Boonoo Boonoo Discharge and Monitoring Point 7

Date Sampled

Analyte	Unit	PQL	10/12/2013 Sample No. 13/2166	3/3/2014 Sample No. 14/0376	25/07/2014 Sample No. 4/1200	9/9/2014 Sample No. 14/1552	4/12/2014 Sample No. 14/2042	10/03/2015 Sample No. 15/0422	23/6/15 Sample No. 15/0997-4	15/09/15 Sample No. 15/1497	08/12/2015 Sample No. 15/1980	15/03/2016 Sample No. 16/0424	21/06/2016 Sample No. 16/0996
Water Level#	m	0.1				[NT]		NT	NT		NT	NT	NT
Temperature - field	Deg. C	0.1	18.9	17.2	8	11	19.4	15.5	7.2	5.4	11.6	15.5	9.1
Dissolved Oxygen	mg/L	0.2	8.5	8.2	8.81	8.88	7.7	6	9	8.8	5.9	8	8.7
Alkalinity (as CaCO3)	mg/L	20	<20	<20	<20	<20	<20	<20	<20	<20	26	<20	<20
Aluminium (Dissolved)	mg/L	0.005	0.204	0.17	0.287	0.804	0.23	0.38	0.48	0.3	0.29	0.15	1.8
Ammonia-N	mg/L	0.01	0.02	<0.01	<0.01	0.02	<0.01	0.04	0.07	0.01	0.01	0.01	0.23
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
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
Calcium	mg/L	0.1	0.3	0.3	0.7	0.6	0.5	1.8	0.6	1	4.2	0.3	0.7
Chloride	mg/L	2	8.85	8.83	11.39	11.01	9	9	10	9	9	9	9
Chromium (Total)	mg/L	0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.05	<0.005	0.005	<0.005	<0.005
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
Electrical Conductivity	µS/cm	1	63.1	53.6	58.2	56.8	53.7	49.7	54	50	47	53	54
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
Iron (Total)	mg/L	0.005	0.439	0.435	1.352	1.481	0.87	6.82	0.42	2.66	15	0.22	0.74
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	<0.005
Magnesium	mg/L	0.1	0.4	0.4	0.6	0.7	0.5	1.4	0.6	0.7	2.9	0.4	0.7
Manganese (Total)	mg/L	0.005	0.005	0.005	0.024	0.021	0.012	0.077	0.006	0.059	0.24	<0.005	0.005
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

Analyte	Unit	PQL	8/11/2016 Sample No. 16/1802	5/12/2016 Sample No. 16/1969	28/03/2017 Sample No. 17/0521	8/06/2017 Sample No. 17/0935	7/09/2017 Sample No. 17/1480	13/12/2017 Sample No. 17/2051	3/04/2018 Sample No. 18/0542	15/06/2018 Sample No. 18/0940	28/09/2018 Sample No. 18/1489	26/10/2018 Sample No. 18/1650	19/06/2019 Sample No. 19/1019	13/12/2019 Sample No. 19/2129	1/04/2020 Sample No. 20/0583	26/06/2020 Sample No. 20/0991
Water Level#	m	0.1	NT	NT	NT	NT	Dry	Dry	Dry	Dry	Dry	NA	Dry	Dry	Dry	Dry
Temperature - field	Deg. C	0.1	11.2	15	21.5	13.4	0	0	0	0	0	14.5	0	0	0	0
Dissolved Oxygen	mg/L	0.2	7.5	7.3	7.6	8.9	0	0	0	0	0	7.7	0	0	0	0
Alkalinity (as CaCO3)	mg/L	20	<20	<20	<20	<20	0	0	0	0	0	<20	0	0	0	0
Aluminium (Dissolved)	mg/L	0.005	0.64	0.15	0.9	0.42	0	0	0	0	0	1.16	0	0	0	0
Ammonia-N	mg/L	0.01	0.07	0.01	0.03	0.13	0	0	0	0	0	0.05	0	0	0	0
Arsenic (Dissolved)	mg/L	0.005	<0.005	<0.005	<0.005	<0.005	0	0	0	0	0	<0.005	0	0	0	0
Cadmium (Dissolved)	mg/L	0.005	<0.005	<0.005	<0.005	<0.005	0	0	0	0	0	<0.005	0	0	0	0
Calcium	mg/L	0.1	0.5	0.7	0.8	0.6	0	0	0	0	0	0.7	0	0	0	0
Chloride	mg/L	2	10	11	10	10	0	0	0	0	0	10	0	0	0	0
Chromium (Total)	mg/L	0.005	<0.005	<0.005	0.039	<0.005	0	0	0	0	0	<0.005	0	0	0	0
Cobalt (Dissolved)	mg/L	0.005	<0.005	<0.005	<0.005	<0.005	0	0	0	0	0	<0.005	0	0	0	0
Electrical Conductivity	µS/cm	1	50.9	58	61.2	56.5	0	0	0	0	0	51.4	0	0	0	0
Copper (Dissolved)	mg/L	0.005	<0.005	<0.005	<0.005	<0.005	0	0	0	0	0	<0.005	0	0	0	0
Iron (Total)	mg/L	0.005	0.75	0.24	0.46	0.25	0	0	0	0	0	0.6	0	0	0	0
Lead (Dissolved)	mg/L	0.005	<0.005	<0.005	<0.005	<0.005	0	0	0	0	0	<0.005	0	0	0	0
Magnesium	mg/L	0.1	0.5	0.4	0.8	0.8	0	0	0	0	0	0.8	0	0	0	0
Manganese (Total)	mg/L	0.005	0.005	0.005	0.015	0.008	0	0	0	0	0	0.01	0	0	0	0
Mercury*	ug/L	0.05	<0.05	<0.05	<0.05	<0.05	0	0	0	0	0	<0.05	0	0	0	0

Analyte	Unit	PQL	1/04/2021 Sample No. 21/0474-7	21/09/2021 Sample No. 21/1276-7	15/12/2021 Sample No. 21/1866-6	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
Water Level#	m	0.1				Dry	Dry	Dry	Dry	Dry	Dry					
Temperature - field	Deg. C	0.1	16.4	6.6	17.1	0	0	0	0	0	0			0.00	3.65	17.10
Dissolved Oxygen	mg/L	0.2	8.5	9.5	8.3	0	0	0	0	0	0			0.00	2.39	9.50
Alkalinity (as CaCO3)	mg/L	20	<20	<20	<20	0	0	0	0	0	0			0.00	0.00	0.00
Aluminium (Dissolved)	mg/L	0.005	1.21	1.1	0.9	0	0	0	0	0	0			0.00	0.29	1.21
Ammonia-N	mg/L	0.01	0.03	0.01	0.03	0	0	0	0	0	0			0.00	0.01	0.03
Arsenic (Dissolved)	mg/L	0.005	<0.005	<0.005	<0.005	0	0	0	0	0	0			0.00	0.00	0.00
Cadmium (Dissolved)	mg/L	0.005	<0.005	<0.005	<0.005	0	0	0	0	0	0			0.00	0.00	0.00
Calcium	mg/L	0.1	0.5	0.4	0.8	0	0	0	0	0	0			0.00	0.15	0.80
Chloride	mg/L	2	8	9	6	0	0	0	0	0	0			0.00	2.09	9.00
Chromium (Total)	mg/L	0.005	<0.005	<0.005	<0.005	0	0	0	0	0	0			0.00	0.00	0.00
Cobalt (Dissolved)	mg/L	0.005	<0.005	<0.005	<0.005	0	0	0	0	0	0			0.00	0.00	0.00
Electrical Conductivity	µS/cm	1	46.9	49.3	78.1	0	0	0	0	0	0			0.00	15.85	78.10
Copper (Dissolved)	mg/L	0.005	<0.005	<0.005	<0.005	0	0	0	0	0	0			0.00	0.00	0.00
Iron (Total)	mg/L	0.005	0.43	0.5	0.85	0	0	0	0	0	0			0.00	0.16	0.85
Lead (Dissolved)	mg/L	0.005	<0.005	<0.005	<0.005	0	0	0	0	0	0			0.00	0.00	0.00
Magnesium	mg/L	0.1	0.6	0.4	0.8	0	0	0	0	0	0			0.00	0.16	0.80
Manganese (Total)	mg/L	0.005	0.006	<0.005	0.022	0	0	0	0	0	0			0.00	0.00	0.02
Mercury*	ug/L	0.05	<0.05	<0.05	<0.05	0	0	0	0	0	0			0.00	0.00	0.00

Boonoo Boonoo Discharge and Monitoring Point 7

Date Sampled

Analyte	Unit	PQL	10/12/2013	3/3/2014	25/07/2014	9/9/2014	4/12/2014	10/03/2015	23/6/15	15/09/15	08/12/2015	15/03/2016	21/06/2016	8/11/2016
			Sample No. 13/2166	Sample No. 14/0376	Sample No. 4/1200	Sample No. 14/1552	Sample No. 14/2042	Sample No. 15/0422	Sample No. 15/0997-4	Sample No. 15/1497	Sample No. 15/1980	Sample No. 16/0424	Sample No. 16/0996	Sample No. 16/1802
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	<0.005	<0.005
Nitrogen - Nitrate-N	mg/L	0.05	<0.05	<0.05	<0.05	<0.05	0.06	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Nitrogen - Nitrite-N	mg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nitrogen - Total Kjeldahl	mg/L	0.1	0.5	0.5	1.5	1.3	1.1	6.3	0.8	2.5	6.4	0.3	1.2	0.9
pH	pH	0.1	6.5	6.3	6.25	6.15	7.2	6.2	6	6.7	6.6	7.1	5.9	7.6
Potassium	mg/L	0.1	0.9	0.9	1.3	1.6	1.2	2	1.3	1.3	3	1.1	2.4	1.2
Redox Potential#	mV	-500	215	173	305	348	152	174	368	226	171	235	325	238
Sodium	mg/L	0.15	8.6	7.4	10	9.5	9	10	9	9	9	9	8	8.6
Sulphate#	mg/L	2	<2	<2	<2	<2	<2	<2	<2	<2	<1	<1	2	<1
Total Organic Carbon*	mg/L	1	5	3	11	15	14	160	11	6	9	7	29	18
Zinc (Total)	mg/L	0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.007	<0.005	0.005	0.024	<0.005	<0.005	<0.005
PAHs in water*	µg/L	1	[ND]	[ND]	[ND]	<5	[ND]	(ND)	ND	<5	<5	ND	ND	ND
TRH C10-C14*	µg/L	50	<50		<50	<50			<50	<50	<50	<50	<50	<50
TRH C15-C28*	µg/L	100	<100		<100	<100			<100	<100	<100	<100	<100	<100
TRH C29-C36*	µg/L	100	<100		<100	<100		100	<100	<100	<100	<100	<100	<100
TRH C10-C36*	µg/L	100		[ND]										
Suspended Solids	mg/L	1												
Alkalinity - Hydroxide	mg/L	0				0								
Chromium (VI)	mg/L	0.05			<0.05					<0.05				
Mercury (Dissolved)*	µg/L	0.05			<0.05					<0.05				
OC/OP in Water*	ug/L	0.2	<0.2	<0.2		<0.2		<0.2	<0.2					
	Date Obtained						4/12/2014	30/03/2015	6/07/2015	28/09/2015	8/12/2015	15/03/2016	21/06/2016	8/11/2016
	Date Published						6/01/2015	7/04/2015	8/08/2015	29/09/2015	21/12/2015	31/03/2016	5/07/2016	21/11/2016

Analyte	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
	Sample No. 16/1969	Sample No. 17/0521	Sample No. 17/0935	Sample No. 17/1480	Sample No. 17/2051	Sample No. 18/0542	Sample No. 18/0940	Sample No. 18/1489	Sample No. 18/1650	Sample No. 19/1019	Sample No. 19/2129	Sample No. 20/0583	Sample No. 20/0991
Nickel (Dissolved)	<0.005	<0.005	<0.005	0	0	0	0	0	<0.005	0	0	0	0
Nitrogen - Nitrate-N	<0.05	<0.05	<0.05	0	0	0	0	0	<0.05	0	0	0	0
Nitrogen - Nitrite-N	<0.01	<0.01	<0.01	0	0	0	0	0	<0.01	0	0	0	0
Nitrogen - Total Kjeldahl	0.4	0.8	0.3	0	0	0	0	0	0.8	0	0	0	0
pH	6.7	5.9	5.5	0	0	0	0	0	6	0	0	0	0
Potassium	1.9	2.9	2.7	0	0	0	0	0	0.9	0	0	0	0
Redox Potential#	317	345	276	0	0	0	0	0	179	0	0	0	0
Sodium	10.6	8	12.3	0	0	0	0	0	8.5	0	0	0	0
Sulphate#	1.2	<1	4.2	0	0	0	0	0	1	0	0	0	0
Total Organic Carbon*	7	18	18	0	0	0	0	0	27	0	0	0	0
Zinc (Total)	<0.005	0.007	0.12	0	0	0	0	0	<0.005	0	0	0	0
PAHs in water*	ND	ND	ND	0	0	0	0	0	ND	0	0	0	0
TRH C10-C14*	<50	ND	ND	0	0	0	0	0	ND	0	0	0	0
TRH C15-C28*	<100	ND	ND	0	0	0	0	0	ND	0	0	0	0
TRH C29-C36*	<100	ND	ND	0	0	0	0	0	ND	0	0	0	0
TRH C10-C36*				0	0	0	0	0	<100	0	0	0	0
Suspended Solids			11	0	0	0	0	0					
Alkalinity - Hydroxide							0	0			0		
Chromium (VI)							0	0			0	0	0
Mercury (Dissolved)*							0	0			0	0	0
OC/OP in Water*							0	0			0	0	0
Date Obtained	12/05/2016	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
Date Published	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

Analyte	1/04/2021	21/09/2021	15/12/2021	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. 21/0474-7	Sample No. 21/1276-7	Sample No. 21/1866-6									
Nickel (Dissolved)	<0.005	<0.005	<0.005	0	0	0	0	0	0	0.00	0.00	0.00
Nitrogen - Nitrate-N	<0.05	<0.05	<0.05	0	0	0	0	0	0	0.00	0.00	0.00
Nitrogen - Nitrite-N	<0.01	<0.01	<0.01	0	0	0	0	0	0	0.00	0.00	0.00
Nitrogen - Total Kjeldahl	0.9	0.8	0.6	0	0	0	0	0	0	0.00	0.21	0.90
pH	5.5	5.7	5.8	0	0	0	0	0	0	0.00	5.60	5.80
Potassium	1.4	0.9	1.9	0	0	0	0	0	0	0.00	0.38	1.90
Redox Potential#	364	247	244	0	0	0	0	0	0	0.00	77.73	364.00
Sodium	7.8	8.7	5.9	0	0	0	0	0	0	0.00	2.04	8.70
Sulphate#	2.8	1.4	<1.0	0	0	0	0	0	0	0.00	0.42	2.80
Total Organic Carbon*	29	14	18	0	0	0	0	0	0	0.00	5.55	29.00
Zinc (Total)	0.006	0.006	<0.005	0	0	0	0	0	0	0.00	0.00	0.01
PAHs in water*	[ND]	ND	ND	0	0	0	0	0	0	0.00	0.00	0.00
TRH C10-C14*	ND	<50	ND	0	0	0	0	0	0	0.00	0.00	0.00
TRH C15-C28*				0	0	0	0	0	0	0.00	0.00	0.00
TRH C29-C36*				0	0	0	0	0	0	0.00	0.00	0.00
TRH C10-C36*				0	0	0	0	0	0	0.00	0.00	0.00
Suspended Solids	N/A	N/A	N/A							0.00	#DIV/0!	0.00
Alkalinity - Hydroxide										0.00	#DIV/0!	0.00
Chromium (VI)				0	0	0	0	0	0	<0.05	<0.05	<0.05
Mercury (Dissolved)*				0	0	0	0	0	0	<0.05	<0.05	<0.05
OC/OP in Water*	N/A	N/A	N/A	0	0	0	0	0	0	<0.2	<0.2	<0.2
Date Obtained	1/04/2021	7/09/2021	13/12/2021	7/03/2022	30/05/2022	20/09/2022			6/06/2023			
Date Published	15/04/2021	21/09/2021	4/01/2022	18/03/2022	21/06/2022	4/10/2022		31/03/2023	31/03/2023			