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REPORT

QUARTERLY ENVIRONMENTAL WATER
REPORT
MARCH – MAY 2026

S2-ENV-WA-GEN-REP-FGJV0155

REV A

JUNE 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.

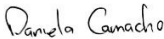
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ABBREVIATIONS AND DEFINITIONS

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 **Error! Reference source not found.**).

Table 1-1 Monitoring overview

Aspect	Objective
Surface Water Monitoring Program	
Routine receiving surface water quality monitoring	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> inform and assess water reuse, site balance and compliance with the infrastructure approval schedule 3, condition 30 (a)
Leachate detection program	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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 March 2026 to 31 May 2026. This period was marked by the implementation of the EPL 21266 Variation, issued on 1 April 2026, which expanded our compliance scope to include Chlorophyll-a, Calcium, Nitrite, Nitrate and Dissolved Organic Carbon (DOC), as well as the inclusion of the monitoring locations at Rock Forest and downstream Marica, and the condition U1 has been updated.

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	<p>General</p> <ul style="list-style-type: none"> TBM2 has completed the MAT01 and CT17 tunnels. Subsequently, this TBM was relocated to the Talbingo Adit Portal and completed the Tailrace Tunnel (TRT). TBM1 commenced at the ECVT portal and completed the ECVT tunnel up to the base of the Inclined Pressure Shaft (IPS). <p>ECVT / MAT Portal</p> <ul style="list-style-type: none"> The headwall and culvert works are completed at HDD. ECVT 6-bay wedge pit was desilted, and material was placed at Ravine Bay PSE. The construction of concrete-lined wedge pit was completed at the northern side of ECVT spoil yard. This wedge pit will be effective to prevent water runoff from flowing down the ECVT ramp road. Clearing and grubbing activities on-going at ECVT in relation to TP03. <p>Camp PAD</p> <ul style="list-style-type: none"> Works are continuing at Pad D to extend the commercial laundry, including the transfer of fill material from Marica West Road. Environmental controls have been installed adjacent to the clean-water drain to minimise potential site runoff during rainfall events. <p>Office PAD</p> <ul style="list-style-type: none"> F5A basin clean water drain modification works were conducted during the reporting period. <p>Main Yard</p> <ul style="list-style-type: none"> F8 Leachate Basin was subject to emergency repairs after a significant rainfall event caused damage to basin wall. MY07 spillway has been rectified to ensure conformance with the ESCP. MYLS Access Track Reworks was carried out. <p>GF01</p> <ul style="list-style-type: none"> F13 inlet drainage was repaired by Leed, all water is now diverted into the basin, and the basin wall has been repaired and covered. <p>Talbingo</p> <ul style="list-style-type: none"> Talbingo trial placement of spoil to support the micropiling works was completed without incident. <p>Ravine Bay / Middle Creek</p> <ul style="list-style-type: none"> The construction team has commenced the construction of the new basin on the north side of the Middle Creek Bridge. Spoil emplacement during this reporting period.

Location	Key Construction Activities
Marica/ Gooandra	<ul style="list-style-type: none"> TBM4 excavation continues within the Marica USS using D&B methods, with spoil stockpiled in the lined area adjacent to the USS as well as associated Pads. Additional leachate basins at Marica, installed to support TBM4 works were plumbed into the new CWTP. TBM4 water treatment plant commissioned and operational - now receiving water from Pad 3 leachate basin. Hydroseeding scope for Gooandra finalised, seed ordered and works completed. Gooandra works completed. Earthworks for new borehole drilling pad at gatehouse.
Rock Forest	<ul style="list-style-type: none"> Expanded basin adjacent site office received good inflow and now has 1.4m water depth (spillway is at 2.4m). Basin liner complete now with inflows. Spoil transported from Marica to Rock Forest (from TBM4 and upstream surge shaft). PSE lining and design footprint.
Tantangara	<ul style="list-style-type: none"> TBM3 commenced tunnelling at the Tantangara Adit Portal and will complete the Headrace Tunnel (HRT) intersecting with TBM4. Weed spraying was performed this reporting period. Silt fence installation completed post topsoil placement located at the PSE Access Road cleared behind S1A at TSE. Access road at TSE near LB3 works commenced. Newly added sump works at PSE Pad. Completed hydromulching conducted at PSE. CH2500, CH2400 and CH2100 resizing works completed. STP shed construction ongoing. Completed decommissioning of CH2180 sediment basin (Quarry Road). Two monitoring buoys installed in Tan Res to monitor analytes in real time. Pontoon Pipeline connection works underway. CH2525 decommissioned and turned into sump as per ESCP recommendations. 100mm rock placed along exposed swales to Camp as per ESCP recommendations. Intake Haul Road C&G works for Stage 3 Phase 1 have been completed.

3. WEATHER CONDITIONS

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

- “Lobs Hole” - 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; and
- “Tantangara” - an automated weather station managed by FGJV in Tantangara construction site.

The Tantangara and Cabramurra stations are located within alpine environments, with elevations of approximately 1230 m and 1482 m whilst Lobs Hole has an elevation of 546. Tantangara and Lobs Hole weather stations record actual onsite conditions at the respective construction sites while Cabramurra weather station is representative of conditions at Marica which has an elevation of 1430 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		
	Mar	Apr	May	Mar	Apr	May	Mar	Apr	May
Temperature									
Mean maximum (°C)	30.5	25.6	22.5	22.5	18.9	15.3	28.1	23.6	20.5
Mean minimum (°C)	2.7	-0.2	-0.4	-0.1	-0.6	-2.8	0.1	-3.5	-3.1
Rainfall									
Monthly	170.6	35.2	105.6	190.4	43	98.4	134.8	43.4	65.8
Long Term Average	85.5	43.35	61.45	84.15	45.45	73.65	68.05	41.15	55

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.

This reporting period indicates a significant decrease in ambient temperatures across all sites. This downward trend was most pronounced at Tantangara, which recorded the lowest regional temperatures, fluctuating between 0.1°C and -3.5°C. Conversely, Lobs Hole maintained the warmest conditions during this period, with temperatures ranging between 22.5°C and 30.5°C. In terms of precipitation, high rainfall events dominated the autumn months, with Marica receiving the maximum cumulative volume of 190.4 mm in March. High precipitation has also been registered in May, during which Lobs Hole recorded a monthly total of 105.6 mm.

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).

Relevant NATA accredited laboratory analytical results have been included in Appendix B 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 (March 2026 – May 2026), an increase in ammonia concentrations was observed across the EPL monitoring sites along the Yarrangobilly River, with a range of <10 µg/L and 70 µg/L, with EPL15 recording one of the highest values. Data analysis also showed a gradual decrease in pH levels throughout the period. In March, pH values were generally close to 8.0–8.5; however, by May they had declined to below 7.8 at several sites. An increase in turbidity was also recorded, likely associated with the higher river flows observed during the period. The combination of lower temperatures, reduced pH, increased turbidity, and significantly higher flows appears to have been the main driver of the observed changes in water quality. Lower pH and cooler water temperatures favour the ammonium form of ammonia, influencing the measured concentrations. In addition, rainfall events prior to sampling likely contributed to increased organic matter inputs, where surface runoff can mobilise accumulated organic material from the catchment and transport it into tributaries and the main channel of the Yarrangobilly River,

resulting in elevated organic matter loads within the watercourse and potentially contributing to the increase in Total Nitrogen concentrations. In addition, the baseline data validation shows that this exact environmental behaviour in Ammonia and Total Nitrogen spikes has been documented across previous monitoring years, concentrations have ranged from less than 100 µg/L to 800 µg/L. It is important to emphasize that the highest TN concentrations are directly driven by the organic nitrogen (TKN). The consistency of these historical records indicates that these conditions likely represent a standard seasonal transition.

Additionally, Lobs Hole includes three surface locations downstream of GF01: EPL24, EPL55, and EPL122. While monitoring points EPL24, EPL55, and EPL122 remained dry throughout the summer, the subsequent wet weather restored active surface flows across these water channels. Water quality profiles remained within the historical baseline ranges, exhibiting sustained exceedances of the WQOs that align with the data trends reported in previous water reports. Notably, while EPL122 historically registered the lowest concentrations for Total Nitrogen, data in May indicated a distinct upward trajectory in nutrient loading at this location.

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. The spikes in TN and ammonia recorded in the Eucumbene River were most likely related to rainfall events prior to sampling. Due to the rainfall generated surface runoff, which washed organic matter and nutrients from the surrounding catchment into the river, increasing the nutrient load in the water, in addition to the animal matter around the river footprint. Higher flows may have also disturbed the riverbed, releasing ammonia that had previously been trapped within the sediments into the water column. The lower water temperatures and pH values observed during this period are consistent with wet weather conditions. While EPL71 remained dry during summer or dry weather conditions, subsequent wet weather restored active surface flows across this water channel. Notably, the surface runoff across the surrounding catchment mobilized a high load of organic matter into the watercourse, driving an elevation in TN concentrations.

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). Monitoring point EPL33 recorded the highest regional concentration of TN during this reporting period. At the commencement of the reporting period in March, pH levels remained elevated, mirroring trends from the previous monitoring period. During this period, on 19 March 2026, Water NSW extended a precautionary red alert warning for high levels of potentially toxic blue-green algae in the Murrumbidgee River from downstream of Tantangara Reservoir to the ACT border. They also mentioned that “Blue-green algae are naturally occurring and can reproduce quickly in still or slow-flowing water when there are abundant sunlight and sufficient nutrients.” By May, however, pH values declined within the WQOs, illustrating the dynamic seasonal shifts influencing nutrient cycling at this location. Crucially, highly visible algal blooms were observed within the watercourse during sampling. This localized biological proliferation acted as the likely primary driver behind both the elevated turbidity levels and the heightened organic nitrogen load. A review of historical data ranges confirms that these concurrent nutrient and physicochemical fluctuations align with the ambient conditions for this time of year; despite this, TN levels decreased markedly during May. This reduction was driven by a combination of falling seasonal temperatures and high river flows, which effectively diluted nutrient concentrations within the watercourse. In contrast, monitoring points EPL30, EPL31, and EPL35 maintained full compliance with the WQOs throughout the reporting period. While EPL34 registered an initial peak concentration of 600 µg/L in March, before subsequently declining to levels within the WQO thresholds by the end of the period.

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 historical land use, specifically livestock activity and past fertilizer applications. Because these elevated concentrations reflect pre-existing regional background conditions, they 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. It's important to note that the trends remain within the historical ranges for this monitoring area.

4.2. Reservoir Water Quality Monitoring

The Talbingo Reservoir monitoring network consists of five locations: EPL10, EPL11, EPL107, EPL108, and EPL109. EPL10 is the ambient reference point upstream of the licensed discharge diffuser, while EPL11 is the downgradient ambient reference point, located within proximity to the Talbingo Intake. The Ravine Bay area within the reservoir is monitored via EPL107, EPL108, and EPL109. Data recorded across both the prior and current reporting periods indicated a sustained presence of organic loading within Talbingo Reservoir. This background biological activity is typically reflected in the nutrient profiles and elevated thermotolerant coliform levels at monitoring points EPL10 and EPL11. However, the current period recorded a notable decrease in thermotolerant coliform concentrations, which can be attributed to falling seasonal water temperatures suppressing microbial reproduction. These fluctuating concentrations remain characteristic of the regional environment; the data aligns with historical datasets and exhibits no project-attributable anomalies or trend deviations.

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. Although ambient surface water temperatures decreased slightly within the Tantangara Reservoir catchment footprint, nutrient concentrations, specifically ammonia, NO_x, and TN remained consistent with the previous period and exhibited a highly correlated physicochemical profile typical of these seasonal conditions. Field observations during the monitoring period confirmed the presence of active algal blooms and suspended organic matter, matching baseline conditions captured at upstream locations EPL28 and EPL40. This entrained biomass, combined with persistently low water levels, acted as the primary biological driver behind the elevated nutrient profiles and physical water quality shifts observed across the Tantangara Reservoir network. GROUNDWATER MONITORING PROGRAM

4.3. Groundwater Quality Monitoring

Routine groundwater water quality monitoring is undertaken in accordance with CoA Condition 31 and 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 Main Yard monitoring network consists of two upstream reference sites (EPL80 and EPL82) and five downstream locations (EPL81, EPL83, EPL87, EPL88, and EPL89). Ammonia and TN concentrations remain stable and in line with upstream baselines (EPL82 and EPL80), indicating these levels reflect regional water quality rather than project impacts, with the exception of EPL87 and EPL83. Overall, monitoring locations across the Main Yard network are characterized by elevated EC levels. Upstream locations usually registered baseline values of 2,900 µS/cm at EPL82 and 920 µS/cm at EPL80. Downstream monitoring points mirrored these background conditions,

with EC values bounding between 351 $\mu\text{S}/\text{cm}$ and 903 $\mu\text{S}/\text{cm}$ during the period. This correlation demonstrates that downstream water quality remains aligned with upgradient baseline characteristics. Secondly, dissolved arsenic levels are also consistent with upstream data, maintaining steady trends within historical ranges. In contrast, while EPL83 still records the highest overall concentrations of dissolved chromium across the network, its values during March and April dropped to the lowest levels observed in its tracking trend. Like GF01, Main Yard currently operates water extraction pumps as an environmental control or mitigation measure.

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 the reporting period, upstream pH at GF01 remained stable (ranging from 6.66 to 8.19) despite a slight drop in April. Downstream monitoring locations remained generally stable throughout the reporting period. The only exceptions were EPL58, EPL90, and EPL95, where lower pH values were recorded, ranging from 5.73 to 6.64. Electrical conductivity remained within historical baseline ranges, with no notable deviations observed. Nutrient (Ammonia, Total Nitrogen and NOx) concentrations were also generally stable across the monitoring network; a minor increase in NOx was recorded at EPL90 in April; however, concentrations returned to baseline levels in subsequent monitoring events. For trace metals, dissolved Nickel concentrations remained elevated at EPL95, continuing the trend observed during the previous reporting period. A localized increase in dissolved Arsenic was also recorded at EPL57.

It is important to note that no spoiling activities were undertaken within the GF01 and Main Yard PSE areas during this reporting period. To support ongoing compliance, remediation works and water extraction activities continued at the site to manage and mitigate potential impacts associated with leachate migration.

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 Main Works. During this reporting period, the upstream monitoring location EPL113 exhibited an increase in aluminium and copper concentrations toward the end of the reporting period. Conversely, EPL114 and EPL116 registered elevated levels of dissolved chromium. It is important to note that these monitoring points are situated upstream of the PSE where no project activities occur, and this is an indication that these elevated trends are reflective of ambient environmental water quality. Additionally, EPL113 and EPL116 presented minor exceedances in TN concentrations, ranging between 300 $\mu\text{g}/\text{L}$ and 400 $\mu\text{g}/\text{L}$. Despite these spikes, the remaining locations within the Ravine Bay network maintained full compliance with permissible limits. Regarding NOx and Total Phosphorus, analytical concentrations demonstrated stable, linear trajectories with no recorded anomalies. Meanwhile, pH profiles remained steady across both upstream and downstream assets, ranging from 6.11 to 7.69. Groundwater monitoring locations at Ravine Bay did experience a notable rise in aquifer water levels; however, this trend is directly attributable to heavy seasonal rainfall and subsequent localized groundwater recharge.

Marica is monitored via one upstream site (EPL72) and three downstream locations (EPL64, EPL65, and EPL66). Anomalous groundwater conditions were recorded downstream of EPL65 and EPL66 this period, characterized by a sharp decline in aquifer volumes that left insufficient water for sample collection; consequently, no physicochemical data is available for these monitoring points. Meanwhile, trends at EPL64 and upstream EPL72 remained uniform and in line with historical baselines. While EPL64 experienced a minor seasonal spike in ammonia during April (100 $\mu\text{g}/\text{L}$) before returning to 20 $\mu\text{g}/\text{L}$ by the end of this reporting period, EPL72 demonstrated steady, unimpacted baseline concentrations between 10 $\mu\text{g}/\text{L}$ and 20 $\mu\text{g}/\text{L}$. Elevated concentrations of dissolved arsenic and copper were recorded in EPL64 and EPL72 during this period. These concentrations are consistent with historical monitoring results and reflect the natural background conditions of the area. Available geological information suggests that the elevated arsenic and copper concentrations are likely related to naturally occurring mineralisation within the aquifer. The

gradual weathering and leaching of arsenic-bearing minerals may contribute to the concentrations observed in groundwater.

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 for this time of the year. 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. To manage localized nutrient loading, active groundwater abstraction has been implemented at EPL105 and EPL68 as an environmental control strategy.

The Rock Forest PSE monitoring network consists of two upgradient reference points (EPL123 and EPL124) and three downgradient locations (EPL125, EPL126, and EPL127). Pre-construction baseline datasets were collected in this area to provide a reference for assessing water quality trends before and after spoil deposition commenced. Consistent with broader project observations, these locations exhibit seasonal nutrient variability, with ammonia concentrations typically increasing in early March and gradually declining towards the end of May. TN concentrations appear to be largely influenced by organic nitrogen (TKN) and the accumulation of fine sediments observed in the sample sleeve during field sampling. Downstream nutrient and trace metal concentrations, including arsenic, chromium, and copper, remain comparable to upstream baseline conditions. This consistent distribution for nutrients and metals across the monitoring network suggests that these concentrations are likely associated with natural regional water quality characteristics rather than project-related.

5. 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 **Error! Reference source not found.**

Table 5-1 Design Rainfall Depths (SWMP Section 5.1.1)

Catchment	Description	85 th percentile, 5-day rainfall (mm)	90 th percentile, 5-day rainfall (mm)	95 th percentile, 5-day rainfall (mm)
Yarrangobilly River	Surface works at Lobs Hole	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) and Table 6-3 (Tantangara). No overtopping events were recorded at Marica during the reporting period.

Table 5-2 Incidents Recorded within Lobs Hole

Description	Location	Event Date	Incident Number	Immediate actions taken
Sediment Basin Overtopping	F12, F13	2/03/2026	00902	Undertake basic and comprehensive sampling at upstream, downstream, impact site (mixing zone) and within basins.
Sediment Basin Overtopping	SB5	03/03/2026	00911	Dewater SB5, undertake basic and comprehensive sampling at upstream, downstream, impact site (mixing zone) and within basin.
Sediment Basin Overtopping	F5A	03/03/2026	00912	Transfer F5A to F4, undertake basic and comprehensive sampling at upstream, downstream, impact site (mixing zone) and within basin.
Sediment and Leachate Basin Overtopping	F8, MY07, F10B	04/03/2026	00918	Undertake basic and comprehensive sampling at upstream, downstream, impact site (mixing zone) and within basins.
Leachate Basin Overtopping	F8	22/03/2026	01041	Dewater the basin, undertake basic and comprehensive sampling at upstream, downstream, impact site (mixing zone) and within basin.
Leachate Basin Overtopping	F10.5	24/03/2026	01076	Undertake basic and comprehensive sampling at upstream, downstream, impact site (mixing zone) and within basins.
Sediment Basin Overtopping	F8.5, F10B, F13, TTP01, MC05, F11.5, F10, GGB01, R16, F1, F3A, F3B, F5A	26/03/2026 - 27/03/2026	010706	Undertake basic and comprehensive sampling at upstream, downstream, impact site (mixing zone) and within basins.
Leachate Basin Overtopping	SB01	04/04/2026	01118	Undertake basic and comprehensive sampling at upstream, downstream, impact site (mixing zone) and within basins.
Leachate Basin Overtopping	F10.5	06/04/2026	01137	Commence transfers from F10.5 to Water Treatment Plants, undertake basic and comprehensive

				sampling at upstream, downstream, impact site (mixing zone) and within basins.
Leachate Basin Overtopping	SB01	09/04/2026	01142	Undertake basic and comprehensive sampling at upstream, downstream, impact site (mixing zone) and within basins.
Sediment Basin Overtopping	F8.5, F11.5, TTP01	10/04/2026	01154	Undertake basic and comprehensive sampling at upstream, downstream, impact site (mixing zone) and within basins.
Sediment Basin Overtopping	TAP01	2/05/2026	01260	Undertake basic and comprehensive sampling at upstream, downstream, impact site (mixing zone) and within basins.
Sediment and Leachate Basin Overtopping	F3A, F3B, F5A, F8, F8.5, F10B, F13, GF01, F10.5	3/05/2026 – 4/05/2026	01270	Undertake basic and comprehensive sampling at upstream, downstream, impact site (mixing zone) and within basins.
Sediment Basin Overtopping	SB05	5/05/2026	01275	Dewater SB05 basin to reinstate capacity, undertake basic and comprehensive sampling at upstream, downstream, impact site (mixing zone) and within basins.

Table 5-3 Incidents Recorded within Tantangara

Description	Location	Event Date	Incident Number	Immediate actions taken
Sediment Basin Overtopping	Batch Plant sediment basin	04/03/2026	00925	Undertake basic and comprehensive sampling at upstream, downstream, impact site (mixing zone) and within basins.
Sediment Basin Overtopping	Batch Plant sediment basin and CH300	27/03/2026	01078	Undertake basic and comprehensive sampling at upstream, downstream, impact site (mixing zone) and within basins.

6. CONCLUSION

During this reporting period, the sites within the project were influenced by seasonal cooling and high-intensity precipitation events, which presented distinct operational and compliance challenges across the project footprint. Persistent wet weather and subsequent catchment runoff triggered localized sediment accumulation within groundwater wells and elevated turbidity and flow rates across surface water networks. While lower water temperatures were anticipated to suppress microbial growth, field observations confirmed the continued presence of active algal blooms and entrained organic biomass within the Talbingo and Tantangara Reservoirs, which potentially served as the primary biological drivers of localized nutrient and thermotolerant coliform spikes.

The wet weather resulted in an increased frequency of sediment and leachate basin overtopping incidents, particularly at the Lobs Hole. In response, integrated operational and environmental management teams implemented immediate corrective actions. Additionally, during this period, the bouys at the Tantangara Reservoir were successfully installed, along with some site improvements including expanded basin water retention volumes and erosion control management.

APPENDIX A – EPL RESULTS

EPL 21266 In Situ Water Quality Measurements

EPL Monthly Monitoring March 2026

Table 1 - Surface Water Quality Data

River and Minor Watercourses

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
24/03/2026 9:30	EPL5	Yarragobilly River, upstream of the exploratory tunnel and construction pad	16.03	87.6	8.64	111	72	8.04	182	3.92	Water fast flowing. Water sample looks clean. No turbidity observed. Rainfall in last 24 hrs. Turbidity tested with Hach meter	Low DO% and high pH 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 construction works.
24/03/2026 10:06	EPL6	Wallace's Creek, upstream of Yarragobilly River and Wallace's Creek confluence	15.74	61.1	6.06	92	60	7.39	223	0.5	Water flow medium. No turbidity observed, water sample clean. Rainfall in last 24 hrs. Turbidity test to be requested to NATA approved Lab	Low DO% is within the range of upstream locations. Turbidity has been verified by a NATA approved Lab report as 0.5 NTU
24/03/2026 11:04	EPL8	Yarragobilly River, downstream of Lick Hole Gully	18.85	67.9	6.31	125	81	7.43	216	0.4	River flow fast. No turbidity observed, water sample clean. Rainfall in last 24 hrs	Low DO% is within the range of upstream locations. Turbidity is noted in the field observations.
24/03/2026 14:45	EPL9	Yarragobilly River, downstream of the accommodation camp and upstream of Talbingo Reservoir	14.23	72.4	6.06	124	80	8.42	166	2.51	River flow medium. No turbidity observed, water sample clean. Rainfall in last 24 hrs. Turbidity tested by hach meter	DO% is considered to be representative of the upgradient locations. Elevated pH is within the baseline water quality summary results in the surface water management plan.
24/03/2026 9:47	EPL12	Yarragobilly River, immediately downstream of portal pad	16.07	74.7	7.36	108	70	7.58	215	1.1	Water fast flowing. No turbidity observed, clean water sample. Rainfall in last 24 hrs	Turbidity is noted in the field observations. Low DO% is within the range of upstream locations.
24/03/2026 10:27	EPL14	Yarragobilly River, downstream of road construction areas	16.55	72.1	7.03	106	69	7.4	225	1.68	River flow medium. No turbidity observed and water sample clean. Rainfall in last 24 hrs. Turbidity tested by hach meter	Low DO% is within the range of upstream locations and baseline water quality results in the surface water management plan. Turbidity is mentioned in the field notes.
24/03/2026 10:47	EPL15	Yarragobilly River, downstream of road construction areas	17.03	97.6	9.42	112	72	7.45	221	1.68	River flow medium. No turbidity observed and water sample clean. Rainfall in last 24 hrs. Turbidity tested by hach meter	Turbidity is noted in the field observations, all other concentrations are within the WQO's.
24/03/2026 14:59	EPL16	Yarragobilly River, downstream of road construction areas	21.69	98.1	8.65	118	77	8.19	178	1.54	River flow high. Clear water sample. Rainfall in last 24 hrs. Turbidity tested with hach meter. QA sampled in this location	Slightly elevated pH is within the baseline water quality results summary in the water quality management plan. Turbidity has been noted in the field comments.
3/03/2026 9:26	EPL24	Yarragobilly River tributary (Watercourse 2), directly downstream of road	18.37	49.1	4.6	1300	706	7.1	221	6.2	Clear day. recent rain event >50mm. Water flowing.	DO levels are decreasing while EC is increasing, this will be monitored closely.
20/03/2026 11:02	EPL26	Eucumbene River downstream of Marica Road	15.37	94.6	9.46	24	16	8.29	103	0.7	Partially cloudy day, no rain, low water level, low flow, no odour.	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.
20/03/2026 10:40	EPL27	Eucumbene River upstream of Marica Road	16.14	89.2	8.77	19	12	8.55	136	1.98	Partially cloudy day, no rain, no odour, low level water, low flow, clear water, turbidity measured with Hach meter	High altitude and temperatures contribute to DO% being low in this upstream location unaffected by construction activities. All other parameters share similarities to the upgradient location.
15/03/2026 12:53	EPL30	Kellys Plain Creek, downstream of accommodation camp and laydown areas	16.66	72.4	7.05	21	15	6.09	250	25.2	Clear day, no recent rain, low flow, low level	This location aligns with the baseline water quality summary and is known to be frequented by hard hooved animals.
15/03/2026 13:07	EPL31	Kellys Plain Creek, upstream of accommodation camp and laydown areas	17.09	99.1	9.56	31	20	6.68	199	3.8	Clear day, no recent rain, signs of hard hooved animal activity near sample point	All parameters are within WQO's.
18/03/2026 11:40	EPL33	Murrumbidgee River, downstream of Tantangara reservoir outlet	18.14	82.9	7.82	32	21	9.32	134	42.1	Partially cloudy, no rain, high flow, green colour water, no odour, water discharging, foam observed near the discharge	Low DO and high pH levels have been linked to a non-project related algal bloom.
18/03/2026 12:26	EPL34	Hungar Creek, upstream of Tantangara Road	18.09	70.3	6.64	46	30	8.49	170	3.9	Cloudy day, no rain, low water level, low flow, no odour.	This sample point is upstream of project works and is therefore representative of background conditions.
18/03/2026 12:34	EPL35	Hungar Creek, downstream of Tantangara Road	18	64.7	6.12	39.0	25	8.24	175	0.7	Cloudy day, low flow, low water level, no odour.	This location is comparative to the upgradient sample point.
21/03/2026 8:50	EPL 36	Cameron's Creek, upstream of works in Rock Forest	15.43	56.3	5.62	31	20	6.91	136	7.0	Partially cloudy day, no rain, no odour, low water level, no flow, turbidity measured with Hach meter.	This sample point is upstream of construction activities and is therefore representative of background conditions.
21/03/2026 8:18	EPL 37	Cameron's Creek, downstream of works in Rock Forest	15.48	71.5	7.13	98	64	8.38	125	17.1	Clear day, no rain, low water level and flow, farm animals around, therefore animal organic matter in the watercourse. QAs collected in this locations.	Low DO% is considered to be representative of the upgradient location. Elevated pH is within the baseline water quality summary results in the surface water management plan.
3/03/2026 13:38	EPL52	GF01 leachate basin	22.21	92.3	6.28	1,020	656	8.56	177	84.2	Overcast day. Recent rain event >50mm. Water green/yellow colour.	This is leachate storage infrastructure.
30/03/2026 14:40	EPL55	GF01 surface water downstream	18.75	61	5.66	1,340	857	6.98	263	13.8	Water is clean and no odour. Fast flowing water. No rainfall in last 24 hrs	DO% recorded is within the range of previous sampling periods. High EC is consistent with ephemeral nature of this site and previously observed results.
-	EPL67	Hungar Creek downstream west	-	-	-	-	-	-	-	-	-	Due to low water levels within the Tantangara Reservoir, this location has been consolidated with EPL39.
20/03/2026 12:26	EPL71	Surface water downstream of Marica emplacement	-	-	-	-	-	-	-	-	Dry creek	No sample taken due to low water levels.
2/03/2026 11:43	EPL84	F8 Basin	19.33	52.5	4.83	691	442	8	92	1,000	Highly turbid >1000NTU, recent rain approx 30mm, no odours, QAs collected here	This is leachate storage infrastructure.
2/03/2026 13:24	EPL85	MY07 Basin	20.14	118.1	10.69	794	508	9.46	109	1,000.00	High turbidity >1000ntu, no odours, algae visible on surface, ducks present, recent moderate rainfall	This is leachate storage infrastructure.
2/03/2026 13:34	EPL86	LH501 Basin	20.53	147.1	13.21	721	461	9.42	110	92.6	Slightly turbid, no odours, recent moderate rainfall, basin low level	This is leachate storage infrastructure.
3/03/2026 13:42	EPL98	Rock blanket diversion monitoring under GF01 liner	18.2	49.9	4.68	1,570	1.01	6.05	281	1.59	Overcast day. Recent rain event >50mm. Flow from 4 of 6 pipes. Water running clear. Turb measured with Hach meter.	This is leachate storage infrastructure.
20/03/2026 13:07	EPL99	Marica Leachate Basin-Turkey's Nest	19.95	74.6	6.79	300	196	9.98	112	82.3	Partially cloudy day, no rain, turquoise water colour, no odour	This is leachate storage infrastructure.
20/03/2026 12:44	EPL100	Marica Lower Leachate Basin USS Shaft	20.1	93.8	8.49	589	377	8.41	186	168	Partially cloudy day, no rain, no odour, green/brown water colour	This is leachate storage infrastructure.
20/03/2026 12:57	EPL101	Marica Leachate Basin Spoil Pad	-	-	-	-	-	-	-	-	Very low water level, no representative to be sample	No sample taken due to low water levels.
27/03/2026 10:18	EPL106	Ravine Bay Leachate basin 1	17.45	83.4	7.93	232.00	148	7.83	10	173	Recent rain event >30mm. Raining at time of sample collection.	This is leachate storage infrastructure.

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27/03/2026 11:30	EPL110	Upstream monitoring of Ravine Bay emplacement area	-	-	-	-	-	-	-	-	Sample location dry	No sample taken due to low water levels.
20/03/2026 10:09	EPL118	Ravine Bay Leachate basin 2	21.62	80.9	7.07	2240	1430	9.11	185	7	Green colour, no odour, clear, sunny conditions, no sheen or algae	This is leachate storage infrastructure.
13/03/2026 13:35	EPL119	Ravine Bay Leachate basin 3	22.82	68.7	5.88	2010	1,280	8.64	172	1.8	QA_LOB_1 sample taken here. Sunny day, no rain in the past week. Water is clear, slight green tinge. No odour, no sheen.	This is leachate storage infrastructure.
20/03/2026 9:55	EPL120	Ravine Bay Leachate basin 4	-	-	-	-	-	-	-	-	Unable to sample as level too low to reach with equipment available	No sample taken due to low water levels.
3/03/2026 9:46	EPL122	GFO1 Drainage Line (Formerly EPL 55b)	18.19	51.9	4.88	761	487	7.77	200	135	Overcast day. Recent rain event >50mm.	GFO1 basin was overtopping at time of sampling.

Table 2 - Reservoir Water Quality Data
Talbingo and Tantangara Reservoirs

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
1/03/2026 10:08	EPL10	Talbingo Reservoir, upstream of water intake point and diffuser outlet.	23.17	82.5	7.05	86	56	7.62	200	1.1	Clear water, not turbid, cloudy conditions, no sheen or odour, no algae present	This is an upgradient location and considered background.
1/03/2026 9:54	EPL11	Talbingo Reservoir, downstream of outlet	22.99	83.3	7.14	61	40	7.7	198	4.6	No odour or sheen, cloudy conditions, clear water, 50 m upstream of buoy, no algae present	High EC and low DO% are representative of the upgradient location.
18/03/2026 8:22	EPL28	Tantangara Reservoir, upstream of works in the mouth of the Murrumbidgee River	16.71	94.3	9.17	34	22	9.81	111	43.2	Cloudy day, rain the day before, no rain at the time of sampling, low water level, 1.4m water depth, no odour, organic matter on the water surface.	This is an upgradient location and concentrations are considered to be representative of background conditions. High pH levels have been linked to a non-project related algal bloom.
18/03/2026 9:18	EPL29	Tantangara Reservoir, downstream of works area and upstream of lower Murrumbidgee River	17.81	92.5	8.79	32	21	9.57	134	58.2	Cloudy day, rain the day before 1.6mm, no rain at the time of sampling, low water level, 12.5m water depth, no odour	Concentrations are comparable to the upstream location.
18/03/2026 9:05	EPL32	Tantangara Reservoir, Tantangara Intake. Downstream of construction works	17.7	72.1	6.87	32	21	9.6	131	45.4	Cloudy day, rain overnight, no rain at the time of sampling, low water level, 11.8m water depth no odour, QAs were collected in this location.	Low DO% and slightly high EC falls within concentrations found during historic sampling rounds. High pH has been linked to a non-project related algal bloom that was also observed during March 2025 sampling rounds.
18/03/2026 9:00	EPL38	Tantangara Reservoir, variable location dependent on tide and reservoir levels. Between the emplacement area and the ancillary facilities for emplacement activities	17.6	86.5	8.25	32	21	9.63	133	50.0	Cloudy day, rain the day before, no rain at the time of sampling	Low DO% and slightly high EC falls within concentrations found during historic sampling rounds. High pH has been linked to a non-project related algal bloom that was also noted during March 2025 sampling rounds.
15/03/2026 12:02	EPL39	Confluence of Nungar Creek and Tantangara Reservoir, variable location dependent on tide and reservoir levels. Upstream of Tantangara construction works	16.79	93.8	9.1	29	19	6.27	215	5.8	Clear day, no recent rain, medium flow, level low	All concentrations are within WQO's.
18/03/2026 8:43	EPL40	Confluence of the upper Murrumbidgee River and Tantangara Reservoir, variable location dependent on tide and reservoir levels. Upstream of works	16.85	95	9.21	34	22	9.94	113	48.3	Cloudy day, rain the day before, low water level, 1.4m water depth, organic matter on the water surface, no odour.	This sampling location is upstream of construction activities and considered background. High pH levels have been linked to a non project related algal bloom.
18/03/2026 9:24	EPL 51	Tantangara Reservoir, downstream of Tantangara STP/PWTP diffuser outlet	17.68	83.5	7.96	35	22	9.61	132	39.4	Cloudy day, rain day before, no rain at the time of sampling, 12.1m water depth, low water level, no odour.	Concentrations are comparable to upgradient locations. High pH concentrations are linked to a non-project related algal bloom.
18/03/2026 9:22	EPL107	Upstream monitoring of Ravine Bay emplacement area within Yarrangobilly River	21.05	99.7	8.88	41	26	7.9	223	8.3	Clear, no odour or sheen, no algae present, green colour	This is an upstream location and high EC is considered naturally occurring.
1/03/2026 8:57	EPL108	Monitoring of Ravine Bay emplacement area (centre of PSE) within Yarrangobilly River	22.69	99.4	8.57	34	22	7.58	186	16.9	Water clear, no sheen or odour, a few bubbles on surface, no debris, sunny and cloudy conditions	This location is comparable to the upgradient location.
1/03/2026 8:49	EPL109	Upstream monitoring of Ravine Bay emplacement area within Yarrangobilly River	22.62	94.2	8.14	36	24	7.55	184	21.9	Cloudy day, no sheen or odour, not turbid, water clear, QA_TAL_1 taken here	Sample point has similar concentrations to the upstream location.

Table 3 - Treated Water Quality Data
Talbingo

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
4/03/2026 8:48	EPL41	Lobe Hole STP/PWTP Final Effluent Quality Monitoring Point. Downstream of final treatment, prior to discharge to Talbingo Reservoir.	22.58	63.2	5.47	6	4	7.98	189	7.6	rain over night, no smell, clear water, currently discharging	All readings are within WQO limits.

Table 4 - Treated Water Quality Data
Tantangara

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)		
			-	-	-	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
15/03/2026 9:44	EPL50	Tantangara STP/PWTP Final Effluent Quality Monitoring Point. Downstream of final treatment, prior to discharge to Tantangara Reservoir.	11.05	54.7	6.03	108	70	7.02	206	2.7	Clear day. No recent rain. Sample area clean and tidy. Qa's taken here.	All readings are within WQO limits.

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Table 5 – Groundwater Quality Data
GFD1 Surface Water and Groundwater

Table 5 - Groundwater Quality Data GFD1 Surface Water and Groundwater			Water Quality Objectives (see note 1)								Field Comments	Context
			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)		
3/03/2026 12:26	EPL56	GFD1 groundwater upstream east	17.97	20.6	1.95	252	164	7.46	201	13.3	Overcast day. Recent rain event >50mm.	This is an upstream location and low DO% is considered background in alpine groundwater aquifers. All other concentrations are within WQO limits.
3/03/2026 12:43	EPL57	GFD1 groundwater upstream west	17.04	18.3	1.76	271	176	7.9	187	69	Overcast day. Recent rain event >50mm.	This is upstream location has been encroached by project works and is in the process of being decommissioned.
3/03/2026 13:10	EPL58	GFD1 groundwater downstream	18.9	35	3.25	694	444	5.82	283	45.6	Overcast day. Recent rain event >50mm.	Low pH, DO% and high EC have been consistently reported at this location and considered background.
21/03/2026 11:31	EPL68	Tantangara groundwater downstream West	16.3	72.1	7.06	29.2	9.59	5.28	231.2	23	No visible sediment. No rain while sampling, though overcast. Algae observed initially, settling to clear water after 20 seconds.	This location has regularly returned low DO% and pH concentrations below WQO's and is considered ambient.
28/03/2026 10:34	EPL69	Tantangara groundwater downstream East	11.04	47.8	5.26	58	38	5.88	329	95.8	Clear day. Recent rain event >50mm. Water clear.	Low pH and DO% are considered background at this location.
28/03/2026 9:40	EPL70	Tantangara groundwater upstream	11.75	64.2	6.96	143	93	6.78	291	89.5	Clear day. Recent rain event >50mm. Water yellowy colour.	Sample point is located upgradient of any project related works and considered background.
20/03/2026 11:23	EPL 72	Marica groundwater upstream	13.54	103.8	10.8	78	51	8.2	167	62.9	Cloudy day, no rain, clear water, no odour, water pooling near the bore	This is an upstream location and not affected by construction works.
2/03/2026 14:13	EPL80	LHG groundwater upstream	17.25	22.5	2.16	929	595	6.78	99	129	Slightly turbid, no odours, orange/red particulates in water column	Low DO% and High EC are consistently returned at this sample point. Turbidity is also within the historic results.
2/03/2026 10:40	EPL81	LHG groundwater downstream	15.47	6.5	0.65	681	436	6.87	-5	181	Slightly turbid, no odours	Elevated EC and low DO% are consistently returned at this sample point. Turbidity is also within the concentrations of previously returned results.
2/03/2026 11:14	EPL82	MY groundwater upstream	17.21	16.4	1.56	2,910	1,860	6.66	9	99.1	Low turbidity, sulphurous odour detected, SWL is approximate due to difficulty obtaining reading with dip potentially from elevated EC	Elevated EC and low DO% are consistent with March 2025 concentrations. Turbidity is elevated from the previous month this however has remained within historic concentrations. Sample has been collected with a passive catch sleeve.
2/03/2026 10:10	EPL83	MY groundwater downstream	16.39	10.4	1.02	554	354	6.56	59	10.6	High clarity, sulphurous odour detected,	Low DO, high EC and neutral to alkaline pH combined with sulphuric odours are indicators of reducing groundwater and considered naturally occurring.
2/03/2026 11:35	EPL87	MY groundwater downstream	16.02	10.7	1.05	951	609	6.63	126	122	Slightly turbid, no odours	Low DO% and high EC have been consistently reported at this location and considered background.
2/03/2026 10:22	EPL88	MY groundwater downstream	17.16	22.2	2.13	950	608	6.71	-11	0.6	High clarity, strong sulphurous odour	High EC and low DO% have been consistently reported at this location and considered ambient.
2/03/2026 13:53	EPL89	LHG groundwater downstream	17.49	26.6	2.54	424	276	6.99	189	131	Slightly turbid, no odours	This location has regularly returned high EC and low DO% concentrations below WQO's and is considered ambient.
3/03/2026 10:29	EPL 90	GFD1 groundwater downstream	16.71	21.6	2.1	61	40	5.99	257	1.37	Overcast day. Recent rain event >50mm. QA's taken here. Water extracted using electric bore pump. Turb measured with Hach meter.	DO% has similar concentrations as March 2025, whilst pH is slightly below WQO's it has remained steady.
3/03/2026 10:08	EPL 91	GFD1 groundwater downstream	17.3	16.9	1.62	247	161	6.8	221	16.1	Overcast day. Recent rain event >50mm.	DO% has similar concentrations as March 2025 and considered ambient.
16/03/2026 13:11	EPL 92	GFD1 groundwater downstream	16.78	63.9	6.2	120	78	6.59	289	219	Cloudy day, not recent rain.	Low DO% aligns with March 2025 and considered ambient.
30/03/2026 12:38	EPL 93	GFD1 groundwater downstream	16.59	12.8	1.25	248	161	7.1	219	647	Water sample light brown in colour No odour	Concentrations of DO% are consistent with March 2025 and considered ambient.
16/03/2026 13:36	EPL 94	GFD1 groundwater downstream	16.22	19.3	1.9	178	116	6.86	179	82.9	Cloudy day, no recent rain	DO% is following a similar trend as this time last year. Turbidity is rising slightly, however remains within historic concentrations. Sample is taken using passive catch sleeve.
3/03/2026 13:02	EPL 95	GFD1 groundwater downstream	17.53	51.4	4.9	890	570	6.11	269	91.7	Overcast day. Recent rain event >50mm. Water extracted using electric bore pump.	Low pH and DO% combined with high EC has been consistently reported at this location and considered background.
3/03/2026 13:18	EPL 96	GFD1 groundwater downstream	17.65	57.9	5.5	900	576	6.88	244	1,000	Overcast day. Recent rain event >50mm. Surrounding area shows signs of holding water at bore entrance. Water orange colour.	EPL96 has been encroached by project works and is in the process of being decommissioned.
3/03/2026 14:05	EPL 97	GFD1 groundwater downstream Yamrangoobilly	17.09	12.4	1.19	498	324	6.48	239	60.2	Overcast day. Recent rain event >50mm.	Low pH and DO% concentrations are report at this location regularly and considered ambient.
1/03/2026 16:14	EPL103	Upstream groundwater monitoring west of the Tantangara emplacement area	12.6	53.1	5.64	40.2	34	4.81	218.9	13.47	Early morning sample. Clear water. Upstream of TSE. Clear sample, small amount of sediment in bottom.	This is an upstream location and not affected by construction works.
21/03/2026 14:39	EPL104	Dowslope groundwater monitoring east of the Tantangara emplacement area	16.6	58.7	5.73	1.2	1	5.65	190.1	8	Clear water, no sediment visible in sample. Following thunderstorms, rain and hail.	Low DO% and pH are reported on a regular basis and is considered background at this location.
21/03/2026 11:48	EPL105	Dowslope groundwater monitoring west of the Tantangara emplacement area	14.8	49	4.97	194.4	157	5.23	228.8	2.99	No sediment. Rain during sampling	Low DO% and pH are reported on a regular basis and is considered background.

EPL 21266 In Situ Water Quality Measurements

EPL Monthly Monitoring March 2026												
7/03/2026 11:35	EPL113	Upstream east monitoring of Ravine Bay emplacement area	19.33	31.5	2.9	129	84	6.14	228	91.9	Clear sunny day. Recent rain event last week. Water is slightly turbid. No odour. No sheen	This is an upgradient location and considered ambient.
7/03/2026 12:03	EPL114	Upstream west monitoring of Ravine Bay emplacement area	21.43	99.8	8.81	381	248	7.14	206	8.6	Clear sunny day. Recent rain event last week. Ongoing liner extension works. Water is clear, no odour.	
7/03/2026 12:51	EPL115	Downstream east monitoring of Ravine Bay emplacement area	21.37	43.5	3.84	408	265	7.67	184	31.2	Clear sunny day. Recent rain event last week. Water is clear, no odour.	Low DO% and high EC are reported on a regular basis and is considered background at this location.
7/03/2026 11:09	EPL116	Downstream west monitoring of Ravine Bay emplacement area	19.4	59.9	5.51	146	95	6.7	180	617	Clear sunny day. Recent rain event last week. Sleeve had to be double dipped for water. Water is turbid, sediment settling at bottom of sleeve. No odour.	Low DO% is reported on a regular basis and is considered background at this location.
7/03/2026 10:45	EPL117	Downstream monitoring of Ravine Bay emplacement area	19.46	18.9	1.74	161	104	6.73	18	38.1	Clear sunny day. Recent rain event last week. Water is clear. Slight sedimentation at the bottom of the sleeve. No odour, no sheen.	Background trends suggest low DO% is ambient at this location.

Note 1: Water Quality Objective values for the Yarrangobilly River and Minor Watercourses refer to the default trigger values for physical and chemical stressors in south-east Australia (upland rivers) that are reported in Tables 3.3.2 and 3.3.3 of ANZECC/ ARMCANZ (2000).

Note 2: Water Quality Objective values for Talbingo Reservoir are the default trigger values for physical and chemical stressors in south-east Australia (freshwater lakes and reservoirs) that are reported in Tables 3.3.2 and 3.3.3 of ANZECC/ ARMCANZ (2000).

Note 3: Water Quality Objective values Treated Water reference the predicted values for physical and chemical stressors from the treatment plant as presented in the Main Works ES.

Note 4: Water Quality Objective values for groundwater reference the default trigger values for physical and chemical stressors in south-east Australia (upland rivers) for pH and electrical conductivity.

**Snowy 2.0 Environmental Protection Licence Water Quality Results**

Monitoring Period	1 - 31 March 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:	Elevated nutrient concentrations continued to be observed in groundwater monitoring wells across the Snowy 2.0 sites during March, particularly in locations within proximity to high activity areas. As previous reported, bores downgradient of the GF01 emplacement area recorded the highest nutrient concentrations, with Total Nitrogen (TN) concentrations of 42,400 µg/L at EPL58 and 45,700 µg/L at EPL95, and Total Phosphorus reaching 1,760 µg/L at EPL93. Elevated TN concentrations were also recorded within locations at the Tantangara PSE Monitoring Zone as EPL105 reported concentrations of 4,900 µg/L. In the Main Yard Monitoring Zone, exceedances of Total Nitrogen were observed with the highest concentration of 15,100 µg/L at EPL87. Ravine Bay reported TN concentrations as greater than WQOs although lower than those recorded at other sites, with a maximum of 400 µg/L at EPL116. Selected metals exceeded WQOs at various locations, particularly Cu, Zn, and Cr. The highest concentrations were recorded downgradient from GF01 emplacement area, including 136 µg/L dissolved copper (EPL95), 68 µg/L dissolved zinc (EPL97), and 18.2 µg/L dissolved chromium (EPL96). Elevated dissolved copper was also observed upstream (east) of the Ravine Bay emplacement area, with 104 µg/L. Low pH values (4.81–5.88), below WQOs, were recorded along the Tantangara emplacement area, decreasing compared to February but consistent with previous monitoring periods. EPL1,2,4 and 25 are sampled on a quarterly basis therefore they were not included during the March period.
Reservoir Water Quality Results:	Elevated faecal coliform concentrations were observed at Talbingo Reservoir, with notable exceedances at EPL10, EPL11, and EPL107 (300–430 CFU/100 mL and up to 8,600 CFU/100 mL, respectively). These results are consistent with seasonal influences, including warmer temperatures and relatively stable water conditions that can promote bacterial persistence and growth. At Tantangara Reservoir, nutrient concentrations, particularly Total Nitrogen (TN) exceeded WQO across multiple sites (EPL28, EPL29, EPL32, EPL38, EPL40, and EPL51) with concentrations up to 1,700 µg/L at EPL51 indicating elevated nutrient availability across the waterbody. Whilst the aforementioned concentrations primarily comprised of Kjeldahl Nitrogen, elevated Ammonia and Phosphorous concentrations within above and below gradient locations indicate a potential ambient condition during the time of sampling. The elevated pH, turbidity and green discolouration across the Monitoring Zone are consistent with increased algal activity typically noted to occur during this time in previous monitoring rounds. Additional sampling will be undertaken in early April to verify the natural cycle is not influenced by any Project activities.
Surface Water Quality Results:	The Yarrangobilly River Monitoring Zone reported reduced levels of DO in locations EPL5, EPL6, EPL8, EPL9, EPL12, EPL14 and EPL15. These concentrations are less than the adopted WQO's. TN concentrations within EPL9, EPL12, EPL15 were comprised entirely of TKN, with concentrations of up to 600 µg/L at EPL15 in excess of the adopted WQO's. Ammonia exceedance concentrations ranged from 20 µg/L at EPL5 to 180 µg/L at EPL15. The concentrations reported within EPL15 are not anticipated to reflect ambient conditions, however further monitoring will be deployed. The GF01 Monitoring Zone reported further elevated nutrient concentrations as EPL24 reported concentrations of 47,200 µg/L whilst 45,100 µg/L was reported within EPL55. Surface water locations at Marica (EPL71) and Ravine Bay (EPL110 and 120) were dry and could not be sampled during March. Due to low water levels within the Tantangara Reservoir, EPL67 has been dry since 2024. Consequently, this location has been consolidated with EPL39, which will serve as the representative monitoring location for establishing ambient water quality conditions for Nungar Creek
Discharge Water Quality Results:	Discharge concentrations were within the adopted criteria.

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

[illegible][illegible]

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

Item	Attribute	Unit	Unit of reporting	Water Quality Standard (mg/l)
pH	pH	unit	1	6.5 - 8.5
	Acidity	mg/l	1	100
	Alkalinity	mg/l	1	100
	Chlorine	mg/l	1	100
	Chlorine Dioxide	mg/l	1	100
Temperature	Temperature	°C	1	10
	Temperature	°C	1	10
	Temperature	°C	1	10
	Temperature	°C	1	10
	Temperature	°C	1	10
Dissolved Oxygen	Dissolved Oxygen	mg/l	1	10
	Dissolved Oxygen	mg/l	1	10
	Dissolved Oxygen	mg/l	1	10
	Dissolved Oxygen	mg/l	1	10
	Dissolved Oxygen	mg/l	1	10
Biomass	Biomass	mg/l	1	10
	Biomass	mg/l	1	10
	Biomass	mg/l	1	10
	Biomass	mg/l	1	10
	Biomass	mg/l	1	10
Sediment	Sediment	mg/l	1	10
	Sediment	mg/l	1	10
	Sediment	mg/l	1	10
	Sediment	mg/l	1	10
	Sediment	mg/l	1	10
Nutrients	Nitrogen	mg/l	1	10
	Phosphorus	mg/l	1	10
	Potassium	mg/l	1	10
	Sulfur	mg/l	1	10
	Sodium	mg/l	1	10
Heavy Metals	Lead	mg/l	1	10
	Cadmium	mg/l	1	10
	Chromium	mg/l	1	10
	Copper	mg/l	1	10
	Zinc	mg/l	1	10
Organic Compounds	Organic Compounds	mg/l	1	10
	Organic Compounds	mg/l	1	10
	Organic Compounds	mg/l	1	10
	Organic Compounds	mg/l	1	10
	Organic Compounds	mg/l	1	10
Microbiology	Microbiology	mg/l	1	10
	Microbiology	mg/l	1	10
	Microbiology	mg/l	1	10
	Microbiology	mg/l	1	10
	Microbiology	mg/l	1	10

[illegible]

Snowy Hydro 2.0 Main Works
Monthly EPL Sampling: 01-31 March 2026 - Talbingo and Tantangara Reservoir

Analyte	Unit	Limit of reporting	Water Quality Objective Value
Field			
pH	pH unit	-	6.5-8
Electrical Conductivity	µS/cm	-	20-30
Oxidation Reduction Potential	mV	-	No Water Quality Objective Value
Temperature	°C	-	No Water Quality Objective Value
Dissolved Oxygen	% saturation	-	90-110
Turbidity	NTU	-	1-20
Laboratory analytes			
Total Suspended Solids	mg/L	5	No Water Quality Objective Value
Hardness as CaCO ₃	mg/L	1	No Water Quality Objective Value
Nutrients			
Ammonia as N	µg/L	10	10
Nitrite + Nitrate as N (NO _x)	µg/L	10	10
Kjeldahl Nitrogen Total	µg/L	100	No Water Quality Objective Value
Nitrogen (Total)	µg/L	100	350
Reactive Phosphorus (filtered)	µg/L	10	5
Phosphorus (Total)	µg/L	10	10
Inorganics			
Cyanide Total	mg/L	0.004	0.007
Hydrocarbons			
Oil and Grease	mg/L	1	No Water Quality Objective Value
Metals			
Aluminium (dissolved)	µg/L	5	55
Arsenic (dissolved)	µg/L	0.2	13
Chromium (III+VI) (dissolved)	µg/L	0.2	0.01
Copper (dissolved)	µg/L	0.5	1.4
Iron (dissolved)	µg/L	2	300
Lead (dissolved)	µg/L	0.1	3.4
Manganese (dissolved)	µg/L	0.5	1,900
Nickel (dissolved)	µg/L	0.5	11
Silver (dissolved)	µg/L	0.01	0.05
Zinc (dissolved)	µg/L	1	8
Biological			
Faecal Coliforms	CFU/100mL	1	No Water Quality Objective Value
Biochemical Oxygen Demand	mg/L	2	No Water Quality Objective Value

EPL10	EPL11	EPL28	EPL29	EPL32	EPL38	EPL39	EPL40	EPL51	EPL107	EPL108	EPL109
01 Mar 2026	01 Mar 2026	18 Mar 2026	18 Mar 2026	18 Mar 2026	18 Mar 2026	15 Mar 2026	18 Mar 2026	18 Mar 2026	18 Mar 2026	01 Mar 2026	01 Mar 2026
7.62	7.7	9.81	9.57	9.6	9.63	6.27	9.94	9.61	7.9	7.58	7.55
86	61	34	32	32	32	29	34	35	41	34	36
200	198	111	134	131	133	215	113	132	223	186	184
23.17	22.99	16.71	17.81	17.7	17.6	16.79	16.85	17.68	21.05	22.69	22.62
82.5	83.3	94.3	92.5	72.1	86.5	93.8	95	83.5	99.7	99.4	94.2
1.1	4.6	43.2	58.2	45.4	50.0	5.8	48.3	39.4	8.3	16.9	21.9
<5	<5	12	13	6	8	<5	14	6	<5	<5	<5
39	22	5	5	5	5	7	5	2	10	10	10
30	20	20	50	70	30	<10	20	150	80	60	20
<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
200	200	1,600	1,500	1,300	700	200	900	1,700	200	200	300
200	200	1,600	1,500	1,300	700	200	900	1,700	200	200	300
<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
<10	20	40	40	50	30	20	30	50	10	10	<10
<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
<5	<5	36	31	26	33	27	36	31	<5	<5	<5
0.6	0.4	0.4	0.4	0.4	0.4	<0.2	0.4	0.4	0.2	0.3	0.3
<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	<0.2	<0.2
<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
32	22	282	170	149	195	115	275	153	9	6	8
<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
<0.5	<0.5	9.4	3.4	2.8	4.0	2.7	9.0	2.8	<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
<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
<1	<1	<1	<1	<1	2	<1	<1	<1	<1	<1	<1
300	430	85	-	-	-	-	-	1	8,600	-	-
2	<2	7	-	-	-	-	-	5	<2	-	-

Snowy Hydro 2.0 Main Works**Monthly EPL Sampling: 01-31 March 2026 - Discharge Water**

Analyte	Unit	Limit of reporting	Water Quality Objective Value*
Flow			
Volume	ML/day	-	4.32
Discharge Flow Rate	Litres per Second	-	50
Field			
pH	pH unit	-	6.5-8.5
Electrical Conductivity	µS/cm	-	700 (EPL 41) / 200 (EPL 50)
Oxidation Reduction Potential	mV	-	No Water Quality Objective Value
Temperature	°C	-	No Water Quality Objective Value
Dissolved Oxygen	% saturation	-	No Water Quality Objective Value
Turbidity	NTU	-	No Water Quality Objective Value
Laboratory analytes			
Total Suspended Solids	mg/L	5	5
Hardness as CaCO3	mg/L	1	No Water Quality Objective Value
Nutrients			
Ammonia as N	µg/L	10	1000
Nitrite + Nitrate as N (NOx)	µg/L	10	No Water Quality Objective Value
Kjeldahl Nitrogen Total	µg/L	100	No Water Quality Objective Value
Nitrogen (Total)	µg/L	100	1500
Reactive Phosphorus	µg/L	1	No Water Quality Objective Value
Phosphorus (Total)	µg/L	10	300
Inorganics			
Cyanide Total	µg/L	4	No Water Quality Objective Value
Hydrocarbons			
Oil and Grease	mg/L	1	2
Metals			
Aluminium (dissolved)	µg/L	5	55
Arsenic (dissolved)	µg/L	0.2	13
Chromium (III+VI) (dissolved)	µg/L	0.2	1
Copper (dissolved)	µg/L	0.5	14
Iron (dissolved)	µg/L	2	300
Lead (dissolved)	µg/L	0.1	3.4
Manganese (dissolved)	µg/L	0.5	1,900
Nickel (dissolved)	µg/L	0.5	11
Silver (dissolved)	µg/L	0.01	0.05
Zinc (dissolved)	µg/L	1	8
Biological			
Faecal Coliforms	CFU/100mL	1	10
Biochemical Oxygen Demand	mg/L	2	3.5

EPL41	EPL50
04 Mar 2026	15 Mar 2026
0.37**	0.64**
<50	<50
7.98	7.02
6	108
189	206
22.58	11.05
63.2	54.7
7.6	2.7
<5	<5
<1	<1
40	60
60	240
<100	200
<100	400
<10	<10
<10	<10
<4	<4
<1.0	<1.0
<5	<5
<0.2	<0.2
<0.2	<0.2
<0.5	<0.5
<2	<2
<0.1	<0.1
<0.5	<0.5
<0.5	<0.5
<0.01	<0.01
<1	<1
1	<1
<2	<2

* Water Quality Objectives are reflective of 90th Percentile Concentration Limits as per Condition L2.4.

** Flow rates recorded via EPL43 and 50

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

Date
1/3/2026
2/03/2026
3/03/2026
4/03/2026
5/03/2026
6/03/2026
7/03/2026
8/03/2026
9/03/2026
10/03/2026
11/03/2026
12/03/2026
13/03/2026
14/03/2026
15/03/2026
16/03/2026
17/03/2026
18/03/2026
19/03/2026
20/03/2026
21/03/2026
22/03/2026
23/03/2026
24/03/2026
25/03/2026
26/03/2026
27/03/2026
28/03/2026
29/03/2026
30/03/2026
31/03/2026

EPL 43	EPL 50
Discharge volume (Megalitres)	
-	-
0.61	0.59
-	0.93
0.37	0.50
0.43	0.45
0.58	0.23
-	0.40
0.32	-
0.41	0.39
-	-
0.39	0.34
-	-
-	-
0.38	0.18
0.55	-
-	0.14
0.32	0.05
-	-
0.45	0.19
-	0.20
0.51	0.19
0.49	-
0.35	0.46
0.57	0.35
-	0.46
-	0.50
-	0.52
0.58	0.51
0.62	0.57
0.19	0.37
-	0.51

EPL 21266 In Situ Water Quality Measurements

EPL Monthly In-Situ Monitoring April 2026

Table 1 - Surface Water Quality Data
River and Minor Watercourses

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	-	50 - 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
25/04/2026 9:40	EPL5	Yarrangobilly River, upstream of the exploratory tunnel and construction pad	8.09	97.5	11.52	137	89	7.77	95	0.9	Sunny day, clear water, no odour, medium flow	This is an upgradient location and not impacted by project activities.
25/04/2026 10:07	EPL6	Wallaces Creek, upstream of Yarrangobilly River and Wallaces Creek confluence	6.62	89.4	10.95	89	58	7.98	109	0.5	Sunny day, clear water, no odour, slow and low flow, no rain	Turbidity is representative of the upgradient location. Low DO% is within the baseline water quality summary in the surface water management plan.
25/04/2026 11:06	EPL8	Yarrangobilly River, downstream of Lick Hole Gully	9.33	104.1	11.93	147	95	7.96	134	0.9	Sunny day, clear water, medium flow, no odour	Turbidity is representative of the upgradient location.
25/04/2026 11:26	EPL9	Yarrangobilly River, downstream of the accommodation camp and upstream of Tallings Reservoir	9.26	101.7	11.68	148	96	8.06	135	0.79	Sunny day, clear water, medium flow, no odour, no rain	Turbidity is representative of the upgradient location. Slightly elevated pH is within the baseline water quality summary in the surface water management plan.
25/04/2026 9:21	EPL12	Yarrangobilly River, immediately downstream of portal pad	8.15	108.3	12.77	178	116	7.9	85	2.5	Sunny day, no rain, clear water, no odor, medium flow, sediment basin F1 overtopping	All parameters fall within the WQO's.
25/04/2026 10:27	EPL14	Yarrangobilly River, downstream of road construction areas	9.14	107.8	12.42	139	90	8.12	110	0.96	Sunny day, clear water, medium flow, a bit turbulent, no odour	Slightly elevated pH is within the baseline water quality summary in the surface water management plan. Turbidity is representative of the upgradient location.
25/04/2026 10:48	EPL15	Yarrangobilly River, downstream of road construction areas	9.25	92.4	10.61	143	93	8.13	122	0.8	Sunny day, clear water, medium flow, no odour, no rain	Elevated pH is within the baseline water quality summary in the surface water management plan. Turbidity is representative of the upstream location.
25/04/2026 11:48	EPL16	Yarrangobilly River, downstream of road construction areas	9.54	109.1	12.44	147	96	8.07	137	0.73	Sunny day, clear water, a bit turbulent, no odour. QAs conducted here	The pH in this location is within the baseline water quality summary in the surface water management plan.
14/04/2026 8:49	EPL24	Yarrangobilly River tributary (Watercourse 2), directly downstream of road	12.48	80.4	8.55	653	418	6.73	213	12.7	Sunny day, rain over last few days, clear water, no odour	DO levels are decreasing while EC is increasing. This was noted last month and continued monitoring will be ongoing.
11/04/2026 13:47	EPL26	Eucumbene River downstream of Marica Road	11.04	92.8	10.21	36	24	7.4	166	0.9	Sunny day, clear water, no odour, slow flow	Marginally lower DO is consistent with previously recorded data such as April 2025. Turbidity requested from ALS.
11/04/2026 13:26	EPL27	Eucumbene River upstream of Marica Road	10.79	85.1	9.43	51	33	7.89	143	15.8	Sunny day, clear water, no odour	This location is upgradient of project activities.
12/04/2026 9:14	EPL30	Kellys Plain Creek, downstream of accommodation camp and laydown areas	6.81	75.6	9.22	55	36	6.82	137	15.1	Cloudy day, slightly rain, slow flow, no odour, clear water	Marginally lower DO is consistent with lower flow streams as referred to in the field notes.
12/04/2026 10:10	EPL31	Kellys Plain Creek, upstream of accommodation camp and laydown areas	8.08	63.8	7.54	31	20	6.79	160	3.4	Cloudy day, slow flow, medium flow, clear water, no odour	This location is upgradient of project activities.
12/04/2026 8:03	EPL33	Murrumbidgee River, downstream of Tantangara reservoir outlet	11.13	69.8	7.67	36	23	6.63	94	18.6	Cloudy, slightly raining, foam in the surface, no odour	Marginally lower DO is consistent with waters originating from algal hosting waters. Foam is potentially a result of flow velocities or release flow velocities.
12/04/2026 7:17	EPL34	Nungar Creek, upstream of Tantangara Road	2.88	86.9	11.74	27	17	7.04	193	16.8	Cloudy day, slightly raining, clear water, no odour	This location is upgradient of project activities.
12/04/2026 7:29	EPL35	Nungar Creek, downstream of Tantangara Road	5.16	69.7	8.86	25.0	16	6.9	95	9.3	Cloudy day, slightly raining, no odour, clear water, slow flow	Marginally lower EC and DO results are indicative of lower flows and are consistent with ambient concentrations previously recorded.
28/04/2026 11:39	EPL 36	Cameron's Creek, upstream of works in Rock Forest	11.16	66.1	7.26	36	23	7.33	159	1.2	Clear day. No recent rain. Water flow and level low. Signs of stock activity around sample point.	This location is upgradient of project activities.

EPL 21266 In Situ Water Quality Measurements

EPL Monthly In-Situ Monitoring April 2026												
28/04/2026 10:55	EPL37	Cameron's Creek, downstream of works in Rock Forest	14.52	68.2	6.94	50	33	7.89	185	2	Clear day. No recent rain. Water flow and level low. Signs of stock around sample point. QA taken here.	Marginally lower EC and DO results are indicative of lower flows and are consistent with ambient concentrations previously recorded.
14/04/2026 14:16	EPL52	GFO1 leachate basin	18.99	71.2	6.57	1,540	984	6.85	170	39.8	Sunny day, turbid water, green water appearance, no odour	This location is a leachate water storage basin. Water quality recorded is reflective of leachate captured during the reporting period.
14/04/2026 14:41	EPL55	GFO1 surface water downstream	18.89	65.7	6.08	1360	871	7.27	158	2.4	Sunny day, clear water, no odour, slow flow	Turbidity requested to ALS. Elevated EC and lower DO results are consistent with the significantly low volume of water sampled during this reporting period.
-	EPL67	Nanger Creek surface water downstream west from Tantangara emplacement area	-	-	-	-	-	-	-	-	-	No sample collected.
11/04/2026 15:06	EPL71	Surface water downstream of Marica emplacement	11.51	81.8	8.9	381	248	6.97	170	198	Sunny day, rain overnight, turbid water, very slow flow	Elevated physicochemical results are consistent with the significantly low volume of water sampled during this reporting period.
-	EPL76	Rock Forest Leachate basin	-	-	-	-	-	-	-	-	-	No sample collected.
26/04/2026 11:48	EPL84	F8 Basin	18.07	80.6	7.6	482	313	8.85	152	415	No recent rain, moderate capacity, no foam sheen or odour. Sample site is EPL 84	This location is a leachate water storage basin. Water quality recorded is reflective of leachate captured during the reporting period.
25/04/2026 9:56	EPL85	MY07 Basin	11.15	90.4	9.92	467	303	8.61	142	1,000	No recent rain. Very full, turbid brown colour, no foam sheen or odour.	This location is a leachate water storage basin. Water quality recorded is reflective of leachate captured during the reporting period.
26/04/2026 12:19	EPL86	LHG01 Basin	17.25	83.2	7.97	1,010	648	8.53	157	98.5	No recent rain, low water level, turbid water no foam sheen or odour	This location is a leachate water storage basin. Water quality recorded is reflective of leachate captured during the reporting period.
14/04/2026 14:13	EPL98	Rock blanket diversion monitoring under GFO1 liner	17.32	62.9	6.01	1,700	1,090	6.12	204	0.3	Sunny day, clear water, algae growing in the surrounding area, no odour	This location is a leachate water storage basin. Water quality recorded is reflective of leachate captured during the reporting period.
25/04/2026 8:06	EPL99	Marica Leachate Basin- Turkey's Nest	9.8	77.3	8.75	467	304	8.43	102	117	Clear day. No recent rain. Water grey / green colour. No odour or sheen.	This location is a leachate water storage basin. Water quality recorded is reflective of leachate captured during the reporting period.
25/04/2026 8:15	EPL100	Marica Lower Leachate Basin USS Shaft	9.07	68.3	7.86	883	565	8.43	115	30.3	Clear day. No recent rain. Water green colour.	This location is a leachate water storage basin. Water quality recorded is reflective of leachate captured during the reporting period.
25/04/2026 8:33	EPL101	Marica Leachate Basin Spoil Pad	9.11	63.7	7.32	996	638	8.6	112	35.9	Clear day. No recent rain. Water green colour.	This location is a leachate water storage basin. Water quality recorded is reflective of leachate captured during the reporting period.
9/04/2026 12:26	EPL106	Ravine Bay Leachate basin 1	18.93	80.2	7.4	2,450	157	7.88	194	89	Recent light rainfall. Sunny weather. Green/yellow turbid colour. Ducks present. No odour or sheen detected.	This location is a leachate water storage basin. Water quality recorded is reflective of leachate captured during the reporting period.
7/04/2026 11:08	EPL110	Upstream monitoring of Ravine Bay emplacement area	-	-	-	-	-	-	-	-	No water flowing	No sample collected.
14/04/2026 12:10	EPL118	Ravine Bay Leachate basin 2	17.91	87.3	8.24	1,820	1,160	8.48	158	3.2	Green colour, no odour, clear, sunny conditions, 90% full	This location is a leachate water storage basin. Water quality recorded is reflective of leachate captured during the reporting period.
14/04/2026 12:18	EPL119	Ravine Bay Leachate basin 3	16.62	70.7	6.86	1,570	1,010	8.49	159	3.1	Green colour, no odour, algae present, sunny conditions, recent rainfall, clear	This location is a leachate water storage basin. Water quality recorded is reflective of leachate captured during the reporting period.
14/04/2026 12:20	EPL120	Ravine Bay leachate basin 4	-	-	-	-	-	-	-	-	Unable to collect sample as the basin level is too low to safely sample	No sample collected.
14/04/2026 9:13	EPL122	GFO1 Drainage Line (Formerly EPL 55b)	12.77	103.1	10.89	666	427	7.15	203	13.9	Sunny day, rain over last few days, clear water, no odour.	Lower water levels and potential disturbance during sampling is understood to contribute to the elevated EC concentrations.

Table 2 - Reservoir Water Quality Data
Tabbingo and Tantangara Reservoirs

Table 4 - Reservoir Water Quality Data Tabbingo and Tontangora Reservoirs			Water Quality Objectives									
			Temp (°C)	DO (%)	DO (mg/L)	EC (µS/cm)	TDS (mg/L)	pH	Redox (mV)	Turbidity (NTU)		
			20 - 30	-	-	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
15/04/2026 10:08	EPL10	Tabbingo Reservoir, downstream of road works and upstream of water intake point	18.28	92.7	8.73	56	37	7.51	161	1.6	Clear sunny day, slight sheen, no odour, turbidity <0.1 NTU	Turbidity analysis performed by an external laboratory.
15/04/2026 9:45	EPL11	Tabbingo Reservoir, downstream of outlet	18.58	93.2	8.72	56	36	7.67	152	2.1	Clear sunny day, no odour or sheen, turbidity <0.1 NTU	Turbidity analysis performed by an external laboratory.

EPL 21266 In Situ Water Quality Measurements**EPL Monthly In-Situ Monitoring April 2026**

29/04/2026 9:10	EPL28	Tantangara Reservoir, upstream of works in the mouth of the Murrumbidgee River	9.55	80.1	9.14	29	19	7.56	199	9.9	Sunny day, organic material in the surface, no odour	Algal presence is understood to influence the lower DO record.
29/04/2026 9:41	EPL29	Tantangara Reservoir, downstream of works area and upstream of lower Murrumbidgee River	11.65	83.5	9.07	27	18	7.6	204	3.9	Sunny day, no odour, organic material in the surface, presence of algae	Algal presence is understood to influence the lower DO record.
29/04/2026 9:33	EPL32	Tantangara Reservoir, Tantangara Intake. Downstream of construction works	11.63	78.9	8.57	28	18	7.44	208	2.5	Sunny day, no rain, organic material in the surface, presence of algae, no odour, QAs at this location	Algal presence is understood to influence the lower DO record.
29/04/2026 8:58	EPL38	Tantangara Reservoir, variable location dependent on tide and reservoir levels. Between the emplacement area and the ancillary facilities for emplacement activities	10.58	73.4	8.18	31	20	7.71	170	50.3	Sunny day, no rain, bit turbid water, organic particles suspended in the water, no odour	Algal presence is understood to influence the lower DO record.
25/04/2026 12:15	EPL39	Confluence of Nungah Creek and Tantangara Reservoir, variable location dependent on tide and reservoir levels. Upstream of Tantangara construction works	13.53	77.1	8.03	25	16	6.31	182	2.04	Clear day. No recent rain. No odour or sheen. Low flow and level. Signs of hard hooved animals around sample point. Turbidity measured with flash meter	Lower DO and pH consistent with lower water levels and the previously recorded conditions within this confluence area.
29/04/2026 9:13	EPL40	Confluence of the upper Murrumbidgee River and Tantangara Reservoir, variable location dependent on tide and reservoir levels. Upstream of works	9.71	83.8	9.53	29	19	7.43	208	7.5	Sunny day, no odour, organic material in the surface, the water level in the reservoir remains low	Algal presence is understood to influence the lower DO record.
29/04/2026 9:47	EPL51	Tantangara Reservoir, downstream of Tantangara STP/PWTP diffuser outlet	11.44	78.2	8.53	31	20	7.66	204	3.3	Sunny day, no odour, organic material in the water, reservoir remains low level, no rain	physicochemical records consistent with upgradient locations such as EPL39.
15/04/2026 9:03	EPL107	Upstream monitoring of Ravine Bay emplacement area within Yarrangobilly River	17.91	86.0	8.15	43	28	7.63	146	1.6	Clear sunny day, no odour or sheen, no algae, clear - turbidity <0.1 NTU, QA_TALRES_1/2 sampled at location	Turbidity requested to ALS
15/04/2026 8:55	EPL108	Monitoring of Ravine Bay emplacement area (center of PSE) within Yarrangobilly River	18.01	90	8.52	36	24	7.77	136	0.9	Clear sunny day, no odour or sheen, no algae, turbidity <0.1 NTU	Turbidity requested to ALS
15/04/2026 8:47	EPL109	Upstream monitoring of Ravine Bay emplacement area within Yarrangobilly River	17.87	88.6	8.4	37	24	7.88	117	0.1	Clear sunny day, no odour or sheen, no algae, clear	Location reflective of ambient conditions recorded within Reservoir locations EPL107 and EPL108.

Table 3 - Treated Water Quality Data

Tabbings																	
			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
12/04/2026 9:16			EPL41		Lobs Hole STP/PWTP Final Effluent Quality Monitoring Point. Downstream of final treatment, prior to discharge to Tabbings Reservoir.			17.16	100.7	9.7	7	5	6.77	235	19.4	QA_LOB_1 and QA_LOB_2 collected here, clear, no odour or sheen, not turbid, recirculating in progress	Physicochemical records within WQO's.

Table 4 - Treated Water Quality Data

Tantangara			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
12/04/2026 9:52	EPL50	Tantangara STP/PWTP Final Effluent Quality Monitoring Point. Downstream of final treatment, prior to discharge to Tantangara Reservoir.	10.26	87.3	9.79	116	76	6.87	138	5.4	Clear water, no odour, QAs conducted QA_Tan_1 and QA_Tan_2	Physicochemical records within WQO's.

Table 5 - Groundwater Quality Data

Lobs Hole, Tantangara, Morice and Rock Forest			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
-	EPL1	Wallace Creek Bridge, west of ECVT portal	-	-	-	-	-	-	-	-	-	This point is sampled on quarterly basis therefore it was not included during the April period.
-	EPL2	Wallace Creek Bridge, West of ECVT portal	-	-	-	-	-	-	-	-	-	This point is sampled on quarterly basis therefore it was not included during the April period.
25/04/2026 9:32	EPL4	Lobs Hole Portal Access, west of MAT portal	-	-	-	-	-	-	-	-	Sample point under water not representative for sampling	No sample collected.
25/04/2026 9:30	EPL25	Monitoring well, downslope of MAT portal	-	-	-	-	-	-	-	-	Sample location under water no representative for sampling	No sample collected.

EPL 21266 In Situ Water Quality Measurements

EPL Monthly In-Situ Monitoring April 2026												
14/04/2026 10:13	EPL56	GF01 groundwater upstream east	15.3	107.7	10.79	244	159	6.66	218	28	Sunny day, rain over few days, no odour, clear water	Location is understood to interact with the final GF01 design is does not reflect upgradient conditions.
14/04/2026 10:30	EPL57	GF01 groundwater upstream west	15.09	47.3	4.75	272	177	7.35	190	30.9	Sunny day, clear water, no odour, spoil placement very close to the well	Location is understood to interact with the final GF01 design is does not reflect upgradient conditions.
14/04/2026 13:57	EPL58	GF01 groundwater downstream	18.71	80.1	7.45	964	617	6.02	203	11	Sunny day, clear water, no odour	Groundwater conditions are consistent with influences originating from GF01.
11/04/2026 14:28	EPL64	Marica groundwater downgradient of the TSE	10.57	21	2.34	442	287	6.56	163	26.5	Rain overnight, a bit turbid, no odour, spoil has been placed around the well	Depth to groundwater from TOC [m] went from 7.98 m on the 11 of April to 17.73 m on the 28 of April.
11/04/2026 14:52	EPL65	Marica groundwater downgradient of the TSE	-	-	-	-	-	-	-	-	Low water level, thus not representative for sampling.	Bore checked again on 25 and 28 April. No water was available for sampling.
11/04/2026 15:27	EPL66	Marica groundwater downgradient of the TSE	11.04	30.7	3.39	93	61	5.5	326	69.3	Sunny day, rain overnight, odour detected, a bit turbid water	Depth to groundwater from TOC [m] went from 15.32 m on the 11 of April to 36.45 m on the 28 of April.
25/04/2026 12:39	EPL68	Tantangara groundwater downstream West	14.32	54	5.52	20	13	5.44	233	3.41	Clear day. No recent rain. Water clear. QA taken here. Turb measured with Hach meter.	Low pH consistent with previously established ambient conditions. Low DO and EC potentially consistent with extended water residence periods.
25/04/2026 12:53	EPL69	Tantangara groundwater downstream East	15.24	34.9	350	52	34	5.12	230	96.9	Clear day. No recent rain. Water yellowy colour.	Low pH consistent with previously established ambient conditions. Low DO and EC potentially consistent with extended water residence periods.
25/04/2026 11:09	EPL70	Tantangara groundwater upstream	13.19	60.8	6.37	386	251	3.44	353	55.5	Clear day. No recent rain. Waterlight yellowy colour in skewe.	Low pH is potentially determined by sampling collection error / passive sleeve deployment issue. Resampling to occur within the week.
11/04/2026 14:04	EPL72	Marica groundwater upstream	10.29	61.7	6.92	94	61	5.81	235	115	Rain overnight, a bit turbid water, no odour.	Elevated turbidity potentially reflective of rainwater ingress through the underlying formation.
24/04/2026 12:38	EPL80	Lick Hole Gully groundwater upstream	18.97	33.2	3.08	920	589	6.94	32	214	Turbid water, no recent rain, no foam sheen or odour	Location is up gradient of Project works.
27/04/2026 9:29	EPL81	Lick Hole Gully groundwater downstream	14.31	29.3	2.99	898	575	6.7	-33	233	Clear day. No recent rain. Water yellowy orange colour. Electric bore pump used.	Physicochemical results likely disturbed by the sampling method which included utilising a footvalve close to the sediment laden well bottom.
24/04/2026 13:12	EPL82	Main Yard groundwater upstream	19.77	19.3	1.75	2,760	1,76	6.63	-63	61	No recent rain, no nearby works slight sulphide odour, no foam sheen. Slightly turbid	Location is up gradient of Project works.
24/04/2026 11:36	EPL83	Main Yard groundwater downstream	17.2	24.5	2.35	782	501	6.97	131	35	No recent rain, no nearby works slightly turbid, no foam sheen or odour	Elevated EC and low DO consistent with the naturally occurring salinity within the Lick Hole Gully / Main Yard Monitoring Zone.
24/04/2026 10:53	EPL87	Main Yard groundwater downstream	16.68	36.8	3.57	1020	655	6.87	119	231	No recent rain turbid water, no nearby works, no foam sheen or odour. QA_LOBS_1 taken here	Physicochemical conditions reflective of downgradient location potentially influenced by alterations to receiving environment.
24/04/2026 10:57	EPL88	Main Yard groundwater downstream	17.34	32.8	3.14	933	597	6.8	-50	4.3	Relatively clear no nearby works, no recent rain, no foam sheen or odour	Elevated EC and low DO consistent with the naturally occurring salinity within the Lick Hole Gully / Main Yard Monitoring Zone.
24/04/2026 12:14	EPL89	Lick Hole Gully groundwater downstream	17.68	34.7	3.3	351	228	7.24	135	139	No recent rain, no nearby works, no foam sheen or odour. Turbid water	Physicochemical results likely disturbed by the sampling method which included utilising a footvalve close to the sediment laden well bottom.
14/04/2026 9:55	EPL90	GF01 groundwater downstream	17.24	92.8	8.9	343	223	5.82	252	7	Sunny day, clear water, no odour	Groundwater conditions consistent with influences originating from the GF01 emplacement area. Location currently managed through remedial management processes.
14/04/2026 9:32	EPL91	GF01 groundwater downstream	14.5	31.3	3.18	257	167	6.72	228	13.1	Sunny day, rain over last few days, clear water, no odour	Groundwater conditions consistent with influences originating from the GF01 emplacement area. Location currently managed through remedial management processes.

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15/04/2026 8:00	EPL 92	GF01 groundwater downstream	13.38	50.4	5.27	143	93	6.64	435	140	Clear day, no rain, no odour.	Groundwater conditions consistent with influences originating from the GF03 emplacement area. Location currently managed through remedial management processes.
15/04/2026 8:25	EPL 93	GF01 groundwater downstream	13.76	32.8	3.39	243	158	7.08	392	68.8	Clear day, no rain, no odour.	Groundwater conditions consistent with influences originating from the GF03 emplacement area. Location currently managed through remedial management processes.
15/04/2026 8:43	EPL 94	GF01 groundwater downstream	14.69	28.8	2.92	173	112	6.79	148	93	Clear day, no rain, no odour, clear water	Groundwater conditions consistent with influences originating from the GF03 emplacement area. Location currently managed through remedial management processes.
14/04/2026 13:50	EPL 95	GF01 groundwater downstream	18.78	21.1	1.96	695	445	6.33	206	126	Sunny day, clear water, no odour.	Groundwater conditions consistent with influences originating from the GF03 emplacement area. Location currently managed through remedial management processes.
15/04/2026 8:58	EPL 97	GF01 groundwater downstream	15.21	25.6	2.57	486	316	6.5	120	23.7	Clear day, no rain, sulfuric smell.	Groundwater conditions consistent with influences originating from the GF03 emplacement area. Location currently managed through remedial management processes.
25/04/2026 11:34	EPL103	Upstream groundwater monitoring west of the Tantangara emplacement area	15.24	47.3	4.74	45	29	5.48	221	2.8	Clear day. No recent rain. Water clear. No odour	Low pH and DO consistent with established ambient physicochemical conditions throughout the Tantangara PSE.
25/04/2026 13:03	EPL104	Downslope groundwater monitoring east of the Tantangara emplacement area	15.13	44	4.42	51	33	5.59	215	10	Clear day. No recent rain.	Low pH and DO consistent with established ambient physicochemical conditions throughout the Tantangara PSE.
25/04/2026 11:57	EPL105	Downslope groundwater monitoring west of the Tantangara emplacement area	15.05	43.4	4.37	190	123	5.4	232	18.1	Clear day. No recent rain. No odour.	Low pH and DO consistent with established ambient physicochemical conditions throughout the Tantangara PSE.
24/04/2026 12:01	EPL113	Upstream east monitoring of Ravine Bay emplacement area	13.29	50	5.23	124	81	6.11	216	106	Sunny day, clear water, no odour	Location is up gradient of Project works.
24/04/2026 11:34	EPL114	Upstream west monitoring of Ravine Bay emplacement area	13.98	13	1.34	337	219	6.89	140	61.7	Clear water, sunny day, no odour.	Location is up gradient of Project works.
24/04/2026 12:16	EPL115	Downstream east monitoring of Ravine Bay emplacement area	14.55	20.3	2.06	317	206	7.03	177	31.4	Sunny day, clear water, no odour.	Location is subject to investigation via TARP processes.
24/04/2026 11:15	EPL116	Downstream west monitoring of Ravine Bay emplacement area	15.27	60.2	6.03	109	71	6.55	108	1,000	Sunny day, turbid water, sediment throughout the sleeve, odour.	Location is subject to investigation via TARP processes.
24/04/2026 10:56	EPL117	Downstream monitoring of Ravine Bay emplacement area	15.64	32.5	3.23	155	101	6.86	-39	17.9	Sunny day, clear water, no odour.	Location is subject to investigation via TARP processes.
28/04/2026 11:59	EPL123	Upgradient west of the Rock Forest PSE	13.54	49.4	5.14	24	16	6.49	222	574	Clear day. No recent rain. Water orange colour. Sediment in base of sleeve.	Location is up gradient of Project works.
28/04/2026 12:11	EPL124	Upgradient (NE) of the Rock Forest PSE	14.24	63.5	6.51	24	16	5.89	245	1000	Clear day. No recent rain. Water orange colour. Sediment in base of sleeve.	Location is up gradient of Project works.
28/04/2026 11:26	EPL125	Downgradient (S) of the Rock Forest PSE	14.12	42.2	4.33	99	64	7.1	139	91.1	Clear day. No recent rain. Water orange yellow at base of sleeve.	No placement activities occurring on site, colouration consistent with heavy metal enriched formations.
28/04/2026 11:11	EPL126	Downgradient (SE) of the Rock Forest PSE	13.15	32.2	3.38	346	225	7.71	109	935	Clear day. No recent rain. Signs of stock activity near sample point. Water milky colour in sleeve.	No placement activities occurring on site, colouration consistent with heavy metal enriched formations. Livestock activity noted within proximity to location.
28/04/2026 10:46	EPL127	Downgradient of the Rock Forest PSE.	12.37	44.6	4.76	195	127	7.43	183	89	Clear day. No recent rain. Signs of stock around sample point. Yellowy sediment at base of sleeve.	No placement activities occurring on site, colouration consistent with heavy metal enriched formations. Livestock activity noted within proximity to location.

**Snowy 2.0 Environmental Protection Licence Water Quality Results**

Monitoring Period	1 - 30 April 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

SUMMARY	
Groundwater Water Quality Results:	EPL1 and EPL2 are sampled on a quarterly basis and were therefore not included in the April monitoring period. EPL4 and EPL25 are also sampled quarterly. These locations were inspected during the April monitoring event, however both sample points were under water and therefore not considered representative for sampling.
Reservoir Water Quality Results:	Faecal coliform concentrations at both reservoirs have decreased compared to previous months, consistent with seasonal influences and the expected decline associated with lower water temperatures. No exceedances of metal concentrations were recorded at any of the Tantangara or Talbingo reservoir monitoring points. Nutrient concentrations at Talbingo Reservoir were generally within WQOs, with the exception of total phosphorus at EPL10, which recorded a concentration of 20 µg/L. In contrast, nutrient concentrations in Tantangara Reservoir, particularly total nitrogen (TN), exceeded WQOs across multiple sites (EPL28, EPL29, EPL32, EPL38, EPL40, and EPL51), with concentrations reaching up to 900 µg/L at EPL29, EPL32, and EPL38. These elevated TN levels were primarily comprised of Total Kjeldahl Nitrogen, and a noticeable reduction in concentrations was observed compared to the March monitoring period. Similarly, Tantangara pH values have returned to within WQO limits, confirming that the elevated pH levels recorded in March were likely associated with the natural seasonal variability of the reservoir.
Surface Water Quality Results:	Surface water concentrations were notably varied between the numerous Monitoring Zones throughout the reporting period. The Yarrangobilly Monitoring Zone was noted to comprise elevated Phosphorous concentrations within the above gradient location before increasing at EPL15 (80 µg/ L) before reducing to 30 µg/ L within EPL 9 further downstream. EPL24 was noted to report elevated concentrations of nutrient compounds reflective of the downgradient influences stemming from GF01 emplacement. EPL33 was notably elevated for dissolved Aluminium (38 µg/ L) to which the location is subject to review. Marica TSE Monitoring Zone reported elevated concentrations of nutrients within EPL71, most notably TN concentrations of 7,000 µg/ L. A subsequent review of the location found that the stagnant water and extremely low location volume contributed to the disturbance of sediments within the sample column. The Water Sampling Procedure will be updated to reflect the lesson learning as a result.
Discharge Water Quality Results:	Discharge concentrations were within the EPL 90 percentile limits.

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Snowy Hydro 2.0 Main Works
Monthly EPL Sampling: 01 - 30 April 2026 - Talbingo and Tantangara Reservoir

Analyte	Unit	Limit of Reporting	Water Quality Objectives
Field			
pH	pH Unit	-	6.5-8
Electrical Conductivity	µS/cm	-	20-30
Oxidation Reduction Potential	mV	-	No Water Quality Objective Value
Temperature	°C	-	No Water Quality Objective Value
Dissolved Oxygen	% saturation	-	90-110
Turbidity	NTU	-	1-20
Laboratory analytes			
Total suspended solids	mg/L	5	No Water Quality Objective Value
Hardness as CaCO ₃	mg/L	1	No Water Quality Objective Value
Nutrients			
Ammonia as N	µg/L	10	10
Kjeldahl Nitrogen Total	µg/L	100	No Water Quality Objective Value
Nitrate (as N)	µg/L	10	No Water Quality Objective Value
Nitrite (as N)	µg/L	10	No Water Quality Objective Value
Nitrogen (Total)	µg/L	100	350
Reactive Phosphorus	µg/L	10	5
Phosphorus (Total)	µg/L	10	10
Inorganics			
Cyanide Total	µg/L	4	7
Hydrocarbons			
Oil and Grease	mg/L	1	No Water Quality Objective Value
Metals			
Aluminium (total)	µg/L	5	No Water Quality Objective Value
Aluminium (dissolved)	µg/L	5	55
Arsenic (dissolved)	µg/L	0.2	13
Calcium (dissolved)	µg/L	1000	No Water Quality Objective Value
Chromium (III+VI) (total)	µg/L	0.2	No Water Quality Objective Value
Chromium (III+VI) (dissolved)	µg/L	0.2	0.01
Copper (dissolved)	µg/L	0.5	1.4
Iron (total)	µg/L	2	No Water Quality Objective Value
Iron (dissolved)	µg/L	2	300
Lead (dissolved)	µg/L	0.1	3.4
Magnesium (dissolved)	µg/L	1000	No Water Quality Objective Value
Manganese (total)	µg/L	0.5	No Water Quality Objective Value
Manganese (dissolved)	µg/L	0.5	1,900
Nickel (dissolved)	µg/L	0.5	11
Zinc (dissolved)	µg/L	1	8
Biological			
Biochemical Oxygen Demand	mg/L	2	No Water Quality Objective Value
Chlorophyll a	µg/L	1	No Water Quality Objective Value
Faecal Coliforms	CFU/100mL	1	No Water Quality Objective Value
Organic			
Dissolved Organic Carbon	mg/L	1	No Water Quality Objective Value

EPL10	EPL11	EPL28	EPL29	EPL32	EPL38	EPL39	EPL40	EPL51	EPL107	EPL108	EPL109
15/04/2026	15/04/2026	29/04/2026	29/04/2026	29/04/2026	29/04/2026	25/04/2026	29/04/2026	29/04/2026	15/04/2026	15/04/2026	15/04/2026
7.51	7.67	7.56	7.6	7.44	7.71	6.31	7.43	7.66	7.63	7.77	7.88
56	56	29	27	28	31	25	29	31	43	36	37
161	152	199	204	208	170	182	208	204	146	136	117
18.28	18.58	9.55	11.65	11.63	10.58	13.53	9.71	11.44	17.91	18.01	17.87
92.7	93.2	80.1	83.5	78.9	73.4	77.1	83.8	78.2	86	90	88.6
1.6	2.1	9.9	3.9	2.5	50.3	2.04	7.5	3.3	1.6	0.9	0.1
<5	<5	8	<5	<5	<5	<5	9	<5	<5	<5	<5
26	26	9	9	9	9	7	9	9	17	14	14
<10	<10	90	250	260	230	<100	110	290	10	<10	<10
300	200	400	900	800	900	<100	500	800	200	200	200
10	20	20	30	60	40	40	20	40	20	<10	<10
<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
300	200	400	900	900	900	<100	500	800	200	200	200
<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
20	<10	90	40	70	50	<10	60	50	<10	<10	<10
<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
41	57	273	93	113	106	153	306	92	43	39	32
5	6	29	46	45	45	13	31	46	<5	<5	<5
0.4	0.4	0.3	0.4	0.4	0.4	<0.2	0.3	0.4	0.3	0.3	0.3
7,000	7,000	2,000	2,000	2,000	2,000	1,000	2,000	2,000	5,000	4,000	4,000
<0.2	<0.2	0.4	<0.2	<0.2	<0.2	0.3	0.4	<0.2	<0.2	<0.2	<0.2
<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
68	98	592	315	350	316	174	656	318	55	37	38
21	16	245	185	180	186	68	257	183	15	11	11
<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2,000	2,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
5.4	5.5	71.2	39.4	41.9	39.5	3.3	75.2	40.4	5.0	3.5	3.6
1.2	<0.5	55.5	2.6	4.4	7.5	1.2	55.8	2.6	0.5	<0.5	<0.5
<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
<1	1	1	<1	<1	<1	<1	<1	<1	<1	<1	<1
<2	2	4						2			
3	1	4	11	15	16	<1	5	18	<1	<1	<1
21	22	10						<1			
2	2	3	4	4	4	2	4	4	3	2	2

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**Snowy Hydro 2.0 Main Works****Monthly EPL Sampling: 01 - 30 April 2026 - Discharge Water**

Analyte	Unit	Limit of Reporting	Water Quality Objectives / EPL Discharge Limits*	EPL 41 12/04/2026	EPL 50 12/04/2026
Field					
pH	pH Unit	-	6.5-8.5	6.77	6.87
Electrical Conductivity	µS/cm	-	700 (EPL 41) / 200 (EPL 50)	7	116
Oxidation Reduction Potential	mV	-	No Water Quality Objective Value	235	138
Temperature	°C	-	No Water Quality Objective Value	17.16	10.26
Dissolved Oxygen	% saturation	-	No Water Quality Objective Value	100.7	87.3
Turbidity	NTU	-	1-20	19.4	5.4
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	mg/L	0.01	1*/2**	0.01	0.07
Kjeldahl Nitrogen Total	mg/L	0.1	No Water Quality Objective Value	0.10	0.20
Nitrate (as N)	mg/L	0.01	No Water Quality Objective Value	0.19	0.86
Nitrite (as N)	mg/L	0.01	No Water Quality Objective Value	<0.01	<0.01
Nitrogen (Total)	mg/L	0.1	1.5*/3**	0.3	1.1
Reactive Phosphorus	mg/L	0.01	No Water Quality Objective Value	<0.01	<0.01
Phosphorus (Total)	mg/L	0.01	0.3*/0.5**	<0.01	0.01
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 (total)	µg/L	5	No Water Quality Objective Value	<5	<5
Aluminium (dissolved)	µg/L	5	No Water Quality Objective Value	<5	<5
Arsenic (dissolved)	µg/L	0.2	No Water Quality Objective Value	<0.2	0.4
Calcium (total)	µg/L	1000	No Water Quality Objective Value	<1,000	<1,000
Calcium (dissolved)	µg/L	1000	No Water Quality Objective Value	<1,000	<1,000
Chromium (III+VI) (total)	µg/L	0.2	No Water Quality Objective Value	<0.2	1.8
Chromium (III+VI) (dissolved)	µg/L	0.2	No Water Quality Objective Value	<0.2	1.7
Copper (dissolved)	µg/L	0.5	No Water Quality Objective Value	<0.5	<0.5
Iron (total)	µg/L	2	No Water Quality Objective Value	<2	4
Iron (dissolved)	µg/L	2	No Water Quality Objective Value	<2	<2
Lead (dissolved)	µg/L	0.1	No Water Quality Objective Value	<0.1	<0.1
Magnesium (total)	µg/L	1000	No Water Quality Objective Value	<1,000	<1,000
Magnesium (dissolved)	µg/L	1000	No Water Quality Objective Value	<1,000	<1,000
Manganese (total)	µg/L	0.5	No Water Quality Objective Value	<0.5	<0.5
Manganese (dissolved)	µg/L	0.5	No Water Quality Objective Value	<0.5	<0.5
Nickel (dissolved)	µg/L	0.5	No Water Quality Objective Value	<0.5	<0.5
Zinc (dissolved)	µg/L	1	No Water Quality Objective Value	<1	<1
Biological					
Biological Oxygen Demand	mg/L	2	3.5*/5**	<2	<2
Chlorophyll a	µg/L	1	No Water Quality Objective Value	<1	<1
Faecal Coliforms	CFU/100mL	1	10*/100**	<1	<1
Organic					
Dissolved Organic Carbon	mg/L	1	No Water Quality Objective Value	<1	<1

* EPL Discharge Limits, 90 Percentile Concentration Limit as per EPL 21266

** EPL Discharge Limits, 100 Percentile Concentration Limits as per EPL 21266

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Snowy Hydro 2.0 Main Works
Monthly EPL Sampling: 01 - 30 April 2026 - Discharge
Volumes

	EPL 43	EPL 50
Date	Discharge volume (Megalitres)	
1/04/2026	0.16	0.41
2/04/2026	-	0.51
3/04/2026	0.69	-
4/04/2026	-	0.44
5/04/2026	0.44	0.44
6/04/2026	-	0.49
7/04/2026	0.32	0.45
8/04/2026	-	0.22
9/04/2026	0.61	0.22
10/04/2026	0.58	0.58
11/04/2026	0.73	0.46
12/04/2026	-	0.36
13/04/2026	0.58	0.45
14/04/2026	0.44	0.31
15/04/2026	-	-
16/04/2026	0.40	0.36
17/04/2026	0.45	0.26
18/04/2026	0.59	0.18
19/04/2026	0.61	0.40
20/04/2026	-	0.37
21/04/2026	-	-
22/04/2026	0.48	0.54
23/04/2026	-	0.08
24/04/2026	-	-
25/04/2026	0.38	0.26
26/04/2026	-	0.57
27/04/2026	0.37	-
28/04/2026	-	0.31
29/04/2026	0.51	0.38
30/04/2026	-	0.40

EPL 21266 In Situ Water Quality Measurements

EPL Monthly In-Situ Monitoring April 2026

Table 1 - Surface Water Quality Data
River and Minor Watercourses

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
23 May 2026, 8:14 AM	EPL5	Yarrangobilly River, upstream of the exploratory tunnel and construction pad	7.7	71.4	8.52	71	46	6.81	201	10	Sunny day, cold day, no recent rain, clear water, no odor, medium flow	This is an upgradient location and not impacted by project works
23 May 2026, 8:51 AM	EPL6	Wallaces Creek, upstream of Yarrangobilly River and Wallaces Creek confluence	6.26	95.7	11.83	44	29	7.48	217	6.5	cold day, slow flow clear water, no odor	All parameters are within the WQO's
23 May 2026, 9:59 AM	EPL8	Yarrangobilly River, downstream of Lick Hole Gully	8	97.7	11.56	89	58	7.57	227	15.4	Sunny day, medium flow, clear water, no odor	All parameters are within the WQO's
23 May 2026, 10:22 AM	EPL9	Yarrangobilly River, downstream of the accommodation camp and upstream of Talbingo Reservoir	7.17	93.4	11.29	76	50	7.73	224	5.2	Sunny day, clear water, foam on the surface, no odor, medium flow	All parameters are within the WQO's
23 May 2026, 8:30 AM	EPL12	Yarrangobilly River, immediately downstream of portal pad	7.16	99.1	12.16	71	46	7.16	204	6.8	Cold day, no recent rain, a bit foam on the surface, no odor, clear water	All parameters are within the WQO's
23 May 2026, 9:13 AM	EPL14	Yarrangobilly River, downstream of road construction areas	6.67	79.7	9.75	69	45	7.46	217	10	Sunny day, clear water, slow flow, no odor	Low DO% is within the range of the baseline water quality results in the surface water management plan.
23 May 2026, 9:36 AM	EPL15	Yarrangobilly River, downstream of road construction areas	7.31	80.8	9.73	71	46	7.57	220	7.1	Seny day, slow flow, a bit of foam on the surface, odor, clear water	Low DO% is within the range of the baseline water quality results in the surface water management plan.
23 May 2026, 10:41 AM	EPL16	Yarrangobilly River, downstream of road construction areas	7.21	102.9	12.43	76	49	7.94	217	6.9	Sunny day, clear water, no odor, medium flow, a bit turbulent, QAs conducted here	All parameters are within the WQO's
16 May 2026, 2:32 PM	EPL24	Yarrangobilly River tributary (Watercourse 2), directly downstream of road	15.4	54.2	5.4	421	274	7.44	235	17.3	Clear day. No recent rain. Water lightly milky in colour. Low level. Medium flow.	These results are consistent with previous sampling rounds.
9 May 2026, 8:16 AM	EPL26	Eucumbene River downstream of Marica Road	5.38	63.5	8.03	17	11	8.49	185	4.9	Clear day, no raining, medium water level and fast flow, clear water, no odour, signs of animal activity.	These results are consistent with the upstream location.
9 May 2026, 7:58 AM	EPL27	Eucumbene River upstream of Marica Road	5.73	57.0	7.15	17	11	8.67	180	2	Clear day, no raining, no odour, fast flow, medium water level, clear water. QAs collected here.	This is an upgradient location and not impacted by project works.
17 May 2026, 8:48 AM	EPL30	Kellys Plain Creek, downstream of accommodation camp and laydown areas	6.7	56.1	6.86	25	16	7.84	215	12.7	Foggy morning. No recent rain. Water level and flow medium. Signs of hard hooved animal activity at sample location.	These results are consistent with the upstream location.
17 May 2026, 8:34 AM	EPL31	Kellys Plain Creek, upstream of accommodation camp and laydown areas	6.8	57.3	6.99	20	13	7.87	216	4.2	Foggy morning. No recent rain. Signs of hard hooved animal activity near sample point. Water level and flow medium.	This is an upgradient location and not impacted by project works.
17 May 2026, 7:48 AM	EPL33	Murrumbidgee River, downstream of Tantangara reservoir outlet	9.51	52.5	6	20	13	7.93	208	10.3	Foggy morning. No recent rain. Reservoir discharging at time of sample collection. Algal growth at bed of stream.	Parameters are similar to the upgradient reservoir locations. Algal growth has been noted in the field observations
17 May 2026, 7:08 AM	EPL34	Nungar Creek, upstream of Tantangara Road	6.3	59.7	7.37	31	20	8.36	191	6.1	Foggy morning. No recent rain. Medium flow and level. Signs of hard hooved animal activity near sample point. Algal growth in stream bed.	This is an upgradient location and not impacted by project works
17 May 2026, 7:15 AM	EPL35	Nungar Creek, downstream of Tantangara Road	5.94	78.7	9.81	13.0	9	8.12	193	3.8	Foggy morning. No recent rain. No odour or sheen. Signs of hard hooved animal activity near sample point. Algal growth at bed of stream. Water level and flow medium.	The parameters are consistent with the upgradient location and historical results.
9 May 2026, 9:36 AM	EPL36	Cameron's Creek, upstream of works in Rock Forest	7.38	66.2	7.96	27	17	7.87	199	25.5	Clear day, no rain, no flow, no odour, no sheen, signs of animal activity	This is an upgradient location and not impacted by project works
9 May 2026, 9:53 AM	EPL37	Cameron's Creek, downstream of works in Rock Forest	8.02	76.9	9.1	52	34	7.71	185	5.6	Clear day, no rain, low water level, slow flow, clear water, no odour, signs of animal activity. QAs collected here.	Low DO% has been recorded at this location over the last 12 months.
23 May 2026, 11:24 AM	EPL52	GF01 leachate basin	12.2	88.7	9.49	877	561	7.43	239	132	Sunny day, basin' water level pretty full, no odor, turbid	Parameters are representative of leachate storage infrastructure
16 May 2026, 9:25 PM	EPL55	GF01 surface water downstream	15.53	97.8	9.73	801	512	7.46	207	12.8	Clear day. No recent rain. Water clear with no odour. GF01 recently overflowing.	High EC could be attributed to the recent overflowing of the upgradient leachate basin (GF01) as mentioned in the field notes.
-	EPL67	Nungar Creek surface water downstream west from Tantangara emplacement area	-	-	-	-	-	-	-	-	-	Reservoir level was too low to collect sample
9 May 2026, 6:53 AM	EPL71	Surface water downstream of Marica emplacement	6.88	54.8	6.66	158	101	6.54	248	243	Cloudy day, no raining, milky colour water, slow flow, no odour, heavy vegetated creek.	Low water levels and flow could contribute to sediments being disturbed during sample collection affecting turbidity. Low DO% has been observed at this location previously. This location is being monitored due to prior TKN levels being elevated.
-	EPL76	Rock Forest Leachate basin	-	-	-	-	-	-	-	-	-	Basin dry
16 May 2026, 9:20 AM	EPL84	F8 Basin	10.64	63.2	7.02	380	247	7.97	163	410	QA_MY_01, sunny day, highly turbid, no odour or sheen, inflows into basin, basin overflowing	Parameters are representative of leachate storage infrastructure
16 May 2026, 9:33 AM	EPL85	MY07 Basin	10.91	86.8	9.58	452	294	8.17	163	86	Overcast day, no odour or sheen, turbid, birds present no	Parameters are representative of leachate storage infrastructure
16 May 2026, 10:34 AM	EPL86	LH001 Basin	11.75	62.5	6.46	883	565	8.44	85	62.2	Overcast day, inflow into basin from leachate line, turbid, no odour or sheen	Parameters are representative of leachate storage infrastructure
23 May 2026, 11:27 AM	EPL98	Rock blanket diversion monitoring under GF01 liner	14.36	65.5	6.68	957	613	6.7	276	47.8	Sunny day, clear water, algae around the discharge point	Results are consistent with previously recorded data from prior condition rounds.

EPL 21266 In Situ Water Quality Measurements

EPL Monthly In-Situ Monitoring April 2026												
9 May 2026, 7:40 AM	EPL99	Marica Leachate Basin- Turkey's Nest	7.25	52.5	6.33	281	183	8.86	168	109	Clear day, no raining, no odour, active discharge into the basin.	Parameters are representative of leachate storage infrastructure
9 May 2026, 7:20 AM	EPL100	Marica Lower Leachate Basin USS Shaft	-	-	-	-	-	-	-	-	Low water level, it is not possible to safely sample.	Basin dry
9 May 2026, 7:26 AM	EPL101	Marica Leachate Basin Spoil Pad	5.56	86	10.81	422	275	7.29	219	72.4	Clear day, no raining, low water level, no odour, vac truck desludging the basing at time of sampling.	Parameters are representative of leachate storage infrastructure
16 May 2026, 10:13 AM	EPL106	Ravine Bay Leachate basin 1	12.65	62.7	6.6	2,100	1,340	7.8	91	13.4	Clear day. No recent rain. Water clear no odour. Water taken from tap at holding tanks.	Parameters are representative of leachate storage infrastructure
16 May 2026, 11:09 AM	EPL110	Upstream monitoring of Ravine Bay emplacement area	12.06	71.4	7.69	44	29	7.94	175	24	Clear day. No recent rain. Water flowing well. No odour or sheen.	This location is upstream of project works and therefore not considered to be impacted by construction
18 May 2026, 12:23 PM	EPL118	Ravine Bay Leachate basin 2	-	-	-	-	-	-	-	-	No sample taken due to safe access issues.	Basin not sampled due to access issues
18 May 2026, 12:04 PM	EPL119	Ravine Bay Leachate basin 3	-	-	-	-	-	-	-	-	No sample taken due to safe access issues	Basin not sampled due to access issues
18 May 2026, 12:01 PM	EPL120	Ravine Bay Leachate basin 4	-	-	-	-	-	-	-	-	No water sample taken due to water level is very low	Basin not sampled due to access issues
16 May 2026, 2:51 PM	EPL122	GFO1 Drainage Line (Formerly EPL 55b)	14.55	60.5	6.15	440	286	8.18	212	11.3	Clear day. No recent rain. Water flow and level low.	These parameters are consistent with previously recorded data.

Table 2 - Reservoir Water Quality Data

Talbingo and Tantangara Reservoirs

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
2 May 2026, 1:06 PM	EPL10	Talbingo Reservoir, downstream of road works and upstream of water intake point	16.5	97.4	9.54	63.6	41	7.72	86.5	1.92	No recent rain, no foam sheen or odour clear water	All parameters are within the WQO's
2 May 2026, 12:28 PM	EPL11	Talbingo Reservoir, downstream of outlet	16.6	96.4	9.41	59.9	39	7.72	87.2	1.1	Clear water slight algal presence, no recent rain. No foam sheen or odour	All parameters are within the WQO's
27 May 2026, 9:33 AM	EPL128	Tantangara Reservoir, upstream of works in the mouth of the Murrumbidgee River	8.47	79	9.25	16	10	7.55	175	49.5	Cloudy day, no rain, low reservoir level, no odour, slightly wind, turbid water, visible suspended solids.	This location is upstream and not affected by project activities
27 May 2026, 8:37 AM	EPL129	Tantangara Reservoir, downstream of works area and upstream of lower Murrumbidgee River	9.97	81.5	9.2	17	11	7.97	147	16.8	Cloudy day, no rain, low reservoir level, no odour, no windy, visible suspended solids.	Parameters are representative of upstream location
27 May 2026, 8:45 AM	EPL132	Tantangara Reservoir, Tantangara Intake. Downstream of construction works	10	75.9	8.57	18	11	7.81	156	16.9	Cloudy day, no rain, low reservoir level, no odour, no wind, visible suspended solids. QAs collected in this location.	Parameters are representative of upstream location
27 May 2026, 8:58 AM	EPL138	Tantangara Reservoir, variable location dependent on tide and reservoir levels. Between the emplacement area and the ancillary facilities for emplacement activities	10.08	82.6	9.31	17	11	7.76	162	19.5	Cloudy day, no rain, low reservoir level, no odour, slightly windy, visible suspended solids.	Parameters are representative of upstream location
17 May 2026, 10:59 AM	EPL139	Confluence of Nungar Creek and Tantangara Reservoir, variable location dependent on tide and reservoir levels. Upstream of Tantangara construction works	11.16	62.6	6.88	15	10	7.21	228	5.7	Clear water medium flow. No recent rain. Signs of hard hooved animals at sample point. Algal and other vegetation around sample point.	This location is upstream and not affected by project activities
27 May 2026, 9:40 AM	EPL140	Confluence of the upper Murrumbidgee River and Tantangara Reservoir, variable location dependent on tide and reservoir levels. Upstream of works	8.47	75.9	8.89	16	11	7.4	179	30.4	Cloudy day, no rain, low water level, no odour, visible suspended solids.	This is an upgradient location and not influenced by construction works
27 May 2026, 8:27 AM	EPL 51	Tantangara Reservoir, downstream of Tantangara STP/PWTP diffuser outlet	10.03	78.9	8.91	21	13	8.39	116	18.8	Cloudy day, no rain, low water level, no windy, no odour, visible suspended solids.	Parameters are representative of upstream location, with the exception of pH being elevated.
10 May 2026, 9:10 AM	EPL107	Upstream monitoring of Ravine Bay emplacement area within Yarrangobilly River	15.12	75.3	7.57	24	7.57	7.47	226	1.1	Clear sunny day, no odour or sheen, clear	This is an upgradient location and not influenced by construction works
10 May 2026, 8:58 AM	EPL108	Monitoring of Ravine Bay emplacement area (center of PSE) within Yarrangobilly River	14.95	76.5	7.72	22	15	7.34	228	0.8	Clear sunny day, no odour, slight sheen, clear	Parameters are representative of upstream location
10 May 2026, 8:48 AM	EPL109	Upstream monitoring of Ravine Bay emplacement area within Yarrangobilly River	15.04	79.5	8.01	20	13	7.31	237	0.7	Clear sunny day, clear no odour or sheen, QA_LOBS_1 and 2 sampled here	This is an upgradient location and not influenced by construction works

Table 3 - Treated Water Quality Data

Talbingo

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
3 May 2026, 10:45 AM	EPL41	Lebs Hole STP/PWTP Final Effluent Quality Monitoring Point. Downstream of final treatment, prior to discharge to Talbingo Reservoir.	17.44	69	6.61	21	14	7.96	208	4.9	Clear water. QA_LOBS_2 and QA_LOBS_3 taken here.	All parameters are within the WQO's

Table 4 - Treated Water Quality Data

Tantangara

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
17 May 2026, 9:13 AM	EPL50	Tantangara STP/PWTP Final Effluent Quality Monitoring Point. Downstream of final treatment, prior to discharge to Tantangara Reservoir.	12.84	54.1	5.71	58	38	8.03	216	0.8	Area around sample location clean and tidy. Plant recirculating at time of collection. QA's taken here.	All parameters are within the WQO's



EPL 21266 In Situ Water Quality Measurements

EPL Monthly In-Situ Monitoring April 2026

Table 5 - Groundwater Quality Data
Lobs Hole, Tantangara, Marica and Rock Forest

			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
30 May 2026, 2:38 PM	EPL1	Wallace Creek Bridge, west of ECVT portal	-	-	-	-	-	-	-	-	No sample taken due to water inundation.	No sample taken due to water inundation
30 May 2026, 2:19 PM	EPL2	Wallace Creek Bridge, West of ECVT portal	13.33	59.6	6.22	449	292	6.67	103	25.6	Overcast day. Light rain over last 24hrs. Grey metallic colour in base of sleeve suspected from unused bore logger. Sulphuric smell.	Metallic odours and colours have been reported at this location previously. Sulphuric smell could be put down to low Dissolved Oxygen % within the aquifer
30 May 2026, 2:17 PM	EPL4	Lobs Hole Portal Access, west of MAT portal	-	-	-	-	-	-	-	-	Sample not taken due to water inundation.	No sample taken due to water inundation
30 May 2026, 2:46 PM	EPL25	Monitoring wet, downslope of MAT portal	13.14	11	1.15	453	295	6.46	-30	1000	Overcast day. Light rain in previous 24hrs. Water muddy brown colour at base of sleeve.	Low DO%, and pH are consistently recorded at this location, as is high EC.
11 May 2026, 2:45 PM	EPL56	GF01 groundwater upstream east	15.09	9	0.91	165	107	7.59	120	17.2	Sunny day, no recent rain, no odour, clear water.	This is an upgradient location and not impacted by project works
11 May 2026, 2:59 PM	EPL57	GF01 groundwater upstream west	14.74	11.5	1.17	188	122	8.19	122	24.5	Sunny day, no recent rain, wet ground around sample point, it is assumed water car sprayed recently, clear water, no odour.	This is an upgradient location and not impacted by project works
16 May 2026, 3:07 PM	EPL58	GF01 groundwater downstream	16.5	16.3	1.58	697	446	6.28	266	3.7	Clear day. No recent rain. Water clear no odour. QA's taken here.	Low DO% and elevated EC fall within previously recorded data range.
8 May 2026, 7:42 AM	EPL64	Marica groundwater downgradient of the TSE	8.02	82.3	9.72	370	241	7.8	156	18.2	Lightly raining, cloudy and foggy day, water pooling at sample point, clear water, no odour.	Low DO% and slightly elevated EC are consistently recorded at this location
8 May 2026, 7:28 AM	EPL65	Marica groundwater downgradient of the TSE	-	-	-	-	-	-	-	-	No water available, dry.	Location not sampled due to availability of water
8 May 2026, 7:20 AM	EPL66	Marica groundwater downgradient of the TSE	-	-	-	-	-	-	-	-	No water available.	Location not sampled due to availability of water
17 May 2026, 11:20 AM	EPL68	Tantangara groundwater downstream West	12.98	52.9	5.57	14	9	6.2	275	2.1	Clear day. No recent rain. Water clear with no odour.	Parameters at this location are representative of the upstream location
17 May 2026, 11:27 AM	EPL69	Tantangara groundwater downstream East	13.71	30.7	3.19	24	16	6.02	275	322	Clear day. No recent rain. Water yellowy orange colour. No odour.	Parameters at this location are representative of the upstream location
17 May 2026, 10:12 AM	EPL70	Tantangara groundwater upstream	11.65	42.4	4.6	95	62	7.23	242	68	Clear day. No recent rain. Yellowy sediment at base of sleeve.	This location is upgradient to construction works and not affected by the project.
8 May 2026, 8:01 AM	EPL72	Marica groundwater upstream	8.49	63.2	7.39	66	43	7.52	203	30.1	Cloudy and foggy day, clear water, no odour, water pooling near sample point.	This location is upgradient to construction works and not affected by the project.
16 May 2026, 12:39 PM	EPL80	Lick Hole Gully groundwater upstream	17.36	34.8	3.33	840	538	5.45	53	124	Highly stratified water column, orange growth present, slightly turbid, no odour, concrete pad requires work	This location is upgradient to construction works and not affected by the project. Low pH is characteristic at this site however %45 is on the lower side again, this could be put down to sampling error and will be monitored in future rounds.
16 May 2026, 10:43 AM	EPL81	Lick Hole Gully groundwater downstream	13.75	62.5	6.46	883	565	8.44	85	62.2	Purged with submersible pump, turbid, no odour	These parameters are consistent with the upstream location, other than pH, which will be monitored
16 May 2026, 1:06 PM	EPL82	Main Yard groundwater upstream	17.69	18.8	1.77	2,980	1,910.00	8.65	-118	96	Strong sulphuric odour, clear, hydrasleeve required	This location is upgradient to construction works and not affected by the project. Elevated EC is within previously recorded range.
16 May 2026, 10:12 AM	EPL83	Main Yard groundwater downstream	13.83	39.5	4.08	771	494	7.35	89	216	Overcast day, no odour or sheen, slightly milky, purged via submersible pump	Low DO% and elevated EC within previously recorded data range. Turbidity is mentioned in the field notes.
16 May 2026, 9:01 AM	EPL87	Main Yard groundwater downstream	13.78	41.4	4.27	903	578	7.34	172	268	Bore purged with submersible pump, no odour or sheen, turbid,	Low DO% and elevated EC within previously recorded data range.
16 May 2026, 9:46 AM	EPL88	Main Yard groundwater downstream	14.24	22.8	2.33	842	539	7.17	-133	28.2	Sulphuric odour, clear, no sheen	Low DO% and elevated EC within previously recorded data range. Turbidity is mentioned in the field notes.
16 May 2026, 12:09 PM	EPL89	Lick Hole Gully groundwater downstream	18.6	31.2	2.92	129	84	8.22	85	351	Water column stratified, hydrasleeve half full, turbid, no odour or sheen, oil and grease not sampled due to limited water	Elevated pH and low DO% fall within historic records. Turbidity is noted in the field observations.
11 May 2026, 1:54 PM	EPL 90	GF01 groundwater downstream	15.7	79	7.85	161	105	6.64	200	2	Sunny day, no recent rain, clear water, no odour. QAs collected in this location. QA_LOBS_1, QA_LOBS_2.	Low DO% results are consistent with previous sampling rounds.
11 May 2026, 1:41 PM	EPL 91	GF01 groundwater downstream	17.11	18.3	1.76	167	108	6.94	185	22.7	Sunny day, no recent rain, clear water, no odour.	Low DO% results are consistent with previous sampling rounds.
11 May 2026, 2:09 PM	EPL 92	GF01 groundwater downstream	15.21	51.9	5.21	103	67	6.67	203	382	Sunny day, no recent rain, wet ground around sampling point, it is assumed water car was spraying recently, no odour, turbid water	Low DO% results are consistent with previous sampling rounds. Turbidity is mentioned in the field observations.
11 May 2026, 2:19 PM	EPL 93	GF01 groundwater downstream	15.63	18.7	1.85	163	106	7.21	126	35	Sunny day, no recent rain, no odour, yellow/orange water colour, turbid water.	Low DO% results are consistent with previous sampling rounds. Turbidity is mentioned in the field notes.
11 May 2026, 2:29 PM	EPL 94	GF01 groundwater downstream	15.55	38.6	3.84	119	77	7.26	18	63.8	Sunny day, no recent rain, no odour, turbid water, bore appeared to be run over by a vehicle	Low DO% results are consistent with previous sampling rounds. Turbidity is mentioned in the field observations.
16 May 2026, 3:18 PM	EPL 95	GF01 groundwater downstream	16.26	11.5	1.13	541	346	6.25	262	46	Clear day. No recent rain. Water clear no odour.	These results are consistent with previous sampling rounds.
16 May 2026, 3:35 PM	EPL 97	GF01 groundwater downstream	16.27	76.6	7.51	351	228	6.87	183	45.7	Clear day. No recent rain. Water clear no odour.	Elevated EC and low DO% are consistent with previous sampling rounds. Water clarity is mentioned in the field notes.
17 May 2026, 10:27 AM	EPL103	Upstream groundwater monitoring west of the Tantangara emplacement area	12.47	36.5	3.89	32	21	6.71	265	19.1	Clear day. No recent rain. Water clear no odour.	This location is upgradient to construction works and not affected by the project. Low DO% is historically recorded at this location.

EPL 21266 In Situ Water Quality Measurements

EPL Monthly In-Situ Monitoring April 2026

17 May 2026, 11:49 AM	EPL104	Dowloope groundwater monitoring east of the Tantaranga emplacement area	13.17	27.6	2.9	36	24	6.08	285	60	Clear day. No recent rain. Water clear with no odour.	Low DO% and pH results are consistent with previous sampling rounds.
17 May 2026, 10:46 AM	EPL105	Dowloope groundwater monitoring west of the Tantaranga emplacement area	12.67	51.5	5.47	111	72	6.07	284	10.1	Clear day. No recent rain. Water clear. No odour.	Low DO% and pH results are consistent with previous sampling rounds.
16 May 2026, 10:48 AM	EPL113	Upstream east monitoring of Ravine Bay emplacement area	13.49	33.6	3.5	89	58	7.33	199	58.9	Clear day. No recent rain. Water level high (780mm TOC). Water slight yellowy colour. Clear slimy substance on outside of hydrasleeve.	This location is upgradient to construction works and not affected by the project.
16 May 2026, 10:20 AM	EPL114	Upstream west monitoring of Ravine Bay emplacement area	13.53	27.7	2.89	294	191	7.69	121	7.2	Clear day. No recent rain. Water clear no odour.	This location is upgradient to construction works and not affected by the project.
16 May 2026, 11:24 AM	EPL115	Downstream east monitoring of Ravine Bay emplacement area	13.93	25.9	2.68	241	157	7.7	182	14.3	Clear day. No recent rain.	Low DO% and pH results are consistent with previous sampling rounds and considered background.
16 May 2026, 9:50 AM	EPL116	Downstream west monitoring of Ravine Bay emplacement area	14.32	57.5	5.88	97	63	7.07	52	279	Clear day. No recent rain. Sediment in base of sleeve. No odour.	These results are consistent with previous sampling rounds. Turbidity is noted in the field observations.
16 May 2026, 9:17 AM	EPL117	Downstream monitoring of Ravine Bay emplacement area	13.86	24.1	2.49	98	64	7.11	1	94	Clear day. No recent rain. Water clear no odour.	Low DO% results are consistent with previous sampling rounds. Water clarity is noted in the field observations.
8 May 2026, 10:27 AM	EPL123	Upgradient west of the Rock Forest PSE	11.77	83.6	9.06	19	12	6.21	233	1000	Partially cloudy day, no rain, no odour, turbid water, orange sediment at the base of hydrasleeve.	This location is upgradient to construction works and not affected by the project.
8 May 2026, 10:41 AM	EPL124	Upgradient (NE) of the Rock Forest PSE	12.66	62.7	6.65	17	11	5.49	273	1000	Partially cloudy day, no rain, turbid water, sediment at the base of hydrasleeve, no odour	This location is upgradient to construction works and not affected by the project.
8 May 2026, 10:10 AM	EPL125	Downgradient (S) of the Rock Forest PSE	11.84	85.8	9.28	71	46	6.17	252	1000	Partially cloudy day, no rain, orange/yellow sediment at the end of hydrasleeve, no odour.	Low DO% results are consistent with previous sampling rounds. Water clarity is noted in the field observations.
8 May 2026, 9:57 AM	EPL126	Downgradient (SE) of the Rock Forest PSE	10.89	85.3	9.43	267	173	7.39	86	1000	Partially cloudy day, no raining, milky water colour, no odour, signs of animal activity around sampling point.	Low DO% results are consistent with previous sampling rounds. Water clarity is noted in the field observations.
8 May 2026, 9:40 AM	EPL127	Downgradient of the Rock Forest PSE.	10.53	46.2	5.15	100	65	7.14	248	133	Partially cloudy day, no raining at the time of sampling, clear water, no odour, signs of animal activity around sampling point	Low DO% results are consistent with previous sampling rounds. Water clarity is noted in the field observations.

Snowy 2.0 Environmental Protection License Water Quality Results



Monitoring Period	1 - 31 May 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

SUMMARY	
Groundwater Water Quality Results:	During this reporting period, groundwater monitoring locations remained consistent with baseline datasets and established historical trends. However, a marginal decrease in pH values and a minor increase in organic nitrogen concentrations were observed. This shift is likely attributable to increased surface runoff driven by the high-intensity precipitation events recorded across the project footprint. This hydrological interaction was further evidenced by accumulated sediment within the monitoring sleeves and a slight elevation in turbidity concentrations.
Reservoir Water Quality Results:	<p>Talbingo Reservoir recorded dissolved oxygen (DO) results below WQO criteria, ranging from 74.7% to 79.5% saturation. Total nitrogen concentrations were within WQOs, while total phosphorus and ammonia exceeded the criteria, with values up to 40 µg/L TP (at EPL107) and 40 µg/L ammonia (at EPL109).</p> <p>Tantangara Reservoir also recorded DO results below WQOs, ranging from 62.6% to 82.6% saturation, potentially influenced by low water levels. Electrical conductivity values (15–21 µS/cm) were lower compared to the previous month.</p> <p>Regarding nutrient concentrations, total nitrogen exceeded WQOs across multiple sites (EPL28, EPL29, EPL38, and EPL51), with concentrations reaching up to 800 µg/L at EPL29. These elevated TN levels were primarily driven by Total Kjeldahl Nitrogen at three of the four locations, with EPL29 being the exception.</p> <p>No exceedances of metal concentrations were recorded at any of the Tantangara or Talbingo reservoir monitoring points.</p>
Surface Water Quality Results:	<p>The Yarrangobilly River Monitoring Zone May records are mainly within WQO criteria, except for ammonia concentrations at EPL5, EPL6, EPL9, and EPL15. Nutrient exceedances (total nitrogen, TN) were recorded at EPL24 (19,400 µg/L), EPL55 (39,700 µg/L), EPL98 (68,700 µg/L), and EPL122 (44,900 µg/L). These exceedances are attributed to proximity to the GF01 project-related impacted area, which is currently subject to remedial investigations.</p> <p>The Marica TSE Monitoring Zone exhibited elevated nutrient concentrations at EPL71, with TN at 2,800 µg/L and TP at 150 µg/L. These results are likely due to low water levels, slow flow, and a heavily vegetated creek. However, there has been a significant reduction compared to April records (7,000 µg/L TN and 210 µg/L TP), and this location will continue to be reviewed.</p> <p>Metal concentrations are mostly within WQO criteria; however, EPL33 recorded an elevated dissolved aluminium concentration (42 µg/L), increasing from 38 µg/L in the April monitoring period. This location will be subject to further review.</p> <p>Due to low water levels within the Tantangara Reservoir, EPL67 could not be accessed. Consequently, this location has been consolidated with EPL39, which will serve as the representative monitoring site for establishing ambient water quality conditions for Nungar Creek.</p>
Discharge Water Quality Results:	Discharge water quality concentrations were within the EPL 90 percentile limits.
Leachate Water Quality Results:	<p>Leachate storage infrastructure continues to exhibit the highest nutrient concentrations in the monitoring network, with total phosphorus up to 150 µg/L at EPL84 and total nitrogen up to 94,100 µg/L at EPL106. Metal concentrations exceeding WQOs were also recorded, including dissolved zinc up to 9 µg/L at EPL106, dissolved arsenic up to 6.9 µg/L and dissolved chromium up to 14.6 µg/L at EPL85. These results are within expectations for locations storing leachate water.</p> <p>No samples were collected in May at the Ravine Bay leachate basins (EPL118, EPL119, EPL120) due to access safety issues.</p> <p>EPL76 corresponds to the Pollution Control Basin (PCB) at Rock Forest, which is currently under construction; therefore, sampling has not yet commenced.</p> <p>The Marica Lower Leachate Basin USS Shaft (EPL100) had low water levels, and it was not possible to safely collect a sample.</p>

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Snowy Hydro 2.0 Main Works**Monthly EPL Sampling: 01 - 31 May 2026 - Talbingo and Tantangara Reservoir**

Analyte	Unit	Limit of Reporting	Water Quality Objectives
Field			
pH	pH Unit	-	6.5-8
Electrical Conductivity	µS/cm	-	20-30
Oxidation Reduction Potential	mV	-	No Water Quality Objective Value
Temperature	°C	-	No Water Quality Objective Value
Dissolved Oxygen	% saturation	-	90-110
Turbidity	NTU	-	1-20
Laboratory analytes			
Total suspended solids	mg/L	5	No Water Quality Objective Value
Hardness as CaCO ₃	mg/L	1	No Water Quality Objective Value
Nutrients			
Ammonia as N	µg/L	10	10
Kjeldahl Nitrogen Total	µg/L	100	No Water Quality Objective Value
Nitrate (as N)	µg/L	10	No Water Quality Objective Value
Nitrite (as N)	µg/L	10	No Water Quality Objective Value
Nitrogen (Total)	µg/L	100	350
Reactive Phosphorus	µg/L	10	5
Phosphorus (Total)	µg/L	10	10
Inorganics			
Cyanide Total	µg/L	4	7
Hydrocarbons			
Oil and Grease	mg/L	1	No Water Quality Objective Value
Metals			
Aluminium (total)	µg/L	5	No Water Quality Objective Value
Aluminium (dissolved)	µg/L	5	55
Arsenic (dissolved)	µg/L	0.2	13
Calcium (dissolved)	µg/L	1000	No Water Quality Objective Value
Chromium (III+VI) (total)	µg/L	0.2	No Water Quality Objective Value
Chromium (III+VI) (dissolved)	µg/L	0.2	0.01
Copper (dissolved)	µg/L	0.5	1.4
Iron (total)	µg/L	2	No Water Quality Objective Value
Iron (dissolved)	µg/L	2	300
Lead (dissolved)	µg/L	0.1	3.4
Magnesium (dissolved)	µg/L	1000	No Water Quality Objective Value
Manganese (total)	µg/L	0.5	No Water Quality Objective Value
Manganese (dissolved)	µg/L	0.5	1,900
Nickel (dissolved)	µg/L	0.5	11
Zinc (dissolved)	µg/L	1	8
Biological			
Biochemical Oxygen Demand	mg/L	2	No Water Quality Objective Value
Chlorophyll a	µg/L	1	No Water Quality Objective Value
Faecal Coliforms	CFU/100mL	1	No Water Quality Objective Value
Organic			
Dissolved Organic Carbon	mg/L	1	No Water Quality Objective Value

EPL10	EPL11	EPL28	EPL29	EPL32	EPL38	EPL39	EPL40	EPL51	EPL107	EPL108	EPL109
10/05/2026	10/05/2026	27/05/2026	27/05/2026	27/05/2026	27/05/2026	17/05/2026	27/05/2026	27/05/2026	10/05/2026	10/05/2026	10/05/2026
7.68	7.53	7.55	7.97	7.81	7.76	7.21	7.4	8.39	7.47	7.34	7.31
32	30	16	17	18	17	15	16	21	24	22	20
172	221	175	147	156	162	228	179	116	226	228	237
15.14	15.14	8.47	9.97	10	10.08	11.16	8.47	10.03	15.12	14.95	15.04
75.2	74.7	79	81.5	75.9	82.6	62.6	75.9	78.9	75.3	76.5	79.5
1	0.9	49.5	16.8	16.9	19.5	5.7	30.4	18.8	1.1	0.8	0.7
<5	<5	16	<5	<5	<5	<5	<5	<5	<5	<5	<5
17	17	9	9	9	9	7	9	9	12	12	12
20	20	100	150	140	100	<10	70	290	10	20	40
100	<100	600	300	200	600	<100	<100	300	100	<100	<100
40	30	<10	460	90	50	10	<10	120	30	30	50
<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
100	<100	600	800	300	600	<100	<100	400	100	<100	<100
<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
30	30	20	10	10	30	<10	20	10	40	20	20
<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
61	44	745	142	135	147	140	403	154	51	47	41
<5	<5	19	41	38	40	12	19	42	<5	<5	<5
0.3	0.3	<0.2	0.3	0.3	0.3	<0.2	<0.2	0.3	0.2	0.2	0.2
5,000	5,000	2,000	2,000	2,000	2,000	1,000	2,000	2,000	3,000	3,000	3,000
0.3	<0.2	0.9	0.2	0.3	0.2	0.3	0.4	0.2	<0.2	<0.2	<0.2
<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
58	46	1,430	525	500	444	136	877	532	45	43	35
12	11	204	252	248	220	53	194	255	9	8	8
<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
3.6	3.2	146	77.5	62.9	49.1	3.0	122	86.8	3.8	4.4	4.0
<0.5	<0.5	116	1.9	1.8	2.0	1.6	121	2.8	0.7	0.5	0.5
<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
<2	<2	2	-	-	-	-	-	<2	-	-	-
4	2	2	10	11	11	<1	2	10	1	1	<1
6	4	160	-	-	-	-	-	1	-	-	-
2	2	2	3	3	3	2	2	3	2	2	2

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Snowy Hydro 2.0 Main Works
Monthly EPL Sampling: 01 - 31 May 2026 - Discharge Water

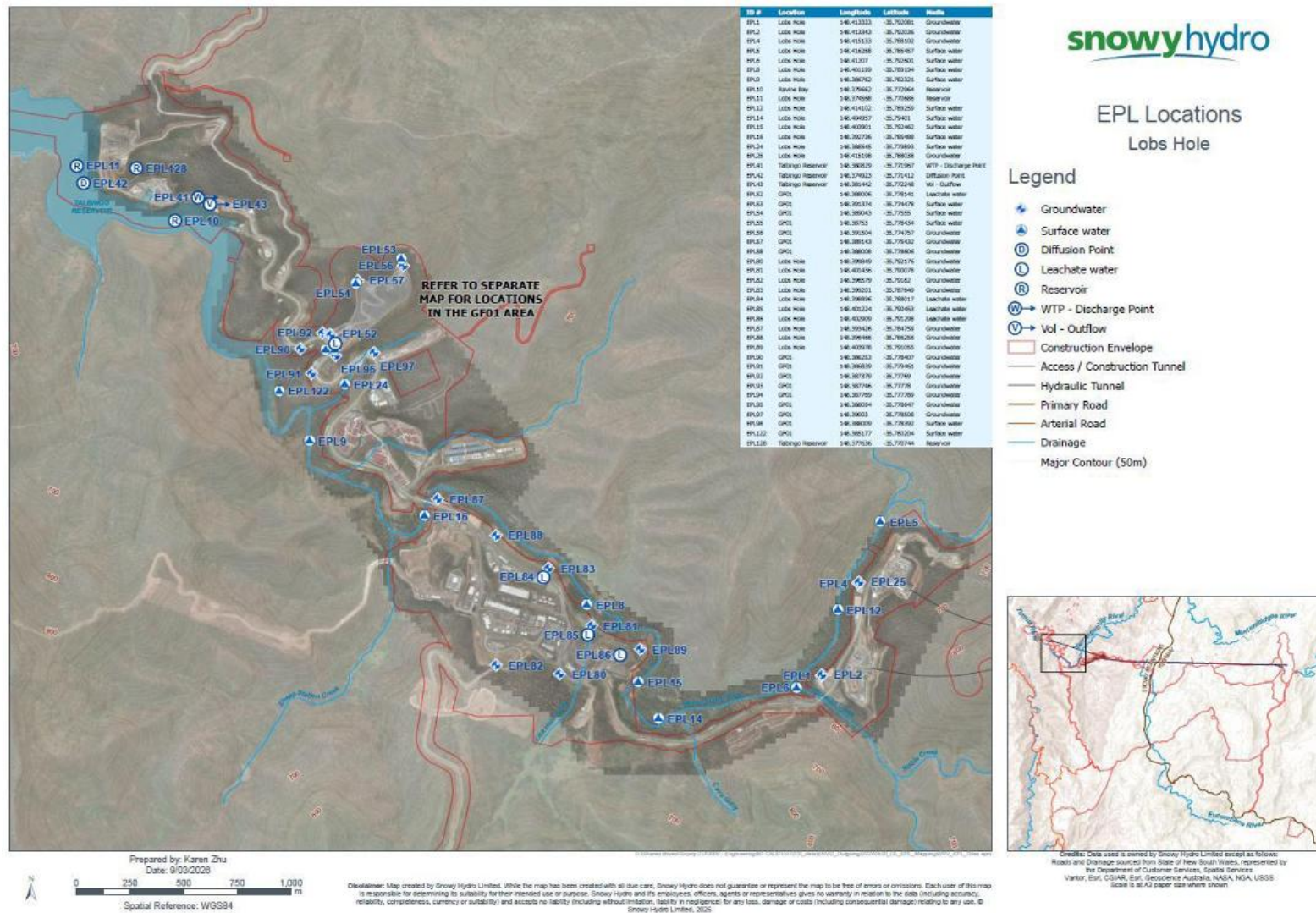
Analyte	Unit	Limit of Reporting	Water Quality Objectives / EPL Discharge Limits*	EPL 41 3/05/2026	EPL 50 17/05/2026
Field					
pH	pH Unit	-	6.5-8.5	7.96	8.03
Electrical Conductivity	µS/cm	-	700 (EPL 41) / 200 (EPL 50)	21	58
Oxidation Reduction Potential	mV	-	No Water Quality Objective Value	208	216
Temperature	°C	-	No Water Quality Objective Value	17.44	12.84
Dissolved Oxygen	% saturation	-	No Water Quality Objective Value	69	54.1
Turbidity	NTU	-	1-20	4.9	0.8
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	2
Nutrients					
Ammonia as N	µg/L	10	1000*/2000**	40	10
Kjeldahl Nitrogen Total	µg/L	100	No Water Quality Objective Value	<100	200
Nitrate (as N)	µg/L	10	No Water Quality Objective Value	160	120
Nitrite (as N)	µg/L	10	No Water Quality Objective Value	<10	<10
Nitrogen (Total)	µg/L	100	1500*/3000**	200	300
Reactive Phosphorus	µg/L	10	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 (total)	µg/L	5	No Water Quality Objective Value	<5	<5
Aluminium (dissolved)	µg/L	5	No Water Quality Objective Value	<5	<5
Arsenic (dissolved)	µg/L	0.2	No Water Quality Objective Value	<0.2	<0.2
Calcium (dissolved)	µg/L	1000	No Water Quality Objective Value	<1,000	1,000
Chromium (III+VI) (total)	µg/L	0.2	No Water Quality Objective Value	<0.2	0.8
Chromium (III+VI) (dissolved)	µg/L	0.2	No Water Quality Objective Value	<0.2	0.5
Copper (dissolved)	µg/L	0.5	No Water Quality Objective Value	<0.5	<0.5
Iron (total)	µg/L	2	No Water Quality Objective Value	<2	<2
Iron (dissolved)	µg/L	2	No Water Quality Objective Value	<2	<2
Lead (dissolved)	µg/L	0.1	No Water Quality Objective Value	<0.1	<0.1
Magnesium (dissolved)	µg/L	1000	No Water Quality Objective Value	<1,000	<1,000
Manganese (total)	µg/L	0.5	No Water Quality Objective Value	<0.5	0.8
Manganese (dissolved)	µg/L	0.5	No Water Quality Objective Value	<0.5	0.6
Nickel (dissolved)	µg/L	0.5	No Water Quality Objective Value	<0.5	<0.5
Zinc (dissolved)	µg/L	1	No Water Quality Objective Value	<1	<1
Biological					
Biological Oxygen Demand	mg/L	2	3.5*/5**	<2	<2
Chlorophyll a	µg/L	1	No Water Quality Objective Value	<1	<1
Faecal Coliforms	CFU/100mL	1	10*/100**	2	<1
Organic					
Dissolved Organic Carbon	mg/L	1	No Water Quality Objective Value	<1	<1

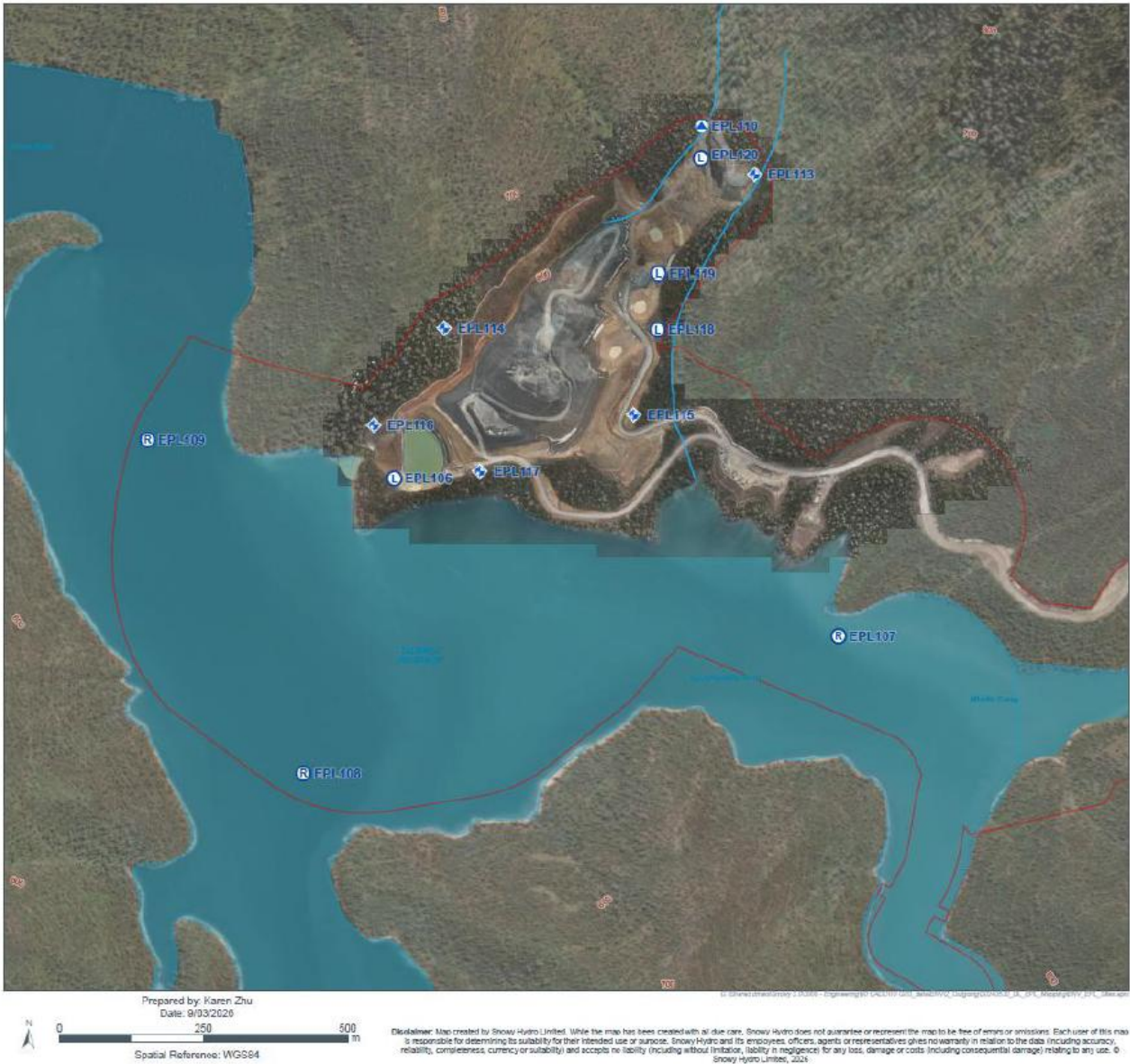
* EPL Discharge Limits, 90 Percentile Concentration Limit as per EPL 21266

** EPL Discharge Limits, 100 Percentile Concentration Limits as per EPL 21266

Snowy Hydro 2.0 Main Works Monthly EPL Sampling: 01 - 31 May 2026 - Discharge Volumes		EPL 43	EPL 50
Date	Discharge volume (Megalitres)		
1/05/2026	0.31	0.29	
2/05/2026	-	0.72	
3/05/2026	0.25	0.65	
4/05/2026	0.31	0.35	
5/05/2026	-	0.52	
6/05/2026	-	0.39	
7/05/2026	0.55	0.41	
8/05/2026	-	0.49	
9/05/2026	0.52	0.32	
10/05/2026	0.22	0.41	
11/05/2026	0.42	-	
12/05/2026	0.22	0.53	
13/05/2026	0.46	0.31	
14/05/2026	-	0.16	
15/05/2026	0.47	-	
16/05/2026	-	0.32	
17/05/2026	0.26	0.54	
18/05/2026	0.39	0.94	
19/05/2026	0.36	0.42	
20/05/2026	0.52	0.64	
21/05/2026	-	0.76	
22/05/2026	-	0.49	
23/05/2026	-	0.66	
24/05/2026	0.17	-	
25/05/2026	-	0.80	
26/05/2026	0.38	0.55	
27/05/2026	0.47	0.18	
28/05/2026	0.33	0.48	
29/05/2026	-	0.41	
30/05/2026	0.65	0.49	
31/05/2026	-	0.39	

APPENDIX B – EPL LOCATION MAPS





EPL Locations
Ravine Bay

Legend

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

ID #	Location	Longitude	Latitude	Media
EPL106	Ravine Bay	148.357295	-35.75806	Leachate water
EPL107	Ravine Bay	148.365751	-35.760429	Reservoir
EPL108	Ravine Bay	148.355537	-35.762692	Reservoir
EPL109	Ravine Bay	148.35246	-35.757508	Reservoir
EPL110	Ravine Bay	148.362993	-35.752503	Surface water
EPL113	Ravine Bay	148.364013	-35.75325	Groundwater
EPL114	Ravine Bay	148.35814	-35.755696	Groundwater
EPL115	Ravine Bay	148.36178	-35.757011	Groundwater
EPL116	Ravine Bay	148.35681	-35.757232	Groundwater
EPL117	Ravine Bay	148.35807	-35.757928	Groundwater
EPL118	Ravine Bay	148.362196	-35.755675	Leachate water
EPL119	Ravine Bay	148.362196	-35.754611	Leachate water
EPL120	Ravine Bay	148.362978	-35.753004	Leachate water



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Sources: Esri, Vantor, Airbus DS, USGS, NOAA, NASA, CGAR, N. Robinson, NOAA, NLS, CG, HMA, Geobase, Rijkswaterstaat, GSA, Geoland, FEMA, Intermap, and the GIS user community, Vantor, Esri, Geoscience Australia, NASA, NOAA, USGS
Scale is at A3 paper size where shown.





Prepared by: Karen Zhu
Date: 9/13/2026
Spatial Reference: WGS84

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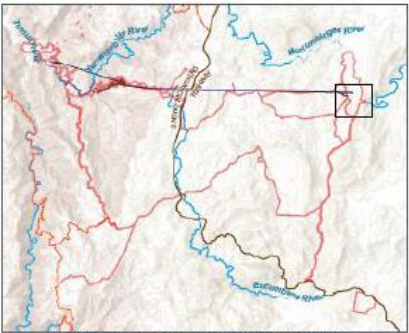


EPL Locations
Tantangara

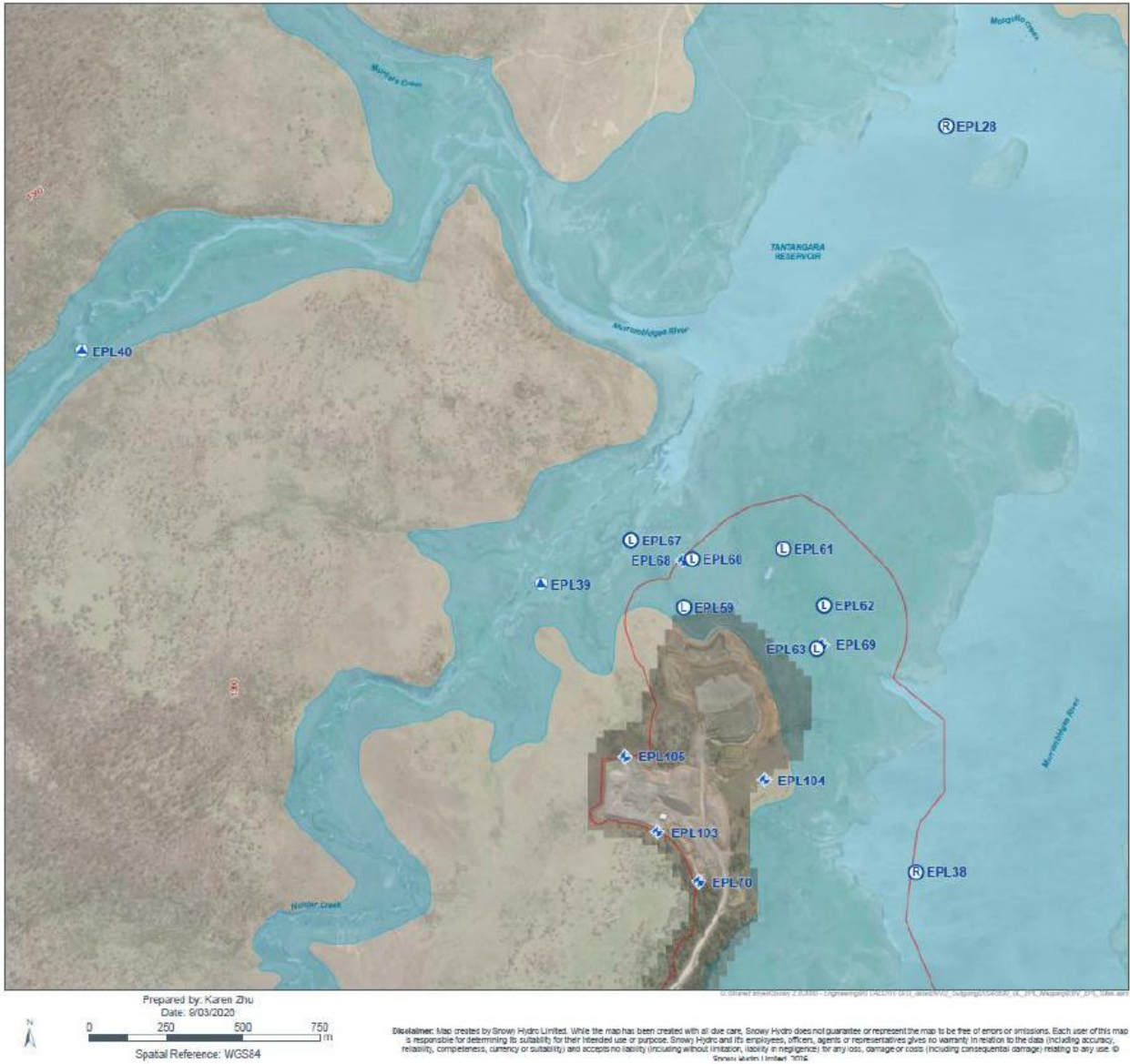
Legend

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

ID #	Location	Longitude	Latitude	Feature
EPL29	Tantangara	148.652976	-35.793334	Reservoir
EPL30	Tantangara	148.652901	-35.801362	Surface water
EPL31	Tantangara	148.649474	-35.806115	Surface water
EPL32	Tantangara	148.658771	-35.789504	Reservoir
EPL33	Tantangara	148.664114	-35.795317	Surface water
EPL46	Tantangara	148.657	-35.795	Diffusion Point
EPL50	Tantangara Reservoir	148.651	-35.791	WTP - Discharge Point
EPL51	Tantangara	148.659112	-35.794459	Reservoir
EPL129	Tantangara Reservoir	148.65712	-35.793106	Reservoir



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EPL Locations

Tantangara Emplacement

Legend

Groundwater

Surface water

Leachate water

Reservoir

Construction Envelope

Access / Construction Tunnel

Hydraulic Tunnel

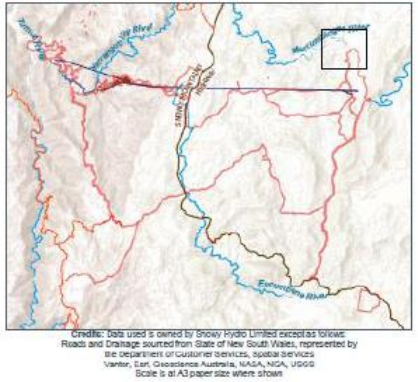
Primary Road

Arterial Road

Drainage

Major Contour (50m)

ID #	Location	Longitude	Latitude	Media
EPL28	Tantangara	146.653607	-35.747597	Reservoir
EPL38	Tantangara	146.653935	-35.769468	Reservoir
EPL39	Tantangara	146.633337	-35.761213	Surface water
EPL40	Tantangara	146.622854	-35.754804	Surface water
EPL59	Tantangara	146.699495	-35.763907	Leachate water
EPL60	Tantangara	146.694723	-35.766387	Leachate water
EPL61	Tantangara	146.648002	-35.766057	Leachate water
EPL62	Tantangara	146.648503	-35.761683	Leachate water
EPL63	Tantangara	146.640257	-35.762363	Leachate water
EPL67	Tantangara	146.645513	-35.759873	Leachate water
EPL68	Tantangara	146.649412	-35.769452	Groundwater
EPL69	Tantangara	146.649502	-35.762342	Groundwater
EPL70	Tantangara	146.645177	-35.768867	Groundwater
EPL103	Tantangara	146.643667	-35.768424	Groundwater
EPL104	Tantangara	146.647485	-35.768857	Groundwater
EPL105	Tantangara	146.643440	-35.764223	Groundwater





EPL Locations
Marica

Legend

- ◆ Groundwater

▲ Surface water

⊙ Leachate water

□ Construction Envelope

— Access / Construction Tunnel
- Hydraulic Tunnel

— Primary Road

— Arterial Road

— Drainage

— Major Contour (50m)

ID #	Location	Longitude	Latitude	Media
EPL26	Marica	148.488265	-35.79435	Surface water
EPL27	Marica	148.48821	-35.79447	Surface water
EPL71	Marica	148.452542	-35.786057	Surface water
EPL72	Marica	148.464127	-35.786946	Groundwater
EPL99	Marica	148.463240	-35.785469	Leachate water
EPL100	Marica	148.461039	-35.785835	Leachate water
EPL101	Marica	148.461624	-35.786252	Leachate water
EPL64	Marica	148.456856	-35.784402	Groundwater
EPL65	Marica	148.449348	-35.786373	Groundwater
EPL66	Marica	148.445797	-35.783195	Groundwater



Prepared by: Karen Zhu
Date: 9/03/2026
Spatial Reference: WGS84

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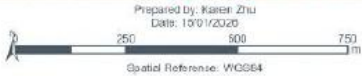


EPL Locations
Nungar Creek

Legend

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

ID #	Location	Longitude	Latitude	Media
EPL34	Nungar Creek	148.633218	-35.865454	Surface water
EPL35	Nungar Creek	148.632658	-35.865164	Surface water



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EPL Locations
Rock Forest

Legend

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

ID #	Location	Longitude	Latitude	Media
EPL36	Rock Forest	148.65727	-35.952445	Surface water
EPL37	Rock Forest	148.675353	-35.94766	Surface water
EPL76	Rock Forest	148.667612	-35.949055	Leachate water
EPL123	Rock Forest	148.651442	-35.949692	Groundwater
EPL124	Rock Forest	148.652695	-35.948896	Groundwater
EPL125	Rock Forest	148.66671	-35.951806	Groundwater
EPL126	Rock Forest	148.669243	-35.949814	Groundwater
EPL127	Rock Forest	148.674808	-35.947165	Groundwater



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