Snowy Hydro 2.0 Main Works EPL Sampling: 01 - 31 January 2025

Environmental Protection Licence No:	21266
Licensee:	Snowy Hydro Limited
Licensee address:	PO Box 332, Cooma, NSW 2630
Premises:	Snowy 2.0 Pumped Hydro Power Station Talbingo and Tantangara, Kosciuszko National Park and Rock Forest, Kosciuszko NSW 2642
EPA Public Register:	https://apps.epa.nsw.gov.au/prpoeoapp/Detail.aspx?instid=21266&id=21266&option=licence&searchrange=licence&range=POEO%20licence&prp=no&status=Issued

Monthly water sampling and analysis is performed as part of the Snowy 2.0 Approval Conditions, Environmental Protection Licence No 21266 - Variation 20 December 2024, and the approved Water Management Plan to ensure that works are not impacting on nearby receiving waters.

A map showing the location of each of the EPL named sampling points is provided after the results tables.

Surface Water Results: Surface Water monitoring results indicate sporadic exceedances throughout the reporting period. These results are likely attributed to fluctuations in water levels, which influences water temperatures and reduces flow velocity across the surface water managent stream. Minor exceedances in parameters like phosphorus and nutrients were observed, which are considered to be influenced by the aforementioned conditional settings. Elevated nutrient concentrations were primarily observed in leachate basin locations and will be discussed further in the dedicated leachate results section.

Reservoir Results: Minor exceedances in parameters such as phosphorus, metals, and nutrients were observed. Notwithstanding these exceedances, likely attributed to a combination of decreased water levels, high surface temperatures, elevated suspended solids that were observed during sampling. These influences are considered to have impacted results for january.

Discharge Results: As per the latest revision EPL21266, only water within discharge criteria can be released into Talbingo and Tantangara reservoirs from the final discharge points. FGJV is committed to mitigating environmental impacts, so the Environmental Team only permits discharge if all parameters are within WQO. There were no discharges during January at Talbingo and Tantangara. However, if the water met reuse criteria, the water was reused.

Groundwater Results: Throughout January 2025, pH and other such analytes exceedances were observed at both upstream and downstream monitoring locations at all three sites. The observed results are likely attributed to seasonal variation of environmental inputs (for example, an extended period of no rainfall). Minor exceedances in metals and total nitrogen concentrations were also observed, particularly near spoil emplacement areas, with higher exceedances observed downstream of the GF01 emplacement. Additional measures such as groundwater extraction and transportation for treatment, spoil emplacement permit reviews and management strategy reviews are underway. FGJV remains committed to implementing all necessary actions to minimize environmental impacts.

Leachate results: Leachate analysis revealed minor exceedances in pH, electrical conductivity (EC), dissolved oxygen (DO), and turbidity, including comprehensive analytes, these results are within expectations for locations storing such water.

Snowy Hydro 2.0 Main Works
Monthly EPL Sampling: 01-31 January 2025 - Groundwater

Analyte	Unit	Limit of Reporting	Water Quality Objective Value*	EPL56	EPL57	EPL58	EPL68	EPL69	EPL70	EPL72	EPL73	EPL80	EPL81	EPL82	EPL83	EPL87	EPL88	EPL89	EPL 90	EPL 91	EPL92	EPL93	EPL94	EPL95	EPL96	EPL97	EPL102	EPL103	EPL104	EPL105	EPL113	EPL114	EPL115	EPL116	EPL117
				20/01/25	20/01/25	20/01/25	25/01/25	25/01/25	25/01/25	26/01/25	26/01/25	13/01/25	13/01/25	13/01/25	13/01/25	13/01/25	13/01/25	13/01/25	20/01/25	20/01/25	6/01/25	20/01/25	20/01/25	20/01/25	6/01/25	20/01/25	12/01/25	25/01/25	25/01/25	25/01/25	9/01/25	9/01/25	9/01/25	9/01/25	9/01/25
Physiochemical																																			
pH	**pH Unit**	-	6.5-8	7.32	7.9	5.83	6.1	6.36	6.45	4.87	6.54	6.77	6.77	6.61	6.17	5.71	6.95	6.53	5.74	6.62	7.2	6.91	6.32	6.31	7.14	6.02	7.53	6.41	6.27	7.09	6.55	7.42	7.33	7.21	6.63
Electrical Conductivity	**µS/cm**	-	30-350	242	248	1200	34	31	93	36	123	876	814	2650	563	585	830	349	72	233	120	242	170	702	860	424	402	50	49	170	125	382	365	181	136
Oxidation Reduction Potential	**mV**	-	No Water Quality Objective Value	256	227	161	195	191	207	328	191	-52	-46	-46	56	231	-150	51	274	168	154	38	48	131	28	121	-43	214	197	182	154	85	-20	120	-49
Temperature	**°C**	-	No Water Quality Objective Value	15.82	17.69	20.06	14.98	15.5	17.67	12.53	16.56	20.04	17.53	19.12	18.49	17.4	18.36	18.39	16.06	19.94	17.13	17.6	17.52	20.63	17.32	19.11	12.04	16.39	16.01	16.86	13.93	16.59	15.52	16.55	16.39
Dissolved Oxygen	**% saturation**	-	No Water Quality Objective Value	21.6	23.5	20.6	80.9	76.5	54.2	60.1	54.8	18.4	19	13.6	16.6	95.7	28.1	22.7	60.8	34.9	46.5	29.5	24.3	20.4	24.4	18	64.3	64.2	45.7	55.9	102.6	18.6	18.1	71.3	11.6
Turbidity	**NTU**	-	No Water Quality Objective Value	21.7	50.7	90.5	0.8	116	1000	62.1	111	62.2	845	84.6	160	1000	0.9	172	197	21.8	301	50.9	83.3	65.5	279	4.1	42.7	4.2	60.9	3.5	752	7.1	278	1000	576
Laboratory analytes																																			
TSS	**mg/L**	5	No Water Quality Objective Value	9	7	109	<5	312	1,460	27	62	26	372	172	206	6,600	6	191	106	36	519	103	72	124	272	21	11	10	89	13	341	21	329	6,770	464
Hardness as CaCO3	**mg/L**	1	No Water Quality Objective Value	154	136	448	7	9	29	13	22	348	422	1,240	84	131	112	64	16	125	40	124	115	350	311	142	121	2	9	40	43	204	179	85	43
Nutrients																																			
Ammonia as N	**µg/L**	10	13	10	<10	50	<10	30	20	20	20	<10	100	100	<10	230	310	20	20	10	<10	30	<10	10	<10	10	30	10	<10	<10	<10	10	<10	<10	<10
Nitrite + Nitrate as N (NOx)	**µg/L**	10	15	170	300	77,400	640	160	630	29	40	6	6	6	20	6,490	2	30	140	130	30	7	5	22,700	32,600	160	<10	742	240	2,840	10	5	3	40	20
Kjeldahl Nitrogen Total	**µg/L**	100	No Water Quality Objective Value	<100	<100	6,600	<100	<100	600	<100	<100	200	400	200	200	3,500	500	200	100	200	<100	100	<100	4,100	700	100	200	<100	100	200	<1,000	<100	<100	<2,000	<100
Nitrogen (Total)	**µg/L**	100	250	200	300	87,400	600	200	1,200	<100	<100	200	400	200	200	10,000	500	200	200	300	<100	100	<100	26,800	33,800	300	200	800	300	3,000	<1,000	<100	<100	<2,000	<100
Reactive Phosphorus	**µg/L**	1	15	15	19	11	<1	1	17	21	13	3	4	2	6	6	5	7	10	20	<1	26	14	12	4	21	15	10	8	3	4	11	8	17	27
Phosphorus (Total)	**µg/L**	10	20	60	70	60	50	140	1,230	50	30	40	180	20	20	3,190	50	40	370	50	70	750	850	1,080	150	800	30	40	90	20	160	20	80	940	460
Inorganics																																			
Cyanide Total	**µg/L**	4	4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Hydrocarbons																																			
Oil and Grease	**mg/L**	1	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Metals																																			
Aluminium (total)	**µg/L**	5	No Water Quality Objective Value	144	356	2,110	336	1,310	18,300	477	540	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aluminium (dissolved)	**µg/L**	5	27	<5	<5	5	<5	6	<5	8	<5	<5	<5	<5	8	<5	<5	<5	<5	10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	10	<5	<5	<5	<5
Arsenic (total)	**µg/L**	0.2	No Water Quality Objective Value	<0.2	2.3	3.1	<0.2	0.5	1.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic (dissolved)	**µg/L**	0.2	0.8	<0.2	2.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	2.9	5.8	8.5	2.7	<0.2	12.2	0.3	<0.2	0.2	0.3	4.8	0.5	0.5	<0.2	0.2	0.6	<0.2	<0.2	<0.2	0.4	0.7	0.4	0.6	0.5
Chromium (III+VI) (total)	**µg/L**	0.2	No Water Quality Objective Value	0.4	0.8	5.9	0.9	1.6	8.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium (III+VI) (dissolved)	**µg/L**	0.2	0.01	<0.2	<0.2	0.2	<0.2	<0.2	<0.2	<0.2	0.2	<0.2	<0.2	<0.2	<0.2	0.4	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	<0.2	<0.2	<0.2	<0.2	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Copper (total)	**µg/L**	0.5	No Water Quality Objective Value	8.4	13.4	3.8	0.8	2.2	18.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper (dissolved)	**µg/L**	0.5	1	1.7	2.2	0.8	<0.5	<0.5	<0.5	10.0	1.0	<0.5	<0.5	<0.5	1.6	<0.5	<0.5	4.1	<0.5	<0.5	<0.5	<0.5	<0.5	1.8	0.6	<0.5	<0.5	3.5	1.6	0.7	3.1	0.6	<0.5	<0.5	<0.5
Iron (total)	**µg/L**	2	No Water Quality Objective Value	171	368	4,300	318	1,060	12,400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron (dissolved)	**µg/L**	2	300	<2	<2	7	66	6	<2	<2	<2	4	220	1,340	2	<2	59	<2	6	4	<2	4	4	<2	<2	<2	<2	<2	<2	<2	26	<2	<2	<2	<2
Lead (total)	**µg/L**	0.1	No Water Quality Objective Value	1.4	0.9	25.1	0.1	0.7	4.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead (dissolved)	**µg/L**	0.1	1	<0.1	<0.1	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.4	<0.1	<0.1	<0.1	<0.1
Manganese (total)	**µg/L**	0.5	No Water Quality Objective Value	18.0	97.7	494	117	60.8	158	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese (dissolved)	**µg/L**	0.5	1,200	6.8	57.6	381	97.4	3.8	7.0	5.5	6.7	183	189	354	84.9	37.2	164	19.4	6.1	136	64.1	108	393	773	3.1	437	224	1.1	9.2	17.0	104	336	510	98.4	273
Nickel (total)	**µg/L**	0.5	No Water Quality Objective Value	<0.5	1.4	12.3	6.0	1.8	5.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel (dissolved)	**µg/L**	0.5	8	<0.5	<0.5	6.0	4.5	<0.5	<0.5	1.3	<0.5	15.0	0.8	0.8	5.5	2.0	2.0	1.8	2.4	1.1	2.2	0.6	1.5	12.3	2.4	2.6	0.8	<0.5	<0.5	3.0	0.6	2.4	<0.5	0.9	1.0
Silver (total)	**µg/L**	0.01	No Water Quality Objective Value	<0.01	<0.01	0.12	<0.01	<0.01	<0.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver (dissolved)	**µg/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	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Zinc (total)	**µg/L**	1	No Water Quality Objective Value	5	3	24	41	6	22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc (dissolved)	**µg/L**	1	2.4	2	<1	12	34	2	<1	6	<1	<1	<1	2	3	<1	<1	<1	9	4	17	<1	6	32	2	35	<1	<1	1	60	5	4	<1	3	<1

* Water Quality Objective values for groundwater refer to the default trigger values for physical and chemical stressors in south-east Australia (upland rivers) for the protection of 99% of aquatic species ANZECC / ARMCANZ (2000), they are not pollutant limits imposed by EPL 21266.

\- Sample not required at this location.

Snowy Hydro 2.0 Main Works

Monthly EPL Sampling: 01-31 January 2025 - Talbingo and Tantangara Reservoir

Analyte	Unit	Limit of Reporting	Water Quality Objective Value*	EPL10	EPL11	EPL28	EPL29	EPL32	EPL38	EPL39	EPL40	EPL46	EPL51	EPL107	EPL108	EPL109
Field				15/1/25	15/1/25	19/1/25	19/1/25	19/1/25	18/1/25	18/1/25	4/1/25	19/1/25	19/1/25	4/1/25	19/1/25	19/1/25
pH	**pH Unit**	-	6.5-8	7.62	7.97	7.76	7.1	7.52	7.63	7.53	7.29	6.95	7.1	8.16	8.17	6.97
Electrical Conductivity	**µS/cm**	-	20-30	97	79	30	25	26	38	27	22.4	26	25	49	43	85
Oxidation Reduction Potential	**mV**	-	No Water Quality Objective Value	184	177	212	241	-48	200	201	199.1	244	238	170	169	175
Temperature	**°C**	-	No Water Quality Objective Value	25.85	25.2	18.28	19.19	18.94	18.47	14.94	24.8	19.01	19.01	24.24	23.75	23.04
Dissolved Oxygen	**% saturation**	-	90-110	63.5	63.7	109.1	92.4	91.9	74.6	90	100	90	91	71.8	69.4	81.3
Turbidity	**NTU**	-	1-20	0	1	8.6	8.9	7.1	30.6	9.6	4.13	6.3	7.4	3.1	3.4	6.3
Laboratory analytes																
Total suspended solids	**mg/L**	5	No Water Quality Objective Value	<5	<5	<5	<5	<5	34	<5	<5	<5	5	<5	<5	17
Hardness as $CaCO_3$ (filtered)	**mg/L**	1	No Water Quality Objective Value	43	38	9	9	9	9	13	9	9	<1	17	14	14
Nutrients																
Ammonia as N	**µg/L**	10	10	20	50	<10	<10	40	<10	10	10	<10	<10	<10	10	<10
Nitrite + Nitrate as N (NOx)	**µg/L**	10	10	<10	5	<2	4	<10	8	10	4	2	<10	<2	8	<2
Kjeldahl Nitrogen Total	**µg/L**	100	No Water Quality Objective Value	200	200	300	300	400	400	200	300	400	300	200	200	200
Nitrogen (Total)	**µg/L**	100	350	200	200	300	300	400	400	200	300	400	300	200	200	200
Reactive Phosphorus	**µg/L**	1	5	2	<1	4	1	4	3	3	4	4	4	5	2	2
Phosphorus (Total)	**µg/L**	10	10	30	<10	40	90	60	80	60	50	60	50	<10	10	<10
Inorganics																
Cyanide Total	**µg/L**	4	7	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Hydrocarbons																
Oil and Grease	**mg/L**	1	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Metals																
Aluminium (dissolved)	**µg/L**	5	55	<5	<5	30	30	30	31	27	25	30	33	6	<5	<5
Arsenic (dissolved)	**µg/L**	0.2	13	0.5	0.3	0.3	0.3	0.3	0.3	<0.2	<0.2	0.3	0.3	0.2	<0.2	0.2
Chromium (III+VI) (dissolved)	**µg/L**	0.2	1	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Copper (dissolved)	**µg/L**	0.5	14	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Iron (dissolved)	**µg/L**	2	300	36	16	278	273	280	285	161	77	278	310	6	6	5
Lead (dissolved)	**µg/L**	0.1	3.4	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Manganese (dissolved)	**µg/L**	0.5	1,900	2.0	<0.5	1.6	1.7	1.6	2.0	4.5	5.7	1.7	1.8	<0.5	<0.5	<0.5
Nickel (dissolved)	**µg/L**	0.5	11	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Silver (dissolved)	**µg/L**	0.01	0.05	<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
Zinc (dissolved)	**µg/L**	1	8	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Biological																
Faecal Coliforms	**CFU/100mL**	1	10/100^	590	2,700	100	-	-	-	-	-	-	80	-	-	-
Biochemical Oxygen Demand	**mg/L**	2	1/5^	<2	<2	3	-	-	-	-	-	-	<2	-	-	-

***** Water Quality Objective values for Talbingo and Tantangara Reservoir refer to the default trigger values for physical and chemical stressors in south-east Australia (fresh lakes and reservoirs) for the protection of 95% of aquatic species ANZECC / ARMCANZ (2000), they are not pollutant limits imposed by EPL 21266.

****** Algal blooms can present as feacal coliforms

^ 90th percentile concentration limits / 100 percentile concentration limits

- Sample not required at this location.

Snowy Hydro 2.0 Main Works
Monthly EPL Sampling: 01-31 January 2025 - Surface Water

Analyte	Unit	Limit of Reporting	Water Quality Objective Value*	EPL5	EPL6	EPL8	EPL9	EPL12	EPL14	EPL15	EPL16	EPL24	EPL26	EPL27	EPL30	EPL31	EPL33	EPL34	EPL35	EPL36	EPL37	EPL52	EPL53	EPL54	EPL55	EPL67	EPL71	EPL84	EPL85	EPL86	EPL98	EPL99	EPL100	EPL101	EPL106	EPL110	EPL118	EPL120	EPL122
Field				4/01/25	4/01/25	4/01/25	4/01/25	4/01/25	4/01/25	4/01/25	4/01/25	3/01/25	12/01/25	12/01/25	18/01/25	18/01/25	18/01/25	18/01/25	18/01/25	26/01/25	26/01/25	13/01/25	Dry	Dry	Dry	Dry	Dry	13/01/25	Dry	Dry	Dry	17/01/25	17/01/25	17/1/25	11/1/25	Dry	Dry	Dry	Dry
pH	-	-	6.5-8	8.16	7.72	7.78	7.96	8.01	7.62	7.62	8.28	7.68	7.51	7.81	7.36	7.19	7.32	7.67	7.16	6.96	7.01	8.98	Dry	Dry	Dry	Dry	Dry	8.33	Dry	Dry	Dry	9.14	8.33	8.44	8.41	Dry	Dry	Dry	Dry
Electrical Conductivity	µS/cm	-	30-350	136	118	146	141	138	135	136	140	1220	42	42	39	28	28	30	28	50	53	1250	Dry	Dry	Dry	Dry	Dry	1440	Dry	Dry	Dry	220	538	670	1150	Dry	Dry	Dry	Dry
Oxidation Reduction Potential	mV	-	No Water Quality Objective Value	141	163	164	153	153	170	172	97	70	158	192	208	212	206	193	195	162	185	-15	Dry	Dry	Dry	Dry	Dry	151	Dry	Dry	Dry	38	88	88	83	Dry	Dry	Dry	Dry
Temperature	°C	-	No Water Quality Objective Value	19.63	18.53	21.35	21.64	19.66	19.83	20.61	22.21	18.52	12.45	13.32	12.32	12.17	14.26	12.98	12.09	23	28.32	25.56	Dry	Dry	Dry	Dry	Dry	20.19	Dry	Dry	Dry	14.62	15.73	13.42	23.1	Dry	Dry	Dry	Dry
Dissolved Oxygen	% saturation	-	90-110	86.5	84.7	85.7	85.7	97.1	70.9	84.9	79.9	51.3	63.4	57.2	85.8	81	80.6	93.8	94.5	69.3	71.6	94.8	Dry	Dry	Dry	Dry	Dry	69.1	Dry	Dry	Dry	70.1	77.6	78.9	100.8	Dry	Dry	Dry	Dry
Turbidity	NTU	-	2-25	0.54	2	9.7	7.7	0.6	4.9	1.1	1.2	0.4	3.7	10.4	15.4	0	5.7	0	0	7.6	38.5	17.6	Dry	Dry	Dry	Dry	Dry	863	Dry	Dry	Dry	350	59.3	80	15.3	Dry	Dry	Dry	Dry
Laboratory analytes																																							
TSS	mg/L	5	No Water Quality Objective Value	<5	<5	<5	<5	<5	<5	<5	<5	7	<5	<5	<5	<5	7	<5	<5	<5	8	11	Dry	Dry	Dry	Dry	Dry	322	Dry	Dry	Dry	142	28	45	<5	Dry	Dry	Dry	Dry
Hardness as CaCO3	mg/L	1	No Water Quality Objective Value	71	62	77	72	71	71	71	71	392	18	18	16	13	9	13	13	20	20	355	Dry	Dry	Dry	Dry	Dry	21	Dry	Dry	Dry	90	188	243	327	Dry	Dry	Dry	Dry
Nutrients																																							
Ammonia as N	µg/L	10	13	<10	<10	<10	<10	10	<10	<10	10	<10	10	<10	<10	30	20	<10	<10	20	10	20	Dry	Dry	Dry	Dry	Dry	390	Dry	Dry	Dry	560	30	30	20	Dry	Dry	Dry	Dry
Nitrite + Nitrate as N (NOx)	µg/L	10	15	10	<10	70	4	6	4	7	6	34,600	10	6	10	<2	<10	7	4	20	4	26,900	Dry	Dry	Dry	Dry	Dry	10,500	Dry	Dry	Dry	2,080	17,500	30,600	18,100	Dry	Dry	Dry	Dry
Kjeldahl Nitrogen Total	µg/L	100	No Water Quality Objective Value	<100	<100	200	100	100	<100	100	<100	3,100	200	100	100	200	400	300	200	200	400	3,200	Dry	Dry	Dry	Dry	Dry	2,600	Dry	Dry	Dry	1,100	3,100	5,400	<100	Dry	Dry	Dry	Dry
Nitrogen (Total)	µg/L	100	250	<100	<100	300	100	100	<100	100	<100	37,700	200	100	100	200	400	300	200	200	400	30,100	Dry	Dry	Dry	Dry	Dry	13,100	Dry	Dry	Dry	3,200	20,900	36,000	18,200	Dry	Dry	Dry	Dry
Reactive Phosphorus	µg/L	1	15	4	6	6	4	4	3	3	5	2	4	6	6	6	<1	2	1	7	9	2	Dry	Dry	Dry	Dry	Dry	15	Dry	Dry	Dry	11	2	5	6	Dry	Dry	Dry	Dry
Phosphorus (Total)	µg/L	10	20	<10	10	10	30	10	50	30	30	30	40	10	40	40	80	70	80	30	20	40	Dry	Dry	Dry	Dry	Dry	330	Dry	Dry	Dry	70	80	100	20	Dry	Dry	Dry	Dry
Inorganics																																							
Cyanide Total	µg/L	4	4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	Dry	Dry	Dry	Dry	Dry	<4	Dry	Dry	Dry	<4	<4	<4	<4	Dry	Dry	Dry	Dry
Hydrocarbons																																							
Oil and Grease	mg/L	1	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	Dry	Dry	Dry	Dry	Dry	<1.0	Dry	Dry	Dry	<1.0	<1.0	<1.0	<1.0	Dry	Dry	Dry	Dry
Metals																																							
Aluminium (total)	µg/L	5	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	82	Dry	Dry	Dry	Dry	-	-	-	-	-	-	-	-	-	-	-	-
Aluminium (dissolved)	µg/L	5	27	<5	<5	<5	<5	<5	<5	<5	<5	<5	8	7	30	13	22	23	22	20	54	13	Dry	Dry	Dry	Dry	Dry	59	Dry	Dry	Dry	52	61	55	<5	Dry	Dry	Dry	Dry
Arsenic (total)	µg/L	0.2	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.1	Dry	Dry	Dry	Dry	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic (dissolved)	µg/L	0.2	0.8	0.5	0.3	0.5	0.5	0.5	0.5	0.5	0.5	<0.2	<0.2	<0.2	<0.2	<0.2	0.3	<0.2	<0.2	0.4	0.6	5.6	Dry	Dry	Dry	Dry	Dry	11.3	Dry	Dry	Dry	1.6	2.3	3.6	2.1	Dry	Dry	Dry	Dry
Chromium (III+VI) (total)	µg/L	0.2	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.6	Dry	Dry	Dry	Dry	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium (III+VI) (dissolved)	µg/L	0.2	0.01	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.3	0.3	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	1.5	Dry	Dry	Dry	Dry	Dry	51.5	Dry	Dry	Dry	12.2	4.5	14.5	2.5	Dry	Dry	Dry	Dry
Copper (total)	µg/L	0.5	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.7	Dry	Dry	Dry	Dry	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper (dissolved)	µg/L	0.5	1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	Dry	Dry	Dry	Dry	Dry	1.3	Dry	Dry	Dry	<0.5	0.8	1.2	<0.5	Dry	Dry	Dry	Dry
Iron (total)	µg/L	2	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	51	Dry	Dry	Dry	Dry	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron (dissolved)	µg/L	2	300	4	11	7	8	4	5	6	4	<2	67	50	63	44	242	180	182	316	380	<2	Dry	Dry	Dry	Dry	Dry	17	Dry	Dry	Dry	2	<2	<2	<2	Dry	Dry	Dry	Dry
Lead (total)	µg/L	0.1	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	Dry	Dry	Dry	Dry	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead (dissolved)	µg/L	0.1	1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	Dry	Dry	Dry	Dry	Dry	<0.1	Dry	Dry	Dry	<0.1	<0.1	<0.1	<0.1	Dry	Dry	Dry	Dry
Manganese (total)	µg/L	0.5	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.8	Dry	Dry	Dry	Dry	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese (dissolved)	µg/L	0.5	1,200	1.1	4.8	1.4	4.0	0.8	1.2	1.5	2.2	300	8.2	2.7	4.5	2.3	1.4	4.6	5.7	37.0	1.9	2.4	Dry	Dry	Dry	Dry	Dry	<0.5	Dry	Dry	Dry	3.6	8.9	5.2	0.9	Dry	Dry	Dry	Dry
Nickel (total)	µg/L	0.5	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	Dry	Dry	Dry	Dry	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel (dissolved)	µg/L	0.5	8	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	2.4	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	Dry	Dry	Dry	Dry	Dry	0.6	Dry	Dry	Dry	<0.5	0.9	0.9	2.2	Dry	Dry	Dry	Dry
Silver (total)	µg/L	0.01	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.01	Dry	Dry	Dry	Dry	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver (dissolved)	µg/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	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	Dry	Dry	Dry	Dry	Dry	<0.01	Dry	Dry	Dry	<0.01	<0.01	<0.01	<0.01	Dry	Dry	Dry	Dry
Zinc (total)	µg/L	1	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	Dry	Dry	Dry	Dry	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc (dissolved)	µg/L	1	2.4	<1	<1	<1	<1	<1	<1	<1	<1	10	<1	<1	<1	<1	<1	<1	<1	5	<1	1	Dry	Dry	Dry	Dry	Dry	<1	Dry	Dry	Dry	<1	<1	<1	<1	Dry	Dry	Dry	Dry

* Water Quality Objective values for surface water refer to the default trigger values for physical and chemical stressors in south-east Australia (upland rivers) for the protection of 99% of aquatic species ANZECC / ARMCANZ (2018), they are not pollutant limits imposed by EPL 21266.

\- Samples not required

Snowy Hydro 2.0 Main Works

Monthly EPL Sampling: 01-31 January 2025 - Discharge Water

Analyte	Unit	Limit of Reporting	Water Quality Objective Value*	EPL 41	EPL 43	EPL 44	EPL 45	EPL 47	EPL 48	EPL 49	EPL 50
Flow Rate				22/01/2025							22/01/2024
Inflow#	**ML/day**	-	-	-	0.0000	0.3858	0.0478	0.2103	0.0889	0.7156	-
Outflow#	**ML/day**	-	4.32 (EPL 43 / 50)	-	-	-	-	-	-	-	-
Field											
pH	**pH Unit**	-	6.5-8.5	6.92	-	-	-	-	-	-	7.44
Electrical Conductivity	**µS/cm**	-	700 (EPL 41) / 200 (EPL 50)	161	-	-	-	-	-	-	60.7
Oxidation Reduction Potential	**mV**	-	No Water Quality Objective Value	170	-	-	-	-	-	-	176.5
Temperature	**°C**	-	15	25.46	-	-	-	-	-	-	20.4
Dissolved Oxygen	**% saturation**	-	No Water Quality Objective Value	63.1	-	-	-	-	-	-	87.2
Turbidity	**NTU**	-	<25	20	-	-	-	-	-	-	22.49
Laboratory analytes											
Total suspended solids	**mg/L**	5	5/10	<5	-	-	-	-	-	-	<5
Hardness as $CaCO_3$ (filtered)	**mg/L**	1	No Water Quality Objective Value	<1	-	-	-	-	-	-	<1
Nutrients											
Ammonia as N	**µg/L**	10	200/2000^	3,030	-	-	-	-	-	-	200
Nitrite + Nitrate as N (NOx)	**µg/L**	10	10	310	-	-	-	-	-	-	220
Kjeldahl Nitrogen Total	**µg/L**	100	No Water Quality Objective Value	5,200	-	-	-	-	-	-	600
Nitrogen (Total)	**µg/L**	100	350/-^	5,500	-	-	-	-	-	-	800
Reactive Phosphorus	**µg/L**	1	No Water Quality Objective Value	<1	-	-	-	-	-	-	<1
Phosphorus (Total)	**µg/L**	10	100/300^	10	-	-	-	-	-	-	20
Inorganics											
Cyanide Total	**µg/L**	4	No Water Quality Objective Value	<4	-	-	-	-	-	-	<4
Hydrocarbons											
Oil and Grease	**mg/L**	1	2/5^	<1.0	-	-	-	-	-	-	<1.0
Metals											
Aluminium (dissolved)	**µg/L**	5	55	6	-	-	-	-	-	-	<5
Arsenic (dissolved)	**µg/L**	0.2	13	<0.2	-	-	-	-	-	-	<0.2
Chromium (III+VI) (dissolved)	**µg/L**	0.2	1	<0.2	-	-	-	-	-	-	<0.2
Copper (dissolved)	**µg/L**	0.5	14	<0.5	-	-	-	-	-	-	<0.5
Iron (dissolved)	**µg/L**	2	300	<2	-	-	-	-	-	-	<2
Lead (dissolved)	**µg/L**	0.1	3.4	<0.1	-	-	-	-	-	-	<0.1
Manganese (dissolved)	**µg/L**	0.5	1,900	<0.5	-	-	-	-	-	-	1.1
Nickel (dissolved)	**µg/L**	0.5	11	<0.5	-	-	-	-	-	-	<0.5
Silver (dissolved)	**µg/L**	0.01	0.05	<0.01	-	-	-	-	-	-	<0.01
Zinc (dissolved)	**µg/L**	1	8	<1	-	-	-	-	-	-	1
Biological											
Faecal Coliforms	**CFU/100mL**	1	10/100^	<1	-	-	-	-	-	-	<1
Biological Oxygen Demand	**mg/L**	2	5	<2	-	-	-	-	-	-	<2

Note: Treated water was not being discharged at Talbingo Reservoir at the time of EPL sampling.
There is no 100th percentile limit for Nitrogen (Total).

* Water Quality Objective values Treated Water reference the predicted values for physical and chemical stressors from the treatment plant as presented in the Main Works EIS.

\- Samples not required

^ 90 Percentile concentration limit/100 Percentile limit

Inflows to STP and CWTP do not directly correspond to outflow at RO as much of the water is reused on site

snowy 2.0

Future Generation
Webuild • Clough • Lane

Snowy Hydro 2.0 Main Works
Monthly EPL Sampling: 01-31 January 2025 - Volumes

Date	EPL 43 *	EPL 50 ^	EPL 44	EPL 45	EPL 47	EPL 48	EPL 49
	Discharge volume (Megalitres)		Discharge volume (Megalitres)				
1/01/2025	-	-	0.40	0.04	0.15	0.05	0.62
2/01/2025	-	-	0.43	0.03	0.15	0.07	0.85
3/01/2025	-	-	0.62	0.04	0.18	0.06	0.62
4/01/2025	-	-	0.47	0.05	0.16	0.07	0.89
5/01/2025	-	-	0.29	0.01	0.18	0.07	0.72
6/01/2025	-	-	0.51	0.04	0.19	0.08	0.52
7/01/2025	-	-	0.27	0.05	0.13	0.06	0.69
8/01/2025	-	-	0.57	0.03	0.32	0.07	0.42
9/01/2025	-	-	0.37	0.05	0.14	0.06	0.85
10/01/2025	-	-	0.72	0.07	0.17	0.07	0.60
11/01/2025	-	-	0.28	0.05	0.20	0.07	0.55
12/01/2025	-	-	0.34	0.05	0.24	0.08	0.54
13/01/2025	-	-	0.54	0.05	0.20	0.09	0.71
14/01/2025	-	-	0.40	0.05	0.34	0.08	0.90
15/01/2025	-	-	0.61	0.08	0.19	0.18	0.86
16/01/2025	-	-	0.49	0.01	0.23	0.18	0.65
17/01/2025	-	-	0.67	0.05	0.19	0.08	0.63
18/01/2025	-	-	0.58	0.04	0.15	0.08	0.72
19/01/2025	-	-	0.65	0.06	0.21	0.07	0.57
20/01/2025	-	-	0.26	0.07	0.23	0.08	0.63
21/01/2025	-	-	0.19	0.06	0.21	0.18	0.75
22/01/2025	-	-	0.17	0.05	0.20	0.01	0.79
23/01/2025	-	-	0.31	0.07	0.28	0.09	0.94
24/01/2025	-	-	0.06	0.04	0.16	0.07	0.72
25/01/2025	-	-	0.27	0.05	0.22	0.08	0.82
26/01/2025	-	-	0.17	0.05	0.22	0.09	0.90
27/01/2025	-	-	0.20	0.04	0.21	0.08	0.70
28/01/2025	-	-	0.19	0.04	0.19	0.18	0.60
29/01/2025	-	-	0.19	0.05	0.23	0.08	0.65
30/01/2025	-	-	0.10	0.04	0.25	0.08	0.61
31/01/2025	-	-	0.28	0.05	0.18	0.08	0.45

- Water not discharged on this day

Note: The EPL discharge volume limit for EPL 43 and 50 is 4.32 megalitres per day. Compliance with this criteria was met during the reporting month.

* The maximum flow rate capacity for Lobs Hole STP/PWTP during the reporting month was 7.18 L/s

^ The maximum flow rate capacity for Tantangara STP/PWTP during the reporting month was 9.84 L/s

-- Water not discharged on this day

Snowy Hydro 2.0 Main Works EPL Sampling: 01 - 28 February 2025

Environmental Protection Licence No:	21266
Licensee:	Snowy Hydro Limited
Licensee address:	PO Box 332, Cooma, NSW 2630
Premises:	Snowy 2.0 Pumped Hydro Power Station Talbingo and Tantangara, Kosciuszko National Park and Rock Forest, Kosciuszko NSW 2642
EPA Public Register:	https://apps.epa.nsw.gov.au/prpoeoapp/Detail.aspx?instid=21266&id=21266&option=licence&searchrange=licence&range=POEO%20licence&prp=no&status=Issued

Monthly water sampling and analysis is performed as part of the Snowy 2.0 Approval Conditions, Environmental Protection Licence No 21266 - Variation 20 December 2024, and the approved Water Management Plan to ensure that works are not impacting on nearby receiving waters.

A map showing the location of each of the EPL named sampling points is provided after the results tables.

Surface Water Results: Surface water results during this period reflect the fluctuating weather conditions recorded throughout the reporting period. Over 100 mm of rainfall was reported across the Project sites throughout the reporting period, which typically results in elevated turbidity and EC concentrations and alterations to pH records. Water reuse for dust suppression is observed to be captured by the numerous basins across the Project.
Reservoir Results: The elevated temperatures and fluctuating water levels in the reservoir water bodies could present as the key drivers for the green discolouration and notable algae decomposition present during sampling. The resulting reduction in DO %, elevated EC and coliform units are possibly reflections of such influence.
Discharge Results: No discharge from either points was recorded during February.
Groundwater Results: Elevated water temperatures were observed throughout Lobs Hole and Tantangara during the reporting period, which was typically accompanied by lower DO%, elevated EC and elevated turbidity readings. Rainfall volumes recorded during the reporting period are anticipated to have influenced the elevated turbidity and EC observations. Elevated turbidity observations are anticipated to reduce following maintenance works soon to be actioned. Additional measures such as groundwater extraction pumps are in place at Tantangara with 4 bore pumps schedulled for installation at Lobs Hole imminently.
Leachate results: Consistent with the function of engineered containment systems, elevated concentrations of analytes are observed within leachate basins throughout the reporting period. These systems are subject to weekly inspections, which are conducted through our digital inspection system.

Snowy Hydro 2.0 Main Works
Monthly EPL Sampling: 01-28 February 2025 - Groundwater

Analyte	Unit	Limit of Reporting	Water Quality Objective Value*	EPL1	EPL2	EPL4	EPL25	EPL56	EPL57	EPL58	EPL68	EPL69	EPL70	EPL72	EPL73
Physiochemical				7/02/25	16/02/25	11/02/25	11/02/25	10/02/25	10/02/25	10/02/25	8/02/25	8/02/25	8/02/25	15/02/25	15/02/25
pH	pH Unit	-	6.5-8	6.77	7.85	8.59	6.58	7.28	7.98	6.17	5.85	6.34	6.79	5.76	5.72
Electrical Conductivity	µS/cm	-	30-350	504	294	1320	506	237	245	1140	30	31	98	71	77
Oxidation Reduction Potential	mV	-	No Water Quality Objective Value	-53	-109	-95	-57	135	119	136	198	189	183	223	230
Temperature	°C	-	No Water Quality Objective Value	20.74	14.62	18.79	19.37	18.84	20.89	20.71	15.92	17.06	16.31	11.54	11.56
Dissolved Oxygen	% saturation	-	No Water Quality Objective Value	17.9	102.3	16.6	29	14.8	15.5	22.1	66.8	60.8	52.9	54.6	91.2
Turbidity	NTU	-	No Water Quality Objective Value	21.9	294	1000	423	19.6	42.1	38.3	190	40.8	1000	65.8	36.3
Laboratory analytes															
TSS	mg/L	5	No Water Quality Objective Value	23	197	1.990	101	6	<5	126	46	104	2.930	24	147
Hardness as CaCO3	mg/L	1	No Water Quality Objective Value	252	104	138	202	116	121	319	2	2	29	13	20
Nutrients															
Ammonia as N	µg/L	10	13	60	200	2,400	120	20	20	120	10	110	30	<10	10
Nitrite + Nitrate as N (NOx)	µg/L	10	13	<10	110	7,050	10	40	610	55,100	1,020	140	610	30	30
Kjeldahl Nitrogen Total	µg/L	100	13	200	1,000	8,000	700	<100	200	9,500	<500	200	<100	<100	<100
Nitrogen (Total)	µg/L	100	13	200	1,100	15,000	700	<100	800	64,600	1,000	300	600	<100	<100
Reactive Phosphorus	µg/L	1	13	<10	70	50	<10	<10	10	<10	30	10	20	30	10
Phosphorus (Total)	µg/L	10	13	110	180	2,000	270	30	100	60	200	60	40	50	100
Inorganics															
Cyanide Total	µg/L	4	4	-	-	-	-	<4	<4	<4	<4	<4	<4	<4	<4
Hydrocarbons															
Oil and Grease	mg/L	1	5	-	-	-	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Metals															
Aluminium (total)	µg/L	5	No Water Quality Objective Value	-	-	-	-	17	80	461	1,550	892	102,000	491	1,750
Aluminium (dissolved)	µg/L	5	27	<5	<5	<5	<5	<5	<5	<5	<5	6	<5	6	<5
Arsenic (total)	µg/L	0.2	No Water Quality Objective Value	-	-	-	-	<0.2	2.5	0.6	0.5	0.3	6.2	-	-
Arsenic (dissolved)	µg/L	0.2	0.8	0.5	1.3	11.2	0.8	<0.2	2.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Chromium (III+VI) (total)	µg/L	0.2	No Water Quality Objective Value	-	-	-	-	<0.2	<0.2	1.3	1.2	1.0	49.3	-	-
Chromium (III+VI) (dissolved)	µg/L	0.2	0.01	<0.2	0.3	0.4	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.2
Copper (total)	µg/L	0.5	No Water Quality Objective Value	-	-	-	-	4.3	6.8	1.4	2.0	2.4	159	-	-
Copper (dissolved)	µg/L	0.5	1	<0.5	4.2	1.0	<0.5	0.9	2.1	<0.5	<0.5	<0.5	<0.5	0.6	<0.5
Iron (total)	µg/L	2	No Water Quality Objective Value	-	-	-	-	13	46	652	1,080	679	83,900	-	-
Iron (dissolved)	µg/L	2	300	1,490	8	3	634	<2	<2	10	<2	5	<2	<2	<2
Lead (total)	µg/L	0.1	No Water Quality Objective Value	-	-	-	-	0.2	0.2	5.2	0.8	0.5	44.7	-	-
Lead (dissolved)	µg/L	0.1	1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.2	<0.1	<0.1	<0.1	<0.1	<0.1
Manganese (total)	µg/L	0.5	No Water Quality Objective Value	-	-	-	-	12.6	80.3	200	32.8	33.1	1,760	-	-
Manganese (dissolved)	µg/L	0.5	1,200	213	99.3	158	884	8.8	58.0	181	4.5	1.7	12.8	4.6	5.2
Nickel (total)	µg/L	0.5	No Water Quality Objective Value	-	-	-	-	<0.5	<0.5	5.6	1.6	1.2	26.1	-	-
Nickel (dissolved)	µg/L	0.5	8	1.6	5.1	3.8	4.7	<0.5	<0.5	4.4	0.6	<0.5	<0.5	0.8	<0.5
Silver (total)	µg/L	0.01	No Water Quality Objective Value	-	-	-	-	<0.01	<0.01	0.07	0.02	<0.01	0.06	-	-
Silver (dissolved)	µg/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
Zinc (total)	µg/L	1	No Water Quality Objective Value	-	-	-	-	8	4	15	8	3	135	-	-
Zinc (dissolved)	µg/L	1	2.4	4	<1	<1	22	4	1	12	4	<1	<1	4	<1

Analyte	EPL80	EPL81	EPL82	EPL83	EPL87	EPL88	EPL89	EPL 90	EPL 91	EPL92	EPL93	EPL94
Physiochemical	3/02/25	3/02/25	3/02/25	3/02/25	3/02/25	3/02/25	3/02/25	10/02/25	10/02/25	10/02/25	10/02/25	10/02/25
pH	7.11	7.15	6.96	6.22	6.28	7.3	6.96	6.04	7.13	6.87	7.15	6.93
Electrical Conductivity	800	852	2710	506	629	809	383	55	243	115	236	167
Oxidation Reduction Potential	-48	-92	-51	46	106	-132	133	154	13	25	-56	3
Temperature	23.55	23.56	20.28	21.26	20.62	22.67	24.4	17.88	19.25	19.75	18.44	18.42
Dissolved Oxygen	14.7	28.3	20.4	33.9	17.5	15.9	24.1	46.9	24.3	85.5	19.3	19.7
Turbidity	92.4	1000	53.4	81.7	1000	1.2	226	238	21.6	739	987	83.1
Laboratory analytes												
TSS	15	469	173	139	2.390	<5	301	292	24	967	717	60
Hardness as CaCO3	314	363	1.220	68	112	92	64	29	115	57	115	96
Nutrients												
Ammonia as N	30	90	100	30	20	190	<10	10	70	20	60	10
Nitrite + Nitrate as N (NOx)	<10	<10	<10	100	2,710	<10	20	90	10	40	<10	<10
Kjeldahl Nitrogen Total	<100	2,300	200	200	1,600	500	<100	100	200	<100	100	100
Nitrogen (Total)	<100	2,300	200	300	4,300	500	<100	200	200	<100	100	100
Reactive Phosphorus	<10	<10	<10	<10	10	<10	<10	10	<10	20	10	<10
Phosphorus (Total)	140	1,120	90	110	490	50	<10	100	70	140	130	70
Inorganics												
Cyanide Total	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Hydrocarbons												
Oil and Grease	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Metals												
Aluminium (total)	-	-	-	-	-	-	-	-	-	-	-	-
Aluminium (dissolved)	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Arsenic (total)	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic (dissolved)	4.0	9.2	13.1	2.7	0.2	12.0	0.3	<0.2	0.4	0.4	5.9	0.6
Chromium (III+VI) (total)	-	-	-	-	-	-	-	-	-	-	-	-
Chromium (III+VI) (dissolved)	<0.2	<0.2	<0.2	<0.2	0.3	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Copper (total)	-	-	-	-	-	-	-	-	-	-	-	-
Copper (dissolved)	<0.5	<0.5	<0.5	2.3	<0.5	<0.5	3.6	<0.5	<0.5	<0.5	<0.5	<0.5
Iron (total)	-	-	-	-	-	-	-	-	-	-	-	-
Iron (dissolved)	<2	<2	2,720	<2	<2	1,220	<2	<2	<2	<2	<2	<2
Lead (total)	-	-	-	-	-	-	-	-	-	-	-	-
Lead (dissolved)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.4	<0.1	<0.1
Manganese (total)	-	-	-	-	-	-	-	-	-	-	-	-
Manganese (dissolved)	186	240	375	62.6	112	177	13.0	10.4	401	109	119	281
Nickel (total)	-	-	-	-	-	-	-	-	-	-	-	-
Nickel (dissolved)	16.7	2.3	1.3	9.8	2.3	2.4	2.2	2.2	0.9	2.6	0.6	0.8
Silver (total)	-	-	-	-	-	-	-	-	-	-	-	-
Silver (dissolved)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Zinc (total)	-	-	-	-	-	-	-	-	-	-	-	-
Zinc (dissolved)	1	1	2	2	<1	<1	<1	11	4	18	<1	5

Analyte	EPL95	EPL96	EPL97	EPL102	EPL103	EPL104	EPL105	EPL113	EPL114	EPL115	EPL116	EPL117
Physiochemical	10/02/25	10/02/25	10/02/25	15/02/25	8/02/25	8/02/25	8/02/25	18/02/25	18/02/25	18/02/25	18/02/25	18/02/25
pH	6.3	7.15	6.78	6.68	6.44	6.33	6.25	5.93	7.34	7.36	6.76	6.14
Electrical Conductivity	840	643	437	407	39	59	152	129	403	356	215	147
Oxidation Reduction Potential	131	232	37	67	180	186	188	219	229	123	206	-8
Temperature	20.52	17.42	20.32	12.53	15.65	18.31	16.76	16.88	20.92	16.36	18.94	19.81
Dissolved Oxygen	21.7	22	18.7	85.6	49.8	40.1	53.7	29.6	13.6	103	82.6	41.2
Turbidity	61.8	236	11.3	40.9	35	17.3	3.9	639	30.3	355	1000	1000
Laboratory analytes												
TSS	137	350	176	10	15	15	<5	440	<5	228	2.720	492
Hardness as CaCO3	292	85	139	168	2	9	50	41	204	177	68	43
Nutrients												
Ammonia as N	<10	<10	50	30	<10	50	20	<10	<10	<10	20	10
Nitrite + Nitrate as N (NOx)	34,600	5,110	280	10	500	240	3,180	10	10	<10	20	<10
Kjeldahl Nitrogen Total	7,200	<500	100	100	<100	200	600	<100	<100	<100	<100	<100
Nitrogen (Total)	41,800	5,100	400	100	500	400	3,800	<100	<100	<100	<100	<100
Reactive Phosphorus	30	<10	10	10	30	10	<10	<10	<10	<10	10	10
Phosphorus (Total)	130	90	150	80	60	40	40	50	40	40	250	300
Inorganics												
Cyanide Total	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Hydrocarbons												
Oil and Grease	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Metals												
Aluminium (total)	-	-	-	-	-	-	-	-	-	-	-	-
Aluminium (dissolved)	<5	<5	<5	<5	<5	<5	<5	20	<5	<5	<5	<5
Arsenic (total)	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic (dissolved)	0.7	<0.2	0.5	0.4	<0.2	<0.2	<0.2	0.4	0.7	0.4	0.5	0.8
Chromium (III+VI) (total)	-	-	-	-	-	-	-	-	-	-	-	-
Chromium (III+VI) (dissolved)	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.4	<0.2	<0.2	<0.2	0.2	<0.2
Copper (total)	-	-	-	-	-	-	-	-	-	-	-	-
Copper (dissolved)	1.0	<0.5	<0.5	<0.5	3.5	0.5	1.2	3.4	<0.5	<0.5	<0.5	<0.5
Iron (total)	-	-	-	-	-	-	-	-	-	-	-	-
Iron (dissolved)	<2	<2	<2	<2	<2	<2	<2	36	<2	<2	<2	2,930
Lead (total)	-	-	-	-	-	-	-	-	-	-	-	-
Lead (dissolved)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.2	0.2	<0.1	<0.1	<0.1	<0.1
Manganese (total)	-	-	-	-	-	-	-	-	-	-	-	-
Manganese (dissolved)	615	3.2	328	130	0.7	7.1	11.7	108	303	359	156	359
Nickel (total)	-	-	-	-	-	-	-	-	-	-	-	-
Nickel (dissolved)	10.3	1.9	2.0	1	<0.5	<0.5	5.7	0.7	0.9	<0.5	1.7	1.6
Silver (total)	-	-	-	-	-	-	-	-	-	-	-	-
Silver (dissolved)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Zinc (total)	-	-	-	-	-	-	-	-	-	-	-	-
Zinc (dissolved)	35	2	30	<1	<1	2	27	5	4	<1	3	<1

* Water Quality Objective values for groundwater refer to the default trigger values for physical and chemical stressors in south-east Australia (upland rivers) for the protection of 99% of aquatic species ANZECC / ARMCANZ (2000), they are not pollutant limits imposed by EPL 21266.

\- Sample not required at this location.

Snowy Hydro 2.0 Main Works

Monthly EPL Sampling: 01-28 February 2025 - Talbingo and Tantangara Reservoir

Analyte	Unit	Limit of Reporting	Water Quality Objective Value*	EPL10	EPL11	EPL28	EPL29	EPL32	EPL38	EPL39	EPL40	EPL46	EPL51	EPL107	EPL108	EPL109
Field				26/2/25	26/2/25	9/2/25	9/2/25	9/2/25	1/2/25	1/2/25	9/2/25	9/2/25	9/2/25	26/2/25	26/2/25	26/2/25
pH	pH Unit	-	6.5-8	8.12	7.93	8.07	8.16	8.1	8.95	6.66	7.56	8.21	8.18	7.64	7.69	7.89
Electrical Conductivity	µS/cm	-	20-30	78	56	28	26	26	28	30	30.9	27	27	34	32	31
Oxidation Reduction Potential	mV	-	No Water Quality Objective Value	205	209	225	227	230	101	233	168	220	86	221	204	151
Temperature	°C	-	No Water Quality Objective Value	23.52	23.15	21.2	22.5	22.4	26.22	22.65	19.9	22.61	22.65	22.16	21.74	21.52
Dissolved Oxygen	% saturation	-	90-110	75.4	69.2	56.9	58.3	65.2	78.4	91.5	88.4	62.9	57.5	69	82.8	80
Turbidity	NTU	-	1-20	0.5	0	13	9.3	9	10.3	18.7	5.16	8	9.1	0	0	23.5
Laboratory analytes																
Total suspended solids	mg/L	5	No Water Quality Objective Value	<5	<5	8	<5	<5	6	8	<5	<5	<5	<5	<5	<5
Hardness as $CaCO_3$ (filtered)	mg/L	1	No Water Quality Objective Value	43	31	9	9	9	5	7	9	9	9	17	17	14
Nutrients																
Ammonia as N	µg/L	10	10	40	130	<10	20	<10	<10	<10	20	<10	40	60	20	40
Nitrite + Nitrate as N (NOx)	µg/L	10	10	30	<10	20	<10	<10	<10	20	<10	20	<10	<10	<10	20
Kjeldahl Nitrogen Total	µg/L	100	No Water Quality Objective Value	300	400	300	400	400	300	200	300	300	400	200	200	200
Nitrogen (Total)	µg/L	100	350	300	400	300	400	400	300	200	300	300	400	200	200	200
Reactive Phosphorus	µg/L	1	5	<10	<10	10	10	10	<10	<10	<10	50	<10	<10	<10	<10
Phosphorus (Total)	µg/L	10	10	30	40	40	40	40	30	20	50	40	70	<10	10	<10
Inorganics																
Cyanide Total	µg/L	4	7	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Hydrocarbons																
Oil and Grease	mg/L	1	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	10	<10
Metals																
Aluminium (dissolved)	µg/L	5	55	<5	<5	26	32	30	24	37	25	30	31	<5	<5	<5
Arsenic (dissolved)	µg/L	0.2	13	0.4	0.3	0.4	0.3	0.3	0.3	0.2	0.2	0.3	0.3	0.2	<0.2	<0.2
Chromium (III+VI) (dissolved)	µg/L	0.2	1	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Copper (dissolved)	µg/L	0.5	14	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Iron (dissolved)	µg/L	2	300	26	12	388	246	247	186	141	104	252	251	6	4	4
Lead (dissolved)	µg/L	0.1	3.4	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Manganese (dissolved)	µg/L	0.5	1,900	<0.5	<0.5	1.7	3.4	3.3	2.7	8.8	4.4	3.0	3.2	<0.5	<0.5	<0.5
Nickel (dissolved)	µg/L	0.5	11	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Silver (dissolved)	µg/L	0.01	0.05	<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
Zinc (dissolved)	µg/L	1	8	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Biological																
Faecal Coliforms	CFU/100mL	1	10/100^	1,900	68	6000	-	-	-	-	-	-	3300	-	-	-
Biochemical Oxygen Demand	mg/L	2	1/5^	3	3	5	-	-	-	-	-	-	6	-	-	-

* Water Quality Objective values for Talbingo and Tantangara Reservoir refer to the default trigger values for physical and chemical stressors in south-east Australia (fresh lakes and reservoirs) for the protection of 95% of aquatic species ANZECC / ARMCANZ (2000), they are not pollutant limits imposed by EPL 21266.

** Algal blooms can present as feacal coliforms

^ 90th percentile concentration limits / 100 percentile concentration limits

\- Sample not required at this location.

Snowy Hydro 2.0 Main Works

Monthly EPL Sampling: 01-28 February 2025 - Surface Water

Analyte	Unit	Limit of Reporting	Water Quality Objective Value*	EPL5	EPL6	EPL8	EPL9	EPL12	EPL14	EPL15	EPL16	EPL24	EPL26	EPL27	EPL30	EPL31	EPL33	EPL34	EPL35	EPL36	EPL37	EPL52	EPL53	EPL54	EPL55	EPL67	EPL71	EPL84	EPL85	EPL86	EPL98	EPL99	EPL100	EPL101	EPL106	EPL110	EPL118	EPL120	EPL122
Field				2/02/25	11/02/25	2/02/25	2/02/25	2/02/25	2/02/25	2/02/25	2/02/25	19/02/25	7/02/25	7/02/25	1/02/25	1/02/25	1/02/25	1/02/25	1/02/25	4/02/25	4/02/25	3/02/25	Dry	Dry	17/2/25	Dry	Dry	15/02/25	15/02/25	15/02/25	Dry	15/02/25	15/02/25	15/2/25	8/2/25	18/2/25	Dry	Dry	19/02/25
pH	-	-	6.5-8	7.45	8.46	8.38	8.22	7.07	7.94	8.27	8.53	7.17	8.1	8.31	7.89	7.66	7.36	7.69	7.57	7.73	7.89	9.18	Dry	Dry	7.01	Dry	Dry	8.65	9.24	8.45	Dry	8.98	8.44	8.86	8.67	7.54	Dry	Dry	7.79
Electrical Conductivity	µS/cm	-	30-350	163	116	169	155	163	163	163	165	607	77.4	75.2	84.3	86.4	86.7	98.1	94	68.6	71.9	78.9	Dry	Dry	1220	Dry	Dry	441	461	899	Dry	265	587	362	1270	67	Dry	Dry	778
Oxidation Reduction Potential	mV	-	No Water Quality Objective Value	267	38	206	212	288	232	213	199	178	161	148	212	219	241	222	225	115	161	178	Dry	Dry	142	Dry	Dry	164	143	-28	Dry	47	89	65	95	140	Dry	Dry	173
Temperature	°C	-	No Water Quality Objective Value	19.83	22.46	21.2	21.23	19.61	20.25	20.92	22.62	14.66	22.71	20.38	16.93	17.42	20.73	16.62	16.42	22.57	24.93	24.91	Dry	Dry	19.6	Dry	Dry	20.64	19.7	21.13	Dry	16.14	16.96	16.06	25.78	13.87	Dry	Dry	14.06
Dissolved Oxygen	% saturation	-	90-110	79.9	67.7	67.8	79.3	74.3	75.3	66.5	77.4	75.5	77.4	75.2	84.3	86.4	86.7	98.1	94	68.6	71.9	78.9	Dry	Dry	68.5	Dry	Dry	74.4	52.5	74.8	Dry	66.6	67.5	66.9	74.3	95.8	Dry	Dry	64.1
Turbidity	NTU	-	2-25	3.9	68.4	0.3	4.2	3.1	2.4	1.3	0.4	33.6	12	5.3	0	0	10.6	0	0	14	23.8	16	Dry	Dry	12.3	Dry	Dry	1000	1000	507	Dry	41.3	81.5	206	45.6	44	Dry	Dry	206
Laboratory analytes																																							
TSS	mg/L	5	No Water Quality Objective Value	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	6	<5	<5	<5	5	19	Dry	Dry	<5	Dry	Dry	744	804	176	Dry	25	27	58	<5	<5	Dry	Dry	198
Hardness as CaCO3	mg/L	1	No Water Quality Objective Value	63	45	85	72	68	68	71	80	156	18	12	13	9	9	16	16	21	24	376	Dry	Dry	360	Dry	Dry	41	40	148	Dry	85	226	125	352	19	Dry	Dry	184
Nutrients																																							
Ammonia as N	µg/L	10	13	30	<10	70	<10	20	40	10	20	20	30	10	<10	40	<10	30	<10	<10	20	50	Dry	Dry	20	Dry	Dry	<10	<10	<10	Dry	680	20	100	60	<10	Dry	Dry	20
Nitrite + Nitrate as N (NOx)	µg/L	10	15	10	20	80	<10	10	30	10	<10	23,600	10	30	<10	<10	<10	<10	<10	10	<10	24,900	Dry	Dry	61,800	Dry	Dry	1,000	2,030	5,940	Dry	4,890	19,600	15,800	40,000	40	Dry	Dry	28,900
Kjeldahl Nitrogen Total	µg/L	100	No Water Quality Objective Value	300	200	300	200	200	200	200	200	2,900	100	<100	200	200	400	300	300	200	400	10,600	Dry	Dry	2,400	Dry	Dry	1,600	1,400	1,100	Dry	1,400	900	500	2,800	<100	Dry	Dry	3,200
Nitrogen (Total)	µg/L	100	250	300	200	400	200	200	200	200	200	26,500	100	<100	200	200	400	300	300	200	400	35,500	Dry	Dry	64,200	Dry	Dry	2,600	3,400	7,000	Dry	6,300	20,500	16,300	42,800	<100	Dry	Dry	32,100
Reactive Phosphorus	µg/L	1	15	<10	10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	Dry	Dry	<10	Dry	Dry	10	<10	20	Dry	<10	<10	10	10	<10	Dry	Dry	<10
Phosphorus (Total)	µg/L	10	20	20	20	50	20	40	70	30	20	10	50	30	10	<10	30	20	40	60	50	30	Dry	Dry	60	Dry	Dry	540	560	260	Dry	30	50	80	20	10	Dry	Dry	160
Inorganics																																							
Cyanide Total	µg/L	4	4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	Dry	Dry	<4	Dry	Dry	<4	<4	<4	Dry	<4	<4	<4	<4	<4	Dry	Dry	<4
Hydrocarbons																																							
Oil and Grease	mg/L	1	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	Dry	Dry	<1.0	Dry	Dry	<1.0	<1.0	<1.0	Dry	<1.0	<1.0	<1.0	<1.0	<1.0	Dry	Dry	<1.0
Metals																																							
Aluminium (total)	µg/L	5	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13	Dry	Dry	71	Dry	-	-	-	-	-	-	-	-	-	-	-	-
Aluminium (dissolved)	µg/L	5	27	<5	17	<5	<5	<5	<5	<5	<5	6	15	8	12	14	27	22	22	19	30	<5	Dry	Dry	<5	Dry	Dry	13	9	<5	Dry	19	20	45	7	12	Dry	Dry	<5
Arsenic (total)	µg/L	0.2	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.9	Dry	Dry	0.8	Dry	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic (dissolved)	µg/L	0.2	0.8	0.6	0.4	0.6	0.6	0.6	0.6	0.6	0.6	0.6	<0.2	<0.2	<0.2	<0.2	0.3	0.2	0.3	0.5	0.5	6.8	Dry	Dry	0.8	Dry	Dry	7.7	17.2	6.6	Dry	1.2	2.6	1.9	2.4	0.8	Dry	Dry	0.3
Chromium (III+VI) (total)	µg/L	0.2	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.5	Dry	Dry	0.6	Dry	-	-	-	-	-	-	-	-	-	-	-	-
Chromium (III+VI) (dissolved)	µg/L	0.2	0.01	0.3	<0.2	<0.2	<0.2	0.2	<0.2	<0.2	<0.2	0.4	0.3	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	1.4	Dry	Dry	0.5	Dry	Dry	7.0	13.0	15.2	Dry	18.3	8.4	13.8	2.1	<0.2	Dry	Dry	<0.2
Copper (total)	µg/L	0.5	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.8	Dry	Dry	<0.5	Dry	-	-	-	-	-	-	-	-	-	-	-	-
Copper (dissolved)	µg/L	0.5	1	<0.5	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	Dry	Dry	<0.5	Dry	Dry	1.7	1.1	2.0	Dry	<0.5	<0.5	0.6	<0.5	<0.5	Dry	Dry	<0.5
Iron (total)	µg/L	2	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14	Dry	Dry	68	Dry	-	-	-	-	-	-	-	-	-	-	-	-
Iron (dissolved)	µg/L	2	300	4	43	7	8	4	5	6	7	14	74	27	45	33	242	165	173	353	371	<2	Dry	Dry	<2	Dry	Dry	42	7	6	Dry	<2	<2	<2	<2	12	Dry	Dry	4
Lead (total)	µg/L	0.1	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	Dry	Dry	0.1	Dry	-	-	-	-	-	-	-	-	-	-	-	-
Lead (dissolved)	µg/L	0.1	1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	Dry	Dry	<0.1	Dry	Dry	<0.1	<0.1	<0.1	Dry	<0.1	<0.1	<0.1	<0.1	<0.1	Dry	Dry	<0.1
Manganese (total)	µg/L	0.5	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.2	Dry	Dry	9.6	Dry	-	-	-	-	-	-	-	-	-	-	-	-
Manganese (dissolved)	µg/L	0.5	1,200	1.2	3.8	1.7	3.0	1.2	1.4	1.9	2.2	108	12.1	2.4	3.5	2.1	2.3	8.5	6.2	68.0	1.5	0.7	Dry	Dry	7.7	Dry	Dry	0.6	<0.5	14.4	Dry	<0.5	14.0	7.2	<0.5	<0.5	Dry	Dry	12.4
Nickel (total)	µg/L	0.5	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	Dry	Dry	1.8	Dry	-	-	-	-	-	-	-	-	-	-	-	-
Nickel (dissolved)	µg/L	0.5	8	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.9	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	Dry	Dry	1.1	Dry	Dry	0.6	<0.5	0.6	Dry	<0.5	0.8	<0.5	1.4	<0.5	Dry	Dry	1.3
Silver (total)	µg/L	0.01	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.01	Dry	Dry	<0.01	Dry	-	-	-	-	-	-	-	-	-	-	-	-
Silver (dissolved)	µg/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	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	Dry	Dry	<0.01	Dry	Dry	<0.01	<0.01	<0.01	Dry	<0.01	<0.01	<0.01	<0.01	<0.01	Dry	Dry	<0.01
Zinc (total)	µg/L	1	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<1	Dry	Dry	8	Dry	-	-	-	-	-	-	-	-	-	-	-	-
Zinc (dissolved)	µg/L	1	2.4	<1	<1	<1	<1	<1	<1	<1	<1	2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	Dry	Dry	4	Dry	Dry	<1	<1	<1	Dry	<1	<1	<1	<1	28	Dry	Dry	<1

* Water Quality Objective values for surface water refer to the default trigger values for physical and chemical stressors in south-east Australia (upland rivers) for the protection of 99% of aquatic species ANZECC / ARMCANZ (2018), they are not pollutant limits imposed by EPL 21266.

\- Samples not required

Snowy Hydro 2.0 Main Works

Monthly EPL Sampling: 01-28 February 2025 - Treated Water

Analyte	Unit	Limit of Reporting	Water Quality Objective Value*	EPL 41	EPL 43	EPL 44	EPL 45	EPL 47	EPL 48	EPL 49	EPL 50
Flow Rate				2/2/2025							26/2/2025
Inflow[#]	ML/day	-	-	-	0.0000	0.1994	0.0523	0.2074	0.0887	0.6811	-
Outflow[#]	ML/day	-	4.32 (EPL 43 / 50)	-	-	-	-	-	-	-	-
Field											
pH	pH Unit	-	6.5-8.5	8.32	-	-	-	-	-	-	5.14
Electrical Conductivity	µS/cm	-	700 (EPL 41) / 200 (EPL 50)	2210	-	-	-	-	-	-	10.8
Oxidation Reduction Potential	mV	-	No Water Quality Objective Value	203	-	-	-	-	-	-	224.5
Temperature	°C	-	15	26.69	-	-	-	-	-	-	19.6
Dissolved Oxygen	% saturation	-	No Water Quality Objective Value	66.3	-	-	-	-	-	-	85.7
Turbidity	NTU	-	<25	9.9	-	-	-	-	-	-	0.8
Laboratory analytes											
Total suspended solids	mg/L	5	5/10	<5	-	-	-	-	-	-	<5
Hardness as $CaCO_3$ (filtered)	mg/L	1	No Water Quality Objective Value	106	-	-	-	-	-	-	<1
Nutrients											
Ammonia as N	µg/L	10	200/2000^	2,110	-	-	-	-	-	-	30
Nitrite + Nitrate as N (NOx)	µg/L	10	10	18,300	-	-	-	-	-	-	20
Kjeldahl Nitrogen Total	µg/L	100	No Water Quality Objective Value	3,300	-	-	-	-	-	-	200
Nitrogen (Total)	µg/L	100	350/-^	21,600	-	-	-	-	-	-	200
Reactive Phosphorus	µg/L	1	No Water Quality Objective Value	70	-	-	-	-	-	-	<10
Phosphorus (Total)	µg/L	10	100/300^	80	-	-	-	-	-	-	40
Inorganics											
Cyanide Total	µg/L	4	No Water Quality Objective Value	11	-	-	-	-	-	-	<4
Hydrocarbons											
Oil and Grease	mg/L	1	2/5^	<1.0	-	-	-	-	-	-	<1.0
Metals											
Aluminium (dissolved)	µg/L	5	55	16	-	-	-	-	-	-	<5
Arsenic (dissolved)	µg/L	0.2	13	3.0	-	-	-	-	-	-	<0.2
Chromium (III+VI) (dissolved)	µg/L	0.2	1	13.3	-	-	-	-	-	-	<0.2
Copper (dissolved)	µg/L	0.5	14	<0.5	-	-	-	-	-	-	<0.5
Iron (dissolved)	µg/L	2	300	<2	-	-	-	-	-	-	<2
Lead (dissolved)	µg/L	0.1	3.4	<0.1	-	-	-	-	-	-	<0.1
Manganese (dissolved)	µg/L	0.5	1,900	2.7	-	-	-	-	-	-	<0.5
Nickel (dissolved)	µg/L	0.5	11	<0.5	-	-	-	-	-	-	<0.5
Silver (dissolved)	µg/L	0.01	0.05	<0.01	-	-	-	-	-	-	<0.01
Zinc (dissolved)	µg/L	1	8	2	-	-	-	-	-	-	<1
Biological											
Faecal Coliforms	CFU/100mL	1	10/100^	<1	-	-	-	-	-	-	<1
Biological Oxygen Demand	mg/L	2	5	<2	-	-	-	-	-	-	<2

Note: There is no 100th percentile limit for Nitrogen (Total).

* Water Quality Objective values Treated Water reference the predicted values for physical and chemical stressors from the treatment plant as presented in the Main Works EIS.

\- Samples not required

^ 90 Percentile concentration limit/100 Percentile limit

[#] Inflows to STP and CWTP do not directly correspond to outflow at RO as much of the water is reused on site

Snowy Hydro 2.0 Main Works
Monthly EPL Sampling: 01-28 February 2025 - Treated Water

Date	EPL 43 *	EPL 50 ^	EPL 44	EPL 45	EPL 47	EPL 48	EPL 49
	Discharge volume (Megalitres)		Discharge volume (Megalitres)				
2/1/2025	-	-	0.18	0.04	0.33	0.18	0.50
2/2/2025	-	-	0.14	0.05	0.28	0.08	0.77
2/3/2025	-	-	0.17	0.04	0.13	0.08	0.84
2/4/2025	-	-	0.19	0.05	0.24	0.07	0.76
2/5/2025	-	-	0.10	0.04	0.21	0.07	0.65
2/6/2025	-	-	0.19	0.02	0.10	0.08	0.77
2/7/2025	-	-	0.22	0.09	0.32	0.08	0.71
2/8/2025	-	-	0.19	0.05	0.25	0.19	0.79
2/9/2025	-	-	0.21	0.03	0.20	0.07	0.87
2/10/2025	-	-	0.24	0.09	0.24	0.09	0.65
2/11/2025	-	-	0.19	0.05	0.24	0.09	0.76
2/12/2025	-	-	0.19	0.05	0.22	0.09	0.66
2/13/2025	-	-	0.24	0.05	0.26	0.08	0.86
2/14/2025	-	-	0.14	0.06	0.17	0.09	0.86
2/15/2025	-	-	0.20	0.05	0.21	0.19	0.68
2/16/2025	-	-	0.20	0.06	0.23	0.07	0.48
2/17/2025	-	-	0.30	0.07	0.21	0.01	0.95
2/18/2025	-	-	0.30	0.06	0.23	0.08	0.87
2/19/2025	-	-	0.33	0.06	0.21	0.10	0.77
2/20/2025	-	-	0.38	0.06	0.26	0.09	0.80
2/21/2025	-	-	0.17	0.05	0.22	0.09	0.59
2/22/2025	-	-	0.11	0.05	0.23	0.04	0.40
2/23/2025	-	-	0.32	0.07	0.21	0.09	0.50
2/24/2025	-	-	0.27	0.06	0.18	0.10	0.34
2/25/2025	-	-	0.30	0.08	0.19	0.03	0.83
2/26/2025	-	-	0.18	0.07	0.17	0.13	0.95
2/27/2025	-	-	0.17	0.04	0.23	0.07	0.99
2/28/2025	-	-	0.18	0.10	0.27	0.22	0.84

\- Water not discharged on this day

Note: The EPL discharge volume limit for EPL 43 and 50 is 4.32 megalitres per day. Compliance with this criteria was met during the reporting month.

* The maximum flow rate capacity for Lobs Hole STP/PWTP during the reporting month was 4.40 L/s

^ The maximum flow rate capacity for Tantangara STP/PWTP during the reporting month was 11.34 L/s

-- Water not discharged on this day

Snowy Hydro 2.0 Main Works EPL Sampling: 01 - 31 March 2025

Environmental Protection Licence No:	21266
Licensee:	Snowy Hydro Limited
Licensee address:	PO Box 332, Cooma, NSW 2630
Premises:	Snowy 2.0 Pumped Hydro Power Station Talbingo and Tantangara, Kosciuszko National Park and Rock Forest, Kosciuszko NSW 2642
EPA Public Register:	https://apps.epa.nsw.gov.au/prpoeoapp/Detail.aspx?instid=21266&id=21266&option=licence&searchrange=licence&range=POEO%20licence&prp=no&status=Issued

Monthly water sampling and analysis is performed as part of the Snowy 2.0 Approval Conditions, Environmental Protection Licence No 21266 - Variation 20 December 2024, and the approved Water Management Plan to ensure that works are not impacting on nearby receiving waters.

A map showing the location of each of the EPL named sampling points is provided after the results tables.

Surface Water Results: Surface water results revealed EPL24 to show elevated concentrations in Electrical conductivity, Total Nitrogen, Nitrates, and Manganese. These levels fall within range of historical data, though we have seen an increased trend of these analytes, it is important to note that this location is sampled weekly when water levels permit. It has been observed that some EPL locations on the Yarrongabily river, Wallaces Creek, Nungar Creek, Eucumbene River, Kelly's Creek, and the Murrumbidgee River have shown decreased levels of Disolved Oxygen which could be attributed to the lower levels of flow that had also been recorded historically when similiar conditions were present. EPL 52, EPL EPL84, EPL85, and EPL86 are all showing high levels on Total Nitrogen, Electrical Conductivity, and pH. These locations are sediment basins and the results lie within our expectations for the results we received. EPL100, EPL101 are basins that have been well managed and have been dewatered promptly after rain events leaving them too low to obtain a sample.

Reservoir Results: Talbingo and Tantangara reserviour had low water levels, higher temperatures, and both had evidence of algae blooms with green colours and physical growths on the surface. These conditions may have contributed to the results recorded this month as there were exceedances in Electrical conductivity, as well as faecal coliforms. There were slight exceedances recorded for the Total Nitrogen and Disolved oxygen were recorded at levels below our Water Quality Objectives for some of the locations.

Discharge Results: Water was discharged on the 01/03/2025 following suficient NATA accredited laboratory results. The conductivity of EPL41 and EPL50 are below Water Quality Objectives, Nitrates are slightly above WQO's, though feocal coliforms are within the guideline values.

Groundwater Results: The groundwater EPL points recorded at Tantangara (Emplacement area) and Lobs Hole (Lick Hole Gully, Main Yard, GF01) areas have recorded exceedances in Electrical conductivity. These locations are situated near spoil emplacement areas. EPL81, EPL82, and EPL88 are also showing exceedances in Arsenic (flitered), Iron (filtered), and Nitrogen Total. Bore maintenance is currently on going within nominated locations. The results showing for EPL116, and EPL117 in phospurus are extremely high in accordance to our WQO's, these spikes do not fall within histrocial records, and it is to note these locations are down gradients of the Spoil emplacement area. These EPL points are downgradient of the spoil emplacement areas, located near the reservoir. This is currently under investigation.

Leachate results: Results for lecachate basins show exceedances in pH, EC, DO, and turbidty, as well as the results recieved for the comprehensive samples. These results are within expectations. The Marica EPL locations were consistently managed at levels that prohibit sample collection.

Snowy Hydro 2.0 Main Works

Monthly EPL Sampling: 01-31 March 2025 - Groundwater

Analyte	Unit	Limit of Reporting	Water Quality Objective Value*	EPL56	EPL57	EPL58	EPL68	EPL69	EPL70	EPL72	EPL73	EPL80	EPL81	EPL82	EPL83	EPL87	EPL88	EPL89	EPL 90	EPL 91	EPL92	EPL93	EPL94	EPL95	EPL96	EPL97	EPL102	EPL103	EPL104	EPL105	EPL113	EPL114	EPL115	EPL116	EPL117
Physiochemical				4/03/25	4/03/25	4/03/25	15/03/25	15/03/25	15/03/25	18/03/25	-	19/03/25	19/03/25	19/03/25	19/03/25	19/03/25	19/03/25	19/03/25	19/03/25	19/03/25	4/03/25	4/03/25	4/03/25	4/03/25	4/03/25	4/03/25	4/03/25	-	31/03/25	31/03/25	31/03/25	26/03/25	26/03/25	26/03/25	26/03/25	26/03/25
pH	pH Unit	-	6.5-9	7.64	7.17	6.07	5.99	6.3	6.49	5.89	-	6.45	6.68	7.08	6.27	6.4	6.79	6.86	5.84	6.42	5.92	6.41	6.39	6.13	7.06	6.39	-	6.38	6.01	5.78	7.39	7.55	7.5	7.47	7.41
Electrical Conductivity	µS/cm	-	30-350	206	197	912	22	22	121	53	-	707	809	2850	757	797	900	300	53	193	91	207	142	592	1420	377	-	46	60	162	127	327	298	187	121
Oxidation Reduction Potential	mV	-	No Water Quality Objective Value	197	247	199	228	231	217	204	-	76	-28	8	59	238	-62	230	252	16	200	17	80	202	163	109	-	222	238	243	201	-35	-21	228	-17
Temperature	°C	-	No Water Quality Objective Value	16.12	16.01	20.63	14.56	15.55	18.1	12.39	-	13.97	15.04	13.76	16.29	16.46	15.36	15.23	18.9	18.39	16.84	16.93	16.67	21.79	18.5	19.48	-	14.7	15.98	16.85	14.73	16.66	15.88	15.23	15.66
Dissolved Oxygen	% saturation	-	No Water Quality Objective Value	15.8	19.6	17.5	55.2	45.3	45.4	80	-	22.3	106.3	18.7	49	124.7	75.9	39.1	47	17.4	35.4	10	15.7	18.2	50.7	53	-	41.7	43.1	46.5	126.5	88.8	97.5	107.7	108.4
Turbidity	NTU	-	No Water Quality Objective Value	54.2	62.6	127	2.9	24.1	142	69	-	72.3	209	29.1	168	1000	14.1	6.86	96	7.4	564	160	50.4	79.1	1000	7.4	-	2.8	14.4	15.6	566	327	172	1000	1000
Laboratory analytes																																			
TSS	mg/L	5	No Water Quality Objective Value	16	9	204	<5	23	30	<5	-	21	349	218	62	1,970	6	20	171	21	184	3,020	86	190	2,100	41	-	<5	<5	15	153	6	2,460	10,200	6,410
Hardness as CaCO3	mg/L	1	No Water Quality Objective Value	106	105	391	<1	9	30	11	-	308	431	1,100	120	181	137	66	16	102	42	103	74	157	559	124	-	2	9	54	48	201	172	85	39
Nutrients																																			
Ammonia as N	µg/L	10	13	10	40	20	10	10	<10	<10	-	10	110	100	10	30	230	10	10	60	20	60	30	10	30	<10	-	20	80	30	10	50	30	100	20
Nitrite + Nitrate as N (NOx)	µg/L	10	15	50	960	44,400	840	160	930	20	-	<10	<10	<10	10	9,630	<10	<10	280	<10	40	<10	<10	29,500	54,100	140	-	690	280	7,510	60	<10	<10	60	<10
Kjeldahl Nitrogen Total	µg/L	100	No Water Quality Objective Value	<100	100	5,950	<100	<100	<100	<100	-	200	300	400	200	3,400	400	100	<100	100	<100	<100	200	4,400	4,700	<100	-	<100	200	1,300	<1,000	<100	<1,000	<10,000	<5,000
Nitrogen (Total)	µg/L	100	250	<100	1,100	50,300	800	200	900	<100	-	200	300	400	300	13,000	400	100	300	100	<100	<100	200	33,900	58,800	100	-	700	500	8,800	<1,000	<100	<1,000	<10,000	<5,000
Reactive Phosphorus	µg/L	1	15	<10	10	<10	<10	<10	20	20	-	<10	<10	<10	<10	<10	20	<10	<10	10	<10	20	<10	<10	<10	<10	-	<10	<10	<10	<10	<10	<10	20	<10
Phosphorus (Total)	µg/L	10	20	<10	60	190	60	50	100	40	-	670	250	50	90	1,310	130	50	80	40	70	400	20	110	1,060	110	-	40	50	60	<100	30	<100	6,540	6,410
Inorganics																																			
Cyanide Total	µg/L	4	4	<4	<4	<4	<4	<4	<4	<4	-	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	-	<4	<4	<4	<4	<4	<4	<4	<4
Hydrocarbons																																			
Oil and Grease	mg/L	1	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Metals				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aluminium (total)	µg/L	5	No Water Quality Objective Value	23	1,560	5,320	341	1,440	3,360	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aluminium (dissolved)	µg/L	5	27	<5	<5	<5	<5	6	<5	7	-	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	-	<5	<5	<5	<5	<5	<5	<5	<5
Arsenic (total)	µg/L	0.2	No Water Quality Objective Value	<0.2	3.6	10.0	<0.2	0.5	0.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic (dissolved)	µg/L	0.2	0.8	<0.2	2.5	<0.2	<0.2	<0.2	<0.2	<0.2	-	2.0	25.4	25.2	2.6	0.2	35.1	0.3	<0.2	1.4	0.4	2.8	1.1	0.5	0.2	0.2	-	<0.2	<0.2	<0.2	0.3	<0.2	0.3	1.0	0.9
Chromium (III+VI) (total)	µg/L	0.2	No Water Quality Objective Value	<0.2	3.8	18.1	0.4	1.5	1.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium (III+VI) (dissolved)	µg/L	0.2	0.05	<0.2	<0.2	0.2	<0.2	<0.2	<0.2	<0.2	-	-	<0.2	<0.2	<0.2	0.6	0.3	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.6	<0.2	-	<0.2	0.2	0.4	<0.2	<0.2	<0.2	<0.2	<0.2
Copper (total)	µg/L	0.5	No Water Quality Objective Value	5.2	45.1	9.5	<0.5	4.1	29.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper (dissolved)	µg/L	0.5	1	2.2	2.0	<0.5	<0.5	<0.5	4.0	1.0	-	<0.5	<0.5	<0.5	2.4	<0.5	<0.5	1.8	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	0.6	<0.5	-	16.7	<0.5	<0.5	2.0	<0.5	<0.5	<0.5	<0.5
Iron (total)	µg/L	2	No Water Quality Objective Value	18	1,630	10,700	173	979	3,580	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron (dissolved)	µg/L	2	300	<2	<2	<2	<2	9	<2	<2	-	<2	1,930	2,070	4	<2	822	2	<2	386	<2	<2	<2	<2	<2	<2	-	<2	<2	<2	61	<2	<2	<2	337
Lead (total)	µg/L	0.1	3	0.1	5.2	92.0	0.1	0.8	1.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead (dissolved)	µg/L	0.1	1	<0.1	<0.1	0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.3	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Manganese (total)	µg/L	0.5	No Water Quality Objective Value	14.6	212	329	3.8	24.6	53.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese (dissolved)	µg/L	0.5	1,200	10.6	61.2	37.3	1.4	2.1	2.7	4.6	-	174	211	362	48.4	54.4	151	3.1	5.9	567	45.0	155	352	550	0.8	415	-	0.8	3.3	10.0	92.3	356	467	134	391
Nickel (total)	µg/L	0.5	No Water Quality Objective Value	<0.5	5.4	19.8	0.6	1.2	1.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel (dissolved)	µg/L	0.5	8	<0.5	<0.5	3.4	<0.5	<0.5	<0.5	0.9	-	14.1	2.3	0.9	6.3	1.7	2.6	1.3	2.2	0.8	1.4	1.2	1.1	8.1	1.2	2.7	-	<0.5	<0.5	4.0	<0.5	43.1	<0.5	<0.5	1.9
Silver (total)	µg/L	0.01	No Water Quality Objective Value	<0.01	<0.01	0.06	<0.01	0.04	<0.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver (dissolved)	µg/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	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Zinc (total)	µg/L	1	No Water Quality Objective Value	6	14	45	4	6	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc (dissolved)	µg/L	1	2.4	1	<1	4	2	2	<1	4	-	<3	2	1	2	<1	<1	<1	8	<1	6	<1	4	19	<3	38	-	<1	<3	51	3	<3	<1	3	<1

* Water Quality Objective values for groundwater refer to the default trigger values for physical and chemical stressors in south-east Australia (upland rivers) for the protection of 99% of aquatic species ANZECC / ARMCANZ (2000), they are not pollutant limits imposed by EPL 21266.

- Sample not required at this location.

Snowy Hydro 2.0 Main Works

Monthly EPL Sampling: 01-31 March 2025 - Talbingo and Tantangara Reservoir

Analyte	Unit	Limit of Reporting	Water Quality Objective Value*	EPL10	EPL11	EPL28	EPL29	EPL32	EPL38	EPL39	EPL40	EPL46	EPL51	EPL107	EPL108	EPL109
Field				2/3/25	2/3/25	26/3/25	26/3/25	26/3/25	1/3/25	9/3/25	9/3/25	26/3/25	26/3/25	16/3/25	16/3/25	16/3/25
pH	pH Unit	-	6.5-8	8.1	8.01	7.82	8.42	8.18	7.94	6.34	8.95	8.5	8.43	7.79	7.72	7.77
Electrical Conductivity	µS/cm	-	20-30	102	63	27	26	26	36	29.6	31.7	26	26	40	38	36
Oxidation Reduction Potential	mV	-	No Water Quality Objective Value	191	192	130	140	14	174	664.1	625.5	139	140	193	190	180
Temperature	°C	-	No Water Quality Objective Value	22.97	22.84	18.43	20.14	20.19	22.63	17.6	16.5	20.29	20.21	22.01	21.97	21.7
Dissolved Oxygen	% saturation	-	90-110	64.8	70.6	93.2	95.5	91.5	54.1	62.1	75.3	97.1	93.8	72.6	67.8	75.6
Turbidity	NTU	-	1-20	1.61	1.15	7.3	13.4	12.9	8.8	7.17	2.63	12.5	10.7	0.76	0.85	0.66
Laboratory analytes																
Total suspended solids	mg/L	5	No Water Quality Objective Value	<5	<5	<5	<5	<5	<5	<5	<5	<5	5	<5	<5	<5
Hardness as $CaCO_3$ (filtered)	mg/L	1	No Water Quality Objective Value	46	28	9	9	9	9	13	16	9	9	14	14	14
Nutrients																
Ammonia as N	µg/L	10	10	<10	<10	70	<10	<10	20	30	140	90	<10	<10	40	20
Nitrite + Nitrate as N (NOx)	µg/L	10	10	<10	<10	10	<10	<10	<10	290	20	10	<10	<10	10	<10
Kjeldahl Nitrogen Total	µg/L	100	No Water Quality Objective Value	100	100	300	400	400	300	100	200	300	400	100	100	100
Nitrogen (Total)	µg/L	100	350	100	100	300	400	400	300	400	200	300	400	100	100	100
Reactive Phosphorus	µg/L	1	5	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Phosphorus (Total)	µg/L	10	10	20	10	20	30	30	20	<10	<10	40	30	20	20	10
Inorganics																
Cyanide Total	µg/L	4	7	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Hydrocarbons																
Oil and Grease	mg/L	1	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Metals																
Aluminium (dissolved)	µg/L	5	55	<5	<5	12	9	11	40	26	19	10	10	<5	<5	<5
Arsenic (dissolved)	µg/L	0.2	13	0.7	0.5	0.4	0.4	0.4	0.4	0.2	<0.2	0.4	0.4	0.3	0.4	0.4
Chromium (III+VI) (dissolved)	µg/L	0.2	1	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Copper (dissolved)	µg/L	0.5	14	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Iron (dissolved)	µg/L	2	300	20	6	141	90	92	218	98	89	96	91	4	3	3
Lead (dissolved)	µg/L	0.1	3.4	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Manganese (dissolved)	µg/L	0.5	1,900	<0.5	<0.5	0.6	<0.5	<0.5	1.7	3.4	3.4	0.5	<0.5	<0.5	<0.5	<0.5
Nickel (dissolved)	µg/L	0.5	11	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Silver (dissolved)	µg/L	0.01	0.05	<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
Zinc (dissolved)	µg/L	1	8	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Biological																
Faecal Coliforms	CFU/100mL	1	10/100^	75	230	7	-	-	-	-	-	-	5	-	-	-
Biochemical Oxygen Demand	mg/L	2	1/5^	4	3	3	-	-	-	-	-	-	2	-	-	-

* Water Quality Objective values for Talbingo and Tantangara Reservoir refer to the default trigger values for physical and chemical stressors in south-east Australia (fresh lakes and reservoirs) for the protection of 95% of aquatic species ANZECC / ARMCANZ (2000), they are not pollutant limits imposed by EPL 21266.

** Algal blooms can present as feacal coliforms

^ 90th percentile concentration limits / 100 percentile concentration limits

\- Sample not required at this location.

Snowy Hydro 2.0 Main Works

Monthly EPL Sampling: 01-31 March 2025 - Surface Water

Analyte	Unit	Limit of Reporting	Water Quality Objective Value*	EPL5	EPL6	EPL8	EPL9	EPL12	EPL14	EPL15	EPL16	EPL24	EPL26	EPL27	EPL30	EPL31	EPL33	EPL34	EPL35	EPL36	EPL37	EPL52	EPL53	EPL54	EPL55	EPL67	EPL71	EPL84	EPL85	EPL86	EPL98	EPL99	EPL100	EPL101	EPL106	EPL110	EPL118	EPL120	EPL122
Field				3/03/25	3/03/25	3/03/25	3/03/25	3/03/25	3/03/25	3/03/25	3/03/25	7/03/25	18/03/25	18/03/25	1/03/25	1/03/25	1/03/25	1/03/25	1/03/25	8/03/25	8/03/25	4/03/25	Dry	Dry	Dry	Dry	Dry	13/03/25	13/03/25	13/03/25	Dry	18/03/25	Dry	Dry	5/3/25	Dry	Dry	Dry	7/03/25
pH	-	-	6.5-8	8.02	7.9	7.86	8.14	8.06	7.99	8.05	8.25	6.7	7.86	8.23	6.89	7.12	7.23	8.19	7.87	7.29	7.35	9.21	Dry	Dry	Dry	Dry	Dry	9.29	8.85	8.67	Dry	10.45	Dry	Dry	7.66	Dry	Dry	Dry	7.86
Electrical Conductivity	µS/cm	-	30-350	219	123	221	177	172	166	170	175	1270	37	36	40	32	31	48	40	52	54	863	Dry	Dry	Dry	Dry	Dry	966	561	1130	Dry	511	Dry	Dry	1379	Dry	Dry	Dry	539
Oxidation Reduction Potential	mV	-	No Water Quality Objective Value	90	118	139	146	101	121	125	137	134	190	164	298	285	239	136	155	126	145	93	Dry	Dry	Dry	Dry	Dry	115	129	147	Dry	59	Dry	Dry	196	Dry	Dry	Dry	123
Temperature	°C	-	No Water Quality Objective Value	17.93	16.42	21.61	20.07	17.47	17.39	17.77	22.66	18.43	11.98	11	13.43	13.5	17.83	12.18	11.71	16.06	15.75	23.49	Dry	Dry	Dry	Dry	Dry	28.62	23.51	27.8	Dry	12.29	Dry	Dry	21.14	Dry	Dry	Dry	17.55
Dissolved Oxygen	% saturation	-	90-110	88.4	63.3	68.7	84	66.2	107.4	71.5	65.2	65.1	74.2	71.2	61.4	69.4	68.3	66.3	68.8	58.2	63.2	80.4	Dry	Dry	Dry	Dry	Dry	128.5	56	80.4	Dry	69.8	Dry	Dry	101.9	Dry	Dry	Dry	78.8
Turbidity	NTU	-	2-25	8	3.7	4.6	10.1	1.6	3.3	1.7	3.3	0.4	5.3	7.65	5.1	8.8	13.2	71.9	14.9	7.8	9.2	47.1	Dry	Dry	Dry	Dry	Dry	782	1000	56.5	Dry	170	Dry	Dry	20.8	Dry	Dry	Dry	100
Laboratory analytes																																							
TSS	mg/L	5	No Water Quality Objective Value	7	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	36	<5	<5	<5	<5	<5	24	Dry	Dry	Dry	Dry	Dry	223	418	26	Dry	72	Dry	Dry	6	Dry	Dry	Dry	87
Hardness as CaCO3	mg/L	1	No Water Quality Objective Value	212	60	90	82	87	85	85	85	330	18	18	13	13	9	16	16	17	17	260	Dry	Dry	Dry	Dry	Dry	44	31	217	Dry	198	Dry	Dry	420	Dry	Dry	Dry	86
Nutrients																																							
Ammonia as N	µg/L	10	13	20	10	20	<10	<10	10	<10	<10	10	20	<10	40	<10	20	80	30	20	20	390	Dry	Dry	Dry	Dry	Dry	20	50	20	Dry	130	Dry	Dry	<10	Dry	Dry	Dry	70
Nitrite + Nitrate as N (NOx)	µg/L	10	15	<10	<10	380	20	<10	10	10	20	61,400	<10	<10	10	<10	10	<10	<10	20	10	38,100	Dry	Dry	Dry	Dry	Dry	2,140	5,520	11,900	Dry	6,360	Dry	Dry	43,500	Dry	Dry	Dry	9,180
Kjeldahl Nitrogen Total	µg/L	100	No Water Quality Objective Value	<100	<100	<100	<100	<100	<100	100	<100	5,100	<100	<100	200	<100	300	400	300	100	300	7,000	Dry	Dry	Dry	Dry	Dry	800	1,400	1,700	Dry	2,200	Dry	Dry	6,600	Dry	Dry	Dry	400
Nitrogen (Total)	µg/L	100	250	<100	<100	400	<100	<100	<100	100	<100	66,500	<100	<100	200	<100	300	400	300	100	300	45,100	Dry	Dry	Dry	Dry	Dry	2,900	6,900	13,600	Dry	8,600	Dry	Dry	50,100	Dry	Dry	Dry	9,600
Reactive Phosphorus	µg/L	1	15	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	Dry	Dry	Dry	Dry	Dry	<10	20	<10	Dry	<10	Dry	Dry	<10	Dry	Dry	Dry	<10
Phosphorus (Total)	µg/L	10	20	10	30	50	40	<10	30	40	30	20	10	40	150	20	20	40	<10	40	30	30	Dry	Dry	Dry	Dry	Dry	150	160	90	Dry	130	Dry	Dry	20	Dry	Dry	Dry	200
Inorganics																																							
Cyanide Total	µg/L	4	4	<4	<4	<4	<4	14	<4	<4	<4	<4	5	<4	<4	<4	<4	<4	<4	<4	<4	<4	Dry	Dry	Dry	Dry	Dry	<4	<4	<4	Dry	<4	Dry	Dry	<4	Dry	Dry	Dry	<4
Hydrocarbons																																							
Oil and Grease	mg/L	1	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	Dry	Dry	Dry	Dry	Dry	<1.0	<1.0	<1.0	Dry	<1.0	Dry	Dry	<1.0	Dry	Dry	Dry	<1.0
Metals																																							
Aluminium (total)	µg/L	5	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	164	Dry	Dry	Dry	Dry	-	-	-	-	-	-	-	-	-	-	-	-
Aluminium (dissolved)	µg/L	5	27	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	11	12	24	16	15	16	23	<5	Dry	Dry	Dry	Dry	Dry	19	19	5	Dry	65	Dry	Dry	<5	Dry	Dry	Dry	<5
Arsenic (total)	µg/L	0.2	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.6	Dry	Dry	Dry	Dry	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic (dissolved)	µg/L	0.2	0.8	0.7	0.3	0.7	0.6	0.7	0.7	0.7	0.7	0.4	<0.2	<0.2	<0.2	<0.2	0.4	0.2	0.2	0.3	0.4	<0.2	Dry	Dry	Dry	Dry	Dry	20.5	21.9	6.2	Dry	1.4	Dry	Dry	2.3	Dry	Dry	Dry	0.3
Chromium (III+VI) (total)	µg/L	0.2	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.5	Dry	Dry	Dry	Dry	-	-	-	-	-	-	-	-	-	-	-	-
Chromium (III+VI) (dissolved)	µg/L	0.2	0.01	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.4	0.3	0.3	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	Dry	Dry	Dry	Dry	Dry	8.6	15.6	9.3	Dry	76.6	Dry	Dry	2.1	Dry	Dry	Dry	<0.2
Copper (total)	µg/L	0.5	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.8	Dry	Dry	Dry	Dry	-	-	-	-	-	-	-	-	-	-	-	-
Copper (dissolved)	µg/L	0.5	1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	Dry	Dry	Dry	Dry	Dry	4.0	1.9	0.8	Dry	0.7	Dry	Dry	<0.5	Dry	Dry	Dry	<0.5
Iron (total)	µg/L	2	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	132	Dry	Dry	Dry	Dry	-	-	-	-	-	-	-	-	-	-	-	-
Iron (dissolved)	µg/L	2	300	6	22	11	12	6	8	9	13	2	22	15	46	35	145	213	221	324	269	<2	Dry	Dry	Dry	Dry	Dry	27	36	<2	Dry	5	Dry	Dry	<2	Dry	Dry	Dry	4
Lead (total)	µg/L	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.1	Dry	Dry	Dry	Dry	-	-	-	-	-	-	-	-	-	-	-	-
Lead (dissolved)	µg/L	0.1	1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	Dry	Dry	Dry	Dry	Dry	<0.1	<0.1	<0.1	Dry	<0.1	Dry	Dry	<0.1	Dry	Dry	Dry	<0.1
Manganese (total)	µg/L	0.5	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.9	Dry	Dry	Dry	Dry	-	-	-	-	-	-	-	-	-	-	-	-
Manganese (dissolved)	µg/L	0.5	1,200	0.6	2.4	1.5	5.0	0.8	0.8	1.5	2.9	275	5.2	2.8	3.5	2.0	0.9	11.8	5.6	43.2	0.8	<0.5	Dry	Dry	Dry	Dry	Dry	0.8	<0.5	<0.5	Dry	<0.5	Dry	Dry	<0.5	Dry	Dry	Dry	<0.5
Nickel (total)	µg/L	0.5	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.9	Dry	Dry	Dry	Dry	-	-	-	-	-	-	-	-	-	-	-	-
Nickel (dissolved)	µg/L	0.5	8	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	2.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	Dry	Dry	Dry	Dry	Dry	1.2	0.6	0.6	Dry	<0.5	Dry	Dry	1.9	Dry	Dry	Dry	<0.5
Silver (total)	µg/L	0.01	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.01	Dry	Dry	Dry	Dry	-	-	-	-	-	-	-	-	-	-	-	-
Silver (dissolved)	µg/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	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	Dry	Dry	Dry	Dry	Dry	<0.01	<0.01	<0.01	Dry	<0.01	Dry	Dry	<0.01	Dry	Dry	Dry	<0.01
Zinc (total)	µg/L	1	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	Dry	Dry	Dry	Dry	-	-	-	-	-	-	-	-	-	-	-	-
Zinc (dissolved)	µg/L	1	2.4	<1	<1	<1	<1	<1	<1	<1	<1	7	<1	<1	8	<1	<1	<1	<1	<1	<1	<1	Dry	Dry	Dry	Dry	Dry	<1	2	<1	Dry	<1	Dry	Dry	<1	Dry	Dry	Dry	<1

* Water Quality Objective values for surface water refer to the default trigger values for physical and chemical stressors in south-east Australia (upland rivers) for the protection of 99% of aquatic species ANZECC / ARMCANZ (2018), they are not pollutant limits imposed by EPL 21266.

\- Samples not required

Snowy Hydro 2.0 Main Works

Monthly EPL Sampling: 01-31 March 2025 - Discharge Water

Analyte	Unit	Limit of Reporting	Water Quality Objective Value*	EPL 41	EPL 43	EPL 44	EPL 45	EPL 47	EPL 48	EPL 49	EPL 50
Flow Rate				16/03/2025							12/03/2025
Inflow#	ML/day	-	-	-	0.0000	0.2650	0.0512	0.2177	0.0970	0.7472	-
Outflow#	ML/day	-	4.32 (EPL 43 / 50)	-	-	-	-	-	-	-	-
Field											
pH	pH Unit	-	6.5-8.5	7.84	-	-	-	-	-	-	7.92
Electrical Conductivity	µS/cm	-	700 (EPL 41) / 200 (EPL 50)	6	-	-	-	-	-	-	18.6
Oxidation Reduction Potential	mV	-	No Water Quality Objective Value	507	-	-	-	-	-	-	701
Temperature	°C	-	15	25.15	-	-	-	-	-	-	16.1
Dissolved Oxygen	% saturation	-	No Water Quality Objective Value	73.6	-	-	-	-	-	-	55.2
Turbidity	NTU	-	<25	0.9	-	-	-	-	-	-	0.53
Laboratory analytes											
Total suspended solids	mg/L	5	5/10	<5	-	-	-	-	-	-	<5
Hardness as $CaCO_3$ (filtered)	mg/L	1	No Water Quality Objective Value	<1	-	-	-	-	-	-	<1
Nutrients											
Ammonia as N	µg/L	10	200/2000^	40	-	-	-	-	-	-	<10
Nitrite + Nitrate as N (NOx)	µg/L	10	10	100	-	-	-	-	-	-	<10
Kjeldahl Nitrogen Total	µg/L	100	No Water Quality Objective Value	<100	-	-	-	-	-	-	<100
Nitrogen (Total)	µg/L	100	350/-^	100	-	-	-	-	-	-	<100
Reactive Phosphorus	µg/L	1	No Water Quality Objective Value	<10	-	-	-	-	-	-	<10
Phosphorus (Total)	µg/L	10	100/300^	<10	-	-	-	-	-	-	10
Inorganics											
Cyanide Total	µg/L	4	No Water Quality Objective Value	<4	-	-	-	-	-	-	<4
Hydrocarbons											
Oil and Grease	mg/L	1	2/5^	<1.0	-	-	-	-	-	-	<1
Metals											
Aluminium (dissolved)	µg/L	5	55	<5	-	-	-	-	-	-	<5
Arsenic (dissolved)	µg/L	0.2	13	<0.2	-	-	-	-	-	-	<0.2
Chromium (III+VI) (dissolved)	µg/L	0.2	1	<0.2	-	-	-	-	-	-	<0.2
Copper (dissolved)	µg/L	0.5	14	<0.5	-	-	-	-	-	-	<0.5
Iron (dissolved)	µg/L	2	300	<2	-	-	-	-	-	-	<2
Lead (dissolved)	µg/L	0.1	3.4	<0.1	-	-	-	-	-	-	<0.1
Manganese (dissolved)	µg/L	0.5	1,900	<0.5	-	-	-	-	-	-	<0.5
Nickel (dissolved)	µg/L	0.5	11	<0.5	-	-	-	-	-	-	<0.5
Silver (dissolved)	µg/L	0.01	0.05	<0.01	-	-	-	-	-	-	<0.01
Zinc (dissolved)	µg/L	1	8	<1	-	-	-	-	-	-	<1
Biological											
Faecal Coliforms	CFU/100mL	1	10/100^	11.00	-	-	-	-	-	-	<1
Biological Oxygen Demand	mg/L	2	5	<2	-	-	-	-	-	-	<1

Note: Treated water was not being discharged at Talbingo Reservoir at the time of EPL sampling.
There is no 100th percentile limit for Nitrogen (Total).

* Water Quality Objective values Treated Water reference the predicted values for physical and chemical stressors from the treatment plant as presented in the Main Works EIS.

\- Samples not required

^ 90 Percentile concentration limit/100 Percentile limit

Inflows to STP and CWTP do not directly correspond to outflow at RO as much of the water is reused on site

Snowy Hydro 2.0 Main Works
Monthly EPL Sampling: 01-31 March 2025 - Volumes

Date	EPL 43 *	EPL 50 ^	EPL 44	EPL 45	EPL 47	EPL 48	EPL 49
	Discharge volume (Megalitres)		Discharge volume (Megalitres)				
1/03/2025	-	-	0.14	0.06	0.16	0.12	0.62
2/03/2025	0.44	-	0.15	0.06	0.20	0.05	0.52
3/03/2025	-	-	0.15	0.07	0.21	0.08	0.71
4/03/2025	-	-	0.15	0.06	0.20	0.24	0.86
5/03/2025	-	-	0.11	0.04	0.22	0.08	0.79
6/03/2025	-	-	0.12	0.04	0.21	0.09	0.75
7/03/2025	-	-	0.15	0.05	0.21	0.08	0.76
8/03/2025	-	-	0.22	0.03	0.23	0.09	0.79
9/03/2025	-	-	0.16	0.04	0.21	0.09	0.69
10/03/2025	-	-	0.21	0.07	0.18	0.08	0.86
11/03/2025	-	-	0.13	0.03	0.20	0.09	0.59
12/03/2025	-	-	0.13	0.05	0.18	0.08	0.53
13/03/2025	0.20	-	0.13	0.05	0.20	0.07	0.83
14/03/2025	-	-	0.73	0.05	0.20	0.09	0.92
15/03/2025	-	-	0.42	0.04	0.20	0.07	0.98
16/03/2025	-	-	0.49	0.06	0.17	0.01	0.68
17/03/2025	-	-	0.41	0.07	0.29	0.07	0.52
18/03/2025	-	-	0.42	0.07	0.23	0.16	0.87
19/03/2025	-	-	0.40	0.06	0.25	0.04	0.72
20/03/2025	-	-	0.42	0.06	0.25	0.06	0.64
21/03/2025	-	-	0.28	0.03	0.19	0.06	0.58
22/03/2025	0.12	-	0.24	0.04	0.20	0.06	0.78
23/03/2025	0.57	-	0.39	0.06	0.20	0.01	0.73
24/03/2025	-	-	0.24	0.04	0.22	0.04	0.76
25/03/2025	0.38	-	0.25	0.04	0.22	0.08	0.81
26/03/2025	1.14	-	0.16	0.05	0.23	0.25	0.52
27/03/2025	0.27	0.73	0.28	0.05	0.22	0.08	0.83
28/03/2025	-	0.63	0.13	0.04	0.24	0.08	0.83
29/03/2025	-	-	0.24	0.05	0.21	0.17	0.50
30/03/2025	14.85	0.28	0.30	0.05	0.21	0.16	0.67
31/03/2025	0.39	-	0.21	0.05	0.21	0.17	0.78

- Water not discharged on this day

Note: The EPL discharge volume limit for EPL 43 and 50 is 4.32 megalitres per day. Compliance with this criteria was met during the reporting month.

* The maximum flow rate capacity for Lobs Hole STP/PWTP during the reporting month was 8.45 L/s

^ The maximum flow rate capacity for Tantangara STP/PWTP during the reporting month was 11.34 L/s

-- Water not discharged on this day

Snowy Hydro 2.0 Main Works EPL Sampling: 01 - 30 April 2025

Environmental Protection Licence No:	21266
Licensee:	Snowy Hydro Limited
Licensee address:	PO Box 332, Cooma, NSW 2630
Premises:	Snowy 2.0 Pumped Hydro Power Station Talbingo and Tantangara, Kosciuszko National Park and Rock Forest, Kosciuszko NSW 2642
EPA Public Register:	https://apps.epa.nsw.gov.au/prpoeoapp/Detail.aspx?instid=21266&id=21266&option=licence&searchrange=licence&range=POEO%20licence&prp=no&status=Issued

Monthly water sampling and analysis is performed as part of the Snowy 2.0 Approval Conditions, Environmental Protection Licence No 21266 - Variation 20 December 2024, and the approved Water Management Plan to ensure that works are not impacting on nearby receiving waters.

A map showing the location of each of the EPL named sampling points is provided after the results tables.
Surface Water Results: EPL24 reported elevated nutrient concentrations, electrical conductivity and select heavy metals in line with previous sampling rounds, consistent with low water levels at the location. Although this is typical of low flows the site will continue to be monitored weekly. Multiple locations, such as EPL122 have reported elevated EC, low DO, and elevated nitrogen analytes. These are understood to be influenced by the low flow rates within the streams, and the catchments for our basin locations.

Reservoir Results: Reduced water levels and the developing algal cycle within the Tantangara and Talbingo water bodies are understood to heavily influence the observed analytical results. Notable concentrations of biological analytes, DO, EC and the nitrogen compounds observed at multiple locations are reflective of this.

Discharge Results: The analytical results reflect sample collection during the plant recirculation phase. Slight exceedances of nitrogen compounds and in-situ readings were noted. Note: No discharge occurred on the date the samples were collected. Although the samples were taken from the EPL designated EPL41, the commissioning of the INX-OUT location further downstream is understood to be a more representative location.

Groundwater Results: The results for downstream groundwater points have returned elevated results in Nitrogen, Nitrates, Phosphorus, and Ammonia that are greater than adopted WQO's. Multiple locations have reported concentrations of nitrogenous compounds across the Project footprint, particularly from locations within proximity to the emplacement area GF01. Locations such as EPL57 are returning elevated nitrates, Nitrogens, and phosphorus results were observed to be increasing. Heavy metals such as Arsenic and Copper (dissolved) were reported as greater than adopted WQO's at Main Yard locations particularly. It is noted the majority of heavy metal concentrations are within historic ranges for the historic mining locations. EPL87, EPL95, EPL105 reported elevated concentrations of dissolved zinc outside historic ranges.

Leachate results: The exceedances found within the leachate basin results are in line with intended design functionality for the storage locations of leachate water. GF01 leachate basin was under repair works by construction and therefore had no water available for collection.

Snowy Hydro 2.0 Main Works
Monthly EPL Sampling: 01-31 March 2025 - Groundwater

Analyte	Unit	Limit of Reporting	Water Quality Objective Value*	EPL56	EPL57	EPL58	EPL68	EPL69	EPL70	EPL72	EPL73 (decommissioned)	EPL80	EPL81	EPL82	EPL83	EPL87	EPL88	EPL89	EPL 90	EPL 91	EPL92	EPL93	EPL94	EPL95	EPL96	EPL97	EPL102 (Decommissioned)	EPL103	EPL104	EPL105	EPL113	EPL114	EPL115	EPL116	EPL117
Physiochemical				14/04/2025	14/04/2025	14/04/2025	6/04/2025	6/04/2025	6/04/2025	13/04/2025	-	11/04/2025	11/04/2025	11/04/2025	11/04/2025	11/04/2025	11/04/2025	11/04/2025	14/04/2025	14/04/2025	14/04/2025	14/04/2025	14/04/2025	14/04/2025	9/04/2025	14/04/2025	-	6/04/2025	6/04/2025	6/04/2025	4/04/2025	4/04/2025	4/04/2025	4/04/2025	4/04/2025
pH	**pH Unit**	-	6.5-8	7.4	7.44	6.11	5.72	5.9	5.9	7.21	-	6.8	7.1	6.65	6.78	6.72	7.14	6.81	7.23	6.98	7.87	7.84	7.78	7.89	6.72	6.84	-	6.01	5.95	5.83	6.31	7.41	7.38	6.88	6.34
Electrical Conductivity	**µS/cm**	-	30-350	214	194	962	2	9	9	46	-	685	859	2190	815	651	788	302	62	218	134	207	151	821	291	363	-	13	14	130	168	397	363	178	149
Oxidation Reduction Potential	**mV**	-	No Water Quality Objective Value	186	264	134	288	289	289	105	-	-41	-167	-50	-32	152	-215	-145	130	-108	142	114	12	94	216	113	-	296	296	310	154	27	36	128	-
Temperature	**°C**	-	No Water Quality Objective Value	18.47	16.29	15.62	12.34	12.4	12.4	14.68	-	18.13	19.05	17.18	17.36	17.43	16.1	16.01	13.59	14.51	13.56	13.81	13.88	15	11.79	15.49	-	11.05	12.6	12.64	15.08	15.49	15.51	15.55	15.82
Dissolved Oxygen	**% saturation**	-	No Water Quality Objective Value	24.6	15.7	27.4	72.6	42.1	42.1	50.9	-	20.8	27.1	17.4	42.8	40.3	37.7	60.6	73.8	37.1	93.8	91	91	89.9	99.4	22.7	-	39.2	39.7	40	17.7	21.6	13.2	54.5	10.8
Turbidity	**NTU**	-	No Water Quality Objective Value	4.9	91.9	95.2	15.1	23.8	23.8	206	-	14.3	669	43.9	74.7	1000	18.7	14.8	100	11.2	930	895	107	151	869	1.3	-	8.6	11.7	168	437	20.4	220	1000	1000
Laboratory analytes																																			
TSS	**mg/L**	5	No Water Quality Objective Value	<5	79	68	<5	17	18	88	-	14	2,030	71	54	11,700	46	223	71	10	593	2,190	193	134	510	<5	-	<5	<5	43	42	9	222	6,400	32
Hardness as CaCO3	**mg/L**	1	No Water Quality Objective Value	95	112	372	<1	9	26	13	-	372	460	1,240	143	200	154	64	20	126	36	104	72	346	126	140	-	2	9	50	48	190	177	71	43
Nutrients																																			
Ammonia as N	**µg/L**	10	13	20	<10	30	<10	<10	<10	10	-	60	60	100	30	420	40	70	10	40	10	30	20	140	420	20	-	<10	<10	<10	10	70	30	30	20
Nitrite + Nitrate as N (NOx)	**µg/L**	10	15	90	1,230	63,800	760	140	890	40	-	<10	30	<10	10,100	8,110	8,260	<10	340	<10	30	20	<10	49,700	9,150	70	-	850	230	5,700	20	<10	<10	40	<10
Kjeldahl Nitrogen Total	**µg/L**	100	No Water Quality Objective Value	100	100	2,700	<100	<100	<500	100	-	200	600	200	300	2,000	600	100	100	<100	200	500	100	2,600	<100	<100	-	100	<100	500	400	<100	100	1,600	300
Nitrogen (Total)	**µg/L**	100	250	200	1,300	66,500	800	100	900	100	-	200	600	200	10,400	10,100	8,900	100	400	<100	200	500	100	52,300	9,200	<100	-	1,000	200	6,200	400	<100	100	1,600	300
Reactive Phosphorus	**µg/L**	1	15	<1	<1	<1	<1	<1	20	<1	-	<1	<1	<1	<1	<1	<1	<1	<1	20	<1	<1	<1	<1	20	20	-	1	<1	<1	<1	<1	<1	10	<1.0
Phosphorus (Total)	**µg/L**	10	20	50	50	190	<10	<10	130	150	-	220	300	<10	20	540	80	10	60	70	280	1,020	100	180	460	70	-	20	<10	<10	80	20	60	1,770	1,650
Inorganics																																			
Cyanide Total	**µg/L**	4	4	<4	<4	<4	<4	<4	<4	<4	-	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	-	<4	<4	<4	<4	<4	<4	<4	<4
Hydrocarbons																																			
Oil and Grease	**mg/L**	1	5	<1	<1	<1	<1	<1	<1	<1	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	<1	<1	<1	<1	<1	<1	<1	<1
Metals																																			
Aluminium (total)	**µg/L**	5	No Water Quality Objective Value	94	743	516	315	976	1,110	764	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aluminium (dissolved)	**µg/L**	5	27	<5	<5	<5	<5	<5	<5	5	-	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	-	<5	<5	<5	7	<5	<5	<5	<5
Arsenic (total)	**µg/L**	0.2	No Water Quality Objective Value	<0.2	2.4	0.6	<0.2	0.2	<0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic (dissolved)	**µg/L**	0.2	0.8	<0.2	2.4	<0.2	<0.2	<0.2	<0.2	<0.2	-	5.6	6.9	8.7	2.3	0.5	18.9	0.4	<0.2	0.5	<0.2	0.8	1.3	0.5	0.3	0.2	-	<0.2	<0.2	<0.2	0.4	0.4	0.4	0.5	0.9
Chromium (III+VI) (total)	**µg/L**	0.2	No Water Quality Objective Value	0.4	1.4	1.6	0.3	1.0	1.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium (III+VI) (dissolved)	**µg/L**	0.2	0.01	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	<0.2	<0.2	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.3	<0.2	-	<0.2	<0.2	0.3	<0.2	<0.2	<0.2	<0.2	<0.2
Copper (total)	**µg/L**	0.5	No Water Quality Objective Value	6.2	9.9	3.8	0.6	3.5	22.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper (dissolved)	**µg/L**	0.5	1	1.0	1.2	0.8	<0.5	<0.5	6.9	4.2	-	<0.5	0.6	<0.5	3.3	0.7	<0.5	6.1	<0.5	<0.5	<0.5	<0.5	<0.5	0.8	<0.5	<0.5	-	6.2	<0.5	<0.5	2.0	<0.5	<0.5	<0.5	<0.5
Iron (total)	**µg/L**	2	No Water Quality Objective Value	125	708	860	152	611	646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron (dissolved)	**µg/L**	2	300	<2	<2	<2	<2	4	<2	<2	-	<2	<2	379	<2	<2	48	<2	<2	2	<2	<2	<2	<2	4	<2	-	<2	<2	<2	13	2	<2	<2	1,450
Lead (total)	**µg/L**	0.1	No Water Quality Objective Value	1.0	1.6	8.6	0.1	0.4	0.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead (dissolved)	**µg/L**	0.1	1	<0.1	<0.1	0.3	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.3	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	0.1	<0.1	<0.1	<0.1	<0.1
Manganese (total)	**µg/L**	0.5	No Water Quality Objective Value	31.9	102	212	4.3	17.2	12.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese (dissolved)	**µg/L**	0.5	1,200	12.6	58.9	175	2.1	1.3	1.6	5.0	-	198	267	355	51.6	336	176	15.6	5.3	466	61.6	128	363	901	105	295	-	<0.5	3.4	17.0	80.7	392	369	49.0	309
Nickel (total)	**µg/L**	0.5	No Water Quality Objective Value	0.5	2.4	6.6	0.8	0.9	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel (dissolved)	**µg/L**	0.5	8	<0.5	<0.5	4.2	<0.5	<0.5	<0.5	1.0	-	17.4	2.5	1.4	8.4	3.4	3.0	2.0	1.5	<0.5	1.1	0.8	0.9	10.0	8.8	1.1	-	<0.5	<0.5	3.5	<0.5	54.2	<0.5	0.6	1.4
Silver (total)	**µg/L**	0.01	No Water Quality Objective Value	<0.01	<0.01	0.16	<0.01	<0.01	<0.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver (dissolved)	**µg/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	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Zinc (total)	**µg/L**	1	No Water Quality Objective Value	7	6	16	4	3	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc (dissolved)	**µg/L**	1	2.4	1	<1	7	2	<1	<1	4	-	1	3	2	2	111	1	<1	7	<1	6	<1	4	23	10	17	-	<1	<1	21	2	3	<1	3	<1

* Water Quality Objective values for groundwater refer to the default trigger values for physical and chemical stressors in south-east Australia (upland rivers) for the protection of 99% of aquatic species ANZECC / ARMCANZ (2000), they are not pollutant limits imposed by EPL 21266.

\- Sample not required at this location.

Snowy Hydro 2.0 Main Works

Monthly EPL Sampling: 01-30 April 2025 - Talbingo and Tantangara Reservoir

Analyte	Unit	Limit of Reporting	Water Quality Objective Value*	EPL10	EPL11	EPL28	EPL29	EPL32	EPL38	EPL39	EPL40	EPL46	EPL51	EPL107	EPL108	EPL109
Field				13/04/2025	13/04/2025	16/04/2025	15/04/2025	15/04/2025	12/04/2025	6/04/2025	12/04/2025	15/04/2025	16/04/2025	13/04/2025	13/04/2025	13/04/2025
pH	**pH Unit**	-	6.5-8	7.35	7.35	8.93	7.82	8.13	8.59	7.2	7.72	7.74	7.87	7.24	7.29	7.9
Electrical Conductivity	**µS/cm**	-	20-30	47	41	13.9	27	27	27	2	32.5	28	27.5	38	33	35
Oxidation Reduction Potential	**mV**	-	No Water Quality Objective Value	193	190	110.1	134	110	113	259	143.5	165	144.7	183	175	145
Temperature	**°C**	-	No Water Quality Objective Value	18.32	18.42	15.3	14.65	14.7	14.9	11.75	16.2	13.84	16.6	17.75	17.4	17.27
Dissolved Oxygen	**% saturation**	-	90-110	87.2	91.2	89.7	60.1	101.6	89.1	65	101.3	93.6	91	85	89.2	85.7
Turbidity	**NTU**	-	1-20	5.1	9.5	6.85	0	3.3	57.9	6	3.28	8.2	10.96	0.5	11	15.9
Laboratory analytes																
Total suspended solids	**mg/L**	5	No Water Quality Objective Value	<5	<5	17	<5	<5	18	<5	<5	<5	<5	<5	<5	<5
Hardness as $CaCO_3$ (filtered)	**mg/L**	1	No Water Quality Objective Value	22	19	9	9	9	9	7	9	9	9	10	10	10
Nutrients																
Ammonia as N	**µg/L**	10	10	30	30	<10	10	10	<10	<10	<10	20	<10	<10	<10	<10
Nitrite + Nitrate as N (NOx)	**µg/L**	10	10	<10	<10	10	<10	<10	<10	80	<10	<10	<10	<10	<10	<10
Kjeldahl Nitrogen Total	**µg/L**	100	No Water Quality Objective Value	100	100	1,200	500	300	800	100	<100	300	400	<100	<100	<100
Nitrogen (Total)	**µg/L**	100	350	100	100	1,200	500	300	800	200	<100	300	400	<100	<100	<100
Reactive Phosphorus	**µg/L**	1	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Phosphorus (Total)	**µg/L**	10	10	30	20	70	30	30	40	150	20	20	50	20	20	<10
Inorganics																
Cyanide Total	**µg/L**	4	7	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Hydrocarbons																
Oil and Grease	**mg/L**	1	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Metals																
Aluminium (dissolved)	**µg/L**	5	55	<5	<5	15	9	9	9	12	13	8	9	<5	<5	<5
Arsenic (dissolved)	**µg/L**	0.2	13	0.4	0.4	0.3	0.3	0.4	0.4	<0.2	<0.2	0.4	0.4	0.4	0.4	0.3
Chromium (III+VI) (dissolved)	**µg/L**	0.2	1	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Copper (dissolved)	**µg/L**	0.5	14	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Iron (dissolved)	**µg/L**	2	300	6	4	72	55	56	52	77	58	61	58	4	4	4
Lead (dissolved)	**µg/L**	0.1	3.4	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Manganese (dissolved)	**µg/L**	0.5	1,900	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	2.2	2.4	<0.5	<0.5	<0.5	<0.5	<0.5
Nickel (dissolved)	**µg/L**	0.5	11	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Silver (dissolved)	**µg/L**	0.01	0.05	<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
Zinc (dissolved)	**µg/L**	1	8	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Biological																
Faecal Coliforms	**CFU/100mL**	1	10/100^	28	21	100	-	-	-	-	-	-	1	-	-	-
Biochemical Oxygen Demand	**mg/L**	2	1/5^	4	3	4	-	-	-	-	-	-	2	-	-	-

* Water Quality Objective values for Talbingo and Tantangara Reservoir refer to the default trigger values for physical and chemical stressors in south-east Australia (fresh lakes and reservoirs) for the protection of 95% of aquatic species ANZECC / ARMCANZ (2000), they are not pollutant limits imposed by EPL 21266.

** Algal blooms can present as faecal coliforms

^ 90th percentile concentration limits / 100 percentile concentration limits

\- Sample not required at this location.

Snowy Hydro 2.0 Main Works
Monthly EPL Sampling: 01-30 April 2025 - Surface Water

Analyte	Unit	Limit of Reporting	Water Quality Objective Value*	EPL5	EPL6	EPL8	EPL9	EPL12	EPL14	EPL15	EPL16	EPL24	EPL26	EPL27	EPL30	EPL31	EPL33	EPL34	EPL35	EPL36	EPL37	EPL52	EPL53	EPL54	EPL55	EPL67	EPL71	EPL84	EPL85	EPL86	EPL98	EPL99	EPL100	EPL101	EPL106	EPL110	EPL118	EPL120	EPL122
Field				11/04/2025	11/04/2025	11/04/2025	11/04/2025	11/04/2025	11/04/2025	11/04/2025	11/04/2025	9/04/2025	13/04/2025	13/04/2025	6/04/2025	6/04/2025	6/04/2025	6/04/2025	6/04/2025	22/04/2025	5/04/2025	9/04/2025	Dry	Dry	Dry	Dry	Dry	29/04/2025	29/04/2025	11/04/2025	Dry	13/04/2025	19/04/2025	13/04/2025	12/04/2025	Dry	Dry	Dry	22/04/2025
pH	-	-	6.5-8	8.14	8.09	8.18	8.18	8.18	8.2	8.17	8.34	6.83	8.23	8.09	7.66	7.53	7.51	7.87	7.69	6.76	7.45	8.71	Dry	Dry	Dry	Dry	Dry	9.02	9.04	8.85	Dry	9.5	8.74	7.17	8.85	Dry	Dry	Dry	8.26
Electrical Conductivity	µS/cm	-	30-350	150	127	153	149	147	144	146	147	922	37	32	11	1	7	13	7	40	22	960	Dry	Dry	Dry	Dry	Dry	937	679	871	Dry	479	1050	1330	1660	Dry	Dry	Dry	656
Oxidation Reduction Potential	mV	-	No Water Quality Objective Value	173	173	175	176	167	173	176	170	112	124	133	236	244	229	182	180	201	201	165	Dry	Dry	Dry	Dry	Dry	94	113	-15	Dry	4	74	115	44	Dry	Dry	Dry	135
Temperature	°C	-	No Water Quality Objective Value	12.21	12.56	16.69	15.83	12.36	13.31	13.84	15.63	14.29	10.46	9.27	8.13	7.87	14.11	9.3	7.54	11.89	12.21	13.56	Dry	Dry	Dry	Dry	Dry	18.89	18.05	19.01	Dry	17.66	16.25	18.34	17.44	Dry	Dry	Dry	15.06
Dissolved Oxygen	% saturation	-	90-110	92.3	96.7	89.3	97.9	93.3	95.1	97.2	93.8	50.6	74.3	77.7	75	58.8	63.2	81	68.9	51.8	64.9	69.5	Dry	Dry	Dry	Dry	Dry	89.8	72.6	90.2	Dry	94.9	62.3	5.33	89.2	Dry	Dry	Dry	59.3
Turbidity	NTU	-	2-25	3.83	0.59	0.86	0.69	0.4	1.11	0.3	0.3	18.6	16.4	14.2	6.3	3.6	30.8	9.4	3.6	15.2	23.5	73.2	Dry	Dry	Dry	Dry	Dry	1000	1000	190	Dry	26.6	167	41.3	17	Dry	Dry	Dry	1000
Laboratory analytes																																							
TSS	mg/L	5	No Water Quality Objective Value	6	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	6	<5	<5	16	29	34	Dry	Dry	Dry	Dry	Dry	349	571	77	Dry	<5	60	<5	<5	Dry	Dry	Dry	577
Hardness as CaCO3	mg/L	1	No Water Quality Objective Value	81	72	81	85	83	87	87	-	282	18	14	13	9	9	16	16	13	17	285	Dry	Dry	Dry	Dry	Dry	39	46	144	Dry	170	276	303	460	Dry	Dry	Dry	61
Nutrients																																							
Ammonia as N	µg/L	10	13	40	<10	50	20	20	20	10	6	<10	20	10	<10	<10	20	30	<10	10	20	30	Dry	Dry	Dry	Dry	Dry	50	60	20	Dry	12,300	690	2,110	20	Dry	Dry	Dry	20
Nitrite + Nitrate as N (NOx)	µg/L	10	15	<10	<10	120	80	<10	<10	<10	2	39,100	10	<10	10	<10	60	20	<10	60	<10	32,600	Dry	Dry	Dry	Dry	Dry	8,220	7,580	10,200	Dry	33,400	37,800	38,000	10,300	Dry	Dry	Dry	6,820
Kjeldahl Nitrogen Total	µg/L	100	No Water Quality Objective Value	200	100	200	200	100	100	100	400	5,200	<100	<100	<100	<100	400	100	100	200	600	100	Dry	Dry	Dry	Dry	Dry	3,800	1,700	2,500	Dry	15,000	4,200	7,200	8,000	Dry	Dry	Dry	2,500
Nitrogen (Total)	µg/L	100	250	200	100	300	300	100	100	100	400	44,300	<100	<100	<100	<100	500	100	100	300	600	32,700	Dry	Dry	Dry	Dry	Dry	12,000	9,300	12,700	Dry	48,400	42,000	45,200	18,300	Dry	Dry	Dry	9,300
Reactive Phosphorus	µg/L	1	15	<1	<1	<1	<1	<1	<1	<1	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	Dry	Dry	Dry	Dry	Dry	<10	<10	<10	Dry	<10	<10	<10	<10	Dry	Dry	Dry	<10
Phosphorus (Total)	µg/L	10	20	<10	<10	<10	30	<10	<10	20	9	20	<10	30	10	<10	20	10	20	20	40	60	Dry	Dry	Dry	Dry	Dry	850	630	60	Dry	20	100	30	<10	Dry	Dry	Dry	730
Inorganics																																							
Cyanide Total	µg/L	4	4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	Dry	Dry	Dry	Dry	Dry	<4	<4	<4	Dry	116	<4	7	<4	Dry	Dry	Dry	
Hydrocarbons																																							
Oil and Grease	mg/L	1	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	Dry	Dry	Dry	Dry	Dry	<1	<1	<1	Dry	<1	<1	<1	<1	Dry	Dry	Dry	<1
Metals																																							
Aluminium (total)	µg/L	5	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,140	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aluminium (dissolved)	µg/L	5	27	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	7	8	9	8	8	16	16	31	Dry	Dry	Dry	Dry	Dry	11	9	8	Dry	16	20	8	6	Dry	Dry	Dry	6
Arsenic (total)	µg/L	0.2	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic (dissolved)	µg/L	0.2	0.8	0.7	0.3	0.7	0.7	0.7	0.6	0.6	<1	1.1	<0.2	<0.2	<0.2	<0.2	0.4	<0.2	<0.2	0.3	0.3	4.4	Dry	Dry	Dry	Dry	Dry	19.5	21.4	15.4	Dry	1.3	1.9	2.3	2.5	Dry	Dry	Dry	2.0
Chromium (III+VI) (total)	µg/L	0.2	No Water Quality Objective Value	-	-	-	-	-	-	-	<1	-	-	-	-	-	-	-	-	-	-	5.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium (III+VI) (dissolved)	µg/L	0.2	0.01	<0.2	<0.2	<0.2	<0.2	0.2	<0.2	<0.2	<1	1.6	0.3	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	2.3	Dry	Dry	Dry	Dry	Dry	15.0	21.2	11.0	Dry	14.1	7.2	13.6	1.6	Dry	Dry	Dry	0.3
Copper (total)	µg/L	0.5	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper (dissolved)	µg/L	0.5	1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.8	Dry	Dry	Dry	Dry	Dry	6.2	2.0	2.0	Dry	2.0	1.5	1.7	<0.5	Dry	Dry	Dry	1.0
Iron (total)	µg/L	2	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,410	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron (dissolved)	µg/L	2	300	48	21	7	9	3	4	6	<50	8	14	9	33	25	83	118	134	211	136	3	Dry	Dry	Dry	Dry	Dry	20	5	<2	Dry	<2	<2	<2	<2	Dry	Dry	Dry	8
Lead (total)	µg/L	0.1	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead (dissolved)	µg/L	0.1	1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<1	0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	Dry	Dry	Dry	Dry	Dry	0.5	0.1	<0.1	Dry	<0.1	<0.1	<0.1	<0.1	Dry	Dry	Dry	<0.1
Manganese (total)	µg/L	0.5	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	34.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese (dissolved)	µg/L	0.5	1,200	3.2	3.8	1.3	3.4	0.6	0.6	1.4	<5	238	3.3	1.0	4.4	2.1	<0.5	6.7	9.3	36.2	4.1	1.7	Dry	Dry	Dry	Dry	Dry	0.8	<0.5	<0.5	Dry	2.1	42.0	116	<0.5	Dry	Dry	Dry	7.9
Nickel (total)	µg/L	0.5	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel (dissolved)	µg/L	0.5	8	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	4.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.8	Dry	Dry	Dry	Dry	Dry	1.8	0.8	0.8	Dry	0.6	1.8	1.9	1.9	Dry	Dry	Dry	1.1
Silver (total)	µg/L	0.01	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver (dissolved)	µg/L	0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	Dry	Dry	Dry	Dry	Dry	<0.01	<0.01	<0.01	Dry	0.02	<0.01	<0.01	<0.01	Dry	Dry	Dry	<0.01
Zinc (total)	µg/L	1	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc (dissolved)	µg/L	1	2.4	<1	<1	<1	<1	<1	<1	<1	<5	14	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	Dry	Dry	Dry	Dry	Dry	1	<1	<1	Dry	<1	<1	<1	<1	Dry	Dry	Dry	<1

* Water Quality Objective values for surface water refer to the default trigger values for physical and chemical stressors in south-east Australia (upland rivers) for the protection of 99% of aquatic species ANZECC / ARMCANZ (2018), they are not pollutant limits imposed by EPL 21266.

\- Samples not required

Snowy Hydro 2.0 Main Works
Monthly EPL Sampling: 01-30 April 2025 - Volumes

Date	EPL 43 *	EPL 50 ^	EPL 44	EPL 45	EPL 47	EPL 48	EPL 49
	Discharge volume (Megalitres)		Discharge volume (Megalitres)				
1/04/2025	-	0.12	0.21	0.05	0.19	0.06	1.10
2/04/2025	0.52	0.63	0.25	0.06	0.23	0.08	0.95
3/04/2025	0.46	-	0.22	0.05	0.23	0.09	0.62
4/04/2025	0.38	0.82	0.14	0.07	0.28	0.10	0.60
5/04/2025	0.28	-	0.04	0.03	0.24	0.07	0.33
6/04/2025	-	0.74	0.19	0.06	0.21	0.10	0.72
7/04/2025	-	-	0.30	0.06	0.25	0.07	0.59
8/04/2025	-	0.34	0.46	0.06	0.22	0.09	0.76
9/04/2025	-	0.58	0.48	0.06	0.23	0.05	0.52
10/04/2025	-	-	0.51	0.08	0.17	0.09	0.71
11/04/2025	-	0.44	0.25	0.07	0.18	0.28	0.71
12/04/2025	0.17	0.33	0.41	0.05	0.30	0.08	0.48
13/04/2025	-	0.37	0.27	0.05	0.23	0.04	0.53
14/04/2025	-	0.61	0.27	0.05	0.39	0.03	0.66
15/04/2025	0.28	-	0.59	0.05	0.22	0.08	0.52
16/04/2025	-	0.55	0.29	0.04	0.20	0.25	0.46
17/04/2025	-	0.18	0.16	0.04	0.19	0.09	0.52
18/04/2025	-	-	0.28	0.06	0.18	0.05	0.56
19/04/2025	-	-	0.28	0.04	0.20	0.07	0.54
20/04/2025	-	-	0.31	0.05	0.19	0.09	0.64
21/04/2025	-	-	0.36	0.05	0.19	0.10	0.51
22/04/2025	-	0.07	0.50	0.06	0.20	0.06	0.35
23/04/2025	-	-	0.41	0.09	0.19	0.03	0.62
24/04/2025	0.43	0.14	0.28	0.06	0.20	0.02	0.33
25/04/2025	0.56	-	0.19	0.05	0.23	0.08	0.36
26/04/2025	-	-	0.27	0.05	0.21	0.08	0.29
27/04/2025	0.37	-	0.47	0.06	0.22	0.02	0.58
28/04/2025	-	-	0.20	0.06	0.26	0.05	0.54
29/04/2025	0.46	-	0.49	0.05	0.22	0.09	0.71
30/04/2025	-	-	0.22	0.04	0.21	0.07	0.60

- Water not discharged on this day

Note: The EPL discharge volume limit for EPL 43 and 50 is 4.32 megalitres per day. Compliance with this criteria was met during the reporting month.

* The maximum flow rate capacity for Lobs Hole STP/PWTP during the reporting month was 8.45 L/s

^ The maximum flow rate capacity for Tantangara STP/PWTP during the reporting month was 11.34 L/s

-- Water not discharged on this day

Snowy Hydro 2.0 Main Works

Monthly EPL Sampling: 01-30 April 2025 - Discharge Water

Analyte	Unit	Limit of Reporting	Water Quality Objective Value*	EPL 41	EPL 43	EPL 44	EPL 45	EPL 47	EPL 48	EPL 49	EPL 50
Flow Rate				**23/04/2025**							**27/04/2025**
Inflow#	**ML/day**	-	-	-	0.0000	0.3093	0.0545	0.2226	0.0815	0.5803	-
Outflow#	**ML/day**	-	4.32 (EPL 43 / 50)	-	-	-	-	-	-	-	-
Field											
pH	**pH Unit**	-	6.5-8.5	7.63	-	-	-	-	-	-	7.71
Electrical Conductivity	**µS/cm**	-	700 (EPL 41) / 200 (EPL 50)	9.4	-	-	-	-	-	-	19.1
Oxidation Reduction Potential	**mV**	-	No Water Quality Objective Value	156	-	-	-	-	-	-	97.8
Temperature	**°C**	-	15	19.91	-	-	-	-	-	-	16.7
Dissolved Oxygen	**% saturation**	-	No Water Quality Objective Value	56	-	-	-	-	-	-	88.8
Turbidity	**NTU**	-	<25	0.24	-	-	-	-	-	-	0.58
Laboratory analytes											
Total suspended solids	**mg/L**	5	5/10	<5	-	-	-	-	-	-	<5
Hardness as $CaCO_3$ (filtered)	**mg/L**	1	No Water Quality Objective Value	<1	-	-	-	-	-	-	<1
Nutrients											
Ammonia as N	**µg/L**	10	200/2000^	20	-	-	-	-	-	-	<10
Nitrite + Nitrate as N (NOx)	**µg/L**	10	10	80	-	-	-	-	-	-	10
Kjeldahl Nitrogen Total	**µg/L**	100	No Water Quality Objective Value	<100	-	-	-	-	-	-	<100
Nitrogen (Total)	**µg/L**	100	350/-^	<100	-	-	-	-	-	-	<100
Reactive Phosphorus	**µg/L**	1	No Water Quality Objective Value	<1	-	-	-	-	-	-	<10
Phosphorus (Total)	**µg/L**	10	100/300^	<1	-	-	-	-	-	-	20
Inorganics											
Cyanide Total	**µg/L**	4	No Water Quality Objective Value	<4	-	-	-	-	-	-	<4
Hydrocarbons											
Oil and Grease	**mg/L**	1	2/5^	<1.0	-	-	-	-	-	-	<1.0
Metals											
Aluminium (dissolved)	**µg/L**	5	55	<5	-	. -	-	-	-	-	<5
Arsenic (dissolved)	**µg/L**	0.2	13	<0.2	-	. -	-	-	-	-	<0.2
Chromium (III+VI) (dissolved)	**µg/L**	0.2	1	<0.2	-	. -	-	-	-	-	<0.2
Copper (dissolved)	**µg/L**	0.5	14	<0.5	-	. -	-	-	-	-	0.6
Iron (dissolved)	**µg/L**	2	300	<2	-	. -	-	-	-	-	<2
Lead (dissolved)	**µg/L**	0.1	3.4	<0.1	-	. -	-	-	-	-	<0.1
Manganese (dissolved)	**µg/L**	0.5	1,900	<0.5	-	. -	-	-	-	-	<0.5
Nickel (dissolved)	**µg/L**	0.5	11	<0.5	-	. -	-	-	-	-	<0.5
Silver (dissolved)	**µg/L**	0.01	0.05	<0.01	-	. -	-	-	-	-	<0.01
Zinc (dissolved)	**µg/L**	1	8	<1	-	-	-	-	-	-	5
Biological											
Faecal Coliforms	**CFU/100mL**	1	10/100^	<1	-	-	-	-	-	-	<1
Biological Oxygen Demand	**mg/L**	2	5	<2	-	-	-	-	-	-	<2

Note: Treated water was not being discharged at Talbingo Reservoir at the time of EPL sampling.
There is no 100th percentile limit for Nitrogen (Total).

* Water Quality Objective values Treated Water reference the predicted values for physical and chemical stressors from the treatment plant as presented in the Main Works EIS.

\- Samples not required

^ 90 Percentile concentration limit/100 Percentile limit

Inflows to STP and CWTP do not directly correspond to outflow at RO as much of the water is reused on site

Snowy Hydro 2.0 Main Works
Monthly EPL Sampling: 01-31 May 2025 - Surface Water

Analyte	Unit	Limit of Reporting	Water Quality Objective Value*	EPL5	EPL6	EPL8	EPL9	EPL12	EPL14	EPL15	EPL16	EPL24	EPL26	EPL27	EPL30	EPL31	EPL33	EPL34	EPL35	EPL36	EPL37	EPL52	EPL53	EPL54	EPL55	EPL67	EPL71	EPL84	EPL85	EPL86	EPL98	EPL99	EPL100	EPL101	EPL106	EPL110	EPL118	EPL120	EPL122
Field				7/05/2025	7/05/2025	7/05/2025	7/05/2025	7/05/2025	7/05/2025	7/05/2025	7/05/2025	3/05/2025	2/05/2025	18/05/2025	21/05/2025	21/05/2025	21/05/2025	21/05/2025	21/05/2025	27/05/2025	27/05/2025	Dry	Dry	Dry	Dry	Dry	Dry	23/05/2025	5/05/2025	24/05/2025	24/05/2025	Dry	2/05/2025	23/05/2025	2/06/2025	3/05/2025	Dry	Dry	Dry	28/05/2025
pH	-	-	6.5-8	8.17	8.12	8.11	8.01	8.17	8.13	8.14	8.08	6.71	8	5.92	8.09	7.78	7.59	7.52	7.43	6.83	7.28	Dry	Dry	Dry	Dry	Dry	Dry	7.7	9.18	8.97	8.39	Dry	10.62	8.62	9.06	8.92	Dry	Dry	Dry	8.64
Electrical Conductivity	µS/cm	-	30-350	135	130	138	141	135	138	139	142	956	29	21	32	21	21	23	22	47	60	Dry	Dry	Dry	Dry	Dry	Dry	216	969	730	929	Dry	354	541	635	1460	Dry	Dry	Dry	658
Oxidation Reduction Potential	mV	-	No Water Quality Objective Value	172	228	47	119	208	234	238	142	205	217	216	205	244	264	277	262	298	305	Dry	Dry	Dry	Dry	Dry	Dry	148	61	133	152	Dry	-13	132	84	151	Dry	Dry	Dry	244
Temperature	°C	-	No Water Quality Objective Value	9.84	8.14	9.99	9.3	9.26	8.54	8.73	8.87	14.55	4.43	6.05	7.5	7.59	9.59	7.2	7.38	8.58	6.77	Dry	Dry	Dry	Dry	Dry	9.9	18.2	12.17	12.32	Dry	10.47	9.72	8.82	11.81	Dry	Dry	Dry	11.64
Dissolved Oxygen	% saturation	-	90-110	81	80.5	70.5	63.9	73.8	73.8	90.3	63.2	54.2	82.6	92.8	92.9	84.4	67.1	82.2	65.8	99.8	101	Dry	Dry	Dry	Dry	Dry	86.9	123.6	50.4	58.7	Dry	60.6	60.9	92.5	90.1	Dry	Dry	Dry	87.5
Turbidity	NTU	-	2-25	0.3	1.1	41.3	7.1	5.8	5.8	0.3	6.2	4.8	9.01	29.4	11.6	8.1	18	5.9	4.5	23.5	15.6	Dry	Dry	Dry	Dry	Dry	1000	1000	1000	448	Dry	63.6	991	89.7	192	Dry	Dry	Dry	499
Laboratory analytes																																							
TSS	mg/L	5	No Water Quality Objective Value	<5	<5	<5	<5	<5	<5	<5	<5	13	<5	<5	<5	<5	7	<5	<5	10	13	Dry	Dry	Dry	Dry	Dry	Dry	656	340	2,100	Dry	27	343	21	44	Dry	Dry	Dry	104
Hardness as CaCO3	mg/L	1	No Water Quality Objective Value	76	72	92	90	88	90	90	81	276	18	16	13	9	9	9	9	13	13	Dry	Dry	Dry	Dry	Dry	Dry	40	41	58	Dry	120	135	205	485	Dry	Dry	Dry	80
Nutrients																																							
Ammonia as N	µg/L	10	13	<10	30	10	10	40	10	<10	30	30	10	<10	10	10	40	20	<10	10	20	Dry	Dry	Dry	Dry	Dry	Dry	30	30	20	Dry	1,980	60	100	20	Dry	Dry	Dry	80
Nitrite + Nitrate as N (NOx)	µg/L	10	15	<10	<10	<10	<10	<10	<10	<10	<10	34,600	<10	<10	20	<10	30	10	<10	70	70	Dry	Dry	Dry	Dry	Dry	Dry	1,200	8,030	7,380	Dry	8,320	12,300	17,600	52,300	Dry	Dry	Dry	6,800
Kjeldahl Nitrogen Total	µg/L	100	No Water Quality Objective Value	<100	<100	<100	<100	<100	<100	<100	<100	7,300	<100	<100	100	<100	600	100	100	500	500	Dry	Dry	Dry	Dry	Dry	Dry	800	5,200	1,000	Dry	3,000	2,600	5,600	12,800	Dry	Dry	Dry	500
Nitrogen (Total)	µg/L	100	250	<100	<100	<100	<100	<100	<100	<100	<100	41,900	<100	<100	100	<100	600	100	100	600	600	Dry	Dry	Dry	Dry	Dry	Dry	2,000	13,200	8,400	Dry	11,300	14,900	23,200	65,100	Dry	Dry	Dry	7,300
Reactive Phosphorus	µg/L	1	15	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	Dry	Dry	Dry	Dry	Dry	Dry	20	<10	20	Dry	<10	10	<10	<10	Dry	Dry	Dry	<10
Phosphorus (Total)	µg/L	10	20	20	50	10	50	20	10	40	40	<10	10	<10	10	20	50	<10	<10	40	40	Dry	Dry	Dry	Dry	Dry	Dry	1,350	1,110	1,380	Dry	20	540	30	<10	Dry	Dry	Dry	110
Inorganics																																							
Cyanide Total	µg/L	4	4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	Dry	Dry	Dry	Dry	Dry	Dry	<4	<4	<4	Dry	46	<4	12	<4	Dry	Dry	Dry	<4
Hydrocarbons																																							
Oil and Grease	mg/L	1	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	Dry	Dry	Dry	Dry	Dry	Dry	<1.0	<1.0	<1.0	Dry	<1.0	<1.0	<1.0	<1.0	Dry	Dry	Dry	<1.0
Metals																																							
Aluminium (total)	µg/L	5	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	34,900	-	-	-	-	-	-	-	-	-	-	-
Aluminium (dissolved)	µg/L	5	27	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	10	10	25	10	9	114	119	Dry	Dry	Dry	Dry	Dry	Dry	13	8	8	Dry	44	13	9	8	Dry	Dry	Dry	8
Arsenic (total)	µg/L	0.2	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.8	-	-	-	-	-	-	-	-	-	-	-
Arsenic (dissolved)	µg/L	0.2	0.8	0.7	0.2	0.6	0.6	0.6	0.6	0.6	0.6	0.3	<0.2	<0.2	<0.2	<0.2	0.4	<0.2	<0.2	0.4	0.5	Dry	Dry	Dry	Dry	Dry	Dry	0.5	20.4	16.3	Dry	1.2	1.8	2.3	2.1	Dry	Dry	Dry	0.6
Chromium (III+VI) (total)	µg/L	0.2	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	62.2	-	-	-	-	-	-	-	-	-	-	-
Chromium (III+VI) (dissolved)	µg/L	0.2	0.01	0.2	<0.2	<0.2	0.2	0.2	0.2	0.2	<0.2	0.2	0.4	0.3	<0.2	<0.2	<0.2	<0.2	<0.2	0.5	0.5	Dry	Dry	Dry	Dry	Dry	Dry	0.8	12.7	13.2	Dry	56.9	5.9	11.1	1.6	Dry	Dry	Dry	0.6
Copper (total)	µg/L	0.5	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	54.7	-	-	-	-	-	-	-	-	-	-	-
Copper (dissolved)	µg/L	0.5	1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.9	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	0.6	Dry	Dry	Dry	Dry	Dry	Dry	0.9	5.8	1.9	Dry	<0.5	1.1	3.1	<0.5	Dry	Dry	Dry	1.3
Iron (total)	µg/L	2	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	44,400	-	-	-	-	-	-	-	-	-	-	-
Iron (dissolved)	µg/L	2	300	5	11	5	7	4	4	6	6	2	18	10	35	28	127	92	97	332	324	Dry	Dry	Dry	Dry	Dry	Dry	86	35	3	Dry	<2	<2	<2	3	Dry	Dry	Dry	23
Lead (total)	µg/L	0.1	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18.7	-	-	-	-	-	-	-	-	-	-	-
Lead (dissolved)	µg/L	0.1	1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	Dry	Dry	Dry	Dry	Dry	Dry	<0.1	0.3	0.1	Dry	<0.1	<0.1	0.1	<0.1	Dry	Dry	Dry	0.6
Manganese (total)	µg/L	0.5	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,020	-	-	-	-	-	-	-	-	-	-	-
Manganese (dissolved)	µg/L	0.5	1,200	1.3	3.5	1.2	2.9	0.5	0.7	1.3	1.5	309	2.6	0.9	2.9	1.4	1.0	3.5	6.7	102	14.4	Dry	Dry	Dry	Dry	Dry	Dry	18.0	1.3	1.4	Dry	<0.5	7.9	12.8	<0.5	Dry	Dry	Dry	36.0
Nickel (total)	µg/L	0.5	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	110	-	-	-	-	-	-	-	-	-	-	-
Nickel (dissolved)	µg/L	0.5	8	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	3.7	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.9	0.8	Dry	Dry	Dry	Dry	Dry	Dry	0.9	2.0	0.9	Dry	<0.5	1.0	1.9	1.8	Dry	Dry	Dry	1.3
Silver (total)	µg/L	0.01	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.04	-	-	-	-	-	-	-	-	-	-	-
Silver (dissolved)	µg/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	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	Dry	Dry	Dry	Dry	Dry	Dry	<0.01	<0.01	<0.01	Dry	0.01	<0.01	<0.01	<0.01	Dry	Dry	Dry	<0.01
Zinc (total)	µg/L	1	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	116	-	-	-	-	-	-	-	-	-	-	-
Zinc (dissolved)	µg/L	1	2.4	<1	<1	<1	<1	<1	<1	<1	<1	9	<1	<1	<1	<1	<1	<1	<1	2	1	Dry	Dry	Dry	Dry	Dry	Dry	8	3	<1	Dry	<1	<1	3	<1	Dry	Dry	Dry	2

* Water Quality Objective values for surface water refer to the default trigger values for physical and chemical stressors in south-east Australia (upland rivers) for the protection of 99% of aquatic species ANZECC / ARMCANZ (2018), they are not pollutant limits imposed by EPL 21266.
- Samples not required