

**RIX'S CREEK MINE
SURFACE WATER MONITORING
2021 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

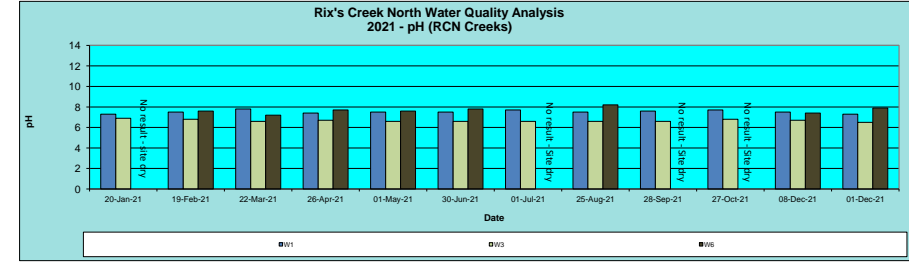
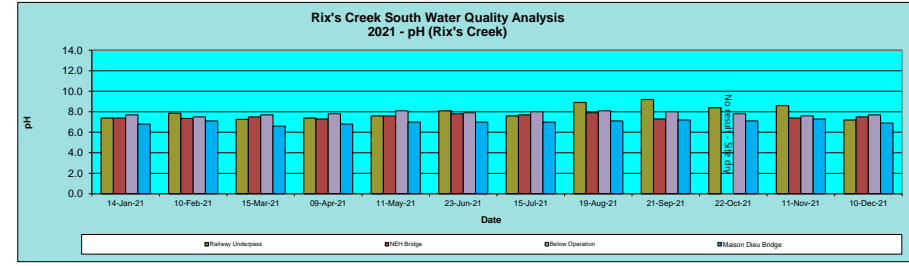
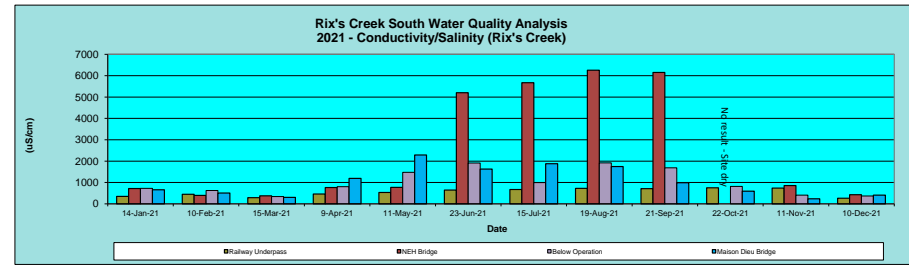
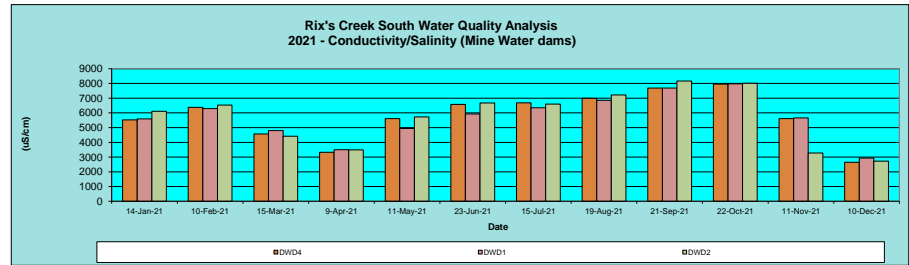
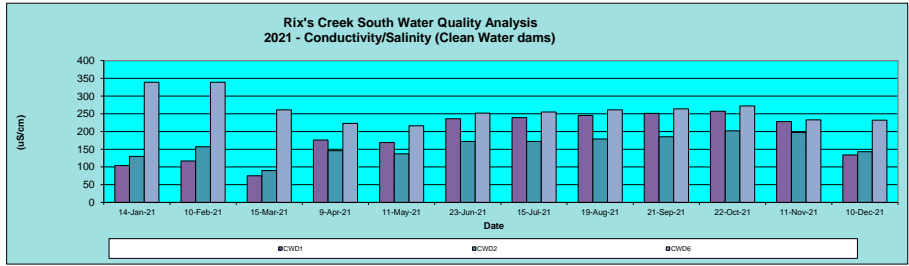
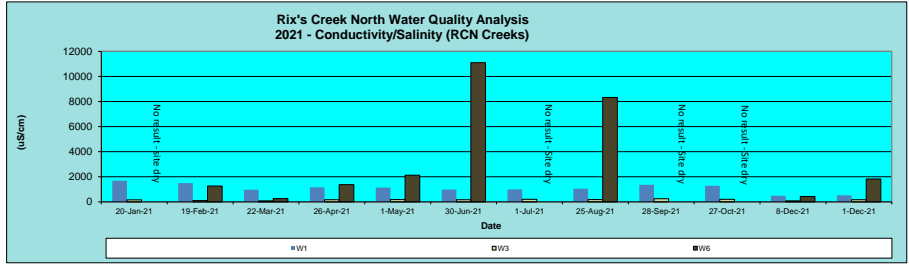


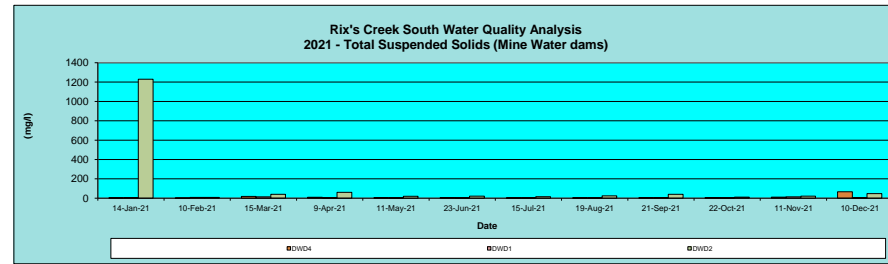
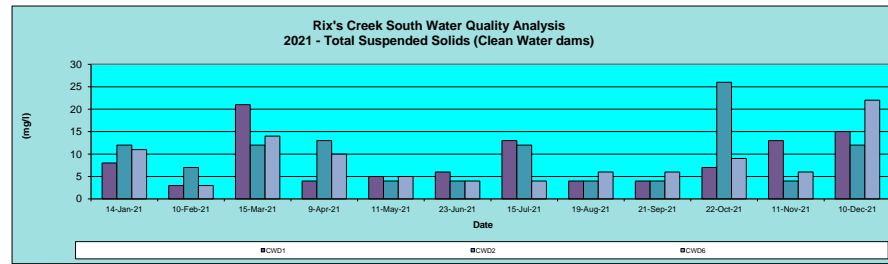
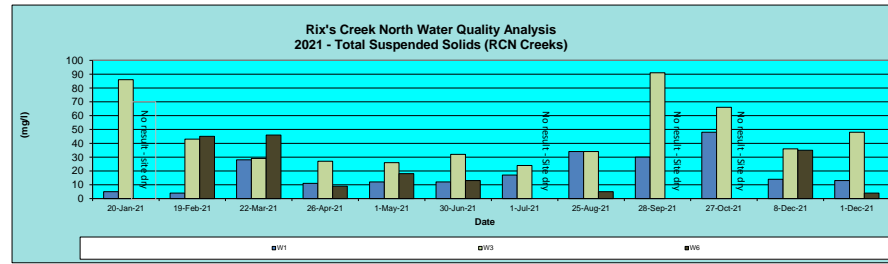
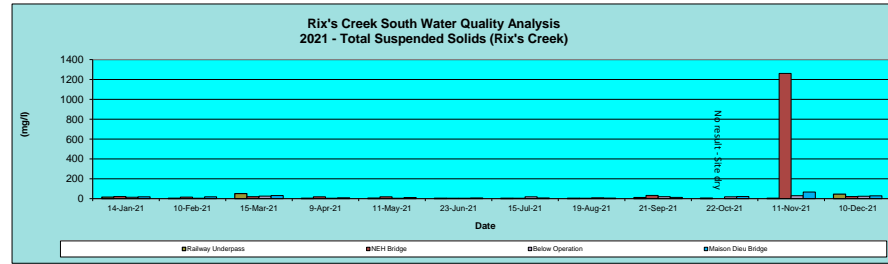
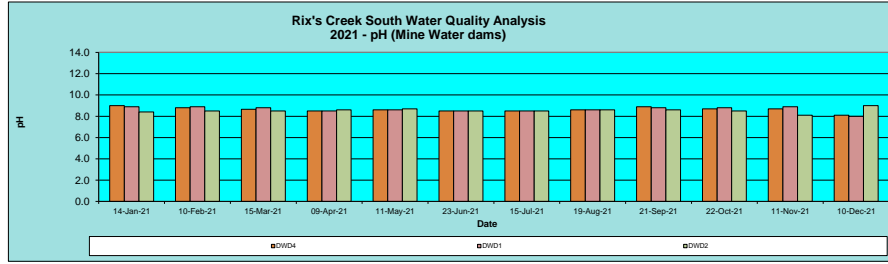
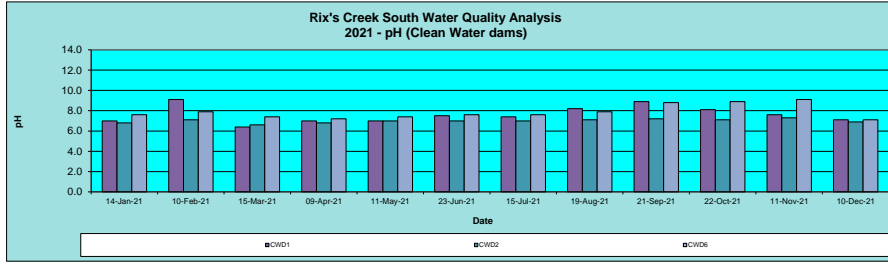
Sampling Point	Monitoring Location	Pollutant	Unit	Published:	28 January 2021	18 February 2021	31 March 2021	3 May 2021	27 May 2021	1 July 2021
				Sampled:	14 January 2021	10 February 2021	15 March 2021	9 April 2021	11 May 2021	23 June 2021
				Obtained:	25 January 2021	17 February 2021	25 March 2021	19 April 2021	18 May 2021	30 June 2021
				JANUARY Measurement	FEBRUARY Measurement	MARCH Measurement	APRIL Measurement	MAY Measurement	JUNE Measurement	
1	Railway Underpass	Conductivity	uS/cm	352	448	289	460	532	644	
		pH		7.4	7.9	7.3	7.4	7.6	8.1	
		Total dissolved solids	mg/l	249	254	279	267	381	354	
		Total suspended solids	mg/l	16	4	51	4	6	4	
2	NEH Bridge	Conductivity	uS/cm	718	393	378	765	770	5200	
		pH		7.4	7.4	7.5	7.3	7.6	7.8	
		Total dissolved solids	mg/l	452	256	256	458	538	3310	
		Total suspended solids	mg/l	21	15	20	19	18	4	
10	Below Operation	Conductivity	uS/cm	727	628	344	807	1480	1910	
		pH		7.7	7.5	7.7	7.8	8.1	7.9	
		Total dissolved solids	mg/l	445	388	251	471	874	1070	
		Total suspended solids	mg/l	14	5	26	4	4	4	
3	Maison Dieu Bridge	Conductivity	uS/cm	658	510	304	1,190	2,290	1,630	
		pH		7.1	7.1	7.3	7.1	7.4	7.1	
		Total dissolved solids	mg/l	409	307	250	672	1370	886	
		Total suspended solids	mg/l	18	18	31	8	11	7	
4	CWD1	Conductivity	uS/cm	104	117	75	176	169	236	
		pH		7.0	9.1	6.4	7.0	7.0	7.5	
		Total dissolved solids	mg/l	153	123	104	163	179	167	
		Total suspended solids	mg/l	8	3	21	4	5	6	
5	CWD2	Conductivity	uS/cm	130	157	90	146	137	172	
		pH		6.8	7.1	6.6	7.0	7.0	7.0	
		Total dissolved solids	mg/l	154	117	81	171	220	174	
		Total suspended solids	mg/l	12	7	12	13	4	4	
7	CWD6	Conductivity	uS/cm	339	339	261	223	216	252	
		pH		7.6	7.9	7.4	7.2	7.4	7.6	
		Total dissolved solids	mg/l	238	231	196	186	175	167	
		Total suspended solids	mg/l	11	3	14	10	5	4	
8	DWD1	Conductivity	uS/cm	5,590	6,290	4,800	3,500	4,940	5,930	
		pH		8.9	8.9	8.8	8.5	8.6	8.5	
		Total dissolved solids	mg/l	3,440	3,910	3,150	2,070	3,270	3,680	
		Total suspended solids	mg/l	5	8	14	4	4	4	
9	DWD2	Conductivity	uS/cm	6,110	6,530	4,420	3,490	5,730	6,670	
		pH		8.4	8.5	8.5	8.6	8.7	8.5	
		Total dissolved solids	mg/l	3,600	4,130	3,130	2,120	3,840	4,320	
		Total suspended solids	mg/l	1,230	9	40	61	20	21	
6	DWD4	Conductivity	uS/cm	5,530	6,380	4,570	3,330	5,610	6,580	
		pH		9.0	8.8	8.7	8.5	8.6	8.5	
		Total dissolved solids	mg/l	3,570	3,970	3,120	2,030	3,820	4,150	
		Total suspended solids	mg/l	4	3	19	10	6	6	

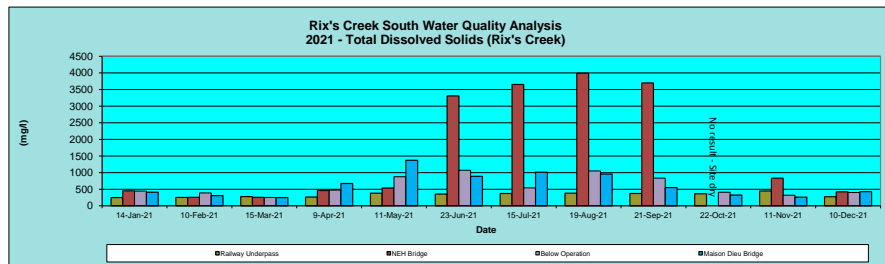
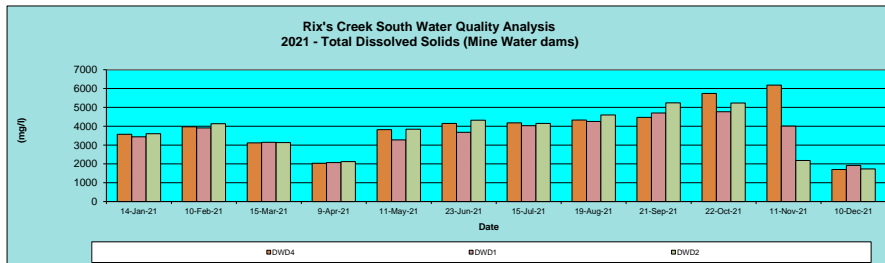
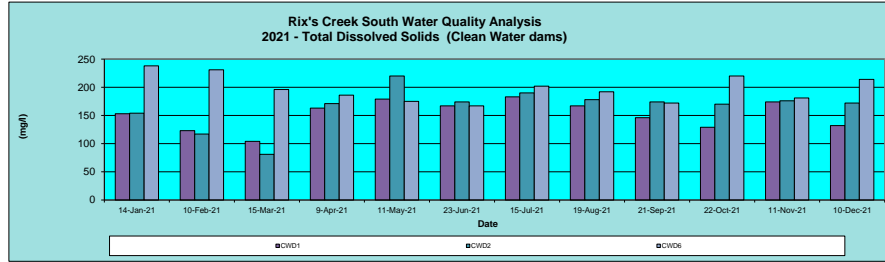
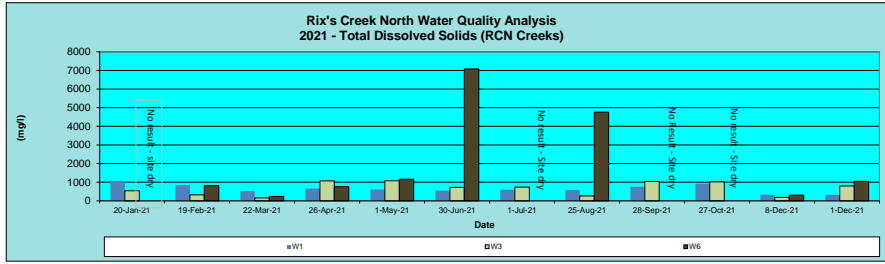
Sampling Point	Monitoring Location	Pollutant	Unit	Published:	28 January 2021	2 March 2021	31 March 2021	3 May 2021	27 May 2021	8 July 2021
				Sampled:	20 January 2021	19 February 2021	22 March 2021	26 April 2021	1 May 2021	30 June 2021
				Obtained:	28 January 2021	1 March 2021	30 March 2021	3 May 2021	27 May 2021	7 July 2021
				JANUARY Measurement	FEBRUARY Measurement	MARCH Measurement	APRIL Measurement	MAY Measurement	JUNE Measurement	
11	W1	Conductivity	uS/cm	1692	1500	970	1,160	1,140	986	
		pH		7.3	7.5	7.8	7.4	7.5	7.5	
		Total dissolved solids	mg/l	1070	846	519	663	606	552	
		Total suspended solids	mg/l	5	4	28	11	12	12	
12	W3	Conductivity	uS/cm	166	110	84	170	186	177	
		pH		6.9	6.8	6.6	6.7	6.6	6.6	
		Total dissolved solids	mg/l	538	322	152	1070	1080	721	
		Total suspended solids	mg/l	86	43	29	27	26	32	
13	W6	Conductivity	uS/cm	No result	1260	263	1370	2130	11100	
		pH		site dry	7.6	7.2	7.7	7.6	7.8	
		Total dissolved solids	mg/l		823	236	763	1160	7080	
		Total suspended solids	mg/l		45	46	9	18	13	

Published: Sampled: Obtained:				4 August 2021 15 July 2021 21 July 2021	31 August 2021 19 August 2021 24 August 2021	7 October 2021 21 September 2021 30 September 2021	4 November 2021 22 October 2021 29 October 2021	14 December 2021 11 November 2021 19 November 2021	11 January 2022 10 December 2021 4 January 2022
Sampling Point	Monitoring Location	Pollutant	Unit	JULY Measurement	AUGUST Measurement	SEPTEMBER Measurement	OCTOBER Measurement	NOVEMBER Measurement	DECEMBER Measurement
1	Railway Underpass	Conductivity	uS/cm	672	725	713	753	740	262
		pH	pH	7.6	8.9	9.2	8.4	8.6	7.2
		Total dissolved solids	mg/l	369	380	373	364	448	275
		Total suspended solids	mg/l	4	4	11	6	4	46
2	NEH Bridge	Conductivity	uS/cm	5,670	6,260	6,150	No result site dry	860	428
		pH	pH	7.7	7.9	7.3		7.4	7.5
		Total dissolved solids	mg/l	3,650	3,990	3,700		834	422
		Total suspended solids	mg/l	5	4	32		1,260	22
10	Below Operation	Conductivity	uS/cm	993	1920	1690	820	410	370
		pH	pH	8.0	8.1	8.0	7.8	7.6	7.7
		Total dissolved solids	mg/l	539	1050	834	411	320	402
		Total suspended solids	mg/l	19	8	20	18	30	24
3	Maison Dieu Bridge	Conductivity	uS/cm	1,880	1,750	990	595	240	409
		pH	pH	7.6	7.4	7.4	7.3	7.2	7.3
		Total dissolved solids	mg/l	1010	954	548	323	261	424
		Total suspended solids	mg/l	7	6	13	22	66	28
4	CWD1	Conductivity	uS/cm	239	245	251	257	228	134
		pH	pH	7.4	8.2	8.9	8.1	7.6	7.1
		Total dissolved solids	mg/l	183	167	146	129	174	132
		Total suspended solids	mg/l	13	4	4	7	13	15
5	CWD2	Conductivity	uS/cm	172	179	185	202	197	143
		pH	pH	7.0	7.1	7.2	7.1	7.3	6.9
		Total dissolved solids	mg/l	190	178	174	170	176	172
		Total suspended solids	mg/l	12	4	4	26	4	12
7	CWD6	Conductivity	uS/cm	255	261	264	272	233	232
		pH	pH	7.6	7.9	8.8	8.8	9.1	7.1
		Total dissolved solids	mg/l	202	192	172	220	181	214
		Total suspended solids	mg/l	4	6	6	9	6	22
8	DWD1	Conductivity	uS/cm	6,350	6,860	7,690	7,970	5,660	2,930
		pH	pH	8.5	8.6	8.8	8.8	8.9	8.0
		Total dissolved solids	mg/l	4,030	4,250	4,700	4,770	4,010	1,920
		Total suspended solids	mg/l	4	4	6	4	14	4
9	DWD2	Conductivity	uS/cm	6,600	7,220	8,170	8,010	3,280	2,720
		pH	pH	8.5	8.6	8.6	8.5	8.1	9.0
		Total dissolved solids	mg/l	4,150	4,600	5,240	5,230	2,180	1,730
		Total suspended solids	mg/l	16	24	41	12	22	48
6	DWD4	Conductivity	uS/cm	6,680	6,990	7,690	7,960	5,610	2,650
		pH	pH	8.5	8.6	8.9	8.7	8.7	8.1
		Total dissolved solids	mg/l	4,180	4,330	4,470	5,740	6,180	1,700
		Total suspended solids	mg/l	4	4	5	6	11	67

Published: Sampled: Obtained:				4 August 2021 1 July 2021 2 August 2021	31 August 2021 25 August 2021 30 August 2021	7 October 2021 28 September 2021 6 October 2021	4 November 2021 27 October 2021 3 November 2021	14 December 2021 8 December 2021 13 December 2021	11 January 2022 1 December 2021 10 January 2022	
Sampling Point	Monitoring Location	Pollutant	Unit	JULY Measurement	AUGUST Measurement	SEPTEMBER Measurement	OCTOBER Measurement	NOVEMBER Measurement	DECEMBER Measurement	
11	W1	Conductivity	uS/cm	995	1050	1360	1290	491	521	
		pH	pH	7.7	7.5	7.6	7.7	7.5	7.3	
		Total dissolved solids	mg/l	593	586	755	917	333	319	
		Total suspended solids	mg/l	17	34	30	48	14	13	
12	W3	Conductivity	uS/cm	208	188	250	209	86	168	
		pH	pH	6.6	6.6	6.6	6.8	6.7	6.5	
		Total dissolved solids	mg/l	735	258	1040	1020	186	798	
		Total suspended solids	mg/l	24	34	91	66	36	48	
13	W6	Conductivity	uS/cm	No result site dry	8330	No result site dry	No result site dry	No result site dry	426	1820
		pH	pH		8.2				7.4	7.9
		Total dissolved solids	mg/l		4760				310	1050
		Total suspended solids	mg/l		5				35	4










LEGEND

- Water Monitoring Site
- EPL 3391 Boundary

Water Monitoring Locations		
Site	Easting	Northing
RCN - W1 - Station Creek	324000	6405900
RCN - W6 - Black Wattle Creek	326260	6403920
RCN - W3 - Martins Creek	327730	6402830
RCS - W1 - Rixs Creek - Railway	326390	6401690
RCS - W6 - CWD 6	325760	6400260
RCS - W5 - CWD 2	325390	6399750
RCS - W4 - CWD 1	325400	6399560
RCS - W2 - Rixs Creek - NEH	324500	6400130
RCS - W10 - Rixs Creek - Below Operation	323770	6398410
RCS - W3 - Rixs Creek - Maison Dieu	322590	6397360



• RIX'S CREEK •

Rix's Creek P/L - EPL 3391

Surface Water Monitoring Sites

Scale:- 1:35,000

Date: February 2017
Photo: December 2015

Drawing A3
File:- Integra 4_jhDec16
Water Monitoring Sites EPL Feb17

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