future generation

webuild | clough | lane

REPORT

QUARTERLY ENVIRONMENTAL WATER REPORT
DECEMBER 2025 – FEBRUARY 2026

S2-ENV-WA-GEN-REP-FGJV0149

REV B

MAY 2026

This Report has been prepared to satisfy the reporting requirements in the Main Works – Water Management Plan (WMP) and to meet Condition of Approval (CoA) 31(c)(d) of the Infrastructure Approval Schedule which requires publicly available reporting of the outcomes of the WMP. The Report provides commentary on the performance of the monitoring programs as part of the WMP.

Revision Record

Rev.	Date	Reason for Issue	Responsible	Accountable	Endorsed
B	22.05.2026	Issued for information	D. Camacho	E. Porter	D. Drummond

Document Verification

RACIE Record

R responsible:	Name: Daniela Camacho Job Title: Environmental Water Officer Signed: Daniela Camacho Date: 22/05/2026
A ccountable:	Name: Ellen Porter Job Title: Environment Manager Signed: Signed by: E Porter 4EDE3A8C971F416... Date: 25 May 2026
C onsulted:	See distribution list on Page 3.
I nformed:	See distribution list on Page 3.
E ndorsed:	Name: Dave Drummond Job Title: QHSE Director Signed: Signed by: Dave Drummond 5374F7DA03A54C2... Date: 25 May 2026

RACIE Terms

R	**Responsible** The person who actually produces the document.
A	**Accountable** The person who has the answer for success or failure of the quality and timeliness of the document.
C	**Consulted** Those who must be consulted before the document is published.
I	**Informed** Those who must be informed after the document is published.
E	**Endorsed** Those who must approve the document before publication.

Document Distribution
Consulted Distribution List

Date	Format (1)	Addressee / Job Title	Company	Location (2)
23.03.2026	EC	Scott Lang / Environmental Coordinator	FGJV	Cooma

Informed Distribution List

Date	Format (1)	Addressee / Job Title	Company	Location (2)
April 2026	OHC	Central Archive	FGJV	Cooma
May 2026	OHC	Central Archive	FGJV	Cooma

NOTE: *(1)* ***OHC*** *– Original Hard Copy /* ***EC****–Electronic Copy /* ***HC*** *– Hard Copy /* ***Aconex*** *–Electronic Document Management System*

Revision Tracking

Rev.	Date	Description of Revision
A	07.04.2026	Issued for review
B	22.05.2026	Updated to include SHL Comments

CONTENTS

TABLE OF TABLES

ABBREVIATIONS AND DEFINITIONS

Acronym	Definition
AWS	Automatic weather stations
BoM	Bureau of Meteorology
CoA	Condition of Approval
ECVT	Emergency Cable and Ventilation Tunnel
EPL	Environmental Protection Licence
FGJV	Future Generation Joint Venture
MAT	Main Access Tunnel
MDB	Murray Darling Basin
NEM	National Electricity Market
SHL	Snowy Hydro Limited
Snowy Scheme	Snowy Mountains Hydro-electric Scheme
SWMP	Surface Water Management Plan
TARP	Trigger Action Response Plan
TBM	Tunnel Boring Machine
WMP	Water Management Plan
WQO	Water Quality Objectives

1. INTRODUCTION

Snowy Hydro Limited (SHL) is constructing a pumped hydro-electric expansion of the Snowy Mountains Hydro-electric Scheme (Snowy Scheme), called Snowy 2.0. Snowy 2.0 will be built by the delivery of two projects: Exploratory Works and Snowy 2.0 Main Works (which is ongoing).

Snowy 2.0 is a pumped hydro-electric project that will link the existing Tantangara and Talbingo reservoirs through a series of new underground tunnels and a hydro-electric power station. Most of the project's facilities will be built underground, with approximately 27 kilometres of concrete-lined tunnels constructed to link the two reservoirs and a further 20 kilometres of tunnels required to support the facility. Intake and outlet structures will be built at both Tantangara and Talbingo Reservoirs.

Snowy 2.0 will increase the generation capacity of the Snowy Scheme by an additional 2,200 MW, and at full capacity will provide approximately 350,000 MWh of large-scale energy storage to the National Electricity Market (NEM). This will be enough to ensure the stability and reliability of the NEM, even during prolonged periods of adverse weather conditions.

Webuild, Clough, and Lane have formed the Future Generation Joint Venture (FGJV) and have been engaged to deliver both Stage 2 of Exploratory Works and Snowy 2.0 Main Works.

1.1. PURPOSE

This Environmental Water Report has been prepared to satisfy the reporting requirements in the Main Works – Water Management Plan (S2-FGJV-ENV-PLN-0010). This Quarterly Water Report is intended to provide commentary on the performance of the monitoring programs as part of the WMP (identified in Table1-1).

Table 1-1 Monitoring overview

Aspect	Objective
Surface Water Monitoring Program	
Routine receiving surface water quality monitoring	• inform and assess the performance of management processes/measures that seek to minimise the Project's impact on surface water quality • help determine source and extent of any water quality changes • collect baseline data to characterise water quality and determine site specific values
Event based wet weather overtopping water quality monitoring	
Beneficial treated and basin water reuse	• inform and assess water reuse, site balance and compliance with the infrastructure approval schedule 3, condition 30 (a)
Leachate detection program	• assess if leachate is being generated from the spoil emplacement areas. • inform management processes that seek to minimise the Project's impact on surface and groundwater.
Groundwater Monitoring Program	
Groundwater level monitoring	• inform and assess the performance of management processes/measures that seek to minimise the Project's impact on regional and local (including alluvial) aquifers and GDEs
Groundwater quality monitoring	
Leachate detection procedures	• assess if leachate is being generated from the spoil emplacement areas. • inform management processes that seek to minimise the Project's impact on surface and groundwater.

2. OVERVIEW

2.1. Reporting Period

This Environmental Water Report covers the monitoring period from 1 December 2025 to 28 February 2026.

2.2. Construction Progress

Table 2-1 summarises the key construction activities which have been undertaken during the reporting period.

Table 2-1: Key Construction Activities

Location	Key Construction Activities
Lobs Hole	**ECVT / MAT Portal** • Clearing works at AR02 HDD Marica West. • Concrete pad to be constructed in ECVT spoil yard are ongoing • F4 basin desilting works completed in February 2026. **Camp PAD** • Asphalt pavement completion at Ex-Camp. **Office PAD** • F5A basin desilting works completed. **Main Yard** • TCR01 at Pad E Main Camp has been desilted and access road works and gym expansion progressing. • A new concrete bunded area is being constructed to assist with the storage of hydrocarbons. **GF01** • F11.5 lined and concrete trench pour completed. **Talbingo** • Excavation in the diffuser base slab is completed. • Modification of the transition walls formwork is ongoing. • Diffuser walls concrete works started, installation of reinforcement steel and prefabrication of formwork panels are ongoing. • Talbingo Intake Rock Infill trial works commenced. • F13 decommissioned and a new laydown was established. **Ravine Bay** • Spoil placement ongoing from Intake and D&B tunnel. • Hydromulching activities for Ravine Bay. • SB2 and SB3 have been lined with GCL. • SB4 lining completed. • SB1 new subliner diversion line. • Middle Creek Geofabric and bridge maintenance ongoing. • Western PSE expansion benching works progressing. **Ravine Road** • Inbound and outbound wheel wash reported to be functioning and operating throughout the reporting period.

Location	Key Construction Activities
Marica	• LH, Marica, Gooandra & Tantangara (electrical connections from Talbingo substation to TBM3 Florence) • BH5 installation ongoing of GFRP. • BH2/BH3 HDD Joint Bay construction ongoing. • Excavation continues within the Marica USS which continues to be excavated using D&B methods, with spoil stockpiled in the lined area adjacent to the USS as well as associated Pads. The excavation of the Marica portal and associated pads is largely complete. • Gooandra: All culverts now installed, headwall installation underway. Road resurfacing continuing and wheel wash operational. • Ongoing weed control by Rippers rural. • Hydromuch applied across all key sites at Marica.
Rock Forest	• PSE preparation works continued within the Rock Forest PSE area. • Expanded basin adjacent site office operational. • Manual wheel wash installation now complete.
Tantangara	• Construction Milestone event at Tantangara - 5000-m tunnelling for TBM Florence. • Area is being short hauled to the Permanent Spoil Emplacement area as space is made available. Works have commenced to use screened and crushed material for the Tantangara temporary track as part of the Tantangara Intake Stage 3 works. • Excavation within the HRT01-02 tunnel by TBM 3 is ongoing. D&B excavation for the HRT Y-Junction Tunnels also continues. Material from the Tantangara Temporary Emplacement Area. • Intake Stage 3 Phase 1 temporary access road progressing with environmental inspections undertaken daily. • TBM spoil placement at the PSE ongoing. • Site-wide weed spraying onsite. • Hydromulching activities happened throughout the site. • ERSED controls added after works completed at sinkhole.

3. WEATHER CONDITIONS

There are several weather stations along the alignment of the project that report real-time data. These include:

- “Lobs Hole” - which is an Automated Weather Station managed by FGJV in Lobs Hole construction site.
- “Cabramurra” - an Automated Weather Station located near the lookout in the Cabramurra township managed by the Bureau of Meteorology
- “Tantangara” - an Automated Weather Station managed by FGJV in Tantangara construction site.

The Tantangara and Cabramurra gauges are in sub-alpine environments, with elevations of approximately 1220 m and 1475 m, respectively. Cabramurra records substantially higher annual rainfall amount than the lower-elevation gauges at Lobs Hole and Tantangara. Tantangara and Lobs Hole weather stations record actual onsite conditions at the respective construction sites, while Cabramurra weather station, at 1470 m is representative of conditions at Marica – which has an elevation of 1480 m and is approximately 15 km north of the Cabramurra Station.

A summary of climate data for the ravine and plateau areas is provided in Table 3-1.

Table 3-1: Reporting Period Weather Conditions

Parameter	Lobs Hole[1]			Marica (Cabramurra)			Tantangara[2]		
	Dec	Jan	Feb	Dec	Jan	Feb	Dec	Jan	Feb
Temperature									
Mean maximum (°C)	36.1	42.3	39.1	19.4	22.6	26.3	31.8	37.8	34.9
Mean minimum (°C)	1.7	7.4	6.4	-0.9	4.0	0	-0.8	2.6	1.1
Rainfall									
Monthly	62.4	27.6	64.4	76.6	38	39.6	58.6	25.8	56.4
Long Term Average	81.93	53.33	100.65	62.33	74.95	25.2	107.53	94.75	58.5

1. Lobs Hole long-term average rainfall is taken from the Tumbarumba weather station.
2. Tantangara long-term average rainfall is taken from the Adaminaby Alpine Tourist Park weather station.

During this reporting period, surface temperatures increased across the project area, most notably at Lobs Hole and Tantangara, where maximums peaked between 31.8 °C and 42.3°C. Lobs Hole experienced a significantly drier trend than in previous months, recording only 27.6 mm of rainfall in January. In contrast, while Tantangara maintained high maximums (31.8–37.8°C), it also displayed more extreme climatic variability with sub-zero temperatures in December. Despite the heat, Lobs Hole recorded the highest precipitation in comparison with all sites, totalling 154.4 mm in this reporting period . Meanwhile, Marica remained cooler, with maximums between 19.4°C and 26.3°C and sub-zero minimums in December and February; its rainfall volumes for the period were consistent with regional trends observed at the other sites.

4. SURFACE WATER MONITORING PROGRAM

4.1. Surface Water Quality Monitoring

Routine surface water quality monitoring is undertaken in accordance with CoA Condition 31 and Environmental Protection Licence 21266 (EPL21266) to determine if project activities may be promoting negative impacts to receiving water quality utilising adopted Water Quality Objectives (WQO's).

All relevant NATA accredited laboratory analytical results have been included in Appendix A and made available on the SHL managed website.

Within the Lobs Hole area, surface water monitoring along the Yarrangobilly River, consists of three upstream reference locations (EPL5, EPL6, and EPL12) and five downstream monitoring points (EPL8, EPL9, EPL14, EPL15, and EPL16). During this reporting period (December 2025 – February 2026), a marginal increase in Ammonia concentrations was observed at the upstream locations, with values ranging between 0.02 mg/L and 0.04 mg/L. Although these concentrations exceed the established WQOs, similar trends have historically been observed during dry conditions and periods of elevated ambient temperatures during sampling. Consequently, it can be inferred that these fluctuations are driven by environmental factors rather than project-related impacts. Furthermore, downstream concentrations remained consistent with observed upstream trends, indicating no significant degradation of water quality. This alignment suggests that downstream results are reflective of ambient background. In December, monitoring point EPL14 recorded elevated concentrations of Arsenic and Copper; however, which subsequently decreased to within WQO limits

for January and February. Conversely, a coordinated marginal increase in Dissolved Chromium was observed between January and February across sites EPL5, EPL8, EPL12, EPL14, and EPL15. These transient fluctuations are likely attributed to a significant rainfall event recorded the night prior to the sampling round. . While all other locations remained below the WQO thresholds for Total Nitrogen (TN), EPL12 reported a concentration of 0.6 mg/L in January. This result was directly influenced by Total Kjeldahl Nitrogen (TKN), which was recorded at an identical concentration.

Additionally, Lobs Hole includes three surface locations downstream of GF01: EPL24, EPL55, and EPL122. During this period, EPL122 remained dry, while EPL24 was dry during November and December, and EPL55 was dry in January. A significant reduction in TN concentrations was observed at EPL55, dropping downwards the concentrations within WQO compliance. Conversely, EPL24 continues to exhibit sustained trends exceeding the WQO limits, as reported in previous water reports.

The Marica project area consists of three surface water monitoring points EPL26, EPL27 and EPL71. EPL26 and EPL27 are located upstream of works in the Eucumbene River, while EPL71 is situated downstream of the project area, adjacent to the Marica PSE. Data from the Eucumbene River remained consistent with long-term historical datasets for the summer period, and no deviations from established seasonal ranges were observed. In contrast, EPL71 remained dry throughout the reporting period.

Surface water monitoring within the Tantangara area comprises five locations across three distinct watercourses: Kellys Plain Creek (EPL30 and EPL31); the Murrumbidgee River (EPL33); and Nungar Creek (EPL34 and EPL35). During this period, EPL33 recorded a marginal increase in concentrations of dissolved Aluminium and Total Nitrogen. In accordance with the Surface Water Management Plan (SWMP) and baseline studies, it has been demonstrated that Aluminium and nutrients regularly exceed WQO at this waterway. These elevations are representative of ambient environmental conditions rather than project activities. Furthermore, EPL30 and EPL34 exhibited negligible increases in Ammonia trends. These fluctuations can likely be attributed to localized wildlife activity in the surrounding area, as no construction works are currently being executed within these catchments.

Within the Rock Forest network, there are two EPL locations: EPL36 (upstream) and EPL37 (downstream), which monitor the Camerons Creek. Water quality in this area is heavily influenced by stock access and agricultural runoff from surrounding grazing lands. The recorded nutrient and metal (dissolved) levels are a result of localized livestock activity and are not associated with project works. This is evidenced by the consistency between upstream and downstream profiles, indicating that the nutrient load is a function of the catchment land use.

4.2. Reservoir Water Quality Monitoring

The Talbingo Reservoir monitoring network consists of five locations: EPL10, EPL11, EPL107, EPL108, and EPL109. EPL10 is the upstream reference point, while EPL11 is situated downstream of the Lobs Hole STP/WTP diffuser. The Ravine Bay area within the reservoir is monitored via EPL107, EPL108, and EPL109. As noted throughout this report, surface water temperatures increased significantly during this period. This led to a reduction in reservoir water levels, which in turn facilitated an increase in organic matter and microbiological activity. These conditions were reflected in the elevated nutrient and thermotolerant coliform concentrations observed at EPL10 and EPL11. It is important to note that these concentrations align with historical datasets; no anomalous results or deviations from established trends were recorded.

The Tantangara Reservoir monitoring network consists of seven locations: EPL28 (upstream reference) and six downstream locations EPL29, EPL32, EPL38 (between the PSE area), EPL39, EPL40, and EPL51, distributed across the reservoir. During this period, Tantangara exhibited physicochemical trends similar to Talbingo, driven by significant water level reduction and elevated

temperatures. These hydrological stressors altered the reservoir's ambient properties, evidenced by visual observations of organic matter at the upstream reference site (EPL28). On the other hand, the downstream physicochemical trends remained consistent with upstream baselines, with pH levels stabilizing between 7 and 8.5. The marginal elevations in nutrient concentrations were primarily climate-driven, with Total Kjeldahl Nitrogen (TKN) identified as the primary constituent influencing Total Nitrogen results.

As water levels dropped in the Talbingo and Tantangara Reservoirs, the combination of shallower water and summer heat likely caused nutrient and bacteria levels to rise, particularly at EPL10 and EPL11. With less water available to dilute or 'flush out' the system, the heat caused the water to sit still and lose oxygen, which triggers the release of nutrients trapped in the bottom mud. These warm, nutrient-rich conditions essentially acted as fuel for bacteria to grow more quickly.

5. GROUNDWATER MONITORING PROGRAM

5.1. Groundwater Quality Monitoring

Routine groundwater water quality monitoring is undertaken in accordance with CoA Condition 31 and Environmental Protection Licence 21266 (EPL21266) to determine if project activities promote negative impacts to groundwater receptors, utilising WQO’s as criteria.

Lobs Hole has three designated spoil emplacement areas: GF01, Main Yard, and Ravine Bay. Ravine Bay is currently the primary operational site for spoil placement activities. GF01 and Main Yard have reached their operational lifespan and are now closed to further spoil placement activities; however, they remain integrated into the project's environmental surveillance network for continuous monitoring.

The GF01 PSE monitoring network comprises two upstream reference sites (EPL56 and EPL57) and nine downstream locations (EPL58, EPL90, EPL91, EPL92, EPL93, EPL94, EPL95, EPL96, and EPL97). During this period, physicochemical parameters remained stable; however, minor fluctuations in metal concentrations were detected downstream. Specifically, Iron exhibited transient spikes during January and February, most notably at EPL90, where levels peaked in early February before receding to within WQO limits. Also, similar trends were observed at EPL91 and EPL94. These increases are likely attributed to the significant groundwater drawdown in the aquifer caused by the dry season, which tends to concentrate dissolved metals. It’s important to highlight that no construction activities occurred within the GF01 and Main Yard PSE area during this timeframe. To ensure ongoing compliance, remediation scopes and strategies of water extraction operations remain active at this site to mitigate potential impacts associated with leachate.

The Main Yard monitoring network consists of two upstream reference sites (EPL80 and EPL82) and five downstream locations (EPL81, EPL83, EPL87, EPL88, and EPL89). During this reporting period, the water quality profile remained largely stable. Total Nitrogen levels were generally compliant with the Groundwater guidelines, except for EPL87, which continued to exhibit elevated concentrations consistent with the historical baseline for this specific monitoring location, while EPL88 showed a marginal increase in February. In alignment with regional observations at GF01, metal concentrations, specifically Iron exhibited an upward trajectory for this period, likely attributable to seasonal environmental fluctuations rather than project-related impacts. Like GF01, Main Yard also has water extraction pumps as an environmental control or mitigation measure.

Ravine Bay area is monitored via two upstream sites (EPL113 and EPL114) and three downstream locations (EPL115, EPL116, and EPL117). Ravine Bay PSE is currently the active placement site for spoil generated from the Intake and D&B. During this reporting period, a marginal increase in Ammonia concentrations was observed at both upstream and downstream locations, with values

ranging between 0.03 mg/L and 0.08 mg/L. The presence of these levels at upstream sites suggests that this minor elevation is attributable to ambient background conditions rather than project-related construction activities. Similarly, consistent with other monitoring areas in Lobs Hole, Iron concentrations increased across all points, particularly at EPL117. While TN trends remained compliant with groundwater guidelines, EPL116 was an exception; this site exhibited a high load of sediment and organic matter, which was directly reflected in the TKN levels that drove an increase in the reported TN concentrations.

Regarding the Marica project area, the upstream monitoring point (EPL72) is the only location within the EPL compliance. Following the commencement of TBM4 and associated construction works, additional groundwater monitoring bores have been installed (downstream of works); these are currently being utilized to establish a comprehensive baseline dataset. At EPL72, a spike in TN concentrations was detected, which is likely attributable to heavy rainfall events in mid-January, as this location is upgradient of works and has no construction activities in its surrounding area. This anomaly has been formally reported to SHL via email.

The Tantangara PSE monitoring network consists of two upgradient reference points (EPL70 and EPL103) and four downgradient locations (EPL68, EPL69, EPL104, and EPL105). Physicochemical profiles during this reporting period remained steady, exhibiting linear correlation with baseline datasets. Notably, Ammonia concentrations were consistently maintained below WQO thresholds. While TN exceedances were recorded, these concentrations remain congruent with ambient background levels and historical peaks. Furthermore, the upward trajectory in Iron concentrations mirrored the geochemical trends observed across the Lobs Hole catchments, suggesting a regional environmental driver. To manage localized nutrient loading, active groundwater abstraction has been implemented at EPL105 and EPL68 as an environmental control strategy.

6. EVENT-BASED MONITORING

Event based wet weather overtopping water quality monitoring is undertaken in accordance with the SWMP Trigger Action Response Plan (TARP 2) to monitor stormwater overtopping sediment basin discharges. Other Events such as those enacted for TARP 1 are also included. Sediment basins for the Project have been designed to meet the design rainfalls depths identified in Table 6-1.

Table 6-1: Design Rainfall Depths (SWMP Section 5.1.1)

Catchment	Description	85th percentile, 5-day rainfall (mm)	90th percentile, 5-day rainfall (mm)	95th percentile, 5-day rainfall (mm)
Yarrangobilly River	Surface works at Lobs Hole and Marica	28.1	35.6	49.0
Upper Eucumbene River	Surface works between Marica and the Snowy Mountain Highway	35.2	43.4	56.9
Tantangara construction compound	Surface works adjacent to the southern portion of Tantangara Reservoir	30.5	37.0	51.0
Goorudee Rivulet	Surface works at Rock Forest	20.0	25.7	36.1

During the reporting period, occurrences of rainfall exceeding site design capacities of the 85th percentile 5-day rainfall depths are listed in Table 6-2 (Lobs Hole). No overtopping events were recorded at Tantangara and Marica during the reporting period.

Table 6-2 Incidents Recorded within Lobs Hole

Description	Location	Event Date	Incident Number	Rainfall Volumes	Immediate actions taken
Sediment Basin Overtopping	F5A, F10B	22/12/2025	00491	30.6 mm	Undertake basic and comprehensive sampling at upstream, downstream, impact site (mixing zone) and within basins.

7. CONCLUSION

Throughout this reporting period, it was observed that elevated temperatures combined with low rainfall totals triggered a shift in the physicochemical properties across surface water, groundwater, and reservoir environments. Despite these fluctuating climatic conditions, most monitoring locations maintained steady and linear trends. While certain dissolved metals, specifically Iron, Aluminium, and Copper exhibited increases, these results were not considered anomalous; rather, they align with the natural background behaviour and the specific environmental characteristics of each site. Furthermore, due to the prevailing dry season, no basin overtopping incidents were recorded in Tantangara or Marica, notwithstanding periodic rainfall events.

In coordination with the construction team, significant infrastructure improvements were completed, particularly at Ravine Bay. These works included the enhancement of detention basins to expand water catchment capacity and the reinforcement of Erosion and Sediment (ERSED) controls. Additionally, substantial progress was achieved in the Rock Forest construction area, including the commissioning and optimization of the PSE infrastructure.

APPENDIX A – EPL RESULTS

EPL 21266 In Situ Water Quality Measurements
EPL Monthly Monitoring December 2025

Table 1 - Surface Water Quality Data

	Water Quality Objectives (see note 1)							
	Temp (°C)	DO (%)	DO (mg/L)	EC (µS/cm)	TDS (mg/L)	pH	Redox (mV)	Turbidity (NTU)
	-	90 - 110	-	30 - 350	-	6.5 - 8.0	-	2 - 25

Date and Time	EPL Site ID	Location Description	Temp (°C)	DO (%)	DO (mg/L)	EC (µS/cm)	TDS (mg/L)	pH	Redox (mV)	Turbidity (NTU)	Field Comments	Context
1 Dec 2025, 9:16 AM	EPL5	Yarrangobilly River, upstream of the exploratory tunnel and construction pad	14.63	70.7	7.19	71	46	8.44	158	0.4	Overcast day. Minimal rain over the past few days. Water level is medium with a moderate flow. Water is clear, no odour. Hach reads 0.4 NTU.	Low DO (%) and elevated pH is representative of seasonal temperature increases and is within the baseline water quality results summary in the management plan. Low turbidity is considered ambient for an upstream location.
1 Dec 2025, 10:21 AM	EPL6	Wallace's Creek, upstream of Yarrangobilly River and Wallace's Creek confluence	12.62	66.4	7.05	67	44	8.14	177	0.03	Currently lightly raining. Small amounts of rain over the past few days. Water level is medium and flow is moderate. Water is clear with no odour. Hach meter is reading 0.3 NTU	Low DO (%) and elevated pH is typical of a streamline following minor rainfall within the previous week. No notable velocity or turbidity increases due to such rain.
1 Dec 2025, 11:35 AM	EPL8	Yarrangobilly River, downstream of Lick Hole Gully	13.13	65.8	6.91	76	49	8.16	180	1.1	Light rain. Small amounts of rain over the past few days. Water level is medium with a moderate flow. No sheen, foaming or odour. Water is very clear. Hach meter reads 1.1 NTU	Low DO (%) and elevated pH is representative of seasonal temperature increases and is within the baseline water quality results summary in the management plan. Low turbidity is consistent with the upstream locations.
1 Dec 2025, 11:51 AM	EPL9	Yarrangobilly River, downstream of the accommodation camp and upstream of Talbingo Reservoir	13.37	62.1	6.49	75	49	8.17	178	0.9	Light rain. Small amounts of rain in the past few days. Medium level with a moderate flow. No odour. Slight foaming (see photo 4).	Low DO (%) and elevated pH is representative of seasonal temperature increases and is within the baseline water quality results summary in the management plan. Low turbidity is consistent with the upstream locations.
1 Dec 2025, 9:30 AM	EPL12	Yarrangobilly River, immediately downstream of portal pad	13.57	70.6	7.35	71	46	8.29	167	0.6	Overcast day. Minimal rain over the past few days. River is at a medium level with a moderate flow. Very clear water. Plenty of vegetation surrounding. No odour. Hach meter reads 0.6 NTU	Low DO (%) and elevated pH is representative of seasonal temperature increases and is within the baseline water quality results summary in the management plan. Low turbidity is consistent with the upstream locations.
1 Dec 2025, 11:00 AM	EPL14	Yarrangobilly River, downstream of road construction areas	13.2	70.4	7.38	72	47	8.23	177	0.8	Light rain and overcast. Small amounts of rain over the past few days. Water level is medium with a moderate flow. Water is very clear with no odour. Hach meter reads 0.8 NTU.	Low DO (%) and elevated pH is representative of seasonal temperature increases and is within the baseline water quality results summary in the management plan. Low turbidity is consistent with the upstream locations.
1 Dec 2025, 11:17 AM	EPL15	Yarrangobilly River, downstream of road construction areas	13.22	63.7	6.68	74	48	8.19	178	1.3	Light rain. Small amounts of rain over the past few days. Water level is medium with a moderate flow. Water is clear, no odour, no sheens. Some slight surface foaming on a nearby tree. See photo 4. Hach meter is reading 1.3 NTU.	Low DO (%) and elevated pH is representative of seasonal temperature increases and is within the baseline water quality results summary in the management plan. Low turbidity is consistent with the upstream locations.
1 Dec 2025, 12:06 PM	EPL16	Yarrangobilly River, downstream of road construction areas	13.54	60.2	6.26	75	48	8.26	175	0.8	Overcast. Recent showers over the past few days. Water level is medium with a moderate flow. Surface has no sheen or bubbling. Water is clear. Hach meter reads 0.8 NTU. QA_LOB_1 and QA_LOB_2 taken at this location.	Low DO (%) and elevated pH is representative of seasonal temperature increases and is within the baseline water quality results summary in the management plan. Low turbidity is consistent with the upstream locations.
15 Dec 2025, 10:16 AM	EPL24	Yarrangobilly River tributary (Watercourse 2), directly downstream of road	-	-	-	-	-	-	-	-	Very low water level. Cant be sampled with disturbing creek bed. No sample taken	Sample not taken due to low water levels.
5 Dec 2025, 10:48 AM	EPL26	Eucumbene River downstream of Marica Road	15.77	65.1	6.46	24	16	8.84	165	0.4	Clear day. Water running slowly and low level. Signs of hooved animal activity near sample point. Turbity measured with Hach meter.	The recorded concentrations are representative of the ambient environmental conditions consistently observed within previous monitoring rounds at this location due to the lack of construction activities in this area.
5 Dec 2025, 10:59 AM	EPL27	Eucumbene River upstream of Marica Road	13.88	60.9	6.29	23	15	8.44	191	0.4	Clear day. No odour or sheen. Signs of hooved animal activity near sample point. No odour or sheen. Water slow flow and low level.	Physio-chemical measurements are representative of the ambient environmental conditions consistently observed at this location.
7 Dec 2025, 9:46 AM	EPL30	Kellys Plain Creek, downstream of accommodation camp and laydown areas	13.19	83.5	8.76	18	12	7.88	239	9.9	Sunny day, low flow, clear water, no dour, slow flow	The low Do (%) and EC align with historical data and expected seasonal conditions.
7 Dec 2025, 10:00 AM	EPL31	Kellys Plain Creek, upstream of accommodation camp and laydown areas	13.48	65.6	6.84	14	9	7.9	238	2.8	Sunny day, slow flow, clear water, no odour, low flow	Low EC and DO (%) is representative of the environmental conditions for this location as previously recorded within our monitoring rounds.
7 Dec 2025, 9:09 AM	EPL33	Murrumbidgee River, downstream of Tantangara reservoir outlet	15.31	73.8	7.39	13	8	7.72	253	3.78	Sunny day, clear water, slow flow, no odour, less flow than usual	Low EC and DO (%) is representative of the environmental conditions for this location, it is slightly greater than the naturally occuring streams in the surrounding area, though that could be attributed to the outlet nearby.
7 Dec 2025, 6:58 AM	EPL34	Nungar Creek, upstream of Tantangara Road	10.67	65.2	7.24	15	10	8.05	252	6.1	Sunny day, slow flow, low water level, clear water	Low EC and DO (%) is representative of the environmental conditions for this location as previously recorded within our monitoring rounds.
7 Dec 2025, 7:08 AM	EPL35	Nungar Creek, downstream of Tantangara Road	10.34	67.9	7.6	10	7	7.95	256	4.4	Sunny day, cold morning, slow flow, less flow than usual, clear water, no odour	The recorded concentrations are representative of the ambient environmental conditions consistently observed at this location.
6 Dec 2025, 10:25 AM	EPL 36	Camerons Creek, upstream of works in Rock Forest	17.62	58	5.54	33	22	6.97	232	21.8	Sunny day, slow flow, low flow, clear water, no odour	Low DO (%) is considered representative of the environmental conditions for this location.
6 Dec 2025, 11:00 AM	EPL 37	Camerons Creek, downstream of works in Rock Forest	23.68	62	5.25	39	26	7.97	219	8.9	Sunny day, no odour, slow flow, clear water	Low DO (%) is considered representative of the environmental conditions for this location..
15 Dec 2025, 12:36 PM	EPL52	GF01 leachate basin	-	-	-	-	-	-	-	-	Water level too low to reach with sample pole.	No sample taken due to low water levels.
-	EPL53	GF01 surface water upstream east	-	-	-	-	-	-	-	-	-	Location dry.
-	EPL54	GF01 surface water upstream west	-	-	-	-	-	-	-	-	-	Location dry
15 Dec 2025, 12:40 PM	EPL55	GF01 surface water downstream	-	-	-	-	-	-	-	-	No sample taken due to no flowing water.	Location dry.
-	EPL67	Nungar Creek surface water downstream west from Tantangara emplacement area	-	-	-	-	-	-	-	-	Flow to low to sample	Location dry.
5 Dec 2025, 9:08 AM	EPL71	Surface water downstream of Marica emplacement	-	-	-	-	-	-	-	-	Water level and flow too low to sample. Some small stagnant pools.	No sample taken.
2 Dec 2025, 11:14 AM	EPL84	FB Basin	20.52	80.5	7.23	711	455	9.1	158	1000	Water turbid and brown colour. Water level low. No odour or sheen.	Site is leachate storage infrastructure.
1 Dec 2025, 10:49 AM	EPL85	MY07 Basin	16.3	97.3	9.52	1.01	644	8.72	53	75.00	Recent rain. No odour or sheen. Overcast day.	Site is leachate storage infrastructure.
1 Dec 2025, 10:39 AM	EPL86	LHG01 Basin	16.19	84.5	8.29	887.00	568	8.26	41	83.4	Recent rain. No odour or sheen.	Site is leachate storage infrastructure.
15 Dec 2025, 12:38 PM	EPL98	Rock blanket diversion monitoring under GF01 liner	-	-	-	-	-	-	-	-	Site is dry	No sample taken.
5 Dec 2025, 9:52 AM	EPL99	Marica Leachate Basin Turkey's Nest	18.83	59.7	5.55	386	251	11.5	49	39.4	Clear day. No recent rain. Water green colour on surface.	Site is leachate storage infrastructure.
5 Dec 2025, 10:20 AM	EPL100	Marica Lower Leachate Basin USS Shaft	19.54	65.8	6.03	619	396	9.44	130	20.4	Clear day. No recent rain. No odour or sheen. Water green in basin and clear on surface. Algae floating on surface.	Site is leachate storage infrastructure.
5 Dec 2025, 10:07 AM	EPL101	Marica Leachate Basin Spoil Pad	19.18	100	9.23	658	421	9.69	115	12.9	Clear day. No recent rain. Water green colour in basin. No odour or sheen. Water clear on surface.	Site is leachate storage infrastructure.
1 Dec 2025, 10:15 AM	EPL106	Ravine Bay Leachate Basin	17.02	75.4	7.24	1,940.00	1,240.00	8.86	213	32.2	Decent rain approx. 6mm. No foam sheen or odour. QA 1 SAMPLED HERE , PSE_GWS flowing into Sb1	Site is leachate storage infrastructure.

EPL 21266 In Situ Water Quality Measurements
EPL Monthly Monitoring December 2025

18 Dec 2025, 12:50 PM	EPL110	Upstream monitoring of Ravine Bay emplacement area	-	-	-	-	-	-	-	-	Did not sample no water flow	No sample taken.
18 Dec 2025, 12:17 PM	EPL118	Ravine Bay Leachate basin 2	26.52	95.9	7.64	2830	1810	9.08	165	12.5	No recent rain, no nearby works no foam sheen or odour relatively clear water	Site is leachate storage infrastructure.
1 Dec 2025, 9:25 AM	EPL119	Ravine Bay Leachate basin 3	15.78	70.8	7	1170	746	8.6	202	40.2	Recent rainfall approx. 6mm. No foam sheen or odour. Orange sediment on geofabric. Slightly turbid water.	Site is leachate storage infrastructure.
-	EPL120	Ravine Bay Leachate basin 4	-	-	-	-	-	-	-	-	Dry, no water	Site is leachate storage infrastructure under construction.
15 Dec 2025, 10:29 AM	EPL122	GF01 Drainage Line (Formerly EPL 55b)	-	-	-	-	-	-	-	-	No flow. Sample not taken	Sample not taken due to low water

Table 2 - Reservoir Water Quality Data
Talbingo and Tantangara Reservoirs

Water Quality Objectives (see note 2)							
Temp (°C)	DO (%)	DO (mg/L)	EC (µS/cm)	TDS (mg/L)	pH	Redox (mV)	Turbidity (NTU)
-	90 - 110	-	20 - 30	-	6.5 - 8.0	-	1 - 20

Date and Time	EPL Site ID	Location Description	Temp (°C)	DO (%)	DO (mg/L)	EC (µS/cm)	TDS (mg/L)	pH	Redox (mV)	Turbidity (NTU)	Field Comments	Context
10 Dec 2025, 9:24 AM	EPL10	Talbingo Reservoir, downstream of road works and upstream of water intake point	22.46	98.4	8.53	69	45	8.66	217	1.21	Clear day, no rain recent, sunny, no wind. Clear green water, no sheen, no Odors.	pH and EC measurements were accompanied by elevated water body temperatures and a notable lack of water movement. Water levels within Reservoir were notably low.
10 Dec 2025, 9:10 AM	EPL11	Talbingo Reservoir, downstream of outlet	21.9	83.7	5.6	56	37	8.62	217	1.1	Clear, still day, no sheen, no Odors, no recent rain. Water clear and slight green - nothing unusual. QA TAKEN HERE	Slightly elevated pH and low DO (%) could be attributed to seasonal conditions as the reservoir temperature increases as observed in the data produced by our previous monioring rounds.
14 Dec 2025, 9:16 AM	EPL28	Tantangara Reservoir, upstream of works in the mouth of the Murrumbidgee River	15.73	78.6	7.8	18	12	8.42	138	2.4	Cloudy, cold day, previous storms. No Odors, no sheen, no colour. Clear water.	Slightly elevated pH and low DO (%) could be attributed to the tempsurature increase at the time of the sample collection as seen in previous monitoring rounds.
14 Dec 2025, 9:39 AM	EPL29	Tantangara Reservoir, downstream of works area and upstream of lower Murrumbidgee River	16.67	83.6	6.19	17	11	8.04	167	2.3	Cold windy day. Storms Prev 24hrs. Works starting on shore. Bubbles on surface, no sheen, no Odor, no colour	Slightly elevated pH and low DO (%) could be attributed to seasonal conditions as the reservoir temperature increases as observed in the data produced by our previous monioring rounds.
14 Dec 2025, 9:37 AM	EPL32	Tantangara Reservoir, Tantangara Intake. Downstream of construction works	16.5	68.7	6.71	17	11	8	165	2.1	Windy, cold day, storms Prev 24hrs. No Odors, no sheens, clear water. Bubbled on surface of water. Works have started near waters edge.	Low DO (%) and EC are within the environmental conditions of this location as observed in the data produced by our previous monioring rounds.
14 Dec 2025, 9:29 AM	EPL38	Tantangara Reservoir, variable location dependant on tide and reservoir levels. Between the emplacement area and the ancillary facilities for emplacement activities	15.94	68.5	6.77	17	11	8.1	158	2.0	Windy, cold day. Storms in Prev 24hours, no Odors, no sheen, clear water.	Low DO (%) and EC are within the environmental conditions of this location as observed in the data produced by our
14 Dec 2025, 11:48 AM	EPL39	Confluence of Nungar Creek and Tantangara Reservoir, variable location dependent on tide and reservoir levels. Upstream of Tantangara construction works	14.73	86.3	8.76	19	12	8.11	176	7.6	Windy day, white bubble on surface. No sheens. No Odor. Clear water. Medium flow and level	Low DO (%) and EC are within the environmental conditions of this location as observed in the data produced by our previous monioring rounds.
14 Dec 2025, 9:13 AM	EPL40	Confluence of the upper Murrumbidgee River and Tantangara Reservoir, variable location dependent on tide and reservoir levels. Upstream of works	15.73	78.6	7.81	21	13	8.75	125	2.6	Windy, cold day, previous storms. No Odors. No sheen. Clear water.	Low DO (%) is within the environmental conditions of this location. Slightly elevated pH is also within range of data entered from previous monioring periods.
14 Dec 2025, 9:52 AM	EPL 46	Tantangara Reservoir, diffuser outlet discharging into Tantangara Reservoir from Tantangara STP/PWTP	16.64	83.4	6.17	17	11	7.99	173	2.5	Windy and cold day. Storms in Prev 24hrs. Clear water, bubbles in surface, works started on shore. No sheen or Odors.	Low DO (%) and EC are within the environmental conditions of this location
3 Dec 2025, 11:17 AM	EPL 51	Tantangara Reservoir, downstream of Tantangara STP/PWTP diffuser outlet	14.9	88.2	8.92	20	16	7.23	144	52.7	Sunny day. Dark green water. Low res level. Intake works on land starting nearby. Turb reading inaccurate on ysi.	Low DO (%) and EC are within the environmental conditions of this location. Turbidity noted as inaccurate in field notes. Following inaccurate turbidity measurement, sampling was concluded to be reconducted at a following date.
10 Dec 2025, 8:46 AM	EPL107	Upstream monitoring of Ravine Bay emplacement area within Yarrangobilly River	21	70	6.23	40	26	8.77	236	0.91	Clear and still day, sunny, no recent rain, no sheen, no Odors, greenish clear water Turn taken y hatch	The minor elevation in EC is consistent with the historical data for this location.
10 Dec 2025, 8:43 AM	EPL108	Monitoring of Ravine Bay emplacement area (centre of PSE) within Yarrangobilly River	20.69	77.1	6.19	32	21	8.73	229	0.96	Sunny still day, no recent rain, green clear colour. No Odor, no sheen	Slightly low DO (%) is consistent with the historical data for this location.
10 Dec 2025, 8:36 AM	EPL109	Upstream monitoring of Ravine Bay emplacement area within Yarrangobilly River	20.03	85.5	7.77	25	17	8.71	227	1.9	Very quiet still morning, sunny, no recent rain. Water clear, algae near boat ramp but not near here.	Slightly low DO (%) is consistent with the historical data for this location.

Table 3 - Treated Water Quality Data
Talbingo

Water Quality Objectives (see note 3)							
Temp (°C)	DO (%)	DO (mg/L)	EC (µS/cm)	TDS (mg/L)	pH	Redox (mV)	Turbidity (NTU)
-	-	-	700	-	6.5 - 8.5	-	25

Date and Time	EPL Site ID	Location Description	Temp (°C)	DO (%)	DO (mg/L)	EC (µS/cm)	TDS (mg/L)	pH	Redox (mV)	Turbidity (NTU)	Field Comments	Context
7 Dec 2025, 8:09 AM	EPL41	Lobs Hole STP/PWTP Final Effluent Quality Monitoring Point. Downstream of final treatment, prior to discharge to Talbingo Reservoir.	20.76	86	7.7	114	74	8.01	130	26.4	Clear, no odour, no sheen, not turbid	Turbidity is slightly over WQO's. No discharge was occurring at time of sampling.

Table 4 - Treated Water Quality Data
Tantangara

Water Quality Objectives (see note 3)							
Temp (°C)	DO (%)	DO (mg/L)	EC (µS/cm)	TDS (mg/L)	pH	Redox (mV)	Turbidity (NTU)
-	-	-	200	-	6.5 - 8.5	-	25

Date and Time	EPL Site ID	Location Description	Temp (°C)	DO (%)	DO (mg/L)	EC (µS/cm)	TDS (mg/L)	pH	Redox (mV)	Turbidity (NTU)	Field Comments	Context
7 Dec 2025, 8:26 AM	EPL50	Tantangara STP/PWTP Final Effluent Quality Monitoring Point. Downstream of final treatment, prior to discharge to Tantangara Reservoir.	16.1	61.6	6.07	43	28	7.53	273	0.22	Sunny day, clear water, treatment plant in circulation before sampling, no odour	All parameters are within WQO's.

Table 5 - Groundwater Quality Data
Lobs Hole, Tantangara and Murica

Water Quality Objectives (see note 1)							
Temp (°C)	DO (%)	DO (mg/L)	EC (µS/cm)	TDS (mg/L)	pH	Redox (mV)	Turbidity (NTU)
-	-	-	30 - 350	-	6.5 - 8.0	-	-

15 Dec 2025, 11:47 AM	EPL56	GF01 Upstream east groundwater well	16.84	61.6	5.97	234	152	7.54	89	4.3	Sunny day. No recent rain. GF01 footprint above bore. Clear water. No odour.	All parameters are within WQO's.
15 Dec 2025, 12:05 PM	EPL57	GF01 Upstream west groundwater well	16.99	33.7	3.26	256	167	8.05	99	35	Sunny day. Clear water. Emplacement area encroaching on bore. no odour.	Slightly elevated pH is consistent with previous sampling rounds.
15 Dec 2025, 12:46 PM	EPL58	GF01 Downstream Groundwater well	17.45	8.6	0.82	815	521	6.08	199	3.4	Clear water. No odour. Sunny day. No recent rain. Sample taken via extraction pump.	EC concentrations being above the WQO's is within the environmental conditions recorded in previous monitoring rounds, as is the slightly lower ph.
7 Dec 2025, 11:58 AM	EPL68	Leachate detection BH downstream East	12.2	58	6.23	9	6	5.87	316	14.6	Sunny day, clear water, no odour	Slightly Low EC and pH is consistent with previous monitoring rounds for this location.
7 Dec 2025, 11:40 AM	EPL69	Tantangara groundwater downstream East	12.07	50.8	5.47	23	15	6.17	307	162	Sunny day, a bit turbid water, no odour	Slightly Low EC and pH is consistent with previous monitoring rounds for this location.
7 Dec 2025, 10:23 AM	EPL70	Tantangara groundwater upstream	13.25	46.7	4.9	61	40	6.69	290	20	Sunny day, sediment at the bottom, no odour	All parameters are within WQO's
5 Dec 2025, 6:52 AM	EPL72	Marica groundwater upstream	12.6	50.3	5.35	94	61	6.62	229	17	Clear day. No recent rain. Water clear. No odour.	All parameters are within WQO's

EPL 21266 In Situ Water Quality Measurements
EPL Monthly Monitoring December 2025

1 Dec 2025, 12:08 PM	EPL80	LHG groundwater upstream	15.36	23.1	2.31	746	478	6.61	-6	48.1	Recent rain event. No odour or sheen. Water yellowy colour.	Elevated EC consistent with background conditions recorded from previous monitoring rounds for this location.
2 Dec 2025, 12:12 PM	EPL81	LHG groundwater downstream	15.67	17.8	1.76	912.00	583	6.9	-2	5.2	Eater extracted using electric bore pump. Water clear. No odour or sheen.	Elevated EC consistent with background conditions recorded from previous monitoring rounds for this location.
2 Dec 2025, 12:21 PM	EPL82	MY groundwater upstream	16.97	18.5	1.78	287.00	184.00	6.73	-2	39.4	Clear day. Slight sulphuric odour.	All parameters are within WQLO's
2 Dec 2025, 11:28 AM	EPL83	MY groundwater downstream	15	13.6	1.37	490	319	6.43	194	14	Water extracted using electric pump. No odour or sheen.	Elevated EC is consistent with background conditions recorded from previous monitoring rounds for this location.
2 Dec 2025, 11:49 AM	EPL87	MY groundwater downstream	14.97	7.5	0.75	854	547	6.73	84	58.2	Water extracted using electric bore pump. No odour or sheen.	Elevated EC consistent with upgradient conditions for this location.
1 Dec 2025, 9:56 AM	EPL88	MY groundwater downstream	14.15	38.9	3.99	799	511	6.71	-91	15.6	Overcast day. Recent rain event.	Elevated EC consistent with upgradient conditions for this location.
1 Dec 2025, 11:49 AM	EPL89	LHG groundwater downstream	13.58	34.2	3.56	391	254	6.81	122	107	Overcast day. Recent rain. No odour or sheen. Water yellowy colour.	Elevated EC consistent with background conditions for this location.
15 Dec 2025, 10:55 AM	EPL 90	GF01 groundwater downstream	16.65	33.7	3.28	51	33	5.86	238	2.8	Sunny day. Sample taken from extraction pump. No odour. QAs taken here.	The low pH levels are consistent with the historical data and is expected for this location.
15 Dec 2025, 10:46 AM	EPL 91	GF01 groundwater downstream	20.21	58.9	5.33	258	168	7.11	196	22.3	Sunny day. No odour. Clear water. No recent rainfall.	All parameters are within WQLO's
15 Dec 2025, 11:12 AM	EPL 92	GF01 groundwater downstream	16.54	41.4	4.04	104	67	6.3	215	360	Sunny day. No recent rain. No odour. Red brown water. High turb. Sample taken with check valve.	The low pH levels are consistent with the historical data and is expected for this location.
15 Dec 2025, 11:22 AM	EPL 93	GF01 groundwater downstream	16.36	17.3	1.69	219	142	6.9	135	120	Sunny day. Brown red water. High turb. Sample taken with foot valve.	All parameters are within WQLO's
15 Dec 2025, 11:30 AM	EPL 94	GF01 groundwater downstream	16.75	14.9	1.45	171	111	6.65	89	44.2	Sunny day. Yellowish water. No odour.	All parameters are within WQLO's
15 Dec 2025, 12:55 PM	EPL 95	GF01 groundwater downstream	17.34	38.4	3.67	900	576	6.01	203	3.9	Sunny day. Clear water. Sample taken from extraction pump. No odour.	Elevated EC consistent historical ranges for this location. The slightly low pH levels have been recorded previously.
15 Dec 2025, 12:25 PM	EPL 96	GF01 groundwater downstream	18.21	23.7	2.24	522	334	7.1	148	1000	No plinth, cracked pvc, water ingress likely. Sunny day. No recent rainfall. Dark orange water. Very turbid, greater than 1000 ntu	EC concentrations being above the WQLO's is within the environmental conditions recorded in previous monitoring rounds.
15 Dec 2025, 1:01 PM	EPL 97	GF01 groundwater downstream	17.47	17.4	1.66	488	317	6.41	193	19.2	Sunny day. No recent rain. Clear water. No odour. Water in basin next to site.	Elevated EC consistent with historical ranges for this location. The slightly low pH levels have been recorded previously.
7 Dec 2025, 10:40 AM	EPL103	Upstream groundwater monitoring west of the Tantangara emplacement area	13.03	44.3	4.67	27	18	6.49	292	2.78	Sunny day, clear water, no odour	The low pH levels are consistent with the historical data and is expected for this location.
7 Dec 2025, 11:04 AM	EPL104	Downslope groundwater monitoring east of the Tantangara emplacement area	12.67	37.4	3.97	41	27	6.28	305	7.1	Sunny day, clear water, no odour	The low pH levels are consistent with the historical data and is expected for this location.
7 Dec 2025, 11:29 AM	EPL105	Downslope groundwater monitoring east of the Tantangara emplacement area	12.26	47.7	5.1	181	117	5.83	321	1.2	Sunny day, clear water, no odour	Low pH is considered ambient for this location.
1 Dec 2025, 9:44 AM	EPL113	Upstream east monitoring of Ravine Bay emplacement area	12.38	30	3.21	113	73	6.6	276	37.2	Recent rain approx. 6mm.no foam sheen or odour. No nearby works	All parameters are within WQLO's
18 Dec 2025, 11:06 AM	EPL114	Upstream west monitoring of Ravine Bay emplacement area	20.56	52	4.69	287	181	7.81	190	4	No recent rain. Clear water, no odour sheen or foam no nearby works	All parameters are within WQLO's
1 Dec 2025, 9:10 AM	EPL115	Downstream east monitoring of Ravine Bay emplacement area	12.29	23	2.46	325	211	7.52	243	107	Recent rain approx. 6mm, no foam or sheen or odour. Relatively turbid. No nearby works	All parameters are within WQLO's
1 Dec 2025, 10:30 AM	EPL116	Downstream west monitoring of Ravine Bay emplacement area	12.71	63.6	6.74	122	79	6.65	285	377	Recent rain approx. 6mm, no foam sheen or odour turbid water, no nearby works	All parameters are within WQLO's
1 Dec 2025, 10:57 AM	EPL117	Downstream monitoring of Ravine Bay emplacement area	12.63	40.1	4.26	131	85	6.74	149	56.6	Recent rain approx. 6mm, no foam sheen or odour, no nearby works, slightly turbid	All parameters are within WQLO's

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

Analyte	Unit	Limit of Reporting	Water Quality Objective Value*	EPL56	EPL57	EPL58	EPL68	EPL69	EPL70	EPL72	EPL80	EPL81	EPL82	EPL83	EPL87	EPL88	EPL89	EPL 90	EPL 91	EPL92	EPL93	EPL94	EPL95	EPL96	EPL97	EPL103	EPL104	EPL105	EPL113	EPL114	EPL115	EPL116	EPL117
				15-Dec-25	15-Dec-25	15-Dec-25	7-Dec-25	7-Dec-25	7-Dec-25	5-Dec-25	1-Dec-25	1-Dec-25	2-Dec-25	2-Dec-25	2-Dec-25	1-Dec-25	1-Dec-25	15-Dec-25	15-Dec-25	15-Dec-25	15-Dec-25	15-Dec-25	15-Dec-25	15-Dec-25	15-Dec-25	15-Dec-25	7-Dec-25	7-Dec-25	7-Dec-25	1-Dec-25	5-Dec-25	1-Dec-25	1-Dec-25	1-Dec-25
Physiochemical																																	
pH	pH Unit	-	6.5-8	7.54	8.05	6.08	5.87	6.17	6.69	6.62	6.61	6.9	6.73	6.63	6.73	6.71	6.81	5.86	7.11	6.3	6.9	6.65	6.01	7.1	6.41	6.41	6.28	5.83	6.6	7.67	7.52	6.65	6.78
Electrical Conductivity	uS/cm	-	30-350	234	256	815	9	23	61	94	746	913	287	490	854	799	991	51	258	104	219	171	900	522	688	488	41	181	113	388	335	122	131
Oxidation Reduction Potential	mV	-	No Water Quality Objective Value	88	99	199	316	307	290	229	-6	-2	-2	194	84	-91	122	238	196	215	135	89	203	148	193	193	305	321	276	163	243	285	149
Temperature	°C	-	No Water Quality Objective Value	16.84	16.99	17.45	12.3	12.07	13.25	12.6	15.36	15.67	16.97	15	14.97	14.15	13.58	16.65	20.21	16.54	16.36	16.75	17.34	18.31	17.47	17.47	12.67	12.36	12.38	22.6	12.29	13.71	12.63
Dissolved Oxygen	% saturation	-	No Water Quality Objective Value	61.6	33.7	8.6	58	50.8	46.7	50.3	23.1	17.8	18.5	13.6	7.5	38.9	34.2	33.7	58.9	41.4	17.3	14.9	38.4	23.7	17.4	17.4	37.4	47.7	30	26.5	23	53.6	40.1
Turbidity	NTU	-	No Water Quality Objective Value	4.3	35	3.4	14.6	162	20	17	48.1	5.2	39.4	14	58.2	15.6	107	2.8	22.3	360	120	44.2	3.9	1030	19.2	19.2	7.1	1.2	37.2	7.6	107	377	56.6
Laboratory analytes																																	
TSS	mg/L	5	No Water Quality Objective Value	<5	<5	<5	<5	262	5	12	18	9	84	70	26	6	244	<5	17	2,340	777	59	<5	4,770	124	<5	<5	<5	106	23	78	59	297
Hardness as CaCO3	mg/L	1	No Water Quality Objective Value	124	121	296	<1	2	13	11	113	386	1,100	56	103	132	64	16	128	62	112	84	322	203	166	<1	13	57	29	184	142	36	30
Nutrients																																	
Ammonia as N	ug/L	10	33	<10	30	<10	<10	<10	<10	10	60	80	90	<10	<10	200	<10	40	40	<10	10	<10	50	30	10	<10	<10	<10	10	20	30	50	30
Nitrite + Nitrate as N (NOx)	ug/L	10	35	460	1,300	67,900	1,010	160	820	170	<10	40	<10	20	11,000	<10	50	140	10	40	30	<10	42,400	26,900	460	360	390	3,210	20	40	<10	80	<10
Kjeldahl Nitrogen Total	ug/L	100	No Water Quality Objective Value	<100	500	4,600	200	200	200	100	100	200	100	100	800	300	100	<100	<100	400	700	<100	1,600	1,900	<100	200	200	500	300	100	200	100	100
Nitrogen (Total)	ug/L	100	250	500	1,800	52,500	1,200	400	1,000	300	100	200	100	100	12,000	300	200	100	<100	400	700	<100	46,000	30,800	500	1,100	600	3,700	300	100	200	200	100
Reactive Phosphorus	ug/L	1	15	<10	20	10	<10	<10	20	30	<10	<10	<10	<10	<10	60	<10	10	<10	10	10	<10	40	<10	<10	10	<10	<10	<10	<10	<10	<10	20
Phosphorus (Total)	ug/L	10	20	30	100	30	<10	160	60	50	100	60	90	90	210	130	80	80	70	450	1,020	60	60	540	100	30	<10	60	70	<10	20	40	410
Inorganics																																	
Cyanide Total	ug/L	4	4	<4	<4	<4	<4	<4	<4	27	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Hydrocarbons																																	
Oil and Grease	mg/L	1	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Metals																																	
Aluminium (total)	ug/L	5	No Water Quality Objective Value	28	249	70	162	4,760	546	282	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aluminium (dissolved)	ug/L	5	27	<5	<5	<5	<5	<5	<5	5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	6	9	<5	<5	<5	<5
Arsenic (total)	ug/L	0.2	No Water Quality Objective Value	<0.2	3.5	<0.2	<0.2	6.7	<0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic (dissolved)	ug/L	0.2	0.8	<0.2	3.2	<0.2	<0.2	<0.2	<0.2	<0.2	1.9	4.5	14.3	3.8	<0.2	12.7	<0.2	<0.2	0.8	0.4	0.9	0.9	1.0	<0.2	0.2	<0.2	<0.2	<0.2	0.3	0.4	0.3	0.4	1.0
Chromium (III+VI) (total)	ug/L	0.2	No Water Quality Objective Value	<0.2	1.0	0.3	0.2	5.9	0.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium (III+VI) (dissolved)	ug/L	0.2	0.01	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	1.1	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.3	0.4	<0.2	0.6	<0.2	<0.2	<0.2
Copper (total)	ug/L	0.5	No Water Quality Objective Value	2.8	80.6	25.6	1.8	34.1	20.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper (dissolved)	ug/L	0.5	1	<0.5	7.4	5.1	<0.5	1.1	3.7	1.7	<0.5	<0.5	<0.5	8.2	1.8	1.0	6.8	0.8	<0.5	<0.5	<0.5	<0.5	41.5	1.0	<0.5	5.1	0.7	1.0	53.6	0.8	<0.5	25.6	<0.5
Iron (total)	ug/L	2	No Water Quality Objective Value	23	259	49	99	4,760	339	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron (dissolved)	ug/L	2	300	<2	<2	<2	<2	<2	<2	<2	<2	280	1,620	10	<2	14	<2	<2	<2	<2	<2	2	<2	<2	<2	<2	<2	<2	11	<2	<2	<2	254
Lead (total)	ug/L	0.1	No Water Quality Objective Value	0.4	1.1	4.4	<0.1	3.5	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead (dissolved)	ug/L	0.1	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	<0.1	<0.1	<0.1	<0.1	0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Manganese (total)	ug/L	0.5	No Water Quality Objective Value	12.3	99.8	18.9	1.0	218	5.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese (dissolved)	ug/L	0.5	1 200	1.9	61.7	17.6	1.9	2.9	1.8	6.1	141	214	386	104	38.1	0.5	279	25.2	2.2	542	14.6	18.9	282	13.9	363	0.7	10.3	38.9	23.1	0.7	155	16.5	361
Nickel (total)	ug/L	0.5	No Water Quality Objective Value	<0.5	1.4	4.3	0.5	8.9	0.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel (dissolved)	ug/L	0.5	8	<0.5	<0.5	3.5	<0.5	<0.5	<0.5	1.6	17.7	2.6	0.7	14.6	57.6	3.2	2.4	1.3	0.9	<0.5	<0.5	0.7	10.7	2.9	3.0	<0.5	<0.5	7.3	<0.5	<0.5	1.1	1.1	1.7
Silver (total)	ug/L	0.01	No Water Quality Objective Value	<0.01	<0.01	0.02	<0.01	0.03	<0.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver (dissolved)	ug/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	0.02	<0.01	<0.01	<0.01	<0.01	<0.01
Zinc (total)	ug/L	1	No Water Quality Objective Value	7	5	10	3	17	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc (dissolved)	ug/L	1	2.6	1	<1	5	1	<1	<1	6	<1	<1	2	6	<1	<1	<1	3	2	2	<1	2	29	<1	33	<1	2	30	2	3	<1	6	<1

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*	EPL10	EPL11	EPL28	EPL29	EPL32	EPL38	EPL39	EPL40	EPL46	EPL51	EPL107	EPL108	EPL109
Field				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
pH	pH Unit	-	6.5-8	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
Electrical Conductivity	µS/cm	-	20-30	69	56	21	19.9	19.8	19.8	19	22	20.2	20	40	32	25
Oxidation Reduction Potential	mV	-	No Water Quality Objective Value	217	217	127.8	139.1	129.9	140.5	176	119.7	150	144	236	229	227
Temperature	°C	-	No Water Quality Objective Value	22.46	21.9	13.5	15	15	14.9	14.73	13.6	14.9	14.9	21	20.69	20.03
Dissolved Oxygen	% saturation	-	90-110	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
Turbidity	NTU	-	1-20	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
Laboratory analytes																
Total suspended solids	mg/L	5	No Water Quality Objective Value	<5	<5	6	7	<5	<5	40	5	<5	<5	<5	<5	<5
Hardness as $CaCO_3$	mg/L	1	No Water Quality Objective Value	36	24	7	2	2	7	4	9	2	2	17	14	12
Nutrients																
Ammonia as N	µg/L	10	10	190	<10	120	<10	<10	<10	70	50	<10	<10	<10	20	70
Nitrite + Nitrate as N (NOx)	µg/L	10	10	<10	<10	10	<10	<10	<10	30	<10	<10	<10	<10	<10	<10
Kjeldahl Nitrogen Total	µg/L	100	No Water Quality Objective Value	200	200	300	200	200	300	200	300	300	200	200	<100	<100
Nitrogen (Total)	µg/L	100	350	200	200	300	200	200	300	200	300	300	200	200	<100	<100
Reactive Phosphorus	µg/L	1	5	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Phosphorus (Total)	µg/L	10	10	60	<10	40	50	<10	40	40	80	40	30	<10	<10	<10
Inorganics																
Cyanide Total	µg/L	4	7	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Hydrocarbons																
Oil and Grease	mg/L	1	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Metals																
Aluminium (dissolved)	µg/L	5	55	<5	<5	37	38	40	38	17	35	38	38	<5	<5	<5
Arsenic (dissolved)	µg/L	0.2	13	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
Chromium (III+VI) (dissolved)	µg/L	0.2	1	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Copper (dissolved)	µg/L	0.5	1.4	<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
Iron (dissolved)	µg/L	2	300	21	13	138	122	128	134	75	146	124	121	6	6	4
Lead (dissolved)	µg/L	0.1	3.4	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Manganese (dissolved)	µg/L	0.5	1,900	<0.5	<0.5	3.1	1.4	2.1	1.8	2.8	6.3	1.5	1.5	<0.5	<0.5	0.9
Nickel (dissolved)	µg/L	0.5	11	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Silver (dissolved)	µg/L	0.01	0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	0.03
Zinc (dissolved)	µg/L	1	8	<1	<1	<1	<1	<1	<1	<1	4	2	<1	<1	<1	<1
Biological																
Faecal Coliforms	CFU/100mL	1	10/100^	1,900	5,900	3	-	-	-	-	-	-	<2	-	-	-
Biochemical Oxygen Demand	mg/L	2	1/5^	2	2	<2	-	-	-	-	-	-	8	-	-	-

^ 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*	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
Field				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
pH	-	-	6.5-8	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	-	-
Electrical Conductivity	µS/cm	-	30-350	71	67	76	75	71	72	74	75	-	24	23	18	14	13	15	10.0	33	39	-	-	-	-	-	-	711.00	1.01	887.00	-	386	619	658	1,940.00	-	2830	1170	-	-
Oxidation Reduction Potential	mV	-	No Water Quality Objective Value	158	177	180	178	167	177	178	175	-	165	191	239	238	253	252	256	232	219	-	-	-	-	-	-	158	53	43	-	49	130	115	213	-	165	202	-	-
Temperature	°C	-	No Water Quality Objective Value	14.63	12.62	13.13	13.37	13.57	13.2	13.22	13.54	-	15.77	13.88	13.19	13.48	15.31	10.67	10.34	17.62	23.68	-	-	-	-	-	-	20.52	16.3	16.19	-	18.83	19.54	19.18	17.02	-	26.52	15.78	-	-
Dissolved Oxygen	% saturation	-	90-110	70.7	66.4	65.8	62.1	70.6	70.4	63.7	60.2	-	65.1	60.9	83.5	65.6	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	-	-
Turbidity	NTU	-	2-25	0.4	0.03	1.1	0.9	0.6	0.8	1.3	0.8	-	0.4	0.4	0.9	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	-	-
Laboratory analytes																																								
TSS	mg/L	5	No Water Quality Objective Value	<5	<5	<5	<5	<5	<5	<5	<5	-	<5	<5	8	<5	<5	<5	<5	<5	<5	-	-	-	-	-	-	1,330	27	21	-	<5	6	10	<5	-	12	15	-	-
Hardness as CaCO3	mg/L	1	No Water Quality Objective Value	43	36	43	41	32	39	37	39	-	12	12	7	2	2	<1	<1	13	13	-	-	-	-	-	-	65	238	213	-	62	204	164	663	-	905	418	-	-
Nutrients																																								
Ammonia as N	µg/L	10	13	10	20	10	10	<10	30	10	40	-	20	<10	10	<10	<10	20	<10	40	<10	-	-	-	-	-	-	20	20	20	-	4,480	30	30	90	-	<10	10	-	-
Nitrite + Nitrate as N (NOx)	µg/L	10	11	<10	<10	<10	<10	<10	<10	<10	<10	-	20	<10	<10	<10	<10	<10	<10	70	<10	-	-	-	-	-	-	6,270	5,400	7,410	-	8,520	20,900	20,400	61,500	-	2,230	<10	-	-
Kjeldahl Nitrogen Total	µg/L	100	No Water Quality Objective Value	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	-	-
Nitrogen (Total)	µg/L	100	250	200	200	200	200	200	200	200	200	-	200	100	400	300	300	200	200	400	400	-	-	-	-	-	-	8,900	6,500	8,900	-	14,700	24,500	22,400	72,100	-	2,900	200	-	-
Reactive Phosphorus	µg/L	1	15	<10	<10	<10	<10	<10	<10	<10	<10	-	<10	50	<10	<10	<10	<10	<10	<10	<10	-	-	-	-	-	-	20	<10	<10	-	<10	<10	20	<10	-	<10	<10	-	-
Phosphorus (Total)	µg/L	10	20	<10	<10	<10	<10	<10	<10	20	30	-	20	40	40	40	60	<10	20	30	<10	-	-	-	-	-	-	1,450	40	110	-	50	30	40	10	-	40	20	-	-
Inorganics																																								
Cyanide Total	µg/L	4	4	<4	<4	<4	<4	<4	<4	<4	<4	-	<4	<4	<4	<4	<4	<4	<4	<4	<4	-	-	-	-	-	-	<4	<4	<4	-	11	<4	<4	<4	-	<4	<4	-	-
Hydrocarbons																																								
Oil and Grease	mg/L	1	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	-	-	-	-	-	-	<1.0	<1.0	<1.0	-	<1.0	<1.0	<1.0	<1.0	-	<1.0	<1.0	-	-
Metals																																								
Aluminium (total)	µg/L	5	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-
Aluminium (dissolved)	µg/L	5	27	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	-	-
Arsenic (total)	µg/L	0.2	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic (dissolved)	µg/L	0.2	0.8	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	-	-
Chromium (III+VI) (total)	µg/L	0.2	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium (III+VI) (dissolved)	µg/L	0.2	0.01	<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	0.3	-	-	-	-	-	-	2.1	4.4	0.8	-	28.0	9.0	17	1.6	-	1.9	1.1	-	-
Copper (total)	µg/L	0.5	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper (dissolved)	µg/L	0.5	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	-	-
Iron (total)	µg/L	2	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron (dissolved)	µg/L	2	300	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	-	-
Lead (total)	µg/L	0.1	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead (dissolved)	µg/L	0.1	1	<0.1	<0.1	<0.7	<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	-	-
Manganese (total)	µg/L	0.5	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese (dissolved)	µg/L	0.5	1,200	0.8	1.9	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	-	-
Nickel (total)	µg/L	0.5	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel (dissolved)	µg/L	0.5	8	<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	0.7	-	-	-	-	-	-	<0.5	2.0	1.5	-	<0.5	0.8	1.5	2.3	-	7.7	2.7	-	-
Silver (total)	µg/L	0.01	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver (dissolved)	µg/L	0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	-	-	-	-	-	<0.01	<0.01	<0.01	-	<0.01	<0.01	<0.01	<0.01	-	<0.01	<0.01	-	-
Zinc (total)	µg/L	1	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc (dissolved)	µg/L	1	7.4	<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	-	-

Snowy Hydro 2.0 Main Works

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

Analyte	Unit	Limit of Reporting	Discharge Criteria	EPL 41	EPL 50
Field				**07 Dec 2025**	**07 Dec 2025**
pH	pH Unit	-	6.5-8.5	8.01	7.53
Electrical Conductivity	µS/cm	-	700 (EPL 41) / 200 (EPL 50)	114	43
Oxidation Reduction Potential	mV	-	No Water Quality Objective Value	130	273
Temperature	°C	-	15	20.76	16.1
Dissolved Oxygen	% saturation	-	No Water Quality Objective Value	86	61.6
Turbidity	NTU	-	<25	26.4	0.22
Laboratory analytes					
Total suspended solids	mg/L	5	5/10^	<5	<5
Hardness as $CaCO_3$	mg/L	1	No Water Quality Objective Value	<1	<1
Nutrients					
Ammonia as N	µg/L	10	1000/2000^	10	40
Nitrite + Nitrate as N (NOx)	µg/L	10	No Water Quality Objective Value	490	260
Kjeldahl Nitrogen Total	µg/L	100	No Water Quality Objective Value	200	200
Nitrogen (Total)	µg/L	100	1500/3000^	700	500
Reactive Phosphorus	µg/L	1	No Water Quality Objective Value	<10	<10
Phosphorus (Total)	µg/L	10	300/500^	<10	40
Inorganics					
Cyanide Total	µg/L	4	No Water Quality Objective Value	<4	<4
Hydrocarbons					
Oil and Grease	mg/L	1	2/5^	<1.0	<1.0
Metals					
Aluminium (dissolved)	µg/L	5	55	<5	<5
Arsenic (dissolved)	µg/L	0.2	13	<0.2	0.2
Chromium (III+VI) (dissolved)	µg/L	0.2	1	<0.2	0.5
Copper (dissolved)	µg/L	0.5	14	<0.5	1.3
Iron (dissolved)	µg/L	2	300	<2	<2
Lead (dissolved)	µg/L	0.1	3.4	<0.1	0.1
Manganese (dissolved)	µg/L	0.5	1,900	<0.5	<0.5
Nickel (dissolved)	µg/L	0.5	11	<0.5	<0.5
Silver (dissolved)	µg/L	0.01	0.05	<0.01	<0.01
Zinc (dissolved)	µg/L	1	8	<1	4
Biological					
Faecal Coliforms	CFU/100mL	1	10/100^	<1	<1
Biological Oxygen Demand	mg/L	2	3.5/5^	<1	<1

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

Date	EPL 43 *	EPL 50 ^
	Discharge volume (Megalitres)	
1/12/2025	-	3.24
2/12/2025	-	-
3/12/2025	-	3.34-
4/12/2025	1.20	-
5/12/2025	-	-
6/12/2025	1.25	-
7/12/2025	0.49	-
8/12/2025	-	-
9/12/2025	-	-
10/12/2025	-	0.31
11/12/2025	0.27	0.80
12/12/2025	-	-
13/12/2025	0.22	1.02
14/12/2025	-	-
15/12/2025	-	-
16/12/2025	-	1.24
17/12/2025	-	-
18/12/2025	-	1.59
19/12/2025	-	1.73
20/12/2025	-	1.96
21/12/2025	0.67	-
22/12/2025	0.81	2.37
23/12/2025	-	2.88
24/12/2025	-	-
25/12/2025	-	-
26/12/2025	-	3.44
27/12/2025	-	3.71
28/12/2025	-	-
29/12/2025	-	3.88
30/12/2025	-	4.24
31/12/2025	-	-
Totals	4.91	32.41

\- 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.

EPL 21266 In Situ Water Quality Measurements

EPL Monthly In-Situ Monitoring January 2026

Table 1 - Surface Water Quality Data
River and Minor Watercourses

	Water Quality Objectives							
	Temp (°C)	DO (%)	DO (mg/L)	EC (µS/cm)	TDS (mg/L)	pH	Redox (mV)	Turbidity (NTU)
	-	90 - 110	-	30 - 350	-	6.5 - 8.0	-	2 - 25

Date and Time	EPL Site ID	Location Description	Temp (°C)	DO (%)	DO (mg/L)	EC (µS/cm)	TDS (mg/L)	pH	Redox (mV)	Turbidity (NTU)	Field Comments	Context
9/01/2026 9:41	EPL5	Yarrangobilly River, upstream of the exploratory tunnel and construction pad	21.36	88.3	7.81	155	101	8.31	184	4.7	Sunny day, high temperature raised lately, the flow decreased significatly in comparation with the previous periods, very clear water, no odour	Elevated pH and low DO (%) is representative of seasonal temperature increases and is within baseline water quality results summary found in the surface water management plan, (Table D.1 page 126), which refers to frequent exceedances during the summer / autumn months in both pH and DO.
9/01/2026 10:10	EPL6	Wallaces Creek, upstream of Yarrangobilly River and Wallaces Creek confluence	21.07	77.8	6.93	150	98	8.17	192	0.8	Sunny day, very low and slow flowing, clear water, no odour	Low DO (%) and elevated pH is consistent with seasonal temperature increases and is within the baseline water quality results summary in the surface water management plan, stating that frequent exceedances in DO and pH in the summer months (Table D.1 page 126). Low turbidity is consistent with the upstream locations and considered ambient for a clear water stream.
9/01/2026 11:08	EPL8	Yarrangobilly River, downstream of Lick Hole Gully	24.42	64	5.34	172	112	8.13	194	1.14	Sunny day, warm water, clear water, low flowing, no odour	Low DO (%) and elevated pH is considered as seasonal due to temperature increases and is within the baseline surface water quality results summary in the SWMP (Table D.1 page 126). Low turbidity is consistent with the upstream locations.
9/01/2026 11:23	EPL9	Yarrangobilly River, downstream of the accommodation camp and upstream of Talbingo Reservoir	24.39	85.4	7.13	157	102	8.27	193	0.85	Sunny day, warm water, slow flow, the water level has reduced, clear water, no odour	Low DO (%) and elevated pH is representative of seasonal temperature increases and is within the baseline water quality results summary (Table D.1 page 126) in the surface water management plan. Low turbidity is consistent with the upstream locations and considered ambient for a clear water stream.
9/01/2026 9:55	EPL12	Yarrangobilly River, immediately downstream of portal pad	21.61	81.6	7.19	156	101	8.36	187	2.6	Sunny day, low flowing, very clear water, no odour	Low DO (%) and elevated pH is representative of seasonal temperature increases and is within the baseline water quality results summary in the surface water management plan (Table D.1 page 126).
9/01/2026 10:24	EPL14	Yarrangobilly River, downstream of road construction areas	22.52	75	6.49	154	100	8.27	191	0.74	Sunny day, very warm day, low and slow flow, very clear water, no odour	Low DO (%) and elevated pH is representative of seasonal temperature increases and is within the baseline water quality results summary in the surface water management plan (Table D.1 page 126). Low turbidity is consistent with the upstream locations.
9/01/2026 10:55	EPL15	Yarrangobilly River, downstream of road construction areas	24.26	67.6	5.66	156	101	8.33	192	0.67	Synny day, low and slow flowing, no odour, very clear water	Low DO (%) and elevated pH is representative of seasonal temperature increases and is within the baseline water quality results summary in the surface water management plan (Table D.1 page 126) stating frequent exceedances during the warmer summer and autumn months. Low turbidity is consistent with the upstream locations.
9/01/2026 14:17	EPL16	Yarrangobilly River, downstream of road construction areas	29.88	100.9	7.64	155	101	8.58	180	0.4	Hot sunny day. No recent rain. Very warm water. Very clear. No odours.	Elevated pH is representative of seasonal temperature increases and is within the baseline water quality results summary in the surface water management (Table D.1 page126) plan.
9/01/2026 11:37	EPL24	Yarrangobilly River tributary (Watercourse 2), directly downstream of road	-	-	-	-	-	-	-	-	Very reduced flow and not representative for sampling	Location was not sampled due to low water levels and it's not representative for sampling.
17/01/2026 7:30	EPL26	Eucumbene River downstream of Marica Road	11.18	87.8	9.64	86	56	6.38	176	10.2	Low flow, evidence of animal activity, slight sheen in the still water to the side (see photo). No sheen in running water, no odors. Cold windy day, rainfall on and off prev 24hrs.	The recorded concentrations are representative of the upgradient environmental conditions consistently observed within previous monitoring rounds at this location due to the lack of construction activities in this area. A slight sheen is noticable in an indentation caused by hard hooved animals on the edge of the waterway.
17/01/2026 7:39	EPL27	Eucumbene River upstream of Marica Road	11.21	46.8	5.13	46	30	6.63	148	1.7	Low flow, water seems still - not rushing. No odors, no sheens, very cold and windy day. Little rain within 24hrs. QA taken here	Physio-chemical measurements are consistent with the environmental conditions observed at this upgradient location.
13/01/2026 9:37	EPL30	Kellys Plain Creek, downstream of accommodation camp and laydown areas	15.63	74.8	7.43	39	25	7.42	192	1.97	Clear day. No recent rain. Water clear. Low flow and level. Turbity measured with Hach meter.	Low DO% is historically consistent with previous sampling rounds.
13/01/2026 9:51	EPL31	Kellys Plain Creek, upstream of accommodation camp and laydown areas	15.52	63.7	6.35	31	20	7.29	195	0.7	Clear day. No recent rain. Water clear. Low flow and level. Signs of hard hooved animal activity near sample point.	Low DO% is historically consistent with previous sampling rounds at this upgradient location.
13/01/2026 9:10	EPL33	Murrumbidgee River, downstream of Tantangara reservoir outlet	19.75	72.9	6.66	29	19	7.35	197	22.1	Clear day. No recent rain. Water clear. Water level low. Medium flow. Reservoir discharging at time of sample collection.	Low EC and DO (%) is representative of the environmental conditions for this location, it is slightly greater than the naturally occuring streams in the surrounding area, though that could be attributed to the outlet discharging at time of sampling.
13/01/2026 8:37	EPL34	Nungar Creek, upstream of Tantangara Road	14.49	90.1	9.19	41	26	7.84	173	0.4	Clear day. No recent rain. Water level low. Low flow. Water clear.	Low turbidity is considered ambient for an upgradient clear water stream. All other parameters are within WQO's.

EPL 21266 In Situ Water Quality Measurements

EPL Monthly In-Situ Monitoring January 2026

13/01/2026 8:44	EPL35	Nungar Creek, downstream of Tantangara Road	14.53	78.7	8.02	38.0	25	7.56	182	1.7	Clear day. No recent rain. Water clear. Water low flow and level. Turbity measured with Hach meter.	The recorded concentrations are representative of the environmental conditions consistently observed at this location.
24/01/2026 12:09	EPL 36	Camerons Creek, upstream of works in Rock Forest	18.49	80.3	7.53	48	31	6.35	178	11.2	Low turbidity, no odour in sample, animal manure odour in area, warm sunny day	Low DO% and pH are representative of the environmental conditions at this upstream location.
24/01/2026 12:42	EPL 37	Camerons Creek, downstream of works in Rock Forest	22.99	65.7	5.64	60	39	6.57	206	70.9	Turbid, no odour detected, warm sunny day, low flow, located in paddock with livestock	Low DO% and pH is considered representative of the environmental conditions for this location.
12/01/2026 11:55	EPLS2	GF01 leachate basin	-	-	-	-	-	-	-	-	Water level too low to sample safely.	Location was not sampled due to low water levels.
-	EPLS3	GF01 surface water upstream east	-	-	-	-	-	-	-	-	-	This location is dry
-	EPLS4	GF01 surface water upstream west	-	-	-	-	-	-	-	-	-	This location is dry
19 Jan 2026, 10:13 AM	EPLS5	GF01 surface water downstream	-	-	-	-	-	-	-	-	No water flowing	Location was not sampled due to low water levels.
-	EPL67	Nungar Creek surface water downstream west from Tantangara emplacement area	-	-	-	-	-	-	-	-	-	The reservoir level at Tantangara is low and is not representative sample.
17/01/2026 9:21	EPL71	Surface water downstream of Marica emplacement	-	-	-	-	-	-	-	-	Dry	This location is dry
-	EPL84	F8 Basin	-	-	-	-	-	-	-	-	-	Location was not sampled due to low water levels.
27/01/2026 9:23	EPL85	MY07 Basin	-	-	-	-	-	-	-	-	Too low for sample collection	Location was not sampled due to low water levels.
27/01/2026 9:27	EPL86	LHG01 Basin	-	-	-	-	-	-	-	-	Too dry to sample	Location was not sampled due to low water levels.
19/01/2026 9:53	EPL98	Rock blanket diversion monitoring under GFO1 liner	-	-	-	-	-	-	-	-	Dry	This location is dry
17/01/2026 9:55	EPL99	Marica Leachete Basin- Turkey's Nest	14.12	70.1	7.2	394	256	7.62	82	38.4	Green water, no sheen, no odor, very windy and cold	Site is leachate storage infrastructure.
17/01/2026 8:39	EPL100	Marica Lower Leachate Basin USS Shaft	15.73	77.6	7.69	538	345	8.33	88	59.3	Too low to sample	Site is leachate storage infrastructure.
17/01/2026 8:25	EPL101	Marica Leachate Basin Spoil Pad	11.41	70.1	7.64	921	589	6.17	196	145	Very windy and cold, no sheen, no odor, slight green colour.	Site is leachate storage infrastructure.
3/01/2026 9:55	EPL106	Ravine Bay Leachate basin 1	23.01	118.5	10.1	2,120.00	1360	8.91	65	28.2	Greenish in colour. Basin 20% full. Small amount of algae observed at corner. No rainfall in last 24 hrs	Site is leachate storage infrastructure.
3/01/2026 11:34	EPL110	Upstream monitoring of Ravine Bay emplacement area	-	-	-	-	-	-	-	-	Location dry	Location was not sampled due to low water levels.
3/01/2026 12:18	EPL118	Ravine Bay Leachate basin 2	-	-	-	-	-	-	-	-	Location dry	Location was not sampled due to low water levels.
13/01/2026 10:49	EPL119	Ravine Bay Leachate basin 3	23.7	69.8	5.87	2,040.00	1,300.00	7.64	67	28	No recent rain, slightly turbid, no foam sheen or odour	Site is leachate storage infrastructure.
3/01/2026 12:15	EPL120	Ravine Bay Leachate basin 4	-	-	-	-	-	-	-	-	Brown coloured water, no inflows observed, possibility of groundwater in the basin, no sample taken , water level too low	Location was not sampled due to low water levels.
12/01/2026 10:11	EPL122	GFO1 Drainage Line (Formerly EPL S5b)	-	-	-	-	-	-	-	-	Site dry.	Location was not sampled due to low water levels.

EPL 21266 In Situ Water Quality Measurements

EPL Monthly In-Situ Monitoring January 2026

Table 2 - Reservoir Water Quality Data

Talbingo and Tantangara Reservoirs

	Water Quality Objectives							
	Temp (°C)	DO (%)	DO (mg/L)	EC (µS/cm)	TDS (mg/L)	pH	Redox (mV)	Turbidity (NTU)
	-	90 - 110	-	20 - 30	-	6.5 - 8.0	-	1 - 20

Date and Time	EPL Site ID	Location Description	Temp (°C)	DO (%)	DO (mg/L)	EC (µS/cm)	TDS (mg/L)	pH	Redox (mV)	Turbidity (NTU)	Field Comments	Context
11/01/2026 8:58	EPL10	Talbingo Reservoir, downstream of road works and upstream of water intake point	23.32	66.1	5.64	121	79	7.78	167	2.5	Sunny day, no odour, clear water, no algae visible	pH and EC measurements were accompanied by elevated water body temperatures and a notable lack of water movement. Water levels within Reservoir were notably low.
11/01/2026 8:47	EPL11	Talbingo Reservoir, downstream of outlet	23.09	75.8	6.49	79	51	8.2	151	7.7	Sunny day, no odour, clear water, no algae visible	Slightly elevated pH, EC and low DO (%) could be attributed to seasonal conditions as the reservoir temperature increases as observed in the data produced by previous monioring rounds.
26/01/2026 9:11	EPL28	Tantangara Reservoir, upstream of works in the mouth of the Murrumbidgee River	19.7	87.7	8.03	30.2	22	7.67	112.8	4.77	Turbid water, low depth. No odour or sheen. Sunny day with minimal wind.	Elevated EC and low DO (%) could be attributed to the temperature increase at the time of the sample collection as seen in previous monitoring rounds.
26/01/2026 9:55	EPL29	Tantangara Reservoir, downstream of works area and upstream of lower Murrumbidgee River	19.8	87.8	8.01	25.9	19	7.05	137.6	3.56	Turbid water, low depth. No odour or sheen. Sunny day with minimal wind.	Low DO (%) is reflective of upstream locations (EPL39 and EPL40).
26/01/2026 9:50	EPL32	Tantangara Reservoir, Tantangara Intake. Downstream of construction works	19.8	88.2	8.06	26.2	19	7.1	133.7	2.83	Turbid water. No odour or sheen. Sunny day with minimal wind.	Low DO (%) is consistent with upstream locations(EPL39 and EPL40).
26/01/2026 9:41	EPL38	Tantangara Reservoir, variable location dependant on tide and reservoir levels. Between the emplacement area and the ancillary facilities for emplacement activities	20.1	88.4	8.02	26.7	19	6.91	154.6	4.0	Turbid water, low depth. No odour or sheen. Sunny day with minimal wind.	Low DO (%) is representative of upstream locations (EPL39 and EPL40).
13/01/2026 13:47	EPL39	Confluence of Nungar Creek and Tantangara Reservoir, variable location dependent on tide and reservoir levels. Upstream of Tantangara construction works	24.13	75	6.3	26	17	6.84	196	35.5	Clear day. No recent rain. Water flowing slowly. Level low. Signs of hard hooved animals at sample point.	This is an upstream location and has not been affected by the project.
26/01/2026 9:19	EPL40	Confluence of the upper Murrumbidgee River and Tantangara Reservoir, variable location dependent on tide and reservoir levels. Upstream of works	20.2	88.2	7.98	29.7	21	6.78	146.1	4.19	Turbid water, low depth. No odour or sheen. Sunny day with minimal wind. Vegetation growth visible	This is an upstream location and there has been no construction works in this area.
26/01/2026 10:05	EPL 51	Tantangara Reservoir, downstream of Tantangara STP/PWTP diffuser outlet	19.8	88	8.04	26	19	7	136	4.75	Turbid water, low depth. No odour or sheen. Sunny day with minimal wind.	Low DO (%) is consistent with upstream locations.
11/01/2026 8:33	EPL107	Upstream monitoring of Ravine Bay emplacement area within Yarrangobilly River	22.32	106.2	9.23	58	38	8.19	141	7	Sunny day, clear water, no odourfe	The minor elevation in EC and pH is consistent with the historical data for this location.
11/01/2026 8:26	EPL108	Monitoring of Ravine Bay emplacement area (center of PSE) within Yarrangobilly River	21.52	82.2	7.26	46	30	8.25	133	8.4	Sunny day but a bit colder, clear water, no odour	The minor elevation in EC is consistent with the historical data for this location. Slightly elevated pH and EC are consistent with the upstream location.
11/01/2026 8:15	EPL109	Upstream monitoring of Ravine Bay emplacement area within Yarrangobilly River	20.61	93.4	8.39	45	29	8.42	115	1.43	Sunny but a bit cold morning, clear water, no odour, QA for this location	Slightly elevated pH and EC are consistent with the upstream location.

Table 3 - Treated Water Quality Data

Talbingo

	Water Quality Objectives							
	Temp (°C)	DO	DO (mg/L)	EC (µS/cm)	TDS (mg/L)	pH	Redox (mV)	Turbidity (NTU)
	-	-	-	700	-	6.5 - 8.5	-	25

Date and Time	EPL Site ID	Location Description	Temp (°C)	DO (%)	DO (mg/L)	EC (µS/cm)	TDS (mg/L)	pH	Redox (mV)	Turbidity (NTU)	Field Comments	Context
14/01/2026 9:07	EPL41	Lobs Hole STP/PWTP Final Effluent Quality Monitoring Point. Downstream of final treatment, prior to discharge to Talbingo Reservoir.	25.73	94.3	7.69	28	18	8.26	136	1.1	Sample area clean and tidy. QA's taken here. Water temperature at 25.73.	All reading are within WQO limits.

Table 4 - Treated Water Quality Data

Tantangara

	Water Quality Objectives							
	Temp (°C)	DO	DO (mg/L)	EC (µS/cm)	TDS (mg/L)	pH	Redox (mV)	Turbidity (NTU)
	-	-	-	168	-	6.5 - 8.5	-	25

Date and Time	EPL Site ID	Location Description	Temp (°C)	DO (%)	DO (mg/L)	EC (µS/cm)	TDS (mg/L)	pH	Redox (mV)	Turbidity (NTU)	Field Comments	Context
26/01/2026 7:57	EPL50	Tantangara STP/PWTP Final Effluent Quality Monitoring Point. Downstream of final treatment, prior to discharge to Tantangara Reservoir.	20.7	86.8	7.79	111.9	79	7.36	117.9	0.56	Clear flowing water from tap. No odour or sheen. Sunny day, minimal wind. QA's here	All reading are within WQO limits.

EPL 21266 In Situ Water Quality Measurements

Table 5 - Groundwater Quality Data
GF01 Surface Water and Groundwater

EPL Monthly In-Situ Monitoring January 2026

Water Quality Objectives						
Temp (°C)	DO (%)	DO (mg/L)	EC (µS/cm)	TDS (mg/L)	pH	Redox (mV)	Turbidity (NTU)
-	90 - 110	-	30 - 350	-	6.5 - 8.0	-	2 -25

Date and Time	EPL Site ID	Location Description	Temp (°C)	DO (%)	DO (mg/L)	EC (µS/cm)	TDS (mg/L)	pH	Redox (mV)	Turbidity (NTU)	Field Comments	Context
12/01/2026 10:43	EPLS6	GF01 groundwater upstream east	17.6	32.6	3.11	232	151	7.09	139	1.2	Sunny day. Clear water. No odour. Emplacement area above height of bore. Concrete plinth breaking down.	Slightly low DO (%) is consistent with the historical data for this upstream location.
12/01/2026 11:01	EPLS7	GF01 groundwater upstream west	19.87	31.3	2.85	262	171	7.91	134	20.6	Sunny day. Clear water. No recent rain. Spoil above bore. Concrete plinth breaking down.	Slightly low DO (%) is consistent with the historical data for this upstream location.
19/01/2026 10:03	EPLS8	GF01 groundwater downstream	18.27	87	8.16	946	605	6.07	144	6.4	Clear water, no odor, no sheen, no rain prev	EC concentrations being above the WQO's is within the historical conditions recorded in previous monitoring rounds, as is the slightly lower pH and DO (%).
31/01/2026 9:55	EPL68	Tantangara groundwater downstream West	15.79	60.4	5.99	23	15	5.32	289	11.5	Hot day. No recent rain. Water clear. Water extracted using electric bore pump.	Low pH, EC and DO is generally consistent with the historical data for this location. These fall in line with current seasonal changes.
23/01/2026 13:18	EPL69	Tantangara groundwater downstream East	15.59	46.7	4.65	51	33	5.89	233	82.4	Hot sunny day, slightly turbid, no odours	Low pH and DO is generally consistent with the historical data for this location. These fall in line with current seasonal changes.
23/01/2026 12:09	EPL70	Tantangara groundwater upstream	14.27	121.1	12.39	221	144	7.28	130	109	Sunny hot day, slightly turbid stratified water, no odours	This location is upgradient of works and therefore representative of background conditions.
24/01/2026 9:04	EPL 72	Marica groundwater upstream	13.28	110.8	11.6	97	63	6.16	254	17.25	High clarity, no odours, sunny day	This location is upgradient of works and therefore representative of background conditions.
12/01/2026 10:58	EPL80	Lick Hole Gully groundwater upstream	20.61	5.2	0.46	951	608	6.79	6	151	Clear day. No recent rain. Water orange colour. Sediment in base of sleeve.	This location is upgradient of works and therefore representative of background conditions.
27/01/2026 9:34	EPL81	Lick Hole Gully groundwater downstream	20.67	23.7	2.12	934	598	6.63	-17	40	Clear water no odor, no works nearby	Elevated EC and low DO align with upgradient conditions of works.
12/01/2026 11:13	EPL82	Main Yard groundwater upstream	20.68	86.9	7.72	284	1.81	6.7	-24	62.1	Clear day. No recent rain. Water clear. Slight sulphuric odour.	This location is upgradient of works and therefore representative of background conditions.
12/01/2026 9:39	EPL83	Main Yard groundwater downstream	17.92	5.7	0.54	579	370	6.46	17	12.7	Clear day. No recent rain. Water clear no odour or sheen. Water extracted using electric bore pump.	Elevated EC and low DO aligns with results up gradient of works.
27/01/2026 9:07	EPL87	Main Yard groundwater downstream	17.98	122	11.52	838	536	7.11	217	23.5	No depth measured due to pump installation Clear water, no odor no works ongoing in area, hot dry weather. Noted as much clearer than usual, not heavily turbid like usual	Elevated EC and low DO aligns with results up gradient of works.
12/01/2026 8:55	EPL88	Main Yard groundwater downstream	16.01	77.8	7.66	980	627	7.12	-43	5.2	Clear day. No recent rain. Water clear no odour or sheen.	Elevated EC and low DO aligns with results up gradient of works.
27/01/2026 9:50	EPL89	Lick Hole Gully groundwater downstream	18.49	109.4	10.24	421	274	7.25	90	174	Turbid water, had to redid for a full sample sleeve. No odors, no sheen. No prev rain. Very dry.	Elevated EC consistent with background conditions for this location.
19/01/2026 10:47	EPL 90	GF01 groundwater downstream	22.01	84.1	7.35	95	62	7.44	162	10.5	Clear water, no odor, no sheen	Low DO is generally consistent with the historical data for this location.
12/01/2026 10:00	EPL 91	GF01 groundwater downstream	16.03	50.5	4.97	249	162	6.96	-15	10.5	Sunny day. No recent rain. No smell. Clear water.	Low DO is generally consistent with the historical data for this location.
12/01/2026 11:25	EPL 92	GF01 groundwater downstream	17.84	104.4	9.91	125	81	6.8	169	721	Sunny day. No recent rain. Milky coloured water. No odour.	High turbidity is consistent with this location's historical data.
12/01/2026 11:35	EPL 93	GF01 groundwater downstream	17.2	39.7	3.82	237	154	7.04	-10	1000	Sunny day. No recent rain. Very turbid, greater than 1000ntu.	Low DO aligns with historical data for this location. Turbity has been high in this location during previous sampling rounds.
12/01/2026 11:44	EPL 94	GF01 groundwater downstream	17.62	19	1.81	176	115	6.78	39	53.7	Summy day. No recent rain. No odour. Slighlty orange yellow water.	Low DO aligns with historical data and the upstream location. Turbity is within the range of previous sample rounds in this location.
19/01/2026 10:01	EPL 95	GF01 groundwater downstream	19.59	83.5	7.64	876	561	6.1	138	92.6	Clear water no odor, no sheen	Elevated EC and low pH have been consistent at this location for this current seasonal range. DO is consistent with the upgradient location.
19/01/2026 9:46	EPL 96	GF01 groundwater downstream	17.01	88	8.49	510	326	6.89	131	1000	Very turbid water, piping cracked and Brocken for as far as I can see down. No odors, no sheen. 1000 ntu is representative of water conditions	Elevated EC and low DO are consistent with historical ranges for this location.

EPL 21266 In Situ Water Quality Measurements

EPL Monthly In-Situ Monitoring January 2026

19/01/2026 10:59	EPL 97	GF01 groundwater downstream	20.8	92.4	8.27	501	320	6.67	163	24.6	Clear water, no odor, no sheen	Elevated EC is consistent at this location for this current seasonal range.
23/01/2026 12:25	EPL103	Upstream groundwater monitoring west of the Tantangara emplacement area	14.53	65.6	6.68	65	42	6.88	156	4.6	Hot sunny day, high clarity, no odours,	This location is upgradient of works and therefore low DO is considered representative of background conditions.
23/01/2026 12:41	EPL104	Dowslope groundwater monitoring east of the Tantangara emplacement area	15.75	51.8	5.14	62	41	6.13	201	13.6	Hot sunny day, high clarity, no odours,	Low DO aligns with results upgradient of PSE. The pH concentration is slightly outside of the WQO's however consistent with low levels throughout Tantangara PSE area.
23/01/2026 12:57	EPL105	Dowslope groundwater monitoring east of the Tantangara emplacement area	14.76	55.7	5.64	107	71	5.63	245	15.7	qa_tan01 and QA_TAN02 collected here, sunny hot day, clear water, no dtb or dtw due to pump setup on well	Low DO and pH are consistent with historical data for this location.
13/01/2026 10:22	EPL113	Upstream east monitoring of Ravine Bay emplacement area	16.2	3.4	0.34	126	82	6.42	110	22	No recent rain slightly turbid, no foam sheen or odour. No nearby works	This is an upgradient location and not affected by project activities.
3/01/2026 11:57	EPL114	Upstream west monitoring of Ravine Bay emplacement area	20.45	30	2.7	371	241	7.15	132	0	Clean water sample. No odour. No rainfall in last 24 hrs	This location is upgradient of works and therefore representative of background conditions.
3/01/2026 12:33	EPL115	Downstream east monitoring of Ravine Bay emplacement area	20	103.9	9.43	354	230	7.61	130	3.7	Clear water. No odour. No rainall in last 24 hrs. Hydromulched around the batter.	Elevated EC directly aligns with results upgradient of PSE.
3/01/2026 10:11	EPL116	Downstream west monitoring of Ravine Bay emplacement area	17.72	84	7.99	163	106	7.35	157	274.00	Slightly turbid water. No odour. No rainfall in last 24 hrs.	DO is elevated compared to the upgradient location these results are similar in comparison to January 2025. Turbity is noted in the field notes and also the physio-chemical results.
13/01/2026 9:54	EPL117	Downstream monitoring of Ravine Bay emplacement area	16.03	9.6	0.95	169	110	7.16	-48	68.3	Turbid water, no odour, sheen or foam. No nearby works. No recent rain	DO % is low at this location and is comparative of January 2025.

Snowy Hydro 2.0 Main Works EPL Sampling: 01 - 31 January 2026

Webuild • Clough •

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 26 September 2025, and the approved Water Management Plan to ensure that works are not impacting on nearby receiving waters.

Surface Water Results: Lobs Hole Surface Water monitoring has recorded an upward trend in Total Kjeldahl Nitrogen (TKN) at upstream locations EPL5 (300 µg/L) and EPL12 (600 µg/L). These TKN elevations are the primary drivers of the reported Total Nitrogen concentrations. Additionally, while Hardness (as CaCO3) increased across all Lobs Hole surface monitoring points (ranging from 22 mg/L to 88 mg/L), these values align with the baseline data for summer/dry conditions as defined in the Surface Water Management Plan. Concerning Tantangara, Total Nitrogen concentrations across all sites trended downward and remained within the WQO. However, some exceedances for Ammonia (as N) were noted at EPL30 and EPL34. These are likely attributable to surrounding animal activity rather than project-related impacts. Monitoring points EPL26 and EPL27 are compliant with all WQO standards for Nutrients. The total rain recorded for January was 27.6mm, which is a large contributing factor in the environmental conditions around the smaller streams and reporting locations which have not been flowing throughout the month.

Reservoir Results: Monitoring at Talbingo Reservoir has identified a significant increase in surface temperatures compared to the previous two reporting periods. This seasonal warming has likely driven a rise in nutrient concentrations notably at EPL109, which recorded 400 µg/L for Total Nitrogen (driven primarily by TKN). Additionally, declining reservoir water levels have resulted in increasing turbidity (NTU) and heightened algal activity within the reservoir. A notable increase in E. coli concentrations was recorded at EPL11 during this period. It is important to highlight that these levels are consistent with seasonal environmental conditions and typically align with higher summer temperatures. Tantangara Reservoir sites continue to show stable trends. Notably, Ammonia at EPL28 dropped from 120 µg/L to <10 µg/L (meeting WQO). Although Total Nitrogen increased at this same site, the elevation is unrelated to project works, as EPL28 represents an upstream reference location.

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's.

Groundwater Results: During the January monitoring period, exceedances of pH and other water quality parameters were observed at both upstream and downstream locations across all three sites. While upstream electrical conductivity concentrations at EPL56 and EPL57 remained stable (between 232 µS/cm and 262 µS/cm), significant elevations were noted at EPL58 and EPL95, ranging from 800 µS/cm to 950 µS/cm, in comparison with the upgradient conditions. It is important to note that these locations are subject to weekly testing and are situated within active rehabilitation areas. Regarding the nitrogen trends within the reporting period, nutrient concentrations have been recorded in locations which frequently report higher concentration levels outside of the WQO's within GF01 upgradient and downgradient bores, Mainyard (EPL97) which is below the basins and the last borehole location along the downgradient of the natural watercourse. Tantangara emplacement locations both upgradient and downgradient that usually report slightly greater concentrations have remained steady in their exceedances. Increases have been observed in filtered Iron and Chromium at EPL90; however, these fluctuations align with historical trends for this site. Regarding Tantangara Groundwater, most locations remain consistent with historical baselines. Notably, EPL69 and EPL70 showed a downward trend in several metals, including Iron, Lead, Manganese, and Nickel, during this period.

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 leachate water. Elevated nutrients were primarily observed in leachate basin locations and will be discussed further in the dedicated leachate results section.

Snowy Hydro 2.0 Main Works
Monthly EPL Sampling: 01-31 January 2026 - Groundwater

Analyte	Unit	Limit of Reporting	Water Quality Objective Value*	EPL56	EPL57	EPL58	EPL68	EPL69	EPL70	EPL72	EPL80	EPL81	EPL82	EPL83	EPL87	EPL88	EPL89	EPL 90	EPL 91	EPL92	EPL93	EPL94	EPL95	EPL96	EPL97	EPL103	EPL104	EPL105	EPL113	EPL114	EPL115	EPL116	EPL117
Physicochemical				12/01/26	12/01/26	19/01/26	31/01/26	23/01/26	31/01/26	24/01/26	12/01/26	27/01/26	13/01/26	12/01/26	27/01/26	12/01/26	27/01/26	19/01/26	12/01/26	12/01/26	12/01/26	12/01/26	19/01/26	19/01/26	18/01/26	23/01/26	23/01/26	23/01/26	11/01/26	3/01/26	3/01/26	3/01/26	13/01/26
pH	pH Unit	0.26	6.5-8	7.09	7.91	6.07	5.32	5.89	6.26	6.16	6.79	6.63	6.7	6.46	7.31	7.12	7.25	7.44	6.96	6.8	7.04	6.78	6.1	6.89	6.67	6.88	6.13	5.63	6.42	7.15	7.61	7.35	7.16
Electrical Conductivity	µS/cm	-	30-350	232	262	946	23	51	168	97	951	934	284	579	838	980	421	95	249	125	237	176	876	510	501	65	62	107	126	371	354	163	169
Oxidation Reduction Potential	mV	-	No Water Quality Objective Value	139	134	144	289	233	200	254	6	-17	-24	17	217	-63	90	162	-15	169	-10	39	138	131	163	156	201	245	110	132	130	157	-48
Temperature	°C	-	No Water Quality Objective Value	17.6	19.97	18.27	15.79	15.59	15.96	13.28	20.61	20.67	20.68	17.92	17.98	16.01	18.49	22.01	16.03	17.84	17.2	17.62	19.59	17.01	20.8	14.53	15.75	14.76	16.2	20.45	20	17.72	16.03
Dissolved Oxygen	% saturation	-	No Water Quality Objective Value	32.6	31.3	87	60.4	46.7	111.4	110.8	5.2	23.7	86.9	5.7	122	77.8	109.4	84.1	50.5	104.4	39.7	19	83.5	88	92.4	65.6	51.8	55.7	3.4	30	103.9	84	9.6
Turbidity	NTU	-	No Water Quality Objective Value	1.2	20.6	6.4	11.5	82.4	37	17.25	151	40	62.1	12.7	23.5	5.2	174	10.5	10.5	721	1000	53.7	92.6	1000	24.6	4.6	13.6	15.7	22	0	3.7	274	68.3
Laboratory analytes																																	
TSS	mg/L	5	No Water Quality Objective Value	9	26	<5	<5	143	15	11	15	62	53	<5	24	<5	243	5	15	1,540	1,160	78	<5	1,300	47	29	461	197	58	6	29	461	197
Hardness as CaCO3	mg/L	1	No Water Quality Objective Value	107	110	313	<1	9	20	21	423	447	1,290	118	138	190	73	39	128	52	126	84	324	215	155	145	42	39	36	170	145	42	39
Nutrients																																	
Ammonia as N	µg/L	10	13	<10	<10	<10	<10	<10	<10	<10	70	110	140	30	30	260	20	<10	20	<10	40	<10	<10	200	<10	30	10	40	<10	90	30	10	60
Nitrite + Nitrate as N (NOx)	µg/L	10	15	510	2,940	41,600	900	180	840	680	10	<10	30	100	13,000	<10	60	150	<10	40	<10	<10	39,600	29,200	100	<10	80	30	40	50	<10	80	10
Kjeldahl Nitrogen Total	µg/L	100	No Water Quality Objective Value	<100	300	1,350	200	200	200	200	200	200	200	100	1,000	300	<100	<100	<100	<500	1,000	<100	2,000	8,300	<100	200	200	<100	200	100	200	200	<100
Nitrogen (Total)	µg/L	100	250	500	3,200	42,900	1,100	400	1,000	900	200	200	200	200	14,000	300	<100	200	<100	<500	<1,000	<100	41,600	35,500	100	200	300	<100	200	200	200	300	<100
Reactive Phosphorus	µg/L	1	15	<10	10	10	<10	<10	10	20	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	10	10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Phosphorus (Total)	µg/L	10	20	<10	20	30	<10	70	60	30	110	100	60	20	50	130	200	30	30	410	400	50	10	1,560	50	40	100	300	<10	20	40	100	300
Inorganics																																	
Cyanide Total	µg/L	4	4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Hydrocarbons																																	
Oil and Grease	mg/L	1	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Metals																																	
Aluminium (total)	µg/L	5	No Water Quality Objective Value	57	476	8	101	3,100	358	425	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aluminium (dissolved)	µg/L	5	27	<5	<5	<5	<5	<5	<5	12	<5	22	<5	<5	<5	<5	<5	3910	<5	<5	<5	<5	<5	18	<5	<5	<5	<5	10	<5	<5	<5	<5
Arsenic (total)	µg/L	0.2	No Water Quality Objective Value	<0.2	4.0	<0.2	<0.2	1.4	<0.2	<0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic (dissolved)	µg/L	0.2	0.8	<0.2	3.5	<0.2	<0.2	<0.2	<0.2	<0.2	0.9	29.0	4.6	13.1	0.3	10.0	0.2	0.6	1.3	0.4	6.1	0.6	0.8	<0.2	0.2	0.2	0.3	0.4	0.3	0.3	0.2	0.3	0.4
Chromium (III+VI) (total)	µg/L	0.2	No Water Quality Objective Value	0.3	1.9	0.3	0.2	6.8	0.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium (III+VI) (dissolved)	µg/L	0.2	0.01	<0.2	<0.2	0.3	<0.2	<0.2	<0.2	<0.2	<0.2	0.3	<0.2	<0.2	1.0	0.3	<0.2	3.6	<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
Copper (total)	µg/L	0.5	No Water Quality Objective Value	3.9	113	4.4	1.3	22.5	46.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper (dissolved)	µg/L	0.5	3	<0.5	7.2	7.4	4.5	4.1	23.7	8.5	<0.5	<0.5	<0.5	3.9	3.7	1.0	10.3	10.3	<0.5	<0.5	<0.5	<0.5	724	<0.5	<0.5	<0.5	5.2	<0.5	6.5	0.8	<0.5	5.2	<0.5
Iron (total)	µg/L	2	No Water Quality Objective Value	70	478	6	72	3,690	206	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron (dissolved)	µg/L	2	300	<2	<2	<2	3	<2	<2	<2	5	6,120	215	3	<2	17	17	2,030	8	<2	<2	4	<2	7	86	<2	<2	3	12	<2	<2	<2	3
Lead (total)	µg/L	0.1	No Water Quality Objective Value	0.7	1.6	2.6	<0.1	2.2	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead (dissolved)	µg/L	0.1	1	<0.1	<0.1	2.2	0.3	<0.1	0.1	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	11.3	<0.1	0.8	<0.1	<0.1	0.6	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Manganese (total)	µg/L	0.5	No Water Quality Objective Value	24	139	9.9	2.4	180	5.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese (dissolved)	µg/L	0.5	1,200	1.8	92.5	10	1.8	6.0	2.2	7.8	259	336	437	130	2.2	294	13.0	467	665	33.0	388	186	351	104	636	82.7	12.8	239	21.8	44.7	82.7	12.8	239
Nickel (total)	µg/L	0.5	No Water Quality Objective Value	<0.5	1.8	4	0.5	5.3	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel (dissolved)	µg/L	0.5	8	<0.5	<0.5	3.6	<0.5	0.6	0.5	2.6	18.1	4.7	0.8	22.6	4.6	3.0	2.6	30.0	0.8	<0.5	0.7	<0.5	9.4	7.6	3.7	0.6	0.8	7.9	<0.5	0.6	0.6	0.8	7.9
Silver (total)	µg/L	0.01	No Water Quality Objective Value	<0.01	0.02	<0.01	<0.01	0.05	<0.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver (dissolved)	µg/L	0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Zinc (total)	µg/L	1	No Water Quality Objective Value	9	8	10	2	11	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc (dissolved)	µg/L	1	2.4	<1	<1	10	5	2	7	9	<1	8	2	2	<1	1	<1	14	<1	<1	<1	1	36	5	83	<1	2	1	1	2	<1	2	1

Snowy Hydro 2.0 Main Works

Monthly EPL Sampling: 01-31 January 2026 - Talbingo and Tantangara Reservoir

Analyte	Unit	Limit of Reporting	Water Quality Objective Value*	EPL10	EPL11	EPL28	EPL29	EPL32	EPL38	EPL39	EPL40	EPL51	EPL107	EPL108	EPL109
Field				1/11/26	1/11/26	26/1/2026	26/1/2026	26/1/2026	26/1/2026	13/1/2026	26/1/2026	26/1/2026	11/1/26	11/1/26	11/1/26
pH	pH Unit	-	6.5-8	7.78	8.2	7.67	7.05	7.1	6.91	6.84	6.78	7	8.19	8.25	8.42
Electrical Conductivity	µS/cm	-	20-30	121	79	30.2	25.9	26.2	26.7	26	29.7	26	58	46	45
Oxidation Reduction Potential	mV	-	No Water Quality Objective Value	167	151	112.8	137.6	133.7	154.6	196	146.1	136	141	133	115
Temperature	°C	-	No Water Quality Objective Value	23.32	23.09	19.7	19.8	19.8	20.1	24.13	20.2	19.8	22.32	21.52	20.61
Dissolved Oxygen	% saturation	-	90-110	66.1	75.8	87.7	87.8	88.2	88.4	75	88.2	88	106.2	82.2	93.4
Turbidity	NTU	-	1-20	2.5	7.7	4.77	3.56	2.83	4.02	35.5	4.19	4.75	7	8.4	1.43
Laboratory analytes															
Total suspended solids	mg/L	5	No Water Quality Objective Value	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Hardness as $CaCO_3$ (filtered)	mg/L	1	No Water Quality Objective Value	53	36	9	9	9	9	7	9	9	22	17	14
Nutrients															
Ammonia as N	µg/L	10	10	<10	<10	<10	<10	10	40	<10	20	<10	<10	<10	<10
Nitrite + Nitrate as N (NOx)	µg/L	10	10	<10	<10	140	<10	<10	<10	30	<10	<10	<10	<10	<10
Kjeldahl Nitrogen Total	µg/L	100	No Water Quality Objective Value	200	100	400	300	300	300	<100	300	300	<100	100	400
Nitrogen (Total)	µg/L	100	350	200	100	500	300	300	300	<100	300	300	<100	100	400
Reactive Phosphorus	µg/L	10	5	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Phosphorus (Total)	µg/L	10	10	20	<10	<10	<10	<10	<10	<10	<10	<10	20	<10	30
Inorganics	µg/L														
Cyanide Total	µg/L	4	7	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Hydrocarbons															
Oil and Grease	µg/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
Metals															
Aluminium (dissolved)	µg/L	5	55	<5	<5	35	39	39	40	43	37	39	<5	<5	5
Arsenic (dissolved)	µg/L	0.2	13	0.8	0.5	0.3	0.3	0.3	0.3	0.2	0.3	0.3	0.3	0.3	0.3
Chromium (III+VI) (dissolved)	µg/L	0.2	0.01	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Copper (dissolved)	µg/L	0.5	1.4	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Iron (dissolved)	µg/L	2	300	95	30	243	191	195	198	98	263	198	18	12	11
Lead (dissolved)	µg/L	0.1	3.4	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Manganese (dissolved)	µg/L	0.5	1,900	<0.5	<0.5	1.5	1.5	1.5	1.7	3.7	1.5	1.5	<0.5	<0.5	<0.5
Nickel (dissolved)	µg/L	0.5	11	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Silver (dissolved)	µg/L	0.01	0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Zinc (dissolved)	µg/L	1	8	<1	<1	<1	1	<1	<1	<1	<1	<1	<1	<1	<1
Biological															
Faecal Coliforms	CFU/100mL	1	10/100^	3,000	18,000	180	-	-	-	-	-	21	-	-	-
Biochemical Oxygen Demand	mg/L	2	1/5^	3	3	2	-	-	-	-	-	2	-	-	-

Snowy Hydro 2.0 Main Works
Monthly EPL Sampling: 01-31 January 2026 - Surface Water

Analyte	Unit	Limit of Reporting	Water Quality Objective Value*	EPL5	EPL6	EPL8	EPL9	EPL12	EPL14	EPL15	EPL16	EPL24	EPL26	EPL27	EPL30	EPL31	EPL33	EPL34	EPL35	EPL36	EPL37	EPL52	EPL53	EPL54	EPL55	EPL67	EPL71	EPL84	EPL85	EPL86	EPL98	EPL99	EPL100	EPL101	EPL106	EPL110	EPL118	EPL119	EPL120	EPL122
Field				9/01/26	9/01/26	9/01/26	9/01/26	9/01/26	9/01/26	9/01/26	9/01/26	Dry	17/01/26	17/01/26	13/01/26	13/01/26	13/01/26	13/01/26	13/01/26	13/01/26	24/01/26	24/01/26	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	17/1/2026	Dry	17/1/2026	3/01/2026	Dry	Dry	3/01/26	Dry	Dry
pH	-	-	6.5-8	8.31	8.17	8.13	8.27	8.36	8.27	8.33	8.58	Dry	6.38	6.63	7.42	7.29	7.35	7.84	7.56	6.35	6.57	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	7.62	Dry	6.17	8.91	Dry	Dry	8.38	Dry	Dry
Electrical Conductivity	µS/cm	-	30-350	155	150	172	157	156	154	156	155	Dry	86	46	39	31	29	41	38	48	60	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	394	Dry	921	2,120.00	Dry	Dry	1870	Dry	Dry
Oxidation Reduction Potential	mV	-	No Water Quality Objective Value	184	192	194	193	187	191	192	180	Dry	176	148	192	195	197	173	182	178	206	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	82	Dry	198	66	Dry	Dry	103	Dry	Dry
Temperature	°C	-	No Water Quality Objective Value	21.36	21.07	24.42	24.39	21.61	22.52	24.26	29.88	Dry	11.18	11.21	15.63	15.52	19.75	14.49	14.53	18.49	22.99	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	14.12	Dry	11.41	23.01	Dry	Dry	25.93	Dry	Dry
Dissolved Oxygen	% saturation	-	90-110	88.3	77.8	64	80.4	81.6	75	67.6	100.9	Dry	87.8	46.8	74.8	63.7	72.9	90.1	78.7	80.3	65.7	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	70.1	Dry	70.1	118.6	Dry	Dry	66.8	Dry	Dry
Turbidity	NTU	-	2-25	4.7	0.8	1.14	0.85	2.6	0.74	0.67	0.4	Dry	10.2	1.7	1.97	0.7	22.1	0.4	1.68	11.2	70.9	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	38.4	Dry	146	28.2	Dry	Dry	1.6	Dry	Dry
Laboratory analytes																																								
TSS	mg/L	5	No Water Quality Objective Value	<5	<5	<5	<5	<5	<5	<5	<5	12	<5	<5	<5	<5	<5	<5	<5	24	13	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	21	Dry	30	<5	Dry	Dry	20	Dry	Dry
Hardness as CaCO3	mg/L	1	No Water Quality Objective Value	80	72	80	80	80	77	80	71	16	16	13	9	9	13	13	13	17	17	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	128	Dry	211	518	Dry	Dry	556	Dry	Dry
Nutrients																																								
Ammonia as N	µg/L	10	13	<10	<10	<10	<10	<10	<10	<10	<10	<10	20	<10	<10	30	<10	<10	60	60	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	2,190	Dry	60	40	Dry	Dry	10	Dry	Dry
Nitrite + Nitrate as N (NOx)	µg/L	10	15	30	<10	90	<10	<10	<10	10	<10	10	10	<10	<10	<10	<10	<10	20	10	20	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	9,220	Dry	18,500	78,800	Dry	Dry	<10	Dry	Dry
Kjeldahl Nitrogen Total	µg/L	100	No Water Quality Objective Value	300	100	<100	<100	600	<100	<100	<100	100	<100	<100	<100	200	200	100	200	800	800	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	2,700	Dry	4,000	7,200	Dry	Dry	200	Dry	Dry
Nitrogen (Total)	µg/L	100	250	300	100	<100	<100	600	<100	<100	<100	100	<100	<100	<100	200	200	100	200	800	800	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	11,900	Dry	22,500	86,000	Dry	Dry	200	Dry	Dry
Reactive Phosphorus	µg/L	10	15	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	<10	Dry	<10	20	Dry	Dry	10	Dry	Dry
Phosphorus (Total)	µg/L	10		<10	10	10	<10	20	<10	<10	<10	30	20	20	20	10	<10	<10	70	30	60	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	40	Dry	160	30	Dry	Dry	<10	Dry	Dry
Inorganics																																								
Cyanide Total	µg/L	4	0.0004	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	<4	Dry	<4	4	Dry	Dry	<4	Dry	Dry
Hydrocarbons																																								
Oil and Grease	mg/L	1		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	<1.0	Dry	<1.0	<1.0	Dry	Dry	<1.0	Dry	Dry
Metals																																								
Aluminium (total)	µg/L	5	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aluminium (dissolved)	µg/L	-	27	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	17	18	37	14	16	10	32	25	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	8	Dry	<5	<5	Dry	Dry	<5	Dry	Dry
Arsenic (total)	µg/L	0.2	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic (dissolved)	µg/L	-	5	0.7	0.5	0.7	0.7	0.7	0.7	0.7	0.8	<0.2	<0.2	<0.2	<0.2	0.3	0.2	0.3	0.3	0.6	0.6	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	4.4	Dry	3.5	2.7	Dry	Dry	1.8	Dry	Dry
Chromium (III+VI) (total)	µg/L	0.2	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium (III+VI) (dissolved)	µg/L	-	0.01	<0.2	<0.2	<0.2	<0.2	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	<0.2	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	2.8	Dry	2.3	1.4	Dry	Dry	0.6	Dry	Dry
Copper (total)	µg/L	0.5	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper (dissolved)	µg/L	-	1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	0.5	Dry	1.1	0.5	Dry	Dry	<0.5	Dry	Dry
Iron (total)	µg/L	2	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron (dissolved)	µg/L	-	300	7	28	15	11	6	8	8	10	43	19	52	39	256	88	107	161	366	303	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	<2	Dry	<2	3	Dry	Dry	<2	Dry	Dry
Lead (total)	µg/L	0.1	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead (dissolved)	µg/L	-	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	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	<0.1	Dry	<0.1	<0.1	Dry	Dry	<0.1	Dry	Dry
Manganese (total)	µg/L	0.5	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese (dissolved)	µg/L	-	1,200	3.9	4.4	2	2.7	1.1	1	1.7	2.2	5.9	2.3	2.2	1.9	1.8	3.6	3.9	69	1.2	1	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	<0.5	Dry	12.4	0.8	Dry	Dry	<0.5	Dry	Dry
Nickel (total)	µg/L	0.5	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel (dissolved)	µg/L	-	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	<0.5	<0.5	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	<0.5	Dry	2.1	1.9	Dry	Dry	6	Dry	Dry
Silver (total)	µg/L	0.01	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver (dissolved)	µg/L	-	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	<0.01	Dry	<0.01	<0.01	Dry	Dry	<0.01	Dry	Dry
Zinc (total)	µg/L	1	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc (dissolved)	µg/L	-	2.4	<1	<1	<1	<1	<1	<1	<1	<1	<1	2	<1	<1	<1	<1	<1	<1	2	<1	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	<1	Dry	<1	<1	Dry	Dry	<1	Dry	Dry

snowy 2.0

Snowy Hydro 2.0 Main Works

Monthly EPL Sampling: 01-31 January 2026 - Discharge Water

Analyte	Unit	Limit of Reporting	Water Quality Objective Value*	EPL 41	EPL 50
Flow Rate				14/1/2026	26/1/2026
Inflow[a]	ML/day	-	-	-	-
Outflow[a]	ML/day	-	4.32 (EPL 43 / 50)	-	-
Field					
pH	pH Unit	-	6.5-8.5	8.26	7.36
Electrical Conductivity	µS/cm	-	700 (EPL 41) / 200 (EPL 50)	28	111.9
Oxidation Reduction Potential	mV	-	No Water Quality Objective Value	136	117.9
Temperature	°C	-	15	25.73	20.7
Dissolved Oxygen	% saturation	-	No Water Quality Objective Value	94.3	86.8
Turbidity	NTU	-	<25	1.1	0.56
Laboratory analytes					
Total suspended solids	mg/L	5	5/10	<5	<5
Hardness as $CaCO_3$ (filtered)	mg/L	1	No Water Quality Objective Value	<1	<1
Nutrients					
Ammonia as N	µg/L	10	1000/2000^	<10	80
Nitrite + Nitrate as N (NOx)	µg/L	10	No Water Quality Objective Value	80	480
Kjeldahl Nitrogen Total	µg/L	100	No Water Quality Objective Value	<100	400
Nitrogen (Total)	µg/L	100	1500/3000^	<100	900
Reactive Phosphorus	µg/L	1	No Water Quality Objective Value	<10	<10
Phosphorus (Total)	µg/L	10	300/500^	<10	<10
Inorganics					
Cyanide Total	µg/L	4	No Water Quality Objective Value	<4	<4
Hydrocarbons					
Oil and Grease	mg/L	1	2/5^	<1.0	<1.0
Metals					
Aluminium (dissolved)	µg/L	5	55	<5	<5
Arsenic (dissolved)	µg/L	0.2	13	<0.2	0.2
Chromium (III+VI) (dissolved)	µg/L	0.2	1	<0.2	0.8
Copper (dissolved)	µg/L	0.5	14	<0.5	<0.5
Iron (dissolved)	µg/L	2	300	<2	<2
Lead (dissolved)	µg/L	0.1	3.4	<0.1	<0.1
Manganese (dissolved)	µg/L	0.5	1,900	<0.5	<0.5
Nickel (dissolved)	µg/L	0.5	11	<0.5	<0.5
Silver (dissolved)	µg/L	0.01	0.05	<0.01	<0.01
Zinc (dissolved)	µg/L	1	8	<1	<1
Biological					
Faecal Coliforms	CFU/100mL	1	10/100^	<1	<1
Biological Oxygen Demand	mg/L	2	5	<2	<2

snowy 2.0

Snowy Hydro 2.0 Main Works
Monthly EPL Sampling: 01-31 January 2026 - Volumes

Date	EPL 43 *	EPL 50 ^
	Discharge volume (Megalitres)	
1/01/2026	-	0.18
2/01/2026	0.45	-
3/01/2026	0.43	-
4/01/2026	0.37	0.53
5/01/2026	0.24	-
6/01/2026	-	0.54
7/01/2026	0.29	-
8/01/2026	-	0.36
9/01/2026	-	-
10/01/2026	-	-
11/01/2026	-	-
12/01/2026	-	0.18
13/01/2026	-	0.28
14/01/2026	-	0.56
15/01/2026	-	0.19
16/01/2026	-	-
17/01/2026	0.30	0.30
18/01/2026	-	0.55
19/01/2026	-	0.39
20/01/2026	-	0.35
21/01/2026	-	0.31
22/01/2026	-	0.29
23/01/2026	-	0.19
24/01/2026	-	-
25/01/2026	-	0.28
26/01/2026	-	0.14
27/01/2026	-	-
28/01/2026	-	-
29/01/2026	-	-
30/01/2026	-	0.12
31/01/2026	-	-

\- 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.

EPL 21266 In Situ Water Quality Measurements

EPL Monthly In-Situ Monitoring February 2026

Table 1 - Surface Water Quality Data
River and Minor Watercourses

Water Quality Objectives							
Temp (°C)	DO (%)	DO (mg/L)	EC (µS/cm)	TDS (mg/L)	pH	Redox (mV)	Turbidity (NTU)
-	90 - 110	-	30 - 350	-	6.5 - 8.0	-	2 - 25

Date and Time	EPL Site ID	Location Description	Temp (°C)	DO (%)	DO (mg/L)	EC (µS/cm)	TDS (mg/L)	pH	Redox (mV)	Turbidity (NTU)	Field Comments	Context
17/02/2026 12:44	EPL5	Yarrangobilly River, upstream of the exploratory tunnel and construction pad	23.36	83.4	7.1	172	112	8.89	168	0	Clear water, representative of 0 turbidity	Low DO% and high pH is within the baseline water quality results summary in the surface water management plan, refering to frequent exceedances during the warmer months. This is an upgradient location and is not considered to be affected by the project. Turbidity has been mentioned in the field notes.
17/02/2026 12:12	EPL6	Wallaces Creek, upstream of Yarrangobilly River and Wallaces Creek confluence	21.59	84.8	7.47	187	121	8.92	19	0	Turbidity is representative of water conditions. No odor. Hot dry.	Elevated pH and low DO% is within the range of upstream locations. Turbidity is mentioned in the field notes.
17/02/2026 11:12	EPL8	Yarrangobilly River, downstream of Lick Hole Gully	20.15	81.5	7.39	199	129	8.92	195	6	clean water, sulphuric acid smell when stepping on mud. Hot sunny day, low flow.	DO% and pH are considered to be representative of the upgradient locations.
17/02/2026 10:56	EPL9	Yarrangobilly River, downstream of the accommodation camp and upstream of Talbingo Reservoir	19.73	85.7	7.83	204	132	8.88	175	17.9	Very clear water, low flow, hot day, no rain.	Concentrations outside of WQO's are closely inline with upstream locations and not representative of construction influence.
17/02/2026 12:27	EPL12	Yarrangobilly River, immediately downstream of portal pad	22.58	84.3	7.29	173	112	8.88	171	0.1	Turbidity is representative of conditions of stream. No odor. Low flow. Sunny dry weather.	Low DO (%) and elevated pH is representative of upstream locations and seasonal temperature increases, this aligns with the baseline water quality results summary in the surface water management plan.
17/02/2026 11:54	EPL14	Yarrangobilly River, downstream of road construction areas	21.79	83.6	7.34	174	113	8.91	179	0.5	Very very low flow. Taken from the stream not the rock bank - water trickling near bank. Hot sunny day. No odor.	Low DO (%) and elevated pH is representative of seasonal temperature increases and is within the baseline water quality results summary in the surface water management plan.
17/02/2026 11:33	EPL15	Yarrangobilly River, downstream of road construction areas	21.64	80.2	7.06	171	111	8.91	190	0	Turbidity reading is representative of the water quality. No odor, hot sunny day.	Low DO (%) and elevated pH is representative of seasonal temperature increases and is within the baseline water quality results summary in the surface water management plan. Turbidity is mentioned in the field notes.
18/02/2026 10:42	EPL16	Yarrangobilly River, downstream of road construction areas	20.95	114.4	10.2	174	113	8.13	181	0	Clear water, low level, overcasts.	Elevated pH is representative of seasonal temperature increases and is within the baseline water quality results summary in the surface water management.
9/02/2026 9:57	EPL24	Yarrangobilly River tributary (Watercourse 2), directly downstream of road	-	-	-	-	-	-	-	-	Sample not taken due to low water levels.	No sample taken due to dry conditions
6/02/2026 10:46	EPL26	Eucumbene River downstream of Marica Road	17.65	71.5	6.82	40	26	8.24	159	0.2	Clear day. No recent rain. Water level low. Slow flow. Signs of hard hooved animals at sample point. No odour. No sheen visible.	The recorded concentrations are representative of the upgradient environmental conditions consistently observed within previous monitoring rounds at this location due to the lack of construction activities in this area. This location has been observed to have frequent activity by hard hooved animals.
6/02/2026 10:55	EPL27	Eucumbene River upstream of Marica Road	16.8	50.8	4.93	35	23	7.75	182	0.6	Clear day. No recent rain. QA's taken here. Signs of hardhooved animals near sample point.	High altitude and temperatures could contribute to DO% being low in this upstream location unaffected by project activities.
7/02/2026 9:00	EPL30	Kellys Plain Creek, downstream of accommodation camp and laydown areas	11.18	60.3	6.62	35	23	8.05	184	3.7	Clear day. No recent rain. Water clear. Low flow and level. No odour or sheen.	Low DO (%) and slightly raised pH is representative of seasonal increase temperature and is within the baseline water quality results summary in the surface water management plan.
7/02/2026 9:12	EPL31	Kellys Plain Creek, upstream of accommodation camp and laydown areas	11.01	55.7	6.14	28	18	7.94	187	2.6	Clear day. No recent rain. Signs of hard hooved animal activity at sample point. Water clear. Low flow and level.	Low EC and DO (%) is representative of the environmental conditions for this location being upstream of construction activities.
7/02/2026 8:35	EPL33	Murrumbidgee River, downstream of Tantangara reservoir outlet	17.39	68.7	6.58	26	17	7.03	239	25.8	Clear day. No recent rain. Water clear. Water flowing. Discharging at time of sampling.	Low EC and DO (%) is representative of the environmental conditions for this location, it is slightly greater than the naturally occuring streams in the surrounding area, though that could be attributed to the outlet discharging at time of sampling, this could also contribute to the marginally high turbidity.
7/02/2026 7:11	EPL34	Nungar Creek, upstream of Tantangara Road	10.46	60	6.7	41	27	8.27	158	3.8	Clear day. No recent rain. Water clear. Low flow and level.	Low DO (%) and elevated pH is representative of seasonal temperature increases and is within the baseline water quality results summary in the surface water management plan.

EPL 21266 In Situ Water Quality Measurements

EPL Monthly In-Situ Monitoring February 2026

7/02/2026 7:19	EPL35	Nungar Creek, downstream of Tantangara Road	10.39	48.6	5.43	36.0	23	7.93	176	3.7	Clear day. No recent rain. No odour or sheen. Water clear. Low flow and level.	Low DO (%) is representative of seasonal temperature increases and is within the baseline water quality results summary in the surface water management plan.
21/02/2026 10:09	EPL 36	Camerons Creek, upstream of works in Rock Forest	16.02	53.2	5.25	45	29	6.98	190	11.1	Clear day. No recent rain. Low water level. No flow.	Low DO% is representative of the environmental conditions at this upstream location. All other parameters are within WQO limits.
21/02/2026 11:51	EPL 37	Camerons Creek, downstream of works in Rock Forest	23.88	62.3	5.26	48	31	7.13	170	53.7	Clear day. No recent rain. Water level low. No flow. QA's taken here.	Low DO% is considered representative of the environmental conditions for this location.
21/02/2026 15:14	EPL52	GF01 leachate basin	29.43	69.8	5.3	1,460.00	932	9.26	70	24.3	Green colour, no sheen or odour, no recent rainfall, slightly turbid	Leachate storage basin.
-	EPL53	GF01 surface water upstream east	-	-	-	-	-	-	-	-	-	No sample taken due to dry conditions
-	EPL54	GF01 surface water upstream west	-	-	-	-	-	-	-	-	-	No sample taken due to dry conditions
-	EPL55	GF01 surface water downstream	-	-	-	-	-	-	-	-	-	No sample taken due to dry conditions
-	EPL67	Nungar Creek surface water downstream west from Tantangara emplacement area	-	-	-	-	-	-	-	-	-	No sample taken due to dry conditions
-	EPL71	Surface water downstream of Marica emplacement	-	-	-	-	-	-	-	-	-	No sample taken due to dry conditions
21/02/2026 15:18	EPL84	FB Basin	25.57	91.3	7.44	1,060.00	696	8.82	116	831	Very turbid water, no recent rain no foam sheen or odour. Medium capacity.	Leachate storage basin.
21/02/2026 15:31	EPL85	MY07 Basin	27.23	78.5	6.21	1,160.00	742	9.18	1,160.00	1,000.00	No recent rain very turbid water (>1000 Ntu), no foam sheen or odour. Low capacity	Leachate storage basin.
18/02/2026 10:09	EPL86	LHG01 Basin	21.65	40.5	3.55	1,040.00	665	8.41	27	346	Turbid water Basin 10% full No odour No rainfall in last 24 hrs	Leachate storage basin.
-	EPL98	Rock blanket diversion monitoring under GF01 liner	-	-	-	-	-	-	-	-	-	No sample taken due to dry conditions
6/02/2026 13:17	EPL99	Marica Leachate Basin- Turkey's Nest	21.88	63.7	5.57	261	170	8.77	113	214	Clear day. No recent rain.	No sample taken due to dry conditions
6/02/2026 13:39	EPL100	Marica Lower Leachate Basin US5 Shaft	24.76	66.2	5.48	826	529	8.74	129	27.1	Clear day. No recent rain. Water green colour.	No sample taken due to dry conditions
6/02/2026 13:29	EPL101	Marica Leachate Basin Spoil Pad	22.96	66.1	5.66	812	520	9.16	107	40.5	Clear day. No recent rain. Water green colour. Hydroseed on edge of basin liner. Organic matter floating on surface.	No sample taken due to dry conditions
7/02/2026 8:22	EPL106	Ravine Bay Leachate basin 1	20.84	59.7	5.3	2,270.00	1,450.00	8.73	29	45.4	QA_LOG_1 collected, clear, greenish colour, algae odour present, some bubbles and debris, 60% full, sunny day, no recent rainfall.	Leachate storage basin.
-	EPL110	Upstream monitoring of Ravine Bay emplacement area	-	-	-	-	-	-	-	-	-	No sample taken due to dry conditions
7/02/2026 10:23	EPL118	Ravine Bay Leachate basin 2	22.55	63.7	5.45	3,540.00	2,260.00	8.55	106	2.3	Green, clear, slight algae odour, sunny, no recent rainfall	Leachate storage basin.
7/02/2026 10:09	EPL119	Ravine Bay Leachate basin 3	21.85	52.1	4.54	2,180.00	1,400.00	8.23	94	30.1	Green colour, no odour or sheen, sunny, clear	Leachate storage basin.
-	EPL120	Ravine Bay Leachate basin 4	-	-	-	-	-	-	-	-	-	No sample taken due to dry conditions
-	EPL122	GF01 Drainage Line (Formerly EPL 55b)	-	-	-	-	-	-	-	-	-	No sample taken due to dry conditions

EPL 21266 In Situ Water Quality Measurements

EPL Monthly In-Situ Monitoring February 2026

Table 2 - Reservoir Water Quality Data

Talbingo and Tantangara Reservoirs

	Water Quality Objectives							
Temp (°C)	DO (%)	DO (mg/L)	EC (µS/cm)	TDS (mg/L)	pH	Redox (mV)	Turbidity (NTU)	
-	90 - 110	-	20 - 30	-	6.5 - 8.0	-	1 - 20	

Date and Time	EPL Site ID	Location Description	Temp (°C)	DO (%)	DO (mg/L)	EC (µS/cm)	TDS (mg/L)	pH	Redox (mV)	Turbidity (NTU)	Field Comments	Context
1/02/2026 11:16	EPL10	Talbingo Reservoir, downstream of road works and upstream of water intake point	26.43	63.9	5.14	97	63	7.93	174	1.35	Overcast day. Recent rain event >20mm. Turb measured with Hach meter.	Low DO % and elevated EC is representative of the environmental conditions at this upstream of discharge point location. Low Turbidity is also representative of stream and reservoir conditions historically.
1/02/2026 9:24	EPL11	Talbingo Reservoir, downstream of outlet	25.98	63	5.11	76	50	8.12	150	1.5	Overcast day. Recent rain event >20mm.	Slightly elevated EC, pH and low DO (%) could be attributed to seasonal conditions as the reservoir temperature increases as observed by previous monitoring rounds.
8/02/2026 8:48	EPL28	Tantangara Reservoir, upstream of works in the mouth of the Murrumbidgee River	18.07	73.6	6.96	31	20	7.07	238	7.1	Cloudy day, clear water, no odour, the water level in the reservoir has been found very low	Low DO (%) could be attributed to the temperature increase at the time of the sampling as seen in previous monitoring rounds. This upstream location is not affected by construction works.
8/02/2026 9:41	EPL29	Tantangara Reservoir, downstream of works area and upstream of lower Murrumbidgee River	19.51	63.2	5.8	26	17	7.91	211	6.3	Overcast day. Light shower overnight. Light breeze. QA's taken here.	Low DO (%) could be attributed increased temperatures at the time of the sampling as seen in previous monitoring rounds.
8/02/2026 9:35	EPL32	Tantangara Reservoir, Tantangara Intake. Downstream of construction works	19.08	67	6.21	26	17	7.6	221	5.2	Overcast day. Light overnight rain. Light breeze.	Low DO (%) is reflective of upstream locations (EPL39 and EPL40).
8/02/2026 9:16	EPL38	Tantangara Reservoir, variable location dependant on tide and reservoir levels. Between the emplacement area and the ancillary facilities for emplacement activities	18.67	65.4	6.11	27	17	7.18	234	3.1	Overcast day. Light rain overnight. Slight breeze.	Low DO (%) is reflective of upstream locations (EPL39 and EPL40).
7/02/2026 11:03	EPL39	Confluence of Nungar Creek and Tantangara Reservoir, variable location dependent on tide and reservoir levels. Upstream of Tantangara construction works	17.95	56.6	5.36	27	18	7.18	200	6.8	Clear day. No re ent rain. Water level low. Signs of hard hooved animals at sample point. QA's taken here.	Low DO% is within the baseline water quality results summary in the surface water management plan, referring to frequent exceedances during the warmer months. This is an upgradient location and is not considered to be affected by the project.
8/02/2026 8:55	EPL40	Confluence of the upper Murrumbidgee River and Tantangara Reservoir, variable location dependent on tide and reservoir levels. Upstream of works	18.27	55.3	5.21	30	20	7.37	229	4.3	Rainy day, clear water, no odour	This upstream location has had no construction works impacting the area. Low DO% is within the baseline water water quality results summary in the surface water management plan.
8/02/2026 9:52	EPL 51	Tantangara Reservoir, downstream of Tantangara STP/PWTP diffuser outlet	19.24	66	6.09	26	17	7.88	215	6.1	Overcast day. Light rain overnight. Light breeze.	Low DO (%) is likely attributed to the temperature increase at the time of the sampling as seen in previous monitoring rounds.
1/02/2026 9:00	EPL107	Upstream monitoring of Ravine Bay emplacement area within Yarrangobilly River	25.12	83.4	6.87	48	31	8.29	129	0.96	Overcast day. Recent rain event >20mm. Turbity measured with Hach meter.	The elevation in EC is consistent with the historical data for this location.
1/02/2026 8:50	EPL108	Monitoring of Ravine Bay emplacement area (center of PSE) within Yarrangobilly River	24.8	62.4	5.17	42	27.00	8.34	116	10.1	Overcast day. Recent rain event >20mm.	The minor elevation in EC and low DO% is consistent with the historical data for this location. Slightly elevated pH is consistent with the upstream location.
1/02/2026 8:41	EPL109	Upstream monitoring of Ravine Bay emplacement area within Yarrangobilly River	24.27	73.2	6.13	45	29	8.48	90	28.8	Overcast day. Recent rain event >20mm. QA,s taken here.	Slightly elevated pH and EC are consistent with the upstream location.

Table 3 - Treated Water Quality Data

Talbingo

	Water Quality Objectives							
Temp (°C)	DO (%)	DO (mg/L)	EC (µS/cm)	TDS (mg/L)	pH	Redox (mV)	Turbidity (NTU)	
			700		6.5 - 8.5		25	

Date and Time	EPL Site ID	Location Description	Temp (°C)	DO (%)	DO (mg/L)	EC (µS/cm)	TDS (mg/L)	pH	Redox (mV)	Turbidity (NTU)	Field Comments	Context
4/02/2026 9:53	EPL41	Lobs Hole STP/PWTP Final Effluent Quality Monitoring Point. Downstream of final treatment, prior to discharge to Talbingo Reservoir.	22.41	81.7	7.09	3	2	7.55	207	16.1	QA_LOB_2 and QA_LOB _3 taken here, clear, no odour, no sheen or foam observed,	All readings are within WQO limits.

Table 4 - Treated Water Quality Data

Tantangara

	Water Quality Objectives							
Temp (°C)	DO (%)	DO (mg/L)	EC (µS/cm)	TDS (mg/L)	pH	Redox (mV)	Turbidity (NTU)	
-	-	-	168	-	6.5 - 8.5	-	25	

Date and Time	EPL Site ID	Location Description	Temp (°C)	DO (%)	DO (mg/L)	EC (µS/cm)	TDS (mg/L)	pH	Redox (mV)	Turbidity (NTU)	Field Comments	Context
8/02/2026 7:31	EPL50	Tantangara STP/PWTP Final Effluent Quality Monitoring Point. Downstream of final treatment, prior to discharge to Tantangara Reservoir.	19.31	69.4	6.4	93	61	6.82	239	0.9	Overcast day. Light rain overnight. Sample area clean and tidy.	All readings are within WQO limits.

EPL 21266 In Situ Water Quality Measurements

EPL Monthly In-Situ Monitoring February 2026

Table 5 - Groundwater Quality Data
GF01 Surface Water and Groundwater

Water Quality Objectives							
Temp (°C)	DO (%)	DO (mg/L)	EC (µS/cm)	TDS (mg/L)	pH	Redox (mV)	Turbidity (NTU)
-	90 - 110	-	30 - 350	-	6.5 - 8.0	-	2 -25

Date and Time	EPL Site ID	Location Description	Temp (°C)	DO (%)	DO (mg/L)	EC (µS/cm)	TDS (mg/L)	pH	Redox (mV)	Turbidity (NTU)	Field Comments	Context
24/02/2026 11:20	EPL1	Wallace Creek Bridge, west of ECVT portal	-	-	-	-	-	-	-	-	Sample not take due water and over sample point.	Low DO% and pH are within the baseline water quality summary, as is higher EC. These results are similar to those collected in February 2025.
24/02/2026 11:08	EPL2	Wallace Creek Bridge, West of ECVT portal	18.97	18.3	1.7	483	314	6.45	9	53.9	Clear day. Recent rain event >30mm.	Location not sampled due to surface water inundation.
24/02/2026 11:27	EPL4	Lobs Hole Portal Access, west of MAT portal	-	-	-	-	-	-	-	-	Sample not take due water and over sample point.	Location not sampled due to surface water inundation.
24/02/2026 11:34	EPL25	Monitoring wel, downslope of MAT portal	18.44	35	3.28	456	296	7.03	123	11.8	Clear day. Recent rain event <30mm. Area around monument wet.	Low DO% and pH are within the baseline water quality summary, as is higher EC. These results are similar to those collected in February 2025.
3/02/2026 14:28	EPL56	GF01 groundwater upstream east	18.97	95.7	8.87	234	152	8.62	154	9.1	Clear day. No recent rain. Bore no longer representative of an upgradient location.	Slightly elevated pH is consistent with previous sampling rounds.
3/02/2026 14:45	EPL57	GF01 groundwater upstream west	22.09	79.5	6.93	244	158	8.68	161	35.6	Clear day. No recent rain. Location no longer representaive of an upgradient location.	Slightly low DO (%) and higher pH is consistent with the historical data for this upstream location.
11/02/2026 11:15	EPL58	GF01 groundwater downstream	19.52	101	9.25	862	552	6.4	237	144	Clear day. No recent rain. Pump not working water extracted with hose.	EC concentrations being above the WQO's is within the historical conditions recorded in previous monitoring rounds, as is the slightly lower pH.
14/02/2026 8:18	EPL68	Tantangara groundwater downstream West	12.18	78.9	8.47	21	13	7.38	193	72	Bore pumped, clear flowing water. Cloudy foggy day with no wind. No odour or sheen.	Low EC and DO % is consistent with the historical data for this location. This is in line with seasonal changes.
7/02/2026 11:41	EPL69	Tantangara groundwater downstream East	15.88	31	3.07	39	25	6.01	253	296	Clear day. No recent rain. Water yellowy colour.	Low pH and DO % is generally consistent with the historical data for this location. This falls in line with current seasonal changes.
7/02/2026 10:02	EPL70	Tantangara groundwater upstream	14.56	64.8	6.59	80	52	6.73	208	71	Clear day. No recent rain. Hydroseed sprayed over sample area. Sediment in base of sleeve. Orangy colour.	This location is upgradient of works and therefore representative of background conditions.
22/02/2026 8:11	EPL 72	Marica groundwater upstream	15	33	3.32	73	48	6.47	209	12.7	Sunny day, cloudy. Warm. Sleeve clear.	This location is upgradient of works and therefore representative of background conditions.
14/02/2026 14:54	EPL80	Lick Hole Gully groundwater upstream	19.45	0.9	0.08	880	563	6.88	41	48.8	Water sample turbid No odour Brown sediments observed underneath the hydrasleeve	This location is upgradient of works and therefore representative of background conditions.
18/02/2026 9:27	EPL81	Lick Hole Gully groundwater downstream	19.1	20.6	1.9	845	541	6.85	-33	252	Water sample clear Odour present. Like acid. No rainfall in last 24 hrs	Elevated EC and low DO % align with conditions upgradient of works.
18/02/2026 10:20	EPL82	Main Yard groundwater upstream	19.55	2	0.18	2,770.00	1,770.00	6.8	-11	34	Water sample clear Odour present. Smells like rotten eggs No rainfall in last 24 hrs	Extremly elevated EC is historically at these levels as is low DO %.
18/02/2026 9:54	EPL83	Main Yard groundwater downstream	18.36	0	0	565	361	6.29	7	0	Water sample clear No odour Possible error with Turbidity, and DO	Dissolved Oxygen is typically low in this well as seen through historic monitoring rounds, EC is also sitting within previous concentrations. Turbidity is mentioned in the field notes.
21/02/2026 15:00	EPL87	Main Yard groundwater downstream	20.11	33.5	3.03	831	517	6.64	165	6.2	No recent rain, relatively clear water no odour sheen or foam no nearby works	Elevated EC and low DO % is consistent with previous sampling conditions for this location.
18/02/2026 10:50	EPL88	Main Yard groundwater downstream	18.85	4.4	0.41	908	581	6.81	-44	0	Water sample clear No odour No rainfall in last 24 hrs Possible error with turbidity	Elevated EC and low DO % is consistent with background conditions for this location. Turbidity is mentioned in the field notes.
18/02/2026 9:05	EPL89	Lick Hole Gully groundwater downstream	18.27	9.3	87	407	264	7.12	177	23.7	Water sample slightly turbid No odour	EC concentrations being above the WQO's is within the historical conditions recorded in previous monitoring rounds, as is the slightly lower DO %.
9/02/2026 10:37	EPL 90	GF01 groundwater downstream	17.37	33.1	3.17	49	32	6.06	225	0.83	Clear humid day. QA's taken here. Turbity measured with Hach.	Low DO % and pH is generally consistent with the historical data for this location.
3/02/2026 13:54	EPL 91	GF01 groundwater downstream	19.82	96.3	8.78	250	163	7.13	164	3.3	Overcast day. No recent rain last 24hrs. Light sulphuric smell. Water clear.	All readings are within WQO limits.
3/02/2026 15:03	EPL 92	GF01 groundwater downstream	19.99	59.9	5.45	131	85	7.3	166	137	Clear day. No recent rain.	Low DO % is consistent with this location's historical data.
3/02/2026 15:14	EPL 93	GF01 groundwater downstream	18.17	99	9.33	209	136	7.41	183	542	Clear day. No recent rain.	High turbidity aligns with historical data for this location.
20/02/2026 14:38	EPL 94	GF01 groundwater downstream	17.54	22.5	2.15	162	105	6.83	-1	74.6	Clear day. No recent rain. Water yellowy colour.	Low DO aligns with historical data and the upstream location. Turbity is within the range of previous sample rounds in this location.
5/02/2026 13:18	EPL 95	GF01 groundwater downstream	21.6	36	3.16	748	479	6.4	272	0.9	Clear day. No recent rain. Water clear. Water extracted using electric bore pump.	Elevated EC and low pH and DO % have been consistent at this location for this current seasonal range.
3/02/2026 15:32	EPL 96	GF01 groundwater downstream	17.75	94.4	8.97	439	285	6.67	147	1,000.00	Clear day. No recent rain. Water orange colour.	Elevated EC and high turbidity is consistent with historical ranges for this location.

EPL 21266 In Situ Water Quality Measurements

EPL Monthly In-Situ Monitoring February 2026

6/02/2026 8:29	EPL 97	GF01 groundwater downstream	15.31	16.8	1.68	475	308	6.65	214	20.3	Clear day. No recent rain. Water clear. No odour.	Elevated EC and low DO % is consistent at this location for this current seasonal range.
22/02/2026 8:27	EPL103	Upstream groundwater monitoring west of the Tantangara emplacement area	14.16	50.9	5.22	41	27	6.11	254	15.6	Clear day. No recent rain. Water clear.	This location is upgradient of works and therefore low DO % and pH is considered representative of background conditions.
7/02/2026 11:57	EPL104	Downslope groundwater monitoring east of the Tantangara emplacement area	14.98	37.3	3.76	46	30	6.13	239	23.9	Clear day. No recent rain. No odour. Water clear.	Low DO aligns with results upgradient of PSE. The pH concentration is slightly outside of the WQO's however consistent with low levels throughout Tantangara PSE area.
14/02/2026 8:38	EPL105	Downslope groundwater monitoring east of the Tantangara emplacement area	13.18	84.5	8.87	90	59	7.33	187	59.3	Bore pump, clear flowing water. Cloudy foggy day with no wind. No odour or sheen. QA-1 completed here.	Low DO % and pH are consistent with historical data and for this location.
13/02/2026 12:17	EPL113	Upstream east monitoring of Ravine Bay emplacement area	17.22	7.6	73	119	77	6.24	117	40.9	Sunny day, no odour or sheen, clear	This is an upgradient location and not affected by project activities.
20/02/2026 9:39	EPL114	Upstream west monitoring of Ravine Bay emplacement area	18.42	90	8.44	120	78	6.34	206	70.9	Clear day. No recent rain.	This location is upgradient of works and therefore representative of background conditions.
20/02/2026 10:00	EPL115	Downstream east monitoring of Ravine Bay emplacement area	17.96	113.6	10.75	313	204	6.93	195	49	Clear day. No recent rain. Hydromulch on and around monument.	Slightly elevated DO % is consistent with sampling rounds conducted during the warmer months.
7/02/2026 8:57	EPL116	Downstream west monitoring of Ravine Bay emplacement area	17.39	37.8	3.62	201	130	7.24	132	864.00	Turbid, only 50% full hydrosleeve, no odour, no recent rainfall, no sheen, not enough for sample	DO % is consistent with the upgradient location these results are similar in comparison to February 2025. Turbity is noted in the field notes and also the physio-chemical results.
7/02/2026 7:52	EPL117	Downstream monitoring of Ravine Bay emplacement area	13.68	1.4	0.14	145	94	6.77	-18	545	Clear, some sediment at bottom, end of sleeve used for horiba hence high turbidity, no odour, sunny day, no recent rainfall, no sheen	DO % is consistent with the upgradient location. Turbidity has been noted in the field notes.

Snowy 2.0 Environmental Protection License Water Quality Results

Monitoring Period	1 - 28 February 2026
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

SUMMARY	
Groundwater Water Quality Results:	February analytical results reported EC concentrations as greater than the WQO's within 17 of the 32 locations monitored, with the greatest observation understood to be reflective of the natural characteristics within Lick Hole Gully. With exception to EPL105, highly pronounced temperature variations are notable across the Project sites as higher temperatures recorded within Lobs Hole monitoring locations compared to the other sites. EPL114 reported the lowest DO% of 0.4% however the location is upgradient of Project works. Rainfall volumes recorded during the reporting period are anticipated to have influenced the elevated analytical results due to increased infiltration and vertical migration within Monitoring Zones such as GF01 and Ravine Bay.
Reservoir Water Quality Results:	Elevated temperatures are greatest within Talbingo Reservoir as Tantangara locations report typical temperatures as up to 6 degrees colder. is typically three begins to transition with the season. The elevated coliform results are typical for both water bodies during February, however this reporting period noted analytical consistency between all locations regarding nutrients.
Surface Water Quality Results:	Surface water results during this period reflect the warmer weather conditions recorded throughout the reporting period with exception given to the more alpine streamlines such as EPL31 and EPL32. Over 150 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.
Discharge Water Quality Results:	Discharge concentrations were within the adopted criteria.
Leachate Water Quality Results:	Leachate management containment systems are designed to control waters comprising elevated concentrations across the analytical suite.

Snowy Hydro 2.0 Main Works
Monthly EPL Sampling: 01-28 February 2026 - Groundwater

Analyte	Unit	Limit of Reporting	Water Quality Objectives	EPL1	EPL2	EPL4	EPL25	EPL56	EPL57	EPL58	EPL60	EPL68	EPL70	EPL72	EPL80	EPL81	EPL82	EPL83	EPL87	EPL88	EPL89	EPL 90	EPL 91	EPL92	EPL93	EPL94	EPL95	EPL96	EPL97	EPL103	EPL104	EPL105	EPL113	EPL114	EPL115	EPL116	EPL117
Physicochemical				-	24/02/2026	-	24/02/2026	3/02/26	3/02/24	11/02/26	14/02/26	7/02/26	7/02/26	14/02/26	16/02/26	18/02/26	18/02/26	18/02/26	21/02/26	18/02/26	18/02/26	9/02/26	3/02/26	3/02/24	3/02/26	20/02/26	5/02/26	3/02/26	6/02/26	22/02/26	7/02/26	14/02/26	13/02/26	20/02/26	20/02/26	7/02/26	7/02/26
pH	pH Unit		6.5-8	-	6.45	-	7.03	8.62	8.68	6.4	7.38	6.81	6.73	6.47	6.88	6.85	6.8	6.29	6.64	6.83	7.12	6.96	7.13	7.3	7.41	6.83	6.8	6.67	6.65	6.11	6.87	7.08	6.02	7.55	6.93	6.09	6.24
Electrical Conductivity	µS/cm	-	-	-	683	-	456	234	244	862	21	28	80	73	880	845	2,770.00	565	831	908	807	49	250	131	209	162	748	459	475	41	385	395	86	359	312	131	118
Oxidation Reduction Potential	mV	-	No Water Quality Objective Value	-	9	-	122	154	161	237	193	253	208	209	41	33	31	7	165	44	177	225	164	146	183	-1	272	147	214	254	185	196	256	135	193	28	117
Temperature	°C	-	No Water Quality Objective Value	-	18.07	-	18.44	18.97	22.99	19.52	12.18	15.88	14.56	15	19.45	19.1	19.55	18.36	20.11	18.85	18.27	17.37	19.82	19.99	18.17	17.64	21.6	17.75	15.31	14.16	16.3	21.17	16.19	22.46	17.96	17.43	17.22
Dissolved Oxygen	% saturation	-	80-110	-	18.3	-	35	95.7	79.5	101	78.9	31	64.8	53	0.9	20.6	2	0	33.5	4.4	0.3	13.1	96.3	53.9	88	20.5	36	34.4	16.8	10.9	19.2	20.6	75.2	0.4	113.6	106.4	7.6
Turbidity	NTU	-	2 - 25	-	13.9	-	11.8	9.1	35.6	144	72	296	75	12.7	48.8	252	34	0	6.2	0	23.7	0.83	3.3	137	562	74.6	0.9	1,030.00	20.3	15.6	3.7	10.7	35.9	2	40	3.5	40.9
Laboratory analytes																																					
TSS	mg/L	5	No Water Quality Objective Value	-	22	-	8	<5	6	210	174	330	16	63	31	217	67	<5	13	<5	82	<5	12	246	607	27	<5	2,240	43	<5	38	18	100	<5	86	2,210	259
Hardness as CaCO3	mg/L	1	No Water Quality Objective Value	-	185	-	199	122	117	343	<1	13	26	21	335	393	1,180	115	140	163	66	16	120	41	115	80	334	187	157	5	13	91	43	181	160	45	43
Nutrients																																					
Ammonia as N	µg/L	10	13	-	110	-	30	20	20	20	20	10	10	10	80	80	160	110	60	280	30	10	30	30	10	30	20	10	220	10	<10	20	<10	<10	40	90	20	70
Nitrite + Nitrate as N (NOx)	µg/L	10	15	-	230	-	310	110	1,060	44,400	840	150	770	530	<10	<10	<10	<10	<10	12,400	20	70	130	<10	30	<10	<10	38,600	26,300	170	550	350	2,340	90	40	<10	160	10
Kjeldahl Nitrogen Total	µg/L	100	No Water Quality Objective Value	-	300	-	300	<300	300	6,500	300	<500	<500	<500	100	200	400	200	600	600	<100	<100	100	<100	100	<100	3,700	7,700	<100	<100	<100	300	100	100	100	<100	<100
Nitrogen (Total)	µg/L	100	200	-	500	-	630	500	1,300	48,300	850	<500	850	530	100	200	400	200	12,900	600	<100	100	100	<100	100	<100	41,100	34,000	200	500	400	2,500	200	150	160	150	<100
Reactive Phosphorus	µg/L	1	15	-	<10	-	20	<10	10	<10	<10	<10	10	10	<10	<10	<10	70	<10	40	10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	10
Phosphorus (Total)	µg/L	10	20	-	70	-	30	<10	10	150	50	400	310	50	50	220	10	100	20	50	<10	10	<10	200	110	80	60	2,600	50	20	<10	<10	20	30	20	50	310
Pyrogenics																																					
Cyanide Total	µg/L	4	4	-	-	-	-	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Hydrocarbons																																					
Oil and Grease	mg/L	1	No Water Quality Objective Value	-	-	-	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Metals																																					
Aluminium (total)	µg/L	5	No Water Quality Objective Value	-	-	-	-	284	271	295	3,880	7,230	660	1,140	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aluminium (dissolved)	µg/L	5	27	-	<5	-	<5	<5	6	9	<5	<5	<5	5	<5	<5	<5	10	<5	8	<5	8	11	<5	<5	<5	<5	<5	151	<5	<5	<5	<5	<5	<5	<5	<5
Arsenic (total)	µg/L	0.2	No Water Quality Objective Value	-	-	-	-	<0.2	3.3	0.3	1.1	2.0	<0.2	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic (dissolved)	µg/L	0.2	0.8	-	0.4	-	0.4	<0.2	2.4	<0.2	<0.2	<0.2	1.2	<0.2	1.8	18.3	17.6	61.5	0.2	30.0	<0.2	<0.2	1.4	0.3	3.7	0.6	1.1	<0.2	0.3	<0.2	<0.2	<0.2	<0.2	<0.2	0.3	0.5	0.4
Chromium (III+VI) (total)	µg/L	0.2	No Water Quality Objective Value	-	-	-	-	0.9	1.1	0.8	7.6	8.4	0.6	6.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium (III+VI) (dissolved)	µg/L	0.2	0.81	-	<0.2	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	1.0	<0.2	<0.2	<0.2	2.4	<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	1.0	<0.2	0.4	<0.2	0.2	<0.2
Copper (total)	µg/L	0.5	No Water Quality Objective Value	-	-	-	-	24.7	85.5	30.2	6.2	54.6	36.8	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper (dissolved)	µg/L	0.5	1	-	137	-	198	2.1	43.2	30.3	<0.5	18.0	25.7	4	<0.5	<0.5	<0.5	0.9	2.1	<0.5	10.9	2.4	<0.5	<0.5	<0.5	<0.5	867	2.1	<0.5	8.6	3.2	<0.5	72.5	6.1	0.7	27.8	<0.5
Iron (total)	µg/L	2	No Water Quality Objective Value	-	-	-	-	152	330	312	4,390	7,350	852	1,350	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron (dissolved)	µg/L	2	300	-	8	-	<2	2	<2	8	<2	<2	<2	<2	<2	2,060	3,240	2480	<2	392	<2	3	650	14	202	5	<2	6	63	<2	<2	<2	5	<2	<2	<2	<2	<2
Lead (total)	µg/L	0.1	No Water Quality Objective Value	-	-	-	-	3	1.1	4.3	2.2	4	0.2	4.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead (dissolved)	µg/L	0.1	3.4	-	<0.1	-	<0.1	<0.1	<0.1	2.7	<0.1	<0.1	0.4	<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	0.8	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Manganese (total)	µg/L	0.5	No Water Quality Objective Value	-	-	-	-	70.3	118	76.4	67.2	361	11.4	55.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese (dissolved)	µg/L	0.5	1,200	-	101	-	804	2.3	76.3	87.6	2.4	5.2	4.6	8.5	280	366	455	353	43.4	269	7.9	2.8	724	41.6	153	299	390	445	446	1.7	3.0	6.5	24.8	1.3	224	15.2	529
Nickel (total)	µg/L	0.5	No Water Quality Objective Value	-	-	-	-	1.1	1.5	5.3	2.2	9.6	0.7	5.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel (dissolved)	µg/L	0.5	8	-	3	-	27.4	<0.5	<0.5	4.6	<0.5	0.8	1.7	0.7	20.5	3.4	1.4	46.1	22.4	3.2	2.3	3.1	1.5	0.9	0.8	1.0	13.7	9.1	4.3	<0.5	<0.5	2.8	1.2	<0.5	0.9	1.7	3.3
Silver (total)	µg/L	0.01	No Water Quality Objective Value	-	-	-	-	<0.01	<0.01	0.10	0.08	0.09	<0.01	0.32	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver (dissolved)	µg/L	0.01	0.02	-	<0.01	-	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Zinc (total)	µg/L	1	No Water Quality Objective Value	-	-	-	-	31	6	26	8	20	3	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc (dissolved)	µg/L	1	2.4	-	9	-	132	4	2	24	2	3	4	8	1	4	7	3	<1	7	<1	13	7	5	<1	3	47	8	88	<1	1	8	2	10	<1	13	<1

Snowy Hydro 2.0 Main Works
Monthly EPL Sampling: 01-28 February 2026 - Talbingo and Tantangara Reservoir

Analyte	Unit	Limit of Reporting	Water Quality Objectives	EPL10	EPL11	EPL28	EPL29	EPL32	EPL38	EPL39	EPL40	EPL51	EPL107	EPL108	EPL109
Field				1/02/2026	1/02/2026	8/02/2026	8/02/2026	8/02/2026	8/02/2026	7/02/2026	8/02/2026	8/02/2026	1/02/2026	1/02/2026	1/02/2026
pH	pH Unit	-	6.5-8	7.93	8.12	7.07	7.91	7.6	7.18	7.18	7.37	7.88	8.29	8.34	8.48
Electrical Conductivity	µS/cm	-	20-30	97	76	31	26	26	27	27	30	26	48	42	45
Oxidation Reduction Potential	mV	-	No Water Quality Objective Value	174	150	238	211	221	234	200	229	215	129	116	90
Temperature	°C	-	No Water Quality Objective Value	26.43	25.98	18.07	19.51	19.08	18.67	17.95	18.27	19.24	25.12	24.8	24.27
Dissolved Oxygen	% saturation	-	90-110	63.9	63	73.6	63.2	67	65.4	56.6	55.3	66	83.4	62.4	73.2
Turbidity	NTU	-	1-20	1.35	1.5	7.1	6.3	5.2	3.1	6.8	4.3	6.1	0.96	10.1	28.8
Laboratory analytes															
Total suspended solids	mg/L	5	No Water Quality Objective Value	<5	<5	5	<5	5	<5	<5	<5	<5	<5	<5	<5
Hardness as $CaCO_3$ (filtered)	mg/L	1	No Water Quality Objective Value	41	29	9	9	9	9	7	9	9	14	14	17
Nutrients															
Ammonia as N	µg/L	10	10	10	10	10	<10	20	<10	20	<10	<10	<10	<10	<10
Nitrite + Nitrate as N (NOx)	µg/L	10	10	20	20	<10	<10	<10	<10	40	<10	<10	<10	<10	<10
Kjeldahl Nitrogen Total	µg/L	100	No Water Quality Objective Value	300	300	300	300	300	300	300	300	300	300	200	200
Nitrogen (Total)	µg/L	100	350	300	300	300	300	300	300	300	300	300	300	200	200
Reactive Phosphorus (filtered)	µg/L	10	5	<10	<10	10	<10	<10	10	<10	10	<10	<10	<10	<10
Phosphorus (Total)	µg/L	10	10	<10	<10	60	50	50	80	20	50	60	<10	<10	<10
Inorganics															
Cyanide Total	mg/L	0.004	0.007	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Hydrocarbons															
Oil and Grease	mg/L	1	No Water Quality Objective Value	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Metals															
Aluminium (filtered)	µg/L	5	55	<5	<5	23	34	35	35	38	22	32	<5	<5	<5
Arsenic (filtered)	µg/L	0.2	13	0.6	0.5	0.3	0.3	0.3	0.3	0.2	0.3	0.3	0.3	0.3	0.3
Chromium (III+VI) (filtered)	µg/L	0.2	0.01	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Copper (filtered)	µg/L	0.5	1.4	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Iron (filtered)	µg/L	2	300	26	14	243	180	182	203	95	243	170	4	4	5
Lead (filtered)	µg/L	0.1	3.4	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Manganese (filtered)	µg/L	0.5	1,900	<0.5	<0.5	1	1.2	1.2	1.3	2.7	1	1.2	<0.5	<0.5	<0.5
Nickel (filtered)	µg/L	0.5	11	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Silver (filtered)	µg/L	0.01	0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Zinc (filtered)	µg/L	1	8	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Biological															
Biochemical Oxygen Demand	mg/L	2	No Water Quality Objective Value	10,000	7,800	15,000	-	-	-	-	-	86	-	-	-
Thermotolerant Coliforms	CFU/100mL	1	No Water Quality Objective Value	2	4	4	-	-	-	-	-	3	-	-	-

Snowy Hydro 2.0 Main Works
Monthly EPL Sampling: 01-28 February 2026 - Surface Water

Analyte	Unit	Limit of Reporting	Water Quality Objectives	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
Field				17/02/2026	17/02/2026	17/02/2026	17/02/2026	17/02/2026	17/02/2026	17/02/2026	18/02/2026	-	6/02/2026	6/02/2026	7/02/2026	7/02/2026	7/02/2026	7/02/2026	7/02/2026	7/02/2026	21/02/2026	21/02/2026	21/02/2026	-	-	-	-	-	21/02/2026	21/02/2026	18/02/2026	-	2/05/2026	2/08/2026	2/06/2026	7/02/2026	-	7/02/2026	7/02/2026	-	-
pH	pH Unit	-	6.5-8	8.89	8.92	8.92	8.88	8.88	8.91	8.91	8.13	-	8.24	7.75	8.05	7.94	7.03	8.27	7.93	6.98	7.13	9.26	-	-	-	-	-	8.82	9.18	8.41	-	8.77	8.74	9.16	8.73	-	8.55	8.23	-	-
Electrical Conductivity	µS/cm	-	30-350	172	187	199	204	171	174	173	174	-	40	35	35	28	26	41	36	65	48	1,460.00	-	-	-	-	-	1,090.00	1,160.00	1,040.00	-	261	826	852	2,270.00	-	3,540.00	2,180.00	-	-
Oxidation Reduction Potential	mV	-	No Water Quality Objective Value	168	19	195	175	190	179	171	181	-	159	182	184	187	239	158	176	130	170	70	-	-	-	-	-	116	1,160.00	27.00	-	133	129	107	29	-	106	94	-	-
Temperature	°C	-	No Water Quality Objective Value	23.36	21.59	20.15	19.73	21.64	21.79	22.58	20.95	-	17.65	16.8	11.18	11.01	17.39	10.46	10.39	16.02	23.88	23.43	-	-	-	-	-	25.57	27.23	21.65	-	21.88	24.76	22.96	20.84	-	22.55	21.85	-	-
Dissolved Oxygen	% saturation	-	90-110	83.4	84.8	81.5	85.7	80.2	83.6	84.3	114.4	-	71.5	50.8	60.3	55.7	68.7	60	48.6	53.2	62.3	69.8	-	-	-	-	-	91.3	78.5	40.5	-	82.7	69.2	89.1	39.7	-	63.7	52.1	-	-
Turbidity	NTU	-	2-25	0	0	6	17.9	0	0.5	0.1	0	-	0.2	0.6	3.7	2.56	25.8	3.8	3.7	11.1	53.7	24.3	-	-	-	-	-	831	1,030.00	346.00	-	214	27.1	40.5	45.4	-	2.3	30.1	-	-
Laboratory analytes																																								
TSS	mg/L	5	No Water Quality Objective Value	<5	<5	<5	<5	<5	<5	<5	<5	-	<5	<5	<5	<5	<5	<5	<5	<5	8	15	-	-	-	-	-	748	1,370	142	-	34	8	16	<5	-	39	8	-	-
Hardness as CaCO3	mg/L	1	No Water Quality Objective Value	73	87	87	87	73	85	73	83	-	18	16	13	13	9	16	16	17	17	291	-	-	-	-	-	49	91	206	-	89	246	230	669	-	1,220	787	-	-
Nutrients																																								
Ammonia as N	µg/L	10	33	30	20	20	20	10	40	10	<10	-	20	10	10	<10	10	10	10	20	30	60	-	-	-	-	-	80	70	20	-	980	90	30	50	-	60	10	-	-
Nitrite + Nitrate as N (NOx)	µg/L	10	35	<10	<10	90	<10	<10	<10	<10	30	-	<10	10	<10	<10	<10	<10	<10	<10	<10	32,000	-	-	-	-	-	4,660	4,050	<10	-	3,490	15,700	12,200	84,800	-	2,450	90	-	-
Kjeldahl Nitrogen Total	µg/L	100	No Water Quality Objective Value	100	100	100	100	<100	100	<100	100	-	200	200	<100	<100	300	200	200	100	300	1,220	-	-	-	-	-	3,800	4,900	700	-	1,400	3,600	1,000	6,600	-	700	300	-	-
Nitrogen (Total)	µg/L	100	250	100	100	200	100	<100	100	<100	100	-	200	200	<100	<100	300	200	200	100	300	34,200	-	-	-	-	-	8,500	9,000	700	-	4,900	19,300	13,200	91,400	-	3,200	300	-	-
Reactive Phosphorus	µg/L	10	35	<10	10	10	10	<10	<10	<10	<10	-	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-	-	-	-	-	20	<10	<10	-	<10	<10	<10	<10	-	<10	<10	-	-
Phosphorus (Total)	µg/L	10	20	<10	20	10	<10	30	<10	<10	<10	-	20	20	20	20	20	20	40	30	40	20	-	-	-	-	-	820	1,520	30	-	80	60	80	20	-	40	40	-	-
Inorganics																																								
Cyanide Total	µg/L	4	0.004	<4	<4	<4	<4	<4	<4	<4	<4	-	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	-	-	-	-	-	<4	<4	<4	-	<4	<4	<4	<4	-	<4	<4	-	-
Hydrocarbons																																								
Oil and Grease	mg/L	1	No Water Quality Objective Value	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	-	-	-	-	-	<1.0	<1.0	5.50	-	<1.0	<1.0	<1.0	<1.0	-	<1.0	<1.0	-	-
Metals																																								
Aluminium (total)	µg/L	5	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aluminium (dissolved)	µg/L	5	27	<5	<5	<5	<5	<5	<5	<5	<5	-	10	<5	11	11	36	14	16	17	21	7	-	-	-	-	-	24	25	18	-	32	18	24	9	-	5	<5	-	-
Arsenic (total)	µg/L	0.2	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic (dissolved)	µg/L	0.2	5	0.7	0.4	0.7	0.7	0.7	0.7	0.7	0.7	-	<0.2	<0.2	<0.2	<0.2	0.3	0.2	0.2	0.3	0.4	3.2	-	-	-	-	-	14.2	17.5	3.7	-	6.9	3.3	2.5	2.5	-	3.9	2.0	-	-
Chromium (III+VI) (total)	µg/L	0.2	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium (III+VI) (dissolved)	µg/L	0.2	0.01	0.2	<0.2	0.2	<0.2	0.2	0.2	0.2	<0.2	-	0.3	0.3	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	8.6	-	-	-	-	-	3.7	19.9	<0.2	-	6.8	3.3	5.1	1.0	-	1.4	0.4	-	-
Copper (total)	µg/L	0.5	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper (dissolved)	µg/L	0.5	1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.9	-	-	-	-	-	5	3.7	1.4	-	<0.5	1.0	1.2	1.0	-	1.2	0.8	-	-
Iron (total)	µg/L	2	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron (dissolved)	µg/L	2	300	6	12	16	11	6	6	8	9	-	64	18	37	28	200	87	92	358	268	<2	-	-	-	-	-	3	3	<2	-	<2	3	<2	3	-	<2	<2	-	-
Lead (total)	µg/L	0.1	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead (dissolved)	µg/L	0.1	1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	0.1	0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	-	-
Manganese (total)	µg/L	0.5	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese (dissolved)	µg/L	0.5	1,200	3.6	4.3	2.9	3.9	1.5	1.5	2.6	2.6	-	1.3	1.9	3.3	1.5	1.4	4.9	4	113	1	<0.5	-	-	-	-	-	<0.5	<0.5	68.2	-	<0.5	0.9	<0.5	0.5	-	<0.5	0.8	-	-
Nickel (total)	µg/L	0.5	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel (dissolved)	µg/L	0.5	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	<0.5	<0.5	-	-	-	-	-	3	2.7	1.9	-	<0.5	1.1	1.8	2.4	-	7.2	5.3	-	-
Silver (total)	µg/L	0.01	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver (dissolved)	µg/L	0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	-	-	-	-	<0.01	<0.01	<0.01	-	<0.01	<0.01	<0.01	<0.01	-	<0.01	<0.01	-	-
Zinc (total)	µg/L	1	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc (dissolved)	µg/L	1	2.4	<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	-	-

snowy2.0

Snowy Hydro 2.0 Main Works

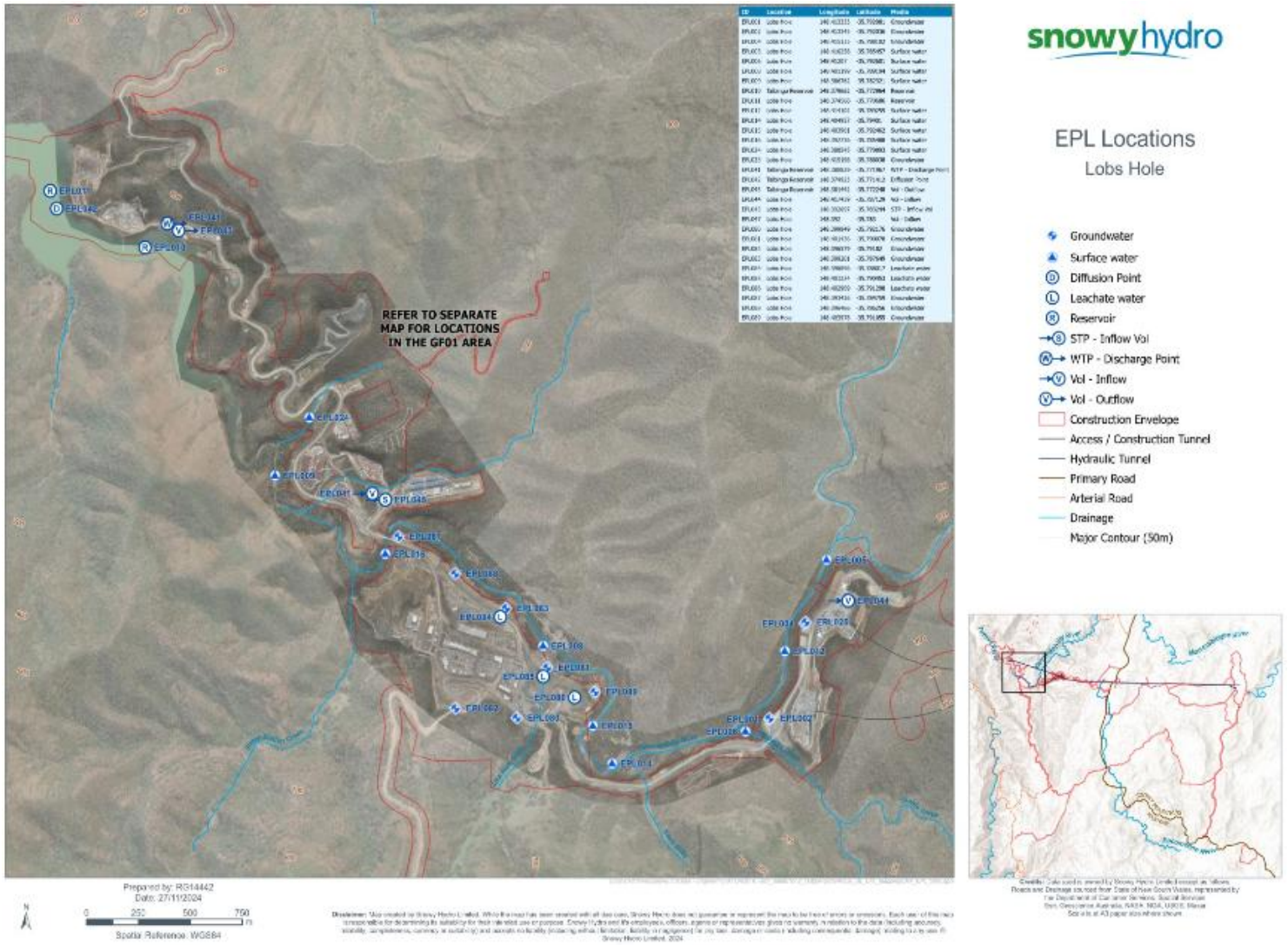
Monthly EPL Sampling: 01-28 February 2026 - Discharge Water

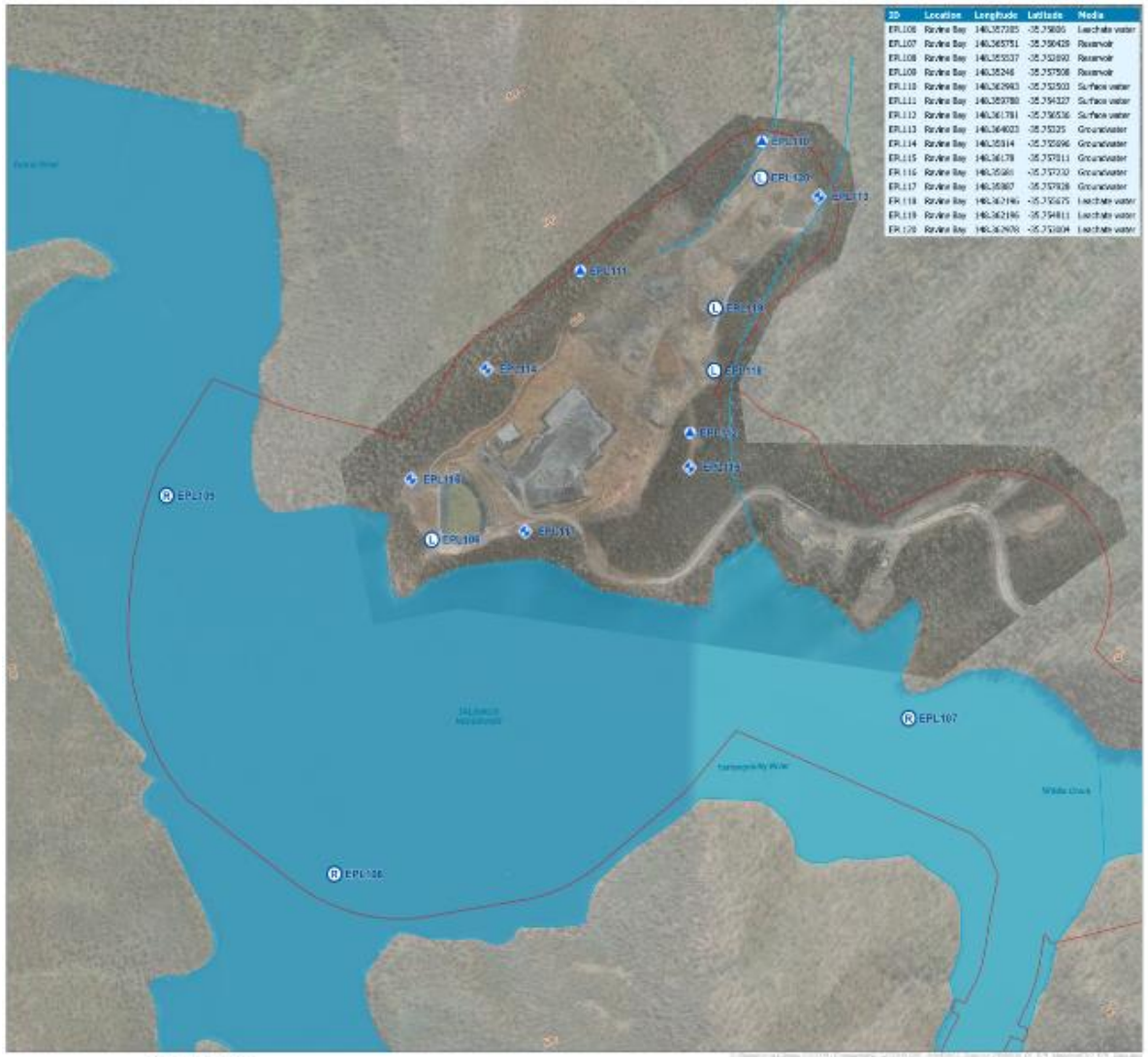
Analyte	Unit	Limit of Reporting	Water Quality Objectives*	EPL 41 4/02/2026	EPL 50 8/02/2026
Field					
pH	pH Unit	-	6.5-8.5	7.55	6.82
Electrical Conductivity	µS/cm	-	700 (EPL 41) / 200 (EPL 50)	3	93
Oxidation Reduction Potential	mV	-	No Water Quality Objective Value	207	239
Temperature	°C	-	No Water Quality Objective Value	22.41	19.31
Dissolved Oxygen	% saturation	-	No Water Quality Objective Value	81.7	69.4
Turbidity	NTU	-	<25	16.1	0.9
Laboratory analytes					
Total suspended solids	mg/L	5	5	<5	<5
Hardness as $CaCO_3$ (filtered)	mg/L	1	No Water Quality Objective Value	<1	<1
Nutrients					
Ammonia as N	mg/L	0.01	1	<0.01	0.04
Nitrogen (Total)	mg/L	0.10	1.5	<0.10	1.2
Phosphorus (Total)	mg/L	0.01	0.3	<0.01	0.04
Inorganics					
Cyanide Total	µg/L	4	No Water Quality Objective Value	<4	<4
Hydrocarbons					
Oil and Grease	mg/L	1	2	<1.0	<1.0
Metals					
Aluminium (dissolved)	µg/L	5	55	<5	<5
Arsenic (dissolved)	µg/L	0.2	13	<0.2	<0.2
Chromium (III+VI) (dissolved)	µg/L	0.2	1	<0.2	2.6
Copper (dissolved)	µg/L	0.5	14	<0.5	0.7
Iron (dissolved)	µg/L	2	300	<2	<2
Lead (dissolved)	µg/L	0.1	3.4	<0.1	<0.1
Manganese (dissolved)	µg/L	0.5	1,900	<0.5	<0.5
Nickel (dissolved)	µg/L	0.5	11	<0.5	<0.5
Silver (dissolved)	µg/L	0.01	0.05	<0.01	<0.01
Zinc (dissolved)	µg/L	1	8	<1	5
Biological					
Faecal Coliforms	CFU/100mL	1	10	1	<1
Biological Oxygen Demand	mg/L	2	3.5	<2	2

* Water Quality Objectives 90 Percentile Concentration Limit as per EPL21266

Snowy Hydro 2.0 Main Works Monthly EPL Sampling: 01-28 February 2026 - Discharge Volumes	EPL 43	EPL 50
Date	Discharge volume (Megalitres)	
1/02/2026	-	0.43
2/02/2026	-	0.51
3/02/2026	-	0.52
4/02/2026	-	0.56
5/02/2026	-	-
6/02/2026	-	0.47
7/02/2026	-	0.13
8/02/2026	0.76	0.38
9/02/2026	-	0.57
10/02/2026	0.34	0.62
11/02/2026	-	0.64
12/02/2026	-	0.43
13/02/2026	0.33	0.32
14/02/2026	-	0.33
15/02/2026	-	0.64
16/02/2026	-	0.71
17/02/2026	-	0.56
18/02/2026	-	-
19/02/2026	-	-
20/02/2026	-	-
21/02/2026	-	0.49
22/02/2026	-	0.23
23/02/2026	0.54	0.33
24/02/2026	-	0.46
25/02/2026	-	0.91
26/02/2026	-	0.60
27/02/2026	-	0.29
28/02/2026	0.56	0.63

APPENDIX B – EPL LOCATION MAPS





snowy hydro

EPL Locations
Ravine Bay

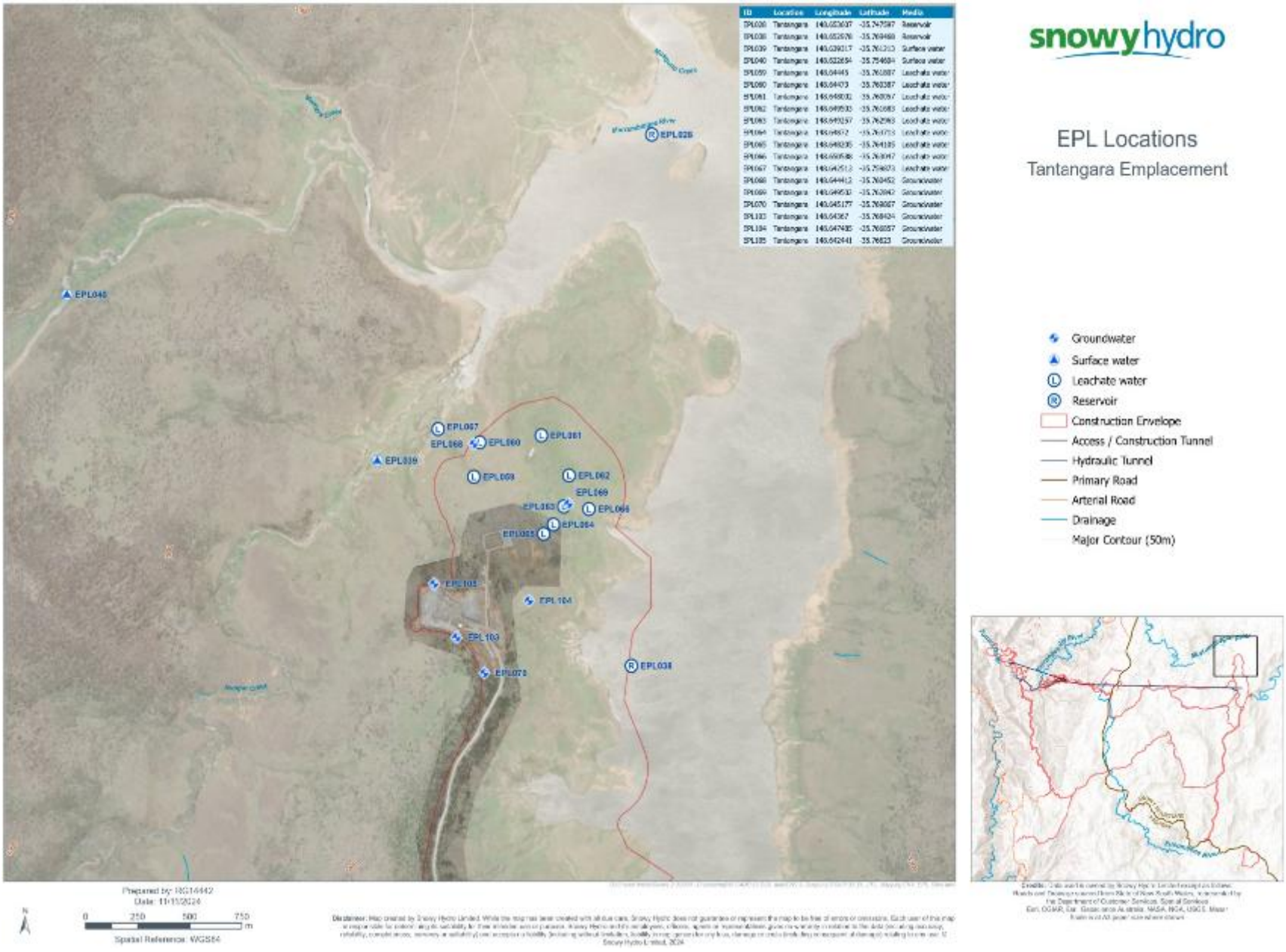
- Groundwater
- Surface water
- Leachate water
- Reservoir
- Construction Envelope
- Access / Construction Tunnel
- Hydraulic Tunnel
- Primary Road
- Arterial Road
- Drainage
- Major Contour (50m)

snowyhydro

EPL Locations

Tantangara

- Surface water
- Diffusion Point
- Reservoir
- STP - Inflow Vol
- WTP - Inflow Vol
- WTP - Discharge Point
- Construction Envelope
- Access / Construction Tunnel
- Hydraulic Tunnel
- Primary Road
- Arterial Road
- Drainage
- Major Contour (50m)



ID	Location	Longitude	Latitude	Media
EPL028	Marica	148.488332	-35.794198	Surface water
EPL027	Marica	148.488556	-35.793688	Surface water
EPL071	Marica	148.452542	-35.786657	Surface water
EPL072	Marica	148.464127	-35.786646	Groundwater
EPL073	Marica	148.455317	-35.785423	Groundwater
EPL099	Marica	148.463246	-35.785499	Leachate water
EPL100	Marica	148.461039	-35.785835	Leachate water
EPL101	Marica	148.461624	-35.786252	Leachate water
EPL102	Marica	148.454699	-35.785422	Groundwater

snowyhydro

EPL Locations

Marica

- Groundwater
- Surface water
- Leachate water
- Construction Envelope
- Access / Construction Tunnel
- Hydraulic Tunnel
- Primary Road
- Arterial Road
- Drainage
- Major Contour (50m)

Prepared by: RG14442
Date: 27/11/2024

0 250 500 750 m

Spatial Reference: WGS84

snowyhydro

EPL Locations

Nungar Creek

- Surface water
- Construction Envelope
- Access / Construction Tunnel
- Hydraulic Tunnel
- Primary Road
- Arterial Road
- Drainage
- Major Contour (50m)

snowy hydro

EPL Locations

Rock Forest

- Construction Envelope
- Surface water
- Leachate water
- Access / Construction Tunnel
- Hydraulic Tunnel
- Primary Road
- Arterial Road
- Drainage
- Major Contour (50m)