

Dubbo Regional Council
Whylandra Waste and Recycling Centre
Cooba Road, Dubbo 2830
EPL 6058

Waste Disposal (application to land)

Analyte	LOR	Sample ID	BH1	BH1	BH1	BH1	BH1	BH1	BH1	BH1	BH1	BH1	BH1	BH1	BH1	BH1	BH1	BH1
		Sample Date	11/10/2017	13/03/2018	18/09/2018	26/03/2019	23/10/2019	28/05/2020	15/09/2020	11/03/2021	6/05/2021	10/11/2021	15/03/2022	14/02/2023	31/05/2023	11/10/2023	21/02/2024	3/09/2024
		Units	PS	PS	PS	PS	PS	PS	PS	PS	PS	PS	PS	PS	PS	PS	PS	PS
pH (Lab)		0 No unit	6.7	6.7	6.7	7.1	6.9	7.1	6.6	6.9	-	6.8	6.9	6.8	6.8	6.8	7	7
Electrical Conductivity (Lab)		2 µS/cm	1700	1700	1600	1700	1300	1700	1800	1600	-	1600	1600	1500	1800	1700	1800	1700
Total Dissolved Solids		10 mg/L	-	900	-	960	-	920	-	960	-	-	950	-	930	-	1000	-
Total Suspended Solids		5 mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloride		1 mg/L	-	300	-	260	-	290	-	300	-	-	320	-	320	-	310	-
Fluoride		0.1 mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sulfate (SO4)		1 mg/L	-	31	-	30	-	37	-	37	-	-	37	-	35	-	35	-
Calcium (Ca)		0.2 mg/L	-	61	-	62	-	60	-	65	-	-	68	-	63	-	59	-
Magnesium (Mg)		0.1 mg/L	-	41	-	45	-	45	-	48	-	-	51	-	52	-	48	-
Potassium (K)		0.1 mg/L	12	12	11	14	13	15	13	16	-	15	17	15	15	16	15	15
Sodium (Na)		0.5 mg/L	-	220	-	220	-	240	-	230	-	-	260	-	240	-	220	-
Total Organic Carbon		0.2 mg/L	7.2	1	0.6	1.5	1	2.8	4.9	1.5	-	1.5	1.5	1.6	9.7	6.7	1	1.4
Ammonia (NH3) as N		0.01 mg/L	0.09	0.04	< 0.01	0.01	< 0.01	0.075	0.03	0.02	-	0.01	0.04	0.05	0.02	0.04	0.04	0.09
Nitrate (NO3) as N		0.005 mg/L	< 0.005	0.077	< 0.005	0.022	0.006	0.65	0.32	0.14	-	0.045	0.16	0.047	0.16	< 0.005	0.052	0.043
Nitrite (NO2) as N		0.005 mg/L	< 0.005	< 0.005	< 0.005	0.006	0.005	0.01	< 0.005	< 0.005	-	< 0.005	< 0.005	0.015	< 0.005	< 0.005	< 0.005	< 0.005
Total Nitrogen		0.05 mg/L	0.29	0.38	0.39	0.32	0.071	1.5	0.9	0.51	-	0.37	0.63	0.38	1.6	0.86	0.79	1
Total Kjeldahl Nitrogen		0.05 mg/L	0.28	0.3	0.39	0.3	0.06	0.83	0.58	0.37	-	0.32	0.47	0.32	1.4	0.86	0.74	0.98
Reactive Phosphorus as P		0.005 mg/L	-	< 0.005	-	0.027	-	0.072	-	0.029	-	-	0.006	-	< 0.005	-	< 0.005	-
Mercury (Hg)		0.0001 mg/L	-	< 0.0001	-	< 0.0001	-	< 0.0001	-	< 0.0001	-	-	< 0.0001	-	< 0.0001	-	< 0.0001	-
Hexavalent Chromium (CrVI)		0.004 mg/L	-	< 0.004	-	< 0.004	-	< 0.004	-	< 0.004	-	-	< 0.004	-	< 0.004	-	< 0.004	-
Manganese (Mn)		0.001 mg/L	-	0.002	-	0.037	-	0.02	-	0.012	-	-	0.069	-	0.19	-	0.13	-
Arsenic (As)		0.001 mg/L	-	< 0.001	-	< 0.001	-	< 0.001	-	< 0.001	-	-	0.001	-	< 0.001	-	< 0.001	-
Barium (Ba)		0.001 mg/L	-	0.14	-	0.13	-	0.13	-	0.14	-	-	0.16	-	0.13	-	0.15	-
Cadmium (Cd)		0.0001 mg/L	-	< 0.0001	-	< 0.0001	-	0.0015	-	< 0.0001	-	-	< 0.0001	-	< 0.0001	-	< 0.0001	-
Chromium (Cr)		0.001 mg/L	-	< 0.001	-	< 0.001	-	0.005	-	< 0.001	-	-	0.002	-	< 0.001	-	0.006	-
Cobalt (Co)		0.001 mg/L	-	< 0.001	-	< 0.001	-	< 0.001	-	< 0.001	-	-	< 0.001	-	0.002	-	0.001	-
Copper (Cu)		0.001 mg/L	-	0.003	-	< 0.001	-	0.017	-	0.004	-	-	0.005	-	< 0.001	-	0.002	-
Lead (Pb)		0.001 mg/L	-	< 0.001	-	< 0.001	-	< 0.001	-	< 0.001	-	-	0.008	-	< 0.001	-	< 0.001	-
Zinc (Zn)		0.005 mg/L	-	0.021	-	0.021	-	0.28	-	0.049	-	-	0.05	-	0.19	-	0.076	-
Aluminium (Al)		0.005 mg/L	-	-	-	< 0.005	< 0.005	< 0.005	-	< 0.005	-	-	0.68	-	< 0.005	-	0.012	-
Total Phenols		0.01 mg/L	-	< 0.01	-	< 0.01	-	< 0.01	-	0.01	-	-	< 0.05	-	< 0.05	-	< 0.05	-
Benzene		0.5 µg/L	-	< 0.5	-	< 0.5	-	< 0.5	-	< 0.5	-	-	< 0.5	-	< 0.5	-	< 0.5	-
Toluene		0.5 µg/L	-	< 0.5	-	< 0.5	-	< 0.5	-	< 0.5	-	-	< 0.5	-	< 0.5	-	< 0.5	-
Ethylbenzene		0.5 µg/L	-	< 0.5	-	< 0.5	-	< 0.5	-	< 0.5	-	-	< 0.5	-	< 0.5	-	< 0.5	-
Total Xylenes		1.5 µg/L	-	< 1.5	-	< 1.5	-	< 1.5	-	< 1.5	-	-	< 1.5	-	< 1.5	-	< 1.5	-
Total PAHs		1 µg/L	-	< 1	-	< 1	-	< 1	-	-	< 1	-	< 1	-	< 1	-	< 1	-
Total Polychlorinated biphenyls		5 µg/L	-	< 5	-	< 5	-	< 5	-	-	< 5	-	< 5	-	< 5	-	< 5	-
OC Pesticides		20 µg/L	-	< 20	-	< 20	-	< 20	-	< 20	-	-	< 20	-	< 20	-	< 20	-
OP Pesticides		3 µg/L	-	< 3	-	< 3	-	< 3	-	< 3	-	-	< 3	-	< 3	-	< 3	-
TPH C6C9		40 µg/L	-	< 40	-	< 40	-	< 40	-	< 40	-	-	< 40	-	< 40	-	< 40	-
TPH C10C36		450 µg/L	-	< 450	-	< 450	-	< 450	-	-	< 450	-	< 450	-	< 450	-	< 450	-
Standing Water Level		0.01 m	41.69	41.71	42.04	42.71	44.01	45.2	43.66	45.32	-	42.9	41.65	41.88	41.5	42.12	41.87	42.26

		Sample ID	BH2	BH2	BH2	BH2	BH2	BH2	BH2	BH2	BH2	BH2	BH2	BH2	BH2	BH2	BH2	BH2
		Sample Date	11/10/2017	13/03/2018	18/09/2018	26/03/2019	23/10/2019	27/05/2020	15/09/2020	11/03/2021	10/11/2021	15/03/2022	14/02/2023	30/05/2023	11/10/2023	21/02/2024	3/09/2024	7/03/2025
Analyte	LOR	Units	PS	PS	PS	PS	PS	PS	PS	PS	PS	PS	PS	PS	PS	PS	PS	PS
pH (Lab)	0	No unit	6.7	6.5	6.5	6.5	7	6.7	6.8	6.6	6.7	6.7	6.7	6.6	6.8	6.7	7	6.9
Electrical Conductivity (Lab)	2	µS/cm	1600	1700	1500	1700	1300	1700	1800	1700	1600	1600	1500	1700	1700	1700	1700	1700
Total Dissolved Solids	10	mg/L	-	940	-	-	970	-	930	-	930	-	940	-	940	-	1000	1000
Total Suspended Solids	5	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloride	1	mg/L	-	270	-	-	250	-	280	-	280	-	290	-	300	-	290	320
Fluoride	0.1	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sulfate (SO4)	1	mg/L	-	62	-	-	52	-	66	-	66	-	70	-	59	-	64	73
Calcium (Ca)	0.2	mg/L	-	67	-	-	65	-	67	-	68	-	68	-	64	-	61	62
Magnesium (Mg)	0.1	mg/L	-	38	-	-	41	-	43	-	44	-	46	-	47	-	43	41
Potassium (K)	0.1	mg/L	12	12	10	12	12	12	13	14	15	14	14	13	14	13	13	12
Sodium (Na)	0.5	mg/L	-	210	-	-	220	-	250	-	230	-	250	-	230	-	220	210
Total Organic Carbon	0.2	mg/L	10	4.2	0.9	1.5	1.1	0.4	4.6	1.4	5.1	0.7	1.5	9.6	6.2	0.7	1.7	2.4
Ammonia (NH3) as N	0.01	mg/L	0.32	0.89	0.04	0.06	< 0.01	0.024	0.22	0.05	0.18	< 0.01	0.04	< 0.01	0.05	0.03	< 0.01	< 0.01
Nitrate (NO3) as N	0.005	mg/L	1	1.8	0.27	0.4	0.24	0.27	1.1	0.45	0.48	0.12	0.19	0.017	< 0.005	0.042	< 0.005	0.069
Nitrite (NO2) as N	0.005	mg/L	0.013	0.11	< 0.005	< 0.005	< 0.005	< 0.005	0.01	< 0.005	0.038	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.005	< 0.005
Total Nitrogen	0.05	mg/L	3.7	4.5	0.71	0.91	0.74	0.41	2.1	0.86	1.9	0.31	0.58	1	1	0.36	0.41	0.5
Total Kjeldahl Nitrogen	0.05	mg/L	2.7	2.6	0.43	0.5	0.5	0.15	1	0.4	1.4	0.19	0.39	1	1	0.32	0.4	0.43
Reactive Phosphorus as P	0.005	mg/L	-	0.29	-	< 0.005	-	0.011	-	0.033	-	0.021	-	0.021	-	0.014	-	< 0.005
Mercury (Hg)	0.0001	mg/L	-	< 0.0001	-	< 0.0001	-	< 0.0001	-	< 0.0001	-	< 0.0001	-	< 0.0001	-	< 0.0001	-	< 0.0001
Hexavalent Chromium (CrVI)	0.004	mg/L	-	< 0.004	-	< 0.004	-	< 0.004	-	< 0.004	-	< 0.004	-	< 0.004	-	< 0.004	-	< 0.004
Manganese (Mn)	0.001	mg/L	-	0.019	-	0.035	-	0.002	-	0.006	-	0.024	-	0.021	-	0.016	-	0.032
Arsenic (As)	0.001	mg/L	-	< 0.001	-	< 0.001	-	< 0.001	-	< 0.001	-	< 0.001	-	< 0.001	-	< 0.001	-	< 0.001
Barium (Ba)	0.001	mg/L	-	0.078	-	0.089	-	0.075	-	0.073	-	0.088	-	0.073	-	0.08	-	0.081
Cadmium (Cd)	0.0001	mg/L	-	< 0.0001	-	< 0.0001	-	0.0002	-	< 0.0001	-	< 0.0001	-	< 0.0001	-	< 0.0001	-	< 0.0001
Chromium (Cr)	0.001	mg/L	-	< 0.001	-	< 0.001	-	< 0.001	-	< 0.001	-	0.001	-	< 0.001	-	0.002	-	< 0.001
Cobalt (Co)	0.001	mg/L	-	< 0.001	-	< 0.001	-	< 0.001	-	< 0.001	-	< 0.001	-	< 0.001	-	< 0.001	-	< 0.001
Copper (Cu)	0.001	mg/L	-	0.004	-	< 0.001	-	0.004	-	0.001	-	0.003	-	< 0.001	-	0.002	-	< 0.001
Lead (Pb)	0.001	mg/L	-	< 0.001	-	< 0.001	-	< 0.001	-	< 0.001	-	0.009	-	< 0.001	-	< 0.001	-	0.016
Zinc (Zn)	0.005	mg/L	-	0.035	-	0.012	-	0.019	-	0.02	-	0.036	-	0.2	-	0.054	-	0.15
Aluminium (Al)	0.005	mg/L	-	-	-	< 0.005	< 0.005	< 0.005	-	< 0.005	-	0.38	-	< 0.005	-	0.012	-	< 0.005
Total Phenols	0.01	mg/L	-	< 0.01	-	< 0.01	-	< 0.01	-	< 0.01	-	< 0.05	-	< 0.05	-	< 0.05	-	< 0.05
Benzene	0.5	µg/L	-	< 0.5	-	< 0.5	-	< 0.5	-	< 0.5	-	< 0.5	-	< 0.5	-	< 0.5	-	< 0.5
Toluene	0.5	µg/L	-	< 0.5	-	< 0.5	-	< 0.5	-	< 0.5	-	< 0.5	-	< 0.5	-	< 0.5	-	< 0.5
Ethylbenzene	0.5	µg/L	-	< 0.5	-	< 0.5	-	< 0.5	-	< 0.5	-	< 0.5	-	< 0.5	-	< 0.5	-	< 0.5
Total Xylenes	1.5	µg/L	-	< 1.5	-	< 1.5	-	< 1.5	-	< 1.5	-	< 1.5	-	< 1.5	-	< 1.5	-	< 1.5
Total PAHs	1	µg/L	-	< 1	-	< 1	-	< 1	-	< 1	-	< 1	-	< 1	-	< 1	-	< 1
Total Polychlorinated biphenyls	5	µg/L	-	< 5	-	< 5	-	< 5	-	< 5	-	< 5	-	< 5	-	< 5	-	< 5
OC Pesticides	20	µg/L	-	< 20	-	< 20	-	< 20	-	< 20	-	< 20	-	< 20	-	< 20	-	< 1
OP Pesticides	3	µg/L	-	< 3	-	< 3	-	< 3	-	< 3	-	< 3	-	< 3	-	< 3	-	< 3
TPH C6C9	40	µg/L	-	< 40	-	< 40	-	< 40	-	< 40	-	< 40	-	< 40	-	< 40	-	< 40
TPH C10C36	450	µg/L	-	< 450	-	< 450	-	< 450	-	< 450	-	< 450	-	< 450	-	< 450	-	< 450
Standing Water Level	0.01	m	37.06	37.01	36.99	37.04	36.82	37.04	35.7	36.42	36.23	36.1	36.9	36.94	37.08	36.89	38.1	36.91

		Sample ID	BH3	BH3	BH3	BH3	BH3	BH3	BH3	BH3	BH3	BH3	BH3	BH3	BH3	BH3	BH3	BH3
		Sample Date	11/10/2017	13/03/2018	18/09/2018	26/03/2019	23/10/2019	28/05/2020	15/09/2020	10/11/2021	15/03/2022	14/02/2023	30/05/2023	11/10/2023	21/02/2024	3/09/2024	7/03/2025	
Analyte	LOR	Units	PS	PS	PS	PS	PS	PS	PS	PS	PS	PS	PS	PS	PS	PS	PS	
pH (Lab)	0	No unit	6.5	6.5	6.5	6.8	6.6	6.6	6.4	6.4	6.5	6.5	6.5	6.5	6.9	6.7	6.9	
Electrical Conductivity (Lab)	2	µS/cm	820	840	750	610	490	580	640	630	650	710	670	680	660	670	670	
Total Dissolved Solids	10	mg/L	-	440	-	370	-	340	-	-	390	-	410	-	440	-	430	
Total Suspended Solids	5	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chloride	1	mg/L	-	130	-	70	-	67	-	-	100	-	99	-	90	-	96	
Fluoride	0.1	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Sulfate (SO4)	1	mg/L	-	24	-	22	-	24	-	-	26	-	25	-	26	-	27	
Calcium (Ca)	0.2	mg/L	-	24	-	16	-	15	-	-	20	-	19	-	18	-	18	
Magnesium (Mg)	0.1	mg/L	-	18	-	13	-	12	-	-	16	-	16	-	14	-	14	
Potassium (K)	0.1	mg/L	7	7.3	6.3	6.2	6.3	6.2	6.1	7	7.8	7.9	7.3	7.1	7.3	7.1	6.1	
Sodium (Na)	0.5	mg/L	-	110	-	88	-	92	-	-	110	-	100	-	92	-	87	
Total Organic Carbon	0.2	mg/L	4.8	0.8	0.5	3.5	1.1	0.6	5.1	1.1	0.4	2.1	13	4.4	1.3	1.6	3	
Ammonia (NH3) as N	0.01	mg/L	0.01	0.05	< 0.01	0.11	0.02	0.027	0.01	0.01	0.01	0.01	0.01	0.04	0.04	< 0.01	0.07	
Nitrate (NO3) as N	0.005	mg/L	0.13	0.34	0.024	0.1	0.068	0.07	0.2	0.53	0.17	0.31	0.13	0.03	0.19	0.064	0.15	
Nitrite (NO2) as N	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.006	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.006	< 0.005	
Total Nitrogen	0.05	mg/L	0.38	0.48	0.19	0.87	0.368	0.07	0.89	0.76	0.34	0.64	1.3	0.88	1.6	0.75	0.77	
Total Kjeldahl Nitrogen	0.05	mg/L	0.25	0.14	0.16	0.76	0.3	< 0.05	0.69	0.23	0.17	0.33	1.2	0.85	1.4	0.68	0.62	
Reactive Phosphorus as P	0.005	mg/L	-	0.035	-	0.025	-	0.018	-	-	0.014	-	0.006	-	0.011	-	0.023	
Mercury (Hg)	0.0001	mg/L	-	< 0.0001	-	< 0.0001	-	< 0.0001	-	-	< 0.0001	-	< 0.0001	-	< 0.0001	-	< 0.0001	
Hexavalent Chromium (CrVI)	0.004	mg/L	-	< 0.004	-	< 0.004	-	< 0.004	-	-	< 0.004	-	< 0.004	-	< 0.004	-	< 0.004	
Manganese (Mn)	0.001	mg/L	-	0.002	-	0.01	-	0.002	-	-	0.03	-	0.035	-	0.064	-	0.038	
Arsenic (As)	0.001	mg/L	-	< 0.001	-	< 0.001	-	< 0.001	-	-	< 0.001	-	< 0.001	-	< 0.001	-	< 0.001	
Barium (Ba)	0.001	mg/L	-	0.13	-	0.12	-	0.13	-	-	0.15	-	0.093	-	0.12	-	0.12	
Cadmium (Cd)	0.0001	mg/L	-	< 0.0001	-	< 0.0001	-	0.0003	-	-	< 0.0001	-	< 0.0001	-	< 0.0001	-	< 0.0001	
Chromium (Cr)	0.001	mg/L	-	< 0.001	-	0.001	-	< 0.001	-	-	0.003	-	< 0.001	-	0.022	-	0.002	
Cobalt (Co)	0.001	mg/L	-	< 0.001	-	< 0.001	-	< 0.001	-	-	0.001	-	< 0.001	-	0.003	-	< 0.001	
Copper (Cu)	0.001	mg/L	-	0.002	-	0.002	-	0.015	-	-	0.004	-	< 0.001	-	0.002	-	< 0.001	
Lead (Pb)	0.001	mg/L	-	< 0.001	-	< 0.001	-	< 0.001	-	-	0.009	-	< 0.001	-	< 0.001	-	0.003	
Zinc (Zn)	0.005	mg/L	-	0.018	-	0.033	-	0.02	-	-	0.028	-	0.17	-	0.06	-	0.11	
Aluminium (Al)	0.005	mg/L	-	-	-	0.021	< 0.005	< 0.005	-	-	0.64	-	0.09	-	0.014	-	0.15	
Total Phenols	0.01	mg/L	-	< 0.01	-	< 0.01	-	< 0.01	-	-	< 0.05	-	< 0.05	-	< 0.05	-	< 0.05	
Benzene	0.5	µg/L	-	< 0.5	-	< 0.5	-	< 0.5	-	-	< 0.5	-	< 0.5	-	< 0.5	-	< 0.5	
Toluene	0.5	µg/L	-	< 0.5	-	< 0.5	-	< 0.5	-	-	< 0.5	-	< 0.5	-	< 0.5	-	< 0.5	
Ethylbenzene	0.5	µg/L	-	< 0.5	-	< 0.5	-	< 0.5	-	-	< 0.5	-	< 0.5	-	< 0.5	-	< 0.5	
Total Xylenes	1.5	µg/L	-	< 1.5	-	< 1.5	-	< 1.5	-	-	< 1.5	-	< 1.5	-	< 1.5	-	< 1.5	
Total PAHs	1	µg/L	-	< 1	-	< 1	-	< 1	-	-	< 1	-	< 1	-	< 1	-	< 1	
Total Polychlorinated biphenyls	5	µg/L	-	< 5	-	< 5	-	< 5	-	-	< 5	-	< 5	-	< 5	-	< 5	
OC Pesticides	20	µg/L	-	< 20	-	< 20	-	< 20	-	-	< 20	-	< 20	-	< 20	-	< 1	
OP Pesticides	3	µg/L	-	< 3	-	< 3	-	< 3	-	-	< 3	-	< 3	-	< 3	-	< 3	
TPH C6C9	40	µg/L	-	< 40	-	< 40	-	< 40	-	-	< 40	-	< 40	-	< 40	-	< 40	
TPH C10C36	450	µg/L	-	< 450	-	< 450	-	< 450	-	-	< 450	-	< 450	-	< 450	-	< 450	
Standing Water Level	0.01	m	44.2	44.17	44.11	44.2	44.25	44.41	44.92	44.47	44.15	44.17	44.3	44.59	44.28	44.57	44.3	

		Sample ID	BH4	BH4	BH4	BH4	BH4	BH4	BH4	BH4	BH4	BH4	BH4	BH4	BH4	BH4	BH4
		Sample Date	13/03/2018	18/09/2018	26/03/2019	23/10/2019	28/05/2020	15/09/2020	6/05/2021	10/11/2021	15/03/2022	14/02/2023	31/05/2023	11/10/2023	11/10/2023	21/02/2024	7/03/2025
Analyte	LOR	Units	PS	PS	PS	PS	PS	PS	PS	PS	PS	PS	PS	PS	PS	PS	PS
pH (Lab)		0 No unit	6.4	6.5	6.8	6.7	7	6.4	7	6.6	7.5	6.5	6.6	6.6	6.6	6.9	6.8
Electrical Conductivity (Lab)		2 µS/cm	920	880	800	840	950	960	860	680	10000	660	870	1000	1000	910	960
Total Dissolved Solids		10 mg/L	410	-	510	-	540	-	510	-	6200	-	520	-	-	530	580
Total Suspended Solids		5 mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloride		1 mg/L	110	-	76	-	120	-	100	-	2400	-	120	-	-	110	130
Fluoride		0.1 mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sulfate (SO4)		1 mg/L	24	-	45	-	29	-	29	-	18	-	23	-	-	24	27
Calcium (Ca)		0.2 mg/L	50	-	34	-	56	-	60	-	190	-	54	-	-	49	51
Magnesium (Mg)		0.1 mg/L	27	-	35	-	29	-	29	-	190	-	28	-	-	26	27
Potassium (K)		0.1 mg/L	13	9.8	17	11	13	11	13	12	390	13	12	13	13	16	11
Sodium (Na)		0.5 mg/L	85	-	54	-	99	-	75	-	1300	-	89	-	-	78	90
Total Organic Carbon		0.2 mg/L	6.2	1.7	9.6	0.2	2	3.7	8.3	2.7	430	12	6.8	8	8	3.6	1.1
Ammonia (NH3) as N		0.01 mg/L	0.1	0.05	0.03	< 0.01	0.064	0.03	0.06	0.01	450	0.31	0.15	0.03	0.03	0.09	0.01
Nitrate (NO3) as N		0.005 mg/L	0.73	0.074	2.4	0.006	0.33	0.086	2.2	0.29	< 0.1	0.11	0.6	0.054	0.054	2.3	0.072
Nitrite (NO2) as N		0.005 mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Total Nitrogen		0.05 mg/L	1.7	0.45	3.4	0.056	0.91	0.71	3.7	1	490	2.5	2.8	2.3	2.3	3.2	0.61
Total Kjeldahl Nitrogen		0.05 mg/L	0.92	0.38	1	0.05	0.58	0.62	1.5	0.72	490	2.4	2.2	2.3	2.3	0.91	0.54
Reactive Phosphorus as P		0.005 mg/L	< 0.005	-	< 0.005	-	< 0.005	-	< 0.005	-	2.2	-	< 0.005	-	-	< 0.005	< 0.005
Mercury (Hg)		0.0001 mg/L	< 0.0001	-	< 0.0001	-	< 0.0001	-	< 0.0001	-	< 0.0001	-	< 0.0001	-	-	< 0.0001	< 0.0001
Hexavalent Chromium (CrVI)		0.004 mg/L	< 0.004	-	< 0.004	-	< 0.004	-	< 0.004	-	< 0.004	-	< 0.004	-	-	< 0.004	< 0.004
Manganese (Mn)		0.001 mg/L	0.013	-	0.043	-	0.093	-	0.093	-	1.1	-	0.28	-	-	0.065	0.13
Arsenic (As)		0.001 mg/L	< 0.001	-	< 0.001	-	0.001	-	< 0.001	-	0.22	-	< 0.001	-	-	< 0.001	< 0.001
Barium (Ba)		0.001 mg/L	0.16	-	0.19	-	0.18	-	0.15	-	0.55	-	0.16	-	-	0.16	0.17
Cadmium (Cd)		0.0001 mg/L	< 0.0001	-	< 0.0001	-	0.0002	-	< 0.0001	-	0.0001	-	< 0.0001	-	-	< 0.0001	< 0.0001
Chromium (Cr)		0.001 mg/L	< 0.001	-	< 0.001	-	< 0.001	-	0.004	-	0.05	-	< 0.001	-	-	0.005	0.003
Cobalt (Co)		0.001 mg/L	< 0.001	-	< 0.001	-	< 0.001	-	< 0.001	-	0.027	-	0.005	-	-	< 0.001	< 0.001
Copper (Cu)		0.001 mg/L	0.007	-	0.004	-	0.002	-	0.001	-	0.003	-	< 0.001	-	-	0.003	< 0.001
Lead (Pb)		0.001 mg/L	< 0.001	-	< 0.001	-	< 0.001	-	< 0.001	-	< 0.001	-	< 0.001	-	-	< 0.001	0.005
Zinc (Zn)		0.005 mg/L	0.066	-	0.027	-	0.051	-	0.14	-	0.021	-	0.17	-	-	0.18	0.11
Aluminium (Al)		0.005 mg/L	-	-	0.006	< 0.005	< 0.005	-	< 0.005	-	0.16	-	< 0.005	-	-	0.014	< 0.005
Total Phenols		0.01 mg/L	< 0.01	-	< 0.01	-	< 0.01	-	0.03	-	< 0.05	-	< 0.05	-	-	< 0.05	< 0.05
Benzene		0.5 µg/L	< 0.5	-	< 0.5	-	< 0.5	-	< 0.5	-	< 0.5	-	< 0.5	-	-	< 0.5	< 0.5
Toluene		0.5 µg/L	< 0.5	-	< 0.5	-	< 0.5	-	< 0.5	-	< 0.5	-	< 0.5	-	-	< 0.5	< 0.5
Ethylbenzene		0.5 µg/L	< 0.5	-	< 0.5	-	< 0.5	-	< 0.5	-	3.4	-	< 0.5	-	-	< 0.5	< 0.5
Total Xylenes		1.5 µg/L	< 1.5	-	< 1.5	-	< 1.5	-	< 1.5	-	8.3	-	< 1.5	-	-	< 1.5	< 1.5
Total PAHs		1 µg/L	< 1	-	< 1	-	< 1	-	< 1	-	< 1.05	-	< 1	-	-	< 1	< 1
Total Polychlorinated biphenyls		5 µg/L	< 5	-	< 5	-	< 5	-	< 5	-	< 5	-	< 5	-	-	< 5	< 5
OC Pesticides		20 µg/L	< 20	-	< 20	-	< 20	-	< 20	-	< 20	-	< 20	-	-	< 20	< 1
OP Pesticides		3 µg/L	< 3	-	< 3	-	< 3	-	< 3	-	< 3	-	< 3	-	-	< 3	< 3
TPH C6C9		40 µg/L	< 40	-	< 40	-	< 40	-	< 40	-	< 40	-	< 40	-	-	< 40	< 40
TPH C10C36		450 µg/L	< 450	-	< 450	-	< 450	-	< 450	-	< 450	-	< 450	-	-	< 450	< 450
Standing Water Level		0.01 m	51.58	50.44	50.5	50.55	53.8	50.73	50.41	51.42	50.48	49.9	50.5	50.6	50.6	50.31	50.47

		Sample ID	BGO	BGO	BGO	BGO	BGO	BGO	BGO	BGO	BGO	BGO	BGO	BGO	BGO
Sample Date		Units	11/10/2017	13/03/2018	18/09/2018	26/03/2019	23/10/2019	27/05/2020	15/09/2020	11/03/2021	6/05/2021	10/11/2021	15/03/2022	14/02/2023	30/05/2023
Analyte	LOR	PS	PS	PS	PS	PS	PS	PS	PS	PS	PS	PS	PS	PS	PS
pH (Lab)		0 No unit	6.8	6.7	6.9	7.1	6.6	7.3	6.7	7.1	-	7.2	6.9	6.9	7.1
Electrical Conductivity (Lab)		2 µS/cm	1000	1000	990	1000	960	1100	1100	920	-	940	900	830	930
Total Dissolved Solids		10 mg/L	-	540	-	590	-	590	-	550	-	-	540	-	510
Total Suspended Solids		5 mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloride		1 mg/L	-	140	-	120	-	140	-	140	-	-	160	-	140
Fluoride		0.1 mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Sulfate (SO4)		1 mg/L	-	19	-	18	-	20	-	21	-	-	23	-	21
Calcium (Ca)		0.2 mg/L	-	48	-	49	-	53	-	43	-	-	45	-	35
Magnesium (Mg)		0.1 mg/L	-	26	-	28	-	29	-	26	-	-	28	-	29
Potassium (K)		0.1 mg/L	9.6	9.6	9.3	11	10	11	9.8	12	-	11	12	11	11
Sodium (Na)		0.5 mg/L	-	110	-	120	-	140	-	130	-	-	140	-	130
Total Organic Carbon		0.2 mg/L	6.1	1.1	2	0.7	0.9	0.5	0.8	1	-	1.1	0.9	0.8	0.6
Ammonia (NH3) as N		0.01 mg/L	0.13	0.02	0.01	0.71	< 0.01	0.03	0.02	< 0.01	-	0.03	< 0.01	0.01	< 0.01
Nitrate (NO3) as N		0.005 mg/L	0.066	0.11	0.024	0.12	0.045	0.08	0.19	0.78	-	0.74	1	0.42	0.38
Nitrite (NO2) as N		0.005 mg/L	< 0.005	< 0.005	< 0.005	0.026	< 0.005	< 0.005	< 0.005	< 0.005	-	< 0.005	< 0.005	< 0.005	< 0.005
Total Nitrogen		0.05 mg/L	0.81	0.21	1.2	1.2	0.125	0.2	0.57	0.91	-	0.89	1.1	0.56	0.47
Total Kjeldahl Nitrogen		0.05 mg/L	0.74	0.1	1.1	1	0.08	0.12	0.39	0.12	-	0.15	0.1	0.14	0.09
Reactive Phosphorus as P		0.005 mg/L	-	0.008	-	0.006	-	0.006	-	0.011	-	-	0.008	-	0.01
Mercury (Hg)		0.0001 mg/L	-	< 0.0001	-	< 0.0001	-	< 0.0001	-	< 0.0001	-	-	< 0.0001	-	< 0.0001
Hexavalent Chromium (CrVI)		0.004 mg/L	-	< 0.004	-	< 0.004	-	< 0.004	-	< 0.004	-	-	< 0.004	-	< 0.004
Manganese (Mn)		0.001 mg/L	-	0.037	-	0.05	-	0.049	-	0.003	-	-	0.003	-	0.001
Arsenic (As)		0.001 mg/L	-	< 0.001	-	< 0.001	-	< 0.001	-	< 0.001	-	-	< 0.001	-	< 0.001
Barium (Ba)		0.001 mg/L	-	0.21	-	0.19	-	0.21	-	0.14	-	-	0.19	-	0.11
Cadmium (Cd)		0.0001 mg/L	-	< 0.0001	-	< 0.0001	-	< 0.0001	-	< 0.0001	-	-	< 0.0001	-	< 0.0001
Chromium (Cr)		0.001 mg/L	-	< 0.001	-	< 0.001	-	< 0.001	-	< 0.001	-	-	< 0.001	-	< 0.001
Cobalt (Co)		0.001 mg/L	-	< 0.001	-	< 0.001	-	< 0.001	-	< 0.001	-	-	< 0.001	-	< 0.001
Copper (Cu)		0.001 mg/L	-	0.027	-	0.022	-	0.027	-	0.019	-	-	0.044	-	0.04
Lead (Pb)		0.001 mg/L	-	< 0.001	-	< 0.001	-	< 0.001	-	< 0.001	-	-	0.007	-	< 0.001
Zinc (Zn)		0.005 mg/L	-	0.03	-	0.041	-	0.056	-	0.043	-	-	0.075	-	0.4
Aluminium (Al)		0.005 mg/L	-	-	-	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	-	-	0.012	-	< 0.005
Total Phenols		0.01 mg/L	-	0.02	-	< 0.01	-	< 0.01	-	0.01	-	-	< 0.05	-	< 0.05
Benzene		0.5 µg/L	-	< 0.5	-	< 0.5	-	< 0.5	-	< 0.5	-	-	< 0.5	-	< 0.5
Toluene		0.5 µg/L	-	< 0.5	-	< 0.5	-	< 0.5	-	< 0.5	-	-	< 0.5	-	< 0.5
Ethylbenzene		0.5 µg/L	-	< 0.5	-	< 0.5	-	< 0.5	-	< 0.5	-	-	< 0.5	-	< 0.5
Total Xylenes		1.5 µg/L	-	< 1.5	-	< 1.5	-	< 1.5	-	< 1.5	-	-	< 1.5	-	< 1.5
Total PAHs		1 µg/L	-	< 1	-	< 1	-	< 1	-	-	< 1	-	< 1	-	< 1
Total Polychlorinated biphenyls		5 µg/L	-	< 5	-	< 5	-	< 5	-	-	< 5	-	< 5	-	< 5
OC Pesticides		20 µg/L	-	< 20	-	< 20	-	< 20	-	< 20	-	-	< 20	-	< 20
OP Pesticides		3 µg/L	-	< 3	-	< 3	-	< 3	-	-	< 3	-	< 3	-	< 3
TPH C6C9		40 mg/L	-	< 40	-	< 40	-	< 40	-	< 40	-	-	< 40	-	< 40
TPH C10C36		450 µg/L	-	< 450	-	< 450	-	< 450	-	-	< 450	-	< 450	-	< 450
Standing Water Level		0.01 m	-	-	-	-	-	-	-	-	-	-	-	-	-

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		Sample ID	SW3	SW3	SW3	SW3	SW3	SW3	SW3	SW3	SW3	SW3	SW3	SW3	SW3	SW3	SW3
		Sample Date	11/10/2017	18/09/2018	26/03/2019	27/05/2020	15/09/2020	11/03/2021	10/11/2021	15/03/2022	14/02/2023	30/05/2023	11/10/2023	21/02/2024	3/09/2024	7/03/2025	
Analyte	LOR	Units	PS	PS	PS	PS	PS	PS	PS	PS	PS	PS	PS	PS	PS	PS	
pH (Lab)		0 No unit	6.8	7.7	7.2	7.4	7.9	6.9	7.2	7	7.9	7.6	8.3	7.3	7.8	8.1	
Electrical Conductivity (Lab)		2 µS/cm	87	670	540	610	600	380	500	710	1600	1800	2000	940	690	970	
Total Dissolved Solids		10 mg/L	-	-	770	1100	-	810	-	430	-	1000	-	800	-	610	
Total Suspended Solids		5 mg/L	60	110	620	37	< 5	170	26	37	14	6	10	340	8	11	
Chloride		1 mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Fluoride		0.1 mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Sulfate (SO4)		1 mg/L	-	-	20	19	-	13	-	13	-	6.9	-	18	-	29	
Calcium (Ca)		0.2 mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Magnesium (Mg)		0.1 mg/L	-	-	13	12	-	11	-	12	-	28	-	11	-	17	
Potassium (K)		0.1 mg/L	9.1	16	16	17	13	11	13	12	31	29	34	20	29	25	
Sodium (Na)		0.5 mg/L	-	-	52	73	-	46	-	110	-	290	-	120	-	120	
Total Organic Carbon		0.2 mg/L	47	14	20	23	17	15	16	13	33	31	30	14	18	17	
Ammonia (NH3) as N		0.01 mg/L	< 0.01	0.25	0.15	0.081	0.09	0.04	0.08	0.12	0.38	1.9	0.18	0.38	0.66	0.07	
Nitrate (NO3) as N		0.005 mg/L	< 0.005	0.13	1	2	0.28	0.064	0.73	< 0.005	0.014	0.009	0.31	3.8	1.7	0.055	
Nitrite (NO2) as N		0.005 mg/L	< 0.005	0.022	0.056	0.037	0.01	0.007	0.006	0.008	< 0.005	0.03	0.015	0.14	0.093	< 0.005	
Total Nitrogen		0.05 mg/L	1.7	1.6	3.2	4	1.9	4.6	2.3	1.1	2.7	3.9	2.5	7.1	4.4	1.9	
Total Kjeldahl Nitrogen		0.05 mg/L	1.7	1.5	2.1	1.9	1.6	4.5	1.5	1.1	2.7	3.9	2.2	3.2	2.6	1.9	
Reactive Phosphorus as P		0.005 mg/L	-	-	0.011	0.036	-	0.009	-	< 0.005	-	0.007	-	0.027	-	< 0.005	
Mercury (Hg)		0.0001 mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Hexavalent Chromium (CrVI)		0.004 mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Manganese (Mn)		0.001 mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Arsenic (As)		0.001 mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Barium (Ba)		0.001 mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Cadmium (Cd)		0.0001 mg/L	-	-	-	-	-	0.0001	-	-	-	-	-	-	-	-	
Chromium (Cr)		0.001 mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Cobalt (Co)		0.001 mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Copper (Cu)		0.001 mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Lead (Pb)		0.001 mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Zinc (Zn)		0.005 mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Aluminium (Al)		0.005 mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Total Phenols		0.01 mg/L	-	-	< 0.01	< 0.01	-	0.01	-	< 0.05	-	< 0.05	-	< 0.05	-	< 0.05	
Benzene		0.5 µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Toluene		0.5 µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Ethylbenzene		0.5 µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Total Xylenes		1.5 µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Total PAHs		1 µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Total Polychlorinated biphenyls		5 µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
OC Pesticides		20 µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
OP Pesticides		3 µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TPH C6C9		40 µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TPH C10C36		450 µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Standing Water Level		0.01 m	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

		Sample ID	SW4	SW4	SW4	SW4	SW4	SW4	SW4	SW4	SW4	SW4	SW4	SW4	SW4	SW4	SW4
Sample Date			11/10/2017	13/03/2018	27/05/2020	15/09/2020	11/03/2021	10/11/2021	15/03/2022	14/02/2023	30/05/2023	11/10/2023	21/02/2024	3/09/2024	7/03/2025		
Analyte	LOR	Units	PS	PS	PS	PS	PS	PS	PS	PS	PS	PS	PS	PS	PS	PS	PS
pH (Lab)		0 No unit	6.8	7.9	7.5	7.5	7.1	7	6.8	7.1	7.1	7.3	6.9	7.3	7.4		
Electrical Conductivity (Lab)		2 µS/cm	270	660	390	260	390	230	340	370	390	400	300	270	370		
Total Dissolved Solids		10 mg/L	-	530	420	-	230	-	200	-	270	-	280	-	300		
Total Suspended Solids		5 mg/L	87	150	120	38	8	9	25	< 5	38	20	24	11	15		
Chloride		1 mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-		
Fluoride		0.1 mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-		
Sulfate (SO4)		1 mg/L	-	8.6	26	-	4.4	-	2.9	-	4	-	7.4	-	1.1		
Calcium (Ca)		0.2 mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-		
Magnesium (Mg)		0.1 mg/L	-	18	11	-	8	-	6.9	-	12	-	5.8	-	8.7		
Potassium (K)		0.1 mg/L	15	12	15	19	40	23	44	32	33	37	30	25	32		
Sodium (Na)		0.5 mg/L	-	84	29	-	22	-	14	-	20	-	9.4	-	15		
Total Organic Carbon		0.2 mg/L	47	23	28	27	33	25	30	35	33	31	34	26	39		
Ammonia (NH3) as N		0.01 mg/L	0.34	0.14	0.072	0.05	0.65	0.13	< 0.01	0.5	0.59	0.07	0.34	0.1	0.02		
Nitrate (NO3) as N		0.005 mg/L	0.023	< 0.005	0.89	0.16	0.031	0.008	< 0.005	0.11	0.014	< 0.005	5.1	0.15	< 0.005		
Nitrite (NO2) as N		0.005 mg/L	< 0.005	0.012	0.011	0.057	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.098	0.023	< 0.005		
Total Nitrogen		0.05 mg/L	2.4	2.4	2.7	2.6	3.9	2	3	3.2	2.9	2.5	10	2.7	2.9		
Total Kjeldahl Nitrogen		0.05 mg/L	2.4	2.4	1.8	2.4	3.9	2	3	3.1	2.8	2.5	5	2.5	2.9		
Reactive Phosphorus as P		0.005 mg/L	-	0.009	0.085	-	0.08	-	0.096	-	0.15	-	0.43	-	0.092		
Mercury (Hg)		0.0001 mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-		
Hexavalent Chromium (CrVI)		0.004 mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-		
Manganese (Mn)		0.001 mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-		
Arsenic (As)		0.001 mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-		
Barium (Ba)		0.001 mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-		
Cadmium (Cd)		0.0001 mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-		
Chromium (Cr)		0.001 mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-		
Cobalt (Co)		0.001 mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-		
Copper (Cu)		0.001 mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-		
Lead (Pb)		0.001 mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-		
Zinc (Zn)		0.005 mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-		
Aluminium (Al)		0.005 mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-		
Total Phenols		0.01 mg/L	-	< 0.01	< 0.01	-	< 0.01	-	< 0.05	-	< 0.05	-	< 0.05	-	< 0.05		
Benzene		0.5 µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-		
Toluene		0.5 µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-		
Ethylbenzene		0.5 µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-		
Total Xylenes		1.5 µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-		
Total PAHs		1 µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-		
Total Polychlorinated biphenyls		5 µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-		
OC Pesticides		20 µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-		
OP Pesticides		3 µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-		
TPH C6C9		40 µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-		
TPH C10C36		450 µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-		
Standing Water Level		0.01 m	-	-	-	-	-	-	-	-	-	-	-	-	-		