

**RIX'S CREEK MINE  
SURFACE WATER MONITORING  
2019 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



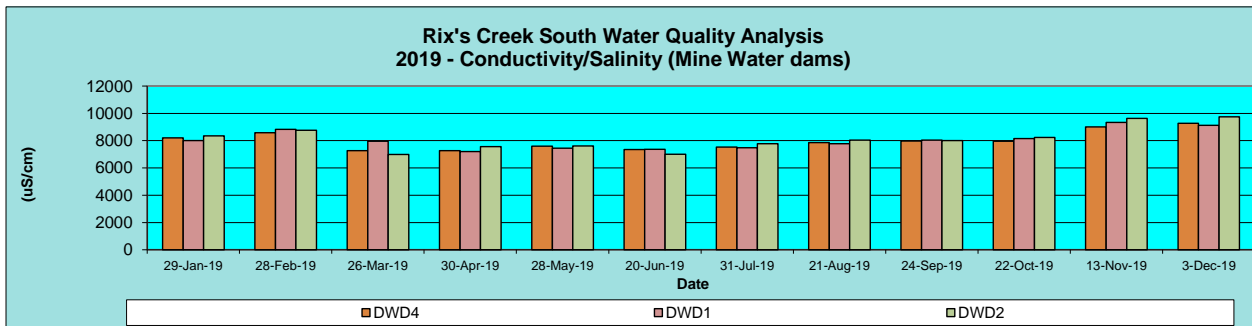
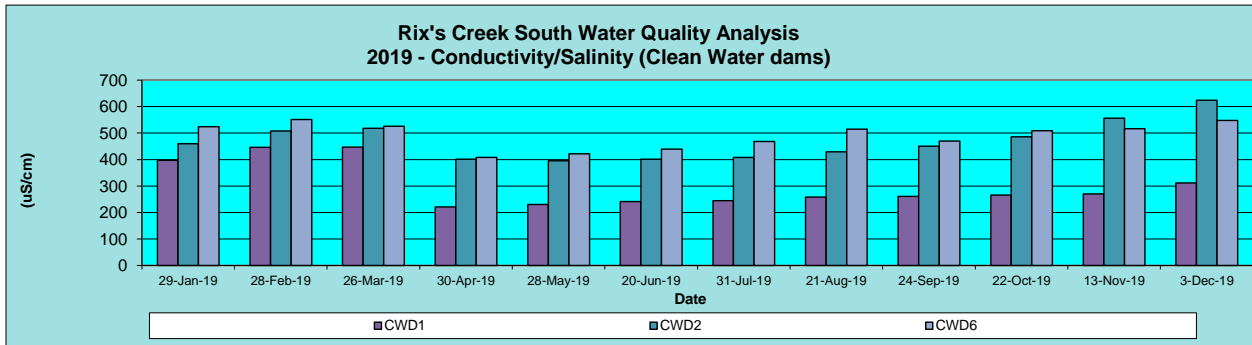
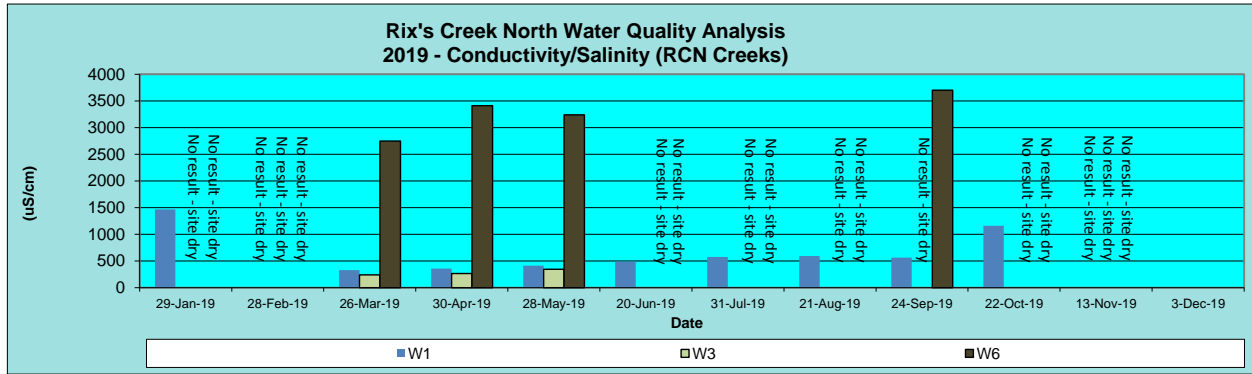
WE CARE. WE DELIVER.

			Published: Sampled: Obtained:	4 February 2019 29 January 2019 1 February 2019	15 March 2019 28 February 2019 8 March 2019	9 April 2019 26 March 2019 5 April 2019	13 May 2019 30 April 2019 3 May 2019	6 June 2019 28 May 2019 30 May 2019	9 July 2019 20 June 2019 28 June 2019
Sampling Point	Monitoring Location	Pollutant	Unit	JANUARY Measurement	FEBRUARY Measurement	MARCH Measurement	APRIL Measurement	MAY Measurement	JUNE Measurement
1	Railway Underpass	Conductivity pH Total dissolved solids Total suspended solids	uS/cm pH mg/l mg/l	1,477 9.1 1,130 19	1,602 8.5 870 50	502 7.1 1,100 26	375 7.0 295 8	433 7.3 292 9	476 7.3 421 8
2	NEH Bridge	Conductivity pH Total dissolved solids Total suspended solids	uS/cm pH mg/l mg/l	No result site dry	No result site dry	No result site dry	No result site dry	No result site dry	No result site dry
10	Below Operation	Conductivity pH Total dissolved solids Total suspended solids	uS/cm pH mg/l mg/l	No result site dry	No result site dry	465 7.5 324 8	No result site dry	No result site dry	No result site dry
3	Maison Dieu Bridge	Conductivity pH Total dissolved solids Total suspended solids	uS/cm pH mg/l mg/l	No result site dry	No result site dry	369 6.4 361 17	No result site dry	No result site dry	No result site dry
4	CWD1	Conductivity pH Total dissolved solids Total suspended solids	uS/cm pH mg/l mg/l	397 8.3 473 26	446 8.1 328 39	447 8.3 297 27	221 6.6 188 7	230 7.2 154 13	241 7.1 235 3
5	CWD2	Conductivity pH Total dissolved solids Total suspended solids	uS/cm pH mg/l mg/l	460 9.8 300.0 9	508 9.5 293 30	518 8.8 390 14	401 7.2 322 20	395 7.1 248 3	401 7.0 287 4
7	CWD6	Conductivity pH Total dissolved solids Total suspended solids	uS/cm pH mg/l mg/l	524 9.5 387 37	551 9.1 390 14	526 7.8 478 16	408 7.3 389 17	422 7.6 414 19	439 7.6 364 15
8	DWD1	Conductivity pH Total dissolved solids Total suspended solids	uS/cm pH mg/l mg/l	8,000 9.0 5,390 6	8,830 8.6 5,790 9	7,950 8.6 5,750 6	7,200 8.4 4,990 5	7,440 8.4 5,300 7	7,360 8.4 5,430 4
9	DWD2	Conductivity pH Total dissolved solids Total suspended solids	uS/cm pH mg/l mg/l	8,350 8.9 5,810 3	8,760 8.5 5,960 50	6,980 8.7 4,850 16	7,560 8.4 5,610 10	7,610 8.4 5,630 32	7,000 8.0 5,270 151
6	DWD4	Conductivity pH Total dissolved solids Total suspended solids	uS/cm pH mg/l mg/l	8,210 8.9 5,760 4	8,580 8.8 5,420 10	7,260 8.8 5,280 3	7,270 8.6 5,130 4	7,600 8.4 5,540 8	7,340 8.3 5,690 4

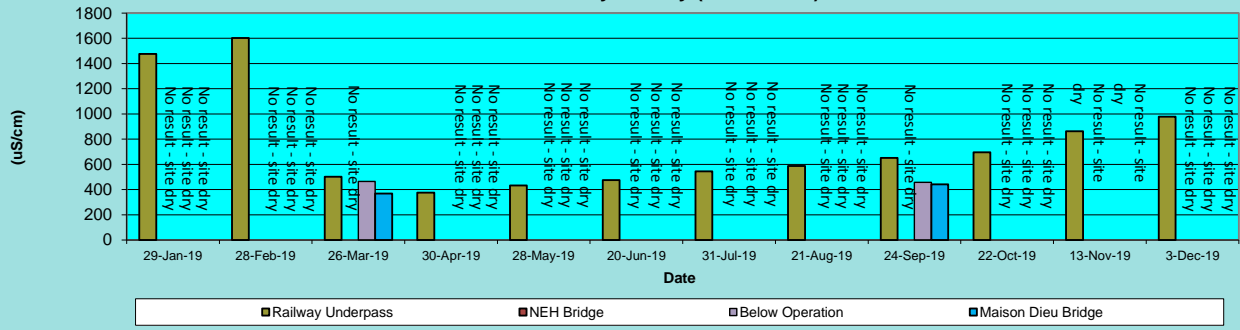
			Published: Sampled: Obtained:	4 February 2019 22 January 2019 25 January 2019	15 March 2019 26 February 2019 15 March 2019	9 April 2019 20 March 2019 9 April 2019	13 May 2019 16 April 2019 10 May 2019	6 June 2019 16 May 2019 23 May 2019	9 July 2019 19 June 2019 26 June 2019
Sampling Point	Monitoring Location	Pollutant	Unit	JANUARY Measurement	FEBRUARY Measurement	MARCH Measurement	APRIL Measurement	MAY Measurement	JUNE Measurement
11	W1	Conductivity	uS/cm	1,466	<i>No result site dry</i>	328	356	413	487
		pH	pH	7.2		6.9	6.8	7.2	7.8
		Total dissolved solids	mg/l	1,130		446	322	843	419
		Total suspended solids	mg/l	40		40	9	9	28
12	W3	Conductivity	uS/cm	<i>No result site dry</i>	<i>No result site dry</i>	241	266	346	<i>No result site dry</i>
		pH	pH			6.1	6.2	7	
		Total dissolved solids	mg/l			272	310	632	
		Total suspended solids	mg/l			27	1	61	
13	W6	Conductivity	uS/cm	<i>No result site dry</i>	<i>No result site dry</i>	2750	3410	3240	<i>No result site dry</i>
		pH	pH			7.6	7.5	7.5	
		Total dissolved solids	mg/l			1700	2120	2190	
		Total suspended solids	mg/l			10	6	18	

			Published: Sampled: Obtained:	9 August 2019 31 July 2019 6 August 2019	2 September 2019 21 August 2019 23 August 2019	2 October 2019 24 September 2019 30 September 2019	4 November 2019 22 October 2019 23 October 2019	4 December 2019 13 November 2019 20 November 2019	16 December 2019 3 December 2019 6 December 2019
Sampling Point	Monitoring Location	Pollutant	Unit	JULY Measurement	AUGUST Measurement	SEPTEMBER Measurement	OCTOBER Measurement	NOVEMBER Measurement	DECEMBER Measurement
1	Railway Underpass	Conductivity pH Total dissolved solids Total suspended solids	uS/cm pH mg/l mg/l	544 8.3 444 8	587 8.4 364 7	651 8.2 366 6	695 9.3 456 7	863 8.6 560 <5	978 8.4 636 32
2	NEH Bridge	Conductivity pH Total dissolved solids Total suspended solids	uS/cm pH mg/l mg/l	No result site dry	No result site dry	No result site dry	No result site dry	No result site dry	No result site dry
10	Below Operation	Conductivity pH Total dissolved solids Total suspended solids	uS/cm pH mg/l mg/l	No result site dry	No result site dry	457 8.1 268 11	No result site dry	No result site dry	No result site dry
3	Maison Dieu Bridge	Conductivity pH Total dissolved solids Total suspended solids	uS/cm pH mg/l mg/l	No result site dry	No result site dry	441 6.7 305 14	No result site dry	No result site dry	No result site dry
4	CWD1	Conductivity pH Total dissolved solids Total suspended solids	uS/cm pH mg/l mg/l	245 8.0 197 3	258 8.4 172 4	261 8.7 173 2	266 9.5 192 4	270 10.1 153 6	312 10.3 173 8
5	CWD2	Conductivity pH Total dissolved solids Total suspended solids	uS/cm pH mg/l mg/l	408 9.2 296 3	429 8.6 246 2	450 9.0 267 3	486 9.7 299 5	556 9.5 297 7	624 9.7 173 8
7	CWD6	Conductivity pH Total dissolved solids Total suspended solids	uS/cm pH mg/l mg/l	468 8.4 331 11	515 8.3 446 17	470 8.8 274 15	509 9.2 304 7	516 9.9 294 6	548 9.8 352 7
8	DWD1	Conductivity pH Total dissolved solids Total suspended solids	uS/cm pH mg/l mg/l	7,480 8.6 5,550 5	7,780 8.5 5,790 6	8,040 8.3 5,700 1	8,160 8.3 6,090 8	9,340 8.5 6,390 4	9,130 8.7 6,560 9
9	DWD2	Conductivity pH Total dissolved solids Total suspended solids	uS/cm pH mg/l mg/l	7,780 8.6 5,790 30	8,030 8.4 6,140 34	8,010 8.3 5,670 9	8,240 8.2 6,060 25	9,630 8.4 6,610 52	9,740 8.6 7,050 31
6	DWD4	Conductivity pH Total dissolved solids Total suspended solids	uS/cm pH mg/l mg/l	7,530 8.4 5,680 6	7,850 8.3 6,270 21	7,980 8.1 5,670 3	7,960 8.1 5,950 8	9,010 8.4 6,170 4	9,270 8.9 6,630 9

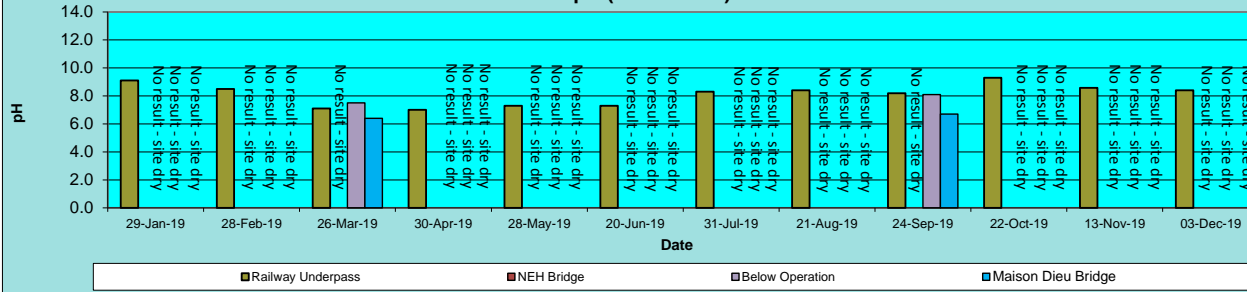
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Sampling Point	Monitoring Location	Pollutant	Unit	JULY Measurement	AUGUST Measurement	SEPTEMBER Measurement	OCTOBER Measurement	NOVEMBER Measurement	DECEMBER Measurement
11	W1	Conductivity pH Total dissolved solids Total suspended solids	uS/cm pH mg/l mg/l	575 7.0 471 54	591 7.0 781 32	562 7.7 591 77	1160 7.3 818 28	No result site dry	
12	W3	Conductivity pH Total dissolved solids Total suspended solids	uS/cm pH mg/l mg/l	No result site dry	No result site dry	No result site dry	No result site dry	No result site dry	
13	W6	Conductivity pH Total dissolved solids Total suspended solids	uS/cm pH mg/l mg/l	No result site dry	No result site dry	3700 7.7 2480 34	No result site dry	No result site dry	



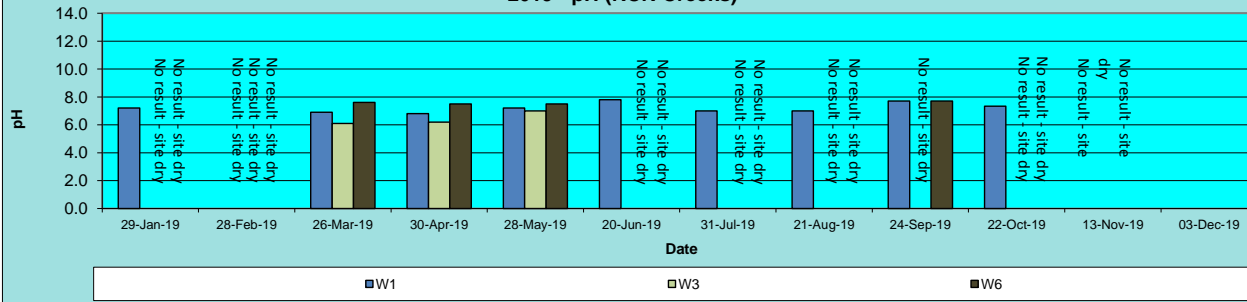
### Rix's Creek South Water Quality Analysis 2019 - Conductivity/Salinity (Rix's Creek)

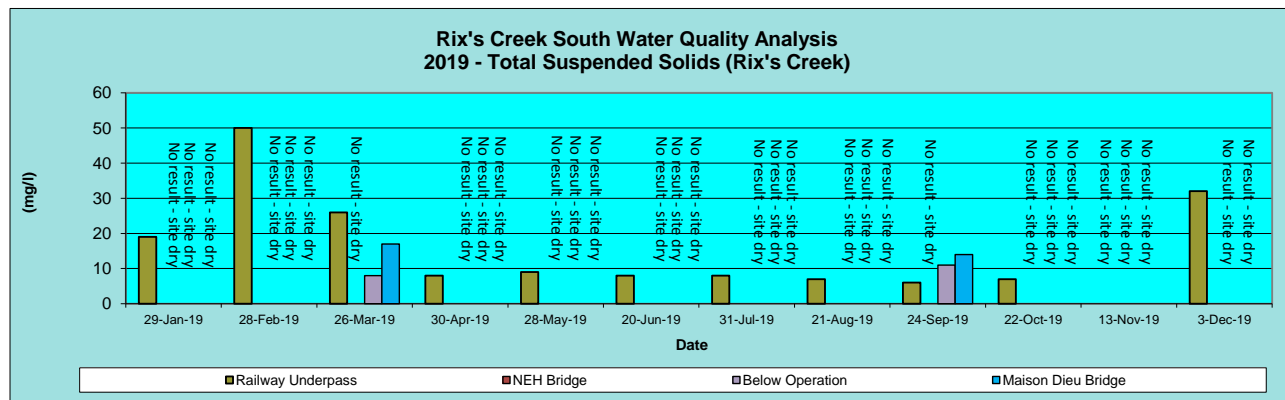
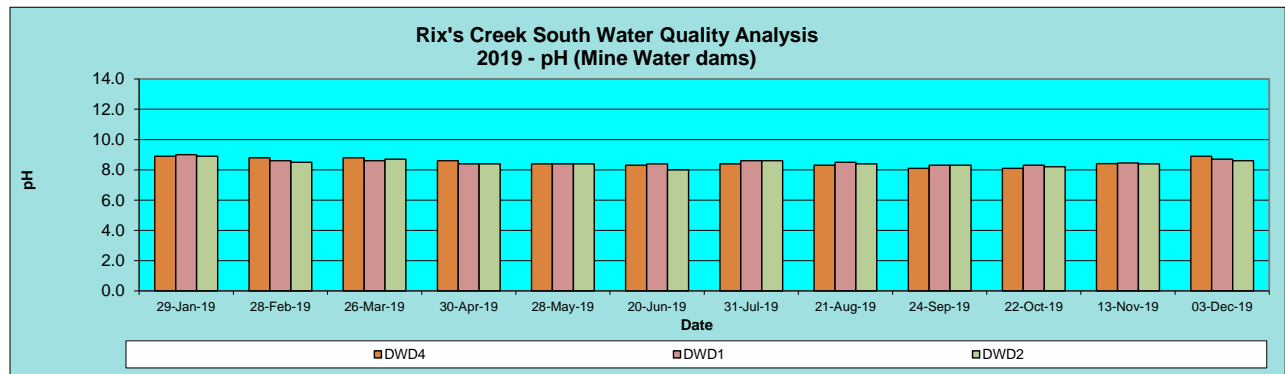
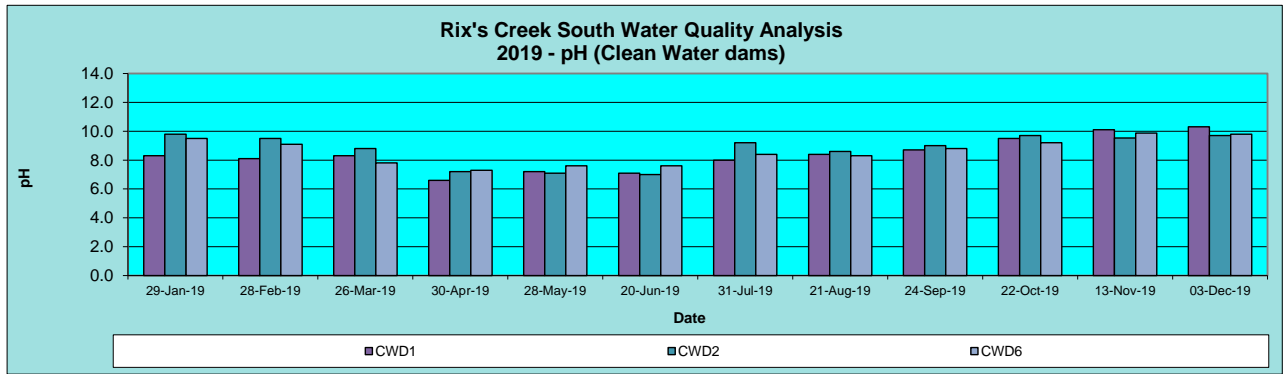


### Rix's Creek South Water Quality Analysis 2019 - pH (Rix's Creek)

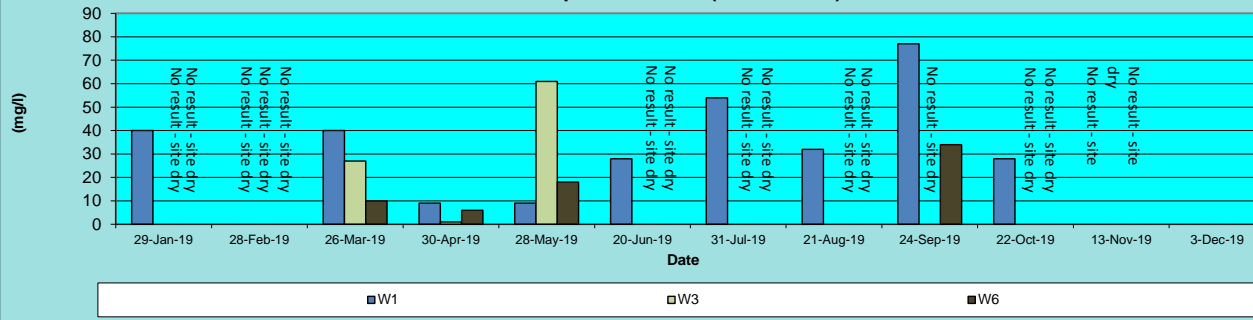


### Rix's Creek North Water Quality Analysis 2019 - pH (RCN Creeks)

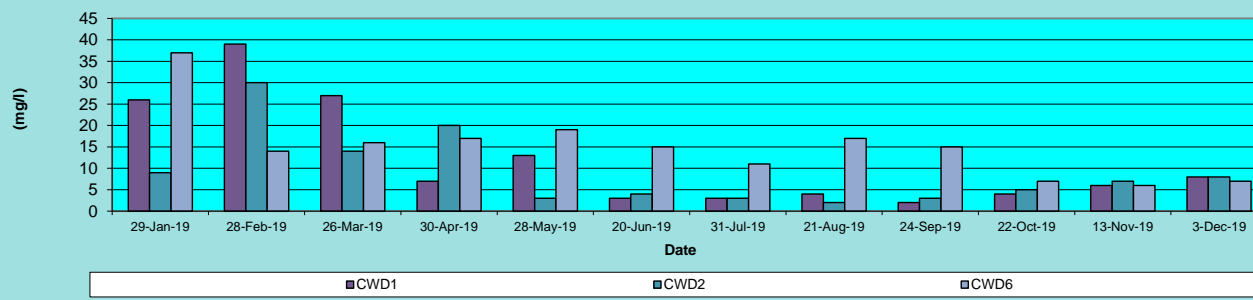




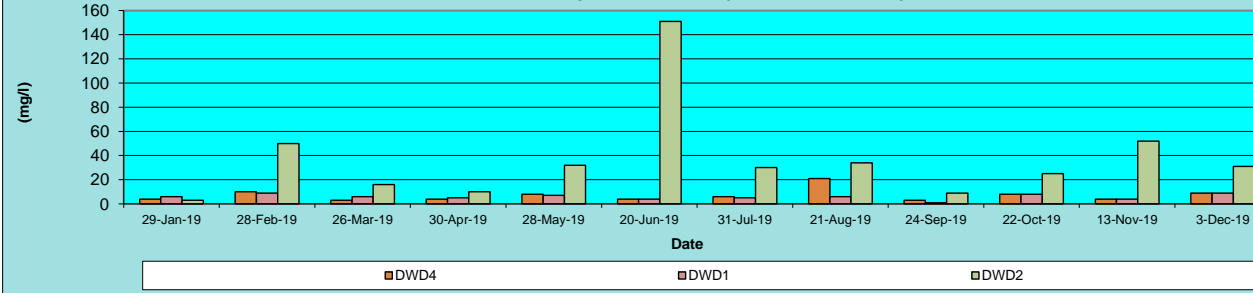
**Rix's Creek North Water Quality Analysis  
2019 - Total Suspended Solids (RCN Creeks)**



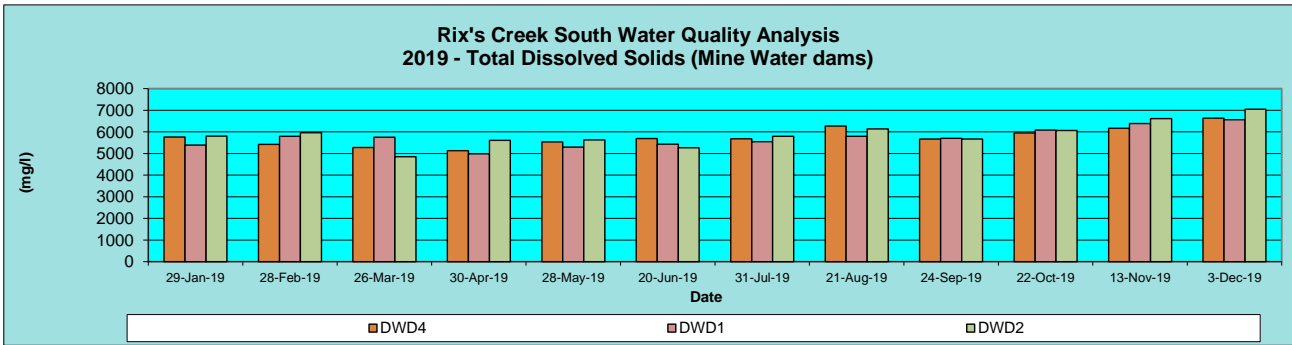
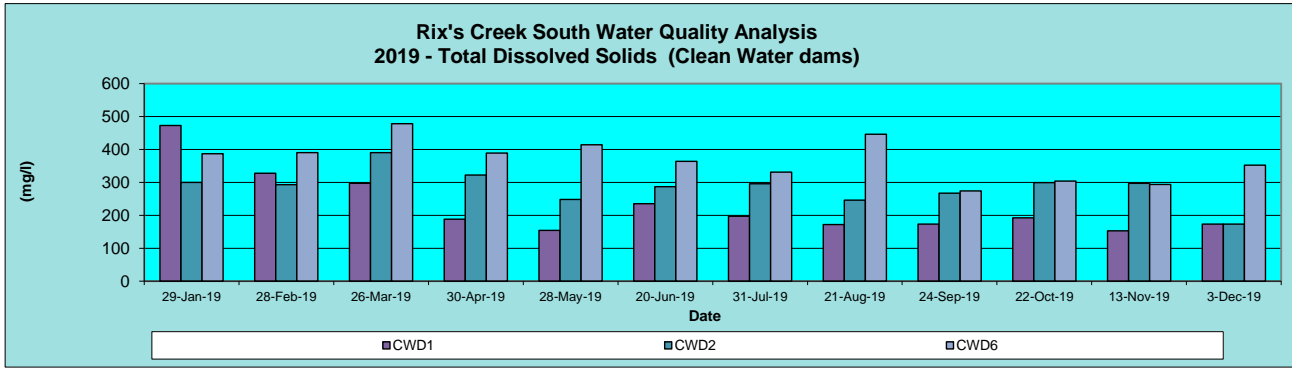
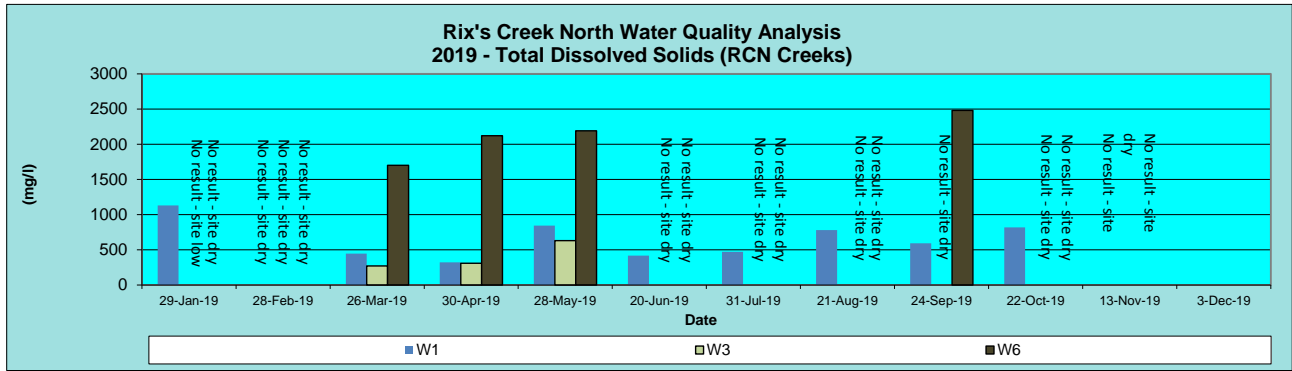
**Rix's Creek South Water Quality Analysis  
2019 - Total Suspended Solids (Clean Water dams)**



**Rix's Creek South Water Quality Analysis  
2019 - Total Suspended Solids (Mine Water dams)**







**Rix's Creek South Water Quality Analysis  
2019 - Total Dissolved Solids (Rix's Creek)**

