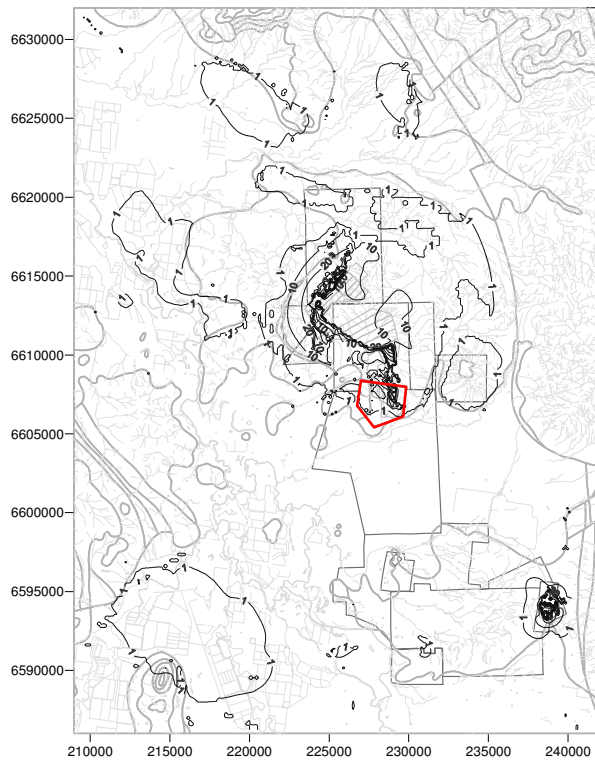
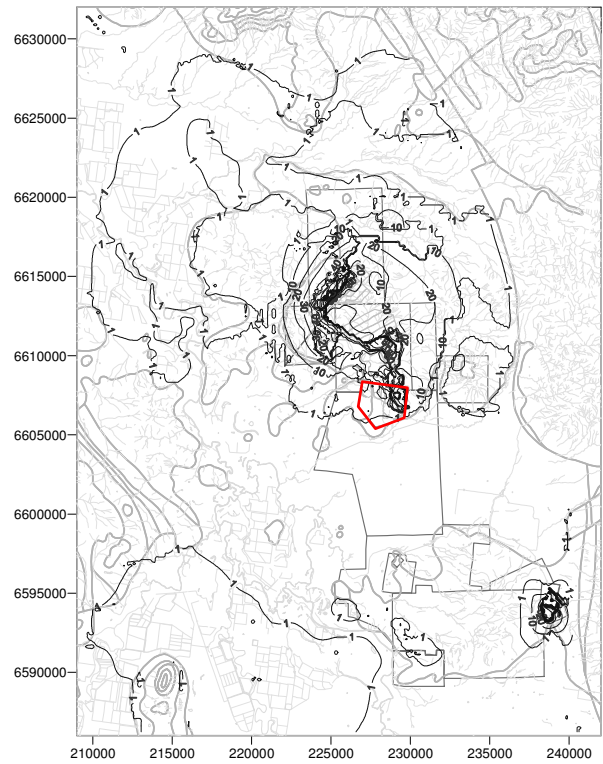
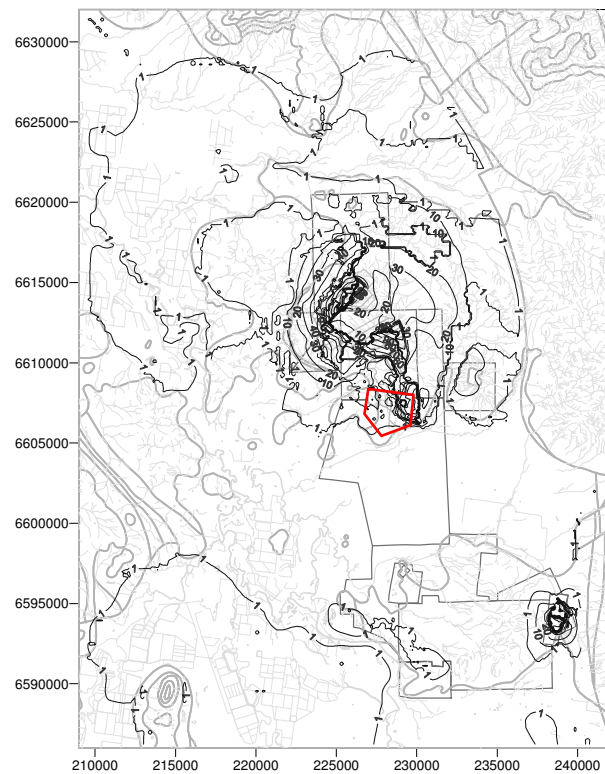




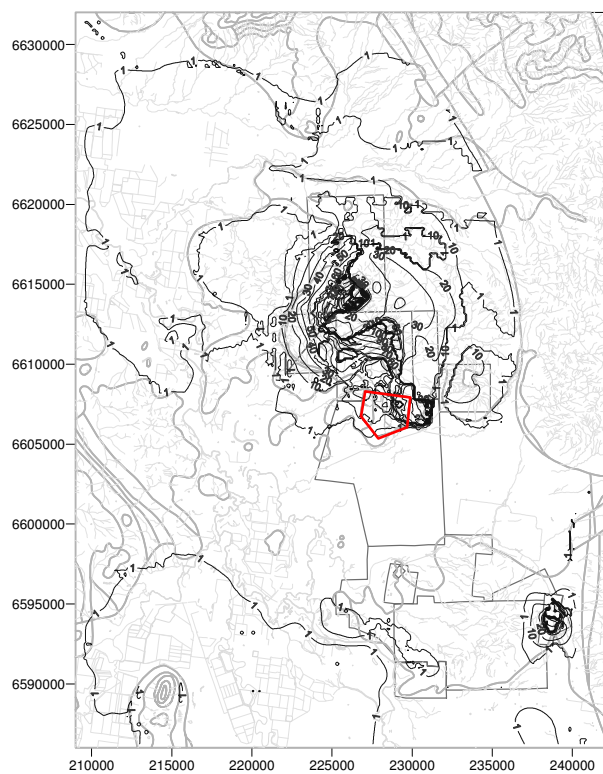
Year 5 – Layer 1 [Alluvium/Regolith] – Cumulative



Year 10 – Layer 1 [Alluvium/Regolith] – Cumulative

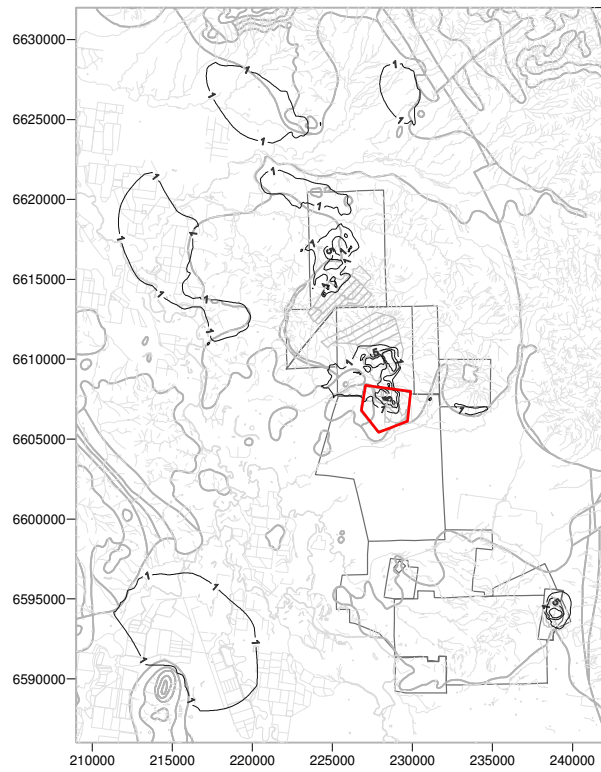


Year 15 – Layer 1 [Alluvium/Regolith] – Cumulative

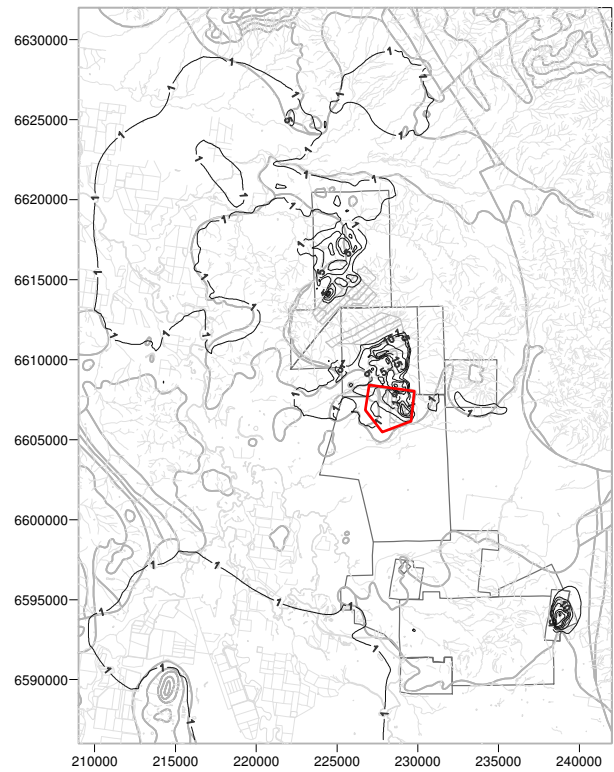


Year 19 – Layer 1 [Alluvium/Regolith] – Cumulative

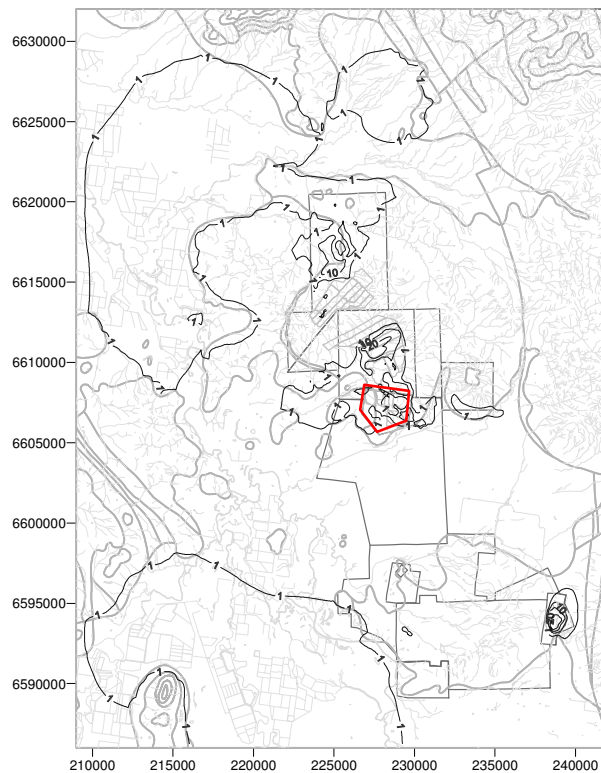
Figure AC-6 Drawdown Contour Maps [Alluvium/Regolith – Layer 1] – Model Years 5, 10, 15, 19 [Cumulative]



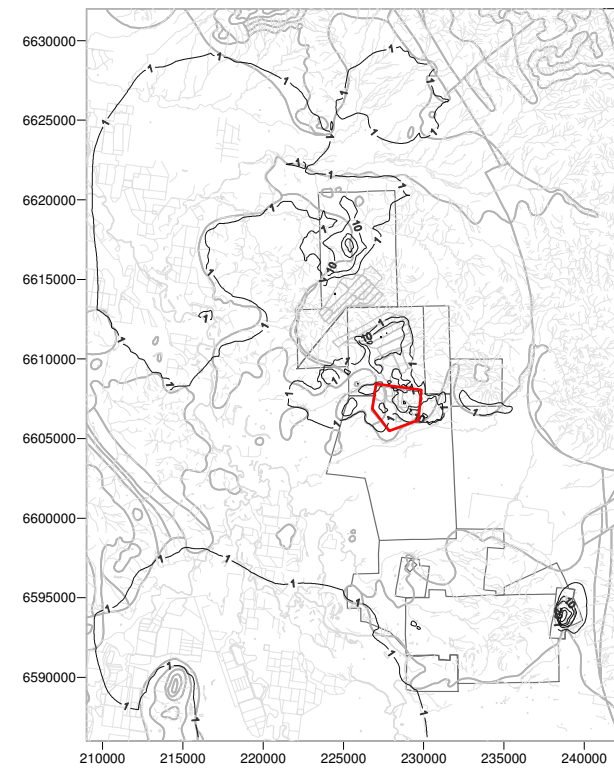
Year 5 – Layer 2 [Alluvium/Overburden] – Cumulative



Year 10 – Layer 2 [Alluvium/Overburden] – Cumulative

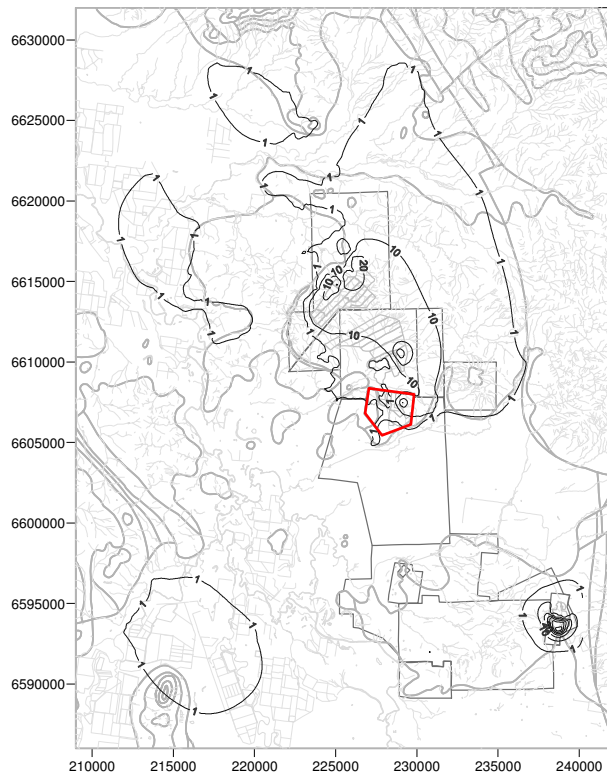


Year 15 – Layer 2 [Alluvium/Overburden] – Cumulative

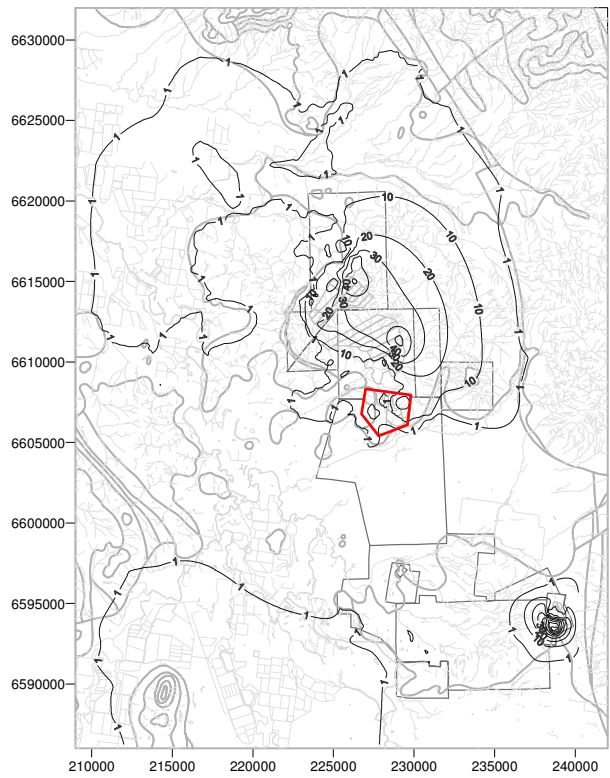


Year 19 – Layer 2 [Alluvium/Overburden] – Cumulative

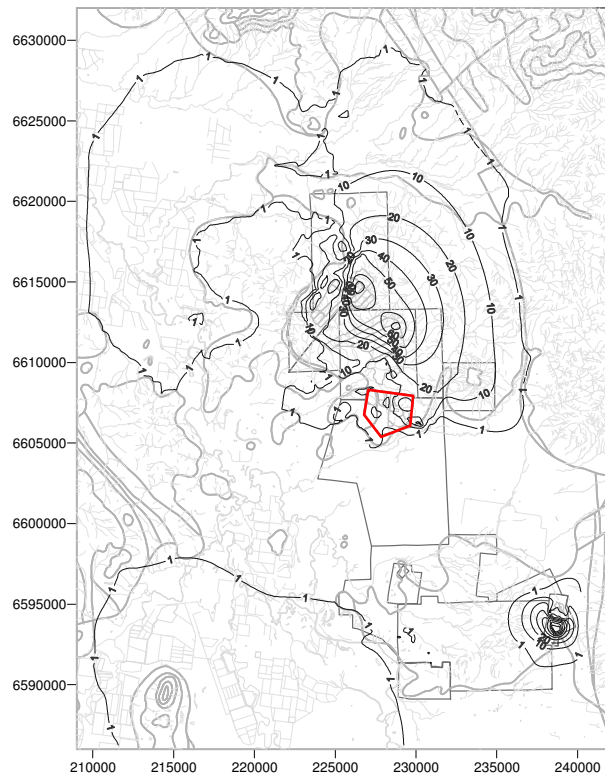
Figure AC-7 Drawdown Contour Maps [Alluvium/Regolith – Layer 2] – Model Years 5, 10, 15, 19 [Cumulative]



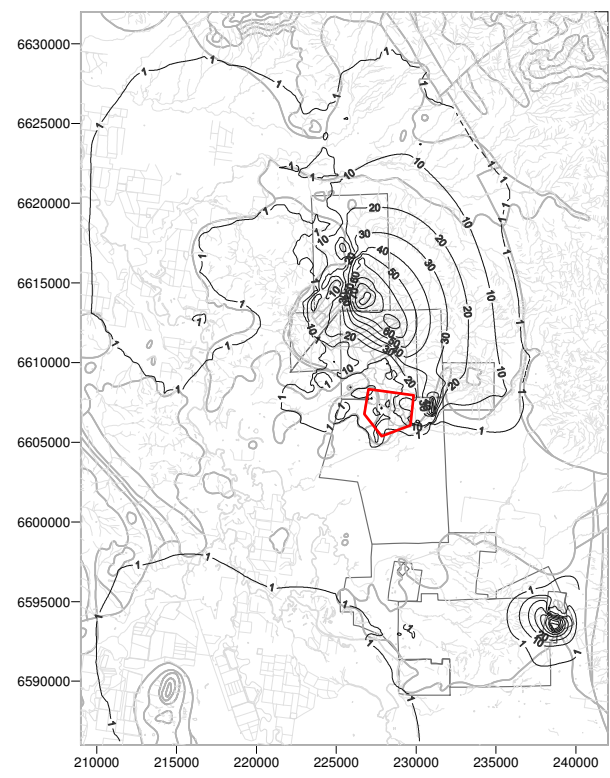
Year 5 – Layer 4 [Braymont-Jeralong Seam] – Cumulative



Year 10 – Layer 4 [Braymont-Jeralong Seam] – Cumulative

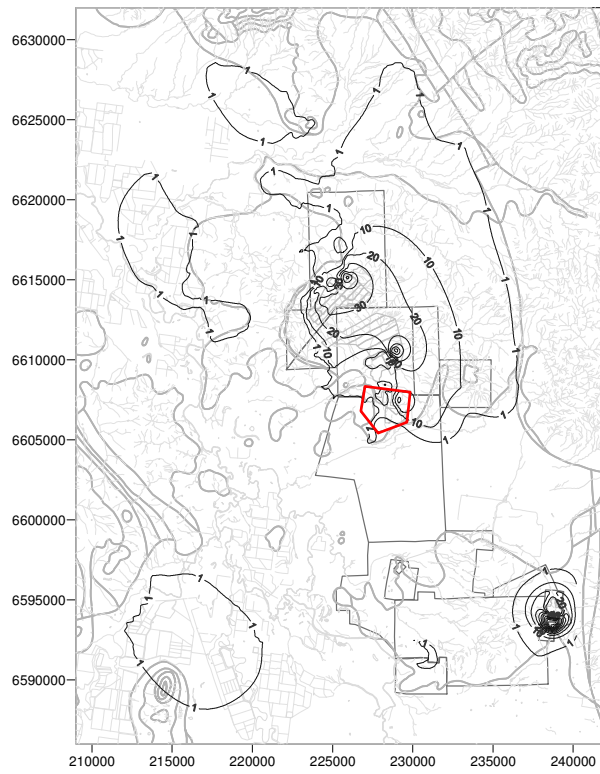


Year 15 – Layer 4 [Braymont-Jeralong Seam] – Cumulative

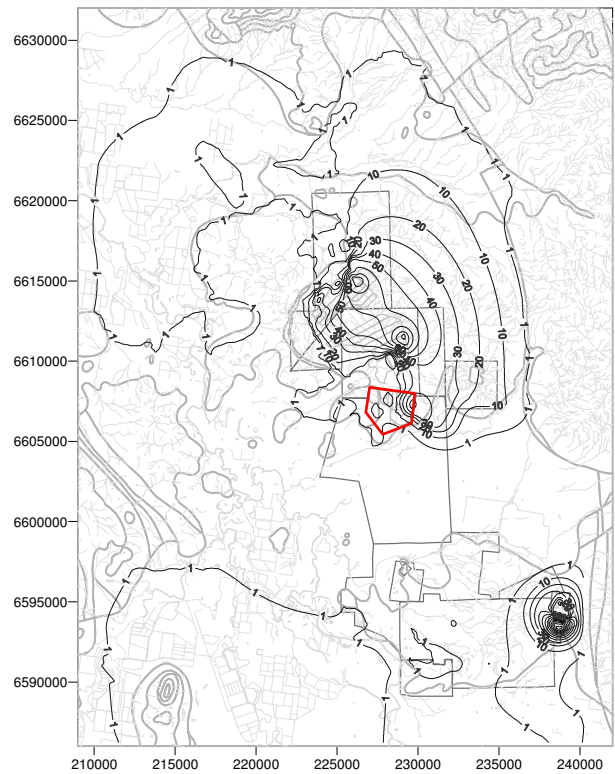


Year 19 – Layer 4 [Braymont-Jeralong Seam] – Cumulative

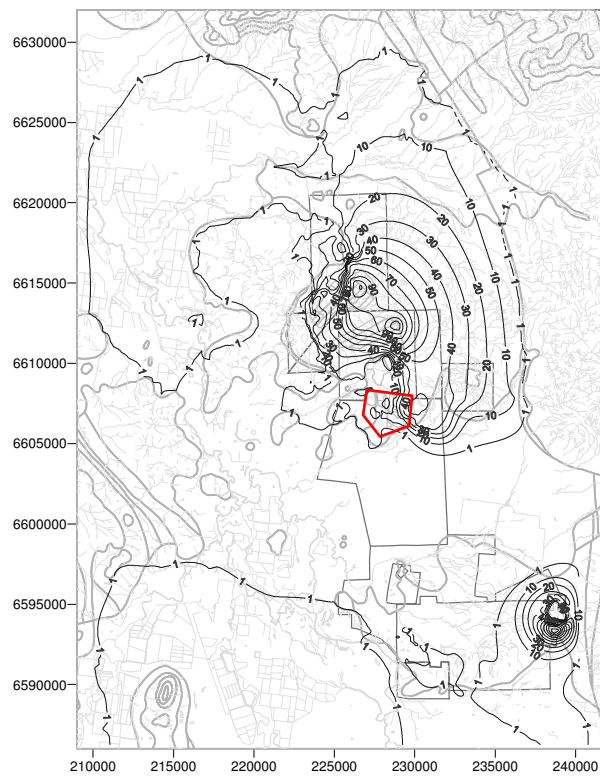
Figure AC-8 Drawdown Contour Maps [Braymont-Jeralong Seam – Layer 4] – Model Years 5, 10, 15, 19 [Cumulative]



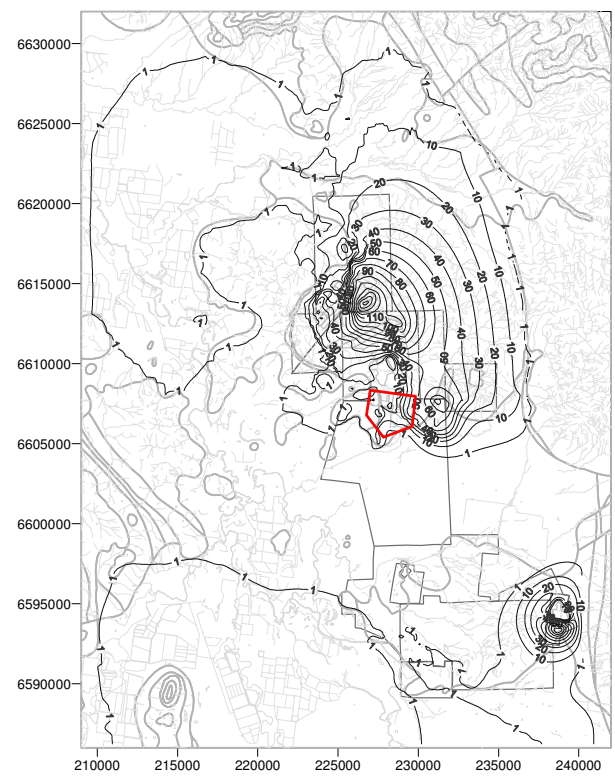
Year 5 – Layer 6 [Merriown-Velyama Seam] – Cumulative



Year 10 – Layer 6 [Merriown-Velyama Seam] – Cumulative

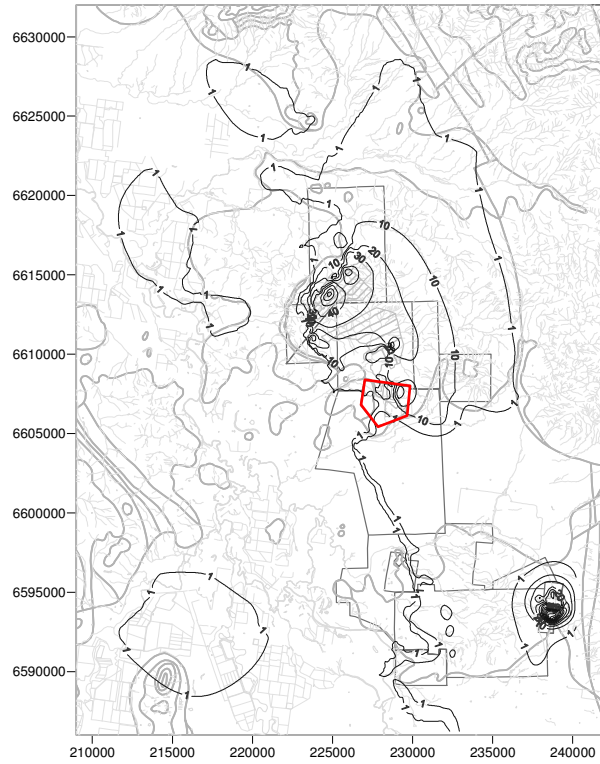


Year 15 – Layer 6 [Merriown-Velyama Seam] – Cumulative

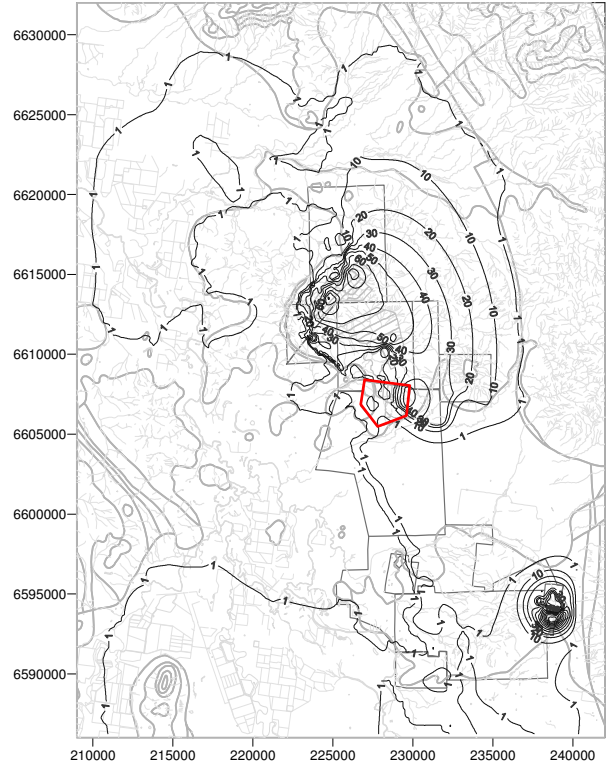


Year 19 – Layer 6 [Merriown-Velyama Seam] – Cumulative

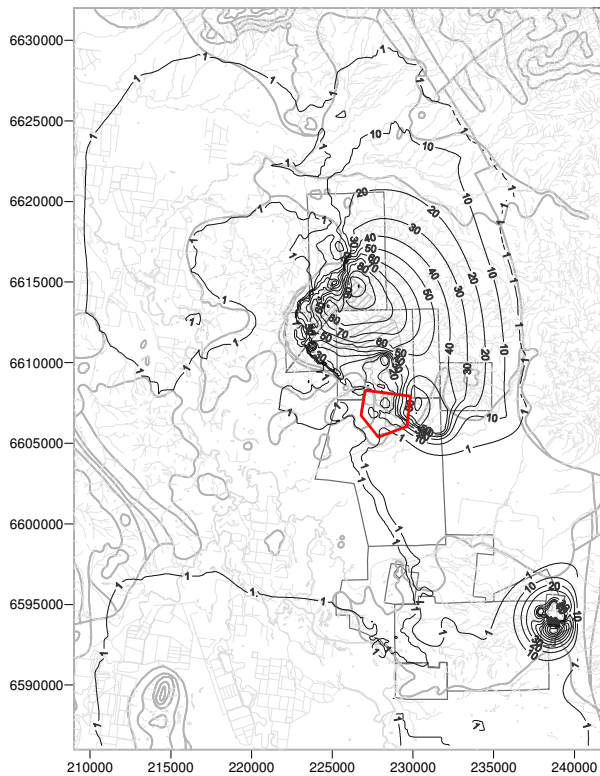
Figure AC-9 Drawdown Contour Maps [Merriown-Velyama Seam – Layer 6] – Model Years 5, 10, 15, 19 [Cumulative]



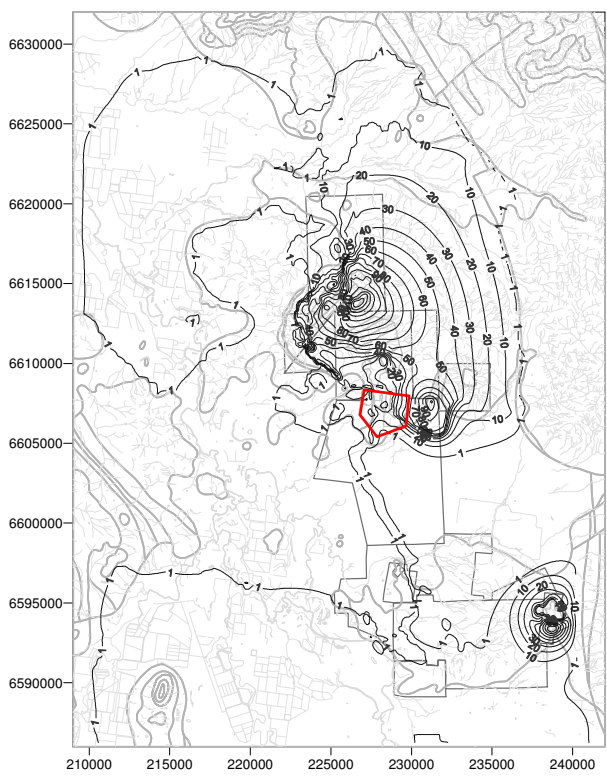
Year 5 – Layer 8 [Upper Nagero Seam] – Cumulative



Year 10 – Layer 8 [Upper Nagero Seam] – Cumulative



Year 15 – Layer 8 [Upper Nagero Seam] – Cumulative



Year 19 – Layer 8 [Upper Nagero Seam] – Cumulative

Figure AC-10 Drawdown Contour Maps [Upper Nagero Seam – Layer 8] – Model Years 5, 10, 15, 19 [Cumulative]

ATTACHMENT AD

Predicted Impacts on Individual Bores/Wells in the Project Area and Surrounds

Borehole	Easting (mMGA)	Northing (mMGA)	Type	Formation	Landholder	Predicted Impact of the Project
GW028894	221184	6610650			Aston Coal 2 Pty Ltd	No adverse impact
GW036010	223152	6606694			BCPL	About 1m drawdown
GW001508	223312	6606698			BCPL	About 1m drawdown
GW026419	224559	6607932			BCPL	1-2m drawdown
GW026454	223258	6606697			BCPL	About 1m drawdown
GW968046	226529	6608264		Possible Volcanics	BCPL	About 1m drawdown (regolith)
GW020437	225922	6607782			BCPL	No adverse impact
GW020434	223962	6608349			BCPL	No adverse impact
GW000526	226296	6607761			BCPL	No adverse impact
GW032117	222482	6604766		Alluvium	BCPL	No adverse impact
GW038232	222561	6604799		Alluvium	BCPL	No adverse impact
GW013064	222483	6604735		Alluvium	BCPL	No adverse impact
IBC2102 (GW967862)	226898	6611773	Bore	Coal	BCPL	No adverse impact
IBC2103 (GW967861)	226898	6611773	Bore	Coal	BCPL	No adverse impact
IBC2104 (GW967863)	228336	6612215	Bore	Coal	BCPL	No adverse impact
IBC2110	225954	6607689	Bore	Boggabri Volcanics	BCPL	About 1m drawdown
IBC2111	225954	6607689	Bore	Boggabri Volcanics	BCPL	About 1m drawdown
IBC2105 (GW967864)	228336	6612215	Bore	Coal	BCPL	No adverse impact
IBC2114 (GW967858)	229155	6610279	Bore	Coal	BCPL	About 1m drawdown (regolith); about 4m (coal)
IBC2115 (GW967857)	229155	6610279	Bore	Coal	BCPL	About 1m drawdown (regolith); about 4m (coal)
IBC2138	226725	6610387	Bore	Coal	BCPL	No adverse impact
IBC2139 (GW967858)	229421	6609296	Bore	Coal	BCPL	3-5m drawdown (regolith); about 15m (coal)
GW3115	225174	6608903	Bore	Boggabri Volcanics	BCPL	About 1m drawdown
MB4	226848	6612477	Bore		BCPL	No adverse impact
MB6	229699	6610899	Bore		BCPL	About 2m drawdown
MW03 (GW967860)	226041	6607875	Piezometer	Boggabri Volcanics	BCPL	No adverse impact
MW06 (GW967881)	225386	6607866	Piezometer	Alluvium	BCPL	2-3m drawdown
MW07 (GW967883)	229822	6607941	Piezometer	Coal Measures (interburden)	BCPL	About 70m drawdown (regolith); about 50m (coal)
GW020432	224451	6607991	Bore	Boggabri Volcanics	BCPL	1-2m drawdown
GW020438	222101	6607129			BCPL	About 1m drawdown
GW031986	221908	6607371		Alluvium	BCPL	About 1m drawdown
PG1	230534	6601903	Bore		Bull [Under Contract]	No adverse impact
K1	229067	6601871	Bore		Crosby	No adverse impact
K2	229109	6600836	Bore	Uncertain	Crosby	No adverse impact
K3	226888	6602290	Bore	Uncertain	Crosby	No adverse impact
N1	224261	6601884	Bore	Uncertain	Crosby	No adverse impact
N2	224112	6602496	Bore	Uncertain	Crosby	No adverse impact
N3	225539	6604012	Bore	Uncertain	Crosby	No adverse impact
N4	225151	6602523	Bore	Uncertain	Crosby	No adverse impact
N5	225206	6602432	Bore	Uncertain	Crosby	No adverse impact
N6	225148	6602615	Bore	Uncertain	Crosby	No adverse impact
N11	224255	6601909	Bore		Crosby	No adverse impact
GW032116	223096	6602655			Gillham	No adverse impact
BP1	234702	6603751	Bore		Hall	No adverse impact
BP2	235041	6603185	Bore		Hall	No adverse impact
GW043704	234551	6600509			Hall	No adverse impact
GW043705	232974	6600717		Alluvium	Hall	No adverse impact
GW967663	222813	6603898			James and Woodward	No adverse impact
GW005441	222691	6603877			James and Woodward	No adverse impact
LD1	230564	6602408	Bore		Laird	No adverse impact
GW031342	236434	6609524			Mainey	No adverse impact
GW001799	235241	6609248			Mainey	No adverse impact
G1	233292	6612022	Bore		McAuliffe	No adverse impact
G2	233588	6611970	Bore		McAuliffe	No adverse impact
G3	234483	6611624	Bore		McAuliffe	No adverse impact
G4	236926	6611806	Bore	Uncertain	McAuliffe	No adverse impact
GW009931	228448	6603809			McGregor	No adverse impact
GW028563	226663	6603825			McGregor	No adverse impact
GW009932	227240	6603131			McGregor	No adverse impact
GW059961	227680	6603635			McGregor	No adverse impact
GW969145	224480	6600694			McGregor	No adverse impact
GW031964	224480	6600625			McGregor	No adverse impact
GW031966	225105	6601196		Alluvium	McGregor	No adverse impact
GW043067	226774	6600499		Alluvium	McGregor	No adverse impact
GW031967	224146	6601172		Alluvium	McGregor	No adverse impact
MW04 (GW967850)	227848	6604710	Piezometer	Alluvium	McGregor	No adverse impact
GW052266	227848	6604674	Bore	Alluvium	McGregor	No adverse impact
GW030472	225148	6602615			NoW	No adverse impact
S2	236600	6607191	Bore		Picton	No adverse impact
S3	235802	6605837	Bore		Picton	No adverse impact
S6	234563	6606093	Bore	Alluvium	Picton	About 1m drawdown
S7	235314	6607330	Bore	Alluvium	Picton	About 1m drawdown
S8	235787	6607780	Bore		Picton	No adverse impact
S9	236012	6608369	Bore	Alluvium	Picton	No adverse impact
S10	236182	6608489	Well	Alluvium	Picton	No adverse impact
S11	236595	6609093	Bore		Picton	No adverse impact
S12	236681	6609456	Bore	Alluvium	Picton	No adverse impact
S13	233716	6606533	Bore		Picton	About 1m drawdown
S14	234682	6603810	Bore	Possible Coal Measure	Picton	No adverse impact
S15	234654	6603871	Bore	Possible Coal Measure	Picton	No adverse impact
GW967859	229826	6609000			State Forest NSW	About 8m drawdown
GW000507	226200	6609454			State Forest of NSW	No adverse impact
JE1	225598	6602979	Bore		Suey	No adverse impact
J1	224307	6604352	Bore		Suey	No adverse impact
TM1	230552	6604341	Bore		Whitehaven	No adverse impact
F1	232649	6602339	Bore		Whitehaven	No adverse impact
F2	231629	6601781	Bore		Whitehaven	No adverse impact
F3	232868	6600881	Bore	Uncertain	Whitehaven	No adverse impact
F4	236139	6601244	Bore	Uncertain	Whitehaven	No adverse impact
F5	234227	6602727	Bore	Uncertain	Whitehaven	No adverse impact
F6	231794	6603247	Bore	Uncertain	Whitehaven	No adverse impact
F7	232561	6603807	Bore		Whitehaven	No adverse impact
GW038839	232804	6605428			Whitehaven	No adverse impact
GW038841	232616	6605485			Whitehaven	No adverse impact
GW002069	232960	6604507			Whitehaven	No adverse impact
GW032831	228973	6605178			Whitehaven	No adverse impact
GW002506	232347	6608776			Whitehaven	About 1m drawdown
GW017148	231102	6606341			Whitehaven	Located in pit area
GW071484	232578	6605517			Whitehaven	No adverse impact
GW071533	232864	6605331			Whitehaven	No adverse impact
GW071534	232865	6604598			Whitehaven	No adverse impact
GW965624	232633	6605440			Whitehaven	No adverse impact
GW038840	233048	6605249			Whitehaven	No adverse impact
GW071532	232686	6605428			Whitehaven	No adverse impact
GW016878	228830	6605575			Whitehaven	No adverse impact

GW968515	228161	6607493			Whitehaven	No adverse impact
GW006013	231515	6606875		Possible Coal Measure	Whitehaven	About 90m drawdown (coal)
GW029832	233328	6607937		Possible Coal Measure	Whitehaven	5-6m drawdown (regolith); about 25m (coal)
GW000963	231830	6608147			Whitehaven	No adverse impact
GW048934	233052	6608331			Whitehaven	6-7m drawdown (regolith); about 30m (coal)
MW01 (GW967848)	228743	6605704	Piezometer	Coal Measures (interburden)	Whitehaven	No adverse impact
MW02 (GW967849)	228850	6605703	Piezometer	Alluvium	Whitehaven	No adverse impact
MW05 (GW967851)	229487	6605987	Piezometer	Alluvium	Whitehaven	About 1m drawdown
MW08 (GW967882)	226794	6606958	Piezometer	Coal Measures (interburden)	Whitehaven	No adverse impact
GW002129	228724	6606271	Bore	Coal	Whitehaven	About 1m drawdown
GW002501	228013	6606613	Bore	Coal Measures (interburden)	Whitehaven	No adverse impact
GW044997	230870	6605859	Bore	Alluvium	Whitehaven	No adverse impact
GW031856	229157	6603179	Bore	Alluvium	Whitehaven	No adverse impact
"Thuin" Production Bore (GW968397)	228617	6606146	Bore		Whitehaven	No adverse impact
Templemore A (GW032929)	230997	6605537	Bore	Uncertain	Whitehaven	No adverse impact
Templemore B (GW032832)	230544	6604345	Bore	Uncertain	Whitehaven	No adverse impact