

**RIX'S CREEK MINE
SURFACE WATER MONITORING
2022 RESULTS**

License Number: 3391
Licensee: RIX'S CREEK PTY. LIMITED
PO BOX 4
EAST MAITLAND NSW 2323

Premises: RIX'S CREEK COLLIERY
RIX'S CREEK LANE
SINGLETON NSW 2330

Monitoring Frequency: Monthly
Sampling method: Grab sample
Limits: Nil

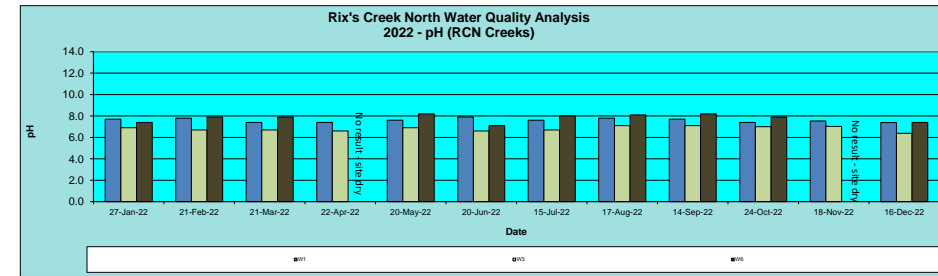
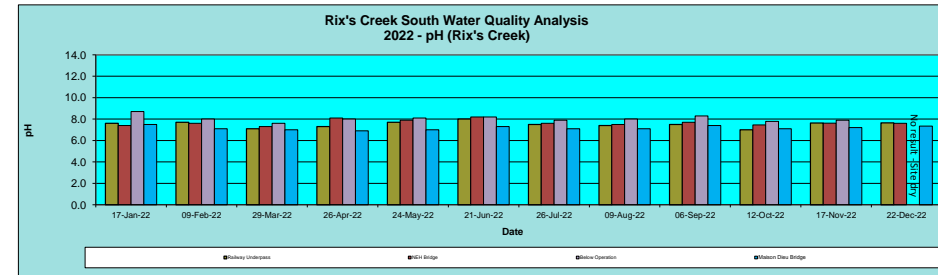
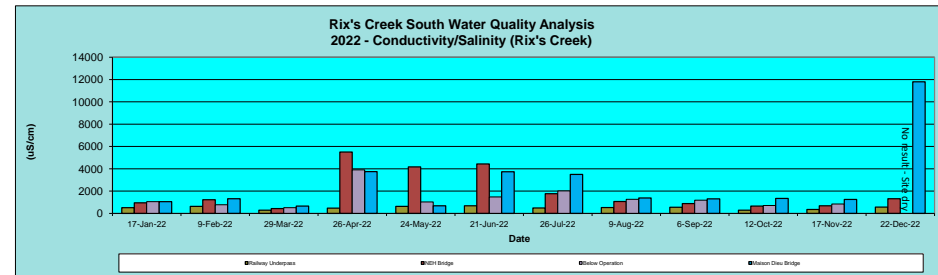
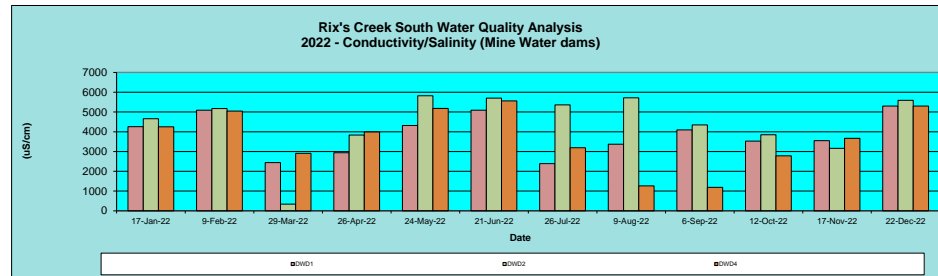
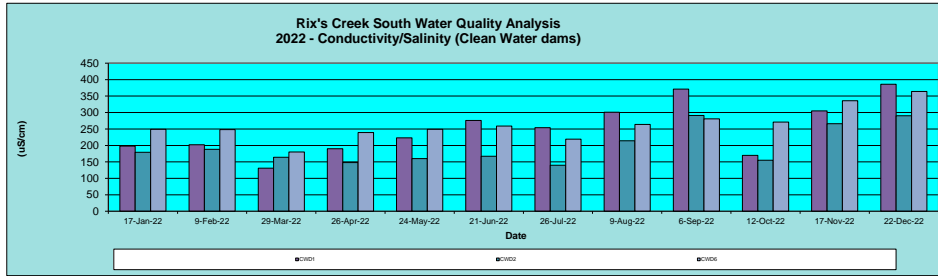
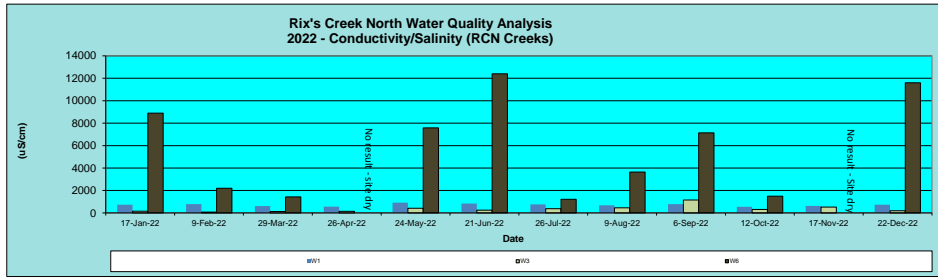


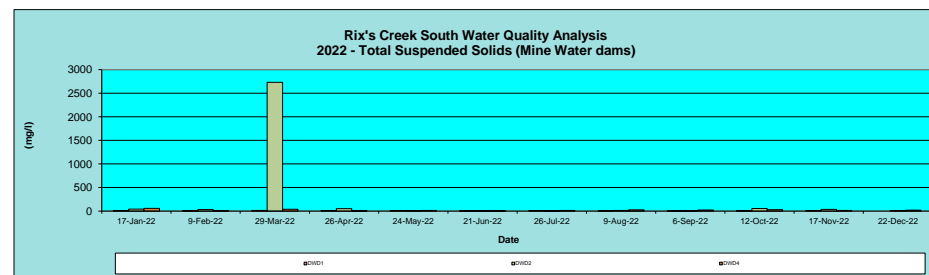
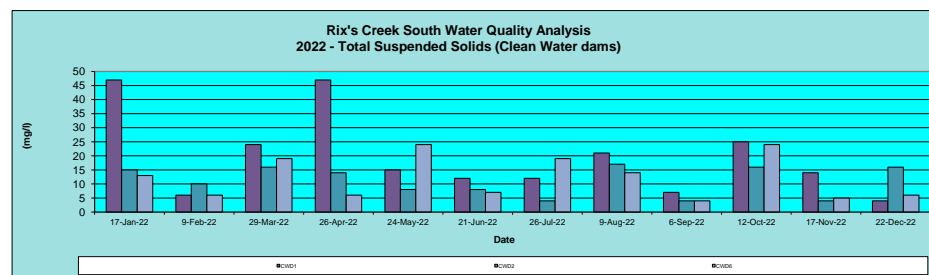
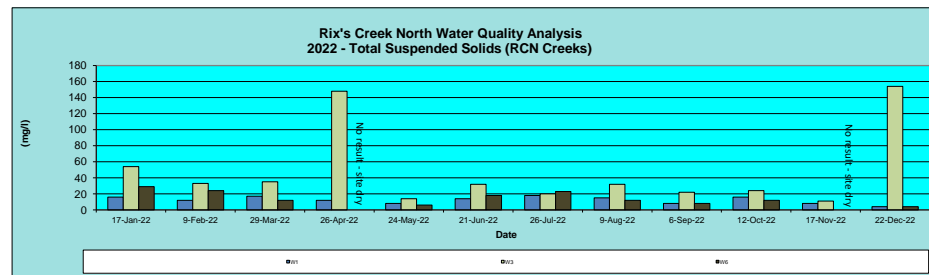
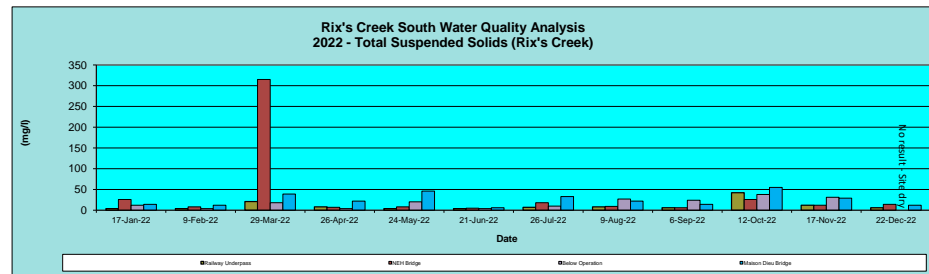
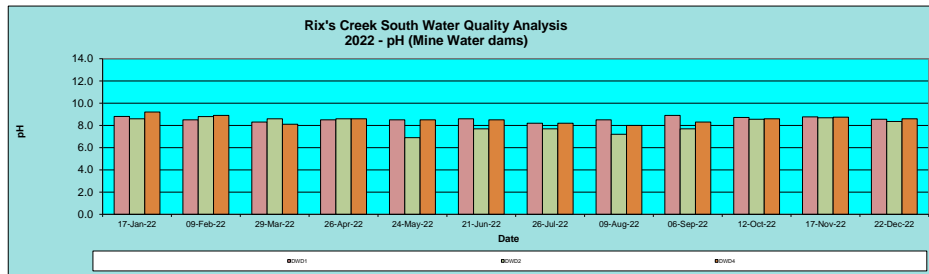
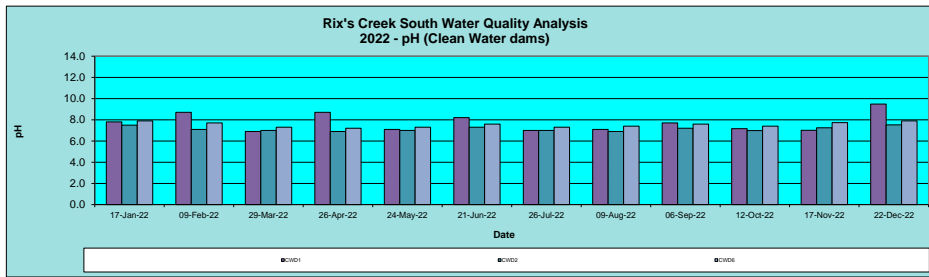
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Sampling Point	Monitoring Location	Pollutant	Unit	JANUARY Measurement	FEBRUARY Measurement	MARCH Measurement	APRIL Measurement	MAY Measurement	JUNE Measurement
1	Railway Underpass	Conductivity	uS/cm	518	634	294	467	627	678
		pH	pH	7.6	7.7	7.1	7.3	7.7	8.0
		Total dissolved solids	mg/l	330	365	247	354	352	394
		Total suspended solids	mg/l	4	4	21	8	4	4
2	NEH Bridge	Conductivity	uS/cm	951	1230	438	5500	4170	4430
		pH	pH	7.4	7.7	7.3	8.1	7.9	8.2
		Total dissolved solids	mg/l	583	670	396	3830	2240	2450
		Total suspended solids	mg/l	26	8	315	7	8	5
10	Below Operation	Conductivity	uS/cm	1060	783	510	3910	1030	1470
		pH	pH	8.7	8.0	7.6	8.0	8.1	8.2
		Total dissolved solids	mg/l	624	456	445	2470	549	811
		Total suspended solids	mg/l	12	4	18	4	20	4
3	Maison Dieu Bridge	Conductivity	uS/cm	1050	1320	656	3740	678	3730
		pH	pH	7.2	7.3	7.1	7.2	7.3	7.2
		Total dissolved solids	mg/l	592	698	455	2290	474	2180
		Total suspended solids	mg/l	14	12	39	22	46	6
4	CWD1	Conductivity	uS/cm	198	202	131	190	223	276
		pH	pH	7.8	8.7	6.9	8.7	7.1	8.2
		Total dissolved solids	mg/l	184	135	206	237	157	179
		Total suspended solids	mg/l	47	6	24	47	15	12
5	CWD2	Conductivity	uS/cm	179	188	164	148	160	167
		pH	pH	7.5	7.1	7.0	6.9	7.0	7.3
		Total dissolved solids	mg/l	188	175	204	199	186	197
		Total suspended solids	mg/l	15	10	16	14	8	8
7	CWD6	Conductivity	uS/cm	249	248	180	239	249	259
		pH	pH	7.9	7.7	7.3	7.2	7.3	7.6
		Total dissolved solids	mg/l	206	180	185	230	214	211
		Total suspended solids	mg/l	13	6	19	6	24	7
8	DWD1	Conductivity	uS/cm	4260	5090	2440	2940	4320	5090
		pH	pH	8.8	8.5	8.3	8.5	8.5	8.6
		Total dissolved solids	mg/l	2540	3140	1390	1720	2480	2970
		Total suspended solids	mg/l	12	7	14	10	10	4
9	DWD2	Conductivity	uS/cm	4660	5170	338	3830	5820	5700
		pH	pH	8.6	8.8	8.6	8.6	6.9	7.7
		Total dissolved solids	mg/l	2790	3200	251	2340	3700	3370
		Total suspended solids	mg/l	44	32	2730	51	8	4
6	DWD4	Conductivity	uS/cm	4250	5050	2910	3990	5180	5560
		pH	pH	9.2	8.9	8.1	8.6	8.5	8.5
		Total dissolved solids	mg/l	2660	2680	1710	2390	3040	3530
		Total suspended solids	mg/l	57	7	39	6	16	6

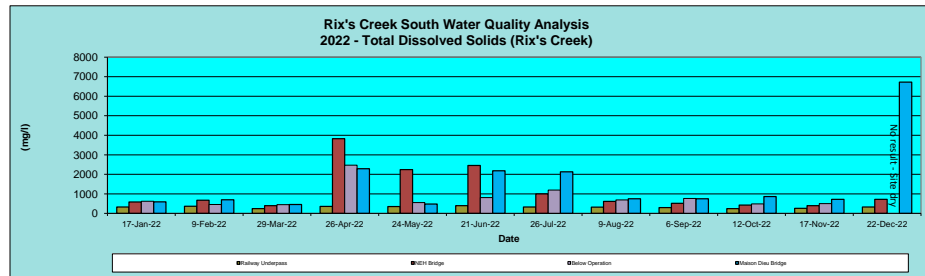
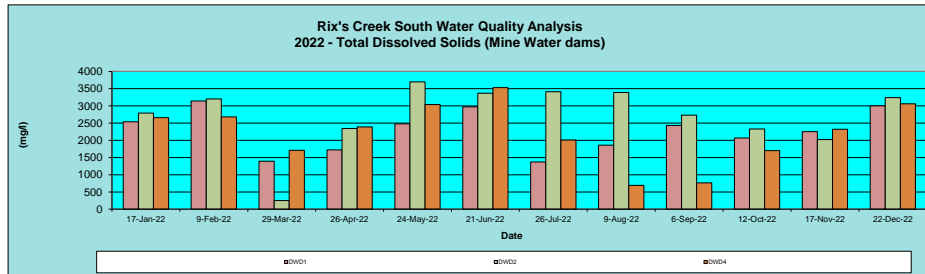
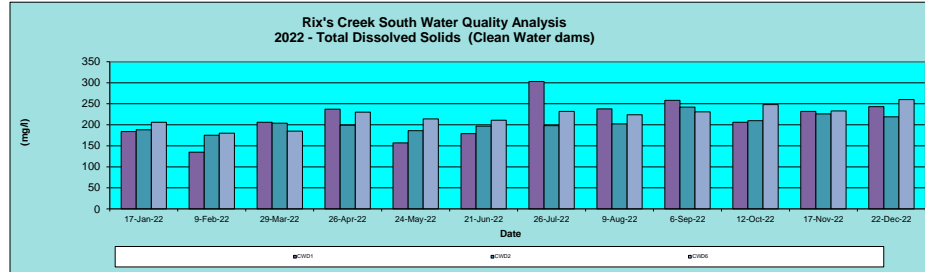
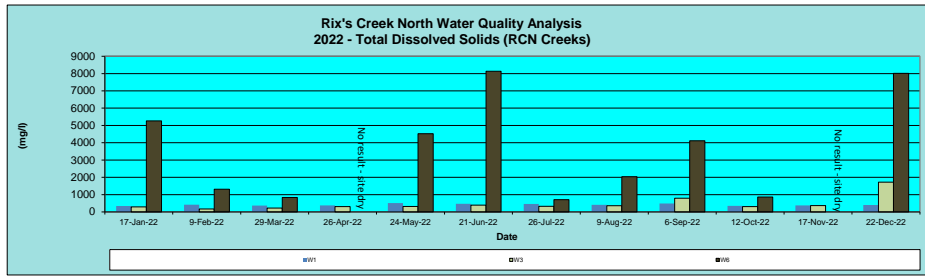
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Sampling Point	Monitoring Location	Pollutant	Unit	JANUARY Measurement	FEBRUARY Measurement	MARCH Measurement	APRIL Measurement	MAY Measurement	JUNE Measurement
11	W1	Conductivity	uS/cm	732	781	618	564	910	832
		pH	pH	7.7	7.8	7.4	7.4	7.6	7.9
		Total dissolved solids	mg/l	345	415	370	379	516	473
		Total suspended solids	mg/l	16	12	17	12	8	14
12	W3	Conductivity	uS/cm	157	74	132	135	415	243
		pH	pH	6.9	6.7	6.7	6.6	6.9	6.6
		Total dissolved solids	mg/l	292	170	226	307	319	392
		Total suspended solids	mg/l	54	33	35	148	14	32
13	W6	Conductivity	uS/cm	8900	2200	1430	No result	7580	12400
		pH	pH	7.4	7.9	7.9	site dry	8.2	7.1
		Total dissolved solids	mg/l	5260	1310	839		4520	8130
		Total suspended solids	mg/l	29	24	12		6	18

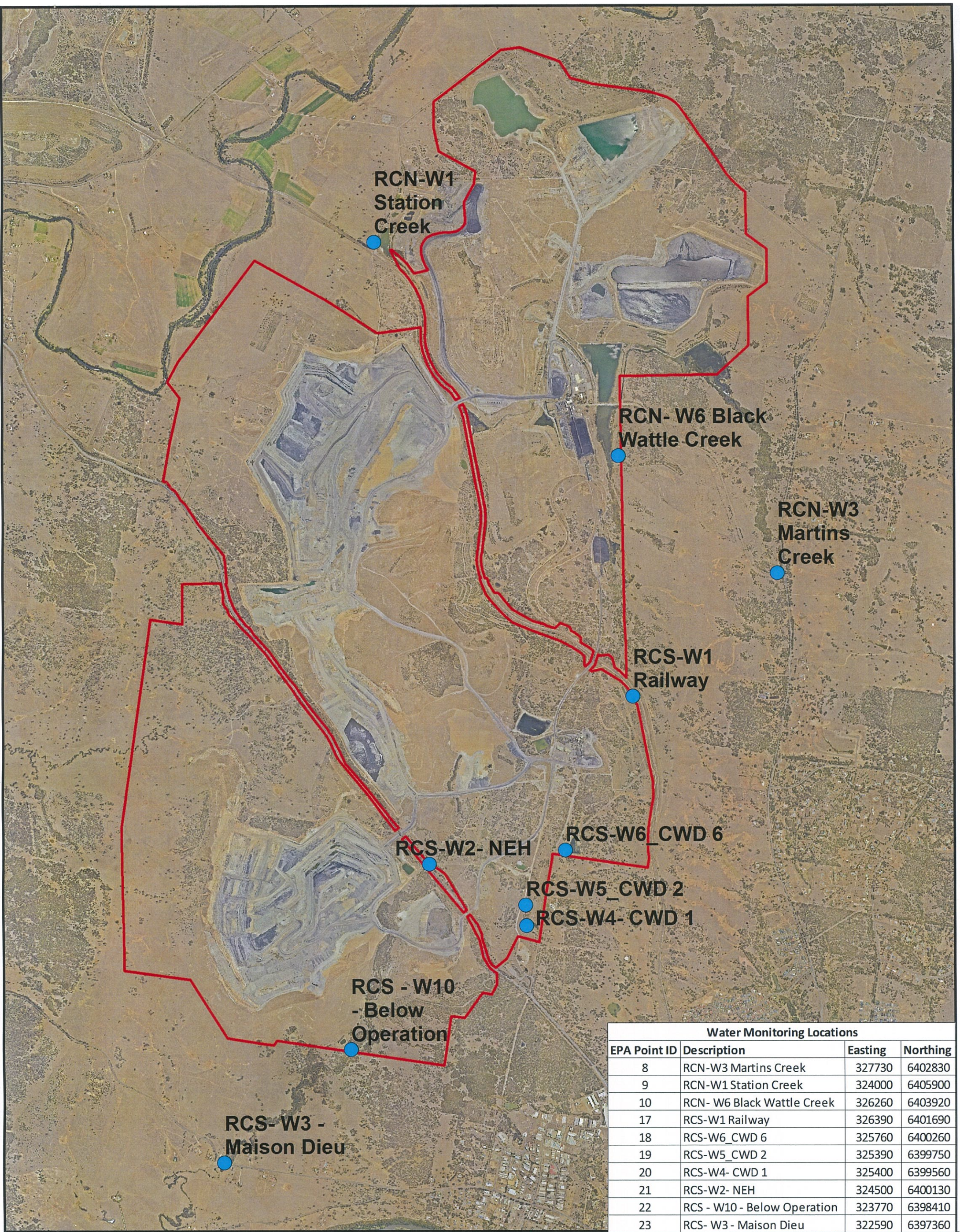
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Sampling Point	Monitoring Location	Pollutant	Unit	JULY Measurement	AUGUST Measurement	SEPTEMBER Measurement	OCTOBER Measurement	NOVEMBER Measurement	DECEMBER Measurement
1	Railway Underpass	Conductivity	uS/cm	481	525	547	289	349	563
		pH		7.5	7.4	7.5	7.0	7.6	7.7
		Total dissolved solids	mg/l	326	320	296	245	256	327
		Total suspended solids	mg/l	7	8	6	42	12	6
2	NEH Bridge	Conductivity	uS/cm	1760	1070	885	662	683	1320
		pH		7.6	7.5	7.7	7.5	7.6	7.6
		Total dissolved solids	mg/l	1000	615	514	428	396	717
		Total suspended solids	mg/l	18	9	6	26	12	14
10	Below Operation	Conductivity	uS/cm	2020	1260	1190	712	841	
		pH		7.9	8.0	8.3	7.8	7.9	No result
		Total dissolved solids	mg/l	1190	690	762	481	502	site dry
		Total suspended solids	mg/l	10	27	24	38	31	
3	Maison Dieu Bridge	Conductivity	uS/cm	3500	1380	1310	1350	1250	11800
		pH		7.1	7.1	7.4	7.1	7.2	7.4
		Total dissolved solids	mg/l	2130	751	751	865	720	6720
		Total suspended solids	mg/l	33	22	14	55	29	12
4	CWD1	Conductivity	uS/cm	254	301	371	170	305	386
		pH		7.0	7.1	7.7	7.2	7.0	9.5
		Total dissolved solids	mg/l	303	238	258	206	232	243
		Total suspended solids	mg/l	12	21	7	25	14	4
5	CWD2	Conductivity	uS/cm	140	214	291	155	266	290
		pH		7.0	6.9	7.2	7.0	7.3	7.5
		Total dissolved solids	mg/l	198	202	242	210	226	219
		Total suspended solids	mg/l	4	17	4	16	4	16
7	CWD6	Conductivity	uS/cm	219	264	281	271	336	364
		pH		7.3	7.4	7.6	7.4	7.7	7.9
		Total dissolved solids	mg/l	232	224	231	248	233	260
		Total suspended solids	mg/l	19	14	4	24	5	6
8	DWD1	Conductivity	uS/cm	2390	3370	4090	3530	3550	5300
		pH		8.2	8.5	8.9	8.7	8.8	8.6
		Total dissolved solids	mg/l	1370	1860	2430	2070	2250	3000
		Total suspended solids	mg/l	10	8	4	8	11	0
9	DWD2	Conductivity	uS/cm	5360	5720	4350	3850	3160	5590
		pH		7.7	7.2	7.7	8.6	8.7	8.4
		Total dissolved solids	mg/l	3410	3390	2730	2330	2020	3240
		Total suspended solids	mg/l	4	14	4	55	35	11
6	DWD4	Conductivity	uS/cm	3190	1260	1190	2780	3670	5300
		pH		8.2	8.0	8.3	8.6	8.7	8.6
		Total dissolved solids	mg/l	2010	690	762	1700	2320	3060
		Total suspended solids	mg/l	13	27	24	30	13	22

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Sampling Point	Monitoring Location	Pollutant	Unit	JULY Measurement	AUGUST Measurement	SEPTEMBER Measurement	OCTOBER Measurement	NOVEMBER Measurement	DECEMBER Measurement
11	W1	Conductivity	uS/cm	752	681	784	552	622	737
		pH		7.6	7.8	7.7	7.4	7.5	7.4
		Total dissolved solids	mg/l	463	414	491	352	378	406
		Total suspended solids	mg/l	18	15	8	16	8	4
12	W3	Conductivity	uS/cm	372	457	1150	310	516	188
		pH		6.7	7.1	7.1	7.0	7.0	6.4
		Total dissolved solids	mg/l	329	358	790	309	370	1720
		Total suspended solids	mg/l	20	32	22	24	11	154
13	W6	Conductivity	uS/cm	1220	3650	7130	1490		11600
		pH		8.0	8.1	8.2	7.9	No result	7.4
		Total dissolved solids	mg/l	706	2040	4110	866	site dry	8010
		Total suspended solids	mg/l	23	12	8	12		4









Water Monitoring Locations			
EPA Point ID	Description	Easting	Northing
8	RCN-W3 Martins Creek	327730	6402830
9	RCN-W1 Station Creek	324000	6405900
10	RCN- W6 Black Wattle Creek	326260	6403920
17	RCS-W1 Railway	326390	6401690
18	RCS-W6_CWD 6	325760	6400260
19	RCS-W5_CWD 2	325390	6399750
20	RCS-W4- CWD 1	325400	6399560
21	RCS-W2- NEH	324500	6400130
22	RCS - W10 - Below Operation	323770	6398410
23	RCS- W3 - Maison Dieu	322590	6397360



Legend

- EPL_Water_pointsb.csv Events
- EPL PREMISES BOUNDARY

T. R. Gentle 13/8/2020
 Timothy R Gentle
 Surveyor Registered under the
 Surveying and Spatial Information Act, 2002

EPL 3391
Surface Water
Monitoring Sites

THE Bloomfield GROUP
 WE CARE. WE DELIVER.
 Author: TRG
 Scale: 1:30,000
 Date: 13/08/2020
 File: EPL Water monit 2008