

LEG STREAMWATCH MONITORING RESULTS 2006/2024

- Exceeds Trigger Value of 300 EC for Electrical Conductivity compliance with SCA Water Quality Monitoring Program.
- Exceeds WHO and generally accepted ADWG upper limit of 800 EC for salinity in drinking water.
- Exceeds WHO/ANZECC (2000) upper limit of 1500 EC for salinity above which adverse biological impacts may occur.
- Exceeds limit of LEG's testing equipment for salinity (>1999 $\mu\text{S}/\text{cm}$ for ECScanLow meter).
- Exceeds ANZECC (2000) Water Quality Guideline upper limit for pH (8), Turbidity (25 NTU), and/or Available Phosphate (0.14 mg/L), DO >6mg/l, >80-90%.

Site	Location	Date	Dissolved Oxygen mg/l	Dissolved Oxygen %	Temp °C	pH	Electrical Conductivity $\mu\text{S}/\text{cm}$	Turbidity NTU	Available Phosphate ppm	Comments
1	Coxs River headwaters, Ben Bullen State Forest. Permanent waterhole 2-3km below start of Coxs River. -33.305571° 150.097151° Altitude: 945.47m	19/10/06	2.7	38	13	5	30	<10	-	
		3/11/06	3.4	32	13	6	30	10	-	
		23/11/06	3.1	30	16	6	30	10	0.07	
		28/12/06	2.7	31	23	6	40	15	0.05	
		24/1/07	0.08	10	20	6	40	30	0.04	38mm recent rain
		12/4/07	2.4	23	16	6	50	20	0.02	
		17/5/07	2.3	20	11	6	30	<10	0.02	3mm recent rain
		18/6/07	3.8	33	9	6	120	<10	0.04	115mm rain during the month
		18/7/07	9.3	77.4	7.9	5.66	35	0	-	SCA Sampling Data. Flowing, clear
		28/7/07	6.1	50	7.5	6	50	<10	0.02	Flowing, clear, frog calls
		27/8/07	6.0	52	8.5	6	40	<10	0.02	25mm recent rain, flowing, Frog calls
		24/9/07	4.1	36	8	6	50	<10	0.01	Flowing, clear, 700EC downstream
		11/10/07	-	-	12	6	40	<10	-	Flowing, saw a big Black Snake
		29/10/07	4.7	50	14.5	6	40	<10	0.01	Flowing, lots Frog calls
		4/11/07	-	-	-	-	30	10	-	Turbidity after 50mm storm overnight
		30/11/07	3.8	39	16	6	40	<10	0.00	150mm Nov, tea-tree colour, flowing
		31/12/07	3.2	40	21.5	5.5	40	<10	0.03	Flowing, EC560 2km downstream
		28/1/08	3.4	36	18	5.5	40	<10	0.02	Flowing, EC480 2km downstream
		2/3/08	4.3	41	13	5.5	40	<10	0.04	71 mm rain, EC730 2km downstream
		1/4/08	4.2	42	14	6	40	<10	0.03	Flowing, EC1050 1km downstream
29/5/08	3.6	30	6.5	5.5	30	<10	0.01	15mm o'nite, flowing, EC960 1km downst		
30/7/08	4.9	58	5.5	6	40	<10	-	Flowing, frog calls, tannin stained		
30/9/08	2.4	20	10	5.5	40	<10	0.06	Frog calls, Boobook Owl, Wood-duck		
31/10/08	3.5	35	14.5	5.5	40	<10	0.01	Flowing, tea-tree stain, 30mm rain		

25/1/09	1.8	16	18.5	5.5	50	15	0.00	Flowing, Tadpoles, tannin stained
25/2/09	1.9	20	17.5	5.5	50	<10	0.02	Flowing, fewer Tadpoles, tannin
30/3/09	1.2	12	15	5.5	50	<10	0.04	Slight flow, Tea-stained, Frog calls
29/4/09	1.7	15	10.5	5.5	40	15	-	Slight flow, Tea-stained, murky
31/5/09	2.6	23	9.5	5.5	40	10	-	Flowing, slightly murky
28/6/09	-	-	7.5	5.5	40	<10	-	Flowing, clear, some Frog calls
25/7/09	-	-	7	5.5	40	<10	-	Flowing, frog calls, a Gudgeon
31/8/09	2.7	23	8	5	40	<10	0.09	Flowing, some Frog calls
30/9/09	2.8	25	10	5.5	50	<10	0.07	Flowing, bit murky, some Frog calls
6/11/09	2.6	25	14	5.5	40	10	0.12	Not flowing, tea-tree & iron stained
12/12/09	3.3	33	16	5.5	40	<10	-	Not flowing, downstream bridges dry
10/2/10	3.1	33	18	5.5	50	<10	-	No flow. 60mm rain, bridges low
12/3/10	4.0	4.1	16	5.5	50	10	0.00	Flowing. EC340 1k down, 540 2k
5/7/10	6.7		4.5	6.0	40	>10	0.09	Flowing. EC330 1k, 530 2k, lots rain
4/9/11	-	-	-	-	30	-	-	Flowing
26/9/12	-	-	-	-	30	-	-	
30/11/13	-	-	-	-	40	-	-	
11/10/14	-	-	-	-	40	-	-	
15/5/15	-	-	-	-	30	-	-	1 st bridge 90, 2 nd bridge 80
12/1/16	-	-	-	-	30	-	-	
09/02/16	-	-	-	-	30	-	-	Flowing, 200mm rain in January
09/03/16	-	-	-	-	40	-	-	Only just flowing
10/04/16	-	-	-	-	30	-	-	
3/05/16	-	-	-	-	40	-	-	
1/10/17	-	-	-	-	40	-	-	Muddy by 4WDs. Buff-banded Rail
23/2/18	-	-	-	-	40	-	-	
1/4/18	-	-	-	-	40	-	-	Water level down, cars driving thru
17/5/2018	-	-	-	-	40	-	-	Water level very low
21/8/18	-	-	-	-	40	-	-	V. low. 70 where 4WDs driving thru
20/9/18	-	-	-	-	40	-	-	Low
09/05/19	-	-	-	-	60	-	-	<i>Grevillea acanthifolia</i> 's have died
1/11/2019	-	-	-	-	70	-	-	Tested during LLS working bee
4/12/2019	-	-	-	-	70	-	-	Lowest water level since tests began
19/02/2020	-	-	-	-	80	-	-	Long Swamp backburned by RFS on 17/12/2019. Over 100mm rain since. Water level almost normal, black with bushfire ash. 2 ducks.

		19/8/2020	-	-	-	-	40	-	-	Water level high
		19/1/2021	-	-	-	-	30	-	-	Flowing
		12/12/2021	-	-	-	-	40	-	-	Giant Dragonfly downstream + <i>Orthetrum caledonicum</i> . <i>Austrolestes leda</i> . <i>Synthemis eustalacta</i>
		28/4/2022	-	-	-	-	40	-	-	<i>Hypoxis hygrometrica</i> ssp <i>vilosisejala</i>
		10/12/2022	-	-	-	-	40	-	-	Flowing. <i>Utricularia dichotoma</i>
		21/1/2023	-	-	-	-	40	-	-	Full. <i>Synthemis eustalacta</i>
		28/9/2023	-	-	-	-	40	-	-	Water level near top. Numerous <i>Paralucia aurifer</i> on <i>Bursaria spinosa</i> ssp <i>lasiophylla</i> downstream
		4/05/2024	-	-	-	-	40	-	-	Tested closer to Wolgan Rd as Long Swamp Tr closed for several months
		27/07/2024	-	-	-	-	70	-	-	15mm rain o'night. 60 at new bridge
2	Kangaroo Creek, Wolgan Road, Angus Place (downstream Angus Place Colliery) -33.349592° 150.099018° Altitude: 915.28m	19/10/06	6.9	69	19	8	880	<10	-	
		5/11/06	9.6	96	15	9	1100	10	0.02	30mm rain
		23/11/06	5.3	61	25	8	980	<10	-	
		28/12/06	5.9	67	21	8	1030	<10	0.03	
		26/1/07	3.7	41	21	8	1060	<10	-	38 mm rain
		12/4/07	5.7	60	18	9	980	<10	0.04	
		15/5/07	6.85	83.6	16.58	8.67	986	20.0	<0.005	SCA Field Data
		17/5/07	6.1	60	15	8.5	900	80	0.05	Water is grey/black
		1/6/07	-	-	-	-	970	-	-	48mm rain, grey
		14/6/07	-	-	-	-	250	-	-	88mm rain
		30/6/07	5.3	46	8	7.5	390	10	0.01	39mm, no frogs
		28/7/07	5.6	49	9	8	620	20	0.06	Black muck on creek bed
		17/8/07	-	-	9	-	570	<10	-	8mm rain, flowing, black creek bed
		27/8/07	6.3	57	11	8	510	15	0.04	25mm rain, flowing, black creek bed
		7/9/07	-	-	10	8	570	10	-	Flowing, black creek bed, no frogs
		24/9/07	6.1	55	10	8	670	200	0.08	V. dirty black, no frog calls
		11/10/07	-	-	14	8	710	<10	-	Black silt on creekbed
		29/10/07	5.8	60	17	8	670	10	0.05	29mm rain. No frog calls
		4/11/07	-	-	-	-	440	60	-	Turbidity after 50mm storm overnite

30/11/07	5.4	55	16.5	7.5	300	15	0.01	150mm rain Nov, rusty colour
31/12/07	4.8	54	20	7.5	560	20	0.03	Black silt on creekbed
28/1/08	5.0	53	17.5	8	650	<10	0.03	v. slow flow, no frogs, clear
2/3/08	6.3	59	12	8	690	<10	0.01	71 mm rain during week
2/4/08	6.3	60	13.5	8	830	<10	0.08	Flowing, black coal fines on creekbed
29/5/08	6.8	56	7.5	8	870	<10	0.04	15mm rain o'nite, slight flow
30/7/08	5.7	50	9.5	8	880	<10	-	Flowing, warmer than other creeks today
30/9/08	5.6	54	13	8	840	<10	0.04	Flowing, clear. 70 - 80mm rain Septembe
31/10/08	5.0	58	21	8	850	10	0.07	Flowing, slightly murky
25/1/09	5.1	58	20	8	820	30	0.08	Higher flow than usual, murky
25/2/09	5.5	60	19.5	8.5	820	20	0.05	Flowing, slightly grey/black, 30mm rain
1/4/09	5.9	62	18	8	810	80	-	20mm o'nite, v. grey black
29/4/09	6.3	61	14	8	880	10	-	Flowing, clear
31/5/09	6.6	63	13.5	8.5	900	15	-	Flowing, grey/green, warmer than Coxs
28/6/09	-	-	11	8.5	1020	15	-	Flowing, floating algae/ affected turbidity
25/7/09	-	-	8	8	990	10	-	Flowing, floating algae/detritus
31/8/09	5.9	54	11	8.5	920	<10	0.09	Clear, pond has been cleaned out
30/9/09	5.5	56	16	8.5	1020	<10	0.11	Clear, slight flow
6/11/09	5.4	55	16.5	8	1090	<10	0.11	Clear, EC highest in 3 yrs (since 5/11/06)
12/12/09	5.7	64	21	8.5	940	<10	-	Clear flowing well
10/2/10	5.0	57	22	8.5	840	<10	-	60mm rain over w'end, recent roadworks
12/3/10	6.7	69	16.5	8	950	10	0.01	Flowing, slightly milky
17/2/10	-	-	-	-	-	-	-	EPA Pollution Reduction Notice to Angus Place Mine to reduce 10 t salt/yr dumped via LDP1 into Kangaroo Ck
9/5/11	-	-	-	-	-	-	-	EPA agree to Angus preferred option to pipe LDP1 water to Wang power station (not installed until May 2021)
26/9/12	-	-	-	-	1160	-	-	Flowing
15/5/15	-	-	-	-	770	-	-	
12/1/16	-	-	-	-	1060	-	-	Flowing
9/3/16	-	-	-	-	1070	-	-	
10/4/16	-	-	-	-	1080	-	-	
3/05/16	-	-	-	-	1090	-	-	Flowing
17/04/18	-	-	15	-	1030	-	-	High flow
10/6/2018	-	-	-	-	1040	-	-	High flow
21/8/18	-	-	-	-	300	-	-	Temp Desal Plant at Angus Place

										commenced (Note: approval to dump waste brine back into underground mine workings???)
		20/9/18	-	-	-	-	270	-	-	Very high flow
		7/8/2019	-	-	-	-	300	-	-	During tour of 900 Area
		4/12/2019	-	-	-	-	290	-	-	High flow
		4/1/2020	-	-	-	-	-	-	-	No flow
		19/2/2020	-	-	-	-	720	-	-	Flowing again. Catchment burnt 12-16 Dec 2019. 100+mm rain since
		14/3/2020	-	-	-	-	420	-	-	Flowing
		26/5/2021	-	-	-	-	90	-	-	LDP001-Mt Piper pipe operational
		28/4/2022	-	-	-	-	110	-	-	Low flow
		17/4/2023	-	-	-	-	90	-	-	Flowing well
		27/9/2023	-	-	-	-	110	-	-	Barely flowing
		4/04/2024	-	-	-	-	80	-	-	Slight flow
		4/05/2024	-	-	-	-	60	-	-	Lowest ever! Above average flow
		27/7/2024	-	-	-	-	110	-	-	Flowing, clear
3	Sawyer's Swamp Creek, Wolgan Road, Lidsdale Downstream Kerosene Vale Ash Repository (KVAR), and Springvale LDP009 -33.380693 150.086253 Altitude: 894.57m Recent (2023) small sign at this site says – <i>GPM EPL Water Monitoring Location WX7</i>	19/10/06	5.7	57	16	7	1120	15	-	
		5/11/06	7.4	70	13	7	1370	<10	0.05	30mm rain
		23/11/06	4.6	50	19	7	1270	30	-	
		28/12/06	4.1	42	17	7.5	1380	<10	0.03	
		26/1/07	4.4	50	21	7	1400	<10	-	38 mm rain
		12/4/07	5.0	47	13	7	1370	<10	0.04	
		26/4/07	-	-	-	-	1510	-	-	1mm rain
		29/4/07	-	-	-	-	1460	-	-	18mm rain
		3/5/07	-	-	-	-	1510	-	-	
		15/5/07	7.57	81.3	10.65	5.35	1600	2.1	<0.005	SCA Field Data
		26/5/07	-	-	-	-	1280	-	-	48mm rain
		14/6/07	-	-	-	-	1020	-	-	88mm rain
		30/6/07	5.9	50	7	7	690	10	0.02	4mm, no frogs
		28/7/07	6.6	53	6	7	770	<10	0.03	Bleached rusty look to creek bed
		27/8/07	6.4	57	9.5	7	740	<10	0.06	25mm rain, no frogs, rusty creekbed
		7/9/07	-	-	8	-	830	<10	-	Flowing, no frog calls
		24/9/07	6.3	54	8.5	7	910	<10	0.06	Possibly Gambusia, no frog calls
		11/10/07	-	-	13	7	1090	<10	-	Possibly Gambusia, no frog calls
		30/10/07	5.0	50	14.5	7	1070	<10	0.02	Possibly Gambusia, no frog calls

4/11/07	-	-	-	-	-	200	-	Turbidity after 50mm storm overnight
30/11/07	5.2	51	15.5	7	650	30	0.01	150mm rain Nov, milky/grey
31/12/07	5.3	60	19.5	7	770	<10	0.05	Slow flow, no frogs
28/1/08	5.3	56	17.5	7	580	<10	0.04	Flowing, clear, Gambusia, a yabbie
2/3/08	5.6	54	13	6.5	730	<10	0.09	71 mm rain during week
2/4/08	6.6	62	12	7	770	<10	0.02	Possibly Gambusia
29/5/08	6.4	53	7.5	7	1110	<10	0.01	15mm rain o'nite, flowing, clear
30/7/08	7.1	54	4	6.5	1210	<10	-	Clear, flowing, rusty creekbed, no frogs
30/9/08	5.8	52	10	7	1020	<10	0.03	Flowing, clear, no frogs
31/10/08	5.0	52	16.5	7	950	<10	0.05	Flowing, clear
25/1/09	4.4	48	18	7	960	<10	0.06	Flowing, clear
25/2/09	5.6	60	19.5	8.5	930	30	0.07	Springvale Transfer has begun , muddy
3/3/09	-	-	19.5	-	940	30	-	Twice the usual flow, grey muddy
1/4/09	5.5	59	19	8.5	940	10	-	Much higher flow, 20mm o/nite, grey
29/4/09	6.6	68	16.5	8.5	1010	150	-	V. muddy, v. high flow. Photo taken.
31/5/09	6.3	62	15	8.5	1080	15	-	Grey, 6 ⁰ warmer than other creeks today
28/6/09	-	-	15.5	8.5	1140	15	-	Grey, 7-8 ⁰ warmer than other creeks
25/7/09	-	-	13	8.5	1110	<10	-	Clearer than usual, no frog calls
31/8/09	5.2	50	14	9	1020	<10	0.08	Clearer than usual, feels warm
30/9/09	5.8	52	10.5	8	1240	<10	0.08	2/3 <u>less flow</u> than last 8 months
6/11/09	5.0	49	14	7	1450	<10	0.08	v. low flow, clear, EC highest in 2.4 yrs
12/12/09	4.8	50	17	6.5	1530	<10	-	v. low flow, clear, EC highest ever
11/2/10	5.1	55	19	7	710	<10	-	60mm rain over w'end. Flowing, clear
12/3/10	7.4	72	14	6	1360	10	0.02	Monitoring site fenced, tested Wolgan Rd
26/9/12	-	-	-	-	860	-	-	Flowing
12/1/16	-	-	-	-	1320	-	-	High flow
9/3/16	-	-	-	-	1270	-	-	
10/4/16	-	-	-	-	1270	-	-	
3/05/16	-	-	-	-	1250	-	-	
2/5/16	-	-	-	-	1130	-	-	Very high flow, grey
1/9/17	-	-	-	-	1290-1300	-	-	1290 old metre, 1300 new metre
17/4/18	-	-	23.2	-	1250	-	-	
17/5/2018	-	-	-	-	1250	-	-	
21/8/18	-	-	-	-	1230	-	-	
20/9/18	-	-	-	-	1230	-	-	
30/7/2019	-	-	-	-	-	-	-	Not flowing. LDP9 stopped end June
7/8/2019	-	-	-	-	-	-	-	Not flowing

		4/12/2019	-	-	-	-	-	-	-	Not flowing
		4/1/2020	-	-	-	-	-	-	-	Not flowing
		10/2/2020	-	-	-	-	>2000	-	-	Flowing, approx. 50mm rain
		14/2/2020	-	-	-	-	>2000	-	-	Flowing, rotten egg gas odour
		19/2/2020	-	-	-	-	>2000	-	-	Flowing. 100mm rain past 2 weeks
		28/2/2020	-	-	-	-	1870	-	-	Flowing, rotten egg gas odour
		2/3/2020	-	-	-	-	-	-	-	Not flowing
		14/3/2020	-	-	-	-	1780	-	-	Flowing 10am. Looks like it may have had higher flow overnight. No rain.
		24/3/2020	-	-	-	4.5	1850	-	-	<i>Hunter Enviro Centre Monitoring</i>
		26/5/2021	-	-	-	-	250	-	-	Minor flow
		28/4/2022	-	-	-	-	310	-	-	Low flow
		27/9/2023	-	-	-	-	350	-	-	Barely flowing
		4/04/2024	-	-	-	-	220	-	-	Flowing
		4/05/2024	-	-	-	-	120	-	-	Lowest EC ever. More flow than usual
		26/7/2024	-	-	-	-	190	150-200	-	Very turbid, high flow
		23/9/2024	-	-	-	-	170	-	-	Low flow
4	Springvale Creek, Castlereagh Hwy, Wallerawang (downstream from Springvale Colliery) -33.401884 150.094054 Altitude: 885.82m	19/10/06	6.8	64	18	9	1010	20	-	Flowing well
		5/11/06	8.6	86	14	8	1080	15	-	Flowing well
		23/11/06	2.5	30	31	9	1230	80	-	Very muddy
		28/12/06	7.2	81	21	9	1180	30	0.04	Not flowing
		24/1/07	5.6	64	21.5	8	780	60	0.16	38mm rain
		12/4/07	9.4	96	15.5	9	1010	20	0.02	Water dirty
		15/5/07	8.15	93.7	12.79	8.10	982	12.7	0.02	SCA Field Data
		17/5/07	6.6	63	13	8.5	860	15	0.07	18mm rain, water grey, no frogs
		30/6/07	7.0	57	7.5	7	360	20	0.06	200mm+ June
		28/7/07	9.1	80	8.5	7.5	350	20	0.04	Green algae on creekbed
		28/8/07	10.9	99	10	9.5	310	20	0.01	25mm rain. Green algae. No frogs
		24/9/07	9.7	93	13	8	290	15	0.06	Green/milky colour, odour, algae
		30/10/07	6.5	68	16.5	7	320	20	0.08	29mm rain, less algae than usual
		4/11/07	-	-	-	-	340	100	-	Turbidity after 50mm storm overnite
		30/11/07	4.7	49	17	6.5	290	30	0.07	150mm rain Nov, muddy, water weed
		31/12/07	5.8	66	20.5	7.5	320	<10	0.06	Lots water weed, looks stagnant
		28/1/08	4.7	52	19	7	380	15	0.07	No flow, muddy, weedy, no frogs
		2/3/08	6.4	62	13	7	390	10	0.06	71 mm rain during week, weedy
		1/4/08	5.0	49	13	7	250	15	0.09	Muddy, weedy, barely flowing

		29/5/08	5.9	50	8	7	200	10	0.03	15mm rain o'nite, slight flow, weedy
		31/7/08	7.8	59	4	7	410	<10	-	Slight flow, not as turbid or weedy
		30/9/08	6.6	64	14	7.5	440	<10	0.09	Slight flow, algae & weeds, no frogs
		31/10/08	8.6	100	21	8	470	15	0.09	Slight flow, weedy
		28/1/09	6.2	68	19	8	810	30	0.07	Much higher flow, yellow muddy, Tortoise
		1/3/09	3.3	30	16	8.5	820	50	0.11	Flowing, milky-yellow-clayey colour
		30/3/09	7.8	77	14.5	8	860	50	0.10	Highest flow yet, yellow clayey colour
		29/4/09	8.1	72	10	8.5	610	20	-	Slight flow, not as muddy as last month
		31/5/09	6.4	55	9	7	560	20	-	Muddy yellow, stringy algae, no flow
		28/6/09	-	-	8	7	550	20	-	Green-grey, v. slight flow, some frog calls
		28/7/09	-	-	8	6.5	490	20	-	Flowing, yellow muddy
		1/9/09	6.8	56	7	7.5	490	10	0.07	Murky, weedy
		30/9/09	7.9	71	10.5	8.5	960	10	0.10	Flowing, murky, weedy, EC is high
		7/11/09	5.6	56	15.5	8	990	<10	0.28	Murky but clear, EC highest in 2.5 yrs
		12/12/09	7.1	73	17	8	990	10	-	Highest flow ever, clear, weedy
		11/2/10	7.4	80	19	8.5	890	15	-	60mm rain over w'end, stringy algae
		12/3/10	9.2	91	15	8	940	<10	0.03	Flowing, green algae on bottom, weedy
		4/04/2024	-	-	-	-	390	-	-	Low flow
5	Wangcol Creek Castlereagh Hwy, Blackmans Flat - downstream Mt Piper Power Station, fly-ash & Brine disposal areas -33.350605 150.042022 Altitude: 921.16m	19/10/06	4.3	43	20	7	1460	40	-	
		4/11/06	4.6	46	16.5	8	1430	50	-	30mm rain
		18/11/06	6.7	70	18	7	230	20	-	Delta freshwater discharge
		25/1/07	4.9	63	28	7	280	60	0.06	38mm rain
		4/2/07	-	-	-	-	390	-	-	
		12/4/07	5.7	58	18	8	570	15	0.00	
		21/4/07	-	-	-	-	580	-	-	
		22/4/07	5.5	60	19	8	>1999	20	0.16	
		23/4/07	-	-	-	-	>1999	-	-	2.5mm rain
		24/4/07	-	-	-	-	>1999	-	-	
		25/4/07	-	-	-	-	>1999	-	-	
		26/4/07	-	-	-	-	>1999	-	-	1mm rain
		27/4/07	-	-	-	-	>1999	-	-	
		29/4/07	-	-	-	-	>1999	-	-	18mm rain
		30/4/07	-	-	-	-	>1999	-	-	
		1/5/07	-	-	-	-	>1999	-	-	
		3/5/07	-	-	-	-	1760	-	-	
		6/5/07	-	-	-	-	1600	-	-	

15/5/07	7.67	85.8	12.49	7.48	600	23.5	<0.005	SCA Field Data
17/5/07	-	-	-	-	610	-	-	3mm rain, v.muddy
26/5/07	-	-	-	-	310	-	-	48mm rain, v. muddy
30/6/07	7.6	63	7	7.5	250	15	0.06	34mm, muddy, 200mm+June
19/7/07	-	-	-	-	460	40	-	v. muddy grey, no frog calls
29/7/07	6.6	53	6	7	530	10	0.04	Slightly muddy grey, no frog calls
28/8/07	6.7	61	12	7	420	60	0.02	25mm rain, v. muddy, no frog calls
27/9/07	4.8	48	13	7	520	60	0.04	v. dirty brown, no frog calls
11/10/07	-	-	15	6	610	100	-	v. dirty grey/brown
30/10/07	6.3	67	17.5	7	440	30	0.06	29mm rain. dirty brown. No frog calls
4/11/07	-	-	-	-	-	400	-	Turbidity after 50mm storm overnite
30/11/07	8.1	86	17.5	7	170	200	0.01	150mm rain Nov, v.dirty brown/grey
31/12/07	3.2	35	19	6.5	230	60	0.07	Muddy brown, no frogs
20/1/08	-	-	17	7	190	400	-	v. muddy after 70mm rain o'nite
28/1/08	6.9	73	17.5	7	250	300	0.12	v. muddy, light flow, no frogs
2/3/08	7.7	82	18	7	220	300	0.02	v. muddy, 71 mm rain during week
2/4/08	6.8	67	14	7	300	80	0.01	v. muddy
29/5/08	6.8	58	8	7	340	80	0.02	15mm rain o'nite, very muddy
30/7/08	7.0	57	6	7	520	80	-	v. muddy, flowing, no frogs
30/9/08	5.8	54	12	7	350	80	0.03	v. muddy, flowing, no frogs
31/10/08	4.7	50	17	6.5	330	80	0.09	v. muddy, flowing
25/1/09	4.1	48	20	7	500	40	0.05	v. muddy, flowing
25/2/09	5.7	64	20	7	280	200	0.00	v. muddy, flowing, 30mm rain 7 days
1/4/09	5.4	55	16	7	410	40	-	v. muddy, flowing, 20mm o/nite
29/4/09	6.5	58	10.5	7	370	20	-	Flowing, muddy but not as bad as before
31/5/09	6.5	56	9	7	480	50	-	Flowing, muddy grey
28/6/09	-	-	7	7	480	60	-	Flowing, muddy grey
28/7/09	-	-	8	7	400	60	-	Flowing, grey muddy
1/9/09	6.2	52	8	7	360	60	0.05	Flowing, v. muddy, no frog calls
30/9/09	6.7	64	13	8	410	30	0.05	No flow, muddy, level lower than usual
6/11/09	5.6	58	17	7.5	410	20	0.15	Grey, muddy, no aquatic life visible
12/12/09	4.6	50	19	7.5	460	40	-	Muddy, low level, not flowing
11/2/10	5.3	58	20	7	240	200	-	60mm rain, V. muddy, flowing
12/3/10	7.3	72	14.5	7	510	100	0.02	V. muddy, flowing
26/9/12	-	-	-	-	540	-	-	V. muddy
12/9/14	-	-	14	7	290	150	-	V. muddy
24/5/15	-	-	-	-	400	-	-	V. muddy

		12/1/16	-	-	-	-	290	-		V. muddy
		09/02/16	-	-	-	-	340	-		V. muddy
		09/03/16	-	-	-	-	450	-		V. muddy
		10/4/16	-	-	-	-	380	-		V. muddy
		3/05/16	-	-	-	-	450	-		Less muddy than usual
		17/5/2018	-	-	-	-	410	-		
		7/8/2019	-	-	-	-	530	-	-	
		4/12/2019	-	-	-	-	440	-	-	
		5/1/2020	-	-	24	-	640	-	-	Very low level, no flow. Very turbid
		28/9/2023	-	-	-	-	610	-	-	Murky
		2/03/2024	-	-	-	-	350	-	-	Turbid
		4/04/2024	-	-	-	-	330	-	-	Grey turbid
		4/05/2024	-	-	-	-	450	-	-	Turbidity not as bad as usual
		26/7/2024	-	-	-	-	410	-	-	Very turbid
6	Nuebeck's Creek (Wangcol Creek), Castlereagh Hwy, Blackman's Flat (downstream Mt Piper Power station) -33.361411 150.058089 Altitude: 906m	19/10/06	4.5	45	17	7	1320	<10	-	
		4/11/06	4.5	45	15	7	1450	<10	-	30mm rain
		18/11/06	4.8	47	15	7	990	<10	0.02	
		31/12/06	5.1	55	19	8	1390	<10	0.02	12mm rain
		25/1/07	4.4	50	23	8	1520	<10	0.05	38mm rain
		12/4/07	3.9	36	15	7	930	<10	0.01	
		23/4/07	5.8	56	14	6	520	15	0.05	2.5mm rain
		24/4/07	-	-	-	-	1230	-	-	
		25/4/07	-	-	-	-	1590	-	-	1mm rain
		26/4/07	2.8	28	13.5	7	1620	<10	0.04	
		27/4/07	-	-	-	-	1610	-	-	
		28/4/07	-	-	-	-	1590	-	-	
		29/4/07	-	-	-	-	1570	-	-	18mm rain
		30/4/07	-	-	-	-	1550	-	-	
		1/5/07	-	-	-	-	1530	-	-	
		3/5/07	-	-	-	-	1540	-	-	
		10/5/07	-	-	-	-	1450	-	-	2mm rain
		15/5/07	5.68	60.2	9.97	7.07	1560	1.6	<0.01	SCA Field Data
		17/5/07	-	-	-	-	1430	-	-	3mm rain
		1/6/07	-	-	-	-	750	-	-	48mm rain, 200m+ June
		14/6/07	-	-	-	-	270	-	-	88mm, v. muddy

30/6/07	6.4	52	7	7	240	30	0.06	30mm, v. muddy
19/7/07	-	-	-	-	360	-	-	Slightly milky, iced over
29/7/07	4.5	36	6.5	6	580	10	0.03	Slight grey/green
17/8/07	-	-	-	-	550	<10	-	8mm rain yesterday
28/8/07	5.5	48	9	6	490	<10	0.02	
27/9/07	4.4	42	11	6	1050	<10	0.03	Clear, possibly Gambusia
30/10/07	4.3	44	16	7	1180	<10	0.03	29mm rain. Slight oil slick, no frogs
4/11/07	-	-	-	-	-	300	-	Turbidity after 50mm storm overnite
30/11/07	4.3	44	16	6.5	270	20	0.03	150mm rain Nov, muddy
31/12/07	2.9	31	19	6	280	<10	0.03	Poss. Gambusia, 2 wood ducks
28/1/08	3.6	38	18	6	260	15	0.06	Gambusia, muddy, no frogs
2/3/08	4.7	46	14	6	260	20	0.05	71 mm rain during week
2/4/08	3.8	36	13	6	350	10	0.05	Muddy, poss. Gambusia
29/5/08	4.8	39	7	6.5	410	<10	0.03	15mm rain o'nite, grey/green
30/7/08	5.1	43	7	6	590	<10	-	Clearer than usual, no frogs
30/9/08	4.7	45	13	6	380	<10	0.05	Possibly Gambusia, no frogs
31/10/08	3.0	34	17	6	380	<10	0.09	Looks clear, Gambusia
25/1/09	2.8	30	20	6	540	<10	0.04	Clear, Gambusia, EastnWaterDragon
25/2/09	4.1	46	20	6.5	280	20	0.07	Yellow-muddy, 30mm rain last 7days
29/4/09	4.8	43	10	6.5	670	<10	-	Flowing, clear
31/5/09	5.7	49	9	6.5	480	<10	-	Reasonably clear, flowing
28/6/09	-	-	8	6	580	<10	-	Flowing, clear, poss. gambusia
28/7/09	-	-	7.5	6	470	10	-	Slightly murky, no fish or macros
1/9/09	6.0	51	8	7	420	10	0.05	Slightly murky
30/9/09	5.1	46	11	7	930	10	0.08	Slight murky, EC higher than usual
6/11/09	3.8	39	16.5	7	1290	10	0.13	EC highest in 2.5yrs (since 3/5/07)
12/12/09	3.8	41	19	7	1370	15	-	Milky, poss. Gambusia
11/2/10	3.4	37	20	6.5	230	15	-	60mm rain, flowing, 2 water dragons
12/3/10	5.4	54	15.5	6	730	<10	0.01	Flowing clear, 1 water dragon
26/9/12	-	-	-	-	830	-	-	Milky-blue, but reasonably clear
24/5/15	-	-	-	-	750 - 900	-	-	750 one spot, 900 another, bluey clear
12/1/16	-	-	-	-	720	-	-	Clear
09/02/16	-	-	-	-	1170	-	-	Clear, <i>NOW Gauge 212055 = 960 ???</i>
9/03/16	-	-	-	-	>1999	-	-	Clear
10/4/16	-	-	-	-	>1999	-	-	Mt Piper ash dump sprinklers going. Salt visible in drain along highway
18/4/16	-	-	-	-	>1999	-	-	Salt still visible, still flowing thru drain

		3/05/16	-	-	-	-	>1999	-	-	Blue/grey colour though clear
		25/2/17	-	-	-	-	>1999	-	-	NOW Gauge 212055 = 1777 ???
		16/10/17	-	-	-	-	>1999	-	-	NOW Gauge 212055 = 1006 ???
		23/11/17	-	-	21.4	7.49	1250	-	-	New meter: TDS 124ppm
		17/4/18	-	-	18.2	-	>1999	-	-	NOW Gauge 212055 = 1,206 ???
		17/5/2018	-	-	-	-	>1999	-	-	Visibly flowing
		4/12/2019	-	-	-	-	>1999	-	-	NOW Gauge 212055 = 2828 at 10:30am 04/12/2019
		4/1/2020	-	-	24	-	>1999	-	-	NOW Gauge 212055: EC @ 25C (uS/cm) = 0 at 12:30 04/01/2020???
		9/2/2020	-	-	-	-	4165.9	-	-	NOW Gauge 212055
		24/3/2020	-	-	-	-	>1999	-	-	Murky
		26/5/2021	-	-	-	-	>1999	-	-	Blue/grey
		28/9/2023	-	-	-	-	>1999	-	-	Blue/grey but clear
		2/11/2023	-	-	11.8	-	2969	-	-	NOW Gauge 212055. 02:45am. Max recorded 4165 EC on 9/2/2020
		2/03/2024	-	-	-	-	1090	-	-	NOW Gauge 212055 = 1249 µS/cm @25C 04:45am. 1st LEG record under 2000 EC since 23/11/2017
		4/04/2024	-	-	-	-	1490	-	-	NOW 212055 = 1266.8 µS/cm 10:45
		4/05/2024	-	-	10.9	-	1200	-	-	NOW 212055 = 1349.3 µS/cm 06:45
		26/7/2024	-	-	8.1	-	1510	-	-	NOW 212055 = 1359.9 uS/cm 16:45 Variable EC readings – 1470-1560
		23/9/2024	-	-	13.2	-	2350.2	-	-	NOW 212055. 12:45
7	Cox's River Maddox Lane, Lidsdale -33.380026 150.079901 Altitude: 883m	5/11/06	6.6	64	15	8	1080	<10	0.03	30mm rain
		19/10/06	6.6	66	22	8	1010	10	-	Slight cloudy, brown algae on c'bed
		18/11/06	6.8	70	16.5	8	1010	40	0.04	Very muddy despite no rain
		28/12/06	5.6	66	24	8	1050	<10	0.05	
		26/1/07	6.0	60	28	8	1050	<10	-	38mm, dead shrimps /striders/water snails
		12/4/07	7.0	74	17.5	8	910	<10	0.03	Slightly muddy, algal film on c'bed
		10/5/07	-	-	-	-	1090	-	-	2mm rain
		15/5/07	8.85	101.5	14.46	8.33	972	0.5	<0.01	SCA Field Data
		26/5/07	-	-	-	-	930	-	-	48mm rain
		1/6/07	-	-	-	-	890	-	-	8mm rain
		14/6/07	-	-	-	-	730	-	-	88mm rain, muddy

30/6/07	6.0	50	7.5	7	580	30	0.07	no frogs, 200mm+ rain June
28/7/07	6.4	54	8	7	640	<10	0.06	Brown muck on creek bed
27/8/07	6.3	59	12.5	7.5	630	<10	0.03	25mm rain, mud on creekbed, some frogs
7/9/07	-	-	10.5	7.5	640	<10	-	Flow less than usual, some frog calls
24/9/07	7.1	68	12.5	7	720	<10	0.11	Flow low, fine brown silt on creekbed
11/10/07	-	-	15	7	860	<10	-	Possibly Gambusia, silt on creekbed
30/10/07	7.4	86	21.5	7.5	910	<10	0.07	29mm rain. Possibly gambusia.
4/11/07	-	-	-	-	610	100	-	Turbidity after 50mm storm overnite
30/11/07	6.1	64	18	7	540	30	0.01	150mm rain Nov, yellow/milky
31/12/07	6.9	82	25.5	7	610	<10	0.06	Brown Trout, Gambusia
28/1/08	5.6	64	22	7.5	550	<10	0.07	Clear, flowing well, brown trout
2/3/08	5.8	58	15	7	510	<10	0.07	71mm rain during week, good flow
2/4/08	6.8	70	17	7	620	<10	0.06	Poss. Gambusia, 1 brown trout
29/5/08	7.1	62	10	7	840	<10	0.03	15mm rain o'nite, 2 brown trout
30/7/08	7.0	59	8.5	7	800	<10	-	Flowing, clear, no frogs
30/9/08	6.0	61	16	7	680	<10	0.08	Flowing, clear, no frogs
31/10/08	6.2	71	21	7.5	650	<10	0.04	Flowing, clear
25/1/09	5.2	60	22.5	8	720	<10	0.06	Flowing, clear, Gambusia
25/2/09	5.5	60	20	8	830	20	0.09	Springvale Transfer begun , muddy
3/3/09	-	-	19.5	-	870	20	-	High flow, more grey than yellow
1/4/09	5.7	60	18	8	870	10	-	High flow, grey, froth, 18mm o/nite
29/4/09	7.1	70	14.5	8	990	150	-	V. muddy, higher flow than usual
31/5/09	5.9	57	14	8.5	1040	15	-	Grey, 5 ⁰ warmer than other cks today
28/6/09	5.3		13.5	8.5	1100	15	-	Grey, 6 ⁰ warmer, poss. gambusia
23/7/09	-	-	11	8	1040	15	-	Grey, froth, warm
31/8/09	6.4	61	13	8.5	940	<10	0.05	Feels warm (5 ⁰ warmer than upstream)
30/9/09	6.6	68	17	8	870	<10	0.10	2/3 <u>less flow</u> than last 8 months
6/11/09	6.4	67	17.5	8	1020	<10	0.13	No aquatic life/frogs visible or audible
12/12/09	7.2	82	22	8	1080	<10	0.23	Lowest flow in 3 years, Gambusia
11/2/10	5.8	67	22.5	7	510	40	-	60mm rain over w'end, muddy
12/3/10	7.2	75	17	7.5	840	<10	0.02	Flowing, clear
11/3/11	-	-	-	-	790	<10	-	Flowing well, clear, a tortoise
26/9/12	-	-	-	-	940	-	-	Bluey grey and murky
25/5/14	-	-	-	-	1080	-	-	Very high flow despite no rain
4/8/15	-	-	-	-	1110	-	-	Very high flow
30/10/15	-	-	-	-	1280	-	-	High flow
24/11/15	-	-	-	-	1230	-	-	Medium flow

30/11/15	-	-	-	-	1250	-	-	
12/1/16	-	-	-	-	1290	-	-	High flow
09/02/16	-	-	-	-	1280	-	-	200mm rain Jan, (1241 WaterInfo)
09/03/16	-	-	-	-	1270	-	-	
10/4/16	-	-	-	-	1290	-	-	Higher than Sawyers (LDP9) 1270
03/05/16	-	-	-	-	1400	-	-	Higher than Sawyers (LDP9) 1250 <i>NOW Gauge 212054: 1,348us/cm</i>
28/6/16	-	-	-	-	1120	-	-	Very high flow, highest I've seen, and no substantial rain. <i>NOW Gauge says 84ML/day and 1100EC</i>
2/7/16	-	-	-	-	1130	-	-	Election Day. Very high flow still. <i>NOW Gauge: 68ML/day, 1115EC</i>
3/9/16	-	-	-	-	1140	-	-	<i>NOW Gauge 212054: 5,117 ML/day 862EC. 65mm in our rain gauge</i>
20/1/17	-	-	-	-	1180	-	-	
16/2/17	-	-	-	-	1340	-	-	Slightly less flow than usual
25/2/17	-	-	-	-	1201	-	-	
1/9/17	-	-	-	-	1290	-	-	<i>NOW Gauge 212054 = 1,072 ???</i>
27/9/17	-	-	-	-	1250	-	-	<i>NOW Gauge 21504 =</i>
8/10/17	-	-	-	-	1240	-	-	<i>NOW Gauge 21504 = 994 ???</i>
16/10/17	-	-	-	-	1260	-	-	<i>NOW Gauge 21504 = 1033 ???</i>
20/12/17	-	-	-	-	1220	-	-	<i>NOW Gauge 21504 = 1,013 ???</i>
17/4/18	-	-	22.6	-	1350	-	-	<i>NOW Gauge 21504 = 1112 ???</i>
17/5/2018	-	-	-	-	1410	-	-	
21/8/18	-	-	-	-	1310	-	-	<i>NOW Gauge 21504 = 1069 ???</i>
20/9/18	-	-	-	-	1240	-	-	<i>NOW Gauge 21504 = 1008 ???</i>
19/05/19	-	-	-	-	1220	-	-	
30/7/2019	-	-	-	-	760	-	-	Flow about 8-10M. LDP9 stopped
7/8/2019	-	-	-	-	910	-	-	EC rising again, despite Springvale LDP009 having stopped 30/6/19???
4/12/2019	-	-	-	-	1710	--	-	Highest level since recording began. <i>NOW Gauge 212054: no EC data in last 7 days.</i>
3/1/2020	-	-	-	-	1730	-	-	Low flow, 5 dead fish , 1 x30cm, 4 fingerlings. Another dead fish Main St Wallerawang. <i>NOW Gauge 212054: no EC data in last 7 days.</i>
4/1/2020	-	-	27.5	-	1850	-	-	27.5°C, fishy odour, more dead

										trout fingerlings at The Point, Lake Wallace. <i>NOW Gauge 212054: no EC data in last 7 days.</i>
		5/1/2020	-	-	24	-	1870	-	-	Flowing
		6/1/2020	-	-	22	-	1920	-	-	Flowing
		7/1/2020	-	-	21	-	1930	-	-	3mm rain, 1 st since 23/11/2019
		9/1/2020	-	-	23	-	1940	-	-	Flowing, froth bubbles on surface
		10/1/2020	-	-	21	-	2108	-	-	EPA testing. Our metre said 1950
		19/2/2020	-	-	-	-	1560	-	-	100+mm rain last few weeks
		26/2/2020	-	-	-	-	1600	-	-	Flowing, considerable rain upstream <i>NOW Gauge 212054: no EC data in last 7 days</i>
		2/3/2020	-	-	21.5	-	1710	-	-	Flowing
		14/3/2020	-	-	-	-	1880	-	-	Flowing more than last time
		24/3/2020	-	-	-	6.8	1717	-	-	<i>Hunter Enviro Centre Monitoring</i>
		26/5/2021	-	-	-	-	810	-	-	Flowing very well
		17/4/2023	-	-	-	-	870	-	-	Flowing well
		27/9/2023	-	-	17	-	1160	-	-	Salinity rising again. Flowing well.
		11/12/2023	-	-	-	-	1140	-	-	60mm rain in past week
		21/2/2024	-	-	-	-	790	-	-	55mm rain last 2days
		2/03/2024	-	-	-	-	890	-	-	690EC Main St Wallerawang d'strm
		4/04/2024	-	-	-	-	1210	-	-	<i>NOW 212054 d'strm = 843.3 15:15</i>
		4/05/2024	-	-	-	-	850	-	-	<i>NOW 212054 d'strm = 611.0 07:30</i>
		26/7/2024	-	-	-	-	890	150-200	-	V. muddy, high flow. <i>NOW 212054 d'strm = 455.5EC, 0.0 NTU 14:30</i> Reported to EPA, photos, sample
		23/9/2024	-	-	13	8	1130	-	-	Flowing, clear. <i>NOW212054 997EC</i>
8	Marrangaroo Creek, Great Western Hwy, Marrangaroo -33.437185 150.113519 Altitude: 914m	24/9/06	7.6	75	14	7	40	<10	0.03	
		30/9/06	8.8	82	10	6.5	50	<10	0.03	
		27/12/06	6.6	76	21	8	60	15	0.11	Turbidity rising
		24/1/07	6.3	72	22	6	70	15	0.06	40mm rain
		12/4/07	6.0	68	14	7	60	<10	0.07	
		3/5/07	5.0	50	15	7	50	<10	0.04	
		15/5/07	7.56	81.8	11.15	7.03	44	1.8	<0.01	SCA Field Data
		22/6/07	6.7	55	7	7	70	<10	0.06	150mm rain
		26/7/07	6.6	55	7	7	90	<10	0.04	1 platypus, brown trout
		31/8/07	8.1	70	9.5	7	60	<10	0.02	25mm rain, slightly green, good flow

		24/9/07	5.1	47	11	7	50	<10	0.02	Water rat ate a baby platypus
		2/11/07	6.3	60	13	7	60	<10	0.06	Milky green
		4/11/07	-	-	-	-	-	40	-	Turbidity after 50mm storm overnite
		30/11/07	5.7	57	14.5	7	40	<10	0.04	150mm rain Nov, slight green tinge
		1/1/08	6.1	60	15	7	50	<10	0.06	Flowing very well, clear
		29/1/08	3.8	42	19	7	40	<10	0.04	Good flow, murky, 5 Platypus
		2/3/08	7.2	69	13	7	40	<10	0.04	71 mm rain during week
		16/3/08	-	-	-	-	-	-	-	2 Platypus. tortoise
		1/4/08	6.9	63	11.5	7	60	<10	0.05	Clear, flowing well
		29/5/08	7.2	60	8	7	50	<10	0.03	Clear flowing well
		31/7/08	7.5	58	4	7	60	<10	-	Clear, flowing well
		30/9/08	6.9	64	12	4.5	50	<10	0.07	v. low pH? Army camp works?
		31/10/08	6.6	70	17	7	40	<10	0.03	Clear, flowing well
		28/1/09	5.1	58	19.5	6.5	50	<10	0.04	Flowing well, clear
		22/2/09	5.7	59	17	7.5	30	<10	0.04	28mm rain, 2 P'pus, Army Camp works
		30/3/09	5.5	53	14	7	50	<10	0.05	Flowing well, clear
		30/4/09	8.3	74	10	7	40	<10	-	Flowing well, crystal clear
		28/5/09	7.7	68	10	7	60	<10	-	70mm rain. High flow, clear
		29/6/09	6.9		9	6	60	<10	-	Recent rain, flowing well, clear
		28/7/09	-	-	6.5	7	90	<10	-	Recent rain, v. good flow, clear
		1/9/09	4.8	40	7.5	7	70	<10	0.04	Recent rain, good flow, clear
		30/9/09	7.5	67	10.5	7	70	<10	0.03	Flowing well, clear
		7/11/09	5.1	50	14	7	60	<10	0.15	Flowing well, clear
		10/12/09	3.7	38	17	7	60	<10	0.10	Lesser flow, St Johns Wort flowering
		11/2/2010	5.6	59	17.5	7	40	<10	-	60mm rain over w'end, flowing v.well
		13/3/2010	7.3	71	14	7	50	<10	0.12	Flowing well, clear
		16/4/2018	-	-	16	-	30	-	-	Flowing, crystal clear
		17/5/2018	-	-	-	-	30	-	-	Flowing, crystal clear
		28/9/2023	-	-	-	-	50	-	-	Flowing
9	Farmer's Creek Coerwull Rd Bowenfels (downstream LCC STP outfall)	24/10/06	2.0	32	17	8	580	15	-	
		5/11/06	2.4	22	16	8	460	20	13.4	30mm rain
		30/11/06	2.1	22	25	7	650	15	17.1	
		24/12/06	2.1	21	20	8	520	20	12.2	20mm rain
		25/1/07	4.8	60	26.5	8	450	15	1.66	40mm rain
		16/4/07	4.8	50	17	7.5	430	10	0.49	

-33.470241 150.126116 Altitude: 898.78m	15/5/07	5.63	66.8	15.21	7.34	434	3.4	0.2	SCA Field Data
	17/5/07	5.5	55	14.5	7	430	<10	0.76	3mm rain
	30/6/07	7.0	59	8	6.5	170	<10	0.06	200mm+ rain June
	26/7/07	7.7	67	9	7	270	10	0.06	Slightly milky, green
	31/8/07	6.8	63	12.5	7	270	20	0.19	25mm, green algae on creekbed
	24/9/07	7.7	80	16	7.5	350	50	0.04	v. green, no frog calls
	2/11/07	4.9	44	17	7	460	60	1.03	45mm rain, muddy
	4/11/07	-	-	-	-	-	40	-	Turbidity after 50mm storm overnite
	30/11/07	5.7	64	20.5	7.5	270	<10	0.55	Sewage spills last week, 150mm rain
	1/1/08	5.7	65	23	7.5	300	<10	0.36	Looks clear, flowing well
	29/1/08	5.5	70	25.5	7	300	<10	0.32	Slight 'fishy' odour
	9/3/08	6.3	71	20.5	7	310	<10	0.22	7mm rain, froth & bubbles
	1/4/08	6.6	72	17.5	7.5	330	10	0.64	Milky/grey/green, froth, flocs of algae
	29/5/08	6.0	57	12	7	350	15	0.59	Milky/grey/green, 6 wood ducks
	31/7/08	7.1	56	5	7	340	60	-	Muddy, 150NTU at Geordie St
	30/9/08	7.2	77	18	8	220	15	1.85	A bit murky + froth + odour
	31/10/08	5.8	70	22.5	7	250	10	17.3	Phos test turned blue instantly, murky
	28/1/09	6.1	65	18	8	300	20	18.3	Green, froth on surface, odour
	1/3/09	6.4	72	20.5	7	220	10	1.14	Flowing well, phos test 'blued' quickly
	30/3/09	5.9	64	19.5	7	-	10	1.48	Green flocs, booms-diesel spill last wk
	30/4/09	6.1	61	13.5	7	270	<10	-	Flowing well, clear
	28/5/09	5.9	55	12.5	7	180	<10	-	70mm rain, slightly murky, good flow
	29/6/09	-	-	11	7	200	10	-	Slightly murky, organic odour
	28/7/09	-	-	8	7	250	15	-	Murky, slightly green, floating algae
	1/9/09	6.7	61	11.5	7	240	10	15.5	Phos OverRange. Murky, froth
	30/9/09	5.5	56	16.5	7	300	15	17.8	Phos OverRange, murky
	6/11/09	5.2	54	17.5	7	270	10	16.3	Phos OverRange, murky
9/12/09	3.8	46	25	7	280	10	19.7	Phos OverRange, murky	
11/2/10	5.2	61	23	7	200	<10	-	60mm rain over w'end, murky	
13/3/10	7.7	78	16	7	280	10	2.38	Green, algae flocs thru water, froth	
17/2/11	-	-	-	-	-	-	-	Blue Green Algae Alert Farmers Ck http://www.council.lithgow.com/media/110217_blueGreenAlgae.html Creek has been green since Xmas	
12/3/11	-	-	-	-	-	-	-	Blue Green Algae Alert Farmers Ck + Lake Wallace in Lithgow Mercury	
7/05/18	-	-	-	-	630	-	-	Highest since 30/11/06. Clarence T'fer	
17/5/18	-	-	-	-	480	-	-		

		28/9/2023	-	-	-	-	380	-	-		
		23/9/2024	-	-	-	-	260	-	-		
10	State Mine Creek, State Mine Gully Road, “Dobb’s Drift” Lithgow -33.448236 150.176066 Altitude: 1008m	24/10/06	7.4	83	13	7	30	<10	-		
		4/11/06	7.4	74	11	7	30	<10	-		
		9/1/07	5.0	52	17	7	30	<10	0.04		
		23/1/07	5.9	61	18	7	30	<10	0.06	40mm rain	
		16/4/07	6.8	66	13	7	30	<10	0.02		
		7/5/07	5.9	55	12	7	30	<10	0.00		
		15/5/07	8.18	87.1	11.51	6.65	47	4.7	<0.01	SCA Field Data	
		22/6/07	6.7	54	7	7	40	<10	0.02	150mm rain to date June	
		26/7/07	7.6	61	7	7	30	<10	0.02	200mm+ rain in June	
		31/8/07	6.9	60	9.5	7	30	<10	0.08	25mm rain, clear, good flow	
		24/9/07	6.9	60	9.5	7	30	<10	0.02	Rust stains on rocks in creekbed	
		2/11/07	-	-	13.5	7	30	400	0.03	45mm rain, v. muddy yellow	
		4/11/07	-	-	-	-	30	50	-	Turbidity after 50mm storm overnight	
		6/12/07	5.8	57	14	7	30	<10	0.07	150mm rain Nov, 23mm 2 days ago	
		1/1/08	5.3	56	17.5	7	30	<10	0.02	Clear, lots birds, cicadas	
		29/1/08	5.6	56	15.5	6.5	30	<10	0.01	Flowing well, clear	
		9/3/08	6.1	60	14.5	6	30	<10	0.01	7mm rain, sediment up after storms	
		1/4/08	6.0	56	12	7	30	<10	0.01	Clear, flowing well	
		31/5/08	6.5	56	8.5	7	30	<10	0.01	Clear, flowing, lots of birds	
		31/7/08	6.8	54	5	7	30	<10	-	Crystal clear, flowing well	
		30/9/08	5.9	52	9	7	30	<10	0.03	Clear, flowing, lots of birds	
		4/11/08	6.2	58	12.5	7	30	<10	0.05	Clear, flowing, a Lyrebird	
		28/1/09	4.9	52	17.5	7	30	<10	0.01	Clear, flowing	
		1/3/09	5.5	56	16	7	30	<10	0.11	Crystal clear, flowing	
		6/4/09	6.0	57	13	7	30	<10	-	30mm+ rain, flowing v. well, clear	
		30/4/09	6.1	55	10	7	30	<10	-	Flowing well, crystal clear	
		28/5/09	6.3	56	10	7	30	<10	-	70mm rain, Flowing well, Lyrebird	
		29/6/09	-	-	9	7	30	<10	-	Recent rain, flowing well, clear	
		1/9/09	6.6	56	8.5	7.5	30	<10	0.10	Recent rain, clear, flowing well	
		30/9/09	6.1	53	9	7	30	<10	0.08	Flowing, clear	
7/11/09	6.0	56	12.5	7.5	30	<10	0.08	Flowing, crystal clear			
10/12/09	6.0	58	14	7	30	<10	0.12	Flowing, clear			
11/2/10	6.2	64	16.5	7	30	<10	-	60mm rain over w’end, flowing well			
13/3/10	8.2	79	13.5	7	30	<10	0.00	Crystal clear, flowing			

		28/9/2023	-	-	-	-	20	-	-	Crystal clear, flowing well	
11	Farmer's Creek, Oakey Park, "Waterworks Gully", Lithgow	24/10/06	5.6	78	15	7	40	<10	-		
		4/11/06	7.4	83	13	7	40	<10	-		
		24/12/06	3.5	38	19	6	40	<10	0.01	20mm rain	
		16/4/07	6.4	60	12	7	40	<10	0.00		
		7/5/07	6.7	66	11	7	30	<10	0.05		
		15/5/07	8.49	92.8	11.6	7.30	65	1.7	<0.01	SCA Field Data	
		22/6/07	6.8	56	7	7	70	<10	0.02	150mm rain to date June	
		26/7/07	7.1	58	6.5	7	30	<10	0.02	200mm+rain in June	
		31/8/07	6.3	57	10.5	7	30	<10	0.01	25mm rain, clear, good flow	
		27/9/07	6.0	58	13.5	7	30	<10	0.01	Clear, flowing, saw a Lyrebird	
		2/11/07	6.5	65	15	7	30	15	0.02	45mm rain, slightly turbid	
		4/11/07	-	-	-	-	20	10	-	Turbidity after 50mm storm overnite	
		6/12/07	5.2	52	15	7	40	<10	0.04	150mmNov, 23mm 2 days ago, clear	
		1/1/08	4.5	48	18	7	20	<10	0.03	Black cockatoos & lots other birds	
		29/1/08	4.9	54	19	7	30	<10	0.02	Flowing well, crystal clear	
		9/3/08	5.7	58	17	7	20	<10	0.02	7mm storm 2 days ago	
		1/4/08	6.5	60	12	7	30	<10	0.01	Clear, flowing well	
		31/5/08	6.4	56	8	7	30	<10	0.02	Clear, roadwork may cause erosion	
		31/7/08	7.2	56	4.5	6.5	20	<10	0.02	Clear, flowing well, lots of birds	
		30/9/08	5.4	50	10.5	7	20	<10	0.04	Clear, flowing well, lots of birds	
		4/11/08	5.4	53	14	7	20	<10	0.11	Clear, flowing well, lots of birds	
		28/1/09	4.0	48	21	7	30	<10	0.02	Clear, flowing well, lots of birds	
		26/2/09	5.1	54	17.5	7	20	<10	0.05	Clear, 30mm rain last 7 days	
		6/4/09	6.1	60	15	7	30	<10	-	30mm+ rain, flowing v. well, clear	
		30/4/09	6.1	55	10	7	30	<10	-	Flowing well, crystal clear	
		28/5/09	6.1	54	10	7	30	<10	-	70mm rain, Flowing v. well, Lyrebird	
		29/6/09	-	-	9	7	30	<10	-	Recent rain, flowing well clear	
		28/7/09	-	-	7.5	7	40	<10	-	Recent rain, clear flowing well	
		1/9/09	6.4	55	8.5	7	20	<10	0.03	Recent rain, clear	
		30/9/09	6.0	53	10	7.5	30	<10	0.10	Flowing well, crystal clear	
7/11/09	5.4	51	13	7.5	20	<10	0.12	Flowing, clear, upstream Dam is 90EC			
10/12/09	5.4	54	15.5	7.5	50	10	0.10	Milky, Road closed - tested near WTP			
11/2/10	5.6	60	18.5	7	60	<10	-	60mm rain w'end, dam overflowing			
13/3/10	7.4	73	14.5	7	30	<10	0.02	Flowing, lots birds, G. acanth in flower			

		7/05/18	-	-	-	-	160	-	-	EC Highest ever, Clarence Transfer
		28/9/2023	-	-	-	-	20	-	-	Crystal clear, flowing
12	River Lett, Jenolan Caves Road, Hartley	30/12/06	1.9	19	18	7	210	30	0.00	12mm rain
		21/1/07	2.4	24	20	6	410	10	0.02	69mm Hartley
		16/4/07	4.8	48	15	7	160	<10	0.02	
		6/5/07	5.2	48	11	7	130	<10	0.04	
		15/5/07	8.62	92.9	11.17	7.22	137	4.3	<0.01	SCA Field Data
		28/6/07	7.3	60	7	7	130	10	0.05	200mm+ rain June
		26/7/07	6.9	57	7	7.5	190	<10	0.08	
		26/8/07	6.8	60	10	7	160	<10	0.02	Flowing well, clear, no frogs
		27/9/07	6.8	64	12	7	180	<10	0.04	Lots frogs, butterflys, birds
		2/11/07	5.5	55	15	7	150	<10	0.03	45mm rain, tea-tree colour
		6/12/07	5.7	60	18.5	7	140	<10	0.04	150mmNov, 23mm 2 days ago
		1/1/08	5.3	59	20	7	130	<10	0.01	Tea-tree stained, flowing well
		29/1/08	5.8	66	21	7	110	<10	0.01	Flowing well, clear
		9/3/08	6.0	64	18	7.5	140	<10	0.03	7mm rain. EC 80 at Londonderry
		12/3/08	-	-	-	-	-	-	-	1x White-tailed Water Rat
		1/4/08	4.3	40	11.5	7	140	<10	0.01	Eastern water dragon, dragon flies
		31/5/08	7.3	60	7.5	7	200	<10	0.12	Clearer than usual, EC & P seem high
		31/7/08	7.4	60	5	7	190	<10	-	Flowing, clear, new sign installed
		30/9/08	6.5	51	13	7	140	<10	0.04	Flowing, clear, Green Corps on-site
		31/10/08	6.4	70	19	7	130	<10	0.07	Flowing, clear
		28/1/09	3.2	36	22	7	120	15	0.11	Tea-tree stained, 2 Eastn Water Dragon
		26/2/09	5.3	60	18.5	7	100	<10	0.03	Flowing, clear, a fish 200mm long
		30/3/09	5.3	53	15.5	7	120	<10	0.08	Flowing, clear
		30/4/09	6.6	59	10	7	100	<10	-	Flowing, clear
		28/5/09	7.1	64	10.5	7	140	<10	-	70mm rain, flowing very well
		29/6/09	-	-	9	7	190	<10	-	Recent rain, slightly murky, good flow
		28/7/09	-	-	7	7	300	<10	-	Good flow, froth, salinity is up?
		1/9/09	7.0	61	9.5	8	250	<10	0.08	Recent rain, clear
		30/9/09	7.0	62	10	7	210	<10	0.08	Flowing, clear
		6/11/09	5.7	58	16	7.5	140	<10	0.13	Flowing, tea-tree stained
		9/12/09	3.4	37	19	7	140	10	0.15	Level low, tea-tree stained & muddy
		11/2/10	5.8	64	20.5	7	90	<10	-	60mm rain w'end. Flowing well
		13/3/10	8.5	83	14	7	90	<10	0.01	Tea-tree stained, flowing, clear

		16/8/15	-	-	-	-	170	-	-	Clear, flowing
		09/03/16	-	-	-	-	90	-	-	
		07/05/18	-	-	-	-	60	-	-	Best ever
		9/1/2020	-	-	21	-	210	-	-	Lowest water level; ever, very turbid
		30/7/2022	-	-	-	-	170	-	-	High water level, slightly murky
		28/9/2023	-	-	-	-	90	-	-	Full. Clear
13	Lake Lyell, Cox's River, Magpie Hollow, end of Sir Thomas Mitchell Drive (35km downstream of start of Coss River)	24/10/06	8.1	76	14	9	750	60	-	Water is green
		5/11/06	8.6	88	17	9	730	15	0.44	30mm rain Water is green
		30/11/06	9.1	110	24	9	880	20	0.20	Water is green
		30/12/06	9.7	119	24	9	870	20	0.14	12mm rain Water is green
		25/1/07	8.4	110	29	9	840	50	0.27	40mm rain, Water green
		16/4/07	5.4	58	19.5	8	910	20	0.05	Water is green
		15/5/07	8.5	104.6	16.81	7.9	945	12.5	0.01	SCA Field Data
		28/6/07	6.8	58	8	7	530	20	0.08	200mm+ rain June
		26/7/07	6.8	58	9	7	530	10	0.05	Slightly green
		26/8/07	8.6	80	12	8	520	60	0.08	Dense green algae, water green
		27/9/07	6.4	62	14	8.5	550	30	0.04	Water green, dense algae on edges
		2/11/07	5.1	56	17.5	7	570	10	0.24	45mm rain, not green for once
		6/12/07	4.5	50	20	7	550	<10	0.10	150mm Nov, 23mm 2 days ago
		1/1/08	4.8	65	26	9	570	20	0.12	Algae on edge, motorboats/mud
		29/1/08	7.9	98	25.5	9	610	20	0.08	Algae edge, musty rotting weed smell
		9/3/08	7.5	89	23	8.5	590	20	0.06	AP = 0.74 upstream, 0.20 downstream?
		1/4/08	4.8	51	18	7	580	<10	0.09	Flocs of algae on edge. Farmers Ck green
		31/5/08	6.4	60	12	7	640	<10	0.19	Clear, flocs of algae around edge
		31/7/08	7.4	64	9	7.5	600	<10	-	Greenish, water level down 1.5m on last
		30/9/08	6.8	70	16	8	530	<10	0.22	Farmers Ck arm green, Gorse flowering
		31/10/08	7.5	84	20	9	530	<10	0.13	Farmers Ck arm green, Gorse flowering
		28/1/09	5.7	72	26	8	530	<10	0.12	Flocs of green algae in water column
		26/2/09	7.3	84	21	8.5	520	10	0.09	Farmers Ck arm green, 30mm rain-7days
		30/3/09	6.8	75	20	8.5	520	10	0.12	Green, light-green floating algae on edge
		30/4/09	6.2	64	16	8	590	<10	-	1m lower than last time, clear
		28/5/09	6.3	61	14	7.5	550	<10	-	70mm rain, Farmers Ck arm milky/green
		29/6/09	-	-	10.5	7.5	610	<10	-	Tested SE side near illegal Council quarry
		28/7/09	-	-	9.5	8	610	10	-	Slight green tinge, murky
		1.9/09	7.5	70	12	8.5	600	15	0.31	Recent rain, green edges further down

		30/9/09	9.5	94	15	8.5	580	15	0.31	Green, algae thru water column
		6/11/09	8.0	86	19	9	650	10	0.34	Green, algae around edges, 2m lower
		9/12/09	6.7	79	23.5	9	660	20	0.25	Muddy+green tinge, ski boats, lower
		11/2/10	7.4	90	25	9	650	10	-	60mm rain, algae around edges, greenish
		13/3/10	7.7	83	19	7.5	740	<10	0.15	Light green algae water edge, level lower
		5/8/10	9.5	80	8	7.5	780	10	0.15	Slightly muddy after heavy rain
		15/2/17	-	-	-	-	-	-	-	Red Alert – Blue Green Algae - LCC
		16/2/17	-	-	-	-	570	-	-	Supposedly closed due to Blue/Green Algae Warning, Green around edges
		15/4/17	-	-	-	-	-	-	-	Closed due to Blue Green Algae - LCC
		21/8/17	-	-	-	-	620	-	-	At Old Western Road, not usual spot
		28/3/18	-	-	-	-	-	-	-	Amber Alert – Blue Green Algae - LCC
		11/4/18	-	-	-	-	-	-	-	Red Alert - Blue Green Algae LCC
		17/4/18	-	-	20	-	700	-	-	A lot of stringy algae near waters edge
		20/9/18	-	-	-	-	760	-	-	
		28/5/19	-	-	-	-	760	-	-	Sir Thom Mitchell Dr, many green bits
		5/12/2019	-	-	-	-	760	-	-	
		25/3/2020	-	-	-	6.5		-	-	<i>Hunter Enviro Centre Monitoring</i>
		28/9/2023	-	-	-	-	280	-	-	96.7% capacity (Energy Australia website). Best EC ever. Ski-boats stirring up mud near banks but otherwise clear
		4/04/2024	-	-	18.5	8	308.8	1	-	<i>NOW Gauge 212011. 15:15</i>
14	Lake Wallace Wallerawang -33.416668 150.075396 Altitude: 870m	24/10/06	6.1	60	19	9	1100	<10	-	
		18/11/06	8.0	89	19.5	9	1130	<10	0.29	
		27/12/06	6.3	72	22	9	1140	<10	-	
		9/1/07	-	-	-	-	1200	-	-	
		24/1/07	6.4	74	25	9	1100	<10	0.45	40mm rain
		12/4/07	6.5	68	17.5	9	1130	<10	0.55	
		29/4/07	-	-	-	-	1150	-	-	18mm rain
		15/5/07	7.8	93.9	16.00	8.82	1146	0.2	0.17	SCA Field Data
		24/5/07	-	-	-	-	1010	-	-	48mm, overflowing dam wall
		12/7/07	-	-	-	-	730	-	-	Overflowing dam wall
		19/7/07	-	-	-	-	710	-	-	<u>Not</u> overflowing dam wall
		17/8/07	-	-	9	-	690	<10	-	8mm rain, spillway <u>not</u> overflowing
		24/9/07	-	-	13	8.5	750	<10	-	Dam wall <u>not</u> overflowing

11/10/07	-	-	18	8.5	720	<10	-	Dam wall <u>not</u> overflowing
4/11/07	-	-	-	-	850	15	-	Top end of lake, 50mm storm o'nite
9/4/08	6.6	69	16.5	8.5	700	<10	0.26	Day after acid spill at Wang power statio
17/6/08	-	-	-	-	810	<10	-	Clear, dam wall <u>not</u> overflowing
28/1/09	5.6	68	24.5	8.5	620	<10	0.27	Clear, <u>not</u> overflowing
1/3/09	7.8	94	23	9	640	15	0.10	Flocs of algae in water column, slty green
29/5/09	-	-	11	8.5	800	<10	-	70mm rain. West outlet pumping 650EC
28/6/09	-	-	9	8	850	<10	-	Rain o'nite, clear, <u>not</u> overflowing
1/9/09	6.9	66	11	8	780	<10	0.09	Clear, rain last few days, <u>not</u> overflowing
4/11/09	6.0	76	20.5	8.5	830	<10	0.12	Clear, no algae evident, <u>not</u> overflowing
11/12/09	5.7		20.5	9	820	<10	-	Clear, level down 0.5m, <u>not</u> overflowing
20/2/10	5.8	68	22.5	8.5	780	<10	0.38	100m rain, clear, dam overflowing
19/10/10	-	-	19	8.5	580	<10	0.22	Dam wall overflowing
12/3/11	-	-	-	-	-	-	-	Blue Green Algae Alert Lake Wallace,
18/2/14	-	-	-	-	-	-	-	Red Alert BG Algae – Oberon Review
24/5/14	-	-	-	-	1050	-	-	
7/9/2014	-	-	-	-	1110	-	-	Dam o/flowing, Rocky W/Hole 1110
24/5/15	-	-	-	-	940	-	-	Dam o/flowing, Rock Waterhole 940
25/6/15	-	-	-	-	1010	-	-	Dam o/flowing
4/8/15	-	-	-	-	980	-	-	Dam o/flowing, Rock Waterhole 990
30/10/15	-	-	-	-	1030	-	-	Dam o/flowing, Rock Waterhole 1020
24/11/15	-	-	-	-	1060	-	-	Dam o/flowing, Rock Waterhole 1050
12/1/16	-	-	-	-	1110	-	-	Dam o/flowing, Rock Waterhole 1110
09/02/16	-	-	-	-	1110	-	-	200mm rain in January
09/03/16	-	-	-	-	1140	-	-	
15/2/17	-	-	-	-	-	-	-	Amber Alert – Blue Green Algae - LCC
10/4/16	-	-	-	-	1160	-	-	Dam o/flowing, Rock Waterhole 1160
03/05/16	-	-	-	-	1200	-	-	Dam o/flowing
16/2/17	-	-	-	-	1010	-	-	Dam o/flowing, some algae
1/9/17	-	-	-	-	1220	-	-	Dead fish near boatramp, salt build-up on grass in low areas
27/9/17	-	-	-	-	1220	-	-	
8/10/17	-	-	-	-	1130	-	-	Thompsons Ck Dam water being used to dilute Lake Wallace (photos)
9/10/17	-	-	-	-	1160	-	-	Thompsons Ck Dam inflow 630EC. 1130EC at pontoon. Photos taken
16/10/17	-	-	-	-	1130	-	-	Thompsons Ck Dam inflowing

23/11/17	-	-	-	-	1050	-	-	
16/3/18	-	-	-	-	-	-	-	Amber Alert – Blue Green Algae - LCC
28/3/18	-	-	-	-	-	-	-	Red Alert – Blue Green Algae - LCC
11/4/18	-	-	-	-	-	-	-	Remains on Red Alert, also Lake Lyell
15/4/18	-	-	-	-	1190	-	-	Green, stinks, Algae warning signs up
17/5/18	-	-	-	-	1230	-	-	Green with algae, Rocky W/hole 1230
21/8/18	-	-	-	-	1320	-	-	Highest ever!
20/9/18	-	-	-	-	1270	-	-	Green. Peter Drinkall said dam wall has not been overflowing last few days
28/5/19	-	-	-	-	1110	-	-	Lots of green floaties
4/12/2019	-	-	-	-	970	-	-	Thompsons Ck inlet flowing 770EC. Dam wall NOT spilling.
4/1/2020	-	-	25	-	980	-	-	At The Point (Camper Van at usual site). One dead trout fingerling
13/3/2020	-	-	-	-	1010	-	-	Putrid with Blue Green Algae, lots of water weed
24/3/2020	-	-	-	9.1	915	-	-	<i>Hunter Enviro Centre Monitoring</i>
28/9/2023	-	-	-	-	670	-	-	105.3% capacity (Energy Australia website). Clear. Many fishermen (school hols). Thompsons Creek Dam transfer gushing (photo taken)
4/1/2024	-	-	-	-	640	-	-	Fish kill – 100s of dead redfin (mostly). Water had a bad odour. 65mm rain in last 3 days (145mm Dec 2023). EPA and Council recommend closure of Lake, however no signs posted anywhere near Lake on 4/1/2024 and heaps of fisherman and campers. https://www.abc.net.au/news/2024-01-04/mass-fish-kill-of-redfin-near-blue-mountains/103283880 .
21/2/2024	-	-	-	-	630	-	-	Lots of water weed on lake edges
2/03/2024	-	-	-	-	600	-	-	TCR release large and 330EC
4/04/2024	-	-	-	-	640	-	-	TCR discharge not flowing
6/05/2024	-	-	-	-	620	-	-	TCR discharge not flowing
26/7/2024	-	-	-	-	660	-	-	Lake clear, but very turbid upstream
23/9/2024	-	-	-	-	670	-	-	

15	Piper's Flat Creek Bray's Lane (1 st causeway), Wallerawang -33.404963 150.063788 Altitude: 885m	24/9/06	-	-	-	-	>1999	-	-	
		24/10/06	4.8	58	15	7	1980	15	-	
		9/1/07	-	-	-	-	1550	-	-	
		28/1/07	-	-	-	-	890			40mm rain
		26/4/07	-	-	-	-	1910	-	-	Rusty orange
		1/5/07	-	-	-	-	1660	-	-	Rusty orange
		6/5/07	-	-	-	-	1710	-	-	Rusty orange
		13/5/07	-	-	-	-	1650	-	-	Rusty orange
		24/5/07	-	-	-	-	1390	-	-	48mm rain
		1/6/07	-	-	-	-	1380	-	-	8mm rain
		22/6/07	-	-	-	-	320	-	-	35mm, muddy
		15/7/07	-	-	-	-	540	20	-	Rusty coloured
		4/8/07	0.4	5	10	6	1480	30	1.04	V. rusty coloured, flowing
		17/8/07	-	-	10	-	1370	30	-	8mm rain yesterday, rusty coloured
		31/8/07	-	-	11	5.5	1440	30	-	25mm rain, rusty yellow, flowing
		1/9/07	1.2	10	10.5	6	1480	20	-	Rusty orange, some frog calls
		11/10/07	-	-	15	-	1420	40	-	Rusty orange,
		4/11/07	-	-	-	-	230	100	-	Turbidity after 50mm storm overnite
		1/1/08	-	-	-	-	1220	40	-	v.rusty brown, filmy debris on surface
		17/6/08	-	-	-	-	1550	40	-	v.rusty, oil film, recent pipe works
		1/10/08	1.7	15	11.5	6	1170	30	0.05	v.rusty, blobs iron bacteria on surface
		28/1/09	-	-	22	-	1090	30	-	v.rusty,algae/ironodour, poss Gambusia
		3/3/09	3.0	36	18.5	6	1180	30	0.07	v.rusty,algae/iron odour
		26/6/09	-	-	9	6	1540	40	-	v. rusty yellow, rain o'nite, slight flow
		2/9/09	-	-	10.5	6	1370	50	0.11	v. rusty yellow, recent rain, some frogs
		7/11/09	-	-	15	6	1430	30	-	v. rusty, floating dark brown algal blobs
		13/3/10	-	-	16	6	1560	40	-	Slight flow, v. rusty as usual
		13/3/2020	-	-	-	-	480	-	-	Flowing, clear
		28/9/2023	-	-	-	-	510	-	-	High flow, frothy. Thompson's Creek Dam discharge pipe has high flow.
		9/12/2023	-	-	-	-	520	-	-	High flow TCR
4/1/2024	-	-	-	-	400	-	-	65mm rain last 3 days. Muddy. Fish kill (redfin) downstream in Lake Wallace		
21/2/2024	-	-	-	-	490	-	-	55mm rain last 2 days. High flow TCR		
2/03/2024	-	-	-	-	500	-	-	High flow from TCR		
4/04/2024	-	-	-	-	500	-	-	Flowing very well from TCR		

		26/7/2024	-	-	-	-	450	-	-	Muddy. High flow from TCR
		23/9/2024	-	-	-	-	530	-	-	Low flow from TCR
16	Creek in Bray's Lane (2 nd causeway), Wallerawang – below STP outfall (Sample Point 4 sign) -33.404101 150.063936 Altitude: 887m	26/10/06	3.9	20	16	7	650	10	-	
		28/1/07	-	-	-	-	570	-	-	40mm rain
		29/4/07	-	-	-	-	530	-	-	18mm rain
		24/5/07	-	-	-	-	430	-	-	48mm rain
		22/6/07	-	-	-	-	270	-	-	35mm rain
		15/7/07	-	-	-	-	370	<10	-	Flowing well
		17/8/07	-	-	9	-	500	<10	-	8mm rain yesterday
		7/9/07	5.2	46	10	7	530	<10	9.6	Lots bubbles surface, 79H P test
		11/10/07	-	-	16	-	620	10	-	
		1/1/08	-	-	-	-	510	<10	-	Slight oil-slick on surface
		17/6/08	-	-	-	-	510	<10	-	Flowing, disturbance pipe works
		1/10/08	-	-	12.5	-	460	<10	-	Flowing well, clear
		28/1/09	1.9	20	21	7	400	15	29.5	Organic odour, poss. Gambusia
		28/6/09	-	-	10	7	620	<10	-	Flowing well, clear, froth & bubbles
		13/3/2020	-	-	-	-	920	-	-	After 13,000 litre Caustic Soda spill from Wallerawang STP August 2019. No litmus strips, so no pH test.
		28/9/2023	-	-	-	-	500	-	-	High flow
		4/1/2024	-	-	-	-	680	-	-	Low flow. White froth water surface. Fish kill (redfin) downstream.
		21/2/2024	-	-	-	-	520	-	-	55mm rain last 2 days
		2/03/2024	-	-	-	-	510	-	-	More turbid than Pipers Flat Ck
4/04/2024	-	-	-	-	500	-	-	High flow		
26/7/2024	-	-	-	-	450	-	-	Overflowing road at causeway		
23/9/2024	-	-	-	-	750	-	-	Low flow		
17	Piper's Flat Dam, Wallerawang -33.371886 150.009867 Altitude: 938m	26/10/06	8.0	78	17	8	290	<10	-	
		4/2/07	-	-	-	-	320	-	-	
		1/5/07	-	-	-	-	320	-	-	
		22/7/07	7.5	61	7	7	230	<10	0.04	Tea coloured but clear
		3/6/09	-	-	11	-	250	<10	-	80mm rain May. Full. 4 Swans
18	Springvale LDP001 Lamberts Gully Creek,	24/10/06	3.9	40	17	6	1240	15	-	
		18/11/06	5.5	54	15	6	1240	10	-	

<p>Castlereagh Hwy, Blackman's Flat (formerly Springvale Coal Services LDP006 (EPL3607). Note: re-named LDP1 on Licence – 21229 in December 2020. Downstream Lamberts Gully mine, Springvale Coal Services, Main Settlement Dam, Washery Sediment Dam, Stockpile Sediment Dam, Cooks Dam, coal fines recovery project, coal conveyor, and proposed LCC Regional Solid Waste Landfill.</p> <p>-33.363578 150.058632 Altitude: 906m</p>	31/12/06	4.1	42	17	7	1290	10	-	12mm rain
	25/1/07	3.6	42	24	6	1280	15	0.09	40mm rain
	1/4/07	-	-	-	-	1460	-	-	
	12/4/07	5.1	54	18	9	1450	10	0.06	
	22/4/07	-	-	-	-	1520	-	-	
	23/4/07	-	-	-	-	1510	-	-	
	29/4/07	-	-	-	-	1410	-	-	18mm rain
	6/5/07	-	-	-	-	1420	-	-	
	15/5/07	5.98	68.5	13.55	6.73	1410	8.2	<0.01	SCA Field Data
	26/5/07	-	-	-	-	970	-	-	48mm rain
	1/6/07	-	-	-	-	1040	-	-	8mm rain
	14/6/07	-	-	-	-	870	-	-	88mm rain
	22/6/07	-	-	-	-	1170	-	-	35mm, no frogs
	30/6/07	6.1	53	8.5	7	1230	15	0.04	34mm, muddy
	23/7/07	6.4	55	8	7	1210	10	0.03	Rusty creekbed
	29/7/07	-	-	-	-	1180	<10	-	Rusty creekbed, no frogs
	28/8/07	-	-	12.5	6.5	1120	10	-	25mm rain, rusty coloured water
	7/9/07	-	-	10.5	7	1050	<10	-	Rusty creekbed, no frogs
	27/9/07	-	-	13.5	6	1010	10	-	Oil slick on surface, milky, no frogs
	11/10/07	-	-	16	6	1010	10	-	Oil slick on surface, slightly turbid
	30/10/07	-	-	-	-	1140	10	-	Oil slick with round silver blobs
	4/11/07	-	-	-	-	-	200	-	Turbidity after 50mm storm overnite
	30/11/07	-	-	19.5	-	1140	10	-	150mm rain Nov, muddy/milky
	31/12/07	-	-	22	-	1220	15	-	Rust colour water, rust on creekbed
	20/1/08	-	-	18	6.5	890	30	-	Muddy after 70mm rain o'nite
	2/3/08	-	-	15	-	1200	10	-	71 mm rain. Slightly muddy
	2/4/08	-	-	15.5	6.5	1040	10	-	Oil slick, flowing, rusty creekbed
	30/7/08	-	-	8	-	1150	10	-	Flowing, slight oil slick
	30/9/08	-	-	13.5	6	1100	10	-	Flowing, rusty colour, iron odour
	31/10/08	3.1	34	18	5.5	1110	10	0.08	
	25/1/09	5.0	58	22	6	1120	<10	0.06	Milky/rust colour, good flow, Gambusia
25/2/09	-	-	22.5	6.5	1120	<10	-	Yellow/rusty, flowing, 30mm rain 7 day	
1/4/09	-	-	17.5	6	1200	10	-	20mm o/nite,rusty,good flow,Gambusia	
31/5/09	-	-	10	6	1390	<10	-	Blue/grey, oil slick	
28/6/09	-	-	9.5	6.5	1510	<10	-	Flowing well, clear, slight oil slick	
28/7/09	-	-	9	6	1500	15	-	Higher flow than usual, iron odour, yellow	
1/9/09	-	-	8.5	6	1290	<10	-	Usual flow, oil slick on surface. Iron odour	

9/9/09								EPA Pollution Reduction Notice to Lambert's Gully Mine to reduce EC, Zn, Al, Ni, Mn in discharge from LDP006
30/9/09	-	-	12	-	1310	10	-	Yellow, oily scum on surface
6/11/09	-	-	17	6	1650	15	-	Yellow/brown, pronounced oil slick
12/12/09	-	-	19	-	1420	10	-	Low flow, rusty muck on surface, yellow
11/2/10	1.6	17	20	5.5	1180	15	-	60mm rain w'end, brown, oil slick, low DO
12/3/10	7.0		16	6	1750	<10	-	High flow, slightly milky, poss. Gambusia
10/9/10	-	-	-	-	-	-	-	Centennial dispute above but agree to try and reduce Ni, Zn & EC
29/7/11	-	-	-	-	-	-	-	Julie attended inspection of LDP6 with Rob Hunt, a lot of work done, aim to concrete-line creek as high metals are leaching from chitter previously dumped in creek bed
April 2012					2170			Springvale Coal Services Enviro Monitoring Report April 2012: A total of 101.6 ML of water was discharged from LDP006 during April 2012, averaging 3.4 ML/day. Max was 6592 kL on 23 April 2012
May 2012					2190			Monitoring Report April 2012
June 2012					1130			Monitoring Report June 2012
July 2012					554			Monitoring Report July 2012
Aug 2012					1380			Monitoring Report August 2012
Sept 2012					1480			Monitoring Report August 2012
26/9/12	-	-	-	-	>1999	-	-	Flowing. Confronted by defensive aggressive Big Rim staff member
Oct 2012					1498			Monitoring Report October 2012
22/11/12	-	-	-	-	>1999	-	-	Murky
Nov 2012					2130			Monitoring Report November 2012
Dec 2012					2610			Monitoring Report December 2012
10/1/13	-	-	-	-	>1999	-	-	Brownish-milky
Jan 2013					1340			Monitoring Report January 2013
Feb 2013					1860			Monitoring Report February 2013
7/3/13	-	-	-	-	>1999	-	-	Grey-blue
7/3/2013					2590			Monitoring Report March 2013.
23/4/13	-	-	-	-	>1999	-	-	Milky-blue

April 2013					2790			Monitoring Report April 2013.
May 2013					2490			Monitoring Report May 2013.
June 2013					1100			Monitoring Report June 2013.
July 2013					3000			Monitoring Report July 2013.
Aug 2013					3180			Monitoring Report August 2013.
Sept 2013					3140			Monitoring Report September 2013.
Oct 2013					NA			Monitoring Report Oct 2013. NA
Nov 2013					NA			Monitoring Report November 2013.
Dec 2013					NA			Monitoring Report December 2013.
Jan 2014					NA			Monitoring Report January 2014.
Feb 2014					NA			Monitoring Report February 2014
Mar 2014					2920			Monitoring Report March 2014.
April 2014					3040			Monitoring Report March 2014.
May 2014					3250			Monitoring Report May 2014.
June 2014					3040			Monitoring Report June 2014.
July 2014					NA			Monitoring Report July 2014.
Aug 2014					2136			Monitoring Report August 2014.
7/9/14	-	-	-	-	>1999	-	-	Murky
Sept 2014					3080			Monitoring Report September 2014
Oct 2014					1620			Monitoring Report October 2014
Nov 2014					NA			Monitoring Report November 2014
Dec 2014					3670			Monitoring Report December 2014
Jan 2015					4194, 4330			Monitoring Report January 2015
Feb 2015					3420, 4550			Monitoring Report February 2015
Mar 2015					4480, 4530			Monitoring Report March 2015
April 2015					2220			Monitoring Report April 2015
May 2015					4000			Monitoring Report May 2015
24/5/15	-	-	-	-	>1999	-	-	No great flow, grey green, photo
June 2015					3340			Monitoring Report June 2015
July 2015					2810			Monitoring Report July 2015
Aug 2015					3780			Monitoring Report August 2015
Sept 2015					2030			Monitoring Report September 2015
Nov 2015					1870			Monitoring Report November 2015
Dec 2015					4550			Monitoring Report December 2015
12/1/16	-	-	-	-	>1999	-	-	Flowing well
Jan 2016					1703			Monitoring Report January 2016
09/02/16	-	-	-	-	>1999	-	-	Flowing, 200mm rain in January

<i>Feb 2016</i>					<i>4690, 4560</i>			<i>Monitoring Report February 2016</i>
<i>09/03/16</i>	-	-	-	-	<i>>1999</i>	-	-	<i>Flowing</i>
<i>Mar 2016</i>					<i>4900</i>			<i>Monitoring Report March 2016</i>
<i>10/4/16</i>	-	-	-	-	<i>>1999</i>	-	-	<i>Flowing, salt visible roadside drain</i>
<i>03/05/16</i>	-	-	-	-	<i>>1999</i>	-	-	<i>Rusty slick on water surface</i>
<i>April 2016</i>				<i>6.6</i>	<i>4550</i>	<i>8 mg/L</i>		<i>Monitoring Report April 2016</i>
<i>May 2016</i>					<i>4520</i>			<i>Monitoring Report April 2016</i>
<i>June 2016</i>					<i>5190</i>			<i>Monitoring Report June 2016</i>
<i>July 2016</i>					<i>4660</i>			<i>Monitoring Report July 2016</i>
<i>Aug 2016</i>					<i>2160</i>			<i>Monitoring Report August 2016</i>
<i>Sept 2016</i>					<i>3540</i>			<i>Monitoring Report September 2016</i>
<i>Oct 2016</i>					<i>3500</i>			<i>Monitoring Report October 2016</i>
<i>Nov 2016</i>					<i>3510</i>			<i>Monitoring Report November 2016</i>
<i>Feb 2017</i>					<i>4290</i>			<i>Monitoring Report February 2017</i>
<i>Mar 2017</i>					<i>4670</i>			<i>Monitoring Report March 2017</i>
<i>April 2017</i>					<i>4820</i>			<i>Monitoring Report April 2017</i>
<i>May 2017</i>					<i>5160</i>			<i>Monitoring Report May 2017</i>
<i>June 2017</i>					<i>5930</i>			<i>Monitoring Report June 2017</i>
<i>July 2017</i>					<i>5080</i>			<i>Monitoring Report July 2017</i>
<i>Aug 2017</i>					<i>5000</i>			<i>Monitoring Report August 2017</i>
<i>Sept 2017</i>					<i>6680</i>			<i>Monitoring Report Sept 2017</i>
<i>23/11/17</i>			<i>20.6</i>	<i>6.33</i>	<i>>1999</i>			<i>TDS 4.45ppm. Very rusty slick</i>
<i>Nov 2017</i>					<i>6000</i>			<i>Monitoring Report November 2017</i>
<i>Jan 2018</i>					<i>6400</i>			<i>Monitoring Report January 2018</i>
<i>Feb 2018</i>					<i>5540</i>			<i>Monitoring Report February 2018</i>
<i>Mar 2018</i>					<i>5930</i>			<i>Monitoring Report March 2018</i>
<i>17/5/2018</i>					<i>>1999</i>			<i>Flowing well, rusty slick, took photo</i>
<i>Apr 2018</i>					<i>6460</i>			<i>Monitoring Report April 2018</i>
<i>May 2018</i>					<i>6400</i>			<i>Monitoring Report May 2018</i>
<i>June 2018</i>					<i>6290</i>			<i>Monitoring Report June 2018</i>
<i>July 2018</i>					<i>6300</i>			<i>Monitoring Report July 2018</i>
<i>August 2018</i>					<i>7780</i>			<i>Highest ever recorded Salinity level</i> <i>Monitoring Report August 2018</i>
<i>Sept 2018</i>					<i>ND</i>			<i>ND = No Discharge, apparently?</i>
<i>Oct 2018</i>					<i>7180</i>			
<i>Nov 2018</i>					<i>6010</i>			
<i>Dec 2018</i>					<i>5870</i>			

Jan 2019					5170			
Feb 2019					4880			
March 2019					4490			
April 2019					4600			
May 2019					4600			
June 2019					4390			
July 2019					5010			
Aug 2019					ND			ND = No Discharge, apparently???
7/8/2019					>1999			
Sept 2019					4960			
Oct 2019					5560			
Nov 2019					5220			
Dec 2019								
4/12/2019					>1999			1:30pm
5/1/2020	-	-	-	-	>1999	-	-	10.30am – no flow
24/3/2020				5.7	7400			Hunter Enviro Centre Monitoring
Mar 2020					5180			Monitoring Report March 2020
April 2020					5170			Monitoring Report April 2020
May 2020					1200			Monitoring Report May 2020
June 2020					5190			Monitoring Report June 2020
July 2020					3810			Monitoring Report July 2020
Aug 2020					3780			Monitoring Report Aug 2020
Sept 2020					3410			Monitoring Report Sept 2020
Oct 2020					3920			Monitoring Report Oct 2020
Nov 2020					3380			Monitoring Report Nov 2020
Dec 2020					3210			Monitoring Report Dec 2020
Jan 2021					1,601			Collated Monitoring Report 2021
Feb 2021					2,770			Collated Monitoring Report 2021
Mar 2021					3,240			Collated Monitoring Report 2021
Apr 2021					3240			Collated Monitoring Report 2021
May 2021					3,400			Collated Monitoring Report 2021
Jun 2021					3,180			Collated Monitoring Report 2021
Jul 2021					3,490			Collated Monitoring Report 2021
Aug 2021					3,250			Collated Monitoring Report 2021
Sept 2021					2,830			Collated Monitoring Report 2021
Oct 2021					3120			Collated Monitoring Report 2021

3/11/2021					3490			<i>Collated Monitoring Report 2021</i>
1/12/2021					2870			<i>Collated Monitoring Report 2021</i>
5/1/2022					2670			<i>Collated Monitoring Report 2022</i>
2/2/2022					2520			<i>Collated Monitoring Report 2022</i>
2/3/2022					2570			<i>Collated Monitoring Report 2022</i>
6/4/2022					2269			<i>Collated Monitoring Report 2022</i>
19/5/2022					2490			<i>Collated Monitoring Report 2022</i>
2/6/2022					2660			<i>Collated Monitoring Report 2022</i>
7/7/2022					2220			<i>Collated Monitoring Report 2022</i>
3/8/2022					2340			<i>Collated Monitoring Report 2022</i>
8/9/2022					2920			<i>Collated Monitoring Report 2022</i>
6/10/2022					2120			<i>Collated Monitoring Report 2022</i>
3/11/2022					2550			<i>Collated Monitoring Report 2022</i>
1/12/2022					2690			<i>Collated Monitoring Report 2022</i>
5/1/2023					2614			<i>Monitoring Report Jan 2023</i>
9/2/2023					3320			<i>Monitoring Report Feb 2023</i>
2/3/2023					2970			<i>Monitoring Report Mar 2023</i>
12/4/2023					3470			<i>Monitoring Report Apr 2023</i>
4/5/2023					2610			<i>Monitoring Report May 2023</i>
8/6/2023					3960			<i>Monitoring Report Jun 2023</i>
8/7/2023					3376			<i>Monitoring Report Jul 2023</i>
3/8/2023					3340			<i>Monitoring Report Aug 2023</i>
7/9/2023					3643			<i>Monitoring Report Sept 2023</i>
28/9/2023	-	-	-	-	>1999	-	-	Murky
4/10/2023	-	-	-	-	3461	-	-	<i>Monitoring Report Oct 2023</i>
2/11/2023	-	-	-	-	3870	-	-	<i>Monitoring Report Nov 2023</i>
7/12/2023	-	-	-	-	2940	-	-	<i>Monitoring Report Dec 2023</i>
4/1/2024	-	-	-	-	3150	-	-	<i>Monitoring Report Jan 2024</i>
1/2/2024	-	-	-	-	2882	-	-	<i>Monitoring Report Feb 2024</i>
22/2/2024	-	-	-	-	2329	-	-	<i>Monitoring Report Feb 2024</i>
2/03/2024	-	-	-	-	990	-	-	Very variable readings: 950 - 1070
7/03/2024	-	-	-	6.9	2960	3.6	-	<i>Monitoring Report Mar 2024</i>
4/04/2024	-	-	-	-	>1999	-	-	Rusty oil slick, photo taken
4/05/2024	-	-	-	-	>1999	-	-	Flowing. Rusty oil slick
6/6/2024	-	-	-	-	3,516	-	-	<i>Monitoring Report May 2024</i>
26/7/2024	-	-	-	-	1470-1560	-	-	Slight flow. EC very variable

19	Un-named Creek, Castlereagh Hwy, Blackman's Flat (downstream Mt Piper power station, 150m SE of Site 5) -33.35098 150.04369 Altitude: 919m	30/1/07	-	-	-	-	1680	-	-	
		13/2/07	-	-	-	-	1460	-	-	39mm rain
		19/2/07	-	-	-	-	1480	-	-	10mm rain
		1/4/07	-	-	-	-	1280	-	-	
		21/5/07	-	-	-	-	1210	-	-	48mm rain
		26/5/07	-	-	-	-	1320	-	-	
		1/6/07	-	-	-	-	1320	-	-	8mm rain
		14/6/07	-	-	-	-	1010	-	-	88mm rain, muddy
		30/6/07	-	-	-	-	910	-	-	200mm+ rain June, grey
		15/7/07	-	-	-	-	990	<10	-	Iced-over surface
		19/7/07	-	-	-	-	1030	<10	-	Ice d-over surface
		29/7/07	-	-	-	-	1080	<10	-	Ice d-over surface
		28/8/07	-	-	-	-	1070	<10	-	25mm rain. Flowing slightly.
		9/9/07	-	-	9.5	7.5	1100	<10	-	Clear, some frog calls
		11/10/07	-	-	-	-	-	-	-	Bone dry for first time ever
		30/10/07	-	-	-	-	1140	<10	-	
		4/11/07	-	-	-	-	-	100	-	Turbidity after 50mm storm overnite
		30/11/07	-	-	16	-	1020	<10	-	150mm rain Nov,
		31/12/07	-	-	22	-	960	20	-	Not flowing, muddy
		2/3/08	-	-	15	-	860	<10	-	71 mm rain during week
		2/4/08	-	-	15	-	910	<10	-	Not flowing
		29/5/08	-	-	8	-	1050	<10	-	15mm rain o'nite, slight flow
		30/7/08	-	-	5	-	1050	<10	-	Flowing slightly, iced-over, clear
		30/9/08	-	-	11	-	930	<10	-	Slight flow
		31/10/08	-	-	17	-	880	15	-	Slight flow, slightly muddy
		25/11/09	-	-	-	-	-	-	-	Bone dry, for only the 2nd time ever
		1/4/09	-	-	16	-	950	<10	-	20mm rain o/nite, flowing
		31/5/09	-	-	9	-	1140	<10	-	Slight flow, 70mm rain last 7 days
		28/6/09	-	-	6	-	1240	<10	-	Slight flow, rain o'nite
		30/9/09	-	-	-	-	1140	<10	-	Slight flow
		7/11/09	-	-	-	-	-	-	-	Bone dry, for only the 3rd time ever
		12/12/09	-	-	-	-	-	-	-	Bone dry
		11/2/10	-	-	17.5	-	1010	<10	-	60mm rain w'end, flowing
12/3/10	-	-	15	-	1360	<10	-	Slight flow		

20	Cox's River, Duddawarra Bridge, Coxs River Rd, S side of bridge, 75km from start Coxs R -33.618093 150.161409 Altitude: 578m	21/12/06	6.2	68	20	8	760	<10	0.09	12mm rain
		21/1/07	1.8	20	23.5	7	580	10	0.39	69mm rain
		16/4/07	8.5	90	18	8	590	<10	0.04	
		15/5/07	7.76	89	13.55	7.8	597	46.1	0.01	<i>SCA Field Data</i>
		28/6/07	7.4	61	7.5	7	170	60	0.07	200mm+ rain June
		26/7/07	5.5	46	8	7	250	<10	0.08	Tea coloured
		26/8/07	4.9	43	9	7	240	10	0.07	25mm rain, tea colour, lots frogs
		27/9/07	6.7	66	14.5	7.5	330	<10	0.05	Tea color, lots frogs, birds, ducks
		9/3/08	5.6	66	21	7	270	<10	0.11	7mm rain, Tea colour, moorhens
		26/2/09	5.0	58	21	7	220	<10	0.13	Clear, 30 mm rain last 7 days
		1/9/09	7.2	69	11	8	300	<10	0.08	Clear, recent rain, frog calls
		16/8/15	-	-	-	-	410	-	-	Clear, flowing well
		10/9/15	-	-	-	-	450	-	-	
		19/11/15	-	-	-	-	450	-	-	
		09/02/16	-	-	-	-	470	-	-	
		09/03/16	-	-	-	-	550	-	-	
		10/4/16	-	-	-	-	580	-	-	
		03/05/16	-	-	-	-	580	-	-	
		15/11/16	-	-	-	-	510	-	-	
		16/2/17	-	-	-	-	530	-	-	
		21/8/17	-	-	-	-	500	-	-	
		15/10/17	-	-	-	-	590	-	-	580 at Boris's
		17/4/18	-	-	17.1	-	690	-	-	2 nd Highest since 21/12/06
		27/05/19	-	-	-	-	720	-	-	Drizzly, snow fell 1 hr later
5/12/2019	-	-	-	-	830	-	-			
9/1/2020	-	-	22	-	810	-	-	Flowing, Energy/Aust release?		
28/9/2023	-	-	-	-	270	-	-	Flowing well		
21	Thompson's Ck Dam, Willow Vale Rd, Wang S 33° 25' 46.80" E 150° 0' 36.72" Altitude 922m	3/1/2007	-	-	-	-	550	-	-	
		3/6/2009	-	-	11	-	590	<10	-	41% capacity. Higher than last time
		30/9/2023	-	-	-	-	510	-	-	94.5% capacity (Energy Aust website). Discharge pipe at base of dam into Thompsons Ck/Pipers Flat Ck gushing. Photos taken. Thompson's Ck Portland - Wallerawang Rd = 500EC. Pipers Flat Ck Bray's Lane = 510EC

22	Cox's River, Marrangaroo National Park between Lake Wallace & Lake Lyell (Mt Walker Fire Trail) Approx. 5km downstream from Lake Wallace, about 27km downstream from headwaters. -33.470274 150.082585 Altitude: 812m	1/5/07	6.7	66	14	8	1770	15	0.01	Water grey
		3/5/07	5.6	57	14	8	1770	15	0.43	Water grey
		7/5/07	-	-	-	-	1880	-	-	Water grey
		10/5/07	-	-	-	-	1810	-	-	Water grey
		15/5/07	10.93	122.9	12.56	8.62	1970	19.7	0.15	SCA Field Data
		17/5/07	-	-	-	-	1650	-	-	3mm rain, grey
		24/5/07	-	-	-	-	1520	-	-	48mm rain, grey
		1/6/07	-	-	-	-	1610	-	-	200mm+ rain June, grey
		19/7/07	7.3	58	6	8	480	20	0.09	Flowing, water grey
		22/7/07	-	-	-	-	1010	15	-	Water grey, odour
		26/7/07	-	-	-	-	970	20	-	Water grey
		17/8/07	-	-	9.5	-	1270	15	-	8mm rain yesterday, water grey
		31/8/07	8.1	73	11.5	8.5	960	15	0.09	25mm rain, grey/green
		11/10/07	-	-	17.5	8.5	1370	<10	-	Much clearer than usual
		4/11/08	4.7	48	16	7.5	670	<10	0.16	Clearer than before, more bullrushes
		31/1/09	4.4	50	21	7.5	760	<10	0.40	Clearer than usual, lots of cumbungi
		3/6/09	7.6	70	11	8	850	<10	-	Flowing, clear, Lake W <u>not</u> overflowing
		5/9/09	7.4	69	10	8.5	1090	<10	0.17	Flowing, clear, Lake W <u>not</u> overflowing
		3/11/09	6.0	78	22	8	1340	<10	0.34	Flowing, clear, Lake W <u>not</u> overflowing
		11/12/09	6.5	-	20	8	1320	<10	0.44	Flowing, clear, Lake W <u>not</u> overflowing
		13/3/10	9.0	-	17.5	8	1410	<10	0.32	Rotten egg gas odour, <u>not</u> overflowing
		4/8/15	-	-	-	-	760	-	-	Lake Wallace overflowing
		12/1/16	-	-	-	-	810	-	-	A huge tiger snake! Lake overflowing
		09/03/16	-	-	-	-	1020	-	-	
		10/4/16	-	-	-	-	1040	-	-	
		03/05/16	-	-	-	-	1040	-	-	
		16/2/17	-	-	-	-	930	-	-	
		21/8/17	-	-	-	-	1080	-	-	Saw Ranger Pat. Found a lockspit
		9/10/17	-	-	-	-	1110	-	-	Grevillea arenaria in flower
		16/4/18	-	-	18.3	-	1100	-	-	Marrangaroo Ck 30EC, 16 degrees
17/4/18	-	-	-	-	1160	-	-			
21/8/18	-	-	-	-	1230	-	-	Highest since 13/3/10		
20/9/18	-	-	-	-	1080	-	-			
28/5/19	-	-	-	-	1010	-	-	Flowing well		
13/3/2020	-	-	-	-	350	-	-	Flowing well. Assume high inflow from Marrangaroo Ck after rain and fire-cleared catchment		

		15/4/2020	-	-	-	-	390	-	-	
		4/2/2021	-	-	-	-	540	-	-	
		7/9/2022	-	-	-	-	280	-	-	Best ever, in wettest year ever
		11/5/2023	-	-	-	-	550	-	-	Flowing well
		29/9/2023	-	-	-	-	590	-	-	NOW 212058 = 587.3 on 29/9/2023 confirming accuracy LEG meter. NPWS done great job grading road.
		2/11/2023	8.2	-	21.4	8.5	528	0.8	-	NOW Gauge 212058
		2/03/2024	-	-	-	-	541.5	-	-	NOW Gauge 212058 09:00 02/03
		4/04/2024	-	-	16.6	8	484.3	0.9	-	NOW Gauge 212058. 15:15
		7/04/2024	-	-	18.7	7.8	434.9	60.2	-	NOW Gauge 212058. 14:45
		9/05/2024	-	-	-	-	430 (10:50)	-	-	NOW Gauge 212058 = 412.2 17:15
23	<p>“Tortuous Water course”, Rocky Waterhole Drive, Wallerawang – Wang Power Station No. 8 cooling tower blowdown, concentrates from demin plant, and other discharges into Cox’s River below Lake Wallace (includes Springvale Transfer up to June 2008)</p> <p>-33.424450 150.081249 Altitude: 870m</p>	1/5/07	6.9	74	17.5	8	>1999	20	0.65	Water grey
		3/5/07	-	-	-	-	>1999	-	-	Water grey
		6/5/07	-	-	-	-	>1999	-	-	Water grey
		7/5/07	-	-	-	-	>1999	-	-	Water grey
		10/5/07	-	-	-	-	>1999	-	-	Water grey
		13/5/07	-	-	-	-	>1999	-	-	Water grey
		14/5/07	-	-	-	-	>1999	-	-	Water grey
		15/5/07	7.28	91.9	17.82	8.42	2140	46.1	0.22	SCA Field Data
		17/5/07	-	-	-	-	>1999	-	-	Water grey
		24/5/07	-	-	-	-	>1999	-	-	48mm rain, water grey
		1/6/07	-	-	-	-	>1999	-	-	200mm+ rain June, water grey
		14/6/07	-	-	-	-	1800	40	-	88mm rain, water grey
		22/6/07	-	-	-	-	950	40	-	Water grey, rain upstream
		12/7/07	-	-	-	-	1620	40	-	Water grey, froth
		17/7/07	-	-	-	-	1710	40	-	Water grey, froth
		19/7/07	5.6	48	9	8.5	1880	50	0.28	Water grey, has a sewage odour
		22/7/07	-	-	-	-	1820	40	-	Water grey, has a sewage odour
		26/7/07	-	-	-	-	1790	40	-	Photo taken of dirty froth
		4/8/07	-	-	-	8.5	1710	40	-	4mm rain o’nite, dirty grey
		17/8/07	7.3	71	14	8.0	>1999	20	0.16	8mm rain, grey, flow more than usual
	31/8/07	-	-	18	8.5	1840	30	-	25mm rain, grey, froth, 12.5°C in river	
	7/9/07	-	-	17	8.5	>1999	30	-	Water grey, warmer than Cox’s R	

14/9/07	-	-	16	8.5	1840	30	-	Water grey
24/9/07	-	-	16	8.5	1950	30	-	Water grey, 3°C warmer than Cox's
11/10/07	5.6	64	21.5	8.5	>1999	30	0.08	Water grey, 4.5°C warmer than Cox's
4/11/07	-	-	-	-	1870	30	-	Turbidity after 50mm storm overnight
6/12/07	4.1	47	22.5	8.5	1960	20	0.44	150mm rain 23mm 2 days ago
31/12/07	5.0	60	24.5	8.5	1580	30	0.27	Slight detergent/chemical odour
20/1/08	6.0	66	20	8.5	>1999	15	0.58	70mm rain o'nite. Sewage odour.
2/3/08	6.0	62	17	8.5	1940	20	0.78	71 mm rain, red stain on bank
9/4/08	7.2	77	18	8.0	1980	40	0.45	Day after acid spill at Wang Power Station
29/5/08	6.5	59	11	8.0	1830	<10	0.17	Lowest flow ever, just a trickle
17/6/08	-	-	-	-	1930	<10	-	Flowing usual amount, clear, some froth
3/7/08	-	-	10	-	1830	20	-	High flow, lots of dirty froth
29/7/08	-	76	11	8.5	2464	26	-	Uni EC metre, green, froth, organic odour
12/8/08	-	-	9	7.5	>1999	30	-	Flowing well, grey, froth, odour
1/10/08	6.4	64	15	8	1610	20	0.08	Transfer <u>not</u> flowing, less froth, clearer
4/11/08	4.7	50	19	8	1580	15	0.35	Algal smell, Cox's River 14°C,
28/1/09	4.7	56	24.5	8	950	15	0.33	Flowing well, cleaner than usual
1/3/09	5.5	63	21.5	8.5	1480	15	0.40	Flowing well, AP 0.1 in Lake Wallace
1/4/09	5.8	60	18	8	1720	15	-	20mm o'nite, grey
29/5/09	5.9	57	14	8	>1999	20	-	70mm rain. Froth, 4 ⁰ warmer than Lake
28/6/09	-	-	12	8	>1999	10	-	Rain o'nite. Normal flow. 3 ⁰ warmer
1/9/09	6.8	67	12	8.5	1860	<10	0.20	Clear, recent rain, dam <u>not</u> o'flowing
4/11/09	4.6	60	22.5	8.5	1980	10	0.36	Slightly murky, minor froth on surface
11/12/09	5.7		21	8.5	1700	15	0.44	No.8 Unit <u>not</u> operating this week
3/1/10	-	-	-	-	-	-	-	Not flowing , Unit 7 & 8 out over Xmas
10/1/10	5.4		27	9	1380	15	-	Unit 8 still out, Unit 7 started again Sun. Lake not o'flowing, despite rain & STR?
21/2/10	-	-	-	-	-	-	-	Unit 8 started again 21/2/10
12/3/10	7.3		19	7.5	>1999	15	0.83	Lake Wallace <u>not</u> overflowing
19/10/10	8.8	-	18	8.0	>1999	15	0.33	Lake Wallace overflowing
23/1/11	-	-	-	-	-	-	-	Unit 7 out 23/1/11
20/2/11	-	-	-	-	-	-	-	Unit 7 out Sunday, on again Monday
26/9/12	-	-	-	-	1680	-	-	Flow higher than usual, murky
7/9/2014	-	-	-	-	640	-	-	Very low flow, drain cleaned out, Unit 7 & 8 stopped in April 2014?
24/5/15	-	-	-	-	440	-	-	Some flow, prob rainfall runoff
28/9/2023								No longer flows

24	Cox's River, Great Western Highway, Wallerawang -33.427528 150.081303 Altitude: 862m	13/5/07	-	-	-	-	1960	-	-	Water is grey
		17/5/07	-	-	-	-	1900	-	-	3mm rain, grey
		24/5/07	-	-	-	-	1860	-	-	48mm rain, grey
		1/6/07	-	-	-	-	1880	-	-	8mm rain, grey
		14/6/07	-	-	-	-	1270	-	-	88mm rain, grey
		12/7/07	-	-	-	8.5	1620	40	-	Usual froth, grey
		19/7/07	5.7	48	8	8.5	1640	40	0.23	Grey, odour
		26/7/07	-	-	-	-	1580	30	-	Grey
		4/8/07	-	-	-	8.5	1450	40	-	4mm rain o'nite, grey
		17/8/07	-	-	10	8.5	1780	20	-	8mm rain yesterday, grey
		31/8/07	5.7	61	18	8.5	1640	30	0.09	25mm rain, Temp 12.5 ⁰ upstream
		7/9/07	-	-	16	8.5	1760	30	-	Temp 12.5° C upstream of discharge
		24/9/07	-	-	15	8	1470	15	-	Temp 13° C upstream,
		11/10/07	-	-	20.5	8.5	1610	15	-	Temp 17° C upstream
		6/12/07	5.0	58	22.5	8.5	1590	15	0.58	150mm rain Nov 23mm 2 days ago
		31/12/07	6.9	84	24	8.0	1420	20	1.71	Grey/blue, rotten weed/sewage smell
		20/1/08	6.2	66	20	7.5	1600	15	0.44	70mm rain o'nite. Odour. Milky
		2/3/08	5.8	60	17	8.0	1500	15	0.74	71 mm rain, red stain on bank
		17/6/08	-	-	-	-	1410	10	-	Slightly green, s.l. privet fruiting
		3/7/08	-	-	9	7.5	1500	15	-	Grey/green. Odour. SL Privet in fruit
		29/7/08	-	-	10	8	1860	-	-	Grey/green, rich algal odour
		28/1/09	4.4	53	24.5	7.5	820	15	0.40	Slightly murky, organic odour
		3/3/09	5.0		19.5	7.5	1200	10	0.43	Less murky than usual, a crayfish
		1/4/09	5.4	58	18	8	1300	10	-	18mm o/nite, dam wall <u>not</u> o/flowing
		29/5/09	5.5	53	13	8	1820	15	-	70mm rain, grey, dam <u>not</u> overflowing
		28/6/09	-	-	11.5	8	1780	10	-	Rain o'nite, dam wall <u>not</u> overflowing
		1/9/09	6.5	66	13	8.5	1570	<10	0.16	Clearer than usual, dam <u>not</u> overflow'g
		4/11/09	5.1	66	21.5	8	1680	10	0.35	2 water dragons, clear, dam <u>not</u> o'flowg
		12/3/10	7.0		18	8	1630	10	0.64	Lake Wallace <u>not</u> overflowing
		19/10/10	-	-	17	8	1030	10	0.28	Lake Wallace overflowing
7/9/2014					1110			Lake Wallace o/flowing, Tort W/course minimal flow.		
24/5/15	-	-	-	-	940	-	-	Dam overflowing		
24/11/15	-	-	-	-	1060	-	-	Dam overflowing		
28/9/2023	-	-	-	-	660	-	-	Dam overflowing. Thompsons Ck Reservoir transfer operating.		

25	Coxs River, McKanes Falls Bridge -33.549305 150.124166 Altitude: 717m									
		7/5/07	-	-	-	-	740	-	-	
		25/5/07	-	-	-	-	640	-	-	48mm rain
		26/7/07	-	-	-	-	250	<10	-	200mm+ rain in June
		27/9/07	-	-	14	7.5	390	<10	-	A bit turbid, lots frogs, birds
		1/1/08	-	-	-	-	350	<10	-	Froth & bubbles. Floating water weed
		9/3/08	5.7	64	20.5	7.5	340	<10	0.20	7mm storm 2 days ago, tea-tree stain
		30/7/08	-	-	6	7.5	430	<10	-	Flowing well, clear
		30/9/08	-	-	16	-	310	<10	-	Slightly murky, flowing well
		26/2/09	-	-	19.5	7	480	<10	-	Clear, 30mm rain last 7 days
		30/3/09	-	-	17.5	7.5	500	<10	-	Flowing well, clear, Gambusia
		30/4/09	7.3	70	12.5	7.5	460	<10	-	Flowing well, clear
		28/5/09	-	-	11.5	7	350	<10	-	Flowing well, reasonably clear
		29/6/09	-	-	9	7.5	370	<10	-	Flowing well, clear
		28/7/09	-	-	8	-	380	<10	-	Recent rain
		1/9/09	-	-	11	-	330	<10	-	Recent rain, clear
		13/3/10	-	-	14.5	-	650	<10	-	Slightly murky
		5/8/10	-	-	6	-	340	10	-	Slightly murky after heavy rain
		14/1/16	-	-	-	-	590	-	-	Clear
		09/02/16	-	-	-	-	550	-	-	Flowing, 200mm rain in January
		09/03/16	-	-	-	-	590	-	-	
		10/4/16	-	-	-	-	600	-	-	
		03/05/16	-	-	-	-	610	-	-	
		21/8/17	-	-	-	-	540	-	-	
		17/4/18	-	-	19.1	-	700	-	-	
		17/5/18	-	-	-	-	700	-	-	
		20/9/18	-	-	-	-	730	-	-	2 nd highest since 7/5/07
		27/5/19	-	-	-	-	720	-	-	Drizzly, snow flurry
8/1/2020	-	-	24.5	-	790	-	-	Met EPA on site to see EnergyAust water release as per licence. No sign of any water flow today? https://www.lithgowmercury.com.au/story/6565616/increased-water-release-from-mt-piper-power-station-dam/		
9/1/2020	-	-	21	-	800	-	-	Cooler water, so maybe a release?		
28/9/2023	-	-	-	-	280	-	-	Bridge repairs prevented monitoring		

										here last couple of years. Flowing well
26	Cox's R, Glenroy Bridge -33.54917 150.147814 Altitude: 680m 50km from headwaters	7/5/07	-	-	-	-	650	-	-	
		26/7/07	-	-	-	-	250	<10	-	200mm+ rain in June
		27/9/07	-	-	14	7.5	390	<10	-	Milky/green, lots birds
		7/5/18	-	-	-	-	700	-	-	Highest ever
		28/9/2023	-	-	-	-	280	-	-	Flowing well
27	Invincible Colliery Borehole LDP1 (Long Swamp, Ben Bullen State Forest) 33°18'32.90"S 150° 05'37.90"E Altitude: 954m	10/6/07	-	-	-	-	1400	-	-	83mm rain, Fe/Mn slime
		14/6/07	-	-	-	-	1400	-	-	5mm more rain, Fe/Mn slime
		18/6/07	-	-	-	-	1400	-	-	25mm, No Frogs, Fe/Mn slime
		22/6/07	-	-	-	-	1360	-	-	35mm, No Frogs, Fe/Mn slime
		28/6/07	4.5	42.3	19.8	6.58	1649	7.2	-	SCA Sampling Data. Anoxic smell
		18/7/07	1.5	16.9	20.1	6.57	1648	1.7	-	SCA Sampling Data. Anoxic smell
		20/7/07	3.8	40	18	6.5	1370	<10	0.02	Temp 10° higher than creek, Fe/Mn
		28/7/07	-	-	-	-	-	-	-	Not flowing today, Fe/Mn slime
		27/8/07	-	-	-	-	-	-	-	Not flowing today, Fe/Mn slime
		7/9/07	-	-	-	-	-	-	-	Not flowing, 2 dead Euc & Lepto
		11/10/07	-	-	-	-	-	-	-	Not flowing, Lepto' sooty-mould
		2/3/08	-	-	-	-	1350	-	-	Low flow, Rotten egg gas odour
		1/4/08	-	-	-	-	1380	-	-	Huge flow, Rotten egg gas odour
		7/4/08	-	-	-	-	1370	-	-	Huge flow, Rotten egg gas odour
		29/5/08	-	-	-	-	1280	-	-	Not flowing, 15mm rain o'nite
26/2/11	-	-	-	-	-	-	-	Pump dismantled, bore dam graded to cover unsightly rust deposits		
28	Cox's River, Ben Bullen State Forest (approx 1km downstream from above Invincible LDP/borehole) 33°18' 48.2" S 150° 05' 48.9" E Altitude:	19/10/06	2.6	37	12	5.5	40	<10	-	
		24/1/07	-	-	20	6	40	10	-	38mm rain
		12/4/07	-	-	15	6	50	<10	-	
		10/6/07	-	-	-	-	830	-	-	83mm rain
		14/6/07	-	-	-	-	950	-	-	5mm more rain
		18/6/07	-	-	-	-	920	-	-	25mm rain
		22/6/07	-	-	-	-	690	-	-	35mm rain
		28/6/07	8.8	74.9	8.12	7.18	557	3.0	-	SCA Sampling Data. Flowing, clear
		18/7/07	8.1	69.5	7.9	7.18	1196	0	-	SCA Sampling Data. Flowing, clear

20/7/07	-	-	-	-	1150	<10	-	
28/7/07	-	-	-	-	1170	<10	-	
4/8/07	-	-	-	-	980	<10		Green stringy algae building up
17/8/07	-	-	8	-	850	<10	-	8mm rain yesterday, stringy algae
27/8/07	-	-	9	-	710	<10	-	25mm rain, stringy green algae
7/9/07	-	-	9	6	710	<10	-	Stringy green algae, some frogs
23/9/07	-	-	9	6	700	<10	-	Lots algae, rotten-egg-gas odour
11/10/07	0.3	<10%	12	5.5	670	<10	-	Dead frog, DO v. low, odour
30/11/07	-	-	-	-	560	<10	-	Oil slick, 150mm rain Nov
31/12/07	-	-	22	-	560	<10	-	Yellow flower water lily, Lizard
28/1/08	-	-	17	-	480	<10	-	Oil slick, <i>Nymphoides montana</i>
2/3/08	-	-	-	-	730	<10	-	Oil slick
2/4/08	-	-	-	-	1050	-	-	Oil slick. 820EC 1km downstream
7/4/08	-	-	-	-	1080	-	-	Oil slick. 920EC 1km downstream
29/5/08	3.6	30	7	6	960	<10	0.02	15mm rain o'nite, oil slick
15/7/08	-	-	7	6	920	<10	-	Flowing, light oil slick, rusty deposits
29/7/08	-	-	8	6.5	990	<10	-	Flowing, light oil slick, rusty deposits
30/9/08	-	-	10	-	660	<10	-	Light oil slick.
31/10/08	-	-	14	-	550	<10	-	580EC at next bridge downstream
7/12/08	-	-	-	-	480	<10	-	520EC next bridge, rotten egg odour
26/1/09	-	-	16	-	400	<10	-	500EC next bridge downstream
25/2/09	-	-	17.5	-	390	<10	-	520EC next bridge, 30mm rain 7 days
30/3/09	-	-	14.5	-	370	<10	-	430EC next bridge, no flow
29/4/09	-	-	11	-	380	<10	-	520EC next bridge, no flow
31/5/09	-	-	9	-	390	<10	-	550EC next bridge, slight flow
28/6/08	-	-	7.5	-	420	10	-	580EC next bridge, milky yellow
23/7/09	-	-	7	-	410	<10	-	540EC next bridge, algae on bottom
30/9/09	-	-	-	-	330	<10	-	500EC next bridge, scum on surface
6/11/09	-	-	14	-	340	<10	-	380EC next bridge, surface slick/scum
12/12/09	-	-	-	-	-	-	-	Bone dry 1st time ever, next bridge too
10/2/10	-	-	18	5.5	340	<10	-	60mm rain w'end, water low, "....."
5/7/10	-	-	4.5	-	330	<10	-	530EC 1km downstream
17/3/11	-	-	-	-	-	-	-	Forestry remove bridge 2k downstream, <i>Nymphoides montana</i> may be lost
26/9/12	-	-	-	-	90	-	-	Flowing, clear
1/4/18	-	-	-	-	190	-	-	Totally dry, 1st time ever
27/7/2024	-	-	-	-	60	-	-	Flowing very well

29	Springvale Colliery LDP 4 & 5, Newnes Plateau LDP004: 33° 22' 43.6" S 150°09'46.2"E, Alt: 1150 LDPO05: 33°22'41.8" S 150°09'15.0"E, Alt: 1167	20/3/08	-	-	-	-	1180/1300	-	-	Not flowing, old outlet 1300EC
		31/5/08	5.3	60	22	7.5	1030	10	0.08	Flowing, grey, warm (air temp 14 ^o)
		12/9/08	-	-	23	-	1010	30	-	Milky grey, warm
		21/9/08	5.3	60	22	7	980	30	-	Milky grey, warm
		10/10/08	5.1	60	23	7	1010	40	0.05	AirTemp 18, grey, nearby Ck was 50 EC
		23/10/08	-	-	22	-	980	30	-	Air temp 13, grey, nearby Ck was 60 EC
		6/11/08	-	-	23	7.5	1030	20	-	Both flowing, grey
		28/1/09	4.3	52	25	7.5	950	40	0.07	LDP5, both flowing, grey, ACIRL
		25/2/09	-	-	-	-	-	-	-	No Flow (to Sawyers Swamp Ck)
		8/3/09	-	-	-	-	940	30	-	Slight flow LDP4&5, milky
30	Sunnyside West Swamp Ck (Campbells Rd) Newne's Plateau S 33°21'40.26" E 150°10'42.80" Altitude: 1161m	10/10/08	-	-	13	-	50	<10	-	Flowing well, tea-tree stained
		23/10/08	6.0	59	14	6.5	60	<10	0.02	Recent rain, frog calls, tea-tree stained
		6/11/08	-	-	14	-	40	<10	-	Tea-tree stained, flowing well
		28/1/09	-	-	16	6.5	40	<10	-	Tea-tree stained, flowing well
		8/3/09	-	-	15	6.5	40	<10	-	Flowing, tea-tree stained
		5/7/09	7.2	80	7	7	50	<10	-	Flowing, tea-tree stained, campers
		11/2/10	-	-	15.5	7	30	<10	-	Flowing, frog calls, <i>Veronica blakelyi</i>
		19/5/10	8.8	70	4.5	7	30	<10	0.00	Barely flowing, new V-notch weir up creek
31	Wolgan R, Fire Trail No5 "Spanish Steps" S 33°19'10.76" E 150° 9'23.49"	12/9/08	-	-	-	7	980	10	-	Slightly grey, froth bubbles on surface
		6/11/08	-	-	-	7.5	800	10	-	Slightly grey, tea-tree stained, 2 Lyrebirds
		12/2/2014	-	-	-	-	-	-	-	Totally dry, first time I've seen it so.
		13/4/2021	-	-	-	-	60	-	-	All creek crossings flowing.
32	Wolgan River, Newnes S 33°10'30.87" E 150°14'14.49"	16/11/06	8.0	91	17.5	7.5	80	<10	0.00	
		2/6/08	-	-	-	-	170	-	-	Heavy rain, Springvale bores flowing
		6/5/2018	-	-	-	-	50	-	-	
33	Wollangambe River (below Clarence Colliery) -33.455659° 150.257244°	23/1/07	3.5	42	19	8	250	<10	0.08	40mm rain
		20/9/07	5.4	55	16	7	260	<10	0.00	DO??, 1 hr before testing
		28/1/09	5.7	65	22	7	240	<10	0.11	Clearer than usual, flowing well
		16/12/09	5.8		17.5	7.5	210	<10	-	Clear, good flow, Grev. Gaudi Chaudi
		2/07/2015	-	-	-	-	-	-	-	Clarence Colliery REA 3 collapse dumps 2,330 tonnes of coal fines

										into Wollangambe River.	
		21/12/2023	-	-	-	-	-	-	-	Coal fines spill reported by local resident referred to EPA	
34	Baal Bone LDP3 S 33°15'1.60" E 150° 5'22.60"	15/3/09	-	-	-	-	930	-	-	V. rusty pond floor; 50mm rain last 24 hrs	
		1/4/09	-	-	16	-	850	<10	-	18mm rain o/nite, rusty	
		26/3/10	5.0		24	7	1330	15	0.08	Rusty yellow. Fe on rocks, photo	
		13/1/12	-	-	-	-	1680	-	-	1290 downstream Baal Bone Creek	
		23/11/17	-	-	-	-	-	-	-	Decommissioned since last visit	
35	Carne Creek West S 33° 22' 24.6" E 150° 12' 12.4"	5/4/09	6.2	58	12.5	7	20	<10	-	30mm+ rain last 4 days. Clear. Photo	
		5/7/09	-	-	6.5	7	20	<10	-	Flowing well, crystal clear	
		12/10/14	-	-	-	-	20	-	-	Flowing, clear (photo)	
		27/6/15	-	-	-	-	20	-	-	Flowing (photo)	
		11/12/17	-	-	-	-	-	-	-	Dry as a bone 1st time ever (photo) Springvale LW417-418 undermine site	
		8/4/18	-	-	-	-	-	-	-	Totally dry (photo)	
36	Farmers Creek No. 2 Dam -33.454731 150.206276 Altitude: 1008m	25/2/09	-	-	-	-	110	-	-		
		15/7/09	-	-	-	-	30	-	-	With SMH reporters, clear, 300mm down	
		3/11/09	-	-	20.5	8	90	<10	-	Blue/grey, ClnceTrsfr running, 2m down	
		16/12/09	-	-	-	-	130	-	-	Dam level at 50%, murky grey/green	
		24/8/18 LCC Agenda									"The Clarence Water Transfer Scheme has been operating since 5th October 2017 and since commencing operation has pumped 1,078.9 megalitres of water into Farmers Creek No. 2 dam up to 24/08/18 when the operation of the transfer system was ceased". Note Farmers Ck Site 11 downstream had highest EC level ever.
37	Clarence Transfer old 1984 Pipe - Farmers Ck -33.455889 150.222886	16/12/09	-	-	-	-	230	-	-	Flowing at what appears to be full capacity	

38	Coxs River, Sandy Hook, Ganbenang -33.688207 150.157254	17/4/2018	-	-	16.9	-	680	-	-	
		27/5/2019	-	-	-	-	710	-	-	
		5/12/2019	-	-	-	-	850	-	-	Lots green stringy algae on creekbed water clear. Kanangra fire raging
		20/02/2024	-	-	-	-	260	-	-	Flowing well. Clear
40	Coxs River, Six Foot Track -33.743812° 150.179703°	17/4/2018	-	-	18.7	-	630	-	-	
		27/5/2019	-	-	-	-	680	-	-	Drizzly, snow flurry on way back
		20/02/2024	-	-	-	-	260	-	-	Flowing well. Clear
40	Coxs River, Main Street Wallerawang at bridge - (near NOW Gauge 212054 which is not accurately mapped on NOW website). 33.398100° 150.081208°	17/4/2018	-	-	21.1	-	1340	-	-	
		17/5/2018	-	-	-	-	1380	--	-	
		21/8/2018	-	-	-	-	1290	-	-	NOW Gauge 212054 = 1069 ???
		4/12/2019	-	-	-	-	1700	-	-	NOW Gauge 212054 = No reading last 7 days
		3/1/2020	-	-	-	-	1730	-	-	Dead trout fry. NOW Gauge = No reading last 7 days
		2/11/2023	8.29	-	14.3	7.85	595	28.7	-	
		2/3/2024	-	-	-	-	690	-	-	NOW Gauge 212054 = 688.2 @07:15. Upstream 890EC at Maddox Lane, 500EC Pipers Flat C
		4/04/2024	-	-	-	-	890	-	-	NOW Gauge 212054 = 843.3 15:15
		26/7/2024	-	-	-	-	520	150-200	-	Very turbid, high flow. NOW212054 455.5EC, 0.0 NTU 14:30
		23/9/2024	-	-	13.3	8.0	980	6.7	-	NOW212054 = 997.9 12:45
41	Jew's Creek, Castlereagh Hwy, Ben Bullen. (downstream Baal Bone Colliery LDP3 & LDP6 Altitude: 830m	18/11/2006	-	-	-	-	1130	-	-	
		28/1/2007	-	-	-	-	970	-	-	40mm rain
		1/4/2007	-	-	-	-	780	-	-	
		14/5/2007	-	-	-	-	1070	-	-	
		22/7/2007	-	-	-	-	930	<10	-	200mm+ rain in June

	-33.234797°	28/1/2008	-	-	17.5	-	810	<10	-	70mm rain January
	150.028753°	10/10/2008	-	-	-	-	600	-	-	Lots of rain last few weeks
		1/4/2009	-	-	16	8	850	<10	-	20mm rain o/nite. Rusty upstream
		26/3/2010	4.7	-	20	7.5	1070	<10	0.10	Flowing, clear, a snake
		2/9/2017	-	-	-	-	1140	-	-	Baal Bone LDP3 decommissioned
		5/4/2018	-	-	-	-	1050	-	-	Level up, hard to tell if its flowing
		20/10/2019	-	-	-	-	1030	-	-	Level normal, despite long drought
		11/10/2023	-	-	-	-	1310	-	-	Highest to date. What's going on?
		5/12/2023	-	-	-	-	1220	-	-	60mm+ rain in past week
		30/1/2024	-	-	-	-	1310	-	-	
		12/03/2024	-	-	-	-	1380	-	-	Highest to date. Visibly flowing
		4/04/2024	-	-	-	-	1460	-	-	Highest ever
		4/05/2024	-	-	-	-	1350	-	-	Significant rain during April
		3/06/2024	-	-	-	-	1150	-	-	Rain over last few days
		19/7/2024	-	-	-	-	1230	<10	-	Clear

Other Locations in Region	Date	DO mg/l	DO %	Temp °C	pH	EC µS/cm	Turb NTU	AvP ppm	Comments
Macquarie River, GWH, Bathurst -33.418196° 149.594523°	28/12/2006	-	-	-	-	430	-	-	
	29/1/2007	-	-	-	-	380	-	-	
	13/1/2009	-	-	-	-	260	-	-	
	24/11/2015	-	-	-	-	280	-	-	
	27/9/2017	-	--	-	-	370	-	-	
	21/8/2018	-	-	-	-	360	-	-	
Nepean River, Penrith Nepean Rowing Club -33.745573° 150.683310°	22/1/2007	-	-	-	-	260	-	-	
	8/5/2007	-	-	-	-	310	-	-	
	27/11/2015	-	-	-	-	310	-	-	
	3/5/2019	-	-	-	-	290	-	-	Nepean Rowing Club, 1:20pm
Namoi River, Gunnedah	28/12/2008	-	-	-	-	440	-	-	
Fish River, Tarana	3/1/2007	5.7	60	18	7	170	10	0.10	Lowes Mt Road
	27/9/2017	-	-	-	-	190	-	-	At O'Connell
Oberon Dam, Oberon	29/1/2007	-	-	-	-	80	-	-	

Ben Chifley Dam , Bathurst	29/1/2007	-	-	-	-	360	-	-	
Windermere Dam , Mudgee	28/1/2007	-	-	-	-	640	-	-	
	14/7/2007	-	-	-	-	590	-	-	
Cudgegong River , Rylstone	28/1/2007	-	-	-	-	420	-	-	
Capertee River , Glen Davis -33.100401° 150.231025°	28/1/2008	-	-	-	-	730	-	-	
	3/9/2014	-	-	-	-	1850	-	-	
Turon River , Sofala -33.079688° 149.686579°	28/12/2006	-	-	-	-	680	-	-	Note: Portland STP and old Sunny Corner gold & silver mine upstream
	1/4/2007	-	-	-	-	630	-	-	
Bungleboori Dam , Newnes Plateau	23/1/2007	5.1	61	25	6	30	<10	0.05	40mm rain
Carne Creek , Newnes Plateau	9/12/2007	-	-	-	-	30	-	-	
Dargan Lower Dam Clarence	23/1/2007	-	-	-	-	30	-	-	40mm rain
Wentworth Falls Lake	22/1/2007	-	-	-	-	50	-	-	
Glenbrook Lagoon	22/1/2007	-	-	-	-	160	-	-	
Pope's Glen Ck, Blackheath	3/9/2006	2.1	18	10	6	140	<10	0.00	
Katoomba Falls Creek	14/9/2006	10	-	8	6.5	60	<10	-	
Cullen Ck (downstream of Invincible Colliery) S 33° 18' 54.32" E 150° 02' 10.49"	22/6/2008	-	-	-	6	930	-	-	v. muddy, rain during week
	1/4/2009	-	-	-	-	1080	-	-	v. rusty, 20mm rain o/nite
	22/1/2024	-	-	-	-	860	-	-	Very high flow
Murray/Darling R Junction, Wentworth	26/9/2015					150			
Murray River, Mildura	24/8/2018					130			Water level seems good to high
Murray R. , Murray Bridge	22/10/2015					370			
Murray Bridge. Tapwater						410			
Murray R , Albury/Wodonga	25/10/2015					50			
Murray R. , Narrung Ferry, Jn Lake Alexandrina/Lake Albert	22/10/2015					1440			
Mt Gambier, Tapwater	23/10/2015					710			
Mt Gambier, Valley Lake	23/10/2015					>1999			
Ravensthorpe WA tapwater	27/8/2018					810			
Mount Barker WA tapwater	28/8/2018					810			
Perth WA tapwater	9/9/2018					520			Bottled water 200
Yallingup WA tapwater	11/9/2018					850			

Albany WA tapwater	13/9/2018					810			
Kimba SA tapwater	17/9/2018					430			
Esperance WA, tapwater	20/10/2015					1410			
Snowy R, Dalgetty Weir	31/10/2015					60			
Murrumbidgee R, Balranald	31/10/2015					70			
	29/10/2015					250			
	24/8/2018					220			Flowing
Lachlan River, Cowra	23/8/18					290			Flowing well
Upper Hunter River, Belltrees	24/11/2015					274			Site No: 210039 http://realtime.data.water.nsw.gov.au/water.stm?ppbm=SURFACE_WATER&rskm_org
SNOWY River @ DALGETY WEIR (222026)	20/12/2017					47			http://waterinfo.nsw.gov.au/drr/southcoast.shtml
Our tapwater – Fish R supply	17/4/2018					130			
	5/5/2018					110			Filtered tapwater = 10 us/cm
	1/10/2023					90			
Lithgow Tapwater Endeavour Park	17/4/2018					270			
Lithgow Tapwater – Valley Plaza	5/5/2018	-	-	-	-	270	-	-	
Thompsons Ck Dam transfer into Lake Wallace -33.421519° 150.073932°	5/12/2019	-	-	-	-	770	-	-	Outlet discharging since at least 9 Oct 2017. Lake Wallace = 970 today
	30/9/2023	-	-	-	-	510	-	-	Outlet discharging. Photo taken
	2/03/2024	-	-	-	-	330	-	-	Large discharge, Photo taken
	4/04/2024	-	-	-	-	-	-	-	Not flowing
	6/5/2024	-	-	-	-	-	-	-	Not flowing

* Note: All testing from 20/2/10 is with new equipment received SCA Training Day 20/2/10. Includes new EC meter, Colorimeter, Turbidity tube, Colorimeter, glass bottles for DO and AP, new spoon for AP test, new Streamwatch Manual

* Note: A second high range salinity Metre purchased November 2017. Also reads Temp, pH, TDS.

*Note: Oxygen levels that remain below 1-2 mg/l for a few hours can result in large fish kills.

*Note: Platypus – a 2022 study found Platypus present at 500EC but absent at 700EC. Platypus appear to avoid streams with higher salinity and low dissolved oxygen.

Webb, B., Morrison, K. G., Wright, I. A., & Ryan, M. (2021). The effect of water quality, macroinvertebrate assemblages and habitat suitability on the distribution of Platypuses : a pilot study in Cattai Catchment, North West Sydney. *Proceedings Of The 10Th Australian Stream Management Conference, 2 - 4 August 2021, Online*, 366-373.

* Note: Macroinvertebrates and Salinity – a 2005 study found that the most dramatic shift between groups of different salinity tolerance occurs as conductivity reaches 800-1000 uS/cm and this shift seems to be more pronounced in riffle habitat. This threshold value is lower than the generally accepted value of 1500 uS/cm, above which freshwater ecosystems are likely to experience salinity related stress. (Hart et al. 1991) ([Response of stream macroinvertebrates to changes in salinity and the development of a salinity index N. Horrigan, S. Choy, +1 author F. Recknagel Published 20 October 2005. Environmental Science. Marine and Freshwater Research](#))

* Note: From Australian Platypus Conservancy (<https://platypus.asn.au/>). Three factors have been found to be adversely related to Platypus status 1. Nutrient enrichment (especially elevated levels of Phosphorus in water) 2. The amount of suspended solids in surface water after storms 3. The concentration of metal contaminants (lead, zinc, and cadmium) in bottom sediment. Phosphorus promotes algal blooms and low levels of oxygen, causing many aquatic invertebrates to disappear. Given that Platypus shut their eyes underwater and feed at night, the adverse impact of suspended solids is unlikely to be due to poor water clarity. Instead it's that unconsolidated fine sediment provides poor habitat for most aquatic macroinvertebrates. High levels of metal contaminants affect freshwater fish and macroinvertebrate diversity and abundance. Direct toxic affects could also occur, for example through bioaccumulation. Because heavy metals bind to bottom sediment, they can remain in the environment long after the primary contamination source has been eliminated.

*Temperature Pollution: Western Australia has Water Quality Protection Guidelines for Mining and Mineral Processing – Mine dewatering, which require that ‘Discharge water should not cause the receiving water temperature to vary by more than 2°C from its seasonal background temperature’. <https://www.wa.gov.au/system/files/2022-04/WQPG-11-Mine-dewatering.pdf>

COXS @ WALLERAWANG (212054)		
Level (m)	0.41	Sat 25/Feb/2017 15:00:00
Flow (ML/day)	27	Sat 25/Feb/2017 15:00:00
Water Temp (DegC)	23	Sat 25/Feb/2017 15:00:00
EC 25DegC (uS/cm)	1,204	Sat 25/Feb/2017 13:00:00
EC 25DegC (uS/cm)	1,201	Sat 25/Feb/2017 15:00:00

NEUBECKS CK U/S WALL (212055)		
Level (m)	0.42	Sat 25/Feb/2017 15:00:00
Flow (ML/day)	0	Sat 25/Feb/2017 15:00:00
Water Temp (DegC)	22	Sat 25/Feb/2017 15:00:00
EC 25DegC (uS/cm)	1,767	Sat 25/Feb/2017 14:00:00
EC 25DegC (uS/cm)	1,775	Sat 25/Feb/2017 15:00:00

Water quality (electrical conductivity and temperature)

[View water quality data](#)

These data values are taken from the recording nearest to 6am.

	Saturday	Friday	Thursday	Wednesday	Tuesday	Monday	Sunday
	25-Feb-2017	24-Feb-2017	23-Feb-2017	22-Feb-2017	21-Feb-2017	20-Feb-2017	19-Feb-2017
COXS @ WALLERAWANG (212054)							
Flow (ML/day)	27	30	31	31	31	31	32
Water Temp (DegC)	21	20	20	20	17	18	21
EC 25DegC (uS/cm)	1,215	1,202	1,192	1,205	1,208	1,220	1,224
EC 25DegC (uS/cm)	1,215	1,202	1,192	1,205	1,208	1,220	1,224
NEUBECKS CK U/S WALL (212055)							
Flow (ML/day)	0	0	0	0	0	0	0
Water Temp (DegC)	19	17	17	17	12	14	19
EC 25DegC (uS/cm)	1,729	1,642	1,479	1,290	1,190	1,065	956
EC 25DegC (uS/cm)	1,729	1,642	1,479	1,291	1,190	1,065	956

Table H 8-5 Conductivity (mS/cm) - Catchment Sites (to convert mS/cm to uS/cm multiply by 1000)

Coxs River @ Kelpie Point Mid Coxs River

Historic: 0.180 (N=80)

1995 – 1998: 0.117 (N=134)

1998 – 2001: 0.136 (N=246)

2001 – 2004: 0:103 (N=201)

2003 – 2007: 0.116 (N=277)

2007 – 2010: 0.141 (N=66)

2010 – 2013: 0.163 (N=36)

GUIDELINE LIMIT: 350 µS/cm

ACTUAL READING: 6,680 μ S/cm

Electrical Conductivity of water samples is used as an indicator of how salt-free, ion-free, or impurity-free the sample is; the purer the water, the lower the conductivity.

DISTANCE TRAVELLED

From Headwaters (Site 1) by river to Six Foot Track is 95km. By road from home to test the various sites works out at roughly a 123.6 km drive –

- 1. Home to LDP006 = 3km return**
- 2. Home to Maddox Lane = 4.1km**
- 3. Maddox Lane to Site 1 = 20km return**
- 4. Maddox Lane to Lake Wallace site = 5.8km**
- 5. Maddox Lane to GWH Marrangaroo NP turnoff = 3.76km**
- 6. GWH to Marrangaroo NP site return = 12km**
- 7. GWH Marrangaroo NP turnoff to Lake Lyell Turnoff = 14.3**
- 8. GWH to Lake Lyell site = 12km return**
- 9. GWH Lake Lyell turnoff to Six Foot Tr = 41km**
- 10. Duddawarra deviation = 7.2km**