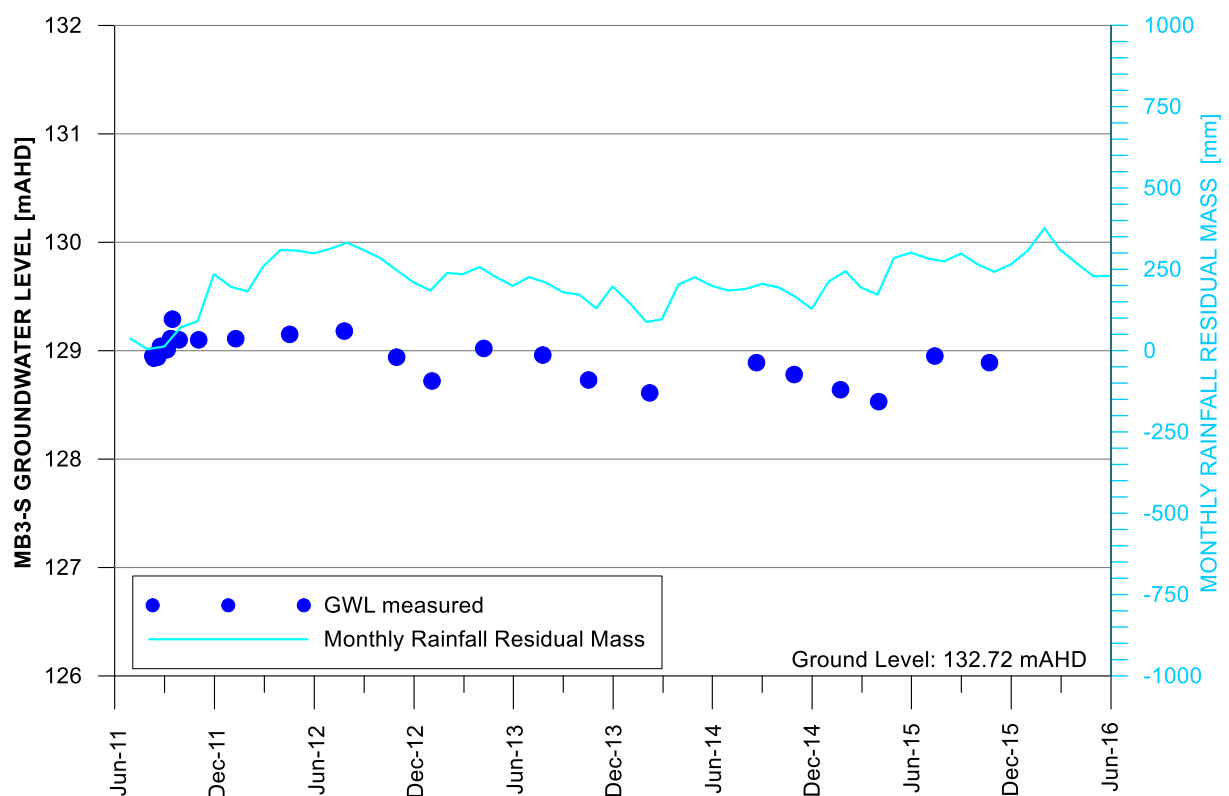
D 16 GW level and monthly rainfall residual mass, bore MB2-D (Regolith)



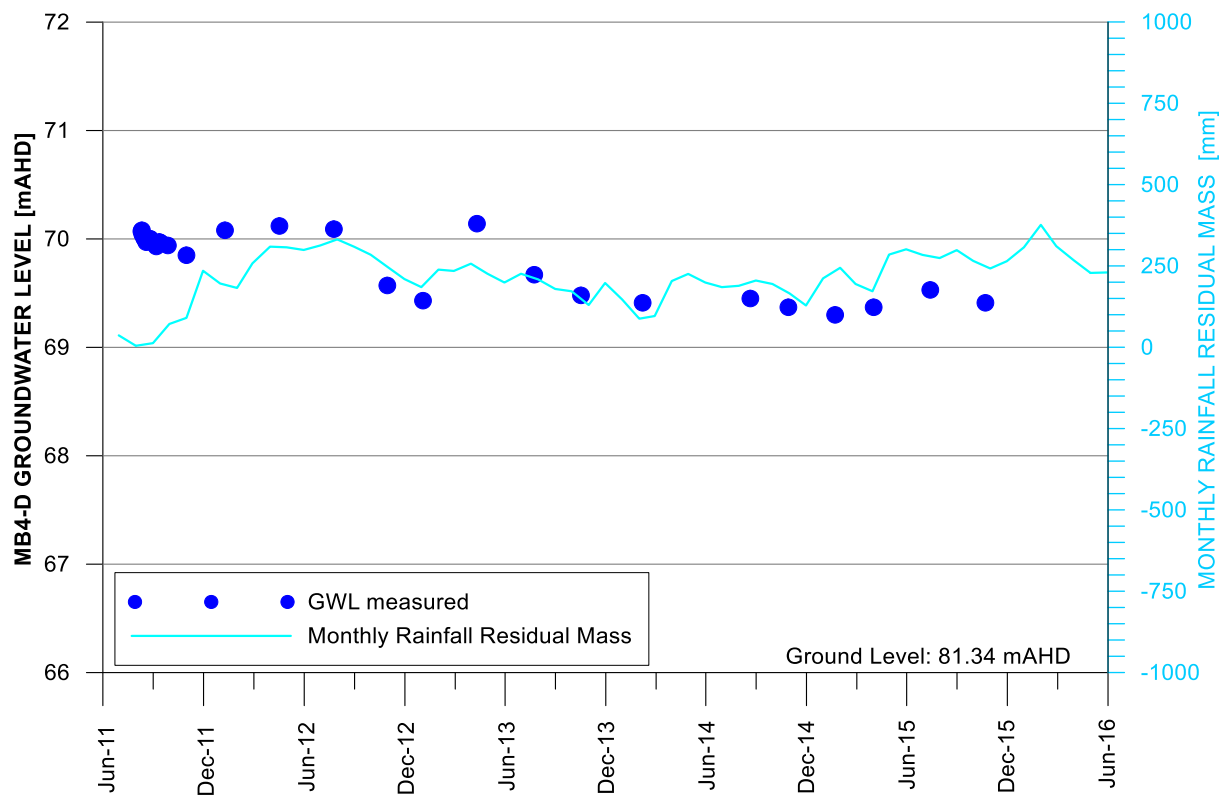
D 17 GW level and monthly rainfall residual mass, bore MB2-S (Alluvial)



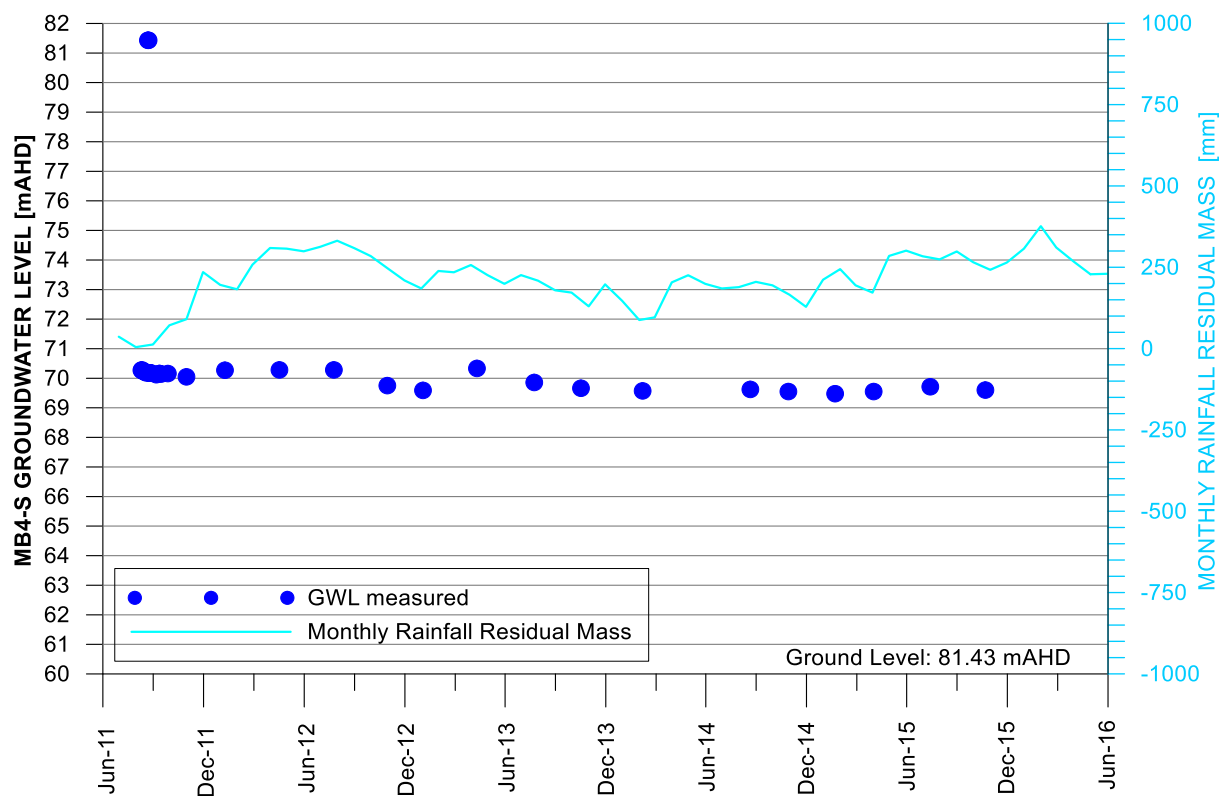
D 18 GW level and monthly rainfall residual mass, bore MB3-D (Regolith)



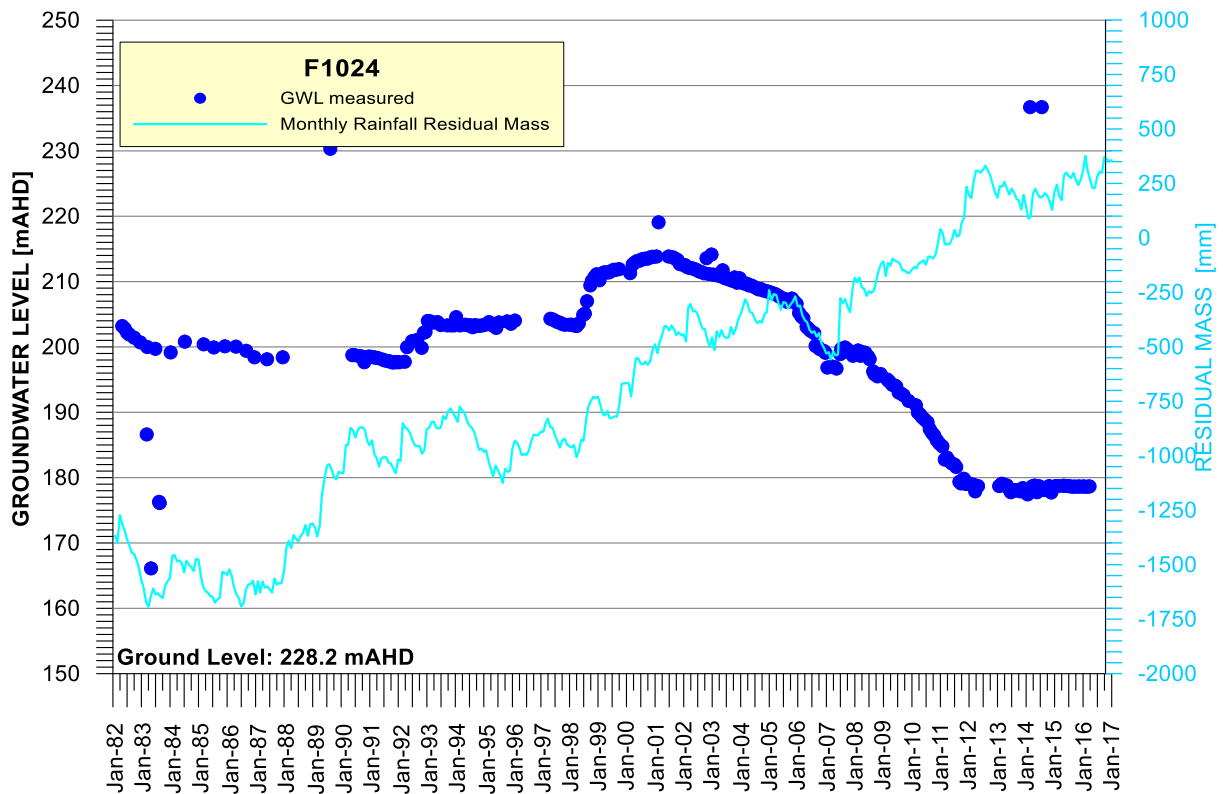
D 19 GW level and monthly rainfall residual mass, bore MB3-S (Alluvial)



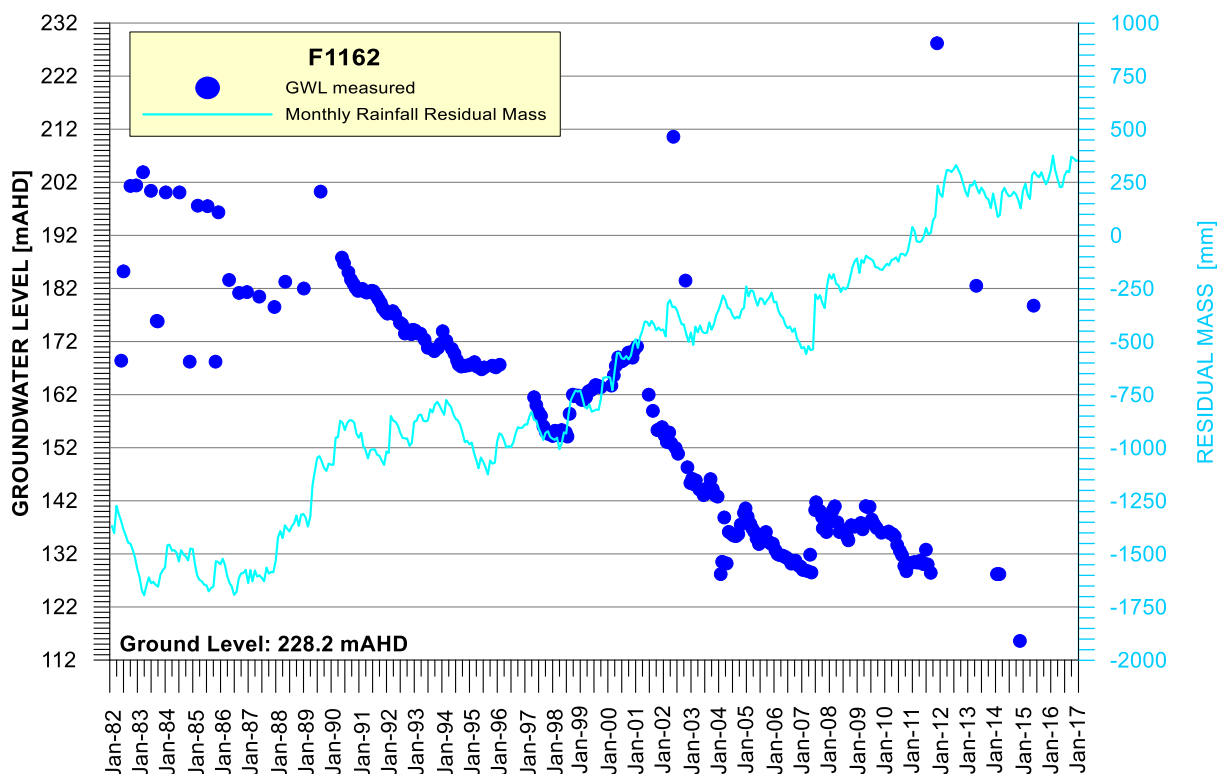
D 20 GW level and monthly rainfall residual mass, bore MB4-D (Regolith)



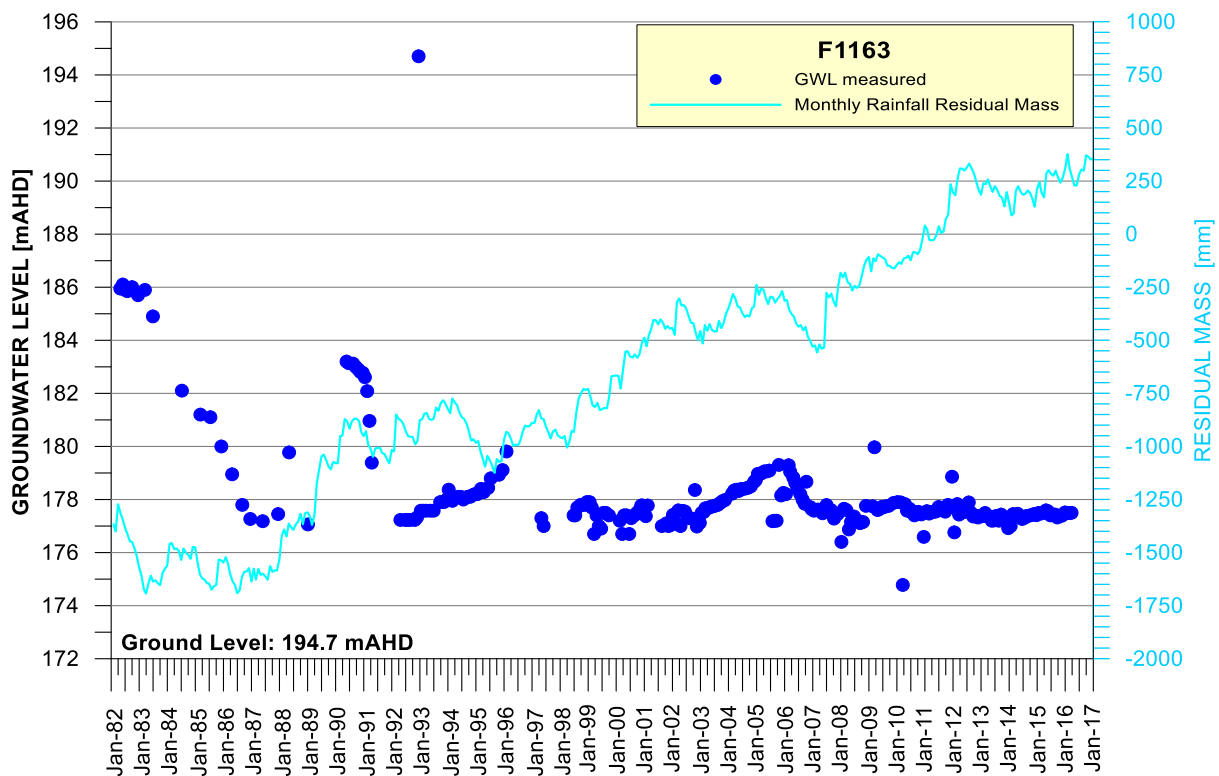
D 21 GW level and monthly rainfall residual mass, bore MB4-S (Alluvial)



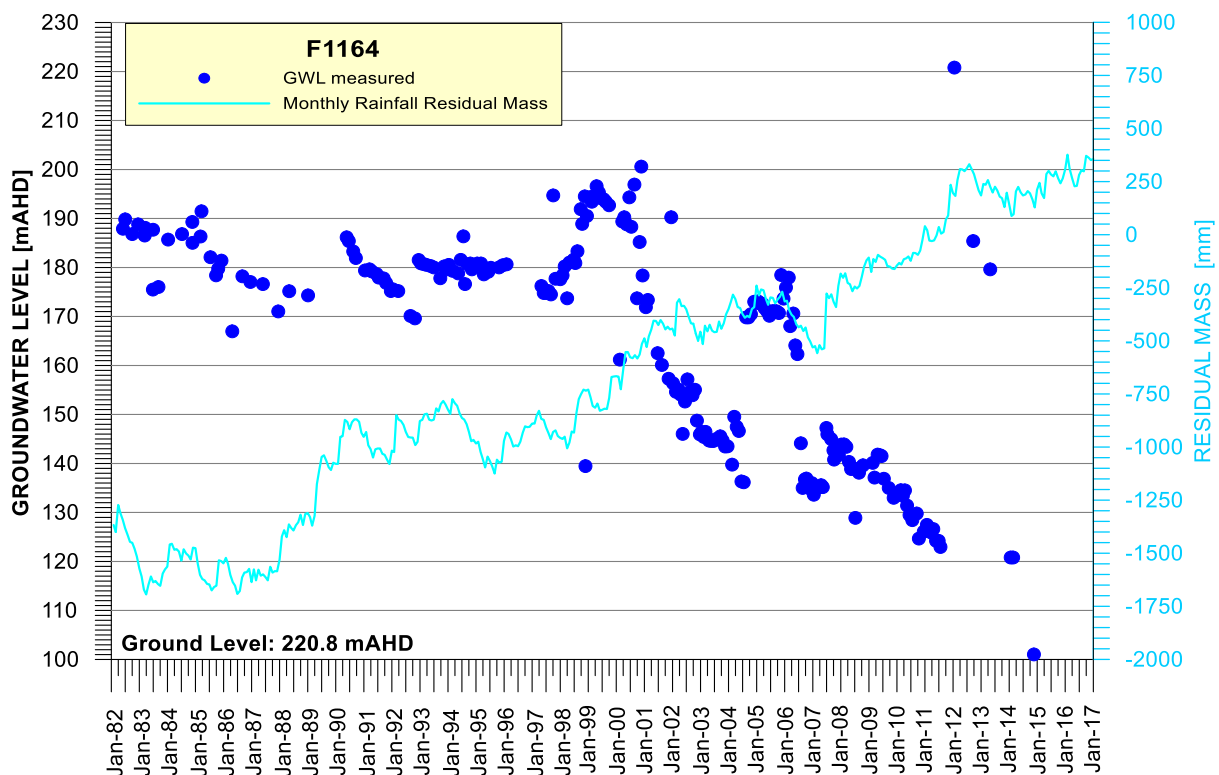
D 22 GW level and monthly rainfall residual mass, bore F1024



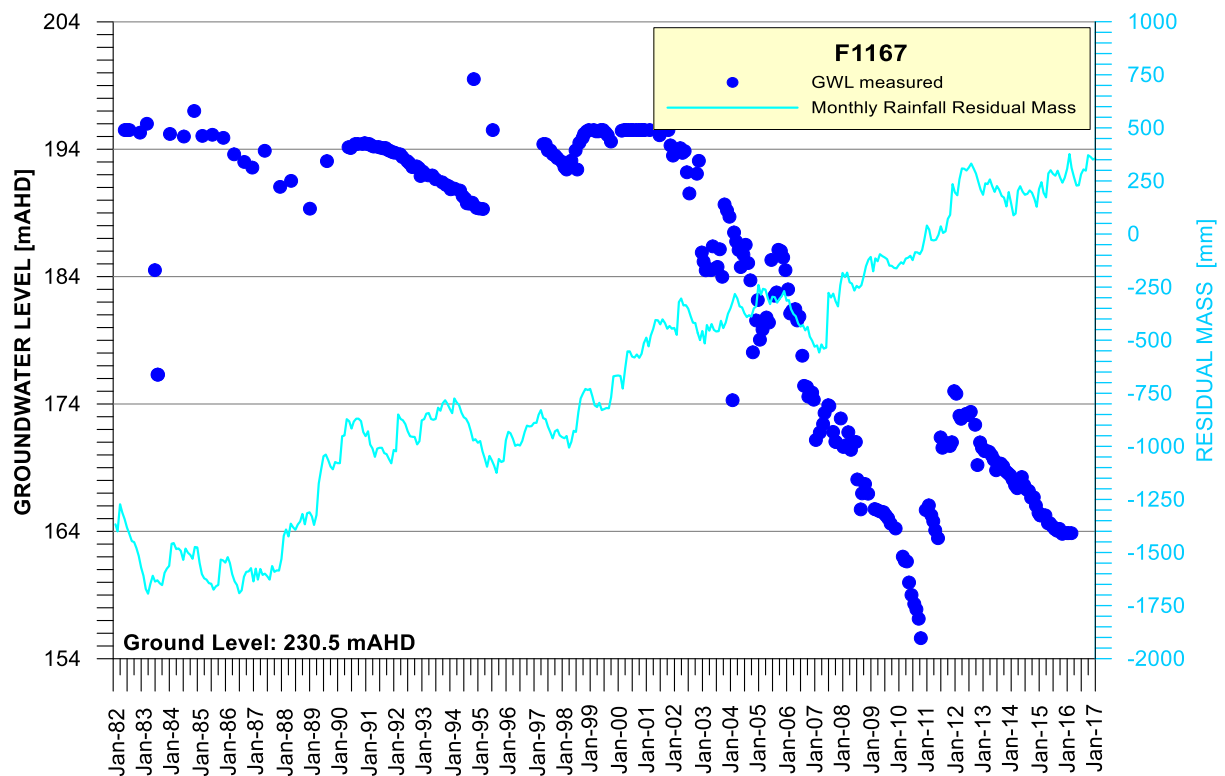
D 23 GW level and monthly rainfall residual mass, bore F1162



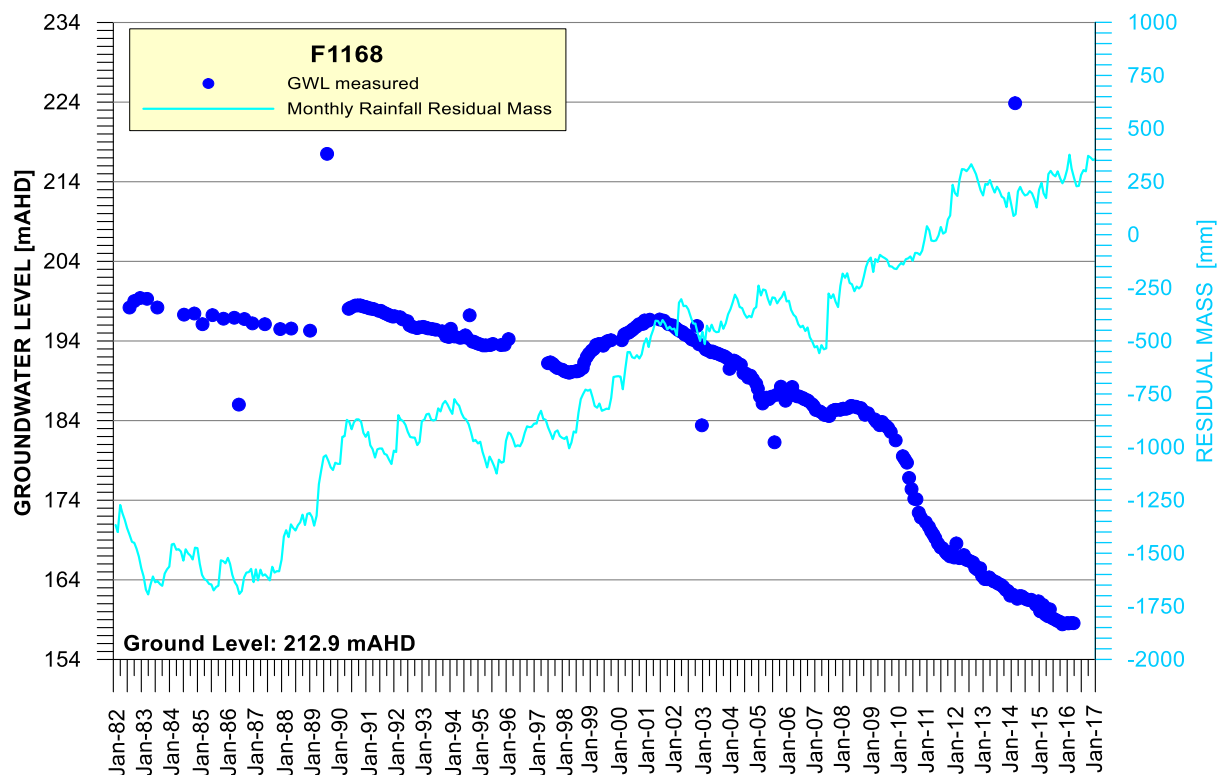
D 24 GW level and monthly rainfall residual mass, bore F1163



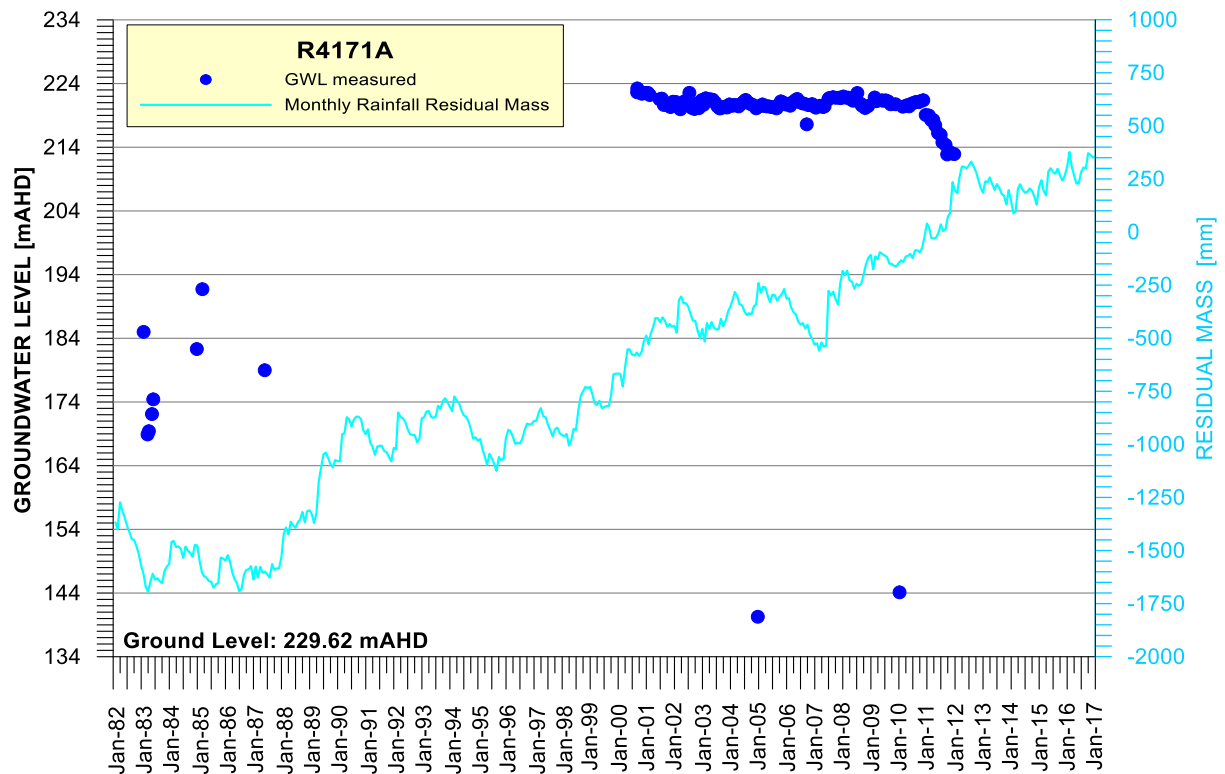
D 25 GW level and monthly rainfall residual mass, bore F1164



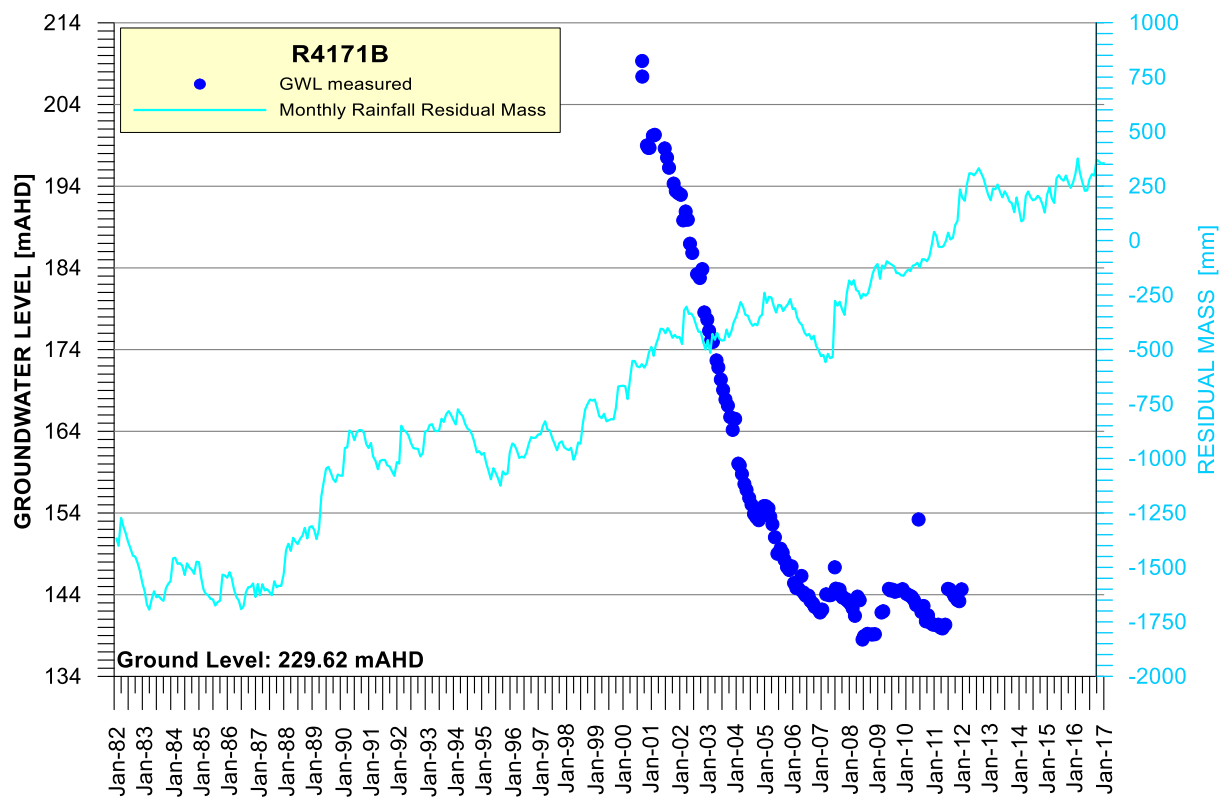
D 26 GW level and monthly rainfall residual mass, bore F1167



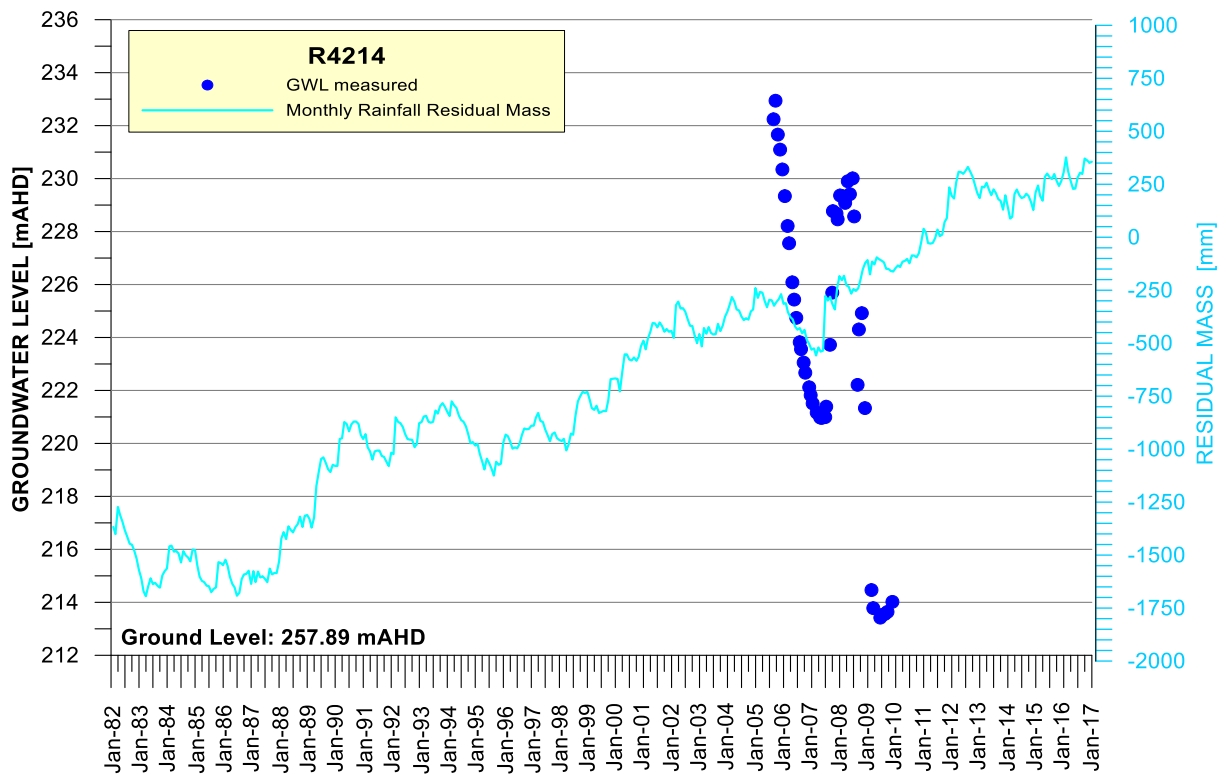
D 27 GW level and monthly rainfall residual mass, bore F1168



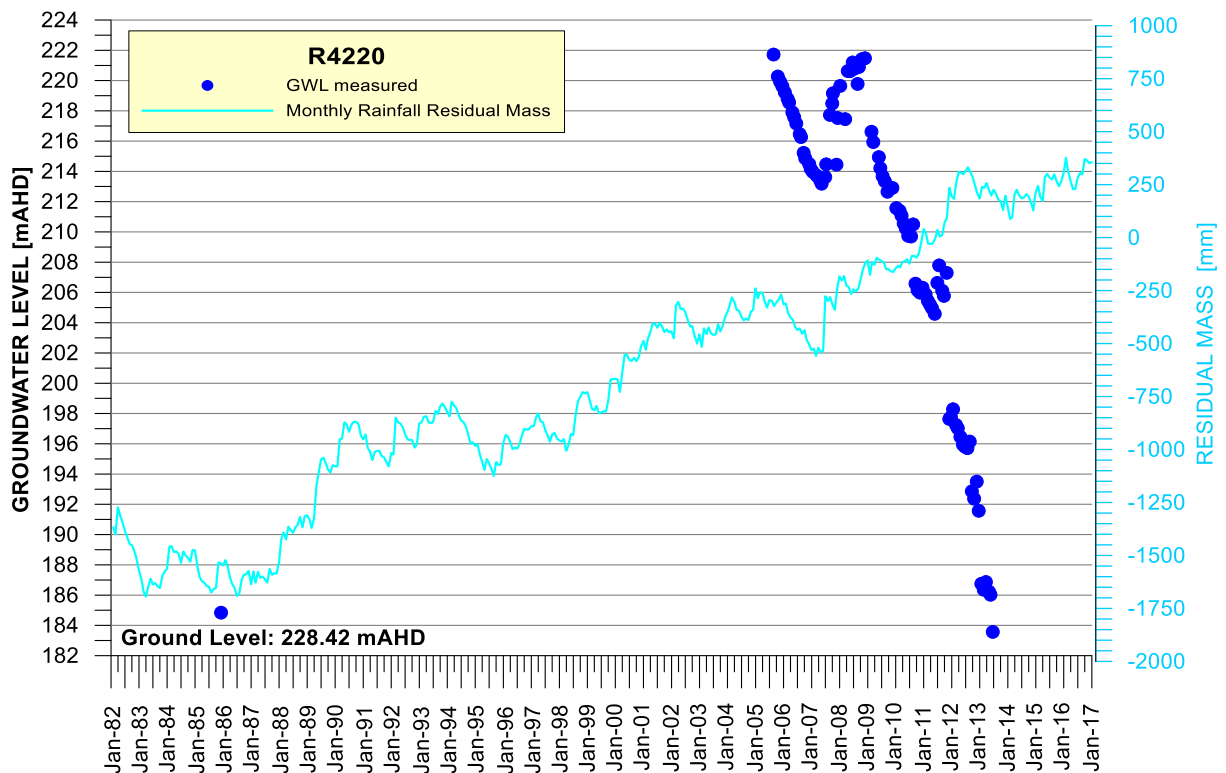
D 28 GW level and monthly rainfall residual mass, bore R4171A



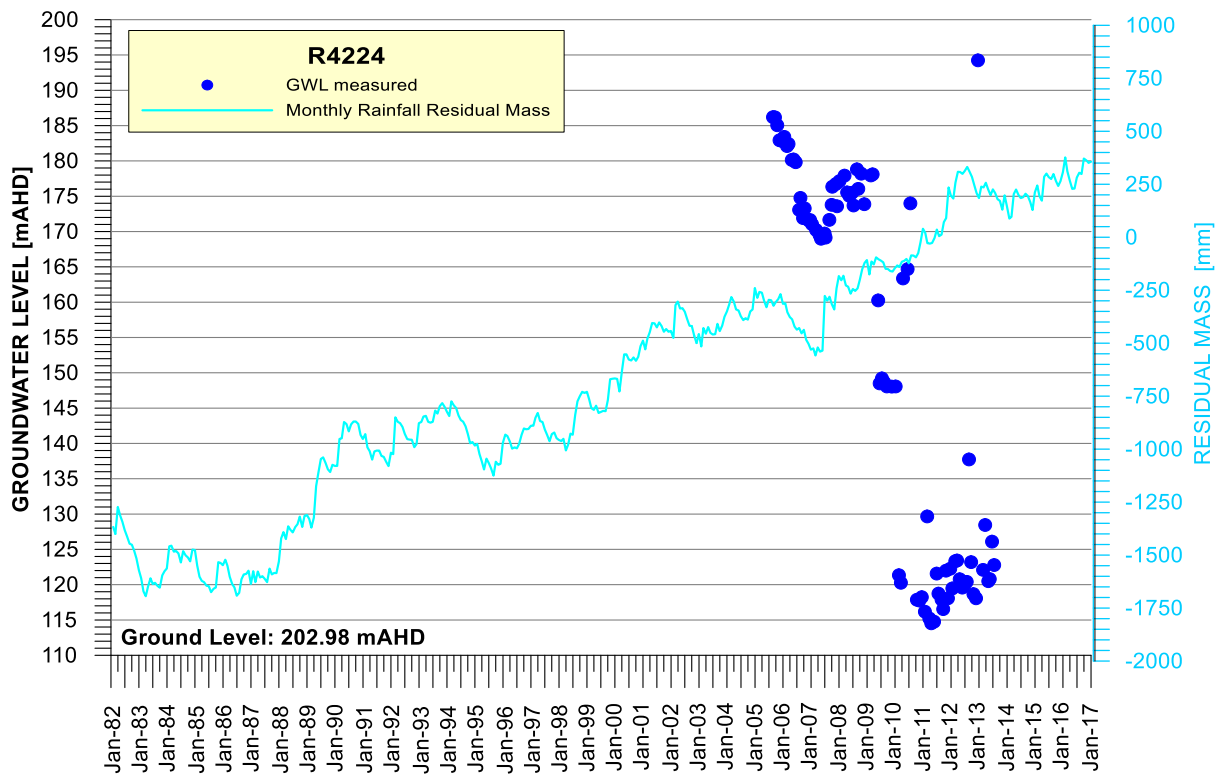
D 29 GW level and monthly rainfall residual mass, bore R4171B



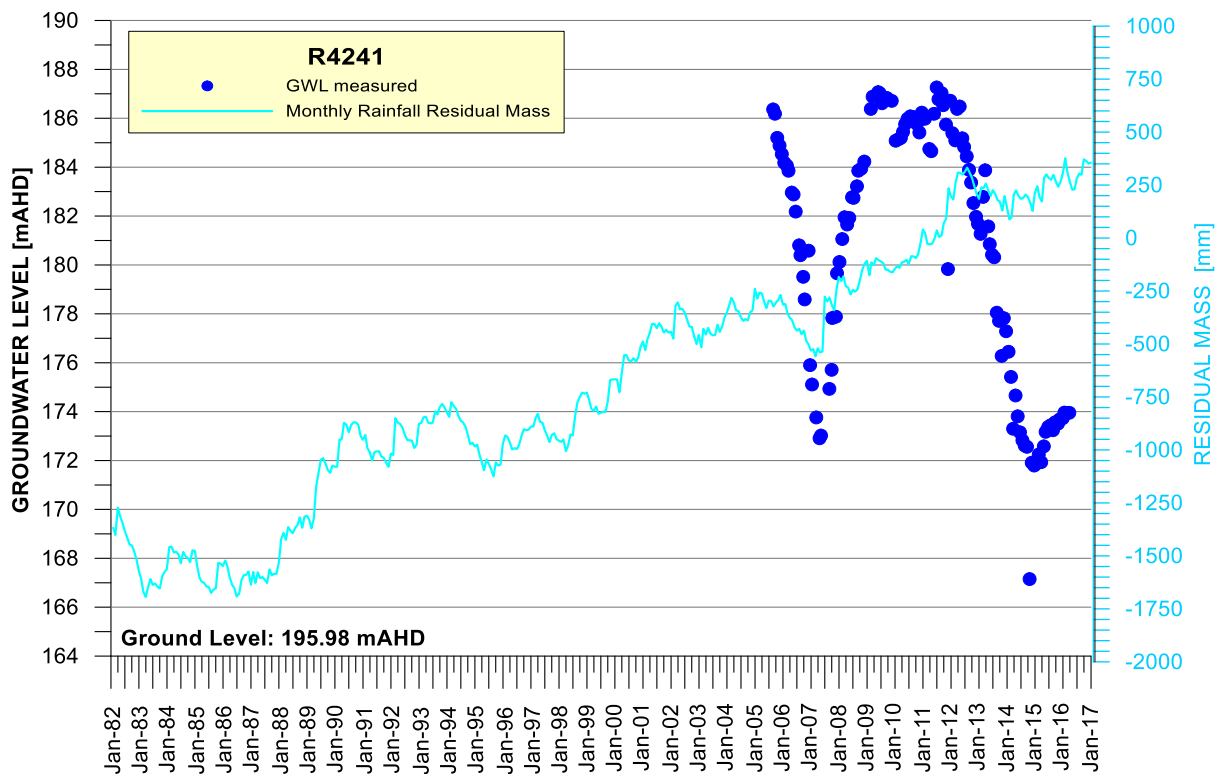
D 30 GW level and monthly rainfall residual mass, bore R4214



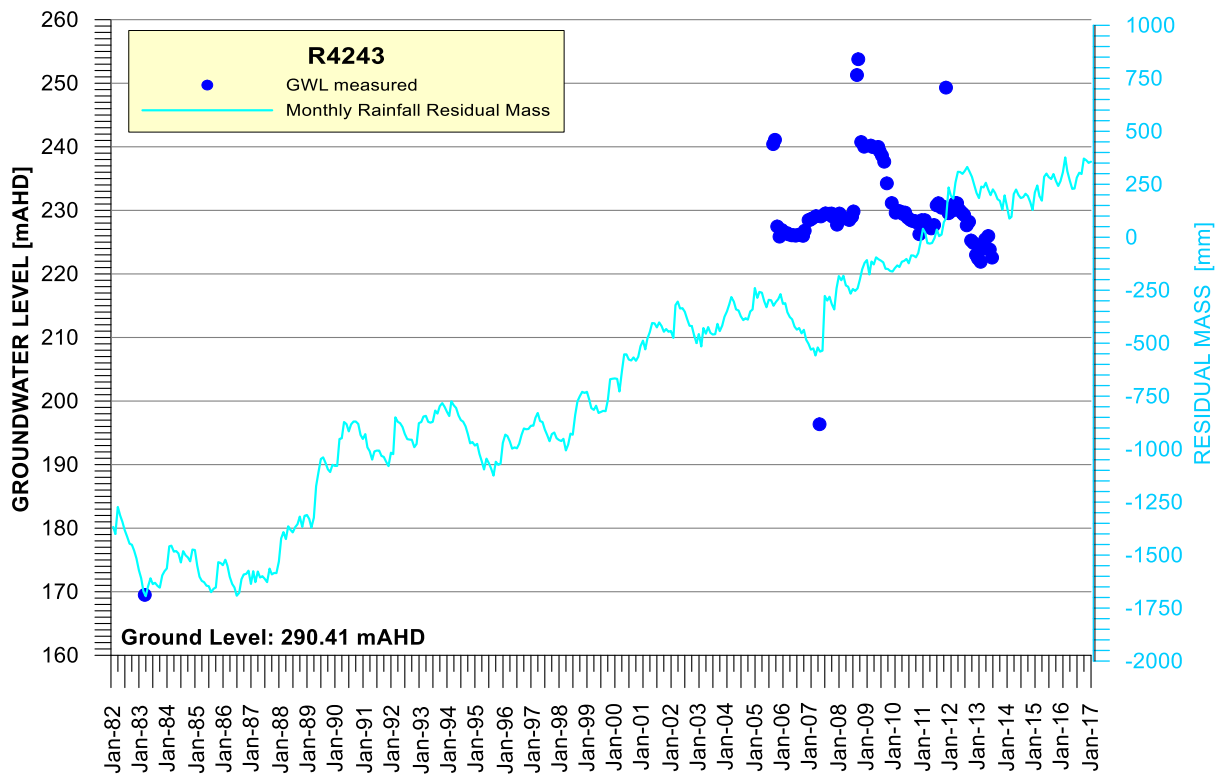
D 31 GW level and monthly rainfall residual mass, bore R4220



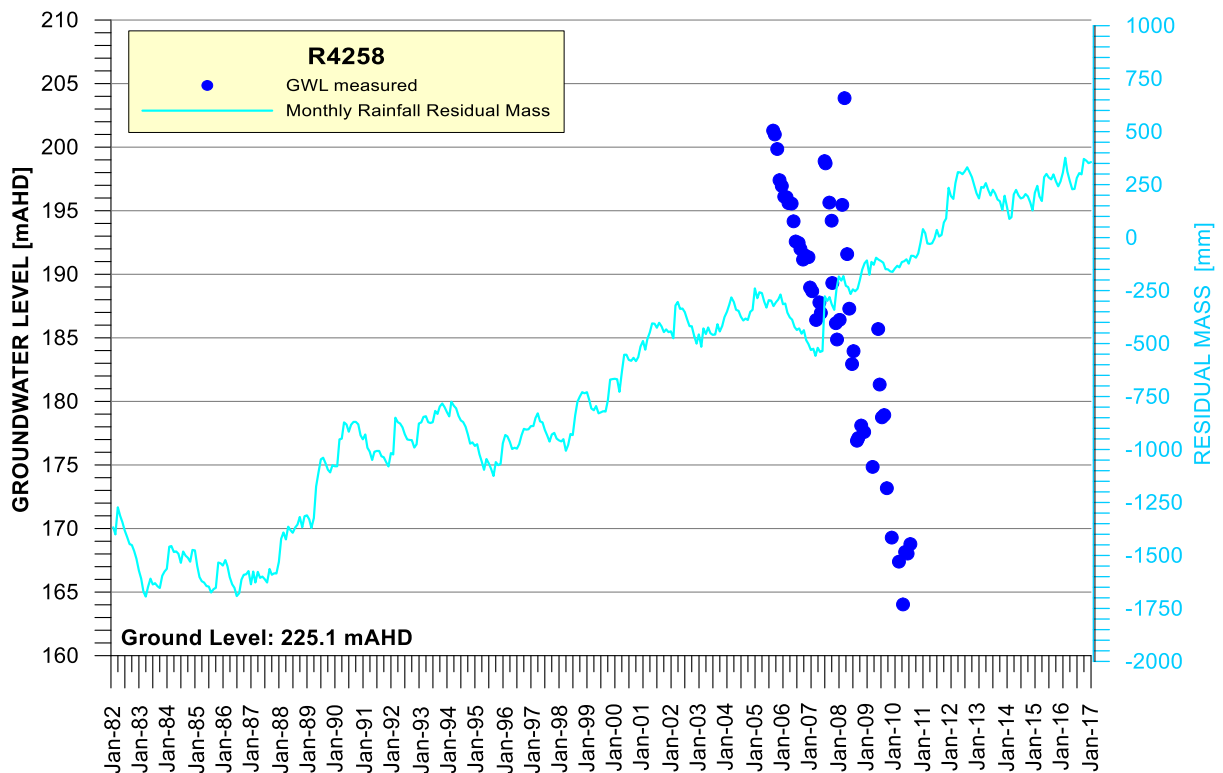
D 32 GW level and monthly rainfall residual mass, bore R4224



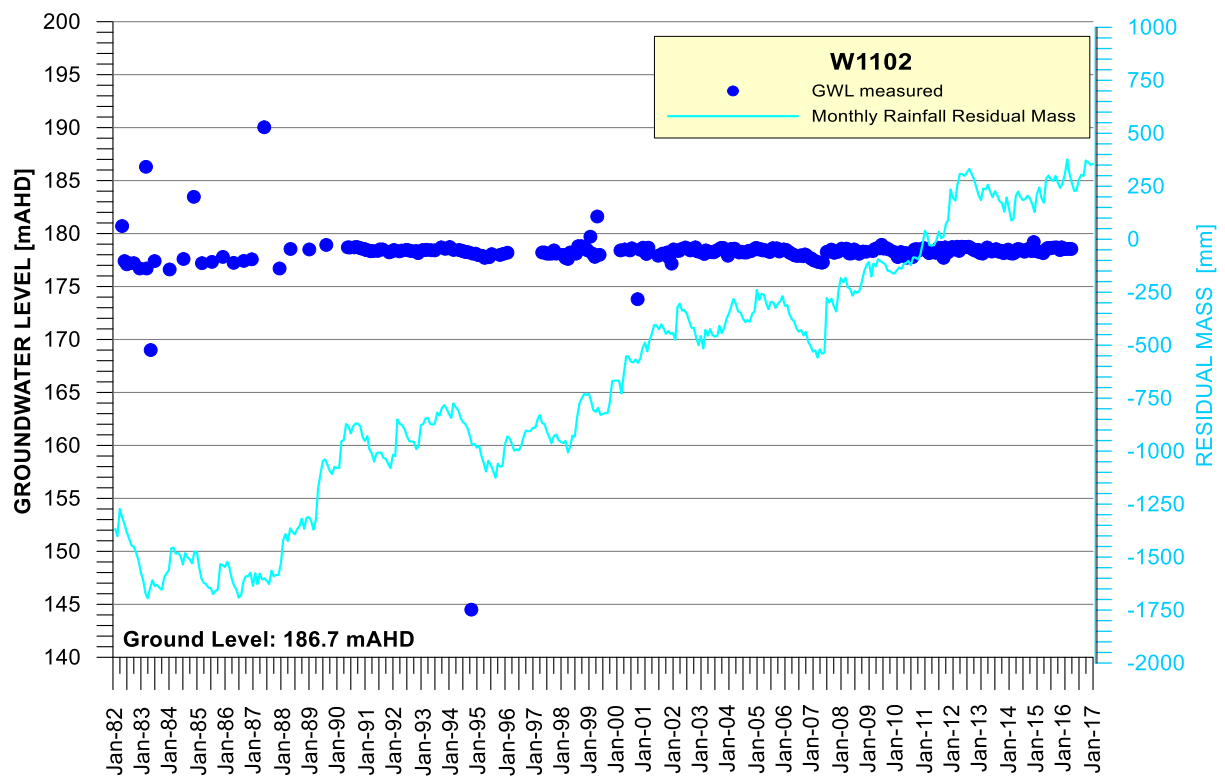
D 33 GW level and monthly rainfall residual mass, bore R4241



D 34 GW level and monthly rainfall residual mass, bore R4243



D 35 GW level and monthly rainfall residual mass, bore R4258

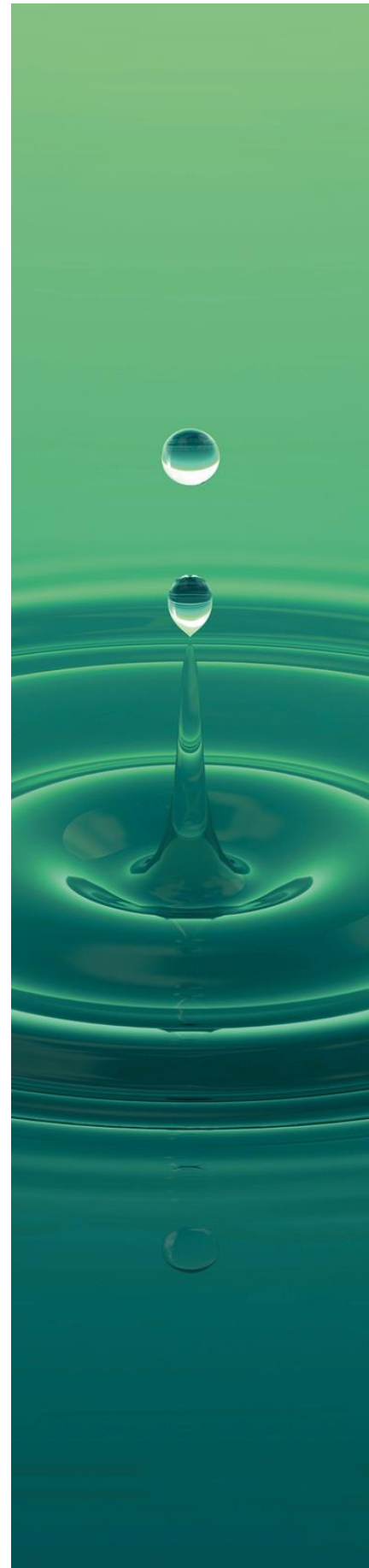


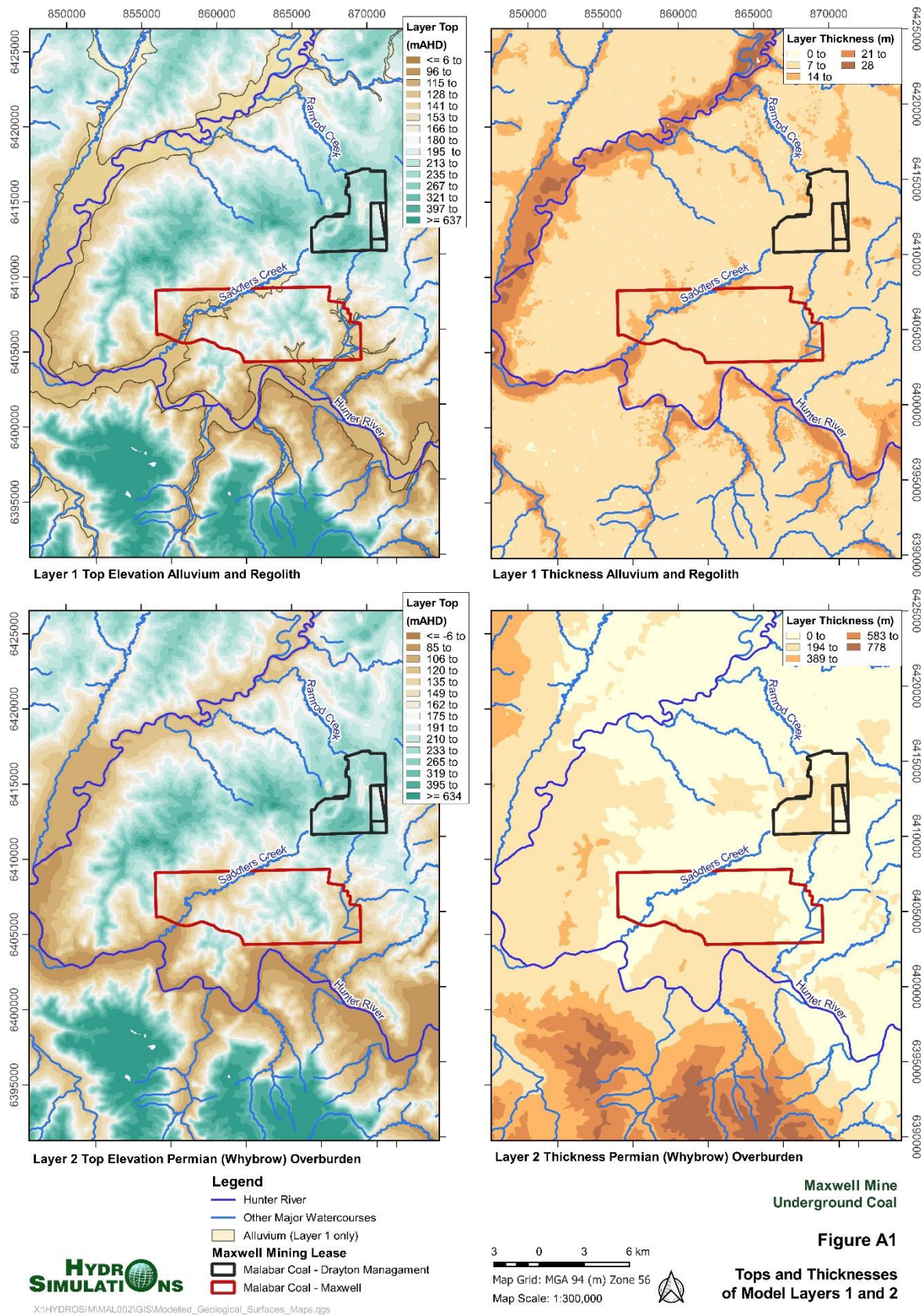
D 36 GW level and monthly rainfall residual mass, bore W1102

APPENDIX E

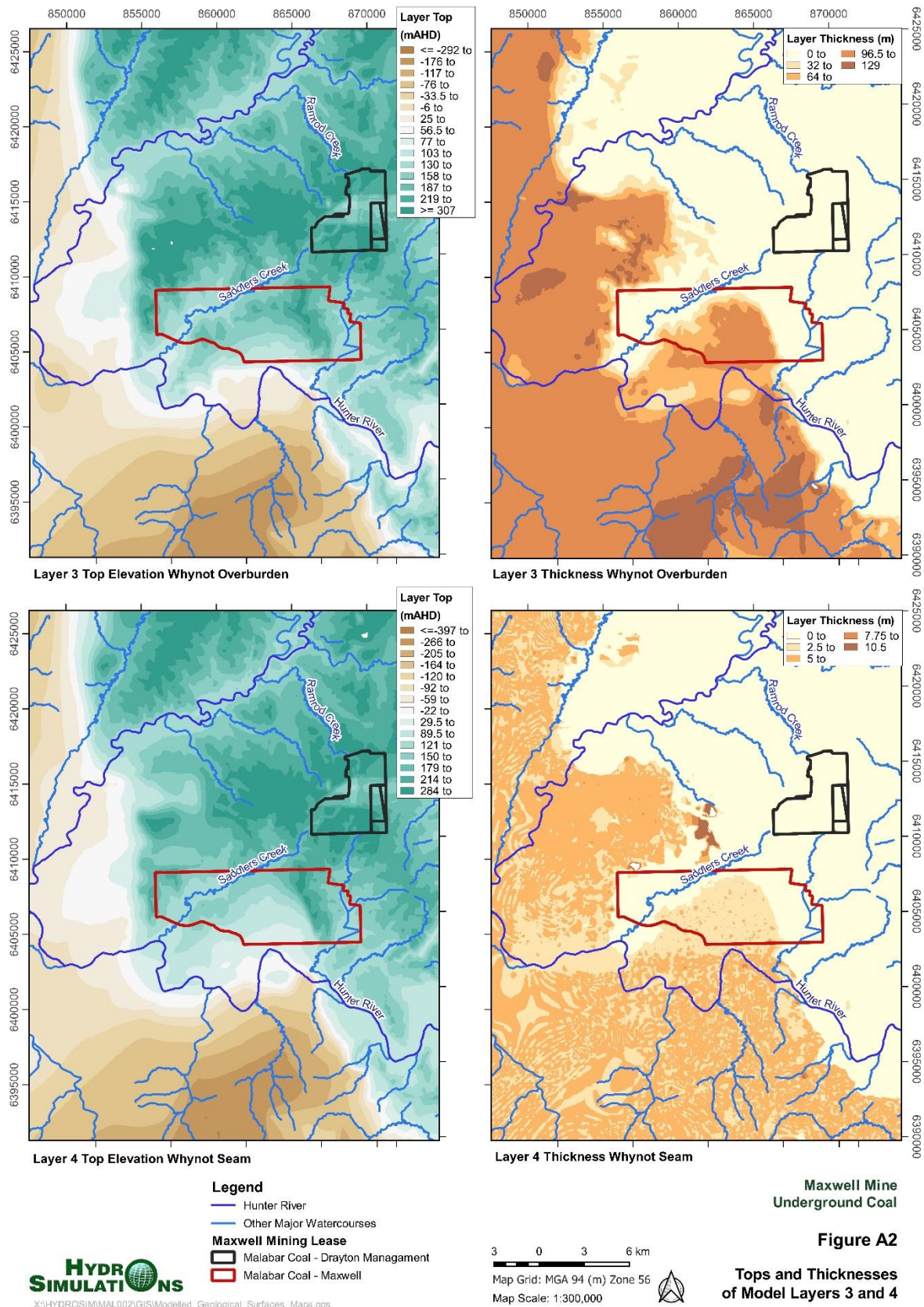
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E 1 Layer 1 and 2, top elevation and thickness



E 2 Layer 3 and 4, top elevation and thickness