



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.

The publication of this pollution monitoring data is carried out in accordance with section 66 (6) of the Protection of the Environment Operations Act 1997 (NSW).

Snowy Hydro Limited gives no warranty or representation regarding the data suitability for any particular purpose.

Snowy Hydro Limited excludes all liability to any person for loss or damage of any kind (however caused, including but not limited to by negligence) arising whether directly or indirectly from or relating in any way to the use of this data, whether in whole or in part.



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

Analyte	Unit	Limit of Reporting	Water Quality Objective Value*
Physicochemical			
pH	pH Unit	-	6.5-8
Electrical Conductivity	µS/cm	-	30-350
Oxidation Reduction Potential	mV	-	No Water Quality Objective Value
Temperature	°C	-	No Water Quality Objective Value
Dissolved Oxygen	% saturation	-	No Water Quality Objective Value
Turbidity	NTU	-	No Water Quality Objective Value
Laboratory analyses			
TSS	mg/L	5	No Water Quality Objective Value
Hardness as CaCO3	mg/L	1	No Water Quality Objective Value
Nutrients			
Ammonia as N	µg/L	10	13
Nitrite + Nitrate as N (NOx)	µg/L	10	15
Kjeldahl Nitrogen Total	µg/L	100	No Water Quality Objective Value
Nitrogen (Total)	µg/L	100	250
Reactive Phosphorus	µg/L	1	15
Phosphorus (Total)	µg/L	10	20
Inorganics			
Cyanide Total	µg/L	4	4
Hydrocarbons			
Oil and Grease	mg/L	1	5
Metals			
Aluminium (total)	µg/L	5	No Water Quality Objective Value
Aluminium (dissolved)	µg/L	5	27
Arsenic (total)	µg/L	0.2	No Water Quality Objective Value
Arsenic (dissolved)	µg/L	0.2	0.8
Chromium (III-VI) (total)	µg/L	0.2	No Water Quality Objective Value
Chromium (III-VI) (dissolved)	µg/L	0.2	0.01
Copper (total)	µg/L	0.5	No Water Quality Objective Value
Copper (dissolved)	µg/L	0.5	1
Iron (total)	µg/L	2	No Water Quality Objective Value
Iron (dissolved)	µg/L	2	300
Lead (total)	µg/L	0.1	No Water Quality Objective Value
Lead (dissolved)	µg/L	0.1	0.1
Manganese (total)	µg/L	0.5	No Water Quality Objective Value
Manganese (dissolved)	µg/L	0.5	1,200
Nickel (total)	µg/L	0.5	No Water Quality Objective Value
Nickel (dissolved)	µg/L	0.5	8
Silver (total)	µg/L	0.01	No Water Quality Objective Value
Silver (dissolved)	µg/L	0.01	0.02
Zinc (total)	µg/L	1	No Water Quality Objective Value
Zinc (dissolved)	µg/L	1	2.4

* 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.

EPL56	EPL57	EPL58	EPL68	EPL69	EPL70	EPL72	EPL73	EPL80	EPL81	EPL82	EPL83	EPL87	EPL88	EPL89	EPL90	EPL91	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	
7.32	7.9	5.83	6.1	6.36	6.45	4.87	6.54	6.77	6.61	6.17	6.61	6.17	6.85	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	
242	248	1020	34	31	35	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	
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	110	-49	
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	18.99	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	
21.6	23.5	20.6	80.9	76.5	54.2	16.1	54.8	18.4	19	13.6	16.6	16.7	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	
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	81.3	65.5	279	4.1	42.7	4.2	60.9	3.5	752	7.1	278	1000	576	
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	
154	156	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	
10	<10	50	<10	30	20	20	20	<10	100	100	<10	220	310	20	20	10	<10	30	<10	10	<10	10	30	10	<10	<10	<10	<10	<10	<10	<10	
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	
<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	
200	300	87,400	600	200	1,200	<100	<100	200	400	200	200	10,000	500	200	200	300	300	<100	100	<100	26,800	33,800	300	200	800	300	3,000	<1,000	<100	<100	<2,000	<100
15	19	11	<1	1	17	21	13	3	4	2	6	6	5	7	10	20	<1	26	34	12	4	21	15	10	8	3	4	11	8	17	27	
60	70	60	50	140	1,230	50	30	40	180	20	20	3,150	50	40	370	50	70	750	850	1,080	150	800	30	40	90	20	160	20	80	940	460	
<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	
<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	
144	356	2,119	336	1,310	18,300	477	540	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<5	<5	5	<5	6	<5	8	<5	<5	<5	8	<5	<5	<5	<5	10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
<0.2	2.3	3.1	<0.2	0.5	1.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<0.2	2.2	<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	<0.2	0.4	0.7	0.4	0.6	0.5	
0.4	0.8	5.9	0.9	1.6	8.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<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	<0.2	
8.4	13.4	3.8	0.8	2.2	18.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.7	2.2	0.8	<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	<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	
171	368	4,300	318	1,060	12,400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<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	<2	<2	<2	<2	<2	<2
1.4	0.9	25.1	0.1	0.7	4.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<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	
18.0	97.7	494	117	60.8	158	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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	
<0.5	1.4	12.3	6.0	1.8	5.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<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	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	1.0	
<0.01	<0.01	0.12	<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	<0.01	<0.01	<0.01	
5	3	24	41	6	22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	<1	12	34	2	<1	6	<1	<1	<1	<1	<1	<1	<1	<1	9	4	17	<1	6	32	2	35	<1	<1	1	60	5	4	<1	3	<1	



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*
Field			
pH	pH Unit	-	6.5-8
Electrical Conductivity	µS/cm	-	20-30
Oxidation Reduction Potential	mV	-	No Water Quality Objective Value
Temperature	°C	-	No Water Quality Objective Value
Dissolved Oxygen	% saturation	-	90-110
Turbidity	NTU	-	1-20
Laboratory analytes			
Total suspended solids	mg/L	5	No Water Quality Objective Value
Hardness as CaCO ₃ (filtered)	mg/L	1	No Water Quality Objective Value
Nutrients			
Ammonia as N	µg/L	10	10
Nitrite + Nitrate as N (NO _x)	µg/L	10	10
Kjeldahl Nitrogen Total	µg/L	100	No Water Quality Objective Value
Nitrogen (Total)	µg/L	100	350
Reactive Phosphorus	µg/L	1	5
Phosphorus (Total)	µg/L	10	10
Inorganics			
Cyanide Total	µg/L	4	7
Hydrocarbons			
Oil and Grease	mg/L	1	5
Metals			
Aluminium (dissolved)	µg/L	5	55
Arsenic (dissolved)	µg/L	0.2	13
Chromium (III+VI) (dissolved)	µg/L	0.2	1
Copper (dissolved)	µg/L	0.5	14
Iron (dissolved)	µg/L	2	300
Lead (dissolved)	µg/L	0.1	3.4
Manganese (dissolved)	µg/L	0.5	1,900
Nickel (dissolved)	µg/L	0.5	11
Silver (dissolved)	µg/L	0.01	0.05
Zinc (dissolved)	µg/L	1	8
Biological			
Faecal Coliforms	CFU/100mL	1	10/100^
Biochemical Oxygen Demand	mg/L	2	1/5^

EPL10	EPL11	EPL28	EPL29	EPL32	EPL38	EPL39	EPL40	EPL46	EPL51	EPL107	EPL108	EPL109
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
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
97	79	30	25	26	38	27	22.4	26	25	49	43	85
184	177	212	241	-48	200	201	199.1	244	238	170	169	175
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
63.5	63.7	109.1	92.4	91.9	74.6	90	100	90	91	71.8	69.4	81.3
0	1	8.6	8.9	7.1	30.6	9.6	4.13	6.3	7.4	3.1	3.4	6.3
<5	<5	<5	<5	<5	34	<5	<5	<5	5	<5	<5	17
43	38	9	9	9	9	13	9	9	<1	17	14	14
20	50	<10	<10	40	<10	10	10	<10	<10	<10	10	<10
<10	5	<2	4	<10	8	10	4	2	<10	<2	8	<2
200	200	300	300	400	400	200	300	400	300	200	200	200
200	200	300	300	400	400	200	300	400	300	200	200	200
2	<1	4	1	4	3	3	4	4	4	5	2	2
30	<10	40	90	60	80	60	50	60	50	<10	10	<10
<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
<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	<5	30	30	30	31	27	25	30	33	6	<5	<5
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
<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
<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
36	16	278	273	280	285	161	77	278	310	6	6	5
<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
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
<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
<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
590	2,700	100	-	-	-	-	-	-	80	-	-	-
<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 faecal coliforms

^ 90th percentile concentration limits / 100 percentile concentration limits

- Sample not required at this location.

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Oxidation Reduction Potential	mV	-	No Water Quality Objective Value
Temperature	°C	-	No Water Quality Objective Value
Dissolved Oxygen	% saturation	-	90-110
Turbidity	NTU	-	2-25
Laboratory analyses			
TSS	mg/L	5	No Water Quality Objective Value
Hardness as CaCO3	mg/L	1	No Water Quality Objective Value
Nutrients			
Ammonia as N	µg/L	10	13
Nitrite + Nitrate as N (NOx)	µg/L	10	15
Kjeldahl Nitrogen Total	µg/L	100	No Water Quality Objective Value
Nitrogen (Total)	µg/L	100	250
Reactive Phosphorus	µg/L	1	15
Phosphorus (Total)	µg/L	10	20
Inorganics			
Cyanide Total	µg/L	4	4
Hydrocarbons			
Oil and Grease	mg/L	1	5
Metals			
Aluminium (total)	µg/L	5	No Water Quality Objective Value
Aluminium (dissolved)	µg/L	5	27
Arsenic (total)	µg/L	0.2	No Water Quality Objective Value
Arsenic (dissolved)	µg/L	0.2	0.8
Chromium (III+VI) (total)	µg/L	0.2	No Water Quality Objective Value
Chromium (III+VI) (dissolved)	µg/L	0.2	0.01
Copper (total)	µg/L	0.5	No Water Quality Objective Value
Copper (dissolved)	µg/L	0.5	1
Iron (total)	µg/L	2	No Water Quality Objective Value
Iron (dissolved)	µg/L	2	300
Lead (total)	µg/L	0.1	No Water Quality Objective Value
Lead (dissolved)	µg/L	0.1	1
Manganese (total)	µg/L	0.5	No Water Quality Objective Value
Manganese (dissolved)	µg/L	0.5	1,200
Nickel (total)	µg/L	0.5	No Water Quality Objective Value
Nickel (dissolved)	µg/L	0.5	8
Silver (total)	µg/L	0.01	No Water Quality Objective Value
Silver (dissolved)	µg/L	0.01	0.02
Zinc (total)	µg/L	1	No Water Quality Objective Value
Zinc (dissolved)	µg/L	1	2.4

* 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

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	
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	
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	
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	
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	
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	
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	
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	
<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	
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	
<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	
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	
<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	
<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	
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	
<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	
<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	
<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	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	82	Dry	Dry	Dry	Dry	Dry	-	-	-	-	-	-	-	-	-	-	-		
<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	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.1	Dry	Dry	Dry	Dry	Dry	-	-	-	-	-	-	-	-	-	-	-		
0.5	0.3	0.5	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
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.6	Dry	Dry	Dry	Dry	Dry	-	-	-	-	-	-	-	-	-	-	-		
<0.2	<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	1.5	Dry	Dry	Dry	Dry	Dry	51.5	Dry	Dry	Dry	12.2	4.5	14.5	2.5	Dry	Dry	Dry	Dry	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.7	Dry	Dry	Dry	Dry	Dry	-	-	-	-	-	-	-	-	-	-	-		
<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	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	51	Dry	Dry	Dry	Dry	Dry	-	-	-	-	-	-	-	-	-	-	-		
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	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	Dry	Dry	Dry	Dry	Dry	-	-	-	-	-	-	-	-	-	-	-		
<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	Dry	Dry	Dry	Dry	Dry	<0.1	Dry	Dry	<0.1	<0.1	<0.1	<0.1	Dry	Dry	Dry	Dry	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.8	Dry	Dry	Dry	Dry	Dry	-	-	-	-	-	-	-	-	-	-	-		
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	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	Dry	Dry	Dry	Dry	Dry	-	-	-	-	-	-	-	-	-	-	-		
<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	<0.5	Dry	Dry	Dry	Dry	Dry	0.6	Dry	Dry	<0.5	0.9	0.9	2.2	Dry	Dry	Dry	Dry	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.01	Dry	Dry	Dry	Dry	Dry	-	-	-	-	-	-	-	-	-	-	-		
<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	Dry	Dry	Dry	Dry	Dry	<0.01	Dry	Dry	<0.01	<0.01	<0.01	<0.01	Dry	Dry	Dry	Dry	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	Dry	Dry	Dry	Dry	Dry	-	-	-	-	-	-	-	-	-	-	-		
<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	

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

Analyte	Unit	Limit of Reporting	Water Quality Objective Value*
Flow Rate			
Inflow [#]	ML/day	-	-
Outflow [#]	ML/day	-	4.32 (EPL 43 / 50)
Field			
pH	pH Unit	-	6.5-8.5
Electrical Conductivity	µS/cm	-	700 (EPL 41) / 200 (EPL 50)
Oxidation Reduction Potential	mV	-	No Water Quality Objective Value
Temperature	°C	-	15
Dissolved Oxygen	% saturation	-	No Water Quality Objective Value
Turbidity	NTU	-	<25
Laboratory analytes			
Total suspended solids	mg/L	5	5/10
Hardness as CaCO ₃ (filtered)	mg/L	1	No Water Quality Objective Value
Nutrients			
Ammonia as N	µg/L	10	200/2000 [^]
Nitrite + Nitrate as N (NO _x)	µg/L	10	10
Kjeldahl Nitrogen Total	µg/L	100	No Water Quality Objective Value
Nitrogen (Total)	µg/L	100	350/- [^]
Reactive Phosphorus	µg/L	1	No Water Quality Objective Value
Phosphorus (Total)	µg/L	10	100/300 [^]
Inorganics			
Cyanide Total	µg/L	4	No Water Quality Objective Value
Hydrocarbons			
Oil and Grease	mg/L	1	2/5 [^]
Metals			
Aluminium (dissolved)	µg/L	5	55
Arsenic (dissolved)	µg/L	0.2	13
Chromium (III+VI) (dissolved)	µg/L	0.2	1
Copper (dissolved)	µg/L	0.5	14
Iron (dissolved)	µg/L	2	300
Lead (dissolved)	µg/L	0.1	3.4
Manganese (dissolved)	µg/L	0.5	1,900
Nickel (dissolved)	µg/L	0.5	11
Silver (dissolved)	µg/L	0.01	0.05
Zinc (dissolved)	µg/L	1	8
Biological			
Faecal Coliforms	CFU/100mL	1	10/100 [^]
Biological Oxygen Demand	mg/L	2	5

EPL 41	EPL 43	EPL 44	EPL 45	EPL 47	EPL 48	EPL 49	EPL 50
22/01/2025							
-	0.0000	0.3858	0.0478	0.2103	0.0889	0.7156	-
-	-	-	-	-	-	-	-
6.92	-	-	-	-	-	-	7.44
161	-	-	-	-	-	-	60.7
170	-	-	-	-	-	-	176.5
25.46	-	-	-	-	-	-	20.4
63.1	-	-	-	-	-	-	87.2
20	-	-	-	-	-	-	22.49
<5	-	-	-	-	-	-	<5
<1	-	-	-	-	-	-	<1
3,030	-	-	-	-	-	-	200
310	-	-	-	-	-	-	220
5,200	-	-	-	-	-	-	600
5,500	-	-	-	-	-	-	800
<1	-	-	-	-	-	-	<1
10	-	-	-	-	-	-	20
<4	-	-	-	-	-	-	<4
<1.0	-	-	-	-	-	-	<1.0
6	-	-	-	-	-	-	<5
<0.2	-	-	-	-	-	-	<0.2
<0.2	-	-	-	-	-	-	<0.2
<0.5	-	-	-	-	-	-	<0.5
<2	-	-	-	-	-	-	<2
<0.1	-	-	-	-	-	-	<0.1
<0.5	-	-	-	-	-	-	1.1
<0.5	-	-	-	-	-	-	<0.5
<0.01	-	-	-	-	-	-	<0.01
<1	-	-	-	-	-	-	1
<1	-	-	-	-	-	-	<1
<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



[illegible]

Date
1/01/2025
2/01/2025
3/01/2025
4/01/2025
5/01/2025
6/01/2025
7/01/2025
8/01/2025
9/01/2025
10/01/2025
11/01/2025
12/01/2025
13/01/2025
14/01/2025
15/01/2025
16/01/2025
17/01/2025
18/01/2025
19/01/2025
20/01/2025
21/01/2025
22/01/2025
23/01/2025
24/01/2025
25/01/2025
26/01/2025
27/01/2025
28/01/2025
29/01/2025
30/01/2025
31/01/2025

EPL 44	EPL 45	EPL 47	EPL 48	EPL 49
Discharge volume (Megalitres)				
0.40	0.04	0.15	0.05	0.62
0.43	0.03	0.15	0.07	0.85
0.62	0.04	0.18	0.06	0.62
0.47	0.05	0.16	0.07	0.89
0.29	0.01	0.18	0.07	0.72
0.51	0.04	0.19	0.08	0.52
0.27	0.05	0.13	0.06	0.69
0.57	0.03	0.32	0.07	0.42
0.37	0.05	0.14	0.06	0.85
0.72	0.07	0.17	0.07	0.60
0.28	0.05	0.20	0.07	0.55
0.34	0.05	0.24	0.08	0.54
0.54	0.05	0.20	0.09	0.71
0.40	0.05	0.34	0.08	0.90
0.61	0.08	0.19	0.18	0.86
0.49	0.01	0.23	0.18	0.65
0.67	0.05	0.19	0.08	0.63
0.58	0.04	0.15	0.08	0.72
0.65	0.06	0.21	0.07	0.57
0.26	0.07	0.23	0.08	0.63
0.19	0.06	0.21	0.18	0.75
0.17	0.05	0.20	0.01	0.79
0.31	0.07	0.28	0.09	0.94
0.06	0.04	0.16	0.07	0.72
0.27	0.05	0.22	0.08	0.82
0.17	0.05	0.22	0.09	0.90
0.20	0.04	0.21	0.08	0.70
0.19	0.04	0.19	0.18	0.60
0.19	0.05	0.23	0.08	0.65
0.10	0.04	0.25	0.08	0.61
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 scheduled 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.

The publication of this pollution monitoring data is carried out in accordance with section 66 (6) of the Protection of the Environment Operations Act 1997 (NSW).
Snowy Hydro Limited gives no warranty or representation regarding the data suitability for any particular purpose.

Snowy Hydro Limited excludes all liability to any person for loss or damage of any kind (however caused, including but not limited to by negligence) arising whether directly or indirectly from or relating in any way to the use of this data, whether in whole or in part.

Monthly EPL Sampling: 01-28 February 2025 - Groundwater

* 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 95% of aquatic species ANZECC / ARMCANZ (2000), they are not pollutant limits imposed by EPA 20266.



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*
Field			
pH	pH Unit	-	6.5-8
Electrical Conductivity	µS/cm	-	20-30
Oxidation Reduction Potential	mV	-	No Water Quality Objective Value
Temperature	°C	-	No Water Quality Objective Value
Dissolved Oxygen	% saturation	-	90-110
Turbidity	NTU	-	1-20
Laboratory analytes			
Total suspended solids	mg/L	5	No Water Quality Objective Value
Hardness as CaCO ₃ (filtered)	mg/L	1	No Water Quality Objective Value
Nutrients			
Ammonia as N	µg/L	10	10
Nitrite + Nitrate as N (NO ₃)	µg/L	10	10
Kjeldahl Nitrogen Total	µg/L	100	No Water Quality Objective Value
Nitrogen (Total)	µg/L	100	350
Reactive Phosphorus	µg/L	1	5
Phosphorus (Total)	µg/L	10	10
Inorganics			
Cyanide Total	µg/L	4	7
Hydrocarbons			
Oil and Grease	mg/L	1	5
Metals			
Aluminium (dissolved)	µg/L	5	55
Arsenic (dissolved)	µg/L	0.2	13
Chromium (III+VI) (dissolved)	µg/L	0.2	1
Copper (dissolved)	µg/L	0.5	14
Iron (dissolved)	µg/L	2	300
Lead (dissolved)	µg/L	0.1	3.4
Manganese (dissolved)	µg/L	0.5	1,900
Nickel (dissolved)	µg/L	0.5	11
Silver (dissolved)	µg/L	0.01	0.05
Zinc (dissolved)	µg/L	1	8
Biological			
Faecal Coliforms	CFU/100mL	1	10/100 [^]
Biochemical Oxygen Demand	mg/L	2	1/5 [^]

EPL10	EPL11	EPL28	EPL29	EPL32	EPL38	EPL39	EPL40	EPL46	EPL51	EPL107	EPL108	EPL109
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
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
78	56	28	26	26	28	30	30.9	27	27	34	32	31
205	209	225	227	230	101	233	168	220	86	221	204	151
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
75.4	69.2	56.9	58.3	65.2	78.4	91.5	88.4	62.9	57.5	69	82.8	80
0.5	0	13	9.3	9	10.3	18.7	5.16	8	9.1	0	0	23.5
<5	<5	8	<5	<5	6	8	<5	<5	<5	<5	<5	<5
43	31	9	9	9	5	7	9	9	9	17	17	14
40	130	<10	20	<10	<10	<10	20	<10	40	60	20	40
30	<10	20	<10	<10	<10	<10	<10	20	<10	<10	<10	20
300	400	300	400	400	300	200	300	300	400	200	200	200
300	400	300	400	400	300	200	300	300	400	200	200	200
<10	<10	10	10	10	<10	<10	<10	50	<10	<10	<10	<10
30	40	40	40	40	30	20	50	40	70	<10	10	<10
<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	10	<10
<5	<5	26	32	30	24	37	25	30	31	<5	<5	<5
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
<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
<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
26	12	388	246	247	186	141	104	252	251	6	4	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
<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
<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
<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,900	68	6000	-	-	-	-	-	-	3300	-	-	-
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 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: 01-28 February 2025 - Surface Water

Analyte	Unit	Limit of Reporting	Water Quality Objective Value*
Field			
pH	-	-	6.5-8
Electrical Conductivity	µS/cm	-	30-350
Oxidation Reduction Potential	mV	-	No Water Quality Objective Value
Temperature	°C	-	No Water Quality Objective Value
Dissolved Oxygen	% saturation	-	10-100
Turbidity	NTU	-	2-25
Laboratory analyses			
TSS	mg/L	5	No Water Quality Objective Value
Hardness as CaCO ₃	mg/L	5	No Water Quality Objective Value
Neutrients			
Ammonia as N	µg/L	10	13
Nitrite + Nitrate as N (NO ₂)	µg/L	10	15
Nitrate+Nitrogen Total	µg/L	100	No Water Quality Objective Value
Nitrogen (Total)	µg/L	100	250
Reactive Phosphorus	µg/L	5	15
Phosphorus (Total)	µg/L	10	20
Heavy Metals			
Cyanide Total	µg/L	4	4
Oil and Grease	mg/L	1	5
Metals			
Aluminium (Total)	µg/L	5	No Water Quality Objective Value
Aluminium (Dissolved)	µg/L	5	27
Arsenic (Total)	µg/L	0.2	No Water Quality Objective Value
Arsenic (Dissolved)	µg/L	0.2	0.8
Chromium (Total)	µg/L	0.2	No Water Quality Objective Value
Chromium (Dissolved)	µg/L	0.2	0.05
Copper (Total)	µg/L	0.5	No Water Quality Objective Value
Copper (Dissolved)	µg/L	0.5	1
Iron (Total)	µg/L	2	No Water Quality Objective Value
Lead (Total)	µg/L	0.1	No Water Quality Objective Value
Lead (Dissolved)	µg/L	0.1	1
Manganese (Total)	µg/L	0.5	No Water Quality Objective Value
Manganese (Dissolved)	µg/L	0.5	1,200
Nickel (Total)	µg/L	0.5	No Water Quality Objective Value
Nickel (Dissolved)	µg/L	0.5	8
Silver (Total)	µg/L	0.01	No Water Quality Objective Value
Silver (Dissolved)	µg/L	0.01	0.02
Zinc (Total)	µg/L	1	No Water Quality Objective Value
Zinc (Dissolved)	µg/L	1	2.4

EPL5	EPL6	EPL8	EPL9	EPL12	EPL14	EPL15	EPL16	EPL24	EPL26	EPL27	EPL30	EPL31	EPL33	EPL34	EPL35	EPL36	EPL37	EPL32	EPL33	EPL34	EPL35	EPL67	EPL71	EPL84	EPL85	EPL86	EPL98	EPL99	EPL100	EPL101	EPL106	EPL110	EPL118	EPL120	EPL122		
2/02/25	11/02/25	2/02/25	2/02/25	2/02/25	2/02/25	2/02/25	2/02/25	18/02/25	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		
7.45	8.46	8.38	8.22	7.07	7.84	8.27	8.53	7.17	8.1	8.31	7.89	7.66	7.36	7.69	7.57	7.73	7.83	9.18	Dry	Dry	7.05	Dry	Dry	8.65	9.24	8.45	Dry	8.98	8.44	8.86	8.67	7.54	Dry	Dry	7.79		
163	116	169	155	163	163	163	165	807	77.4	75.2	84.3	86.4	86.7	98.1	94	88.6	71.9	78.9	Dry	Dry	1220	Dry	Dry	441	461	899	Dry	265	187	362	1270	67	Dry	Dry	778		
267	38	206	212	288	232	215	199	178	165	148	212	219	241	222	225	115	165	178	Dry	Dry	142	Dry	Dry	164	143	-28	Dry	47	89	65	95	140	Dry	Dry	173		
19.81	22.46	21.2	21.23	19.61	20.25	20.92	22.62	14.46	22.25	20.34	16.93	17.42	20.73	16.42	16.42	22.57	24.93	24.81	Dry	Dry	19.8	Dry	Dry	20.64	19.7	21.13	Dry	16.14	16.96	16.06	25.78	13.87	Dry	Dry	14.06		
79.9	67.7	67.8	79.3	74.3	75.1	66.5	77.4	75.5	77.4	75.2	84.3	86.4	86.7	98.1	94	88.6	71.9	78.9	Dry	Dry	68.5	Dry	Dry	74.4	12.5	74.8	Dry	66.6	67.5	66.9	74.3	95.8	Dry	Dry	64.1		
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		
<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	5	19	Dry	Dry	<5	Dry	Dry	744	804	176	Dry	25	27	58	<5	<5	Dry	Dry	198	
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	126	125	352	19	Dry	Dry	184		
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	880	20	100	60	<10	Dry	Dry	20		
10	20	80	<10	10	30	10	<10	20,500	10	30	<10	<10	<10	<10	<10	<10	24,900	Dry	Dry	61,800	Dry	Dry	1,000	2,000	5,940	Dry	4,000	20,500	25,900	40,000	40	Dry	Dry	26,200			
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	6,200		
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		
<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	Dry	Dry	<10			
20	20	50	20	40	70	30	20	10	50	30	10	<10	30	20	40	60	30	30	Dry	Dry	60	Dry	Dry	540	360	260	Dry	30	50	80	20	10	Dry	Dry	160		
<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		
<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	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	
<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		
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.9	Dry	Dry	0.8	Dry	-	-	-	Dry	-	-	-	-	-	-	-	-		
0.6	0.4	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	<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		
0.3	<0.2	<0.2	<0.2	0.3	<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		
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.8	Dry	Dry	<0.5	Dry	Dry	-	-	-	Dry	-	-	-	-	-	-	-		
<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	<0.5	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	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.4	Dry	Dry	68	Dry	Dry	-	-	-	Dry	-	-	-	-	-	-	-		
4	43	7	8	4	5	6	7	14	24	27	45	33	242	155	173	353	271	<2	Dry	Dry	<2	Dry	Dry	42	7	6	Dry	<2	<2	<2	<2	12	Dry	Dry	4		
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	Dry	Dry	0.1	Dry	Dry	-	-	-	Dry	-	-	-	-	-	-	-	-		
<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	Dry	Dry	<0.1	<0.1	<0.1	Dry	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	Dry	Dry	<0.1	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.2	Dry	Dry	9.8	Dry	Dry	-	-	-	Dry	-	-	-	-	-	-	-	-		
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		
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	Dry	Dry	1.8	Dry	Dry	-	-	-	Dry	-	-	-	-	-	-	-	-		
<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	<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
<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	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
<1	<1	<1	<1	<1	<1	<1	<1	2	<1	<1	<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 95% of aquatic species ANZECC / ARMCANZ (2018), they are not pollutant limits imposed by EPL 21126.
- 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*
Flow Rate			
Inflow [#]	ML/day	-	-
Outflow [#]	ML/day	-	4.32 (EPL 43 / 50)
Field			
pH	pH Unit	-	6.5-8.5
Electrical Conductivity	µS/cm	-	700 (EPL 41) / 200 (EPL 50)
Oxidation Reduction Potential	mV	-	No Water Quality Objective Value
Temperature	°C	-	15
Dissolved Oxygen	% saturation	-	No Water Quality Objective Value
Turbidity	NTU	-	<25
Laboratory analytes			
Total suspended solids	mg/L	5	5/10
Hardness as CaCO ₃ (filtered)	mg/L	1	No Water Quality Objective Value
Nutrients			
Ammonia as N	µg/L	10	200/2000 [^]
Nitrite + Nitrate as N (NO _x)	µg/L	10	10
Kjeldahl Nitrogen Total	µg/L	100	No Water Quality Objective Value
Nitrogen (Total)	µg/L	100	350/- [^]
Reactive Phosphorus	µg/L	1	No Water Quality Objective Value
Phosphorus (Total)	µg/L	10	100/300 [^]
Inorganics			
Cyanide Total	µg/L	4	No Water Quality Objective Value
Hydrocarbons			
Oil and Grease	mg/L	1	2/5 [^]
Metals			
Aluminium (dissolved)	µg/L	5	55
Arsenic (dissolved)	µg/L	0.2	13
Chromium (III+VI) (dissolved)	µg/L	0.2	1
Copper (dissolved)	µg/L	0.5	14
Iron (dissolved)	µg/L	2	300
Lead (dissolved)	µg/L	0.1	3.4
Manganese (dissolved)	µg/L	0.5	1,900
Nickel (dissolved)	µg/L	0.5	11
Silver (dissolved)	µg/L	0.01	0.05
Zinc (dissolved)	µg/L	1	8
Biological			
Faecal Coliforms	CFU/100mL	1	10/100 [^]
Biological Oxygen Demand	mg/L	2	5

EPL 41	EPL 43	EPL 44	EPL 45	EPL 47	EPL 48	EPL 49	EPL 50
2/2/2025							
-	0.0000	0.1994	0.0523	0.2074	0.0887	0.6811	-
-	-	-	-	-	-	-	-
8.32							
2210	-	-	-	-	-	-	5.14
203	-	-	-	-	-	-	10.8
26.69	-	-	-	-	-	-	224.5
66.3	-	-	-	-	-	-	19.6
9.9	-	-	-	-	-	-	85.7
-	-	-	-	-	-	-	0.8
<5							
106	-	-	-	-	-	-	<5
2,110							
18,300	-	-	-	-	-	-	30
3,300	-	-	-	-	-	-	20
21,600	-	-	-	-	-	-	200
70	-	-	-	-	-	-	200
80	-	-	-	-	-	-	<10
11							
<1.0	-	-	-	-	-	-	<4
16							
3.0	-	-	-	-	-	-	<5
13.3	-	-	-	-	-	-	<0.2
<0.5	-	-	-	-	-	-	<0.2
<2	-	-	-	-	-	-	<0.5
<0.1	-	-	-	-	-	-	<2
2.7	-	-	-	-	-	-	<0.1
<0.5	-	-	-	-	-	-	<0.5
<0.01	-	-	-	-	-	-	<0.5
2	-	-	-	-	-	-	<0.01
<1							
<2	-	-	-	-	-	-	<1
<2							
<1	-	-	-	-	-	-	<2
<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



Date
2/1/2025
2/2/2025
2/3/2025
2/4/2025
2/5/2025
2/6/2025
2/7/2025
2/8/2025
2/9/2025
2/10/2025
2/11/2025
2/12/2025
2/13/2025
2/14/2025
2/15/2025
2/16/2025
2/17/2025
2/18/2025
2/19/2025
2/20/2025
2/21/2025
2/22/2025
2/23/2025
2/24/2025
2/25/2025
2/26/2025
2/27/2025
2/28/2025

[illegible]

EPL 44	EPL 45	EPL 47	EPL 48	EPL 49
Discharge volume (Megalitres)				
0.18	0.04	0.33	0.18	0.50
0.14	0.05	0.28	0.08	0.77
0.17	0.04	0.13	0.08	0.84
0.19	0.05	0.24	0.07	0.76
0.10	0.04	0.21	0.07	0.65
0.19	0.02	0.10	0.08	0.77
0.22	0.09	0.32	0.08	0.71
0.19	0.05	0.25	0.19	0.79
0.21	0.03	0.20	0.07	0.87
0.24	0.09	0.24	0.09	0.65
0.19	0.05	0.24	0.09	0.76
0.19	0.05	0.22	0.09	0.66
0.24	0.05	0.26	0.08	0.86
0.14	0.06	0.17	0.09	0.86
0.20	0.05	0.21	0.19	0.68
0.20	0.06	0.23	0.07	0.48
0.30	0.07	0.21	0.01	0.95
0.30	0.06	0.23	0.08	0.87
0.33	0.06	0.21	0.10	0.77
0.38	0.06	0.26	0.09	0.80
0.17	0.05	0.22	0.09	0.59
0.11	0.05	0.23	0.04	0.40
0.32	0.07	0.21	0.09	0.50
0.27	0.06	0.18	0.10	0.34
0.30	0.08	0.19	0.03	0.83
0.18	0.07	0.17	0.13	0.95
0.17	0.04	0.23	0.07	0.99
0.18	0.10	0.27	0.22	0.84

-- 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.

The publication of this pollution monitoring data is carried out in accordance with section 66 (6) of the Protection of the Environment Operations Act 1997 (NSW).

Snowy Hydro Limited gives no warranty or representation regarding the data suitability for any particular purpose.

Snowy Hydro Limited excludes all liability to any person for loss or damage of any kind (however caused, including but not limited to by negligence) arising whether directly or indirectly from or relating in any way to the use of this data, whether in whole or in part.

Monthly EPL Sampling: 01-31 March 2025 - Groundwater

[illegible]

* 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 EPA 21266.

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*
Field			
pH	pH Unit	-	6.5-8
Electrical Conductivity	µS/cm	-	20-30
Oxidation Reduction Potential	mV	-	No Water Quality Objective Value
Temperature	°C	-	No Water Quality Objective Value
Dissolved Oxygen	% saturation	-	90-110
Turbidity	NTU	-	1-20
Laboratory analytes			
Total suspended solids	mg/L	5	No Water Quality Objective Value
Hardness as CaCO ₃ (filtered)	mg/L	1	No Water Quality Objective Value
Nutrients			
Ammonia as N	µg/L	10	10
Nitrite + Nitrate as N (NO _x)	µg/L	10	10
Kjeldahl Nitrogen Total	µg/L	100	No Water Quality Objective Value
Nitrogen (Total)	µg/L	100	350
Reactive Phosphorus	µg/L	1	5
Phosphorus (Total)	µg/L	10	10
Inorganics			
Cyanide Total	µg/L	4	7
Hydrocarbons			
Oil and Grease	mg/L	1	5
Metals			
Aluminium (dissolved)	µg/L	5	55
Arsenic (dissolved)	µg/L	0.2	13
Chromium [III+VI] (dissolved)	µg/L	0.2	1
Copper (dissolved)	µg/L	0.5	14
Iron (dissolved)	µg/L	2	300
Lead (dissolved)	µg/L	0.1	3.4
Manganese (dissolved)	µg/L	0.5	1,900
Nickel (dissolved)	µg/L	0.5	11
Silver (dissolved)	µg/L	0.01	0.05
Zinc (dissolved)	µg/L	1	8
Biological			
Faecal Coliforms	CFU/100mL	1	10/100*
Biochemical Oxygen Demand	mg/L	2	1/5*

* 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.

EPL10	EPL11	EPL28	EPL29	EPL32	EPL38	EPL39	EPL40	EPL46	EPL51	EPL107	EPL108	EPL109
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
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
102	63	27	26	26	36	29.6	31.7	26	26	40	38	36
191	192	130	140	14	174	664.1	625.5	139	140	193	190	180
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
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
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
<5	<5	<5	<5	<5	<5	<5	<5	<5	5	<5	<5	<5
46	28	9	9	9	9	13	16	9	9	14	14	14
<10	<10	70	<10	<10	20	30	140	90	<10	<10	40	20
<10	<10	10	<10	<10	<10	290	20	10	<10	<10	10	<10
100	100	300	400	400	300	100	200	300	400	100	100	100
100	100	300	400	400	300	400	200	300	400	100	100	100
<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
20	10	20	30	30	20	<10	<10	40	30	20	20	10
<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
<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	<5	12	9	11	40	26	19	10	10	<5	<5	<5
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
<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
<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
20	6	141	90	92	218	98	89	96	91	4	3	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
<0.5	<0.5	0.6	<0.5	<0.5	1.7	3.4	3.4	0.5	<0.5	<0.5	<0.5	<0.5
<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
<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
75	230	7	-	-	-	-	-	-	5	-	-	-
4	3	3	-	-	-	-	-	-	2	-	-	-

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

Analyte	Unit	Limit of Reporting	Water Quality Objective Value*
Field			
pH	-	-	6.5-8
Electrical Conductivity	µS/cm	-	50-300
Oxidation Reduction Potential	mV	-	No Water Quality Objective Value
Temperature	°C	-	No Water Quality Objective Value
Dissolved Oxygen	% saturation	-	90-110
Turbidity	NTU	-	2-25
Laboratory analyses			
TSS	mg/L	5	No Water Quality Objective Value
Hardness as CaCO ₃	mg/L	1	No Water Quality Objective Value
Nutrients			
Ammonia as N	µg/L	10	13
Nitrite + Nitrate as N (NO ₂)	µg/L	10	15
Nitrate Nitrogen Total	µg/L	100	No Water Quality Objective Value
Nitrogen (Total)	µg/L	100	250
Reactive Phosphorus	µg/L	1	15
Phosphorus (Total)	µg/L	10	20
Inorganics			
Cyanide Total	µg/L	4	4
Hydrocarbons			
Oil and Grease	mg/L	1	5
Metals			
Aluminium (total)	µg/L	5	No Water Quality Objective Value
Aluminium (dissolved)	µg/L	5	27
Arsenic (total)	µg/L	0.2	No Water Quality Objective Value
Arsenic (dissolved)	µg/L	0.2	No Water Quality Objective Value
Chromium (III+VI) (total)	µg/L	0.2	No Water Quality Objective Value
Chromium (III+VI) (dissolved)	µg/L	0.2	0.01
Copper (dissolved)	µg/L	0.5	No Water Quality Objective Value
Copper (total)	µg/L	2	No Water Quality Objective Value
Iron (dissolved)	µg/L	2	300
Lead (total)	µg/L	0.1	1
Lead (dissolved)	µg/L	0.1	No Water Quality Objective Value
Manganese (total)	µg/L	0.5	No Water Quality Objective Value
Manganese (dissolved)	µg/L	0.5	1,200
Nickel (total)	µg/L	0.5	8
Nickel (dissolved)	µg/L	0.5	No Water Quality Objective Value
Silver (total)	µg/L	0.01	-
Silver (dissolved)	µg/L	0.01	0.02
Zinc (total)	µg/L	1	No Water Quality Objective Value
Zinc (dissolved)	µg/L	1	2.4

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	
3/01/25	3/03/25	3/03/25	3/03/25	10/03/25	3/03/25	3/03/25	3/03/25	7/03/25	18/03/25	18/03/25	1/09/25	1/09/25	1/09/25	1/09/25	1/09/25	8/03/25	8/03/25	4/03/25	Dry	Dry	Dry	Dry	Dry	Dry	13/03/25	13/03/25	13/03/25	Dry	18/03/25	Dry	Dry	5/03/25	Dry	Dry	Dry	7/03/25
8.03	7.9	7.8	8.14	8.06	7.99	8.05	8.26	6.7	7.86	8.33	6.89	7.12	7.21	8.19	7.87	7.29	7.36	9.21	Dry	Dry	Dry	Dry	Dry	Dry	9.29	8.85	8.87	Dry	30.46	Dry	Dry	7.66	Dry	7.86		
219	123	221	177	172	166	170	175	1270	37	36	40	32	31	48	40	52	54	863	Dry	Dry	Dry	Dry	Dry	Dry	966	561	1130	Dry	511	Dry	1379	Dry	Dry	539		
90	118	139	146	301	121	125	137	134	190	164	268	285	239	136	155	126	145	93	Dry	Dry	Dry	Dry	Dry	Dry	115	129	147	Dry	59	Dry	Dry	196	Dry	123		
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	Dry	28.62	23.51	27.8	Dry	12.29	Dry	21.14	Dry	Dry	17.55		
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	Dry	128.5	56	80.4	Dry	69.8	Dry	Dry	101.9	Dry	78.8		
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	Dry	782	1000	56.5	Dry	170	Dry	Dry	20.8	Dry	100		
7	<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	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
212	60	80	82	87	85	85	85	330	18	18	13	13	9	16	16	17	17	260	Dry	Dry	Dry	Dry	Dry	Dry	Dry	44	31	217	Dry	108	Dry	Dry	420	Dry	85	
20	10	20	<10	<10	16	<10	<10	10	20	<10	40	<10	20	80	30	20	20	390	Dry	Dry	Dry	Dry	Dry	Dry	Dry	20	20		Dry	130	Dry	Dry	<10	Dry	75	
<10	<10	380	20	<10	10	10	20	61,600	<10	<10	10	<10	10	<10	<10	20	10	38,100	Dry	Dry	Dry	Dry	Dry	Dry	Dry	2,140	5,520	11,800	Dry	5,380	Dry	Dry	43,500	Dry	9,180	
<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	Dry	Dry	800	1,400	1,700	Dry	2,200	Dry	Dry	6,600	Dry	400	
<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	Dry	Dry	2,900	6,900	13,600	Dry	8,600	Dry	Dry	50,100	Dry	9,600	
<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	Dry	Dry	Dry	Dry	Dry	Dry	Dry	<10	20	<10	Dry	<10	Dry	Dry	<10	Dry	<10	
10	30	50	40	<10	30	40	30	20	10	40	150	20	20	40	<10	40	30	30	Dry	Dry	Dry	Dry	Dry	Dry	Dry	<10	160	30	Dry	130	Dry	20	Dry	200		
<4	<4	<4	<4	14	<4	<4	<4	<4	5	<4	<4	<4	<4	<4	<4	<4	<4	<4	Dry	Dry	Dry	Dry	Dry	Dry	<4	<4	<4	Dry	<4	Dry	Dry	<4	Dry	<4		
<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	<1.0	<1.0	<1.0		
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	164	Dry	Dry	Dry	Dry	Dry	Dry	-	-	-	-	-	-	-	-	-	-		
<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	11	12	24	16	15	16	23	<5	Dry	Dry	Dry	Dry	Dry	Dry	Dry	19	19	5	Dry	85	Dry	Dry	<5	Dry	<5	
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	Dry	Dry	20.5	21.9	6.2	Dry	1.4	Dry	Dry	2.3	Dry	0.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.5	Dry	Dry	Dry	Dry	Dry	Dry	-	-	-	-	-	-	-	-	-	-		
<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	Dry	Dry	8.6	15.6	9.3	Dry	76.6	Dry	2.1	Dry	Dry	<0.2	
<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	Dry	Dry	4.0	1.9	0.8	Dry	0.7	Dry	Dry	<0.5	Dry	<0.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	132	Dry	Dry	Dry	Dry	Dry	Dry	-	-	-	-	-	-	-	-	-	-		
6	22	11	12	6	8	9	13	2	22	15	46	35	145	213	221	324	269	<2	Dry	Dry	Dry	Dry	Dry	Dry	Dry	27	36	<2	Dry	5	Dry	Dry	<2	Dry	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	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	Dry	Dry	Dry	Dry	Dry	Dry	Dry	<0.1	<0.1	<0.1	Dry	<0.1	Dry	Dry	<0.1	Dry	<0.1	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.9	Dry	Dry	Dry	Dry	Dry	Dry	-	-	-	-	-	-	-	-	-	-		
0.6	2.4	1.5	1.0	0.8	0.8	1.5	2.9	275	5.2	2.8	3.5	2.0	0.9	11.8	5.6	49.2	0.8	<0.5	Dry	Dry	Dry	Dry	Dry	Dry	Dry	0.8	<0.5	<0.5	Dry	<0.5	Dry	Dry	<0.5	Dry	<0.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.3	Dry	Dry	Dry	Dry	Dry	Dry	-	-	-	-	-	-	-	-	-	-		
<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	<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	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.01	Dry	Dry	Dry	Dry	Dry	Dry	Dry	1.2	0.6	0.6	Dry	<0.5	Dry	1.9	Dry	Dry	<0.5	
<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	Dry	Dry	<0.01	<0.01	<0.01	Dry	<0.01	Dry	Dry	<0.01	Dry	<0.01	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	Dry	Dry	Dry	Dry	Dry	Dry	Dry	<0.01	<0.01	<0.01	Dry	<0.01	Dry	Dry	<0.01	Dry	<0.01	
<1	<1	<1	<1	<1	<1	<1	<1	7	<1	<1	8	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	2	<1	Dry	<1	Dry	<1	Dry	<1	<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 95% of aquatic species ANZECC / ARMCANZ (2018), they are not pollutant limits imposed by EPL 21266.

- Sample(s) 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*
Flow Rate			
Inflow [#]	ML/day	-	-
Outflow [#]	ML/day	-	4.32 (EPL 43 / 50)
Field			
pH	pH Unit	-	6.5-8.5
Electrical Conductivity	µS/cm	-	700 (EPL 41) / 200 (EPL 50)
Oxidation Reduction Potential	mV	-	No Water Quality Objective Value
Temperature	°C	-	15
Dissolved Oxygen	% saturation	-	No Water Quality Objective Value
Turbidity	NTU	-	<25
Laboratory analytes			
Total suspended solids	mg/L	5	5/10
Hardness as CaCO ₃ (filtered)	mg/L	1	No Water Quality Objective Value
Nutrients			
Ammonia as N	µg/L	10	200/2000 [^]
Nitrite + Nitrate as N (NO _x)	µg/L	10	10
Kjeldahl Nitrogen Total	µg/L	100	No Water Quality Objective Value
Nitrogen (Total)	µg/L	100	350/- [^]
Reactive Phosphorus	µg/L	1	No Water Quality Objective Value
Phosphorus (Total)	µg/L	10	100/300 [^]
Inorganics			
Cyanide Total	µg/L	4	No Water Quality Objective Value
Hydrocarbons			
Oil and Grease	mg/L	1	2/5 [^]
Metals			
Aluminium (dissolved)	µg/L	5	55
Arsenic (dissolved)	µg/L	0.2	13
Chromium (III+VI) (dissolved)	µg/L	0.2	1
Copper (dissolved)	µg/L	0.5	14
Iron (dissolved)	µg/L	2	300
Lead (dissolved)	µg/L	0.1	3.4
Manganese (dissolved)	µg/L	0.5	1,900
Nickel (dissolved)	µg/L	0.5	11
Silver (dissolved)	µg/L	0.01	0.05
Zinc (dissolved)	µg/L	1	8
Biological			
Faecal Coliforms	CFU/100mL	1	10/100 [^]
Biological Oxygen Demand	mg/L	2	5

EPL 41	EPL 43	EPL 44	EPL 45	EPL 47	EPL 48	EPL 49	EPL 50
16/03/2025							12/03/2025
-	0.0000	0.2650	0.0512	0.2177	0.0970	0.7472	-
-	-	-	-	-	-	-	-
7.84	-	-	-	-	-	-	7.92
6	-	-	-	-	-	-	18.6
507	-	-	-	-	-	-	701
25.15	-	-	-	-	-	-	16.1
73.6	-	-	-	-	-	-	55.2
0.9	-	-	-	-	-	-	0.53
<5	-	-	-	-	-	-	<5
<1	-	-	-	-	-	-	<1
40	-	-	-	-	-	-	<10
100	-	-	-	-	-	-	<10
<100	-	-	-	-	-	-	<100
100	-	-	-	-	-	-	<100
<10	-	-	-	-	-	-	<10
<10	-	-	-	-	-	-	10
<4	-	-	-	-	-	-	<4
<1.0	-	-	-	-	-	-	<1
<5	-	*	-	-	-	-	<5
<0.2	-	*	-	-	-	-	<0.2
<0.2	-	*	-	-	-	-	<0.2
<0.5	-	*	-	-	-	-	<0.5
<2	-	*	-	-	-	-	<2
<0.1	-	*	-	-	-	-	<0.1
<0.5	-	*	-	-	-	-	<0.5
<0.5	-	*	-	-	-	-	<0.5
<0.01	-	*	-	-	-	-	<0.01
<1	-	-	-	-	-	-	<1
11.00	-	-	-	-	-	-	<1
<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
1/03/2025
2/03/2025
3/03/2025
4/03/2025
5/03/2025
6/03/2025
7/03/2025
8/03/2025
9/03/2025
10/03/2025
11/03/2025
12/03/2025
13/03/2025
14/03/2025
15/03/2025
16/03/2025
17/03/2025
18/03/2025
19/03/2025
20/03/2025
21/03/2025
22/03/2025
23/03/2025
24/03/2025
25/03/2025
26/03/2025
27/03/2025
28/03/2025
29/03/2025
30/03/2025
31/03/2025

EPL 43 *	EPL 50 ^
Discharge volume (Megalitres)	
-	-
0.44	-
-	-
-	-
-	-
-	-
-	-
-	-
-	-
-	-
-	-
0.20	-
-	-
-	-
-	-
-	-
-	-
-	-
-	-
-	-
-	-
0.12	-
0.57	-
-	-
0.38	-
1.14	-
0.27	0.73
-	0.63
-	-
14.85	0.28
0.39	-

EPL 44	EPL 45	EPL 47	EPL 48	EPL 49
Discharge volume (Megalitres)				
0.14	0.06	0.16	0.12	0.62
0.15	0.06	0.20	0.05	0.52
0.15	0.07	0.21	0.08	0.71
0.15	0.06	0.20	0.24	0.86
0.11	0.04	0.22	0.08	0.79
0.12	0.04	0.21	0.09	0.75
0.15	0.05	0.21	0.08	0.76
0.22	0.03	0.23	0.09	0.79
0.16	0.04	0.21	0.09	0.69
0.21	0.07	0.18	0.08	0.86
0.13	0.03	0.20	0.09	0.59
0.13	0.05	0.18	0.08	0.53
0.13	0.05	0.20	0.07	0.83
0.73	0.05	0.20	0.09	0.92
0.42	0.04	0.20	0.07	0.98
0.49	0.06	0.17	0.01	0.68
0.41	0.07	0.29	0.07	0.52
0.42	0.07	0.23	0.16	0.87
0.40	0.06	0.25	0.04	0.72
0.42	0.06	0.25	0.06	0.64
0.28	0.03	0.19	0.06	0.58
0.24	0.04	0.20	0.06	0.78
0.39	0.06	0.20	0.01	0.73
0.24	0.04	0.22	0.04	0.76
0.25	0.04	0.22	0.08	0.81
0.16	0.05	0.23	0.25	0.52
0.28	0.05	0.22	0.08	0.83
0.13	0.04	0.24	0.08	0.83
0.24	0.05	0.21	0.17	0.50
0.30	0.05	0.21	0.16	0.67
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 Limited gives no warranty or representation regarding the data suitability for any particular purpose.

Snowy Hydro Limited excludes all liability to any person for loss or damage of any kind (however caused, including but not limited to by negligence) arising whether directly or indirectly from or relating in any way to the use of this data, whether in whole or in part.



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

Analyte	Unit	Limit of Reporting	Water Quality Objective Value*
Physiochemical			
pH	pH Unit	-	6.5-8
Electrical Conductivity	µS/cm	-	30-350
Oxidation Reduction Potential	mV	-	No Water Quality Objective Value
Temperature	°C	-	No Water Quality Objective Value
Dissolved Oxygen	% saturation	-	No Water Quality Objective Value
Turbidity	NTU	-	No Water Quality Objective Value
Laboratory analytes			
TSS	mg/L	5	No Water Quality Objective Value
Hardness as CaCO3	mg/L	1	No Water Quality Objective Value
Nutrients			
Ammonia as N	µg/L	10	13
Nitrite + Nitrate as N (NOx)	µg/L	10	15
Nitrate Nitrogen Total	µg/L	100	No Water Quality Objective Value
Nitrogen (Total)	µg/L	100	250
Reactive Phosphorus	µg/L	1	15
Phosphorus (Total)	µg/L	10	20
Inorganics			
Cyanide Total	µg/L	4	4
Hydrocarbons			
Oil and Grease	mg/L	1	5
Metals			
Aluminium (total)	µg/L	5	No Water Quality Objective Value
Aluminium (dissolved)	µg/L	5	27
Arsenic (total)	µg/L	0.2	No Water Quality Objective Value
Arsenic (dissolved)	µg/L	0.2	0.8
Chromium (III-VI) (total)	µg/L	0.2	No Water Quality Objective Value
Chromium (III-VI) (dissolved)	µg/L	0.2	0.01
Copper (total)	µg/L	0.5	No Water Quality Objective Value
Copper (dissolved)	µg/L	0.5	1
Iron (total)	µg/L	2	No Water Quality Objective Value
Iron (dissolved)	µg/L	2	300
Lead (total)	µg/L	0.1	No Water Quality Objective Value
Lead (dissolved)	µg/L	0.1	1
Manganese (total)	µg/L	0.5	No Water Quality Objective Value
Manganese (dissolved)	µg/L	0.5	1,200
Nickel (total)	µg/L	0.5	No Water Quality Objective Value
Nickel (dissolved)	µg/L	0.5	8
Silver (total)	µg/L	0.01	No Water Quality Objective Value
Silver (dissolved)	µg/L	0.01	0.02
Zinc (total)	µg/L	1	No Water Quality Objective Value
Zinc (dissolved)	µg/L	1	2.4

EPL56	EPL57	EPL58	EPL68	EPL69	EPL70	EPL72	EPL73 (decommissioned)	EPL80	EPL81	EPL82	EPL83	EPL87	EPL88	EPL89	EPL90	EPL91	EPL92	EPL93	EPL94	EPL95	EPL96	EPL97	EPL102 (Decommissioned)	EPL103	EPL104	EPL105	EPL113	EPL114	EPL115	EPL116	EPL117	
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	6/04/2025	4/04/2025	4/04/2025	4/04/2025	4/04/2025	4/04/2025
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	
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	
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	-	
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	
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	
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	
<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	
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	
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	
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	
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	
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	
<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	
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	
<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	
<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	
94	743	516	315	976	1,110	764	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<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	
<0.2	2.4	0.6	<0.2	0.2	<0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<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	
0.4	1.4	1.6	0.3	1.0	1.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<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	
6.2	9.9	3.8	0.6	3.5	22.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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	
125	708	860	152	611	646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<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	
1.0	1.6	8.6	0.1	0.4	0.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<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	<0.1	<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	
31.9	102	212	4.3	17.2	12.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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	
0.5	2.4	6.6	0.8	0.9	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<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	
<0.01	<0.01	0.16	<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	<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	
7	6	16	4	3	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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*
Field			
pH	pH Unit	-	6.5-8
Electrical Conductivity	µS/cm	-	20-30
Oxidation Reduction Potential	mV	-	No Water Quality Objective Value
Temperature	°C	-	No Water Quality Objective Value
Dissolved Oxygen	% saturation	-	90-110
Turbidity	NTU	-	1-20
Laboratory analytes			
Total suspended solids	mg/L	5	No Water Quality Objective Value
Hardness as CaCO ₃ (filtered)	mg/L	1	No Water Quality Objective Value
Nutrients			
Ammonia as N	µg/L	10	10
Nitrite + Nitrate as N (NOx)	µg/L	10	10
Kjeldahl Nitrogen Total	µg/L	100	No Water Quality Objective Value
Nitrogen (Total)	µg/L	100	350
Reactive Phosphorus	µg/L	1	5
Phosphorus (Total)	µg/L	10	10
Inorganics			
Cyanide Total	µg/L	4	7
Hydrocarbons			
Oil and Grease	mg/L	1	5
Metals			
Aluminium (dissolved)	µg/L	5	55
Arsenic (dissolved)	µg/L	0.2	13
Chromium (III+VI) (dissolved)	µg/L	0.2	1
Copper (dissolved)	µg/L	0.5	14
Iron (dissolved)	µg/L	2	300
Lead (dissolved)	µg/L	0.1	3.4
Manganese (dissolved)	µg/L	0.5	1,900
Nickel (dissolved)	µg/L	0.5	11
Silver (dissolved)	µg/L	0.01	0.05
Zinc (dissolved)	µg/L	1	8
Biological			
Faecal Coliforms	CFU/100mL	1	10/100^
Biochemical Oxygen Demand	mg/L	2	1/5^

EPL10	EPL11	EPL28	EPL29	EPL32	EPL38	EPL39	EPL40	EPL46	EPL51	EPL107	EPL108	EPL109
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
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
47	41	13.9	27	27	27	2	32.5	28	27.5	38	33	35
193	190	110.1	134	110	113	259	143.5	165	144.7	183	175	145
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
87.2	91.2	89.7	60.1	101.6	89.1	65	101.3	93.6	91	85	89.2	85.7
5.1	9.5	6.85	0	3.3	57.9	6	3.28	8.2	10.96	0.5	11	15.9
<5	<5	17	<5	<5	18	<5	<5	<5	<5	<5	<5	<5
22	19	9	9	9	9	7	9	9	9	10	10	10
30	30	<10	10	10	<10	<10	<10	20	<10	<10	<10	<10
<10	<10	10	<10	<10	<10	80	<10	<10	<10	<10	<10	<10
100	100	1,200	500	300	800	100	<100	300	400	<100	<100	<100
100	100	1,200	500	300	800	200	<100	300	400	<100	<100	<100
<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
30	20	70	30	30	40	150	20	20	50	20	20	<10
<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
<5	<5	15	9	9	9	12	13	8	9	<5	<5	<5
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
<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
<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6	4	72	55	56	52	77	58	61	58	4	4	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
<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
<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
<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
28	21	100	-	-	-	-	-	-	1	-	-	-
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*
Field			
pH	-	-	6.5-8
Electrical Conductivity	µS/cm	-	30-350
Oxidation Reduction Potential	mV	-	No Water Quality Objective Value
Temperature	°C	-	No Water Quality Objective Value
Dissolved Oxygen	% saturation	-	90-110
Turbidity	NTU	-	2-25
Laboratory analyses			
TSS	mg/L	5	No Water Quality Objective Value
Hardness as CaCO3	mg/L	1	No Water Quality Objective Value
Nutrients			
Ammonia as N	µg/L	10	13
Nitrite + Nitrate as N (NOx)	µg/L	10	15
Nitrate as N (NO3)	µg/L	100	No Water Quality Objective Value
Nitrogen (Total)	µg/L	100	250
Reactive Phosphorus	µg/L	1	15
Phosphorus (Total)	µg/L	10	20
Inorganics			
Cyanide Total	µg/L	4	4
Hydrocarbons			
Oil and Grease	mg/L	1	5
Metals			
Aluminium (total)	µg/L	5	No Water Quality Objective Value
Aluminium (dissolved)	µg/L	5	27
Arsenic (total)	µg/L	0.2	No Water Quality Objective Value
Arsenic (dissolved)	µg/L	0.2	0.8
Chromium (III+VI) (total)	µg/L	0.2	No Water Quality Objective Value
Chromium (III+VI) (dissolved)	µg/L	0.5	0.01
Copper (total)	µg/L	0.5	No Water Quality Objective Value
Copper (dissolved)	µg/L	0.5	1
Iron (total)	µg/L	2	No Water Quality Objective Value
Iron (dissolved)	µg/L	2	300
Lead (total)	µg/L	0.1	No Water Quality Objective Value
Lead (dissolved)	µg/L	0.1	1
Manganese (total)	µg/L	0.5	No Water Quality Objective Value
Manganese (dissolved)	µg/L	0.5	1,200
Nickel (total)	µg/L	0.5	No Water Quality Objective Value
Nickel (dissolved)	µg/L	0.5	8
Silver (total)	µg/L	0.01	No Water Quality Objective Value
Silver (dissolved)	µg/L	0.01	0.02
Zinc (total)	µg/L	1	No Water Quality Objective Value
Zinc (dissolved)	µg/L	1	2.4

* 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

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	
11/04/2025	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
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	
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	
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	
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	
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	
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	
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	
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	
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	
<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	
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	
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	
<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	
<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	
<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		
<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	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,140	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<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	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
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	
-	-	-	-	-	-	-	<1	-	-	-	-	-	-	-	-	-	-	5.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
<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	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
<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	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,410	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
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	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
<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	<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
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	34.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
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	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
<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	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
<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	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
<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	



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

Date
1/04/2025
2/04/2025
3/04/2025
4/04/2025
5/04/2025
6/04/2025
7/04/2025
8/04/2025
9/04/2025
10/04/2025
11/04/2025
12/04/2025
13/04/2025
14/04/2025
15/04/2025
16/04/2025
17/04/2025
18/04/2025
19/04/2025
20/04/2025
21/04/2025
22/04/2025
23/04/2025
24/04/2025
25/04/2025
26/04/2025
27/04/2025
28/04/2025
29/04/2025
30/04/2025

EPL 43 *	EPL 50 ^
Discharge volume (Megalitres)	
-	0.12
0.52	0.63
0.46	-
0.38	0.82
0.28	-
-	0.74
-	-
-	0.34
-	0.58
-	-
-	0.44
0.17	0.33
-	0.37
-	0.61
0.28	-
-	0.55
-	0.18
-	-
-	-
-	0.07
-	-
0.43	0.14
0.56	-
-	-
0.37	-
-	-
0.46	-
-	-

EPL 44	EPL 45	EPL 47	EPL 48	EPL 49
Discharge volume (Megalitres)				
0.21	0.05	0.19	0.06	1.10
0.25	0.06	0.23	0.08	0.95
0.22	0.05	0.23	0.09	0.62
0.14	0.07	0.28	0.10	0.60
0.04	0.03	0.24	0.07	0.33
0.19	0.06	0.21	0.10	0.72
0.30	0.06	0.25	0.07	0.59
0.46	0.06	0.22	0.09	0.76
0.48	0.06	0.23	0.05	0.52
0.51	0.08	0.17	0.09	0.71
0.25	0.07	0.18	0.28	0.71
0.41	0.05	0.30	0.08	0.48
0.27	0.05	0.23	0.04	0.53
0.27	0.05	0.39	0.03	0.66
0.59	0.05	0.22	0.08	0.52
0.29	0.04	0.20	0.25	0.46
0.16	0.04	0.19	0.09	0.52
0.28	0.06	0.18	0.05	0.56
0.28	0.04	0.20	0.07	0.54
0.31	0.05	0.19	0.09	0.64
0.36	0.05	0.19	0.10	0.51
0.50	0.06	0.20	0.06	0.35
0.41	0.09	0.19	0.03	0.62
0.28	0.06	0.20	0.02	0.33
0.19	0.05	0.23	0.08	0.36
0.27	0.05	0.21	0.08	0.29
0.47	0.06	0.22	0.02	0.58
0.20	0.06	0.26	0.05	0.54
0.49	0.05	0.22	0.09	0.71
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*
Flow Rate			
Inflow [#]	ML/day	-	-
Outflow [#]	ML/day	-	4.32 (EPL 43 / 50)
Field			
pH	pH Unit	-	6.5-8.5
Electrical Conductivity	µS/cm	-	700 (EPL 41) / 200 (EPL 50)
Oxidation Reduction Potential	mV	-	No Water Quality Objective Value
Temperature	°C	-	15
Dissolved Oxygen	% saturation	-	No Water Quality Objective Value
Turbidity	NTU	-	<25
Laboratory analytes			
Total suspended solids	mg/L	5	5/10
Hardness as CaCO ₃ (filtered)	mg/L	1	No Water Quality Objective Value
Nutrients			
Ammonia as N	µg/L	10	200/2000 [^]
Nitrite + Nitrate as N (NO _x)	µg/L	10	10
Kjeldahl Nitrogen Total	µg/L	100	No Water Quality Objective Value
Nitrogen (Total)	µg/L	100	350/- [^]
Reactive Phosphorus	µg/L	1	No Water Quality Objective Value
Phosphorus (Total)	µg/L	10	100/300 [^]
Inorganics			
Cyanide Total	µg/L	4	No Water Quality Objective Value
Hydrocarbons			
Oil and Grease	mg/L	1	2/5 [^]
Metals			
Aluminium (dissolved)	µg/L	5	55
Arsenic (dissolved)	µg/L	0.2	13
Chromium (III+VI) (dissolved)	µg/L	0.2	1
Copper (dissolved)	µg/L	0.5	14
Iron (dissolved)	µg/L	2	300
Lead (dissolved)	µg/L	0.1	3.4
Manganese (dissolved)	µg/L	0.5	1,900
Nickel (dissolved)	µg/L	0.5	11
Silver (dissolved)	µg/L	0.01	0.05
Zinc (dissolved)	µg/L	1	8
Biological			
Faecal Coliforms	CFU/100mL	1	10/100 [^]
Biological Oxygen Demand	mg/L	2	5

EPL 41	EPL 43	EPL 44	EPL 45	EPL 47	EPL 48	EPL 49	EPL 50
23/04/2025							27/04/2025
-	0.0000	0.3093	0.0545	0.2226	0.0815	0.5803	-
-	-	-	-	-	-	-	-
7.63	-	-	-	-	-	-	7.71
9.4	-	-	-	-	-	-	19.1
156	-	-	-	-	-	-	97.8
19.91	-	-	-	-	-	-	16.7
56	-	-	-	-	-	-	88.8
0.24	-	-	-	-	-	-	0.58
<5	-	-	-	-	-	-	<5
<1	-	-	-	-	-	-	<1
20	-	-	-	-	-	-	<10
80	-	-	-	-	-	-	10
<100	-	-	-	-	-	-	<100
<100	-	-	-	-	-	-	<100
<1	-	-	-	-	-	-	<10
<1	-	-	-	-	-	-	20
<4	-	-	-	-	-	-	<4
<1.0	-	-	-	-	-	-	<1.0
<5	-	-	-	-	-	-	<5
<0.2	-	-	-	-	-	-	<0.2
<0.2	-	-	-	-	-	-	<0.2
<0.5	-	-	-	-	-	-	0.6
<2	-	-	-	-	-	-	<2
<0.1	-	-	-	-	-	-	<0.1
<0.5	-	-	-	-	-	-	<0.5
<0.5	-	-	-	-	-	-	<0.5
<0.01	-	-	-	-	-	-	<0.01
<1	-	-	-	-	-	-	5
<1	-	-	-	-	-	-	<1
<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 EPL Sampling: 01 - 31 May 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: Ammonia concentrations were slightly elevated in some EPL locations along Wallaces Creek, Yarrangobily River, and Murrumbidgee River. EPL24 is reported elevated nutrient and select heavy metal concentrations alongside elevated EC concentrations which have been recorded previous sampling rounds. These results are consistent with low flowing, shallow waterway that was observed at the time of sampling. There are exceedances noted from EPL122 where the concentrations of Nutrients, Electrical Conductivity, Phosphorus, and Ammonia are exceeding our WQO's and could be attributed to environmental conditions of shallow waterways and low flows, with lots of surrounding vegetation. Reservoir Results: Tantangara and Talbingo Reservoirs report consistent elevations in nitrogen in line with those data captures from previous monitoring events. Reduced water levels, consistent Nitrogen concentrations and the developing algal cycle within the Tantangara and Talbingo water bodies are understood to heavily influence the fluctuations in dissolved oxygen levels, such as those reported at EPL10, EPL29 and EPL39. EPL39 was captured during an extremely low water level time and is understood to be unrepresentative of the water quality at the time of monitoring. Elevated levels of Faecal coliforms, EC and Ammonia are potentially attributed to the fluctuations in water levels and the collection of samples from the waters. Discharge Results: Results for the discharge locations met the adopted WQO's for the periods of discharge. The discharge from EPL50 on the 26th was registered in the early hours of the morning prior to results returning. FGJV is in the process of finalising the discharge procedure which returns monitoring back to the EPL license for greater clarity. Groundwater Results: Results for groundwater bores surrounding Lickhole Gully have reported elevated concentrations of nutrients and select dissolved heavy metals. These heavy metals have been reported previously as being above adopted WQO's and are possibly influenced by the historic mining activities in the immediate vicinity. GF01 down gradient locations comprise similar characteristics. These elevations are not only seen in LHG PSE area but also in GF01 PSE down gradient locations. EPL1 which is sampled quarterly has returned elevated Electrical Conductivity, Ammonia, and Nutrient levels although this is not outside of data recorded from previous sample rounds. Leachate results: The exceedances found within the leachate basin results are in line with intended design functionality for the storage of PSE generated leachate water. GF01 basin has previously been reconstructed and has not since had water in it to sample.	

The publication of this pollution monitoring data is carried out in accordance with section 66 (6) of the Protection of the Environment Operations Act 1997 (NSW).
Snowy Hydro Limited gives no warranty or representation regarding the data suitability for any particular purpose.
Snowy Hydro Limited excludes all liability to any person for loss or damage of any kind (however caused, including but not limited to by negligence) arising whether directly or indirectly from or relating in any way to the use of this data, whether in whole or in part.

Monthly FPI Sampling: 01-31 May 2023 - Groundwater

^a Water Quality Digestion values for groundwater refer to the default trigger values for physical and chemical constituents in south-west Australia (Jugland river) for the protection of 95% of aquatic species. ANZECC / ASMAC (2000). They are not pollution limits imposed by EPA. 20200.

Snowy Hydro 2.0 Main Works
Monthly EPL Sampling: 01-31 May 2025 - Talbingo and Tantangara Reservoir

Analyte	Unit	Limit of Reporting	Water Quality Objective Value*
Field			
pH	pH Unit	-	6.5-8
Electrical Conductivity	µS/cm	-	20-30
Oxidation Reduction Potential	mV	-	No Water Quality Objective Value
Temperature	°C	-	No Water Quality Objective Value
Dissolved Oxygen	% saturation	-	90-110
Turbidity	NTU	-	1-20
Laboratory analytes			
Total suspended solids	mg/L	5	No Water Quality Objective Value
Hardness as CaCO ₃ (filtered)	mg/L	1	No Water Quality Objective Value
Nutrients			
Ammonia as N	µg/L	10	10
Nitrite + Nitrate as N (NO _x)	µg/L	10	10
Kjeldahl Nitrogen Total	µg/L	100	No Water Quality Objective Value
Nitrogen (Total)	µg/L	100	350
Reactive Phosphorus	µg/L	1	5
Phosphorus (Total)	µg/L	10	10
Inorganics			
Cyanide Total	µg/L	4	7
Hydrocarbons			
Oil and Grease	mg/L	1	5
Metals			
Aluminium (dissolved)	µg/L	5	55
Arsenic (dissolved)	µg/L	0.2	13
Chromium (III+VI) (dissolved)	µg/L	0.2	1
Copper (dissolved)	µg/L	0.5	14
Iron (dissolved)	µg/L	2	300
Lead (dissolved)	µg/L	0.1	3.4
Manganese (dissolved)	µg/L	0.5	1,900
Nickel (dissolved)	µg/L	0.5	11
Silver (dissolved)	µg/L	0.01	0.05
Zinc (dissolved)	µg/L	1	8
Biological			
Faecal Coliforms	CFU/100mL	1	10/100 [^]
Biochemical Oxygen Demand	mg/L	2	1/5 [^]

- * 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.

EPL10	EPL11	EPL28	EPL29	EPL32	EPL38	EPL39	EPL40	EPL46	EPL51	EPL107	EPL108	EPL109
4/05/2025	4/05/2025	25/05/2025	25/05/2025	25/05/2025	17/05/2025	17/05/2025	12/04/2025	15/04/2025	16/04/2025	13/04/2025	13/04/2025	13/04/2025
7.58	7.47	7.26	7.19	7.22	7.63	8.76	8.31	7.1	7.18	7.47	7.5	7.63
54	50	31	30	30	23	27	40.4	34	30	28	24	25
205	206	318	349	353	243	156	138.4	367	349	197	192	186
14.96	14.97	8.37	9	8.88	13.16	9.63	10.9	8.8	8.94	15.03	15.27	14.6
59.7	57	104.7	104.1	76.3	68.6	68.6	96.7	84.3	85.6	63.9	75.3	84.4
4.3	5.2	13.9	17.3	17.7	40.3	22.6	4.38	0.8	14.3	10.1	18	14.6
28	14	6	<5	<5	12	8	<5	<5	<5	8	<5	<5
33	33	9	9	9	9	7	9	9	9	17	14	14
30	30	60	60	60	<10	<10	40	100	60	80	40	70
10	30	20	10	10	10	50	<10	50	10	10	20	<10
100	200	500	500	400	1,000	<100	<100	500	500	200	200	200
100	200	500	500	400	1,000	<100	<100	600	500	200	200	200
<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
<10	10	10	20	<10	60	50	<10	10	20	20	<10	<10
<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
<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	<5	30	26	26	26	14	14	26	27	<5	<5	<5
0.4	0.4	0.3	0.4	0.4	0.4	<0.2	<0.2	0.4	0.4	0.3	0.3	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	<0.2
<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
5	5	96	96	97	107	53	47	92	95	3	<2	2
<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	<0.5	1.8	1.4	1.4	2.0	1.8	3.0	1.4	1.5	<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
<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
<1	<1	<1	<1	<1	1	<1	<1	<1	<1	<1	<1	<1
6	3	22	-	-	-	-	-	-	11	-	-	-
3	4	8	-	-	-	-	-	-	6	-	-	-

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

Monthly EPL Sampling: 03-31 May 2025 - Surface Water																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
Analyte	Unit	Limit of Reporting	Water Quality Objective Value*		EPL1	EPL2	EPL3	EPL4	EPL5	EPL6	EPL7	EPL8	EPL9	EPL10	EPL11	EPL12	EPL13	EPL14	EPL15	EPL16	EPL17	EPL18	EPL19	EPL20	EPL21	EPL22	EPL23	EPL24	EPL25	EPL26	EPL27	EPL28	EPL29	EPL30	EPL31	EPL32	EPL33	EPL34	EPL35	EPL36	EPL37	EPL38	EPL39	EPL40	EPL41	EPL42	EPL43	EPL44	EPL45	EPL46	EPL47	EPL48	EPL49	EPL50	EPL51	EPL52	EPL53	EPL54	EPL55	EPL56	EPL57	EPL58	EPL59	EPL60	EPL61	EPL62	EPL63	EPL64	EPL65	EPL66	EPL67	EPL68	EPL69	EPL70	EPL71	EPL72	EPL73	EPL74	EPL75	EPL76	EPL77	EPL78	EPL79	EPL80	EPL81	EPL82	EPL83	EPL84	EPL85	EPL86	EPL87	EPL88	EPL89	EPL90	EPL91	EPL92	EPL93	EPL94	EPL95	EPL96	EPL97	EPL98	EPL99	EPL100	EPL101	EPL102	EPL103	EPL104	EPL105	EPL106	EPL107	EPL108	EPL109	EPL110	EPL111	EPL112	EPL113	EPL114	EPL115	EPL116	EPL117	EPL118	EPL119	EPL120	EPL121	EPL122	EPL123	EPL124	EPL125	EPL126	EPL127	EPL128	EPL129	EPL130	EPL131	EPL132	EPL133	EPL134	EPL135	EPL136	EPL137	EPL138	EPL139	EPL140	EPL141	EPL142	EPL143	EPL144	EPL145	EPL146	EPL147	EPL148	EPL149	EPL150	EPL151	EPL152	EPL153	EPL154	EPL155	EPL156	EPL157	EPL158	EPL159	EPL160	EPL161	EPL162	EPL163	EPL164	EPL165	EPL166	EPL167	EPL168	EPL169	EPL170	EPL171	EPL172	EPL173	EPL174	EPL175	EPL176	EPL177	EPL178	EPL179	EPL180	EPL181	EPL182	EPL183	EPL184	EPL185	EPL186	EPL187	EPL188	EPL189	EPL190	EPL191	EPL192	EPL193	EPL194	EPL195	EPL196	EPL197	EPL198	EPL199	EPL200	EPL201	EPL202	EPL203	EPL204	EPL205	EPL206	EPL207	EPL208	EPL209	EPL210	EPL211	EPL212	EPL213	EPL214	EPL215	EPL216	EPL217	EPL218	EPL219	EPL220	EPL221	EPL222	EPL223	EPL224	EPL225	EPL226	EPL227	EPL228	EPL229	EPL230	EPL231	EPL232	EPL233	EPL234	EPL235	EPL236	EPL237	EPL238	EPL239	EPL240	EPL241	EPL242	EPL243	EPL244	EPL245	EPL246	EPL247	EPL248	EPL249	EPL250	EPL251	EPL252	EPL253	EPL254	EPL255	EPL256	EPL257	EPL258	EPL259	EPL260	EPL261	EPL262	EPL263	EPL264	EPL265	EPL266	EPL267	EPL268	EPL269	EPL270	EPL271	EPL272	EPL273	EPL274	EPL275	EPL276	EPL277	EPL278	EPL279	EPL280	EPL281	EPL282	EPL283	EPL284	EPL285	EPL286	EPL287	EPL288	EPL289	EPL290	EPL291	EPL292	EPL293	EPL294	EPL295	EPL296	EPL297	EPL298	EPL299	EPL300	EPL301	EPL302	EPL303	EPL304	EPL305	EPL306	EPL307	EPL308	EPL309	EPL310	EPL311	EPL312	EPL313	EPL314	EPL315	EPL316	EPL317	EPL318	EPL319	EPL320	EPL321	EPL322	EPL323	EPL324	EPL325	EPL326	EPL327	EPL328	EPL329	EPL330	EPL331	EPL332	EPL333	EPL334	EPL335	EPL336	EPL337	EPL338	EPL339	EPL340	EPL341	EPL342	EPL343	EPL344	EPL345	EPL346	EPL347	EPL348	EPL349	EPL350	EPL351	EPL352	EPL353	EPL354	EPL355	EPL356	EPL357	EPL358	EPL359	EPL360	EPL361	EPL362	EPL363	EPL364	EPL365	EPL366	EPL367	EPL368	EPL369	EPL370	EPL371	EPL372	EPL373	EPL374	EPL375	EPL376	EPL377	EPL378	EPL379	EPL380	EPL381	EPL382	EPL383	EPL384	EPL385	EPL386	EPL387	EPL388	EPL389	EPL390	EPL391	EPL392	EPL393	EPL394	EPL395	EPL396	EPL397	EPL398	EPL399	EPL400	EPL401	EPL402	EPL403	EPL404	EPL405	EPL406	EPL407	EPL408	EPL409	EPL410	EPL411	EPL412	EPL413	EPL414	EPL415	EPL416	EPL417	EPL418	EPL419	EPL420	EPL421	EPL422	EPL423	EPL424	EPL425	EPL426	EPL427	EPL428	EPL429	EPL430	EPL431	EPL432	EPL433	EPL434	EPL435	EPL436	EPL437	EPL438	EPL439	EPL440	EPL441	EPL442	EPL443	EPL444	EPL445	EPL446	EPL447	EPL448	EPL449	EPL450	EPL451	EPL452	EPL453	EPL454	EPL455	EPL456	EPL457	EPL458	EPL459	EPL460	EPL461	EPL462	EPL463	EPL464	EPL465	EPL466	EPL467	EPL468	EPL469	EPL470	EPL471	EPL472	EPL473	EPL474	EPL475	EPL476	EPL477	EPL478	EPL479	EPL480	EPL481	EPL482	EPL483	EPL484	EPL485	EPL486	EPL487	EPL488	EPL489	EPL490	EPL491	EPL492	EPL493	EPL494	EPL495	EPL496	EPL497	EPL498	EPL499	EPL500	EPL501	EPL502	EPL503	EPL504	EPL505	EPL506	EPL507	EPL508	EPL509	EPL510	EPL511	EPL512	EPL513	EPL514	EPL515	EPL516	EPL517	EPL518	EPL519	EPL520	EPL521	EPL522	EPL523	EPL524	EPL525	EPL526	EPL527	EPL528	EPL529	EPL530	EPL531	EPL532	EPL533	EPL534	EPL535	EPL536	EPL537	EPL538	EPL539	EPL540	EPL541	EPL542	EPL543	EPL544	EPL545	EPL546	EPL547	EPL548	EPL549	EPL550	EPL551	EPL552	EPL553	EPL554	EPL555	EPL556	EPL557	EPL558	EPL559	EPL560	EPL561	EPL562	EPL563	EPL564	EPL565	EPL566	EPL567	EPL568	EPL569	EPL570	EPL571	EPL572	EPL573	EPL574	EPL575	EPL576	EPL577	EPL578	EPL579	EPL580	EPL581	EPL582	EPL583	EPL584	EPL585	EPL586	EPL587	EPL588	EPL589	EPL590	EPL591	EPL592	EPL593	EPL594	EPL595	EPL596	EPL597	EPL598	EPL599	EPL600	EPL601	EPL602	EPL603	EPL604	EPL605	EPL606	EPL607	EPL608	EPL609	EPL610	EPL611	EPL612	EPL613	EPL614	EPL615	EPL616	EPL617	EPL618	EPL619	EPL620	EPL621	EPL622	EPL623	EPL624	EPL625	EPL626	EPL627	EPL628	EPL629	EPL630	EPL631	EPL632	EPL633	EPL634	EPL635	EPL636	EPL637	EPL638	EPL639	EPL640	EPL641	EPL642	EPL643	EPL644	EPL645	EPL646	EPL647	EPL648	EPL649	EPL650	EPL651	EPL652	EPL653	EPL654	EPL655	EPL656	EPL657	EPL658	EPL659	EPL660	EPL661	EPL662	EPL663	EPL664	EPL665	EPL666	EPL667	EPL668	EPL669	EPL670	EPL671	EPL672	EPL673	EPL674	EPL675	EPL676	EPL677	EPL678	EPL679	EPL680	EPL681	EPL682	EPL683	EPL684	EPL685	EPL686	EPL687	EPL688	EPL689	EPL690	EPL691	EPL692	EPL693	EPL694	EPL695	EPL696	EPL697	EPL698	EPL699	EPL700	EPL701	EPL702	EPL703	EPL704	EPL705	EPL706	EPL707	EPL708	EPL709	EPL710	EPL711	EPL712	EPL713	EPL714	EPL715	EPL716	EPL717	EPL718	EPL719	EPL720	EPL721	EPL722	EPL723	EPL724	EPL725	EPL726	EPL727	EPL728	EPL729	EPL730	EPL731	EPL732	EPL733	EPL734	EPL735	EPL736	EPL737	EPL738	EPL739	EPL740	EPL741	EPL742	EPL743	EPL744	EPL745	EPL746	EPL747	EPL748	EPL749	EPL750	EPL751	EPL752	EPL753	EPL754	EPL755	EPL756	EPL757	EPL758	EPL759	EPL760	EPL761	EPL762	EPL763	EPL764	EPL765	EPL766	EPL767	EPL768	EPL769	EPL770	EPL771	EPL772	EPL773	EPL774	EPL775	EPL776	EPL777	EPL778	EPL779	EPL780	EPL781	EPL782	EPL783	EPL784	EPL785	EPL786	EPL787	EPL788	EPL789	EPL790	EPL791	EPL792	EPL793	EPL794	EPL795	EPL796	EPL797	EPL798	EPL799	EPL800	EPL801	EPL802	EPL803	EPL804	EPL805	EPL806	EPL807	EPL808	EPL809	EPL810	EPL811	EPL812	EPL813	EPL814	EPL815	EPL816	EPL817	EPL818	EPL819	EPL820	EPL821	EPL822	EPL823	EPL824	EPL825	EPL826	EPL827	EPL828	EPL829	EPL830	EPL831	EPL832	EPL833	EPL834	EPL835	EPL836	EPL837	EPL838	EPL839	EPL840	EPL841	EPL842	EPL843	EPL844	EPL845	EPL846	EPL847	EPL848	EPL849	EPL850	EPL851	EPL852	EPL853	EPL854	EPL855	EPL856	EPL857	EPL858	EPL859	EPL860	EPL861	EPL862	EPL863	EPL864	EPL865	EPL866	EPL867	EPL868	EPL869	EPL870	EPL871	EPL872	EPL873	EPL874	EPL875	EPL876	EPL877	EPL878	EPL879	EPL880	EPL881	EPL882	EPL883	EPL884	EPL885	EPL886	EPL887	EPL888	EPL889	EPL890	EPL891	EPL892	EPL893	EPL894	EPL895	EPL896	EPL897	EPL898	EPL899	EPL900	EPL901	EPL902	EPL903	EPL904	EPL905	EPL906	EPL907	EPL908	EPL909	EPL910	EPL911	EPL912	EPL913	EPL914	EPL915	EPL916	EPL917	EPL918	EPL919	EPL920	EPL921	EPL922	EPL923	EPL924	EPL925	EPL926	EPL927	EPL928	EPL929	EPL930	EPL931	EPL932	EPL933	EPL934	EPL935	EPL936	EPL937	EPL938	EPL939	EPL940	EPL941	EPL942	EPL943	EPL944	EPL945	EPL946	EPL947	EPL948	EPL949	EPL950	EPL951	EPL952	EPL953	EPL954	EPL955	EPL956	EPL957	EPL958	EPL959	EPL960	EPL961	EPL962	EPL963	EPL964	EPL965	EPL966	EPL967	EPL968	EPL969	EPL970	EPL971	EPL972	EPL973	EPL974	EPL975	EPL976	EPL977	EPL978	EPL979	EPL980	EPL981	EPL982	EPL983	EPL984	EPL985	EPL986	EPL987	EPL988	EPL989	EPL990	EPL991	EPL992	EPL993	EPL994	EPL995	EPL996	EPL997	EPL998	EPL999	EPL1000	EPL1001	EPL1002	EPL1003	EPL1004	EPL1005	EPL1006	EPL1007	EPL1008	EPL1009	EPL1010	EPL1011	EPL1012	EPL1013	EPL1014	EPL1015	EPL1016	EPL1017	EPL1018	EPL1019	EPL1020	EPL1021	EPL1022	EPL1023	EPL1024	EPL1025	EPL1026	EPL1027	EPL1028	EPL1029	EPL1030	EPL1031	EPL1032	EPL1033	EPL1034	EPL1035	EPL1036	EPL1037	EPL1038	EPL1039	EPL1040	EPL1041	EPL1042	EPL1043	EPL1044	EPL1045	EPL1046	EPL1047	EPL1048	EPL1049	EPL1050	EPL1051	EPL1052	EPL1053	EPL1054	EPL1055	EPL1056	EPL1057	EPL1058	EPL1059	EPL1060	EPL1061	EPL1062	EPL1063	EPL1064	EPL1065	EPL1066	EPL1067	EPL1068	EPL1069	EPL1070	EPL1071	EPL1072	EPL1073	EPL1074	EPL1075	EPL1076	EPL1077	EPL1078	EPL1079	EPL1080	EPL1081	EPL1082	EPL1083	EPL1084	EPL1085	EPL1086	EPL1087	EPL1088	EPL1089	EPL1090	EPL1091	EPL1092	EPL1093	EPL1094	EPL1095	EPL1096	EPL1097	EPL1098	EPL1099	EPL1100	EPL1101	EPL1102	EPL1103	EPL1104	EPL1105	EPL1106	EPL1107	EPL1108	EPL1109	EPL1110	EPL1111	EPL1112	EPL1113	EPL1114	EPL1115	EPL1116	EPL1117	EPL1118	EPL1119	EPL1120	EPL1121	EPL1122	EPL1123	EPL1124	EPL1125	EPL1126	EPL1127	EPL1128	EPL1129	EPL1130	EPL1131	EPL1132	EPL1133	EPL1134	EPL1135	EPL1136	EPL1137	EPL1138	EPL1139	EPL1140	EPL1141	EPL1142	EPL1143	EPL1144	EPL1145	EPL1146	EPL1147	EPL1148	EPL1149	EPL1150	EPL1151	EPL1152	EPL1153	EPL1154	EPL1155	EPL1156	EPL1157	EPL1158	EPL1159	EPL1160	EPL1161	EPL1162	EPL1163	EPL1164	EPL1165	EPL1166	EPL1167	EPL1168	EPL1169	EPL1170	EPL1171	EPL1172	EPL1173	EPL1174	EPL1175	EPL1176	EPL1177	EPL1178	EPL1179	EPL1180	EPL1181	EPL1182	EPL1183	EPL1184	EPL1185	EPL1186	EPL1187	EPL1188	EPL1189	EPL1190	EPL1191	EPL1192	EPL1193	EPL1194	EPL1195	EPL1196	EPL1197	EPL1198	EPL1199	EPL1200	EPL1201	EPL1202	EPL1203	EPL1204	EPL1205	EPL1206	EPL1207	EPL1208	EPL1209	EPL1210	EPL1211	EPL1212	EPL1213	EPL1214	EPL1215	EPL1216	EPL1217	EPL1218	EPL1219	EPL1220	EPL1221	EPL1222	EPL1223	EPL1224	EPL1225	EPL1226	EPL1227	EPL1228	EPL1229	EPL1230	EPL1231	EPL1232	EPL1233	EPL1234	EPL1235	EPL1236	EPL1237	EPL1238	EPL1239	EPL1240	EPL1241	EPL1242	EPL1243	EPL1244	EPL1245	EPL1246	EPL1247	EPL1248	EPL1249	EPL1250	EPL1251	EPL1252	EPL1253	EPL1254	EPL1255	EPL1256	EPL1257	EPL1258	EPL1259	EPL1260	EPL1261	EPL1262	EPL1263	EPL1264	EPL1265	EPL1266	EPL1267	EPL1268	EPL1269	EPL1270	EPL1271	EPL1272	EPL1273	EPL1274	EPL1275	EPL1276	EPL1277	EPL1278	EPL1279	EPL1280	EPL1281	EPL1282	EPL1283	EPL1284	EPL1285	EPL1286	EPL1287	EPL1288	EPL1289	EPL1290	EPL1291	EPL1292	EPL1293	EPL1294	EPL1295	EPL1296	EPL1297	EPL1298	EPL1299	EPL1300	EPL1301	EPL1302	EPL1303	EPL1304	EPL1305	EPL1306	EPL1307	EPL1308	EPL1309	EPL1310	EPL1311	EPL1312	EPL1313	EPL1314	EPL1315	EPL1316	EPL1317	EPL1318	EPL1319	EPL1320	EPL1321	EPL1322	EPL1323	EPL1324	EPL1325	EPL1326	EPL1327	EPL1328	EPL1329	EPL1330	EPL1331	EPL1332	EPL1333	EPL1334	EPL1335	EPL1336	EPL1337	EPL1338	EPL1339	EPL1340	EPL1341	EPL1342	E

Snowy Hydro 2.0 Main Works

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

Analyte	Unit	Limit of Reporting	Water Quality Objective Value*
Flow Rate			
Inflow [#]	ML/day	-	-
Outflow [#]	ML/day	-	4.32 (EPL 43 / 50)
Field			
pH	pH Unit	-	6.5-8.5
Electrical Conductivity	µS/cm	-	700 (EPL 41) / 200 (EPL 50)
Oxidation Reduction Potential	mV	-	No Water Quality Objective Value
Temperature	°C	-	15
Dissolved Oxygen	% saturation	-	No Water Quality Objective Value
Turbidity	NTU	-	<25
Laboratory analytes			
Total suspended solids	mg/L	5	5/10
Hardness as CaCO ₃ (filtered)	mg/L	1	No Water Quality Objective Value
Nutrients			
Ammonia as N	µg/L	10	200/2000 [^]
Nitrite + Nitrate as N (NO _x)	µg/L	10	10
Kjeldahl Nitrogen Total	µg/L	100	No Water Quality Objective Value
Nitrogen (Total)	µg/L	100	350/- [^]
Reactive Phosphorus	µg/L	1	No Water Quality Objective Value
Phosphorus (Total)	µg/L	10	100/300 [^]
Inorganics			
Cyanide Total	µg/L	4	No Water Quality Objective Value
Hydrocarbons			
Oil and Grease	mg/L	1	2/5 [^]
Metals			
Aluminium (dissolved)	µg/L	5	55
Arsenic (dissolved)	µg/L	0.2	13
Chromium (III+VI) (dissolved)	µg/L	0.2	1
Copper (dissolved)	µg/L	0.5	14
Iron (dissolved)	µg/L	2	300
Lead (dissolved)	µg/L	0.1	3.4
Manganese (dissolved)	µg/L	0.5	1,900
Nickel (dissolved)	µg/L	0.5	11
Silver (dissolved)	µg/L	0.01	0.05
Zinc (dissolved)	µg/L	1	8
Biological			
Faecal Coliforms	CFU/100mL	1	10/100 [^]
Biological Oxygen Demand	mg/L	2	5

EPL 41	EPL 43	EPL 44	EPL 45	EPL 47	EPL 48	EPL 49	EPL 50
25/05/2025							26/5/2025
-	0.0000	0.3576	0.0568	0.2285	2.6710	0.5803	-
-	-	-	-	-	-	-	-
8.01	-	-	-	-	-	-	7.58
16	-	-	-	-	-	-	46.18
147	-	-	-	-	-	-	-
14.59	-	-	-	-	-	-	7.3
68.7	-	-	-	-	-	-	-
18.9	-	-	-	-	-	-	0.39
<5	-	-	-	-	-	-	<5
-	-	-	-	-	-	-	<1
<10	-	-	-	-	-	-	50
50	-	-	-	-	-	-	<10
<100	-	-	-	-	-	-	<100
<100	-	-	-	-	-	-	<100
<10	-	-	-	-	-	-	<10
10	-	-	-	-	-	-	20
<4	-	-	-	-	-	-	<4
<1.0	-	-	-	-	-	-	<1.0
<5	-	-	-	-	-	-	<5
<0.2	-	-	-	-	-	-	<0.2
<0.2	-	-	-	-	-	-	1.5
<0.5	-	-	-	-	-	-	1.3
<2	-	-	-	-	-	-	<2
<0.1	-	-	-	-	-	-	<0.1
<0.5	-	-	-	-	-	-	<0.5
<0.5	-	-	-	-	-	-	<0.5
<0.01	-	-	-	-	-	-	<0.01
<1	-	-	-	-	-	-	2
<1	-	-	-	-	-	-	<1
5	-	-	-	-	-	-	3

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 - Volumes

Date
1/05/2025
2/05/2025
3/05/2025
4/05/2025
5/05/2025
6/05/2025
7/05/2025
8/05/2025
9/05/2025
10/05/2025
11/05/2025
12/05/2025
13/05/2025
14/05/2025
15/05/2025
16/05/2025
17/05/2025
18/05/2025
19/05/2025
20/05/2025
21/05/2025
22/05/2025
23/05/2025
24/05/2025
25/05/2025
26/05/2025
27/05/2025
28/05/2025
29/05/2025
30/05/2025
31/05/2025

EPL 43 *	EPL 50 ^
Discharge volume (Megalitres)	
0.85	-
0.93	-
-	-
1.07	-
0.68	-
0.70	-
-	-
0.87	-
-	-
-	-
-	-
1.60	-
-	0.14
0.86	0.59
-	-
0.32	0.23
-	0.41
-	0.72
-	0.50
-	-
0.51	-
0.59	0.74
-	0.67
0.83	0.89
-	0.45
1.04	0.36
0.40	-
-	-
0.54	-
-	-
-	-

EPL 44	EPL 45	EPL 47	EPL 48	EPL 49
Discharge volume (Megalitres)				
0.37	0.05	0.22	0.07	1.10
0.30	0.05	0.22	0.09	0.95
0.24	0.05	0.22	0.08	0.62
0.45	0.05	0.22	0.07	0.60
0.18	0.03	0.18	0.10	0.33
0.60	0.05	0.26	0.07	0.72
0.21	0.05	0.17	0.08	0.59
0.26	0.04	0.25	0.55	0.76
0.13	0.05	0.25	0.11	0.52
0.44	0.08	0.16	-0.23	0.71
0.43	0.05	0.21	0.08	0.71
0.39	0.05	0.21	0.08	0.48
0.11	0.04	0.23	0.07	0.53
0.74	0.04	0.22	-0.06	0.66
0.29	0.05	0.26	77.78	0.52
0.50	0.05	0.16	0.07	0.46
0.23	0.04	0.24	0.07	0.52
0.32	0.06	0.23	-77.64	0.56
0.43	0.08	0.27	77.79	0.54
0.29	0.07	0.20	0.08	0.64
0.30	0.03	0.09	-77.86	0.51
0.24	0.03	0.09	77.97	0.35
0.57	0.21	0.52	0.88	0.62
0.44	0.07	0.27	-0.71	0.33
0.35	0.05	0.22	0.12	0.36
0.46	0.06	0.26	0.08	0.29
0.32	0.04	0.21	0.10	0.58
0.25	0.02	0.12	-78.45	0.54
0.25	0.02	0.12	78.63	0.71
0.28	0.12	0.37	0.07	0.60
0.36	0.05	0.20		

- 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 June 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=PEO%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.	
Groundwater Results: Results for groundwater bores surrounding Lick Hole Gully have reported elevated concentrations of nutrients and select dissolved heavy metals. These heavy metals have been reported previously as being above adopted WQO's. Increasing levels of nutrients have been reported at EPL56 and EPL57, similar to results reported down gradient of GF01. This may indicate that these bores are no longer representative of up gradient water quality. Investigations are underway to redrill EPL56 and EPL57 in more suitable locations. Reservoir Results: Increases in nutrients (particularly ammonia) in Tantangara Reservoir observed this month (EPL28, 29, 32, 38, 40, 46, 51) are likely associated with decomposition of algal biomass generated during the summer months, exacerbated by low water levels. Detection of thermotolerant coliforms in in Talbingo Reservoir (51 CFU/100mL at EPL11) is within the 90th percentile concentration limits and likely attributable to wildlife. Surface Water Results: Exceedances in nutrients and conductivity have been reported at EPL24 and EPL122, consistent with previously recorded data. These sites have low flow and water level which contributes to the high concentrations. Increases in nutrients at EPL33 was also observed, consistent with increases in nutrients at the upstream locations in the Tantangara reservoir. As expected, exceedances were noted in leachate storage infrastructure. Discharge Results: Results for the discharge locations met the adopted WQO's for the periods of discharge. A minor exceedance in pH was detected on the day of testing (15/06/2025) at EPL41, with no recorded discharge occurring on this day.	

The publication of this pollution monitoring data is carried out in accordance with section 66 (6) of the Protection of the Environment Operations Act 1997 (NSW).
Snowy Hydro Limited gives no warranty or representation regarding the data suitability for any particular purpose.
Snowy Hydro Limited excludes all liability to any person for loss or damage of any kind (however caused, including but not limited to by negligence) arising whether directly or indirectly from or relating in any way to the use of this data, whether in whole or in part.

Snowy Hydro 2.0 Main Works
Monthly EPL Sampling: 01-30 June 2025 - Groundwater

Analyte	Unit	Limit of Reporting	Water Quality Objective Value*
Physicochemical			
pH	pH Unit	-	6.5-8
Electrical Conductivity	µS/cm	-	30-350
Oxidation Reduction Potential	mV	-	No Water Quality Objective Value
Temperature	°C	-	No Water Quality Objective Value
Dissolved Oxygen	% saturation	-	No Water Quality Objective Value
Turbidity	NTU	-	No Water Quality Objective Value
Laboratory analytes			
TSS	mg/L	5	No Water Quality Objective Value
Hardness as CaCO ₃	mg/L	1	No Water Quality Objective Value
Nutrients			
Ammonia as N	µg/L	10	13
Nitrite + Nitrate as N (NO _x)	µg/L	10	15
Kjeldahl Nitrogen Total	µg/L	100	No Water Quality Objective Value
Nitrogen (Total)	µg/L	100	250
Reactive Phosphorus	µg/L	1	15
Phosphorus (Total)	µg/L	10	20
Inorganics			
Cyanide Total	µg/L	4	4
Hydrocarbons			
Oil and Grease	mg/L	1	5
Metals			
Aluminium (total)	µg/L	5	No Water Quality Objective Value
Aluminium (dissolved)	µg/L	5	27
Arsenic (total)	µg/L	0.2	No Water Quality Objective Value
Arsenic (dissolved)	µg/L	0.2	0.8
Chromium (III+VI) (total)	µg/L	0.2	No Water Quality Objective Value
Chromium (III+VI) (dissolved)	µg/L	0.2	0.01
Copper (total)	µg/L	0.5	No Water Quality Objective Value
Copper (dissolved)	µg/L	0.5	-
Iron (total)	µg/L	2	No Water Quality Objective Value
Iron (dissolved)	µg/L	2	300
Lead (total)	µg/L	0.1	No Water Quality Objective Value
Lead (dissolved)	µg/L	0.1	1
Manganese (total)	µg/L	0.5	No Water Quality Objective Value
Manganese (dissolved)	µg/L	0.5	1,200
Nickel (total)	µg/L	0.5	No Water Quality Objective Value
Nickel (dissolved)	µg/L	0.5	3
Silver (total)	µg/L	0.01	-
Silver (dissolved)	µg/L	0.01	0.02
Zinc (total)	µg/L	1	No Water Quality Objective Value
Zinc (dissolved)	µg/L	1	2.4

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
2/06/2025	2/06/2025	2/06/2025	14/06/2025	14/06/2025	14/06/2025	14/06/2025	-	21/06/2025	21/06/2025	21/06/2025	21/06/2025	21/06/2025	21/06/2025	21/06/2025	8/06/2025	2/06/2025	8/06/2025	8/06/2025	2/06/2025	2/06/2025	2/06/2025	2/06/2025	-	14/06/2025	14/06/2025	14/06/2025	14/06/2025	14/06/2025	14/06/2025	14/06/2025	14/06/2025
7.86	8.13	5.99	7.68	7.15	7.45	6.73	-	8.01	8.02	7.71	8.24	6.68	8.14	8.37	5.96	6.76	6.66	7.08	6.85	5.96	7.01	6.7	-	11.28	12.37	11.81	7.71	11.33	9.89	10.63	11.49
163	168	684	21	50	95	54	-	769	784	2380	683	650	684	259	301	162	341	192	113	566	263	317	-	157	64	217	102	302	287	112	107
195	180	213	307	300	285	309	-	123	32	2	105	159	55	148	109	80	126	109	57	211	215	144	-	216	344	316	205	52	137	150	26
13.14	15.79	16.12	11.87	9.88	9.80	8.5	-	15.11	13.84	16.57	16.57	15.44	14.49	13.96	12.87	14.62	14.12	14.23	13.29	15.08	13.64	14.5	-	11.28	12.37	11.81	7.71	11.33	9.89	10.63	11.49
15.9	34.8	19.3	66	41.9	49.1	92.3	-	18.4	15	21.1	12.2	20	86.1	27.5	90.4	16	70.5	97.1	47.7	29.1	23.8	13.2	-	89.7	49.5	88.8	34.8	28.9	74.5	68.9	28.7
22.9	95.8	80.6	4.4	9	25.1	144	-	29.2	1000	43.8	44.5	177	0	305	599	21.1	365	97.1	120	70.1	1000	33.1	-	13.6	11.5	8.5	107	0	123	149	64
<5	40	<5	<5	<5	54	10	-	26	1,850	134	20	105	7	445	422	40	444	40	72	10	590	34	-	<5	<5	<5	138	22	280	564	118
125	110	352	<1	2	20	11	-	391	452	1,180	158	188	149	61	30	109	42	119	76	318	135	145	-	<1	7	61	52	196	170	47	39
70	<10	10	30	20	60	40	-	30	80	120	30	<10	180	10	20	90	20	20	30	40	<10	<10	-	<10	<10	20	20	40	<10	<10	20
120	1,500	65,200	800	200	750	80	-	<10	<10	30	1,540	14,100	<10	100	3,880	40	40	30	<10	58,900	11,300	400	-	840	250	<6,070	30	<10	<10	80	40
100	300	7,800	<100	<100	100	100	-	200	1,300	300	300	300	200	<100	900	200	100	100	100	12,600	<2,000	100	-	<100	<100	400	400	100	200	100	200
200	1,800	73,000	700	200	800	200	-	200	1,300	300	1,800	14,400	200	100	4,800	200	100	100	100	71,500	11,200	500	-	800	200	6,500	400	100	200	200	200
<10	<10	<10	<10	<10	20	20	-	<10	<10	<10	30	30	30	<10	<10	<10	<10	<10	<10	<10	<10	<10	-	30	<10	<10	<10	<10	<10	<10	<10
60	110	20	30	30	50	90	-	200	1,120	90	30	60	130	140	460	60	150	60	40	30	<50	30	-	30	<10	10	60	20	50	210	
<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
<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
40	1,020	5	229	499	2,230	153	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<5	<5	<5	<5	<5	<5	8	-	<5	<5	<5	<5	<5	<5	<5	26	<5	<5	<5	<5	<5	<5	<5	-	<5	<5	10	13	<5	<5	<5	<5
<0.2	1.4	<0.2	<0.2	<0.2	0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<0.2	2.9	<0.2	<0.2	<0.2	<0.2	<0.2	-	0.7	6.2	11.6	1.5	<0.2	7.1	0.2	0.2	1.0	0.4	1.3	1.0	1.3	<0.2	<0.2	-	<0.2	<0.2	0.3	0.3	0.4	0.4	0.5	1.1
<0.2	2.8	0.6	0.3	0.6	1.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<0.2	<0.2	0.3	<0.2	<0.2	<0.2	<0.2	-	<0.2	<0.2	<0.2	0.3	0.5	0.2	<0.2	0.3	<0.2	<0.2	<0.2	<0.2	<0.2	0.5	<0.2	-	<0.2	0.2	0.3	<0.2	<0.2	0.2	<0.2	
2.0	22.2	26.7	0.5	2.0	33.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<0.5	0.6	7.0	<0.5	1.1	15.2	2.2	-	0.6	3.8	<0.5	42.4	3.4	0.8	8.2	13.1	<0.5	<0.5	<0.5	<0.5	36.9	<0.5	<0.5	-	7.7	1.3	4.0	91.3	<0.5	<0.5	81.8	<0.5
66	1,210	5	108	276	1,260	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<2	<2	<2	<2	2	<2	<2	-	<2	2	1,790	8	<2	2	3	69	296	<2	<2	<2	<2	<2	<2	<2	<2	2	<2	22	8	<2	<2	2,280
0.2	2.7	1.5	<0.1	0.2	0.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<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	0.4	<0.1	<0.1	0.1	<0.1	<0.1	-	<0.1	<0.1	0.2	<0.1	<0.1	<0.1	<0.1	
174	19.1	8.6	3.4	7.5	27.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12.5	70.7	8.3	2.6	0.8	2.2	5.4	-	213	355	444	55.7	49.9	232	53.8	30.1	407	78.4	18.0	283	250	28.5	427	-	0.9	3.9	46.6	82.6	309	326	68.0	410
<0.5	4.2	4.7	0.5	<0.5	0.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<0.5	<0.5	3.5	<0.5	<0.5	<0.5	1.5	-	21.3	3.6	0.5	21.2	20.3	3.4	1.8	8.8	0.8	2.2	<0.5	0.8	13.2	1.7	2.3	-	<0.5	<0.5	7.4	1.2	3.6	0.5	3.7	3.5
<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	0.02	<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	0.02	<0.01	<0.01	<0.01	<0.01	
6	10	11	3	2	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	<1	7	4	1	<1	6	-	9	3	2	6	2	4	2	24	1	14	1	4	52	1	42	-	<1	<1	28	4	<1	<1	4	<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 211266.

- Sample not required at this location.

Snowy Hydro 2.0 Main Works

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

Analyte	Unit	Limit of Reporting	Water Quality Objective Value*
Field			
pH	pH Unit	-	6.5-8
Electrical Conductivity	µS/cm	-	20-30
Oxidation Reduction Potential	mV	-	No Water Quality Objective Value
Temperature	°C	-	No Water Quality Objective Value
Dissolved Oxygen	% saturation	-	90-110
Turbidity	NTU	-	1-20
Laboratory analytes			
Total suspended solids	mg/L	5	No Water Quality Objective Value
Hardness as CaCO ₃	mg/L	1	No Water Quality Objective Value
Nutrients			
Ammonia as N	µg/L	10	10
Nitrite + Nitrate as N (NO _x)	µg/L	10	10
Kjeldahl Nitrogen Total	µg/L	100	No Water Quality Objective Value
Nitrogen (Total)	µg/L	100	350
Reactive Phosphorus	µg/L	1	5
Phosphorus (Total)	µg/L	10	10
Inorganics			
Cyanide Total	µg/L	4	7
Hydrocarbons			
Oil and Grease	mg/L	1	5
Metals			
Aluminium (dissolved)	µg/L	5	55
Arsenic (dissolved)	µg/L	0.2	13
Chromium (III+VI) (dissolved)	µg/L	0.2	1
Copper (dissolved)	µg/L	0.5	14
Iron (dissolved)	µg/L	2	300
Lead (dissolved)	µg/L	0.1	3.4
Manganese (dissolved)	µg/L	0.5	1,900
Nickel (dissolved)	µg/L	0.5	11
Silver (dissolved)	µg/L	0.01	0.05
Zinc (dissolved)	µg/L	1	8
Biological			
Faecal Coliforms	CFU/100mL	1	10/100 [^]
Biochemical Oxygen Demand	mg/L	2	1/5 [^]

* 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.

EPL10	EPL11	EPL28	EPL29	EPL32	EPL38	EPL39	EPL40	EPL46	EPL51	EPL107	EPL108	EPL109
22/06/2025	22/06/2025	29/06/2025	29/06/2025	29/06/2025	14/06/2025	14/06/2025	29/06/2025	29/06/2025	29/06/2025	22/06/2025	22/06/2025	22/06/2025
7.98	7.97	7.62	8.02	7.87	7.66	7.61	7.37	7.2	8.46	7.95	7.96	8.05
39	36	27	37	35	33	20	26	31	62	33	29	31
284	285	171	131	142	240	266	182	203	109	281	273	255
8.22	8.66	3.37	5.55	4.96	6.41	6.96	3.14	3.8	6.58	9.13	9.17	9.36
73	95.7	79	68.3	65.9	72.8	81.3	73	89.2	71.3	98.6	99.9	104.3
2.9	3.8	1.8	0	0	5.1	5.1	2.1	1.9	0.5	3.4	2.8	3.2
<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
14	14	5	5	5	2	<1	5	9	9	12	12	12
80	10	70	160	150	170	<10	70	170	310	30	10	50
30	20	60	60	40	30	50	70	40	40	30	20	30
200	200	500	700	1,000	500	100	400	600	700	200	100	300
200	200	600	800	1,000	500	200	500	600	700	200	100	300
<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
20	40	<10	<10	10	20	<10	10	40	30	<10	<10	30
<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
<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	<5	47	39	38	39	32	54	36	38	<5	<5	<5
0.3	0.3	<0.2	0.3	0.3	0.4	<0.2	<0.2	0.4	0.4	0.2	0.2	0.2
<0.2	<0.2	0.2	<0.2	0.3	<0.2	<0.2	<0.2	0.2	0.2	<0.2	<0.2	<0.2
<0.5	<0.5	0.9	0.6	1.0	<0.5	<0.5	0.8	0.6	0.8	<0.5	<0.5	<0.5
14	11	93	112	119	115	52	96	111	114	10	10	5
<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
3.3	1.0	13.6	19.1	20.1	12.1	3.8	13.2	20.4	20.4	0.7	0.7	<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
<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1	51**	4	-	-	-	-	-	-	<1	-	-	-
2	<2	<2	-	-	-	-	-	-	<2	-	-	-

Monthly EPL Sampling: 01-30 June 2025 - Surface Water

Analyte	Unit	Limit of Reporting	Water Quality Objective Value *
Field			
pH		-	6.5-8
Electrical Conductivity	µS/cm		20-250
Oxidation Reduction Potential	mV		No Water Quality Objective Value
Temperature	°C		No Water Quality Objective Value
Dissolved Oxygen	% saturation		90-110
Turbidity	NTU		2-25
Laboratory analytes			
TSS	mg/L	5	No Water Quality Objective Value
Hardness as CaCO ₃	mg/L	1	No Water Quality Objective Value
Nutrients			
Ammonia as N	µg/L	10	13
Nitrite + Nitrate as N (NO _x)	µg/L	10	15
Nitrate+Nitrogen (Total)	µg/L	100	No Water Quality Objective Value
Nitrogen (Total)	µg/L	100	250
Reactive Phosphorus	µg/L	1	15
Phosphorus (Total)	µg/L	10	20
Inorganics			
Cyanide Total	µg/L	4	4
Hydrocarbons			
Oil and Grease	mg/L	1	5
Metals			
Aluminum (total)	µg/L	5	No Water Quality Objective Value
Aluminum (dissolved)	µg/L	5	27
Arsenic (total)	µg/L	0.2	No Water Quality Objective Value
Arsenic (dissolved)	µg/L	0.2	0.8
Chromium (III+VI) (total)	µg/L	0.2	No Water Quality Objective Value
Chromium (III+VI) (dissolved)	µg/L	0.2	0.01
Copper (total)	µg/L	0.5	No Water Quality Objective Value
Copper (dissolved)	µg/L	0.5	1
Iron (total)	µg/L	2	No Water Quality Objective Value
Iron (dissolved)	µg/L	2	300
Lead (total)	µg/L	0.1	No Water Quality Objective Value
Lead (dissolved)	µg/L	0.1	1
Manganese (total)	µg/L	0.5	No Water Quality Objective Value
Manganese (dissolved)	µg/L	0.5	1,200
Nickel (total)	µg/L	0.5	No Water Quality Objective Value
Nickel (dissolved)	µg/L	0.5	8
Silver (total)	µg/L	0.01	No Water Quality Objective Value
Silver (dissolved)	µg/L	0.01	0.01
Zinc (total)	µg/L	1	No Water Quality Objective Value
Zinc (dissolved)	µg/L	1	2.4

[illegible]

* 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.

Snowy Hydro 2.0 Main Works
Monthly EPL Sampling: 01-30 June 2025 - Discharge Water

Analyte	Unit	Limit of Reporting	Water Quality Objective Value*
Flow Rate			
Inflow [#]	ML/day	-	-
Outflow [#]	ML/day	-	4.32 (EPL 43 / 50)
Field			
pH	pH Unit	-	6.5-8.5
Electrical Conductivity	µS/cm	-	700 (EPL 41) / 200 (EPL 50)
Oxidation Reduction Potential	mV	-	No Water Quality Objective Value
Temperature	°C	-	15
Dissolved Oxygen	% saturation	-	No Water Quality Objective Value
Turbidity	NTU	-	<25
Laboratory analytes			
Total suspended solids	mg/L	5	5/10
Hardness as CaCO ₃	mg/L	1	No Water Quality Objective Value
Nutrients			
Ammonia as N	µg/L	10	200/2000 [^]
Nitrite + Nitrate as N (NO _x)	µg/L	10	10
Kjeldahl Nitrogen Total	µg/L	100	No Water Quality Objective Value
Nitrogen (Total)	µg/L	100	350/- [^]
Reactive Phosphorus	µg/L	1	No Water Quality Objective Value
Phosphorus (Total)	µg/L	10	100/300 [^]
Inorganics			
Cyanide Total	µg/L	4	No Water Quality Objective Value
Hydrocarbons			
Oil and Grease	mg/L	1	2/5 [^]
Metals			
Aluminium (dissolved)	µg/L	5	55
Arsenic (dissolved)	µg/L	0.2	13
Chromium (III+VI) (dissolved)	µg/L	0.2	1
Copper (dissolved)	µg/L	0.5	14
Iron (dissolved)	µg/L	2	300
Lead (dissolved)	µg/L	0.1	3.4
Manganese (dissolved)	µg/L	0.5	1,900
Nickel (dissolved)	µg/L	0.5	11
Silver (dissolved)	µg/L	0.01	0.05
Zinc (dissolved)	µg/L	1	8
Biological			
Faecal Coliforms	CFU/100mL	1	10/100 [^]
Biological Oxygen Demand	mg/L	2	5

EPL 41	EPL 43	EPL 44	EPL 45	EPL 47	EPL 48	EPL 49	EPL 50
15/06/2025							29/06/2025
-	0.0000	0.2339	0.0643	0.2230	0.0793	0.2703	-
-	-	-	-	-	-	-	-
8.58	-	-	-	-	-	-	6.85
4	-	-	-	-	-	-	51
216	-	-	-	-	-	-	313
12.49	-	-	-	-	-	-	7.86
97	-	-	-	-	-	-	68.2
1.3	-	-	-	-	-	-	0
<5	-	-	-	-	-	-	<5
<1	-	-	-	-	-	-	<1
<10	-	-	-	-	-	-	50
90	-	-	-	-	-	-	<10
<100	-	-	-	-	-	-	400
<100	-	-	-	-	-	-	400
<10	-	-	-	-	-	-	<10
<10	-	-	-	-	-	-	<10
<4	-	-	-	-	-	-	26
<1.0	-	-	-	-	-	-	<1.0
<5	-	-	-	-	-	-	<5
<0.2	-	*	-	-	-	-	<0.2
<0.2	-	*	-	-	-	-	0.8
<0.5	-	*	-	-	-	-	<0.5
<2	-	*	-	-	-	-	<2
<0.1	-	*	-	-	-	-	<0.1
<0.5	-	*	-	-	-	-	<0.5
<0.5	-	*	-	-	-	-	<0.5
<0.01	-	*	-	-	-	-	<0.01
<1	-	-	-	-	-	-	<1
<1	-	-	-	-	-	-	<1
<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: 01-30 June 2025 - Volumes

Date
1/06/2025
2/06/2025
3/06/2025
4/06/2025
5/06/2025
6/06/2025
7/06/2025
8/06/2025
9/06/2025
10/06/2025
11/06/2025
12/06/2025
13/06/2025
14/06/2025
15/06/2025
16/06/2025
17/06/2025
18/06/2025
19/06/2025
20/06/2025
21/06/2025
22/06/2025
23/06/2025
24/06/2025
25/06/2025
26/06/2025
27/06/2025
28/06/2025
29/06/2025
30/06/2025

EPL 43 *	EPL 50 ^
Discharge volume (Megalitres)	
-	-
-	-
-	-
0.76	-
-	-
-	0.53
-	0.08
-	0.11
-	0.31
-	0.50
1.32	-
-	-
-	0.39
-	0.92
-	0.18
-	0.34
-	0.26
-	0.05
1.65	0.08
-	-
-	0.35
-	-
-	0.52
0.39	0.76
-	0.66
-	0.63
0.59	1.00
-	0.60
0.40	0.40
0.23	0.89

EPL 44	EPL 45	EPL 47	EPL 48	EPL 49
Discharge volume (Megalitres)				
0.29	0.04	0.23	0.04	0.75
0.51	0.05	0.19	0.13	0.71
0.42	0.05	0.17	0.09	0.69
0.40	0.04	0.16	0.09	0.63
0.20	0.02	0.20	0.06	0.09
0.01	0.06	0.30	0.10	0.29
0.67	0.06	0.17	0.10	0.73
0.48	0.07	0.27	0.08	0.61
0.41	0.06	0.23	0.07	0.48
0.36	0.10	0.23	0.08	0.32
0.12	0.07	0.25	0.08	0.63
0.14	0.10	0.32	0.11	0.66
0.13	0.03	0.10	0.04	0.31
0.24	0.07	0.25	0.09	0.46
0.03	0.06	0.21	0.07	0.16
0.04	0.06	0.20	0.06	0.08
0.04	0.07	0.23	0.08	0.11
0.03	0.07	0.38	0.07	0.11
0.02	0.07	0.06	0.07	0.03
0.01	0.07	0.23	0.08	0.02
0.04	0.08	0.24	0.08	0.09
0.16	0.07	0.22	0.08	0.06
0.29	0.11	0.21	0.05	0.01
0.25	0.07	0.21	0.08	0.02
0.39	0.08	0.23	0.08	0.03
0.39	0.07	0.32	0.08	0.002
0.20	0.07	0.18	0.08	0.001
0.03	0.07	0.26	0.09	0.0004
0.30	0.06	0.24	0.09	0.001
0.39	0.06	0.22	0.07	0.002

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 7.75 L/s
- ^ The maximum flow rate capacity for Tantangara STP/PWTP during the reporting month was 7.63 L/s
- Water not discharged on this day

Snowy Hydro 2.0 Main Works EPL Sampling: 01 - 31 July 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 23 July 2025, 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.	
Groundwater Results: EPL56 has elevated concentrations of total nitrogen (TN) at 400ug/L, but the downgradient locations recorded increased concentrations of EPL57 of 2080ug/L, and EPL58 at 53,400 ug/L. EPL57 and EPL58 have increased significantly, and it is evident in the results that the TN has risen as we get further down the watercourse. The phosphorus has not increased in the same trends seen for TN, although they are above the WQO's, they are not linear in their values. EPL95 which is measured at similar depths to EPL58 slightly lower exceedances but similar concentrations for TN. The results for TN within Tantangara groundwater sampling locations (EPL68, 69, 103, 104, 105) are all exceeding with differing levels, none of which are linear or displaying obvious trends displaying correlation between upgradient and down gradient locations. The reported elevated concentrations for ground water locations within Lickhole Gully have previously been recorded above the WQO's for TN. Heavy metals have been reported for multiple sites as above WQO's. More specifically, GF01 (Nickel, Zinc, Copper, Iron, and Arsenic – all dissolved), Lickhole Gully (Arsenic, Chromium, Copper, Iron, Nickel, and Zinc), Ravine Bay (Aluminium, Chromium, Copper, Zinc). Reservoir Results: The results for Talbingo reservoir returned concentrations that indicate the environmental conditions are consistent with the ambient conditions. Although Ammonia has indicated an exceedance at EPL107, it is within the objectives for the other locations up and down stream for the reservoir. All other parameters have been recorded within the WQO's, other than the Nitrite and Nitrates which are slightly above, although the Total Nitrogen is below the objectives. For Tantangara Reservoir there are more nutrient levels exceeding our WQO's for most locations sampled within the area. Ammonia is slightly exceeding for all locations but EPL39 and EPL40, which is upstream of construction. Total Nitrogen, Reactive and Total Phosphorus have exceeded for most of the locations on the reservoir. Aluminium is the only metal that has returned concentrations above the WQO's for the locations on the reservoir. These concentration levels for parameters exceeding the WQO's have been recorded from previous sample periods for these locations. Surface Water Results: EPL24 has returned elevated concentrations of TN although all other parameters except for Zinc have identified all other parameters have met the WQO's for this location. Locations along the natural water ways of the Murrumbidgee River, Nungar creek, and Eucumbene River have returned slight exceedances for TN, Phosphorus, and some select heavy metals. EPL52 and EPL555 located within the GF01 area have returned exceedances for TN at levels that have been recorded and reported on from previous sampling periods. There are a few select heavy metals that are also exceeding for these locations, however EPL55 is below EPL52 in location, and as such is showing lesser concentration volumes than EPL52. Discharge Results: Results for the discharge locations met the adopted Water Quality Objectives (WQOs) during the discharge periods.	

The publication of this pollution monitoring data is carried out in accordance with section 66 (6) of the Protection of the Environment Operations Act 1997 (NSW).

Snowy Hydro Limited gives no warranty or representation regarding the data suitability for any particular purpose.

Snowy Hydro Limited excludes all liability to any person for loss or damage of any kind (however caused, including but not limited to by negligence) arising whether directly or indirectly from or relating in any way to the use of this data, whether in whole or in part.

[illegible]

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

Snowy Hydro 2.0 Main Works
Monthly EPL Sampling: 01-31 July 2025 - Talbingo and Tantangara Reservoir

Analyte	Unit	Limit of Reporting	Water Quality Objective Value*
Field			
pH	pH Unit	-	6.5-8
Electrical Conductivity	µS/cm	-	20-30
Oxidation Reduction Potential	mV	-	No Water Quality Objective Value
Temperature	°C	-	No Water Quality Objective Value
Dissolved Oxygen	% saturation	-	90-110
Turbidity	NTU	-	1-20
Laboratory analytes			
Total suspended solids	mg/L	5	No Water Quality Objective Value
Hardness as CaCO ₃	mg/L	1	No Water Quality Objective Value
Nutrients			
Ammonia as N	µg/L	10	10
Nitrite + Nitrate as N (NO _x)	µg/L	10	10
Kjeldahl Nitrogen Total	µg/L	100	No Water Quality Objective Value
Nitrogen (Total)	µg/L	100	350
Reactive Phosphorus	µg/L	1	5
Phosphorus (Total)	µg/L	10	10
Inorganics			
Cyanide Total	µg/L	4	7
Hydrocarbons			
Oil and Grease	mg/L	1	5
Metals			
Aluminium (dissolved)	µg/L	5	55
Arsenic (dissolved)	µg/L	0.2	13
Chromium (III+VI) (dissolved)	µg/L	0.2	1
Copper (dissolved)	µg/L	0.5	14
Iron (dissolved)	µg/L	2	300
Lead (dissolved)	µg/L	0.1	3.4
Manganese (dissolved)	µg/L	0.5	1,900
Nickel (dissolved)	µg/L	0.5	11
Silver (dissolved)	µg/L	0.01	0.05
Zinc (dissolved)	µg/L	1	8
Biological			
Faecal Coliforms	CFU/100mL	1	10/100 ^A
Biochemical Oxygen Demand	mg/L	2	1/5 ^A

* 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

^A 90th percentile concentration limits / 100 percentile concentration limits

- Sample not required at this location.

EPL10	EPL11	EPL28	EPL29	EPL32	EPL38	EPL39	EPL40	EPL46	EPL51	EPL107	EPL108	EPL109
27/07/2025	27/07/2027	20/07/2025	20/07/2025	20/07/2025	5/07/2025	5/07/2025	20/07/2025	20/07/2025	20/07/2025	22/07/2025	22/07/2025	22/07/2025
8.38	7.83	7.09	7.19	7.13	7.4	6.69	7.29	7.28	7.2	7.32	7.38	7.58
37	30	11.4	17.9	18	29	13	10.7	18.7	18.2	21	21	21
116	133	113	173.1	171	285	299	177.6	118	144	169	175	166
8.11	8.63	4.1	5.7	5.5	6.77	6.47	3.7	5.2	5.5	9.4	9.3	9.6
93.3	115.5	83.9	86.9	86.6	64	69.4	85.5	85.9	86.5	92.1	91	91.5
3.4	2.2	2.86	3.76	3.9	10.5	5.2	2.14	4.01	4.28	0.85	1.04	0.8
<5	<5	<5	<5	<5	14	<5	<5	<5	<5	<5	<5	<5
12	12	2	5	5	5	<1	2	5	5	5	5	5
<10	<10	30	110	90	120	<10	<10	160	120	50	10	<10
50	30	30	60	60	80	30	20	60	60	30	30	30
200	200	100	300	300	400	200	<100	400	300	200	100	200
200	200	100	400	400	500	200	<100	500	400	200	100	200
<10	<10	<10	<10	<10	10	10	<10	<10	<10	<10	<10	<10
<10	20	10	<10	<10	50	40	<10	30	30	<10	<10	20
<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
<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
12	11	49	58	62	45	41	24	56	60	<5	<5	7
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
0.7	<0.2	0.2	0.3	0.3	<0.2	<0.2	<0.2	0.3	0.3	<0.2	<0.2	<0.2
<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
17	12	60	130	130	119	40	24	128	131	6	4	4
<0.1	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.2	0.2
1.6	0.7	6.7	18.9	19.9	36.2	4.3	1.8	20.3	19.8	<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
<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
2	<1	<1	<1	<1	3	2	<1	<1	<1	<1	<1	<1
6	2	<1	-	-	-	-	-	-	<1	-	-	-
<2	<2	3	-	-	-	-	-	-	<2	-	-	-

Snowy Hydro 2.0 Main Works
 Monthly EPA Sampling: 01-31 July 2025 - Surface Water

Analyte	Unit	Unit of Reporting	Water Quality Objective Value*	EP13	EP14	EP15	EP16	EP17	EP18	EP19	EP20	EP21	EP22	EP23	EP24	EP25	EP26	EP27	EP28	EP29	EP30	EP31	EP32	EP33	EP34	EP35	EP36	EP37	EP38	EP39	EP40	EP41	EP42	EP43	EP44	EP45	EP46	EP47	EP48	EP49	EP50	EP51	EP52	EP53	EP54	EP55	EP56	EP57	EP58	EP59	EP60	EP61	EP62	EP63	EP64	EP65	EP66	EP67	EP68	EP69	EP70	EP71	EP72	EP73	EP74	EP75	EP76	EP77	EP78	EP79	EP80	EP81	EP82	EP83	EP84	EP85	EP86	EP87	EP88	EP89	EP90	EP91	EP92	EP93	EP94	EP95	EP96	EP97	EP98	EP99	EP100	EP101	EP102	EP103	EP104	EP105	EP106	EP107	EP108	EP109	EP110	EP111	EP112	EP113	EP114	EP115	EP116	EP117	EP118	EP119	EP120	EP121	EP122	EP123	EP124	EP125	EP126	EP127	EP128	EP129	EP130	EP131	EP132	EP133	EP134	EP135	EP136	EP137	EP138	EP139	EP140	EP141	EP142	EP143	EP144	EP145	EP146	EP147	EP148	EP149	EP150	EP151	EP152	EP153	EP154	EP155	EP156	EP157	EP158	EP159	EP160	EP161	EP162	EP163	EP164	EP165	EP166	EP167	EP168	EP169	EP170	EP171	EP172	EP173	EP174	EP175	EP176	EP177	EP178	EP179	EP180	EP181	EP182	EP183	EP184	EP185	EP186	EP187	EP188	EP189	EP190	EP191	EP192	EP193	EP194	EP195	EP196	EP197	EP198	EP199	EP200	EP201	EP202	EP203	EP204	EP205	EP206	EP207	EP208	EP209	EP210	EP211	EP212	EP213	EP214	EP215	EP216	EP217	EP218	EP219	EP220	EP221	EP222	EP223	EP224	EP225	EP226	EP227	EP228	EP229	EP230	EP231	EP232	EP233	EP234	EP235	EP236	EP237	EP238	EP239	EP240	EP241	EP242	EP243	EP244	EP245	EP246	EP247	EP248	EP249	EP250	EP251	EP252	EP253	EP254	EP255	EP256	EP257	EP258	EP259	EP260	EP261	EP262	EP263	EP264	EP265	EP266	EP267	EP268	EP269	EP270	EP271	EP272	EP273	EP274	EP275	EP276	EP277	EP278	EP279	EP280	EP281	EP282	EP283	EP284	EP285	EP286	EP287	EP288	EP289	EP290	EP291	EP292	EP293	EP294	EP295	EP296	EP297	EP298	EP299	EP300	EP301	EP302	EP303	EP304	EP305	EP306	EP307	EP308	EP309	EP310	EP311	EP312	EP313	EP314	EP315	EP316	EP317	EP318	EP319	EP320	EP321	EP322	EP323	EP324	EP325	EP326	EP327	EP328	EP329	EP330	EP331	EP332	EP333	EP334	EP335	EP336	EP337	EP338	EP339	EP340	EP341	EP342	EP343	EP344	EP345	EP346	EP347	EP348	EP349	EP350	EP351	EP352	EP353	EP354	EP355	EP356	EP357	EP358	EP359	EP360	EP361	EP362	EP363	EP364	EP365	EP366	EP367	EP368	EP369	EP370	EP371	EP372	EP373	EP374	EP375	EP376	EP377	EP378	EP379	EP380	EP381	EP382	EP383	EP384	EP385	EP386	EP387	EP388	EP389	EP390	EP391	EP392	EP393	EP394	EP395	EP396	EP397	EP398	EP399	EP400	EP401	EP402	EP403	EP404	EP405	EP406	EP407	EP408	EP409	EP410	EP411	EP412	EP413	EP414	EP415	EP416	EP417	EP418	EP419	EP420	EP421	EP422	EP423	EP424	EP425	EP426	EP427	EP428	EP429	EP430	EP431	EP432	EP433	EP434	EP435	EP436	EP437	EP438	EP439	EP440	EP441	EP442	EP443	EP444	EP445	EP446	EP447	EP448	EP449	EP450	EP451	EP452	EP453	EP454	EP455	EP456	EP457	EP458	EP459	EP460	EP461	EP462	EP463	EP464	EP465	EP466	EP467	EP468	EP469	EP470	EP471	EP472	EP473	EP474	EP475	EP476	EP477	EP478	EP479	EP480	EP481	EP482	EP483	EP484	EP485	EP486	EP487	EP488	EP489	EP490	EP491	EP492	EP493	EP494	EP495	EP496	EP497	EP498	EP499	EP500	EP501	EP502	EP503	EP504	EP505	EP506	EP507	EP508	EP509	EP510	EP511	EP512	EP513	EP514	EP515	EP516	EP517	EP518	EP519	EP520	EP521	EP522	EP523	EP524	EP525	EP526	EP527	EP528	EP529	EP530	EP531	EP532	EP533	EP534	EP535	EP536	EP537	EP538	EP539	EP540	EP541	EP542	EP543	EP544	EP545	EP546	EP547	EP548	EP549	EP550	EP551	EP552	EP553	EP554	EP555	EP556	EP557	EP558	EP559	EP560	EP561	EP562	EP563	EP564	EP565	EP566	EP567	EP568	EP569	EP570	EP571	EP572	EP573	EP574	EP575	EP576	EP577	EP578	EP579	EP580	EP581	EP582	EP583	EP584	EP585	EP586	EP587	EP588	EP589	EP590	EP591	EP592	EP593	EP594	EP595	EP596	EP597	EP598	EP599	EP600	EP601	EP602	EP603	EP604	EP605	EP606	EP607	EP608	EP609	EP610	EP611	EP612	EP613	EP614	EP615	EP616	EP617	EP618	EP619	EP620	EP621	EP622	EP623	EP624	EP625	EP626	EP627	EP628	EP629	EP630	EP631	EP632	EP633	EP634	EP635	EP636	EP637	EP638	EP639	EP640	EP641	EP642	EP643	EP644	EP645	EP646	EP647	EP648	EP649	EP650	EP651	EP652	EP653	EP654	EP655	EP656	EP657	EP658	EP659	EP660	EP661	EP662	EP663	EP664	EP665	EP666	EP667	EP668	EP669	EP670	EP671	EP672	EP673	EP674	EP675	EP676	EP677	EP678	EP679	EP680	EP681	EP682	EP683	EP684	EP685	EP686	EP687	EP688	EP689	EP690	EP691	EP692	EP693	EP694	EP695	EP696	EP697	EP698	EP699	EP700	EP701	EP702	EP703	EP704	EP705	EP706	EP707	EP708	EP709	EP710	EP711	EP712	EP713	EP714	EP715	EP716	EP717	EP718	EP719	EP720	EP721	EP722	EP723	EP724	EP725	EP726	EP727	EP728	EP729	EP730	EP731	EP732	EP733	EP734	EP735	EP736	EP737	EP738	EP739	EP740	EP741	EP742	EP743	EP744	EP745	EP746	EP747	EP748	EP749	EP750	EP751	EP752	EP753	EP754	EP755	EP756	EP757	EP758	EP759	EP760	EP761	EP762	EP763	EP764	EP765	EP766	EP767	EP768	EP769	EP770	EP771	EP772	EP773	EP774	EP775	EP776	EP777	EP778	EP779	EP780	EP781	EP782	EP783	EP784	EP785	EP786	EP787	EP788	EP789	EP790	EP791	EP792	EP793	EP794	EP795	EP796	EP797	EP798	EP799	EP800	EP801	EP802	EP803	EP804	EP805	EP806	EP807	EP808	EP809	EP810	EP811	EP812	EP813	EP814	EP815	EP816	EP817	EP818	EP819	EP820	EP821	EP822	EP823	EP824	EP825	EP826	EP827	EP828	EP829	EP830	EP831	EP832	EP833	EP834	EP835	EP836	EP837	EP838	EP839	EP840	EP841	EP842	EP843	EP844	EP845	EP846	EP847	EP848	EP849	EP850	EP851	EP852	EP853	EP854	EP855	EP856	EP857	EP858	EP85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Snowy Hydro 2.0 Main Works Monthly EPL Sampling: 01-31 July 2025 - Discharge Water

Analyte	Unit	Limit of Reporting	Water Quality Objective Value*
Flow Rate			
Inflow [#]	ML/day	-	-
Outflow [#]	ML/day	-	4.32 (EPL 43 / 50)
Field			
pH	pH Unit	-	6.5-8.5
Electrical Conductivity	µS/cm	-	700 (EPL 41) / 200 (EPL 50)
Oxidation Reduction Potential	mV	-	No Water Quality Objective Value
Temperature	°C	-	15
Dissolved Oxygen	% saturation	-	No Water Quality Objective Value
Turbidity	NTU	-	<25
Laboratory analytes			
Total suspended solids	mg/L	5	5/10
Hardness as CaCO ₃	mg/L	1	No Water Quality Objective Value
Nutrients			
Ammonia as N	µg/L	10	200/2000 [^]
Nitrite + Nitrate as N (NO _x)	µg/L	10	10
Kjeldahl Nitrogen Total	µg/L	100	No Water Quality Objective Value
Nitrogen (Total)	µg/L	100	350/- [^]
Reactive Phosphorus	µg/L	1	No Water Quality Objective Value
Phosphorus (Total)	µg/L	10	100/300 [^]
Inorganics			
Cyanide Total	µg/L	4	No Water Quality Objective Value
Hydrocarbons			
Oil and Grease	mg/L	1	2/5 [^]
Metals			
Aluminium (dissolved)	µg/L	5	55
Arsenic (dissolved)	µg/L	0.2	13
Chromium (III+VI) (dissolved)	µg/L	0.2	1
Copper (dissolved)	µg/L	0.5	14
Iron (dissolved)	µg/L	2	300
Lead (dissolved)	µg/L	0.1	3.4
Manganese (dissolved)	µg/L	0.5	1,900
Nickel (dissolved)	µg/L	0.5	11
Silver (dissolved)	µg/L	0.01	0.05
Zinc (dissolved)	µg/L	1	8
Biological			
Faecal Coliforms	CFU/100mL	1	10/100 [^]
Biological Oxygen Demand	mg/L	2	5

EPL 41	EPL 43	EPL 44	EPL 45	EPL 47	EPL 48	EPL 49	EPL 50
6/07/2025							20/07/2025
-	0.0000	0.3320	0.0647	0.2330	0.0817	0.0271	-
-	-	-	-	-	-	-	-
7.55	-	-	-	-	-	-	7.31
7	-	-	-	-	-	-	47.7
221	-	-	-	-	-	-	115.6
12.87	-	-	-	-	-	-	6.4
70.8	-	-	-	-	-	-	87.3
0.09	-	-	-	-	-	-	0.14
<5	-	-	-	-	-	-	<5
<1	-	-	-	-	-	-	<1
20	-	-	-	-	-	-	20
60	-	-	-	-	-	-	<10
<100	-	-	-	-	-	-	<100
<100	-	-	-	-	-	-	<100
<10	-	-	-	-	-	-	<10
<10	-	-	-	-	-	-	<10
<4	-	-	-	-	-	-	<4
<1.0	-	-	-	-	-	-	<1.0
<5	-	-	-	-	-	-	<5
<0.2	-	-	-	-	-	-	<0.2
<0.2	-	-	-	-	-	-	0.7
<0.5	-	-	-	-	-	-	<0.5
<2	-	-	-	-	-	-	<2
<0.1	-	-	-	-	-	-	<0.1
<0.5	-	-	-	-	-	-	<0.5
<0.5	-	-	-	-	-	-	<0.5
<0.01	-	-	-	-	-	-	<0.01
<1	-	-	-	-	-	-	<1
<1	-	-	-	-	-	-	<1
<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 CWTTP 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 July 2025 - Volumes**

Date
1/07/2025
2/07/2025
3/07/2025
4/07/2025
5/07/2025
6/07/2025
7/07/2025
8/07/2025
9/07/2025
10/07/2025
11/07/2025
12/07/2025
13/07/2025
14/07/2025
15/07/2025
16/07/2025
17/07/2025
18/07/2025
19/07/2025
20/07/2025
21/07/2025
22/07/2025
23/07/2025
24/07/2025
25/07/2025
26/07/2025
27/07/2025
28/07/2025
29/07/2025
30/07/2025
31/07/2025

EPL 43 *	EPL 50 ^
Discharge volume (Megalitres)	
0.34	-
-	-
0.87	0.62
-	0.72
-	0.68
-	0.30
2.11	0.92
-	-
-	-
0.57	-
0.32	-
0.67	-
0.70	-
0.37	0.87
-	0.46
-	0.58
0.44	0.81
-	0.55
-	-
0.58	0.20
-	0.10
0.83	0.16
0.46	0.84
0.99	0.50
-	0.53
-	0.73
-	0.93
1.00	1.17
-	1.13
1.02	0.76
-	0.44

EPL 44	EPL 45	EPL 47	EPL 48	EPL 49
Discharge volume (Megalitres)				
0.01	0.06	0.23	0.07	0.002
0.01	0.06	0.18	0.01	0.002
0.01	0.06	0.16	0.01	0.002
0.61	0.06	0.15	0.01	0.002
0.14	0.04	0.26	0.30	0.03
0.30	0.06	0.26	0.08	0.03
0.41	0.06	0.20	0.14	0.05
0.35	0.06	0.28	0.07	0.01
0.28	0.07	0.22	0.06	0.003
0.57	0.10	0.24	0.03	0.02
0.15	0.05	0.22	0.10	0.23
0.24	0.06	0.27	0.06	0.001
0.60	0.02	0.27	0.08	0.002
0.26	0.05	0.13	0.07	0.004
0.38	0.05	0.19	0.08	0.01
0.34	0.05	0.19	0.08	0.03
0.43	0.06	0.24	0.08	0.02
0.24	0.06	0.37	0.09	0.01
0.58	0.07	0.10	0.08	0.03
0.47	0.08	0.26	0.08	0.004
0.34	0.06	0.25	0.07	0.02
0.53	0.09	0.24	0.08	0.16
0.43	0.12	0.24	0.07	0.08
0.23	0.07	0.26	0.09	0.03
0.52	0.09	0.26	0.13	0.004
0.01	0.07	0.34	0.03	0.019
0.39	0.08	0.19	0.14	0.004
0.26	0.07	0.26	0.08	0.006
0.40	0.08	0.22	0.09	0.007
0.48	0.09	0.31	0.09	0.002
0.56	0.07	0.29	0.09	0.06

- 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 6.94 L/s
- ^ The maximum flow rate capacity for Tantangara STP/PWTP during the reporting month was 3.47 L/s

Snowy Hydro 2.0 Main Works EPL Sampling: 01 - 31 August 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 23 July 2025, 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.	
Groundwater Results: In August, we were unable to sample locations EPL2, EPL4, and EPL25 due to flooding in their surrounding areas, which compromised the accurate representation of conditions in these locations. At EPL1, we observed an increase in Total Nitrogen and Nitrite + Nitrate as N concentrations, alongside a significant decrease in total phosphorus levels during this previous quarter period. In contrast, locations for sites such as GFO1, LHG, and Ravine Bay in Lobs Hole exhibited stable concentrations consistent with previous reports. Meanwhile, EPL58 and EPL95, located downstream of GFO1, continue to show the highest concentrations in the area. In the LHG region, locations including EPL81, EPL83, EPL87, and EPL89 reported Total Kjeldahl Nitrogen concentrations ranging from 500 µg/L to 1000 µg/L. Sampling points in Tantangara maintained stable pH levels between 6.1 and 6.7, although we noted an increase in NTU, likely due to the 115.4 mm of precipitation that fell in the area. Notably, EPL105 recorded the highest Total Nitrogen concentration of 4200 µg/L. Reservoir Results: For this period, sampling points within the Talbingo Reservoir showed a slight increase in Ammonia concentrations for EPL10, with a concentration of 30 µg/L, compared to EPL11, which met its WQO. However, for Nitrite + Nitrate as N (NOx), concentrations were reported between 40 µg/L and 50 µg/L, which is also the case for locations within the Tantangara Reservoir. While the majority of sampling points remained within the acceptable limits for Total Nitrogen, some, such as EPL32, showed a slight uptick, registering a concentration of 400 µg/L. Additionally, several sites, including EPL11, EPL39, and EPL51, recorded a slight increase in Total Phosphorus, with concentrations ranging from 20 µg/L to 40 µg/L. However, these values are consistent with historical data and align with baseline water quality results, indicating stability in the overall water quality within the Reservoirs. Surface Water Results: In August, some locations, including EPL5, EPL30, EPL31, EPL33, and EPL34, recorded high pH concentrations, which are within their historical ranges, fluctuating between 8.0 and 8.16. Meanwhile, EPL24, EPL55, and EPL122 continue to show the highest surface water concentrations in Lobs Hole. This is likely attributed to their location downstream of the GF01 leachate area. These locations remain under TARP conditions and are monitored weekly. Kellys Plain Creek locations, such as EPL30 and EPL31, recorded a slight increase in Dissolved Aluminium concentrations. Additionally, Total Nitrogen concentrations at locations like EPL33, EPL34, EPL36, and EPL37, which were between 200 µg/L and 500 µg/L, were influenced by Total Kjeldahl Nitrogen, which recorded similar concentration levels. As for the leachate storage locations, they maintain their conditions and are continuously monitored for water reuse once they meet the criteria. Discharge Results: Results for the discharge locations met the adopted Water Quality Objectives (WQOs) during the discharge periods.	

The publication of this pollution monitoring data is carried out in accordance with section 66 (6) of the Protection of the Environment Operations Act 1997 (NSW).

Snowy Hydro Limited gives no warranty or representation regarding the data suitability for any particular purpose.

Snowy Hydro Limited excludes all liability to any person for loss or damage of any kind (however caused, including but not limited to by negligence) arising whether directly or indirectly from or relating in any way to the use of this data, whether in whole or in part.

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

Region	Unit	Level of Reporting	Water Quality Objective Value	EP101	EP1	EP2	EP3	EP4	EP5	EP6	EP7	EP8	EP9	EP10	EP11	EP12	EP13	EP14	EP15	EP16	EP17	EP18	EP19	EP20	EP21	EP22	EP23	EP24	EP25	EP26	EP27	EP28	EP29	EP30	EP31	EP32	EP33	EP34	EP35	EP36	EP37	EP38	EP39	EP40	EP41	EP42	EP43	EP44	EP45	EP46	EP47	EP48	EP49	EP50	EP51	EP52	EP53	EP54	EP55	EP56	EP57	EP58	EP59	EP60	EP61	EP62	EP63	EP64	EP65	EP66	EP67	EP68	EP69	EP70	EP71	EP72	EP73	EP74	EP75	EP76	EP77	EP78	EP79	EP80	EP81	EP82	EP83	EP84	EP85	EP86	EP87	EP88	EP89	EP90	EP91	EP92	EP93	EP94	EP95	EP96	EP97	EP98	EP99	EP100	EP101	EP102	EP103	EP104	EP105	EP106	EP107	EP108	EP109	EP110	EP111	EP112	EP113	EP114	EP115	EP116	EP117	EP118	EP119	EP120	EP121	EP122	EP123	EP124	EP125	EP126	EP127	EP128	EP129	EP130	EP131	EP132	EP133	EP134	EP135	EP136	EP137	EP138	EP139	EP140	EP141	EP142	EP143	EP144	EP145	EP146	EP147	EP148	EP149	EP150	EP151	EP152	EP153	EP154	EP155	EP156	EP157	EP158	EP159	EP160	EP161	EP162	EP163	EP164	EP165	EP166	EP167	EP168	EP169	EP170	EP171	EP172	EP173	EP174	EP175	EP176	EP177	EP178	EP179	EP180	EP181	EP182	EP183	EP184	EP185	EP186	EP187	EP188	EP189	EP190	EP191	EP192	EP193	EP194	EP195	EP196	EP197	EP198	EP199	EP200	EP201	EP202	EP203	EP204	EP205	EP206	EP207	EP208	EP209	EP210	EP211	EP212	EP213	EP214	EP215	EP216	EP217	EP218	EP219	EP220	EP221	EP222	EP223	EP224	EP225	EP226	EP227	EP228	EP229	EP230	EP231	EP232	EP233	EP234	EP235	EP236	EP237	EP238	EP239	EP240	EP241	EP242	EP243	EP244	EP245	EP246	EP247	EP248	EP249	EP250	EP251	EP252	EP253	EP254	EP255	EP256	EP257	EP258	EP259	EP260	EP261	EP262	EP263	EP264	EP265	EP266	EP267	EP268	EP269	EP270	EP271	EP272	EP273	EP274	EP275	EP276	EP277	EP278	EP279	EP280	EP281	EP282	EP283	EP284	EP285	EP286	EP287	EP288	EP289	EP290	EP291	EP292	EP293	EP294	EP295	EP296	EP297	EP298	EP299	EP300	EP301	EP302	EP303	EP304	EP305	EP306	EP307	EP308	EP309	EP310	EP311	EP312	EP313	EP314	EP315	EP316	EP317	EP318	EP319	EP320	EP321	EP322	EP323	EP324	EP325	EP326	EP327	EP328	EP329	EP330	EP331	EP332	EP333	EP334	EP335	EP336	EP337	EP338	EP339	EP340	EP341	EP342	EP343	EP344	EP345	EP346	EP347	EP348	EP349	EP350	EP351	EP352	EP353	EP354	EP355	EP356	EP357	EP358	EP359	EP360	EP361	EP362	EP363	EP364	EP365	EP366	EP367	EP368	EP369	EP370	EP371	EP372	EP373	EP374	EP375	EP376	EP377	EP378	EP379	EP380	EP381	EP382	EP383	EP384	EP385	EP386	EP387	EP388	EP389	EP390	EP391	EP392	EP393	EP394	EP395	EP396	EP397	EP398	EP399	EP400	EP401	EP402	EP403	EP404	EP405	EP406	EP407	EP408	EP409	EP410	EP411	EP412	EP413	EP414	EP415	EP416	EP417	EP418	EP419	EP420	EP421	EP422	EP423	EP424	EP425	EP426	EP427	EP428	EP429	EP430	EP431	EP432	EP433	EP434	EP435	EP436	EP437	EP438	EP439	EP440	EP441	EP442	EP443	EP444	EP445	EP446	EP447	EP448	EP449	EP450	EP451	EP452	EP453	EP454	EP455	EP456	EP457	EP458	EP459	EP460	EP461	EP462	EP463	EP464	EP465	EP466	EP467	EP468	EP469	EP470	EP471	EP472	EP473	EP474	EP475	EP476	EP477	EP478	EP479	EP480	EP481	EP482	EP483	EP484	EP485	EP486	EP487	EP488	EP489	EP490	EP491	EP492	EP493	EP494	EP495	EP496	EP497	EP498	EP499	EP500	EP501	EP502	EP503	EP504	EP505	EP506	EP507	EP508	EP509	EP510	EP511	EP512	EP513	EP514	EP515	EP516	EP517	EP518	EP519	EP520	EP521	EP522	EP523	EP524	EP525	EP526	EP527	EP528	EP529	EP530	EP531	EP532	EP533	EP534	EP535	EP536	EP537	EP538	EP539	EP540	EP541	EP542	EP543	EP544	EP545	EP546	EP547	EP548	EP549	EP550	EP551	EP552	EP553	EP554	EP555	EP556	EP557	EP558	EP559	EP560	EP561	EP562	EP563	EP564	EP565	EP566	EP567	EP568	EP569	EP570	EP571	EP572	EP573	EP574	EP575	EP576	EP577	EP578	EP579	EP580	EP581	EP582	EP583	EP584	EP585	EP586	EP587	EP588	EP589	EP590	EP591	EP592	EP593	EP594	EP595	EP596	EP597	EP598	EP599	EP600	EP601	EP602	EP603	EP604	EP605	EP606	EP607	EP608	EP609	EP610	EP611	EP612	EP613	EP614	EP615	EP616	EP617	EP618	EP619	EP620	EP621	EP622	EP623	EP624	EP625	EP626	EP627	EP628	EP629	EP630	EP631	EP632	EP633	EP634	EP635	EP636	EP637	EP638	EP639	EP640	EP641	EP642	EP643	EP644	EP645	EP646	EP647	EP648	EP649	EP650	EP651	EP652	EP653	EP654	EP655	EP656	EP657	EP658	EP659	EP660	EP661	EP662	EP663	EP664	EP665	EP666	EP667	EP668	EP669	EP670	EP671	EP672	EP673	EP674	EP675	EP676	EP677	EP678	EP679	EP680	EP681	EP682	EP683	EP684	EP685	EP686	EP687	EP688	EP689	EP690	EP691	EP692	EP693	EP694	EP695	EP696	EP697	EP698	EP699	EP700	EP701	EP702	EP703	EP704	EP705	EP706	EP707	EP708	EP709	EP710	EP711	EP712	EP713	EP714	EP715	EP716	EP717	EP718	EP719	EP720	EP721	EP722	EP723	EP724	EP725	EP726	EP727	EP728	EP729	EP730	EP731	EP732	EP733	EP734	EP735	EP736	EP737	EP738	EP739	EP740	EP741	EP742	EP743	EP744	EP745	EP746	EP747	EP748	EP749	EP750	EP751	EP752	EP753	EP754	EP755	EP756	EP757	EP758	EP759	EP760	EP761	EP762	EP763	EP764	EP765	EP766	EP767	EP768	EP769	EP770	EP771	EP772	EP773	EP774	EP775	EP776	EP777	EP778	EP779	EP780	EP781	EP782	EP783	EP784	EP785	EP786	EP787	EP788	EP789	EP790	EP791	EP792	EP793	EP794	EP795	EP796	EP797	EP798	EP799	EP800	EP801	EP802	EP803	EP804	EP805	EP806	EP807	EP808	EP809	EP810	EP811	EP812	EP813	EP814	EP815	EP816	EP817	EP818	EP819	EP820	EP821	EP822	EP823	EP824	EP825	EP826	EP827	EP828	EP829	EP830	EP831	EP832	EP833	EP834	EP835	EP836	EP837	EP838	EP839	EP840	EP841	EP842	EP843	EP844	EP845	EP846	EP847	EP848	EP849	EP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* 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 98% of aquatic species ANZECC / ARMCANZ (2000), they are not pollutant limits imposed by EPA 21266.

Snowy Hydro 2.0 Main Works
Monthly EPL Sampling: 01-31 August 2025 - Talbingo and Tantangara Reservoir

Analyte	Unit	Limit of Reporting	Water Quality Objective Value*
Field			
pH	pH Unit	-	6.5-8
Electrical Conductivity	µS/cm	-	20-30
Oxidation Reduction Potential	mV	-	No Water Quality Objective Value
Temperature	°C	-	No Water Quality Objective Value
Dissolved Oxygen	% saturation	-	90-110
Turbidity	NTU	-	1-20
Laboratory analytes			
Total suspended solids	mg/L	5	No Water Quality Objective Value
Hardness as CaCO ₃	mg/L	1	No Water Quality Objective Value
Nutrients			
Ammonia as N	µg/L	10	10
Nitrite + Nitrate as N (NO _x)	µg/L	10	10
Kjeldahl Nitrogen Total	µg/L	100	No Water Quality Objective Value
Nitrogen (Total)	µg/L	100	350
Reactive Phosphorus	µg/L	1	5
Phosphorus (Total)	µg/L	10	10
Inorganics			
Cyanide Total	µg/L	4	7
Hydrocarbons			
Oil and Grease	mg/L	1	5
Metals			
Aluminium (dissolved)	µg/L	5	55
Arsenic (dissolved)	µg/L	0.2	13
Chromium (III+VI) (dissolved)	µg/L	0.2	1
Copper (dissolved)	µg/L	0.5	14
Iron (dissolved)	µg/L	2	300
Lead (dissolved)	µg/L	0.1	3.4
Manganese (dissolved)	µg/L	0.5	1,900
Nickel (dissolved)	µg/L	0.5	11
Silver (dissolved)	µg/L	0.01	0.05
Zinc (dissolved)	µg/L	1	8
Biological			
Faecal Coliforms	CFU/100mL	1	10/100 ^{**}
Biochemical Oxygen Demand	mg/L	2	1/5 ^{**}

EPL10	EPL11	EPL28	EPL29	EPL32	EPL38	EPL39	EPL40	EPL46	EPL51	EPL107	EPL108	EPL109
20/08/2025	20/08/2025	6/08/2025	6/08/2025	6/08/2025	6/08/2025	2/08/2025	6/08/2025	6/08/2025	6/08/2025	20/08/2025	20/08/2025	20/08/2025
7.74	7.9	7.29	6.93	6.9	6.91	7.66	6.97	6.9	6.93	8.25	8.16	7.96
50	41	22	21	22	20	19	16	23	22	70	44	36
227	207	205	239	239	233	233	222	243	239	141	175	192
8.37	7.77	5.73	4.93	4.89	4.98	5.16	5.54	4.89	4.86	6.9	6.94	7.53
61	66.3	92.9	91.4	72.5	68.1	86.2	77.2	86.1	91.3	83.2	74.9	72
2.7	0.3	12.8	7.2	6.1	6.8	3.7	4.9	6.3	7	17.9	6	6.7
<5	<5	<5	<5	<5	<5	<5	<5	7	<5	<5	<5	<5
19	14	2	2	2	2	<1	<1	2	2	12	12	12
30	<10	20	30	30	20	<10	<10	30	30	<10	<10	<10
50	50	40	40	50	40	10	10	40	40	40	40	40
200	<100	200	200	300	200	200	100	200	200	100	<100	<100
200	<100	200	200	400	200	200	100	200	200	100	<100	<100
<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
10	20	<10	<10	<10	10	40	<10	10	20	<10	<10	<10
<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
<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
10	9	50	54	55	50	40	27	52	55	8	7	6
0.3	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	0.3	0.2	<0.2	0.2	0.3	0.3	<0.2	<0.2	<0.2
<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
50	15	63	69	81	71	25	30	84	83	11	10	8
<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
47.6	3.2	7.1	7.6	9.5	8.4	3.5	4.5	10.5	10.3	1.3	0.8	<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
<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2	2	<1	-	-	-	-	-	-	23	-	-	-
<2	<2	2	-	-	-	-	-	-	3	-	-	-

* 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: 01-31 August 2025 - Surface Water

Monthly EPL Sampling: 01-31 August 2025 - Surface Water																																										
Analyte	Unit	Limit of Reporting	Water Quality Objective Values*																																							
pH																																										
	min	6.5																																								
	max	9.0																																								
	Quality Based Parameter	NA	No Water Quality Objective Value																																							
Dissolved Oxygen																																										
	min	5.0																																								
	max	10.0																																								
	Quality Based Parameter	NA	No Water Quality Objective Value																																							
Temperature																																										
	min	50.0																																								
	max	86.0																																								
	Quality Based Parameter	NA	No Water Quality Objective Value																																							
Total Dissolved Solids																																										
	min	0.0																																								
	max	500.0																																								
	Quality Based Parameter	NA	No Water Quality Objective Value																																							
Total Suspended Solids																																										
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	max	300.0																																								
	Quality Based Parameter	NA	No Water Quality Objective Value																																							
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Snowy Hydro 2.0 Main Works

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

Analyte	Unit	Limit of Reporting	Water Quality Objective Value*
Flow Rate			
Inflow [#]	ML/day	-	-
Outflow [#]	ML/day	-	4.32 (EPL 43 / 50)
Field			
pH	pH Unit	-	6.5-8.5
Electrical Conductivity	µS/cm	-	700 (EPL 41) / 200 (EPL 50)
Oxidation Reduction Potential	mV	-	No Water Quality Objective Value
Temperature	°C	-	15
Dissolved Oxygen	% saturation	-	No Water Quality Objective Value
Turbidity	NTU	-	<25
Laboratory analytes			
Total suspended solids	mg/L	5	5/10
Hardness as CaCO ₃	mg/L	1	No Water Quality Objective Value
Nutrients			
Ammonia as N	µg/L	10	200/2000 [^]
Nitrite + Nitrate as N (NO _x)	µg/L	10	10
Kjeldahl Nitrogen Total	µg/L	100	No Water Quality Objective Value
Nitrogen (Total)	µg/L	100	350/- [^]
Reactive Phosphorus	µg/L	1	No Water Quality Objective Value
Phosphorus (Total)	µg/L	10	100/300 [^]
Inorganics			
Cyanide Total	µg/L	4	No Water Quality Objective Value
Hydrocarbons			
Oil and Grease	mg/L	1	2/5 [^]
Metals			
Aluminium (dissolved)	µg/L	5	55
Arsenic (dissolved)	µg/L	0.2	13
Chromium (III+VI) (dissolved)	µg/L	0.2	1
Copper (dissolved)	µg/L	0.5	14
Iron (dissolved)	µg/L	2	300
Lead (dissolved)	µg/L	0.1	3.4
Manganese (dissolved)	µg/L	0.5	1,900
Nickel (dissolved)	µg/L	0.5	11
Silver (dissolved)	µg/L	0.01	0.05
Zinc (dissolved)	µg/L	1	8
Biological			
Faecal Coliforms	CFU/100mL	1	10/100 [^]
Biological Oxygen Demand	mg/L	2	5

EPL 41	EPL 43	EPL 44	EPL 45	EPL 47	EPL 48	EPL 49	EPL 50
13/08/2025							6/08/2025
-	0.0000	0.3754	0.0706	0.1472	0.0837	0.4190	-
-	-	-	-	-	-	-	-
7.48	-	-	-	-	-	-	6.96
14	-	-	-	-	-	-	192
186	-	-	-	-	-	-	224
12.38	-	-	-	-	-	-	9.04
98.5	-	-	-	-	-	-	60.1
0.08	-	-	-	-	-	-	3.4
<5	-	-	-	-	-	-	<5
<1	-	-	-	-	-	-	17
<10	-	-	-	-	-	-	20
110	-	-	-	-	-	-	90
200	-	-	-	-	-	-	200
300	-	-	-	-	-	-	300
<10	-	-	-	-	-	-	10
<10	-	-	-	-	-	-	<10
<4	-	-	-	-	-	-	<4
<1.0	-	-	-	-	-	-	<1.0
<5	-	-	-	-	-	-	<5
<0.2	-	-	-	-	-	-	<0.2
<0.2	-	-	-	-	-	-	1.0
<0.5	-	-	-	-	-	-	<0.5
<2	-	-	-	-	-	-	<2
<0.1	-	-	-	-	-	-	<0.1
<0.5	-	-	-	-	-	-	0.5
<0.5	-	-	-	-	-	-	<0.5
<0.01	-	-	-	-	-	-	<0.01
<1	-	-	-	-	-	-	<1
<1	-	-	-	-	-	-	<1
<2	-	-	-	-	-	-	<2

Note: Treated water was not being discharged at Talbingo or Tantangara 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 August 2025 - Volumes

Date
1/08/2025
2/08/2025
3/08/2025
4/08/2025
5/08/2025
6/08/2025
7/08/2025
8/08/2025
9/08/2025
10/08/2025
11/08/2025
12/08/2025
13/08/2025
14/08/2025
15/08/2025
16/08/2025
17/08/2025
18/08/2025
19/08/2025
20/08/2025
21/08/2025
22/08/2025
23/08/2025
24/08/2025
25/08/2025
26/08/2025
27/08/2025
28/08/2025
29/08/2025
30/08/2025
31/08/2025

EPL 43 *	EPL 50 ^
Discharge volume (Megalitres)	
1.99	0.82
-	0.18
-	0.35
-	0.64
-	0.58
-	-
-	0.84
-	0.48
-	0.44
1.40	1.19
-	0.77
-	0.75
1.18	0.70
-	1.08
-	1.04
-	0.98
-	1.00
-	0.86
1.54	1.10
-	1.11
-	0.81
-	0.18
1.53	-
1.45	0.35
-	0.57
-	-
-	-
-	-
-	-
-	-

EPL 44	EPL 45	EPL 47	EPL 48	EPL 49
Discharge volume (Megalitres)				
0.56	0.08	0.20	0.09	0.058
0.45	0.09	0.16	0.08	0.001
0.31	0.07	0.17	0.09	0.0004
0.37	0.08	0.24	0.08	0.43
0.16	0.04	0.00	0.10	0.61
0.36	0.09	0.11	0.08	0.56
0.38	0.09	0.11	0.09	0.69
0.36	0.07	0.11	0.09	0.43
0.24	0.10	0.09	0.08	0.20
0.38	0.13	0.11	0.09	0.39
0.34	0.09	0.15	0.10	0.46
0.16	0.08	0.15	0.07	0.71
0.43	0.08	0.15	0.08	0.15
0.44	0.09	0.14	0.08	0.17
0.15	0.07	0.12	0.08	0.66
0.56	0.08	0.14	0.09	0.59
0.47	0.07	0.12	0.07	0.46
0.35	0.07	0.10	0.08	0.68
0.34	0.08	0.10	0.09	0.51
0.33	0.08	0.13	0.06	0.23
0.30	0.07	0.16	0.09	0.47
0.45	0.06	0.21	0.09	0.41
0.66	0.06	0.17	0.06	0.39
0.49	0.04	0.14	0.08	0.28
0.47	0.04	0.15	0.19	0.55
0.39	0.04	0.19	0.07	0.39
0.30	0.06	0.19	0.09	0.73
0.32	0.04	0.18	0.10	0.63
0.29	0.05	0.19	0.04	0.28
0.44	0.05	0.23	0.04	0.439
0.33	0.08	0.19	0.03	0.58

- 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 6.48 L/s

^ The maximum flow rate capacity for Tantangara STP/PWTP during the reporting month was 7.87 L/s

-- Water not discharged on this day



Snowy Hydro 2.0 Main Works EPL Sampling: 01 - 30 September 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=PEO%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 23 July 2025, 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.	
Groundwater: Elevated concentrations of nutrients have continued to be observed in groundwater monitoring wells across the Snowy 2.0 sites, most notably downgradient of permanent spoil emplacement areas. As reported previously, bores within the area of influence of GF01 have the greatest concentrations in nutrients (e.g. EPL58 - 42,600 µg/L Total Nitrogen). Exceedances in Total Nitrogen were also observed in the Main Yard area (up to 13,500 µg/L at EPL87), Ravine Bay (up to 700 µg/L at EPL113) and Tantangara (up to 3,500 µg/L at EPL105). Reservoir: Minor exceedances in nutrients were observed in both Talbingo and Tantangara Reservoirs in the month of September, however, concentrations are consistent with previous reports indicating stability in the overall water quality. An exceedance in aluminium at EPL28 (147 µg/L) has been noted will be examined during the next reporting period. Surface Water: Consistent with previous reporting periods, EPL24, EPL55, and EPL122 continue to show the highest surface water concentrations of nutrients in Lobs Hole, aside from leachate storage infrastructure. This is likely attributed to their location downstream of the GF01 leachate area and the ephemeral nature of the waterways. These locations remain under TARP conditions and are monitored weekly. High nutrient concentrations were also observed at EPL36 and EPL37, likely attributed to low flows and agricultural impact. Discharge: Compliance testing at EPL50 on the 17th of September met criteria for discharge however EPL41 on the 7th of the September did not meet criteria for discharge as TN was slightly elevated. Non compliant discharges have been investigated in Incident Report S2-ENV-WA-SFW-INC-FGJV00036. Temperatures for both sampling rounds are not considered reflective of conditions as temperatures were recorded a prior to discharge. Review of Discharge Procedure documentation has commenced as a result of recent non-compliance.	

The publication of this pollution monitoring data is carried out in accordance with section 66 (6) of the Protection of the Environment Operations Act 1997 (NSW).

Snowy Hydro Limited gives no warranty or representation regarding the data suitability for any particular purpose.

Snowy Hydro Limited excludes all liability to any person for loss or damage of any kind (however caused, including but not limited to by negligence) arising whether directly or indirectly from or relating in any way to the use of this data, whether in whole or in part.

[illegible]

* 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 EPA 12166.

[illegible]

- Sample not required at this location.

[illegible]

* 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 90% of aquatic species ANZECC / ARMCANZ (2018); they are not pollutant limits imposed by EPA 21266.

Snowy Hydro 2.0 Main Works

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

Analyte	Unit	Limit of Reporting	Water Quality Objective Value*
Flow Rate			
Inflow [#]	ML/day	-	-
Outflow [#]	ML/day	-	4.32 (EPL 43 / 50)
Field			
pH	pH Unit	-	6.5-8.5
Electrical Conductivity	µS/cm	-	700 (EPL 41) / 200 (EPL 50)
Oxidation Reduction Potential	mV	-	No Water Quality Objective Value
Temperature	°C	-	15
Dissolved Oxygen	% saturation	-	No Water Quality Objective Value
Turbidity	NTU	-	<25
Laboratory analytes			
Total suspended solids	mg/L	5	5/10
Hardness as CaCO ₃	mg/L	1	No Water Quality Objective Value
Nutrients			
Ammonia as N	µg/L	10	200/2000 [^]
Nitrite + Nitrate as N (NO _x)	µg/L	10	No Water Quality Objective Value
Kjeldahl Nitrogen Total	µg/L	100	No Water Quality Objective Value
Nitrogen (Total)	µg/L	100	350/- [^]
Reactive Phosphorus	µg/L	1	No Water Quality Objective Value
Phosphorus (Total)	µg/L	10	100
Inorganics			
Cyanide Total	µg/L	4	No Water Quality Objective Value
Hydrocarbons			
Oil and Grease	mg/L	1	2/5 [^]
Metals			
Aluminium (dissolved)	µg/L	5	55
Arsenic (dissolved)	µg/L	0.2	13
Chromium (III+VI) (dissolved)	µg/L	0.2	1
Copper (dissolved)	µg/L	0.5	14
Iron (dissolved)	µg/L	2	300
Lead (dissolved)	µg/L	0.1	3.4
Manganese (dissolved)	µg/L	0.5	1,900
Nickel (dissolved)	µg/L	0.5	11
Silver (dissolved)	µg/L	0.01	0.05
Zinc (dissolved)	µg/L	1	8
Biological			
Faecal Coliforms	CFU/100mL	1	10/100 [^]
Biological Oxygen Demand	mg/L	2	5

EPL 41	EPL 43	EPL 44	EPL 45	EPL 47	EPL 48	EPL 49	EPL 50
7/09/2025							17/09/2025
-	0.0000	0.4031	0.0471	0.1514	0.0465	0.3649	-
-	-	-	-	-	-	-	-
6.65	-	-	-	-	-	-	6.75
190	-	-	-	-	-	-	109
269	-	-	-	-	-	-	240
14.38	-	-	-	-	-	-	10.35
81.8	-	-	-	-	-	-	86.2
3.69	-	-	-	-	-	-	4.3
<5	-	-	-	-	-	-	<5
<1	-	-	-	-	-	-	<1
<10	-	-	-	-	-	-	<10
50	-	-	-	-	-	-	40
300	-	-	-	-	-	-	<100
400	-	-	-	-	-	-	<100
<10	-	-	-	-	-	-	<10
20	-	-	-	-	-	-	50
<4	-	-	-	-	-	-	<4
<1.0	-	-	-	-	-	-	<1.0
<5	-	-	-	-	-	-	<5
<0.2	-	-	-	-	-	-	<0.2
<0.2	-	-	-	-	-	-	0.5
<0.5	-	-	-	-	-	-	<0.5
<2	-	-	-	-	-	-	<2
<0.1	-	-	-	-	-	-	<0.1
<0.5	-	-	-	-	-	-	<0.1
<0.5	-	-	-	-	-	-	<0.5
<0.01	-	-	-	-	-	-	<0.01
<0.1	-	-	-	-	-	-	<1
<1	-	-	-	-	-	-	<1
<2	-	-	-	-	-	-	<2

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: 01-30 September 2025 - Volumes

Date
1/09/2025
2/09/2025
3/09/2025
4/09/2025
5/09/2025
6/09/2025
7/09/2025
8/09/2025
9/09/2025
10/09/2025
11/09/2025
12/09/2025
13/09/2025
14/09/2025
15/09/2025
16/09/2025
17/09/2025
18/09/2025
19/09/2025
20/09/2025
21/09/2025
22/09/2025
23/09/2025
24/09/2025
25/09/2025
26/09/2025
27/09/2025
28/09/2025
29/09/2025
30/09/2025

EPL 43 *	EPL 50 ^
Discharge volume (Megalitres)	
0.79	-
-	0.16
-	0.06
-	0.59
-	0.42
-	-
-	0.72
-	0.73
-	1.11
0.64	1.12
0.35	-
-	-
-	-
0.65	-
0.85	1.16
0.40	0.28
0.44	0.13
0.57	-
0.38	0.28
-	0.09
-	0.04
0.53	0.04
-	0.04
-	0.19
-	0.67
-	0.18
0.68	0.004
1.17	0.16
-	0.31
-	0.50

EPL 44	EPL 45	EPL 47	EPL 48	EPL 49
Discharge volume (Megalitres)				
0.33	0.09	0.19	0.09	0.58
0.39	0.09	0.27	0.09	0.14
0.43	0.07	0.19	0.08	1.64
0.36	0.05	0.15	0.10	0.52
0.18	0.06	0.13	0.07	0.68
0.41	0.07	0.13	0.08	0.39
0.20	0.07	0.21	0.07	0.62
0.34	0.06	0.18	0.09	0.55
0.47	0.05	0.21	0.09	0.01
0.64	0.08	0.18	0.07	0.53
0.42	0.06	0.19	0.08	0.52
0.38	0.06	0.19	0.10	0.75
0.45	0.05	0.21	0.06	0.54
0.19	0.05	0.16	0.07	0.71
0.26	0.06	0.22	0.08	0.74
0.44	0.06	0.16	0.10	0.72
0.35	0.06	0.19	0.09	0.67
0.30	0.08	0.16	0.00	0.62
0.40	0.06	0.20	0.00	0.00
0.36	0.06	0.20	0.00	0.00
0.19	0.06	0.21	0.00	0.00
0.54	0.07	0.19	0.00	0.00
0.70	0.00	0.18	0.00	0.00
0.54	0.00	0.24	0.00	0.00
0.32	0.00	0.00	0.00	0.00
0.42	0.00	0.00	0.00	0.00
0.41	0.00	0.00	0.00	0.00
0.46	0.00	0.00	0.00	0.00
0.60	0.00	0.00	0.00	0.00
0.66	0.00	0.00	0.00	0.00

- 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 7.63 L/s

^ The maximum flow rate capacity for Tantangara STP/PWTP during the reporting month was 18.68 L/s

-- Water not discharged on this day



Snowy Hydro 2.0 Main Works EPL Sampling: 01 - 31 October 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.	
Groundwater: Concentrations of nutrients in groundwater monitoring wells were observed above the WQO’s across the Snow 2.0 sites, most notably, within the area of influence of permanent spoil emplacement areas. Highest concentrations of nutrients were observed downgradient of GF01 with EPL58 and EPL95 reporting 54,600 µg/L and 46,500 µg/L respectively. Monitoring bores EPL90, EPL96 and EPL97 also continue to report exceedances in total nitrogen (600 – 24,500 µg/L). Exceedances in Total Nitrogen were also observed in the Main Yard area (most notably at EPL87 - 11,500 µg/L), Ravine Bay (up to 300 µg/L at EPL113 and EPL115) and Tantangara (up to 2,500 µg/L at EPL105). A pH gradient has been observed across the Tantangara PSE with pH values of 6.16 – 6.76 in upgradient bores, decreasing to 5.39 - 5.52 in downgradient bores. This will be investigated further in the next reporting period. Concentrations of select metals were observed above the WQO’s in some groundwater monitoring wells. Notably, high concentrations of Dissolved Iron in EPL81 and EPL82 and EPL117 (2000 µg/L, 2210 µg/L and 3180 µg/L respectively). Reservoir: Seasonal warming has resulted in notable increases in reservoir surface water temperatures, with Talbingo Reservoir exhibiting a rise of approximately 7°C and Tantangara Reservoir increasing by around 5°C. An exceedance in aluminium at EPL28 noted in the previous reporting period has decreased to the below the WQO (147 µg/L to 29 µg/L). Minor exceedances of the WQO’s were also observed in nutrient concentrations. Surface Water: Leachate storage infrastructure continues to exhibit the highest nutrient concentrations and electrical conductivity across the monitoring network. Consistent with previous reporting periods, nutrient concentrations at EPL24, and EPL122 exceed the WQO’s, likely due the ephemeral nature of the waterways and proximity to GF01. Elevated nutrient concentrations were also recorded at EPL36 and EPL37, likely influenced by low flows and hooved stock interaction. Discharge: Amendments to Condition L2.4 within EPL21266 were included within the September variation (understood to comprise the latest license). The amendments included increased discharge analytical limits for key contaminants of concern. Noting this, the analytical results for EPL41 and EPL50 were observed to comply with the updated criteria.	

The publication of this pollution monitoring data is carried out in accordance with section 66 (6) of the Protection of the Environment Operations Act 1997 (NSW).

Snowy Hydro Limited gives no warranty or representation regarding the data suitability for any particular purpose.

Snowy Hydro Limited excludes all liability to any person for loss or damage of any kind (however caused, including but not limited to by negligence) arising whether directly or indirectly from or relating in any way to the use of this data, whether in whole or in part.

* 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 EPA 21286.

Snowy Hydro 2.0 Main Works

Monthly EPL Sampling: 01-31 October 2025 - Talbingo and Tantangara

Reservoir

Analyte	Unit	Limit of Reporting	Water Quality Objective Value*
Field			
pH	pH Unit	-	6.5-8
Electrical Conductivity	µS/cm	-	20-30
Oxidation Reduction Potential	mV	-	No Water Quality Objective Value
Temperature	°C	-	No Water Quality Objective Value
Dissolved Oxygen	% saturation	-	90-110
Turbidity	NTU	-	1-20
Laboratory analytes			
Total suspended solids	mg/L	5	No Water Quality Objective Value
Hardness as CaCO ₃	mg/L	1	No Water Quality Objective Value
Nutrients			
Ammonia as N	µg/L	10	10
Nitrite + Nitrate as N (NO _x)	µg/L	10	10
Kjeldahl Nitrogen Total	µg/L	100	No Water Quality Objective Value
Nitrogen (Total)	µg/L	100	350
Reactive Phosphorus	µg/L	1	5
Phosphorus (Total)	µg/L	10	10
Inorganics			
Cyanide Total	µg/L	4	7
Hydrocarbons			
Oil and Grease	mg/L	1	5
Metals			
Aluminium (dissolved)	µg/L	5	55
Arsenic (dissolved)	µg/L	0.2	13
Chromium (III+VI) (dissolved)	µg/L	0.2	1
Copper (dissolved)	µg/L	0.5	14
Iron (dissolved)	µg/L	2	300
Lead (dissolved)	µg/L	0.1	3.4
Manganese (dissolved)	µg/L	0.5	1,900
Nickel (dissolved)	µg/L	0.5	11
Silver (dissolved)	µg/L	0.01	0.05
Zinc (dissolved)	µg/L	1	8
Biological			
Faecal Coliforms	CFU/100mL	1	10/100 [^]
Biochemical Oxygen Demand	mg/L	2	1/5 [^]

EPL10	EPL11	EPL28	EPL29	EPL32	EPL38	EPL39	EPL40	EPL46	EPL51	EPL107	EPL108	EPL109
22/10/2025	22/10/2025	19/10/2025	19/10/2025	19/10/2025	19/10/2025	18/10/2025	31/10/2025	19/10/2025	19/10/2025	22/10/2025	22/10/2025	22/10/2025
7.92	7.99	7.7	7.49	7.49	7.58	7.08	5.17	7.42	7.42	7.91	8.15	8.45
85	67	21	19	17	19	17	92	17	17	52	50	54
167	161	188	243	237	222	240	232	254	250	162	144	122
17.33	17.28	12.85	12.68	12.55	12.63	9.71	14.51	12.7	12.67	16.98	16.85	16.85
71.5	7.61	89.9	77.3	69.6	90.9	67.8	169.1	78.7	76.5	75.5	75.1	85.1
1.3	1.1	18.1	3.2	2.5	2.3	4.4	2.8	3.4	2.5	1.5	0.9	0.95
<5	<5	<5	<5	6	<5	<5	<5	8	<5	<5	<5	<5
230	31	2	2	2	2	<1	<1	2	2	19	17	17
20	<10	30	30	<10	<10	<10	<10	<10	<10	<10	<10	20
10	10	10	<10	<10	<10	10	30	<10	<10	10	10	10
200	200	100	100	200	<100	<100	200	100	100	200	200	200
200	200	100	100	200	<100	<100	200	100	100	200	200	200
<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
60	30	20	30	10	30	<10	90	90	20	30	20	<10
<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
<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
6	6	29	26	27	26	11	15	26	23	5	6	6
0.4	0.3	<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	0.3	0.3	0.3	0.2	<0.2	0.3	0.2	<0.2	<0.2	<0.2
<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
15	14	98	67	68	71	35	44	66	62	10	10	10
<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
1.1	<0.5	22.0	1.8	1.8	3.3	1.6	2.5	1.6	1.6	<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
<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
5	1	<1	-	-	-	-	-	-	<1	-	-	-
<2	<2	<2	-	-	-	-	-	-	<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 Work

Analyte	Unit	Limit of Reporting	Water Quality Objective Value*	EP1	EP6	EP8	EP12	EP14	EP15	EP16	EP18	EP26	EP27	EP30	EP31	EP33	EP34	EP35	EP36	EP37	EP32	EP33	EP34	EP35	EP36	EP37	EP38	EP39	EP40	EP100	EP101	EP106	EP110	EP118	EP119	EP120	EP122
				27/10/2015	27/10/2015	27/10/2015	27/10/2015	27/10/2015	27/10/2015	27/10/2015	27/10/2015	27/10/2015	27/10/2015	27/10/2015	27/10/2015	27/10/2015	27/10/2015	27/10/2015	27/10/2015	27/10/2015	27/10/2015	27/10/2015	27/10/2015	27/10/2015	27/10/2015	27/10/2015	27/10/2015	27/10/2015	27/10/2015	27/10/2015	27/10/2015	27/10/2015	27/10/2015	27/10/2015	27/10/2015	27/10/2015	27/10/2015
pH	-	-	6.5-8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Electrical Conductivity	µS/cm	-	0-300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Oxidation Reduction Potential	mV	-	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Temperature	°C	-	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dissolved Oxygen	% Sat	-	0-100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Turbidity	NTU	-	0-25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Laboratory analyses				mg/L	5	-	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hardness as CaCO3	mg/L	5	-	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nutrients				mg/L	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ammonia as N	mg/L	5	15	-	<10	<10	20	<10	<10	<10	<10	20	10	10	10	40	<10	<10	20	<10	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrite + Nitrate as N (NO3)	mg/L	5	<10	<10	20	<10	<10	<10	<10	<10	<10	20	10	10	10	40	<10	<10	20	<10	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sulphate Nitrogen Total	mg/L	100	-	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrogen Total	mg/L	100	250	-	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Reactive Phosphorus	mg/L	15	<10	<10	<10	<10	<10	<10	<10	<10	<10	20	10	10	10	40	<10	<10	20	<10	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phosphorus (Total)	mg/L	10	50	-	10	40	40	40	30	20	60	10	10	<10	20	<10	20	40	20	<10	10	20	<10	10	20	50	10	-	-	-	-	-	-	-	-	-	
Inorganics				mg/L	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide Total	mg/L	4	4	-	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Hydrocarbons				mg/L	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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				mg/L	5	-	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aluminium (total)	mg/L	5	-	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Aluminium (dissolved)	mg/L	5	27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Arsenic (total)	mg/L	0.1	-	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Arsenic (dissolved)	mg/L	0.1	0.8	-	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	
Chromium (III-VI) (total)	mg/L	0.1	-	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chromium (III-VI) (dissolved)	mg/L	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	<0.1	<0.1	<0.1	
Copper (total)	mg/L	0.1	-	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Copper (dissolved)	mg/L	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	<0.1	<0.1	<0.1	
Iron (total)	mg/L	2	-	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Iron (dissolved)	mg/L	2	300	-	15	8	20	30	13	12	20	30	3	13	12	18	22	52	37	40	318	300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Lead (total)	mg/L	0.1	-	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Lead (dissolved)	mg/L	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	<0.1	<0.1		
Manganese (total)	mg/L	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	<0.1	<0.1		
Manganese (dissolved)	mg/L	0.1	1,200	-	1.1	1.7	1.5	2.3	0.9	1.0	1.3	1.7	105	1.5	1.1	1.7	2.3	1.4	6.7	5.8	25.6	167	0.8	-	-	-	-	-	-	-	-	-	-	-	-	-	
Nickel (total)	mg/L	0.1	-	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Nickel (dissolved)	mg/L	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	<0.1	<0.1		
Silver (total)	mg/L	0.01	-	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Silver (dissolved)	mg/L	0.01	0.02	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<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)	mg/L	1	-	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Zinc (dissolved)	mg/L	1	1.4	-	<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	<1	<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.

Snowy Hydro 2.0 Main Works

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

Analyte	Unit	Limit of Reporting	Discharge Criteria
Field			
pH	pH Unit	-	6.5-8.5
Electrical Conductivity	µS/cm	-	700 (EPL 41) / 200 (EPL 50)
Oxidation Reduction Potential	mV	-	No Water Quality Objective Value
Temperature	°C	-	15
Dissolved Oxygen	% saturation	-	No Water Quality Objective Value
Turbidity	NTU	-	<25
Laboratory analytes			
Total suspended solids	mg/L	5	5/10
Hardness as CaCO ₃	mg/L	1	No Water Quality Objective Value
Nutrients			
Ammonia as N	µg/L	10	1000/2000 [^]
Nitrite + Nitrate as N (NO _x)	µg/L	10	No Water Quality Objective Value
Kjeldahl Nitrogen Total	µg/L	100	No Water Quality Objective Value
Nitrogen (Total)	µg/L	100	1500/3000 [^]
Reactive Phosphorus	µg/L	1	No Water Quality Objective Value
Phosphorus (Total)	µg/L	10	300/500 [^]
Inorganics			
Cyanide Total	µg/L	4	No Water Quality Objective Value
Hydrocarbons			
Oil and Grease	mg/L	1	2/5 [^]
Metals			
Aluminium (dissolved)	µg/L	5	55
Arsenic (dissolved)	µg/L	0.2	13
Chromium (III+VI) (dissolved)	µg/L	0.2	1
Copper (dissolved)	µg/L	0.5	14
Iron (dissolved)	µg/L	2	300
Lead (dissolved)	µg/L	0.1	3.4
Manganese (dissolved)	µg/L	0.5	1,900
Nickel (dissolved)	µg/L	0.5	11
Silver (dissolved)	µg/L	0.01	0.05
Zinc (dissolved)	µg/L	1	8
Biological			
Faecal Coliforms	CFU/100mL	1	10/100 [^]
Biological Oxygen Demand	mg/L	2	3.5/5 [^]

EPL 41	EPL 50
6/10/2025	6/10/2025
7.81	6.86
34	90
132	67.5
17.02	14.9
66.5	85.8
0	4.09
<5	<5
<1	<1
<10	<10
160	120
300	200
500	300
<10	<10
20	<10
<4	<4
<1.0	<1.0
<5	<5
<0.2	<0.2
<0.2	0.7
<0.5	<0.5
<2	<2
<0.1	<0.1
<0.5	<0.5
<0.5	<0.5
<0.01	<0.01
<1	<1
<1	<1
<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

- 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 October 2025 - Volumes

Date
1/10/2025
2/10/2025
3/10/2025
4/10/2025
5/10/2025
6/10/2025
7/10/2025
8/10/2025
9/10/2025
10/10/2025
11/10/2025
12/10/2025
13/10/2025
14/10/2025
15/10/2025
16/10/2025
17/10/2025
18/10/2025
19/10/2025
20/10/2025
21/10/2025
22/10/2025
23/10/2025
24/10/2025
25/10/2025
26/10/2025
27/10/2025
28/10/2025
29/10/2025
30/10/2025
31/10/2025

EPL 43 *	EPL 50 ^
Discharge volume (Megalitres)	
0.19	0.15
0.55	0.61
0.50	0.25
-	0.02
0.44	0.33
0.82	0.34
-	0.21
0.29	0.24
-	0.26
0.66	0.31
-	0.01
0.75	0.33
1.08	0.17
0.64	0.34
-	0.06
1.04	0.29
0.86	-
1.06	0.26
-	0.26
1.01	-
1.03	0.84
0.95	0.45
-	0.40
1.06	0.18
-	-
-	0.48
-	0.436
-	0.29
1.10	-
0.50	0.37
1.23	-

- 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 7.63 L/s

^ The maximum flow rate capacity for Tantangara STP/PWTP during the reporting month was 18.68 L/s

-- Water not discharged on this day

Snowy Hydro 2.0 Main Works EPL Sampling: 01 - 31 November 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=PEO%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 26 September 2025.	
A map showing the location of each of the EPL named sampling points is provided after the results tables.	
Groundwater Groundwater bores at EPL2, EPL4, and EPL25 remain submerged under sediment or water due to location within a drain or spillway, making them unrepresentative. Nutrient concentrations continue to exceed in bores within GF01 and Mainyard areas. Exceedances of heavy metals including arsenic, chromium, copper, iron, nickel, and zinc have been recorded at GF01, Mainyard, and Ravine Bay. Iron exceedances are limited to EPL81, EPL82, and EPL117. Groundwater at Tantangara continues exceedances in nutrients and metals such as copper and zinc. Reservoir An increase in faecal coliforms has been observed at EPL10 and EPL11 during this reporting period, likely due to the increasing temperature and notable green colour within the shallower waterbody and the calm nature of the waterbody during sampling. Resampling will occur in early December. Surface Water Seasonal changes, including reduced rainfall and warmer temperatures, resulted in several sites, EPL53, EPL54, EPL55, EPL67, EEPL71, EPL98, EPL120 and EPL122, being dry and unable to be sampled. Nutrient exceedances were recorded at EPL24 likely due to the ephemeral nature of the waterways and proximity to GF01. Minor elevations in nutrient concentrations were also observed at EPL36 and EPL37, likely influenced by low flows and interaction with hooved stock. Other locations which have exceedances in nutrients include EPL14, EPL16, EPL8, EPL30 and EPL33, however these locations differ from the extreme exceedances of EPL24 and EPL52 which could be attributed with the environmental contributors such as seasonal changes as these are natural streams. It has been identified that there were multiple heavy metals that have returned exceedances in different locations across FGJV sites (Lobs Hole, Tantangara, , Marica and Rockforest), these heavy metals being aluminium (filtered), arsenic (filtered), chromium (III + IV), copper (filtered), iron (filtered) and zinc (filtered). These analytes were seen in locations of natural streams such as EPL6, EPL15, EPL16, EPL24, EPL33, EPL36 and EPL37. Leachate storage infrastructure which continues to exhibit the highest nutrient concentrations and electrical conductivity across the monitoring network. Discharge Analytical results for EPL41 and EPL50 complied with discharge criteria during the month of November. Volumes discharged between 24/11/2025 and 30/11/2025 are pending due to a reporting systems upgrade in progress.	

Monthly EPL Sampling: 01-30 November 2025 - Groundwater

Analysis			New Quality Objectives v2			Financial Performance																															
Period	Unit	Level of Reporting	Q1/2023	Q2/2023	Q3/2023	Q4/2023	Q1/2024	Q2/2024	Q3/2024	Q4/2024	Q1/2025	Q2/2025	Q3/2025	Q4/2025	Q1/2026	Q2/2026	Q3/2026	Q4/2026	Q1/2027	Q2/2027	Q3/2027	Q4/2027	Q1/2028	Q2/2028	Q3/2028	Q4/2028	Q1/2029	Q2/2029	Q3/2029	Q4/2029	Q1/2030	Q2/2030	Q3/2030	Q4/2030			
Revenue	USD	Global	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100		
Profit	USD	Global	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20		
Operating Expenses	USD	Global	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80		
Capital Expenditure	USD	Global	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10		
Research & Development	USD	Global	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	5	5	5	5	5	5	5	5		
Selling, General & Administrative	USD	Global	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	5	5	5	5	5	5	5	5		
Financial Expenses	USD	Global	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Financial Income	USD	Global	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Other Income	USD	Global	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Other Expenses	USD	Global	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Net Income	USD	Global	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20		
Operating Profit	USD	Global	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20		
Operating Loss	USD	Global	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Pre-tax Income	USD	Global																																			
Income Tax Expense	USD	Global																																			
Net Income	USD	Global																																			
Operating Profit	USD	Global																																			
Operating Loss	USD	Global																																			
Pre-tax Income	USD	Global																																			
Income Tax Expense	USD	Global																																			
Net Income	USD	Global																																			
Operating Profit	USD	Global																																			
Operating Loss	USD	Global																																			
Pre-tax Income	USD	Global																																			
Income Tax Expense	USD	Global																																			
Net Income	USD	Global																																			
Operating Profit	USD	Global																																			
Operating Loss	USD	Global																																			
Pre-tax Income	USD	Global																																			
Income Tax Expense	USD	Global																																			
Net Income	USD	Global																																			
Operating Profit	USD	Global																																			
Operating Loss	USD	Global																																			
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Operating Loss	USD	Global																																			
Pre-tax Income	USD	Global																																			
Income Tax Expense	USD	Global												</																							

Snowy Hydro 2.0 Main Works
Monthly EPL Sampling: 01-30 November 2025 - Talbingo and Tantangara Reservoir

Analyte	Unit	Limit of Reporting	Water Quality Objective Value*
Field			
pH	pH Unit	-	6.5-8
Electrical Conductivity	µS/cm	-	20-30
Oxidation Reduction Potential	mV	-	No Water Quality Objective Value
Temperature	°C	-	No Water Quality Objective Value
Dissolved Oxygen	% saturation	-	90-110
Turbidity	NTU	-	1-20
Laboratory analyses			
Total suspended solids	mg/L	5	No Water Quality Objective Value
Hardness as CaCO ₃	mg/L	1	No Water Quality Objective Value
Nutrients			
Ammonia as N	µg/L	10	10
Nitrite + Nitrate as N (NO _x)	µg/L	10	10
Kjeldahl Nitrogen Total	µg/L	100	No Water Quality Objective Value
Nitrogen (Total)	µg/L	100	350
Reactive Phosphorus	µg/L	1	5
Phosphorus (Total)	µg/L	10	10
Inorganics			
Cyanide Total	µg/L	4	7
Hydrocarbons			
Oil and Grease	mg/L	1	5
Metals			
Aluminium (dissolved)	µg/L	5	55
Arsenic (dissolved)	µg/L	0.2	13
Chromium (III+VI) (dissolved)	µg/L	0.2	1
Copper (dissolved)	µg/L	0.5	14
Iron (dissolved)	µg/L	2	300
Lead (dissolved)	µg/L	0.1	3.4
Manganese (dissolved)	µg/L	0.5	1,900
Nickel (dissolved)	µg/L	0.5	11
Silver (dissolved)	µg/L	0.01	0.05
Zinc (dissolved)	µg/L	1	8
Biological			
Faecal Coliforms	CFU/100mL	1	10/100*
Biochemical Oxygen Demand	mg/L	2	1/5^

^ 90th percentile concentration limits / 100 percentile concentration limits
- Sample not required at this location.

EPL10	EPL11	EPL28	EPL29	EPL32	EPL38	EPL39	EPL40	EPL46	EPL51	EPL107	EPL108	EPL109
19/11/2025	19/11/2025	23/11/2025	23/11/2025	23/11/2025	23/11/2025	8/11/2025	23/11/2025	23/11/2025	23/11/2025	19/11/2025	19/11/2025	19/11/2025
7.96	7.89	7.71	7.43	7.48	7.5	6.66	7.86	7.36	7.4	7.83	7.81	7.79
50	45	14	11	11	11	18	13	12	11	31	31	31
167	167	196	217	216	211	193	189	221	219	164	160	150
19.54	19.64	14.2	14.5	14.01	13.95	15.03	14.26	14.34	14.21	18.23	18.27	17.95
64.5	96.9	91.7	77.8	78.8	81.7	107.1	78.2	76.2	77.4	99.5	107.2	94.9
1.24	1.24	5.6	5	5.9	14.0	9.1	3.7	7.3	6.5	1.35	1.17	1.25
<5	<5	<5	<5	<5	<5	<5	<5	<5	2	<5	<5	<5
22	19	5	2	2	2	<1	<1	5	<5	10	10	7
<10	10	<10	60	<10	40	<10	<10	40	40	<10	<10	<10
<10	<10	<10	<10	<10	<10	10	<10	<10	<10	<10	<10	<10
100	200	300	300	300	200	<100	200	200	300	100	<100	<100
100	200	300	300	300	200	<100	200	200	300	100	<100	<100
<10	<10	<10	<10	<10	<10	30	<10	<10	<10	<10	<10	<10
50	50	20	20	10	10	10	20	<10	30	50	40	30
<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
<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	<5	24	32	31	34	17	31	39	31	<5	<5	<5
0.3	0.3	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	<0.2	0.3	0.2	<0.2
0.2	<0.2	<0.2	<0.2	<0.2	0.2	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
<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
15	14	101	131	132	127	53	116	142	131	10	8	8
<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	0.6	1.4	1.8	1.8	1.7	2.5	1.8	2.0	1.8	0.6	<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
<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
<1	<1	<1	<1	<1	7	<1	<1	<1	<1	<1	<1	<1
120	29	1	-	-	-	-	-	-	1	-	-	-
<2	<2	<2	-	-	-	-	-	-	<2	-	-	-

Monthly EPL Sampling: 01-30 November 2025 - Surface Water

[illegible]

- Samples not required

Snowy Hydro 2.0 Main Works

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

Analyte	Unit	Limit of Reporting	Discharge Criteria
Field			
pH	pH Unit	-	6.5-8.5
Electrical Conductivity	µS/cm	-	700 (EPL 41) / 200 (EPL 50)
Oxidation Reduction Potential	mV	-	No Water Quality Objective Value
Temperature	°C	-	15
Dissolved Oxygen	% saturation	-	No Water Quality Objective Value
Turbidity	NTU	-	<25
Laboratory analytes			
Total suspended solids	mg/L	5	5/10^
Hardness as CaCO ₃	mg/L	1	No Water Quality Objective Value
Nutrients			
Ammonia as N	µg/L	10	1000/2000^
Nitrite + Nitrate as N (NO _x)	µg/L	10	No Water Quality Objective Value
Kjeldahl Nitrogen Total	µg/L	100	No Water Quality Objective Value
Nitrogen (Total)	µg/L	100	1500/3000^
Reactive Phosphorus	µg/L	1	No Water Quality Objective Value
Phosphorus (Total)	µg/L	10	300/500^
Inorganics			
Cyanide Total	µg/L	4	No Water Quality Objective Value
Hydrocarbons			
Oil and Grease	mg/L	1	2/5^
Metals			
Aluminium (dissolved)	µg/L	5	55
Arsenic (dissolved)	µg/L	0.2	13
Chromium (III+VI) (dissolved)	µg/L	0.2	1
Copper (dissolved)	µg/L	0.5	14
Iron (dissolved)	µg/L	2	300
Lead (dissolved)	µg/L	0.1	3.4
Manganese (dissolved)	µg/L	0.5	1,900
Nickel (dissolved)	µg/L	0.5	11
Silver (dissolved)	µg/L	0.01	0.05
Zinc (dissolved)	µg/L	1	8
Biological			
Faecal Coliforms	CFU/100mL	1	10/100^
Biological Oxygen Demand	mg/L	2	3.5/5^

EPL 41	EPL 50
09 Nov 2025	09 Nov 2025
7.47	7.95
47	80
210	256
18.5	16.2
86.6	109.9
0.95	0.17
<5	<5
<1	<1
<10	30
150	60
<100	200
200	300
<10	<10
30	40
<4	<4
<1.0	<1.0
<5	<5
<0.2	<0.2
<0.2	<0.2
<0.5	<0.5
<2	<2
<0.1	<0.1
<0.5	<0.5
<0.5	<0.5
<0.01	<0.01
<1	<1
<1	<1
<2	<2

Note: Treated water was not being discharged at Tantangara Reservoir at the time of EPL sampling.

^ 90 Percentile concentration limit/100 Percentile limit

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

Date
1/11/2025
2/11/2025
3/11/2025
4/11/2025
5/11/2025
6/11/2025
7/11/2025
8/11/2025
9/11/2025
10/11/2025
11/11/2025
12/11/2025
13/11/2025
14/11/2025
15/11/2025
16/11/2025
17/11/2025
18/11/2025
19/11/2025
20/11/2025
21/11/2025
22/11/2025
23/11/2025
24/11/2025
25/11/2025
26/11/2025
27/11/2025
28/11/2025
29/11/2025
30/11/2025

EPL 43 *	EPL 50 ^
Discharge volume (Megalitres)	
1.02	0.52
0.76	-
-	0.25
1.20	0.19
0.81	0.27
1.02	-
1.00	0.57
0.98	0.24
0.19	-
0.91	0.46
-	0.14
0.77	-
0.70	0.14
0.56	0.35
0.94	0.18
-	0.22
0.43	0.32
0.88	-
0.66	-
0.72	0.48
0.65	-
0.54	-
0.70	0.27
*	*
*	*
*	*
*	*
*	*
*	*
*	*

- 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.
- * Volumes discharged between 24/11/2025 and 30/11/2025 are pending due to a reporting systems upgrade in progress.

Snowy Hydro 2.0 Main Works EPL Sampling: 01 - 31 December 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 Environmental Protection Licence No 21266 - Variation 26 September 2025.	
A map showing the location of each of the EPL named sampling points is provided after the results tables.	
Groundwater Groundwater bores EPL2, EPL4, and EPL25 remain submerged under sediment or water due to location within a drain or spillway, making them a risk to sample. Nutrient concentrations in addition to expected heavy metals were observed to remain outside the WQO's in both above and below gradient locations within Mainyard and GF01. Ravine Bay locations reported consistent nutrient results across the majority of the emplacement area (upgradient and downgradient locations) with the exception of EPL117 whereby Phosphorous concentrations were reported as 410 mg/L which is considered above the WQO's. Groundwater quality within the Tantangara PSE remained outside WQO's for nutrients and select heavy metals such as copper and zinc. Reservoirs Increased faecal coliforms presence was observed at EPL10 and EPL11 during this reporting period (120 cfu / 100 ml - 1900 cfu / 100 ml and 37 cfu / 100 ml - 5900 cfu /100 ml respectively), this is a trend observed over previous seasons likely due to the increasing temperature, notable green colour within the shallower water and the calm nature of the waterbody during sampling retesting is underway. Reservoir levels have fluctuated during the month. Tantangara reservoir reported a considerable temperature difference when compared to Talbingo, possibly reflecting the different climatic conditions influencing this water body. Surface Water Seasonal changes, including reduced rainfall and warmer temperatures, resulted in a number of sites being dry and unable to be sampled, EPL52, EPL53, EPL54, EPL55, EPL67, EPL71, EPL98, EPL110, EPL120 and EPL122. Minor elevations in nutrient concentrations were also observed at EPL36, likely influenced by low flows and interaction with hooved stock. Leachate storage infrastructure continues to exhibit the highest nutrient concentrations and electrical conductivity across the monitoring network. Discharge Analytical results at EPL50 complied with discharge criteria during the month of December. EPL41 results indicate a turbidity reading of 26.4 NTU which is marginally outside of the discharge criteria being <25 NTU. All other results are within WQO criteria. It is noted the discharge ITP reported NTU within criteria for discharge.	

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

[illegible]

- Sample not required at this location.

Snowy Hydro 2.0 Main Works
Monthly EPL Sampling: 01-31 December 2025 - Talbingo and Tantangara Reservoir

Analyte	Unit	Limit of Reporting	Water Quality Objective Value*
Field			
pH	pH Unit	-	6.5-8
Electrical Conductivity	µS/cm	-	20-30
Oxidation Reduction Potential	mV	-	No Water Quality Objective Value
Temperature	°C	-	No Water Quality Objective Value
Dissolved Oxygen	% saturation	-	90-110
Turbidity	NTU	-	1-20
Laboratory analyses			
Total suspended solids	mg/L	5	No Water Quality Objective Value
Hardness as CaCO ₃	mg/L	1	No Water Quality Objective Value
Nutrients			
Ammonia as N	µg/L	10	10
Nitrite + Nitrate as N (NO _x)	µg/L	10	10
Kjeldahl Nitrogen Total	µg/L	100	No Water Quality Objective Value
Nitrogen (Total)	µg/L	100	350
Reactive Phosphorus	µg/L	1	5
Phosphorus (Total)	µg/L	10	10
Inorganics			
Cyanide Total	µg/L	4	7
Hydrocarbons			
Oil and Grease	mg/L	1	5
Metals			
Aluminium (dissolved)	µg/L	5	55
Arsenic (dissolved)	µg/L	0.2	13
Chromium (III+VI) (dissolved)	µg/L	0.2	1
Copper (dissolved)	µg/L	0.5	1.4
Iron (dissolved)	µg/L	2	300
Lead (dissolved)	µg/L	0.1	3.4
Manganese (dissolved)	µg/L	0.5	1,900
Nickel (dissolved)	µg/L	0.5	11
Silver (dissolved)	µg/L	0.01	0.05
Zinc (dissolved)	µg/L	1	8
Biological			
Faecal Coliforms	CFU/100mL	1	10/100 ^A
Biochemical Oxygen Demand	mg/L	2	1/5 ^A

EPL10	EPL11	EPL28	EPL29	EPL32	EPL38	EPL39	EPL40	EPL46	EPL51	EPL107	EPL108	EPL109
10-Dec-25	10-Dec-25	3-Dec-25	3-Dec-25	3-Dec-25	3-Dec-25	14-Dec-25	3-Dec-25	3-Dec-25	3-Dec-25	10-Dec-25	10-Dec-25	10-Dec-25
8.66	8.62	7.28	7.22	7.24	7.22	8.11	7.35	7.14	7.23	8.77	8.73	8.71
69	56	21	19.9	19.8	19.8	19	22	20.2	20	40	32	25
217	217	127.8	139.1	129.9	140.5	176	119.7	150	144	236	229	227
22.46	21.9	13.5	15	15	14.9	14.73	13.6	14.9	14.9	21	20.69	20.03
98.4	63.7	91.4	89.1	88.5	90.3	86.3	91.7	89.1	88.2	70	77.1	85.5
1.21	1.1	53.9	52.5	52.8	52.4	7.6	54.5	52.4	52.7	0.91	0.96	1.9
<5	<5	6	7	<5	<5	40	5	<5	<5	<5	<5	<5
36	24	7	2	2	7	4	9	2	2	17	14	12
190	<10	120	<10	<10	<10	70	50	<10	<10	<10	20	70
<10	<10	10	<10	<10	<10	30	<10	<10	<10	<10	<10	<10
200	200	300	200	200	300	200	300	300	200	200	<100	<100
200	200	300	200	200	300	200	300	300	200	200	<100	<100
<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
60	<10	40	50	<10	40	40	80	40	30	<10	<10	<10
<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
<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	<5	37	38	40	38	17	35	38	38	<5	<5	<5
0.4	0.3	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	<0.2	<0.2	<0.2	<0.2
<0.5	<0.5	<0.5	2.4	<0.5	2.2	3.6	1.6	2.2	<0.5	<0.5	<0.5	<0.5
21	13	138	122	128	134	75	146	124	121	6	6	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
<0.5	<0.5	3.1	1.4	2.1	1.8	2.8	6.3	1.5	1.5	<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	<0.5	<0.5	<0.5
<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	0.03
<1	<1	<1	<1	<1	<1	<1	4	2	<1	<1	<1	<1
1,900	5,900	3	-	-	-	-	-	-	<2	-	-	-
2	2	<2	-	-	-	-	-	-	8	-	-	-

^A 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 December 2025 - Surface Water

Analyte	Unit	Limit of Reporting	Water Quality Objective Value*
pH	-	-	-
pH	-	-	6.5-8
Electrical Conductivity	µS/cm	-	90-300
Oxidation Reduction Potential	mV	-	No Water Quality Objective Value
Temperature	°C	-	No Water Quality Objective Value
Dissolved Oxygen	% saturation	-	90-110
Turbidity	NTU	-	2-25
Hydrocarbons and PCBs			
TBS	mg/L	5	No Water Quality Objective Value
Hexachloro-Cyclohexane	mg/L	5	No Water Quality Objective Value
Metals			
Ammonia as N	mg/L	10	15
Nitrate + Nitrite as N (NO3+NO2)	mg/L	10	15
Nitrate Nitrogen Total	mg/L	200	No Water Quality Objective Value
Nitrogen (Total)	mg/L	200	200
Reactive Phosphorus	mg/L	1	15
Phosphorus (Total)	mg/L	10	30
Organics			
Casimir Total	mg/L	4	4
Hydrocarbons			
Oil and Grease	mg/L	1	5
Metals			
Aluminium (Total)	mg/L	5	No Water Quality Objective Value
Aluminium (Dissolved)	mg/L	5	27
Arsenic (Total)	mg/L	0.2	No Water Quality Objective Value
Arsenic (Dissolved)	mg/L	0.2	0.8
Chromium (Total)	mg/L	0.2	No Water Quality Objective Value
Chromium (Hexavalent) (Dissolved)	mg/L	0.2	0.01
Copper (Total)	mg/L	0.5	No Water Quality Objective Value
Copper (Dissolved)	mg/L	0.5	1
Iron (Total)	mg/L	3	No Water Quality Objective Value
Iron (Dissolved)	mg/L	2	300
Lead (Total)	mg/L	0.1	No Water Quality Objective Value
Lead (Dissolved)	mg/L	0.1	0.1
Manganese (Total)	mg/L	0.5	No Water Quality Objective Value
Manganese (Dissolved)	mg/L	0.5	1,200
Nickel (Total)	mg/L	0.5	No Water Quality Objective Value
Nickel (Dissolved)	mg/L	0.5	8
Silver (Total)	mg/L	0.01	No Water Quality Objective Value
Silver (Dissolved)	mg/L	0.01	0.01
Zinc (Total)	mg/L	1	No Water Quality Objective Value
Zinc (Dissolved)	mg/L	1	2.4

- Samples not required

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	EPL119	EPL120	EPL122	
1-Dec-25	1-Dec-25	1-Dec-25	1-Dec-25	1-Dec-25	1-Dec-25	1-Dec-25	1-Dec-25	15-Dec-25	5-Dec-25	5-Dec-25	7-Dec-25	7-Dec-25	7-Dec-25	7-Dec-25	7-Dec-25	6-Dec-25	6-Dec-25	DRY	Dry	Dry	Dry	Dry	Dry	2-Dec-25	1-Dec-25	1-Dec-25	Dry	5-Dec-25	5-Dec-25	5-Dec-25	1-Dec-25	DRY	18-Dec-25	1-Dec-25	Dry	Dry	
8.44	8.14	8.16	8.17	8.29	8.23	8.19	8.26	-	8.84	8.44	7.88	7.9	7.72	8.05	7.95	6.97	7.97	-	-	-	-	-	-	-	9.1	8.72	8.26	-	11.5	9.44	9.69	8.86	-	9.08	8.6	-	-
71	67	76	75	71	72	74	75	-	24	23	18	14	13	15	10.0	19	39	-	-	-	-	-	-	-	711.00	1.01	887.00	-	386	619	658	1,940.00	-	2810	1170	75	-
158	177	180	178	167	177	178	175	-	165	191	239	238	253	252	256	232	219	-	-	-	-	-	-	-	158	53	43	-	40	130	115	213	-	165	202	-	-
14.63	12.62	13.13	13.37	13.57	13.2	13.22	13.54	-	15.77	13.88	13.19	11.48	15.31	10.67	10.34	17.62	23.68	-	-	-	-	-	-	-	20.52	16.1	16.19	-	18.83	19.54	19.18	17.02	-	26.52	15.78	-	-
70.7	66.4	65.8	62.1	70.6	70.4	63.7	60.2	-	65.1	60.9	83.5	85.6	73.8	65.2	67.9	58	62	-	-	-	-	-	-	-	80.5	97.3	84.5	-	59.7	65.8	100	75.4	-	95.9	70.8	-	-
0.4	0.03	1.1	0.9	0.6	0.8	1.3	0.8	-	0.4	0.4	9.9	2.8	3.78	6.1	4.4	21.8	8.9	-	-	-	-	-	-	-	1000	75.00	83.4	-	39.4	20.4	12.9	32.2	-	12.5	40.2	-	-
<5	<5	<5	<5	<5	<5	<5	<5	-	<5	<5	8	<5	<5	<5	<5	<5	<5	-	-	-	-	-	-	-	1,330	27	21	-	<5	6	18	<5	-	12	15	-	-
45	36	45	41	32	36	37	30	-	13	12	7	2	2	<4	<1	15	13	-	-	-	-	-	-	-	45	208	210	-	65	204	164	465	-	305	438	-	-
10	20	10	10	<10	30	10	40	-	20	<10	10	<10	<10	20	<10	40	<10	-	-	-	-	-	-	-	30	20	20	-	4,480	30	30	90	-	<10	10	-	-
<10	<10	<10	<10	<10	<10	<10	<10	-	20	<10	<10	<10	<10	<10	<10	70	<10	-	-	-	-	-	-	-	6,770	5,400	7,410	-	8,520	20,900	20,400	61,500	-	2,230	<10	-	-
200	200	200	200	200	200	200	200	-	200	100	400	300	300	200	200	300	400	-	-	-	-	-	-	-	2,600	1,100	1,500	-	6,200	3,600	2,000	10,600	-	700	200	-	-
200	200	200	200	200	200	200	200	-	200	100	400	300	300	200	200	400	400	-	-	-	-	-	-	-	8,900	6,500	8,900	-	14,200	24,500	22,400	72,100	-	2,900	200	-	-
<10	<10	<10	<10	<10	<10	<10	<10	-	<10	50	<10	<10	<10	<10	<10	<10	<10	-	-	-	-	-	-	-	30	<10	<10	-	<10	<10	20	<10	-	<10	<10	-	-
<10	<10	<10	<10	<10	<10	<10	<10	-	20	40	40	40	60	<10	20	30	<10	-	-	-	-	-	-	-	1,450	40	110	-	30	30	40	30	-	40	20	-	-
<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	-	-
<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	-	-
6	<5	6	5	6	9	6	6	-	<5	<5	14	14	42	14	13	11	30	-	-	-	-	-	-	-	6	8	25	-	<5	8	7	<5	-	<5	<5	-	-
0.5	0.2	0.5	0.5	0.5	6.1	0.5	0.4	-	<0.2	<0.2	<0.2	<0.2	0.2	0.2	0.2	0.3	0.6	-	-	-	-	-	-	-	0.5	3.5	1.2	-	0.7	3.2	2.6	3.5	-	1.3	2.1	-	-
<0.2	<0.2	<0.2	<0.2	<0.2	2.3	<0.2	<0.2	-	0.3	0.3	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.3	-	-	-	-	-	-	2.1	4.4	0.8	-	28.0	9.0	17	1.6	-	1.9	1.1	-	-
<0.5	<0.5	<0.5	<0.5	<0.5	2.1	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	<0.5	1	1.1	-	<0.5	0.6	0.8	0.7	-	<0.5	<0.5	-	-
16	9	16	15	15	2	15	15	-	17	14	37	26	128	75	77	129	272	-	-	-	-	-	-	-	16	<2	7	-	<2	<2	<2	<2	-	<2	<2	-	-
<0.1	<0.1	<0.7	<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	-	-
0.8	1.8	1.0	1.5	0.7	<0.5	0.9	1.2	-	1.8	0.8	1.9	1.6	1.8	2.6	3.3	67.4	3.9	-	-	-	-	-	-	-	0.8	62.8	12.7	-	<0.5	<0.5	<0.5	1.2	-	<0.5	59,000	-	-
<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.7	-	-	-	-	-	-	<0.5	2.0	1.5	-	<0.5	0.8	1.5	2.3	-	7.7	2.7	-	-
<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	-	-
<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	-	-



Snowy Hydro 2.0 Main Works
Monthly EPL Sampling: 01-31 December 2025 - Discharge Water

Analyte	Unit	Limit of Reporting	Discharge Criteria
Field			
pH	pH Unit	-	6.5-8.5
Electrical Conductivity	µS/cm	-	700 (EPL 41) / 200 (EPL 50)
Oxidation Reduction Potential	mV	-	No Water Quality Objective Value
Temperature	°C	-	15
Dissolved Oxygen	% saturation	-	No Water Quality Objective Value
Turbidity	NTU	-	<25
Laboratory analytes			
Total suspended solids	mg/L	5	5/10^
Hardness as CaCO ₃	mg/L	1	No Water Quality Objective Value
Nutrients			
Ammonia as N	µg/L	10	1000/2000^
Nitrite + Nitrate as N (NO _x)	µg/L	10	No Water Quality Objective Value
Kjeldahl Nitrogen Total	µg/L	100	No Water Quality Objective Value
Nitrogen (Total)	µg/L	100	1500/3000^
Reactive Phosphorus	µg/L	1	No Water Quality Objective Value
Phosphorus (Total)	µg/L	10	300/500^
Inorganics			
Cyanide Total	µg/L	4	No Water Quality Objective Value
Hydrocarbons			
Oil and Grease	mg/L	1	2/5^
Metals			
Aluminium (dissolved)	µg/L	5	55
Arsenic (dissolved)	µg/L	0.2	13
Chromium (III+VI) (dissolved)	µg/L	0.2	1
Copper (dissolved)	µg/L	0.5	14
Iron (dissolved)	µg/L	2	300
Lead (dissolved)	µg/L	0.1	3.4
Manganese (dissolved)	µg/L	0.5	1,900
Nickel (dissolved)	µg/L	0.5	11
Silver (dissolved)	µg/L	0.01	0.05
Zinc (dissolved)	µg/L	1	8
Biological			
Faecal Coliforms	CFU/100mL	1	10/100^
Biological Oxygen Demand	mg/L	2	3.5/5^

EPL 41	EPL 50
07 Dec 2025	07 Dec 2025
8.01	7.53
114	43
130	273
20.76	16.1
86	61.6
26.4	0.22
<5	<5
<1	<1
10	40
490	260
200	200
700	500
<10	<10
<10	40
<4	<4
<1.0	<1.0
<5	<5
<0.2	0.2
<0.2	0.5
<0.5	1.3
<2	<2
<0.1	0.1
<0.5	<0.5
<0.5	<0.5
<0.01	<0.01
<1	4
<1	<1
<1	<1

^ 90 Percentile concentration limit/100 Percentile limit

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

Date
1/12/2025
2/12/2025
3/12/2025
4/12/2025
5/12/2025
6/12/2025
7/12/2025
8/12/2025
9/12/2025
10/12/2025
11/12/2025
12/12/2025
13/12/2025
14/12/2025
15/12/2025
16/12/2025
17/12/2025
18/12/2025
19/12/2025
20/12/2025
21/12/2025
22/12/2025
23/12/2025
24/12/2025
25/12/2025
26/12/2025
27/12/2025
28/12/2025
29/12/2025
30/12/2025
31/12/2025

EPL 43 *	EPL 50 ^
Discharge volume (Megalitres)	
-	3.24
-	-
-	3.34
1.20	-
-	-
1.25	-
0.49	-
-	-
-	-
-	0.31
0.27	0.80
-	-
0.22	1.02
-	-
-	-
-	1.24
-	-
-	1.59
-	1.73
-	1.96
0.67	-
0.81	2.37
-	2.88
-	-
-	-
-	3.44
-	3.71
-	-
-	3.88
-	4.24
-	-
4.91	32.41

Totals

- 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.