Boonoo Boonoo Discharge and Monitoring Point 9

Analyte	Unit	PQL	Date Sampled																																								
			10/12/2013	3/3/2014	9/09/2014	4/12/2014	10/3/2015	15/09/2015	8/12/2015	15/03/2016	21/06/2016	8/11/2016	5/12/2016	28/03/2017	8/06/2017	7/09/2017	13/12/2017	3/04/2018	15/06/2018	28/09/2018	26/10/2018	19/06/2019	13/12/2019	1/04/2020	26/06/2020	1/04/2021	21/09/2021	13/12/2021	7/03/2022	30/05/2022	20/09/2022	7/12/2022	31/03/2023	30/06/2023				Min Since 10/12/2013	Mean Since 10/12/2013	Max Since 10/12/2013
			Sample No. 13/2166	Sample No. 14/0336	Sample No. 14/552	Sample No. 14/3042	Sample No. 15/1422	Sample No. 15/1497	Sample No. 15/1880	Sample No. 16/0474	Sample No. 16/0896	Sample No. 16/1807	Sample No. 16/1969	Sample No. 17/0521	Sample No. 17/0935	Sample No. 17/1480	Sample No. 17/2051	Sample No. 18/0547	Sample No. 18/0948	Sample No. 18/1489	Sample No. 18/1850	Sample No. 19/1019	Sample No. 19/2126	Sample No. 20/0583	Sample No. 20/0891	Sample No. 21/0474.6	Sample No. 21/1276.6	Sample No. 21/1866.8	9 (ALS)	Sample No. 22/0688.7	Sample No. 22/1156.7	Sample No. #/9	Sample No. #/9	Sample No. #/9						
Water Level#	m	0.1			[NT]			ND	ND		NT	NT	NT	NT	NT	Flowing		Flowing	Low Flow	Dry	NA	Dry	Dry	Dry	Dry		3.0in	1.5	3m	1.3m	1.5m			2.6						
Temperature - field	Deg. C	0.1	19.6	16.2	9			7.2	12.8		9.6	11.2	15.4	17.2	10.6	10.5		17.5	8.8	0	15	0	0	0	0	18.6	10.7	14	18	12.5	12.1		17.4	11.1				0.00	10.74	18.60
Dissolved Oxygen	mg/L	0.2	7	5.6	9.04			9.1	7.7		8.1	7.9	4.6	7.7	9.2	10.5		8.7	8.8	0	8.4	0	0	0	0	7.6	7.5	5.2	9.3	nt	7.2	7	7	7.8				0.00	5.26	9.30
Alkalinity (as CaCO3)	mg/L	20	20	<20	<20			<20	<20		<20	<20	28	<20	<20	<20		<20	<20	0	<20	0	0	0	0	<20	<20	<20	16	<14	<14	<14	<14	<14				0.00	5.33	16.00
Aluminium (Dissolved)	mg/L	0.005	0.657	0.4	0.73			0.31	0.33		2.2	0.59	0.15	0.85	0.22	0.21		0.27	0.19	0	1.27	0	0	0	0	1.19	0.032	0.051	0.02	0.094	0.085	0.0054	0.0049	0.17				0.00	0.18	1.19
Ammonia-N	mg/L	0.01	0.04	<0.01	0.02			0.01	0.02		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		0.06	0.01	0	0.03	0	0	0	0	0.02	<0.01	<0.01	0.02	0.17	0.11	0.087	0.038	0.028				0.00	0.05	0.17
Arsenic (Dissolved)	mg/L	0.005	<0.005	<0.005	<0.005			<0.005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005		<0.005	<0.005	0	<0.005	0	0	0	0	<0.005	<0.005	<0.005	<0.001	<0005	0.00015	0.00012	0.00026	0.00032				0.00	0.00	0.00
Cadmium (Dissolved)	mg/L	0.005	<0.005	<0.005	<0.005			<0.005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005		<0.005	<0.005	0	<0.005	0	0	0	0	<0.005	<0.005	<0.005	<0.0001	<0.0005	5	0.00021	0.000072	0.001				0.00	1.67	5.00
Calcium	mg/L	0.1	6.2	2.7	0.5			0.6	0.8		0.6	0.7	7.3	0.8	0.6	0.6		0.4	0.9	0	0.9	0	0	0	0	0.8	1.8	1.1	<1	0.8	5	3.2	2.2	1.9				0.00	1.36	5.00
Chloride	mg/L	2	12.99	11.74	10.72			11	9		8	10	12	10	11	11		9	13	0	11	0	0	0	0	9	21	15	15	15	91	70	65	54				0.00	20.75	91.00
Chromium (Total)	mg/L	0.005	0.007	0.005	<0.005			<0.005	<0.005		<0.005	<0.005	0.009	0.01	<0.005	<0.005		<0.005	<0.005	0	<0.005	0	0	0	0	<0.005	0.007	<0.005	0.002	<0.0005	<0.0005	0.0075	<0.0005	0.0014				0.00	0.00	0.01
Cobalt (Dissolved)	mg/L	0.005	<0.005	<0.005	<0.005			<0.005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005		<0.005	<0.005	0	<0.005	0	0	0	0	<0.005	<0.005	<0.005	<0.001	0.0003	0.0003	0.0025	0.0013	0.0013				0.00	0.00	0.00
Electrical Conductivity	µS/cm	1	63.5	63.8	57.1			58	51		47	55.8	67.6	60.4	58.6	62.8		51.5	62.6	0	61.8	0	0	0	0	50.6	84.4	78.1	77	85	320	260	240	190				0.00	86.89	320.00
Copper (Dissolved)	mg/L	0.005	<0.005	<0.005	<0.005			<0.005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005		<0.005	<0.005	0	<0.005	0	0	0	0	<0.005	<0.005	<0.005	<0.001	<0.0005	0.002	0.0062	0.0047	0.018				0.00	0.00	0.00
Iron (Total)	mg/L	0.005	16.9	9.061	0.53			0.26	3.48		0.75	1.3	15.9	0.7	0.23	0.68		0.67	1.2	0	0.75	0	0	0	0	10.5	8.4	1.9	1.42	0.41	0.94	1.4	2.3	2.8				0.00	2.95	10.50
Lead (Dissolved)	mg/L	0.005	<0.005	<0.005	<0.005			<0.005	<0.005		0.005	<0.005	<0.005	<0.005	<0.005	0.019		<0.005	<0.005	0	0.005	0	0	0	0	<0.005	<0.005	<0.005	<0.001	0.001	0.005	0.0013	0.0017	0.003				0.00	0.00	0.01
Magnesium	mg/L	0.1	3.1	1.4	0.6	Dry	Dry	0.5	0.8	Dry	0.8	0.7	3.4	0.8	0.5	0.5		0.5	0.8	0	0.6	0	0	0	0	2.1	1.6	0.9	<1	0.72	7.3	4.7	3.2	3.1				0.00	1.80	7.30
Manganese (Total)	mg/L	0.005	0.584	0.146	0.005			0.005	0.64		0.008	0.029	0.38	0.013	<0.005	0.017		0.01	0.021	0	0.008	0	0	0	0	0.11	0.073	0.045	0.055	0.038	0.24	0.039	0.09	0.081				0.00	0.07	0.24
Mercury*	ug/L	0.05	<0.05	<0.05	<0.05			<0.05	<0.05		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		<0.05	<0.05	0	<0.05	0	0	0	0	<0.05	<0.05	<0.05	<0.0001	<0.05	<0.05	<0.05	<0.05	<0.05				0.00	0.00	0.00
Nickel (Dissolved)	mg/L	0.005	<0.005	<0.005	<0.005			<0.005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	0.006		<0.005	<0.005	0	<0.005	0	0	0	0	<0.005	<0.005	<0.005	<.001	0.0009	0.001	0.0012	0.0011	0.0023				0.00	0.00	0.00
Nitrogen - Nitrate-N	mg/L	0.05	0.11	<0.05	<0.05			0.05	<0.05		<0.05	<0.05	1.2	<0.05	0.05	<0.05		<0.05	<0.05	0	0.06	0	0	0	0	0.14	0.24	0.07	0.02	<0.2	<0.02	0.072	<0.02	0.072				0.00	0.08	0.24
Nitrogen - Nitrite-N	mg/L	0.01	0.02	<0.01	<0.01			<0.01	<0.01		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		<0.01	<0.01	0	<0.01	0	0	0	0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01				0.00	0.00	0.00
Nitrogen - Total Kjeldahl	mg/L	0.1	8.1	3.3	0.5			0.3	2.9		1	1.1	0.3	0.9	0.2	0.5		1.1	1.3	0	0.3	0	0	0	0	2.4	0.8	0.4	0.4									0.00	0.67	2.40
pH	pH	0.1	6.1	6.2	6.25			6.5	6.4		5.5	6.2	6.3	5.9	6.4	6.7		6.6	6	0	6.1	0	0	0	0	5.6	5.4	5.4	6.5	5.4	5.5	4.9	4.9	5.3				0.00	4.23	6.50
Potassium	mg/L	0.1	3.2	2.2	1.4			1.1	1.5		1.8	1.3	4	3	1.3	1.2		0.7	1	0	1.6	0	0	0	0	4.4	3.1	2.2	2	1.6	4.1	3.9	3.2	2.9				0.00	2.18	4.40
Redox Potential#	mV	-500	260	229	352			242	186		339	271	343	360	261	217		259	176	0	233	0	0	0	0	391	254	251	233	85	NT	229	267	272				0.00	173.43	391.00
Sodium	mg/L	0.15	10.9	9.6	9.6			10	9		7	9.5	12.6	8.9	10.4	11.6		9.5	10.2	0	10.4	0	0	0	0	10	12.9	81.3	12	10	40	32	26	27				0.00	20.78	81.30
Sulphate#	mg/L	2	<2	<2	<2			<2	<1		2	<1	2.5	<1	<1	<1		<1	1.2	0	1.8	0	0	0	0	11.7	8	6.3	<1	1	<0.5	<0.5	0.72	1.1				0.00	4.50	11.70
Total Organic Carbon*	mg/L	1	2	20	12			3	8		27	16	2	32	7	11		5	12	0	6	0	0	0	0	17	2	3	4	2	1.8	15	2.5	3				0.00	3.73	17.00
Total Suspended Solids	mg/L	1						18	540		17	117	3670	9	4	72		52	119	0	18	0	0	0	0	2184	698	618	470	4	1.5	5900	310	680				0.00	496.94	2184.00
Zinc (Total)	mg/L	0.005	0.051	0.023	<0.005			<0.005	0.008		<0.005	<0.005	0.044	0.071	<0.005	0.007		<0.005	0.007	0	0.009	0	0	0	0	0.58	0.11	0.038	0.03	0.012	0.039	0.0043	0.0019	0.041				0.00	0.10	0.58
PAHs in water*	µg/L	1	[ND]	[ND]	<5			<5	<5		ND	ND	ND	ND	ND	ND		ND	ND	0	ND	0	0	0	0	ND	ND	ND	nd	nd	ND	ND	ND	ND				0.00	0.00	0.00
TRH C10-C14*	µg/L	50	<50		<50			<50	<50		<50	<50	<50	ND	<50	ND		ND	<50	0	ND	0	0	0	0	ND	<50	ND	<100	<50	<50	<50	<50	<50				0.00	0.00	0.00
TRH C15-C28*	µg/L	100	250		<100			<100	<100		<100	<100	<100	ND	<100	ND		ND	<100	0	ND	0	0	0	0													0.00	0.00	0.00
TRH C29-C36*	µg/L	100	<100		<100			<100	<100		<100	<100	<100	ND	<100	ND		ND	<100	0	ND	0	0	0	0													0.00	0.00	0.00
TRH C10-C36*	µg/L	100		[ND]																0	<100			0	0													0.00	0.00	0.00
Alkalinity - Hydroxide	mg/L	0			0															0																		0.00	#DIV/0!	0.00
Chromium (VI)	mg/L	0.05						<0.05												0				0	0													0.00	0.00	0.00
Mercury (Dissolved)*	µg/L	0.05																		0				0	0													0.00	0.00	0.00
OC/OP in Water*	ug/L	0.2	<0.2	<0.2	<0.2										<0.2					0				0	0	N/A	N/A	NA	nd	ND	ND	ND	ND	ND				0.00	0.00	0.00
	Date Obtained		11/12/2013	4/03/2014	10/09/2014	4/12/2014	30/03/2015	28/09/2015	8/12/2015	15/03/2016	21/06/2016	8/11/2016	5/12/2016	28/03/2017	8/06/2017	7/09/2017	13/12/2017	3/04/2018	15/06/2018	28/09/2018	26/10/2018	19/06/2019	13/12/2019	1/04/2020	26/06/2020	1/04/2021	7/09/2021	13/12/2021	7/03/2022	30/05/2022	20/09/2022	7/12/2022	20/03/2023	6/06/2023						
	Date Published				23/09/2014	6/01/2015	7/04/2015	29/09/2015	21/12/2015	31/03/2016	5/07/2016	21/11/2016	20/12/2016	11/04/2017	26/06/2017	20/09/2017	22/12/2017	12/04/2018	29/06/2018	16/10/2018	9/11/2018	10/07/2019	8/01/2020	14/04/2020	10/07/2020	15/04/2021	21/09/2021	4/01/2022	18/03/2022	21/06/2022	4/10/2022	12/12/2022	31/03/2023	30/06/2023						