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REPORT

QUARTERLY ENVIRONMENTAL WATER REPORT MARCH 2025 – MAY 2025

S2-FGJV-ENV-REP-0131

REV A

JULY 2025

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	
ВоМ	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.

2. PURPOSE

This Environmental Water Report has been prepared to satisfy the reporting requirements in the Main Works – Water Management Plan (WMP) and to meet Infrastructure Approval CSSI 9687 (CoA) Schedule 3, Condition 31(c)(d) which requires publicly available reporting of the outcomes of the WMP. This Environmental Water Report is intended to provide commentary on the performance of the monitoring programs as part of the WMP (identified in Table 2-1).

A report detailing the management of the SHL controlled groundwater network is to be provided separately by SHL.

Table 2-1: Monitoring Overview

Aspect	Objective		
Surface Water Monitoring Program			
Routine receiving surface water quality monitoring	Inform and assess the performance of management processes/measures that seek to minimise the Project's impact on surface water quality		
Event based wet weather overtopping water quality monitoring	 Help determine source and extent of any water quality changes Collect baseline data to characterise water quality and determine site specific values 		
Groundwater Monitoring Program			
Groundwater quality monitoring	Inform and assess the performance of management Processes/measures that seek to minimise the Project's impact on regional and level (including allumin) agrifuse and CDEs.		
Water extraction monitoring	 regional and local (including alluvial) aquifers and GDEs Inform and assess water consumption, site water balance and compliance with water access licences 		

3. OVERVIEW

3.1. Reporting Period

This Environmental Water Report covers the monitoring period from 01 March to 31 May 2025.

3.2. Construction Progress

Table 3-1 summarises the key construction activities which have been undertaken during the reporting period.

Table 3-1: Key Construction Activities

Location	Key Construction Activities
Lobs Hole	 ECVT / MAT PORTAL Basin liner upgrades complete. Drilling subcontractor's scope complete at Marica West, the area has been deconstructed. MAT portal spoil yard construction works ongoing. MAIN OFFICE Construction works on structural office complete, office fit out and service connections on going. Septic and sewerage installation complete. Car park and pad expansion complete.
	 MAIN YARD Coverings installed over Pad D storage area within proximity to MY07.
	 GF01 Spoil placement practically completed with final landform implementation works underway. GF01 leachate basin relined and sealed. Basin F10.5 reconstructed and relined.
	 TALBINGO Stage 2 excavation is ongoing. Transition C1 Invert slab CS01 completed. Preparation works for micro piling scope commenced.
	 RAVINE BAY Placement of spoil across GCL lined portions of stage 1. lined cells ongoing. Further GCL liner installations across Cell 2 and 3. Leachate basins SB02 and SB03 constructed. Middle creek Bridge construction works, including rock filter dam.
Marica	 Civil works associated with TBM 4 works progressing. Clearing and Grubbing works and civil preparation works complete for all temporary spoi placement pads. Sediment and leachate basin constructions complete. Adit portal excavations ongoing. Marica camp expansion works continuing. Groundwater monitoring bores BH5411, BH5412, BH5413 installed and commissioned. USS excavation works ongoing.
Rock Forest	Construction of access roadway to PSE area complete. No further works occurred throughout the reporting period.

Location	Key Construction Activities
Tantangara	 Construction of GCL lined PSE. Including 2 lined leachate basins and works progressed to include additional lined leachate basins completed and GCL lined cells nearing capacity. S2 expansions works commenced. Intake stage 2 works ongoing, with Stage 3 under review by SHL.

4. WEATHER CONDITIONS

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

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

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

A summary of climate data for the ravine and plateau areas is provided in Table 4.1.

Table 4-1: Weather Conditions

Parameter Lobs Hole ¹		Marica (Cabramurra)			Tantangara ²				
	Mar	Apr	May	Mar	Apr	May	Mar	Apr	May
Temperature									
Mean maximum (°C)	28.1	22.7	17.3	20.3	15.2	10.4	24.3	18.7	13.9
Mean minimum (°C)	12.3	7.1	2.9	11.3	7.8	4.0	8.6	3.8	0.5
Rainfall									
Monthly	62.4	12	46.8	0	0	41.4	74.2	35.2	83.8
Long Term Average	55.6	59.4	75.4	86.5	77.7	90	56.3	46.7	47.3

^{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.

Weather conditions observed during the reporting period were typical of the transition from the summer weather influenced systems into the cooler autumn conditions across the Snowy Mountains. Autumn reflective conditions such as decreasing maximum temperatures and potential rainfall volume reductions across sites throughout the reporting period.

The highest mean temperatures observed across Lobs Hole (28.1°C), Marica (20.3°C) and Tantangara (24.3°C) were recorded during March prior to a downward trajectory throughout the remainder of the reporting period.

The total rainfall volumes for each month are notably different from the previous reporting period with Lobs Hole recording a highest monthly rainfall volume of 62.4 mm, Tantangara recording 83.8 mm and Marica recording only 41.4 mm following two months of no rainfall recordings.

SURFACE WATER MONITORING PROGRAM

5.1. Surface Water Quality

Routine surface water monitoring is undertaken in accordance with CoA Condition 31 and Environmental Protection Licence 21266 (EPL - 21266) to determine if project activities may be promoting negative impacts to receiving water quality and the adopted Water Quality Objectives (WQO). The NATA accredited laboratory analytical results have been included in Appendix B.

Publicly available surface water quality monitoring results undertaken in accordance with EPL - 21266 can be accessed through the SHL website.

Throughout the reporting period, temperatures in tributaries such as the Yarrangobilly River, Wallaces Creek and Nungar Creek were observed to decrease from period commencement to conclusion. Tributary temperatures in March are understood to influence the lingering algal presence observed in both reservoir water bodies in the early stages of the reporting period. This is consistent with frequency of Dissolved oxygen (DO) reports below the acceptance criteria during the early stages of the reporting period and the reduction in frequency as the temperatures dropped in the subsequent months.

Nutrient concentrations were typically reflective of available water quantities, flow velocities, animal and plant matter presence (within observable proximity to sample collection) in tributary and Reservoir locations, with exception to location immediately adjacent or within proximity to emplacement areas (such as EPL24).

Examples of natural influences are consistently reported within EPL31 (up gradient of works), EPL34 (up gradient of works), EPL35 (down gradient) and EPL36 (up gradient of works) which contain minor nutrient concentrations, low DO, pH and elevated turbidity (at times) irrespective of being above or below gradient to the project works.

Other such influences could be proximity to spoil emplacement areas and overtopping leachate or sediment basins such as EPL122.

5.2. 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. Sediment basins for the Project have been designed to meet, at a minimum, the 85th percentile 5-day rainfall volume (mm). The respective volumes are listed below in Table 5-1.

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 and Marica	28.1	35.6	49.0
Upper Eucumbene River	Surface works between Marica and the Snowy Mountain Highway	35.2	43.4	56.9
Tantangara construction compound	Surface works adjacent to the southern portion of Tantangara Reservoir	30.5	37.0	51.0
Goorudee Rivulet	Surface works at Rock Forest	20.0	25.7	36.1

During the reporting period, occurrences of rainfall exceeding site design capacities of the 85th percentile 5 – day rainfall and resulting in a basin overtopping are listed below:

- 23 May 2025 Tantangara Batch plant and CH1000 basins overtopped following 49.4 mm of rainfall since.
- 27 May 2025 Lobs Hole Basin 10b overtopped following a total of 41.6 mm of rainfall since 22 May 2025.
- 28 May 2025 Lobs Hole EPL84 overtopped following a total of 45 mm of rainfall since 22 May 2025.

Following the design exceedances across Lobs Hole and Tantangara, basic physio-chemical and comprehensive analytical results reported pH, turbidity, electrical conductivity, and dissolved oxygen (DO) levels outside the acceptability limits of the adopted WQO's. Comprehensive results typically reported nutrient conditions outside acceptability ranges alongside key dissolved metals.

In response to these conditions, water samples were collected for analysis and the EPA was notified of the releases in accordance with R4.1 of EPL 21266.

GROUNDWATER MONITORING PROGRAM

6.1. Groundwater Quality

Exceedances in EC, pH, and DO nutrients were frequently recorded across project sites with the most pronounced fluctuations observed down gradient of target spoil emplacement works or within locations under TARP management, such as EPL24

Key observations throughout the reporting period continued to include frequent sedimentation load commentary, which was accompanied by nutrient presences, dissolved and total select heavy metals and an overall increase in EC reports. Surface water ingress, maintenance requirements and upgradient occurrences are understood to influence such water quality behaviours.

Nutrient exceedances were reported in numerous groundwater sampling locations adjacent to emplacement areas during this reporting period. Groundwater has been extracted and treated from EPL68 and EPL105 while extraction pumps at EPL58, EPL95, EPL90, EPL87 and EPL81 are in the final stages of commissioning.

Three new groundwater monitoring bores were commissioned in Marica during this reporting period to ensure comprehensive monitoring of the TBM 4 site.

Bore maintenance and development works were undertaken at Ravine Bay, key GF01 bores and within Marica groundwater locations to realign reporting accuracies throughout these locations. Further maintenance works will be occurring in the next reporting period.

6.2. Groundwater Levels

Groundwater level monitoring is undertaken in accordance with the Groundwater monitoring program to determine groundwater drawdown as a result from the Project.

6.3. Groundwater Inflows

Groundwater inflow into the tunnels is monitored during construction. This data is required to monitor the volume of extracted groundwater against water access licence limits (Table 6-1).

Table 6-1: Water Access Licence

Water Access Licence	Project	Water Source	Share (ML)
WAL42407 – Specific Purpose Access Licence	Exploratory Works	Upper Tumut water source	227
WAL42408 – Groundwater Licence	Exploratory Works	Lachlan Fold Belt MDB	0
WAL42960 – Groundwater Licence	Exploratory Works	Lachlan Fold Belt MDB	354
RO13-19-093 – via Controlled Allocation	Main Works	Lachlan Fold Belt MDB	3,375
RO1-19-092 – via Controlled Allocation	Main Works	Lachlan Fold Belt South Coast	1,722
Specific Purpose Access Licence	Main Works	Tantangara Water Source	532

7. TRENDS

The Mann-Kendall statistical analysis test has been chosen to assess trends within the last six months of water monitoring data. Mann-Kendall is non-parametric test that assesses monotonic trends over time; identified as increasing, decreasing, or showing no significant trend. This test has been selected because it does not assume a specific distribution of the data and is robust against outliers, making it suitable for environmental datasets that may exhibit non-normal behaviour.

Data from the previous quarter (six months total) of water monitoring data was analysed to provide context to the March to May quarter and ensure sufficient data is available for most sites.

7.1. Decreasing Trends

TSS: EPL104, EPL126, EPL127, EPL58, EPL68, EPL82, EPL83, EPL87, EPL91, EPL92, EPL95, EPL97

Hardness as CaCO3: EPL124, EPL24, EPL36, EPL37, EPL68, EPL86, EPL89, EPL92, EPL96, EPL27

Ammonia as N: EPL41, EPL84

Nitrite + Nitrate as N (NOx): EPL10, EPL101, EPL115, EPL122, EPL123, EPL127, EPL128, EPL15, EPL16, EPL24, EPL35, EPL37, EPL41, EPL5, EPL52, EPL68, EPL80, EPL81, EPL82, EPL86, EPL89, EPL91, EPL94, EPL96, EPL97

Kjeldahl Nitrogen Total: EPL126, EPL31, EPL37, EPL39, EPL41, EPL50, EPL69, EPL87, EPL88, EPL97

Nitrogen (Total): EPL10, EPL122, EPL126, EPL31, EPL37, EPL41, EPL50, EPL68, EPL86, EPL89, EPL96

Reactive Phosphorus (Filtered): EPL10, EPL104, EPL105, EPL106, EPL113, EPL117, EPL123, EPL124, EPL128, EPL14, EPL15, EPL24, EPL27, EPL36, EPL37, EPL39, EPL41, EPL5, EPL52, EPL56, EPL58, EPL68, EPL69, EPL80, EPL81, EPL82, EPL84, EPL86, EPL89, EPL90, EPL92, EPL93, EPL94, EPL95, EPL97, EPL99

Phosphorus (Total): EPL127, EPL29, EPL34, EPL58, EPL83, EPL87, EPL95

Nitrate (as N): EPL10, EPL101, EPL115, EPL122, EPL123, EPL127, EPL128, EPL16, EPL24, EPL35, EPL41, EPL52, EPL68, EPL80, EPL82, EPL86, EPL89, EPL91, EPL94, EPL96, EPL97

Nitrite (as N): EPL24, EPL27, EPL41, EPL84, EPL86, EPL89, EPL91, EPL92, EPL97

Aluminium: EPL104, EPL14, EPL16, EPL51, EPL58, EPL82, EPL91, EPL92, EPL97

Aluminium (Filtered): EPL107, EPL123, EPL128, EPL30, EPL31, EPL32, EPL34, EPL35, EPL38, EPL46, EPL51, EPL69, EPL84, EPL85, EPL90

Arsenic: EPL104, EPL58, EPL92, EPL99

Arsenic (Filtered): EPL100, EPL101, EPL36, EPL80, EPL92, EPL93, EPL97

Calcium: EPL27

Chromium (hexavalent): EPL83

Chromium (hexavalent) (Filtered): EPL101, EPL84

Chromium (III+VI): EPL103, EPL104, EPL29, EPL58, EPL68, EPL82, EPL84, EPL92, EPL97

Chromium (III+VI) (Filtered): EPL101, EPL106, EPL52, EPL58, EPL84, EPL87

Chromium (Trivalent): EPL123, EPL126, EPL127, EPL58, EPL70, EPL81, EPL82, EPL83, EPL84, EPL85, EPL86, EPL87, EPL89, EPL90, EPL91, EPL92, EPL93, EPL94, EPL95, EPL97

Copper: EPL56, EPL57, EPL68, EPL92

Copper (Filtered): EPL113, EPL114, EPL123, EPL56, EPL57, EPL68, EPL96

Iron: EPL104, EPL14, EPL16, EPL29, EPL32, EPL51, EPL58, EPL92, EPL97

Iron (Filtered): EPL10, EPL104, EPL107, EPL108, EPL109, EPL11, EPL30, EPL31, EPL36,

EPL46, EPL69, EPL86

Lead: EPL104, EPL57, EPL58, EPL80, EPL82, EPL91, EPL92

Manganese: EPL104, EPL106, EPL38, EPL41, EPL58, EPL68, EPL82, EPL88, EPL92, EPL94, EPL97

Manganese (Filtered): EPL104, EPL106, EPL113, EPL12, EPL14, EPL15, EPL30, EPL31, EPL38, EPL41, EPL52, EPL58, EPL8, EPL94, EPL97

Nickel: EPL103, EPL58, EPL68, EPL82, EPL88, EPL92, EPL97

Nickel (Filtered): EPL68, EPL71, EPL82, EPL89, EPL92, EPL94, EPL97

Silver: EPL58

Zinc: EPL104, EPL41, EPL58, EPL82, EPL92

Zinc (Filtered): EPL102, EPL104, EPL106, EPL113, EPL123, EPL126, EPL128, EPL41, EPL68,

EPL72, EPL91, EPL92, EPL94, EPL97, EPL99

Thermotolerant Coliforms: EPL10, EPL11

7.2. Increasing Trends Identified:

TSS: EPL36, EPL81, EPL84, EPL86, EPL93

Hardness as CaCO3 (Filtered): EPL103, EPL105, EPL106, EPL12, EPL123, EPL14, EPL15, EPL16, EPL38, EPL6, EPL69, EPL8, EPL80, EPL81, EPL83, EPL87, EPL88, EPL9, EPL90, EPL95

Ammonia as N: EPL106, EPL113, EPL115, EPL116, EPL117, EPL123, EPL128, EPL46, EPL52, EPL56, EPL80, EPL83, EPL86, EPL91, EPL94, EPL96, EPL97

Nitrite + Nitrate as N (NOx): EPL106, EPL56, EPL57, EPL70, EPL85, EPL87, EPL90, EPL95

Kjeldahl Nitrogen Total: EPL106, EPL115, EPL38, EPL51, EPL57, EPL81

Nitrogen (Total): EPL103, EPL106, EPL115, EPL33, EPL38, EPL51, EPL57, EPL70, EPL81, EPL85, EPL95

Reactive Phosphorus (Filtered): EPL125, EPL72

Phosphorus (Total): EPL84, EPL86

Biochemical Oxygen Demand: EPL11, EPL28

Cyanide Total: EPL99

Nitrate (as N): EPL106, EPL56, EPL57, EPL70, EPL72, EPL85, EPL87, EPL90, EPL95,

Nitrite (as N): EPL52, EPL87

Aluminium: EPL124, EPL27, EPL52, EPL93

Aluminium (Filtered): EPL124

Arsenic: EPL80

Arsenic (Filtered): EPL106, EPL117, EPL125, EPL126, EPL32, EPL33, EPL38, EPL46, EPL5,

EPL51, EPL57, EPL81, EPL82, EPL83, EPL84, EPL85, EPL86, EPL88, EPL9, EPL91

Chromium (III+VI): EPL124, EPL24

Chromium (III+VI) (Filtered): EPL105, EPL122, EPL26, EPL27, EPL95

Chromium (Trivalent): EPL69

Copper: EPL101, EPL103, EPL124, EPL24, EPL50, EPL69, EPL93

Copper (Filtered): EPL103, EPL106, EPL122, EPL24, EPL50, EPL58, EPL69, EPL84, EPL85,

EPL90, EPL95

Iron: EPL27, EPL52

Iron (Filtered): EPL122, EPL24, EPL81, EPL83, EPL88, EPL91

Lead: EPL105, EPL124, EPL24

Lead (Filtered): EPL122, EPL24, EPL84, EPL86

Manganese: EPL10, EPL101, EPL27

Manganese (Filtered): EPL101, EPL123, EPL124, EPL126, EPL57, EPL81, EPL83, EPL84,

EPL87, EPL91, EPL96

Nickel: EPL105, EPL124, EPL24, EPL93

Nickel (Filtered): EPL100, EPL105, EPL24, EPL58, EPL81, EPL83, EPL84, EPL85, EPL87,

EPL93, EPL96, PSE L1

Silver: EPL124, EPL69, EPL93 Zinc: EPL101, EPL105, EPL124

Zinc (Filtered): EPL100, EPL105, EPL122, EPL27, EPL37, EPL81, EPL83, EPL84, EPL87, EPL88,

EPL96

E. Coli: EPL41

Thermotolerant Coliforms: EPL41

7.3. Trend Summary

Results from the trend analysis show a greater number of decreasing trends (338 total analyte occurrences) as opposed to increasing trends (199 total analyte occurrences). Notable increasing trends include Biochemical Oxygen Demand in the Talbingo and Tantangara Reservoirs associated with algae blooms, tributary and water body temperatures especially during the early reporting periods.

Nutrient presence in groundwater monitoring sites adjacent to GF01, target Mainyard locations and the Tantangara (temporary) spoil emplacement areas reported increasing trends consistent with surface lead water ingress within Locations within the Ravine Bay emplacement area were observed increasing however are attributed to the observed sediment load within the water column during the sampling of such areas.

8. CONCLUSION

The reporting period reflected typical autumnal climatic conditions in the Snowy Mountains, with declining temperatures and reduced rainfall across all monitoring sites. These seasonal changes, combined with decreased water flows contributed to exceedances in key water quality parameters such as pH, electrical conductivity, turbidity, and nutrients at several locations. Algae blooms observed in Tantangara and Talbingo Reservoirs during March and April were likely driven by elevated water temperatures and significantly low water volumes, with associated nutrient and dissolved oxygen fluctuations present. It is noted the blooms subsided with cooler temperatures in May.

Elevated nutrient levels and physicochemical parameters were consistent with conditions likely to occur in leachate basins as part of the design's intention.

Where groundwater monitoring has revealed nutrient exceedances adjacent to emplacement areas, extraction efforts are in action to prevent harm to the environment.

Bore maintenance is continuing to result in sediment load reductions across bore water columns and will continue throughout the Main Works phase of the Snowy 2.0 Project.

The commissioning of new monitoring bores in Marica enhances oversight of the temporary spoiling works understood to result from the Modification 3 TBM works.

Overall, the trend analysis indicated a higher frequency of decreasing analytical trends as opposed to increasing trends, though notable increases in Biochemical Oxygen Demand and nutrients are potentially linked to seasonal changes, algae activity, and sediment loads. These findings demonstrate the importance of continued monitoring, maintenance to mitigate impacts across the project.

APPENDIX A - BACKGROUND CONDITIONS

SURFACE WATER

	PLATEAU	RAVINE
Major watercourses1 (Dry weather)	• pH generally ranges between 6.2 and 8.5, with occasional lower and upper bound exceedances.	• pH ranges between 6.2 to 8.5, with occasional lower and upper bound exceedances.
	• Carbonate and salinity vary seasonally, with higher levels occurring in summer/autumn than winter/spring.	Low concentrations of suspended solids and low turbidity.
	Low concentrations of suspended solids and low turbidity. Total nitrogen and	• Carbonate and salinity vary seasonally, with higher levels occurring in summer/autumn than winter/spring.
	phosphorus concentrations exceeded WQO values occasionally.	Total nitrogen and phosphorus concentrations exceeded WQO values occasionally.
	Aluminium concentrations exceeded the WQO value on a frequent basis. Some exceedances were more than 4 x WQO values.	Aluminium concentrations in the Yarrangobilly River exceeded WQO values frequently in winter/spring and occasionally in summer/autumn. Some
	Copper, iron, lead and zinc concentrations exceeded WQO values on an occasional basis.	exceedances were more than 4 x WQO values.
	Other metals are generally below WQO values	Copper, chromium and zinc concentrations exceeded WQO values occasionally. Other metals
	The water quality during wet weather conditions is poorly understood. It is expected that concentrations of suspended sediment, nutrients, and some metals would be higher than dry weather concentrations.	The understanding of water quality during wet weather conditions is informed by data from monitoring undertaken in March and May 2019 following moderate rainfall. Available data indicates that receiving water quality during wet weather conditions is generally poorer relative to dry weather conditions with higher turbidity, lower pH, higher nutrients and metals such as copper and zinc. The median (from five samples) copper concentration was 6 x the WQO value.
Minor watercourses (near proposed surface infrastructure	The water quality of minor watercourses near the Tantangara construction compound is generally poorer than major watercourses, with total phosphorus, total nitrogen	The water quality of minor watercourses in Lobs Hole is generally poorer than major watercourses, with turbidity, total phosphorus, copper and zinc exceeding WQO values on a

	and aluminium all exceeding WQO values on a frequent basis. Turbidity, copper and iron exceeded WQO values on an occasional basis.	frequent basis. Total nitrogen, arsenic and aluminium exceeded WQO values on an occasional basis.
Runoff from existing disturbed areas	No sampling from existing disturbed areas has been undertaken at plateau.	Runoff samples were collected from existing disturbed areas in Lobs Hole such as access tracks and remnant copper mining areas in May and March 2019. Disturbed area runoff is characterised as being mildly acidic, having very high suspended sediment and turbidity levels, high total nitrogen and total phosphorous, and very high aluminium and copper concentrations. During wet weather conditions (when runoff is occurring to local watercourses in Lobs Hole), the water quality in the Yarrangobilly River is expected to be degraded as it passes through Lobs Hole.

Notes: 1. Major watercourses in plateau refer to the Murrumbidgee and Eucumbene rivers, Tantangara, Gooandra, Nungar and Kellys Plain creeks. Major watercourses in ravine refers to the Yarrangobilly River and Wallaces Creek.

- 2. General note: exceedances are described in the WCR as:
- frequent if the WQO value was exceeded in 20% or more of samples; and
- occasional if the WQO value was exceeded in at least one sample, but in less than 20% of samples.

RESERVOIR

TALBINGO

Water quality characteristics are described as follows:

- pH ranges between 6.3 and 8.2, with occasional lower and upper bound exceedances.
- Low concentrations of suspended solids and low turbidity.
- Carbonate and salinity vary seasonally, with higher levels occurring in summer/autumn, correl ating with the higher salinity of streamflow over summer and autumn months.
- Oxidised nitrogen concentrations exceeded WQO values frequently in winter/spring and occasionally in summer/autumn. This is the opposite trend to the Yarrangobilly River, were exceedances are more likely to occur in summer/autumn.
- Ammonia concentrations frequently exceed WQO values during winter/spring, corelating with t he elevated oxidised nitrogen.
- Total phosphorus concentrations exceed WQO values in all summer/autumn samples and in a pproximately 25% of winter/spring samples.
- All dissolved metal concentrations were below WQO values except for:
- *Copper and zinc concentrations exceeded WQO values frequently in summer/autumn and occasionally in winter/spring; and
- *Chromium (total) and lead concentrations occasionally exceeded WQO values in summer/aut umn.

It is noted that all but one of the copper and zinc exceedances occurred during March 2018 sampling, where 80% of samples exceeded the WQO values. Different analysis methods (consistent with the methods applied more broadly to EIS sampling) were applied to subsequent sampling (post-March 2018).

Reservoir water quality during and following wet weather conditions is poorly understood. There is potential for turbidity, nutrients, and some metals to fluctuate within watercourse inflow locations for several weeks following a substantial runoff event.

TANTANGARA

Water quality characteristics are described as follows:

- pH ranges between 6.6 and 8.0, with one lower and upper bound exceedance occurring.
- Low levels of suspended solids and low turbidity.
- Carbonate and salinity vary seasonally, with higher levels occurring in summer/autumn.
- Oxidised nitrogen and ammonia occasionally exceeded WQO values in summer/autumn.
- Total phosphorus frequently exceeded WQO values in summer/autumn and winter/spring while reactive phosphorus occasionally exceeded WQO values.
- All dissolved metal concentrations were below WQO values except for:
- * aluminium concentrations exceeded WQO values on a frequent babasis;
- *copper, iron and zinc exceeded WQO values on a frequent basis during summer/autumn; and
- *chromium (total), cobalt and lead exceeded WQO values on an occasional basis durin g summer/autumn.

It is noted that all of the copper exceedances and the zinc exceedances occurred during March 2018 sampling, where 100% of samples exceeded the WQO values. Different analysis met hods (consistent with the methods applied more broadly to EIS sampling) were applied to subsequent sampling (post-March 2018).

Reservoir water quality during and following wet weather conditions is poorly understood. The
potential for elevated turbidity, nutrients and some metals to occur near watercourse inflo
w locations for several weeks following a substantial runoff event.

APPENDIX B – EPL RESULTS

EPL 21266 in Situ Water Quality Measurements
EPL Monthly Monitoring March 2025
Table 1 - Surface Water Quality Data

Part	Table 1 - Surface Water O			- (6-1		61	Water Qualit						
Page	River and Minor Waterco	urses		Temp (°C)	90 - 110	DO (mg/L)	EC (μS/cm) 30 - 350	TDS (mg/L)	рн 6.5 - 8.0	Redox (mV)	Turbidity (NTU) 2 - 25		
Manual Content	Date and Time	EDI EIN- ID	Location Description	Town (tc)	DO (W)	DO (mark)	EC (ve (ven)	TDE (mall)	-11	Bardon (m) 0	Total diam (ACT)	Field Comments	Context
March Marc											Tarbiany (1110)		
Control 10 10 10 10 10 10 10 1	3/3/2025, 8:22 am	EPL5	Yarrangobilly River, upstream of the exploratory tunnel and construction pad	17.93	88.4	8.39	219	142	8.02	90	8	Clear sunny day, no recent rain, regular flow of water	
Property of the content of the con	3/3/2025, 9:03 am	EPL6	Wallaces Creek, upstream of Yarrangobilly River and Wallaces Creek confluence	16.42	63.3	6.19	123	80	7.9	118	3.7	Sunny clear day, regular flow clear water	
10	3/3/2025, 11:48 am	EPL8	Yarrangobilly River, downstream of Lick Hole Gully	21.61	68.7	6.05	221	144	7.86	139	4.6	the river, there seems to be runoff seeping into river from the ground at stairs shown in	
March Marc	3/3/2025, 11:17 am	EPL9	Yarrangobilly River, downstream of the accommodation camp and upstream of Talbingo Reservoir	20.07	84	7.62	177	115	8.14	146	10.1	Sunny clear day no wind no recent rain Water flow regular	Low DO aligns with reults upstream of works and reduced flow.
Miles Mile	3/3/2025, 8:43 am	EPL12	Yarrangobilly River, immediately downstream of portal pad	17.47	66.2	6.33	172	112	8.06	101	1.6	Clear sunny day, no recent rain, regular flow of water	Low DO aligns with reults upstream of works and reduced flow.
1. 1. 1. 1. 1. 1. 1. 1.	3/3/2025, 9:22 am	EPL14	Yarrangobilly River, downstream of road construction areas	17.39	107.4	10.29	166	108	7.99	121	3.3	Sunny day no wind regular flow of water	
1985 1985	3/3/2025, 9:47 am	EPL15	Yarrangobilly River, downstream of road construction areas	17.77	71.5	6.8	170	1.7	8.05	125	1.7	Sunny clear day, no wind, no recent rain, regular flow of water	
1.00 1.00	3/3/2025, 12:08 pm	EPL16	Yarrangobilly River, downstream of road construction areas	22.66	65.2	5.63	175	114	8.25	137	3.3	Clear sunny day no wind no recent rain, regular flow of river	Low DO and high pH aligns with reults upstream of works and the
Mary Control	7/3/2025, 10:26 am	EPL24	Yarrangobilly River tributary (Watercourse 2), directly downstream of road	18.43	65.1	6.09	1,270.00	811	6.7	134	0.4	Sunny day, clear water, no smell, very low flow	This location has been an objective of constant monitoring and reporting. High EC potentially attributed to low flows at this location.
1.00 1.00	18/3/2025, 11:10 am	EPL26	Eucumbene River downstream of Marica Road	11.98	74.2	8	37	24	7.86	190	5.3	result. Cool sunny day slight breeze. Lower level of algae present compared to upstream.	conditions.
12-12 12-1	18/3/2025, 10:52 am	EPL27	Eucumbene River upstream of Marica Road	11	71.2	7.85	36	23	8.23	164	7.65		
1/1/15 1/1/15 1/1/15	1/3/2025, 9:07 am	EPL30	Kellys Plain Creek, downstream of accommodation camp and laydown areas	13.43	61.4	6.4	40	26	6.89	298	5.1	Sunny day, clear, slow flow, no smell	This location aligns with the upgradient conditions for March 2025.
17/205.753 in 17-13	1/3/2025, 8:49 am	EPL31	Kellys Plain Creek, upstream of accommodation camp and laydown areas	13.5			-					Sunny day, clear, slow flow, no odour	
1.00 1.00	1/3/2025, 8:24 am	EPL33	Murrumbidgee River, downstream of Tantangara reservoir outlet	17.83	68.3	6.49	31	20	7.23	239	13.2	Sunny day, clear water, slow flow, no odour	This location aligns with the upgradient conditions for March 2025.
1.1. 1.1.	1/3/2025, 7:35 am	EPL34	Nungar Creek, upstream of Tantangara Road	12.18	66.3	7.12	48	31	8.19	136	71.9		
19,000 1	1/3/2025, 7:48 am	EPL35	Nungar Creek, downstream of Tantangara Road	11.71	68.8	7.46	40.0	26	7.87	155	14.9		Low DO aligns with the upstream conditions for March 2025.
1/2/2005, 10-10 CP-12-20 Control	8/3/2025, 10:04 am	EPL 36	Camerons Creek, upstream of works in Rock Forest	16.06	58.2	5.74	52	34	7.29	126	7.8		
17.53 17.53 17.54 17.55 17.5	8/3/2025, 9:35 am	EPL 37	Camerons Creek, downstream of works in Rock Forest	15.75	63.6	6.31	54	35	7.35	145	9.2	Sunny day, slow and low flow, no odour	Low DO remains the historical data and aligns with the upgradient conditions for March 2025.
FR-56 GPES unfor water quanteem weet	4/3/2025, 10:43 am	EPL52	GF01 leachate basin	23.49	80.4	6.81	863.00	552	9.21	93	47.1	Smells like organic rotting subtly , Green tinge,Dry hot weather	The leachate storage infrastructure is expected to have spikes in insitu reading results.
FILSD GID Luffer water downstream FILSD Surface water downstream was from Tateragean emplacement area FILSD Surface water downstream was from Tateragean emplacement area FILSD Surface water downstream of Marka emplacement FILSD Surface water downstream was from Tateragean emplacement area FILSD Surface water downstream water from Tateragean emplacement FILSD Surface water downstream of Marka emplacement FILSD Surface water downstream water from Tateragean emplacement FILSD Surface water downstream water downstream water from Tateragean emplacement FILSD Surface water downstream water from Tateragean emplacement FILSD Surface water downstream water downst	-	EPL53	GF01 surface water upstream east		-			-		-	-	This location is dry	-
FR.67 Numger Creat surface water downstream well from Tantaingura emplacement area	-	EPL54	GF01 surface water upstream west	-	-	-	-	-		-	-	This location is dry	-
- FP.71 Surface water downstream of Marica emplacement	-	EPL55	GF01 surface water downstream	-	-	-	-	-	-	-	-	This location is dry	
13/3/2025, 2-26 pm ER\$4 f8 Basin 28.62 128.5 9.52 966.00 618 9.29 115 782 No rainfall in last 24 hrs The leachate storage infrastructure is expected to have spikes in sur reading results. 13/3/2025, 2-27 pm ER\$5 MYO'R Basin 23.51 56 4.75 561 339 8.85 129 1,000.00 Basin is currently being relined. Cannot take sample. 11/3/2025, 2-26 pm ER\$6 UKGOI Basin 27.8 80.4 6.29 1,130.00 72.4 8.67 147 56.5 No rainfall in last 24 hours The leachate storage infrastructure is expected to have spikes in sur reading results. 11/3/2025, 2-26 pm ER\$6 Exci blanket diversion monitoring under GFO1 liner	-	EPL67	Nungar Creek surface water downstream west from Tantangara emplacement area	-	-	-	-	-	-	-	-	The reservoir level at Tantangara is low and is not representative sample.	-
13/7/205, 2:17 pm EPLS MYO7 Basin 23:51 56 4.75 561 359 8.85 129 1,000.00 Basin is currently being relined. Cannot take sample. The leachate storage infrastructure is expected to have spikes in its reading results. 13/7/205, 2:26 pm EPLS LMS01 Basin 27.8 80.4 6.29 1,130.00 724 8.67 147 56.5 No reinfall in last 24 hours The leachate storage infrastructure is expected to have spikes in its reading results. EPLSS Mock blanket diversion monitoring under GFO1 liner	-	EPL71	Surface water downstream of Marica emplacement	-	-	-	-	-	-	-	-	Unable to access site due to land clearing activities.	-
13/3/205, 2:26 pm EP.86 URG01 Basin 27.8 80.4 6.29 1,130.00 724 8.67 147 56.5 No rainfall in last 24 hours The lackhate storage infrastructure is espected to have spikes in lature reading results. EP.98 Rock blanket diversion monitoring under GFO1 liner	13/3/2025, 2:06 pm	EPL84	F8 Basin	28.62	128.5	9.92	966.00	618	9.29	115	782	No rainfall in last 24 hrs	The leachate storage infrastructure is expected to have spikes in insitu reading results.
13/1/2025, 2/30 pm EPUSD No reaches in last 24 hours star reading results. EPUSD Rock blanket diversion monitoring under GFO1 liner This location is dry Agreen/grey tings. No oder, Sunny cool morning. No wind, Evidence of grime/guark on the surface. Too low to sample EPUSD Marica Leachete Basin Turkey's Next 12.29 69.8 7.46 511 327 10.45 59 370 Agreen/grey tings. No oder, Sunny cool morning. No wind, Evidence of grime/guark on the surface. EPUSD Marica Leachete Basin Shaft	13/3/2025, 2:17 pm	EPL85	MY07 Basin	23.51	56	4.75	561	359	8.85	129	1,000.00	Basin is cutrently being relined. Cannot take sample.	The leachate storage infrastructure is expected to have spikes in in- situ reading results.
Agree/grey ting. No odor, Sunny cool morning. No wind. Evidence of grime/grank on the string to the sediment basin. Water was taken for transmit surface. Too low to sample FP100 Marica Leachate Basin Shaft Too low to sample FP1101 Marica Leachate Basin Spoil Pad Too low to sample Due to leachate management process upgrades, this location managed at water levels that prohibit water sampling. FP1101 Marica Leachate Basin Spoil Pad Too low to sample Due to leachate management process upgrades, this location managed at water levels that prohibit water sampling.	13/3/2025, 2:26 pm	EPL86	LHG01 Basin	27.8	80.4	6.29	1,130.00	724	8.67	147	S6.5 No rainfall in last 24 hours		The leachate storage infrastructure is expected to have spikes in insitu reading results.
18/3/2025, 9:50 am EP-99 Marica Leachete Basin - Turkey's Nest 12:29 69:8 7.46 511 327 10.45 59 10.45 59 10.45 59 10.45 59 10.45 59 10.45 10.45 59 10.45 10	-	EPL98	Rock blanket diversion monitoring under GF01 liner	-	-	-	-	-		-	-	This location is dry	
EPLIDI Marica Lexchate Basin Spoil Pad	18/3/2025, 9:50 am	EPL99	Marica Leachete Basin-Turkey's Nest	12.29	69.8	7.46	511	327	10.45	59	170		accumulating in the sediment basin. Water was taken for treatment at the process water treatment plant or re-use where parameters
ex-Luci Montrica Lescribite asiant Spoin read	-	EPL100	Marica Lower Leachate Basin USS Shaft	-	-	-	-	-	-	-	-	Too low to sample	Due to leachate management process upgrades, this location is managed at water levels that prohibit water sampling.
	-	EPL101	Marica Leachate Basin Spoil Pad	-	-	-	-	-	-	-	-	Too low to sample	Due to leachate management process upgrades, this location is managed at water levels that prohibit water sampling.
	5/3/2025, 8:10 am	EPL106	Ravine Bay Leachate basin 1	21.14	101.9	9.02	1,379.00	875	7.66	196	20.8	Clear, no odour, 95% full	The leachate storage infrastructure is expected to have spikes in insitu reading results.

This location has been an objective of constant monitoring and reporting.
Context
rning. No odor. Some visible gunk around the arc consistent with upgradient conditions in the Yarrangobilly River for March 2025.
ut no sheen. The dusk build up was a lot where the wind was less. There is a slight r. No odor. I Elevated EC and pH align with results upstream of works. EC and pH r. No odor. I No odor. I Elevated EC and pH align with results upstream of works. EC and pH align with
n. No odor. Rain over the weekend. This sample point is upstream of works and is therefore representative of background conditions.
Foggy day. Rain last weekend. This sample point is upstream of works and is therefore representative of background conditions.
No odor. Rain last weekend. This location aligns with the upgradient conditions for March 2025.
Low DO and elevated EC with turbidity can be attributed to low reservoir levels in preparation for intake works.
Fig. Light winds, picking up. Visibly clear Low DO and pH can be attributed to low reservoir levels in preparation for intake works.
er level, foam observed on surface. Visible Low DO and pH with elevated EC can be attributed to low reservoir levels in preparation for intake works.
Foggy day. Rain last weekend. The elevated pH can be attributed to the significant water level reduction and changes in the surrounding conditions in March 2025.
Foggy day. Rain last weekend. The elevated pH can be attributed to the significant water level reduction and changes in the surrounding conditions in March 2025.
ralgae on the surface. No works going on at dool morning. No odors. Low DO and elevated EC align with results upstream of works. EC is consistent with background conditions in the Yarrangobilly River.
norning. No visible sheen, algae,or bubbles on Low DO and elevated EC align with results upstream of works. EC is consistent with background conditions in the Yarrangobilly River.
dors. Breeze seen on water. Clear water. Cool Low DO and elevated EC align with results upstream of works. EC is consistent with background conditions in the Yarrangobilly River.
Context
es taken. Plant running for 6+ hours All reading are within WQO limits.
Context
Context All reading are within WQO limits.
All reading are within WQO limits.
All reading are within WQO limits. Context
All reading are within WQO limits. Context All reading are within WQO limits.
e f

EPL 21266 In Situ Water Quality Measurements

EPL 21266 In Situ W. EPL Monthly Monitorin		easurements										
15/3/2025, 8:50 am	EPL69	Tantangara groundwater downstream East	15.55	45.3	4.52	22	14	6.3	231	24.1	Silt colour was orange tinge. No obvious odor. Pse works developing up gradient/adjacent. Sunny dry day.	Low pH and EC met the historical ranges for March 2025. These fall in line with current seasonal changes.
15/3/2025, 11:46 am	EPL70	Tantangara groundwater upstream	18.1	45.4	4.3	121	79	6.49	217	142	Lots of settled orange coloured sediment at bottom of hydra sleeve. Clear at top. No odors. Hot sunny weather	This location is upgradient of works and therefore representative of background conditions.
18/3/2025, 9:25 am	EPL 72	Marica groundwater upstream	12.39	80	8.55	53	35	5.89	204	68	SWL-36.75m. Low turbidity orange tinge, clear at top. No odor. Sunny cool dry morning. Bon is in tact no leaks.	This location is upgradient of works and therefore representative of background conditions.
-	EPL73	Marica groundwater downstream	-	-	-	-	-	-	-	-		Due to the ongoing work in the PSE area, this location has been decommissioned and relocated. The new location will be sampled in the following months.
19/3/2025, 7:35 am	EPL80	LHG groundwater upstream	13.97	22.3	2.29	737	472	6.45	76	72.3	SWL-20.53m. Strong smell of sulphuric acid, Very orange, floating particles - hadn't settled. No recent rain, sunny days. Was a slight leak at the bottom of hydrasleeve. Base of the bore needs to be repaired, concrete cracked.	This location is upgradient of works and therefore representative of background conditions.
19/3/2025, 8:26 am	EPL81	LHG groundwater downstream	15.04	106.3	10.69	809	518	6.68	-28	209	SWL - 3.85m (top of casing). Swampy odour. Sediment present	Elevated EC aligns with results upgradient of works.
19/3/2025, 7:54 am	EPL82	MY groundwater upstream	13.76	18.7	1.92	2850	1820	7.08	8	29.1	SWL- 9.04m. Clear water, sulphuric acid smell. Dry sunny weather. Bore in tact, no holes.	This location is upgradient of works and therefore representative of background conditions.
19/3/2025, 7:55 am	EPL83	MY groundwater downstream	16.29	49	4.8	757	485	6.27	59	168	SWL - 3.89m (from casing). Turbid water. Swampy odour	Elevated EC and low pH align with results upgradient of works for March 2025, however borehole pump extraction method is currenth being upgraded.
19/3/2025, 7:05 am	EPL87	MY groundwater downstream	16.46	124.7	12.45	797	510	6.4	238	1000	SWL - 3.98m (top of casing)	Elevated EC and low pH align with results upgradient of works for March 2025, however borehole pump extraction method is currenth being upgraded.
19/3/2025, 7:40 am	EPL88	MY groundwater downstream	15.36	75.9	7.58	900	576	6.79	-62	14.1	SWL - 3.34m (top of casing). Sulfuric odour, visibly low NTU	Elevated EC aligns with results upgradient conditions for this reporting period.
19/3/2025, 7:08 am	EPL89	LHG groundwater downstream	15.23	39.1	3.92	303	197	6.86	230	6.86	SWL- 3.30 m . Turbidity towards bottom, orange tinge. Clear up top. No odors. No recent rain dry, cool weather.	All reading are within WQO limits.
4/3/2025, 8:42 am	EPL 90	GF01 groundwater downstream	18.09	47	4.44	53	34	5.84	252	96	SWL- 13.98 m depth. Water stank, smelled gross unt we purged it. Smell calmed down, but was still slightly there, Smelt like mangroves - rotting organic matter maybe. Not sulphuric, Sunny day, slight wind. Weather has been clear and dry recently	Low pH is generally consistent with the historical data for this location. Borehole extraction method is currently being upraded at this location
4/3/2025, 11:24 am	EPL 91	GF01 groundwater downstream	19.39	17.4	1.6	193	126	6.42	16	7.4	SWL- 8.62 m. No recent weather events	Low pH is generally consistent with the historical data for this location.
4/3/2025, 9:43 am	EPL 92	GF01 groundwater downstream	16.84	35.4	3.43	96	62	5.92	200	564	SWL- 13.62m. Sunny clear weather	Low pH is generally consistent with the historical data for this location.
4/3/2025, 9:50 am	EPL 93	GF01 groundwater downstream	16.93	10	0.97	207	134	6.41	17	160	SWL- 13.5 m. Super strong smell of sulphuric acid. More turbid than usual New works of taking height off of stockpile upstream.	Low pH is generally consistent with the historical data for this location.
4/3/2025, 10:06 am	EPL 94	GF01 groundwater downstream	16.67	15.7	1.52	142	92	6.39	80	50.4	WL- 13.34m depth of water. Works upstream of taking height off of gf01 Sunny dry weather otherwise	Low pH is generally consistent with the historical data for this location
4/3/2025, 10:52 am	EPL 95	GF01 groundwater downstream	21.79	18.2	1.59	592	397	6.13	202	79.1	SWL- 6.89 m depth. No new works, Sunny dry weather recently	Elevated EC and low pH have been consistent at this location for this reporting period. This location is currently undergoing upgrades in it extraction method.
4/3/2025, 10:21 am	EPL 96	GF01 groundwater downstream	18.5	50.7	4.72	1420	911	7.06	163	1000	SWL-5.10 m water depth. No new works around. Sunny dry weather recently Turbidity above 1000	Elevated EC is consistent with the historical ranges for March 2025.
4/3/2025, 11:43 am	EPL 97	GF01 groundwater downstream	19.48	53	5.8	377	245	6.39	109	7.4	SWL- 6.48 m. Dry sunny weather	Elavated EC and low pH have been consistent at this location for this current seasonal range.
-	EPL102	Groundwater monitoring associated with the Marica emplacement area on Marica Trail	-	-	-	-	-	-	-	-		Due to the ongoing work in the PSE area, this location has been decommissioned and relocated. The new location will be sampled in the following months.
15/3/2025, 9:58 am	EPL103	Upstream groundwater monitoring west of the Tantangara emplacement area	14.7	41.7	4.23	46	30	6.38	222	2.8	SWL- 11.19m. Visible particles floating around otherwise very clear water. No odor. Sunny dr day.	This location is upgradient of works and therefore representative of background conditions.
15/3/2025, 10:20 am	EPL104	Dowslope groundwater monitoring east of the Tantangara emplacement area	15.98	43.1	4.25	40	26	6.03	238	14.4	SWL-3.28 m.Rabbit warren running under the concrete that's securing the bore - exposed holes, Very low sediment seen at the bottom of the hydra sleeve otherwise the water was very clear. No odor. Sunny dry weather. Down gradient of pse development.	Low pH aligns with results upgradient of PSE.
15/3/2025, 10:53 am	EPL105	Dowslope groundwater monitoring east of the Tantangara emplacement area	16.85	46.5	4.5	163	106	5.78	243	15.6	Water was running slow out of pump, during rinsing the hose it was very cloudy. Once we rinsed the hose it was clear water flow. No odor. Sample taken from the end of the hose rather than the tap. Due to concern of water being syphined out of tank prev.	Low pH aligns with results upgradient of PSE.
20/3/2025, 11:31 am	EPL113	Upstream east monitoring of Ravine Bay emplacement area	14.73	126.5	12.82	127	83	7.39	201	566	3.14m SWL (from topof casing). Horiba 5 used to sample. Visibly clear water with slight swampy odour	All reading are within WQO limits.
20/3/2025, 10:25 am	EPL114	Upstream west monitoring of Ravine Bay emplacement area	16.66	88.8	8.63	327	213	7.55	-35	327	SWL -31.83 (from top of casing). Clear water, no sheen	All reading are within WQO limits.
20/3/2025, 11:14 am	EPL115	Downstream east monitoring of Ravine Bay emplacement area	15.88	97.5	9.64	298	194	7.5	-21	172	Sampled using Horiba 5. SWL 10.95m (from top of casing). Sulfuric odour. No sheen. Water visibly turbid	All reading are within WQO limits.
20/3/2025, 10:05 am	EPL116	Downstream west monitoring of Ravine Bay emplacement area	15.27	157.7	15.8	187	0.121	7.47	228	1,000	Horiba 5 used. SWL 8.49m (top of casing). Very turbid water. No sheen or odour	All reading are within WQO limits.
20/3/2025, 11:00 am	EPL117	Downstream monitoring of Ravine Bay emplacement area	15.66	108.4	10.77	121	10.77	7.41	-17	1000	15.87 SWL (from top of casing). Turbid and cloudy water. Swampy odour. Tested on Horiba 5	All reading are within WQO limits.

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 ElS.

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

Analyte	Unit	Limit of Reporting	Water Quality Objective Value*
Physiochemical			
pH	pH Unit		6.5-8
Electrical Conductivity	µ5/cm		30-350
Oxidation Reduction Potential	mV		No Water Quality Objective Value
Temperature	*C		No Water Quality Objective Value
Dissolved Oxygen	% saturation		No Water Quality Objective Value
Turbidity	NTU		No Water Quality Objective Value
aboratory analytes			
TSS	ma/L	5	No Water Quality Objective Value
Hardness as CaCO3	mg/L	1	No Water Quality Objective Value
Autrients		T i	
Ammonia as N	ug/L	10	13
Nitrite + Nitrate as N (NOx)	µg/L	10	15
Kieldahl Nitrogen Total	us/L	100	No Water Quality Objective Value
Nitrogen (Total)	us/L	100	250
Reactive Phosphorus	us/L	1	15
Phosphorus (Total)	ur/L	10	20
noreanics			
Cyanide Total	HE/L	4	4
tydrocarbons			
Oil and Grease	mg/L	1	5
Artals			
Aluminium (total)	wr/L	5	No Water Quality Objective Value
Aluminium (dissolved)	ur/L	5	27
Arsenic (total)	ur/L	0.2	No Water Quality Objective Value
Arsenic (dissolved)	us/L	0.2	0.8
Chromium (III+VII (total)	ur/L	0.2	No Water Quality Objective Value
Chromium (IIII+VII (dissolved)	ue/L	0.2	0.01
Conner (total)	ue/L	0.5	No Water Quality Objective Value
Copper (dissolved)	ue/L	0.5	1
Iron (total)	ue/L	2	No Water Quality Objective Value
Iron (dissolved)	ue/L	2	300
Lead (total)	ue/L	0.1	No Water Quality Objective Value
Lead (dissolved)	ue/L	0.1	1
Manganese (total)	us/t	0.5	No Water Quality Objective Value
Manganese (dissolved)	us/t	0.5	1,200
Nickel (total)	ua/L	0.5	No Water Quality Objective Value
Nickel (dissolved)	ur/L	0.5	8
Silver (total)	ur/L	0.01	No Water Quality Objective Value
Silver (dissolved)	ur/L	0.01	0.02
			No Water Quality Objective Value
Zinc (total)	ue/L	1	

forks																																
rater																																
	FPISE	EPLS7	EPL58	EPL68	EP1.69	EPL70	EPL72	EP1.73	EPL80	691.81	EP1.82	EPL83	EPL87	EPL88	EPL89	EPL 90	EPL 91	EPL92	EPL93	EPL94	EPL95	EPL96	EPL97	EPL102	EPL103	EPL104	EPL105	EP1.113	EPL114	EPL115	EPL116	EPL117
	EPLSS	trus/	EPLSO	EPLES	EPLES	EPLIV	EPL/Z	EPL/3	EPLAU	EP LB1	EPLBE	EPLAS	EPL87	EPLSS	EPLES	EPL 90	tre si	EPL92	trus	EPLS4	trus	EPL96	67.97	EPC 102	EPLIUS	EFFIOR	EPLINS	eruis	EPLII4	trus	EPLIE	erun
me*																																
	4/03/25 7.64	4/03/25	4/03/25	15/03/25	15/03/25	15/03/25	18/03/25		19/03/25	19/03/25	19/03/25	19/03/25	19/03/25	19/03/25	19/03/25	4/03/25	4/03/25	4/03/25	4/03/25	4/03/25	4/03/25	4/03/25	4/03/25		15/03/25	15/03/25	15/03/25	20/03/25	20/03/25	20/03/25	20/03/25	20/03/25
_	206	197	6.07 952	5.99 22	6.3	6.49 121	5.89 53	-	6.45 737	6.68 809	7.08 2850	6.27 757	6.4 797	6.79 900	6.86	5.84 53	6.42 193	5.92 96	6.41	6.39 142	6.13 592	7.06 5420	6.39 377		6.38	6.03	5.78 163	7.39 127	7.55 327	7.5 298	187	7.41
ilue	197	247	199	228	231	217	204		76	-28	8	59	238	-62	230	252	16	200	17	80	202	163	109		222	238	243	201	-35	-21	228	-17
ilue ilue	16.12	18.01	20.63	14.56	15.55	18.1	12.39	-	13.97	15.04	13.76	16.29	16.46	15.36	15.23	18.9	19.39	16.84	16.93	16.67	21.79	18.5	19.48		14.7	15.98	16.85	14.73	16.66	15.88	15.21	15.66
ilue	15.8	19.6	17.5	55.2	45.3	45.4	80	-	22.3	106.3	18.7	49	124.7	75.9	39.1	47	17.4	35.4	10	15.7	18.2	50.7	53		41.7	43.1	46.5	126.5	88.8	97.5	157.7	108.4
ilue	54.2	62.6	127	2.9	24.1	142	69	-	72.3	209	29.1	168	1000	14.1	6.86	96	7.4	564	160	50.4	79.1	1000	7.4		2.8	14.4	15.6	566	327	172	1000	1000
ine.	**		204	-6	23	30	-6		21	349	218	62	1.970		20	171	21	194	3,020	86	190	2.100	41		6	eS.	15	153		2,460	10,200	6.410
ilue ilue	106	105	391	d	9	30	11	- :	308	435	1.100	120	181	137	66	1/1	102	42	103	74	257	Z100 559	124	-	2	9	54	48	201	173	85	89
		100					-		300		1,100	- 110	- 101	100		- 10	100		102		- 10		- 114					-	101			
	10	40	20	10	10	<10	<10	-	30	110	100	10	30	230	10	10	60	20	60	90	20	30	<10		20	80	30	10	50	30	100	20
	50	960	44,400	840	160	930	20	-	<10	<10	<10	10	9,620	<10	<10	280	<10	40	<10	<10	29,500	54,100	140		690	260	7,510	40	-10	<10	40	<10
ilue	<100	100	5,900	<100	<100	<100	<100	-	200	300	400	300	3,400	400	100	<100	100	<100	<100	200	4,400	4,700	<100	-	<100	200	1,300	<1,000	400	<1,000	<10,000	<5,000
_	<100	1,100	50,300 <10	800 <10	200 <10	900 20	<100	-	200 <10	300 <10	400 <10	300 <10	13,000	400 20	100 <10	300 <10	100	<100	<100	200 <10	33,900 <10	58,800 <10	100 <10	-	700 <10	<10	8,800 <10	<1,000	<100 <10	<1,000	<10,000	<5,000
_	<10 <10	40	190	60	50	100	40		120	250	50	90	1 310	130	50	80	40	20	400	20	110	1360	110	-	40	50	60	r100	30	(100	4,540	6.420
_													.,		-											-					.,,	-
	- 64	- 4	- 4	<4	- 4	- 64	-64	-	- 64	- 44	- 4	- 4	- 64	- 4	- 64	- 64	-4	- 4	- 64	- 64	- 64	-44	- 64		- 64	- 44	- 64	- 64	- 44	- 64	- 64	-64
_																																
_	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	-	<1.0	<1.0	<1.0	41.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0		41.0	<1.0	<1.0	41.0	<1.0	×1.0	<1.0	<1.0
Date .	23	1.560	5.320	341	1.440	3.360	100																				_	_				-
-	- 4	-5	5	- 5	6	- 5	7		ď	- 6	- 4	- 6	- 4	- 6	ď	- 6	- 45	- 4	- 6	- G	- 4	- 45	ď		d	- 6	d	d	- 45	- 6	- 6	-6
ilue	<0.2	3.6	10.0	<0.2	0.5	0.4																										
_	<0.2	2.5	<0.2	<0.2	40.2	<0.2	<0.2		2.0	25.4	25.2	2.6	0.2	35.1	0.3	<0.2	1.4	0.4	2.8	1.1	0.5	0.2	0.2		40.2	<0.2	40.2	0.3	<0.2	0.3	1.0	0.9
ilue	<0.2	3.8	18.1	0.4	1.5	1.8			- :-							- :-		- :-	- :-	- :-	- :-					0.2						
iue	<0.2 5.2	45.1	9.5	40.2 40.5	4.1	<0.2 29.8	<0.2		-0.2	40.2	<0.2	<0.2	0.6	0.3	40.2	<0.2	<0.2	<0.2	-0.2	40.2	<0.2	0.6	<0.2		40.2	0.2	0.4	40.2	<0.2	<0.2	<0.2	<0.2
	2.2	2.0	<0.5	40.5	40.5	4.0	1.0		:05	<0.5	<0.5	2.4	<0.5	<0.5	1.8	<0.5	<0.5	<0.5	<0.5	40.5	0.6	0.6	<0.5		16.7	:0.5	40.5	2.0	<0.5	<0.5	40.5	<0.5
alue	18	1.610	10.700	173	979	2.580	-	-					-							-	-			-							-	-
	- 2	-2	- 2	a	9	-2	-(2		- 2	1.820	2.070	4	- 2	822	2	- 2	386	- 2	- 2	- 2	- 2	-2	- 2		a	-2	- 2	a	61	- 4	- 2	337
ilue	0.1	5.2	92.9	0.1	0.8	1.4		-		- 1	-																	- 1		- 1		
ilue	<0.1 14.6	40.1	0.1	40.1 3.8	<0.1 24.6	<0.1 53.6	<0.1		-0.1	40.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.3	-0.1	40.1	<0.1	<0.1	<0.1		40.1	<0.1	40.1	40.1	40.1	<0.1	<0.1	<0.1
iue.	10.6	61.2	37.3	1.4	2.1	2.7	4.6	-	174	211	162	48.4	54.4	151	3.1	5.9	567	45.0	155	352	550	0.8	415	-	0.8	13	10.0	92.3	356	467	114	991
lue	<0.5	5.4	19.8	0.6	1.2	1.4			- "	- "										1	-											
	<0.5	<0.5	3.4	<0.5	40.5	<0.5	0.9		14.1	2.3	0.9	6.3	1.7	2.6	1.3	2.2	0.8	1.4	1.2	1.1	8.1	1.2	2.7		40.5	<0.5	4.0	40.5	43.1	<0.5	40.5	1.9
ilue	<0.01	<0.01	0.96	<0.01	0.04	<0.01																										
	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	40.01	<0.01	<0.01	<0.01	_	40.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
ilue	1	14	45	4	- 6	- 61	4		d		- :		d	d	d				d	-	19	d	-	-	d		61	-		-	-	-

Water Quality Objective values for groundwater refer to the default trigger values for physical and chemical stressors in south-east Australia (upland rivers) f the rentaction of 99% of any pic species ANZECE / ARMA ANZ (2000), they are not collected living impressed by 592.21366.

Sample not required at this location

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

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

EPL10	EPL11	EPL28	EPL29	EPL32	EPL38	EPL39	EPL40	EPL46	EPL51	EPL107	EPL108	EPL109
2/3/25	2/3/25	26/3/25	26/3/25	26/3/25	1/3/25	9/3/25	9/3/25	26/3/25	26/3/25	16/3/25	16/3/25	16/3/25
8.1	8.01	7.82	8.42	8.18	7.94	6.34	8.95	8.5	8.43	7.79	7.72	7.77
102	63	27	26	26	36	29.6	31.7	26	26	40	38	36
191	192	130	140	14	174	664.1	625.5	139	140	193	190	180
22.97	22.84	18.43	20.14	20.19	22.63	17.6	16.5	20.29	20.21	22.01	21.97	21.7
64.8	70.6	93.2	95.5	91.5	54.1	62.1	75.3	97.1	93.8	72.6	67.8	75.6
1.61	1.15	7.3	13.4	12.9	8.8	7.17	2.63	12.5	10.7	0.76	0.85	0.66
<5	<5	<5	<5	<5	<5	<5	<5	<5	5	<5	<5	<5
46	28	9	9	9	9	13	16	9	9	14	14	14
<10	<10	70	<10	<10	20	30	140	90	<10	<10	40	20
<10	<10	10	<10	<10	<10	290	20	10	<10	<10	10	<10
100	100	300	400	400	300	100	200	300	400	100	100	100
100	100	300	400	400	300	400	200	300	400	100	100	100
<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
20	10	20	30	30	20	<10	<10	40	30	20	20	10
<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
				•		-			•			
<5	<5	12	9	11	40	26	19	10	10	<5	<5	<5
0.7	0.5	0.4	0.4	0.4	0.4	0.2	<0.2	0.4	0.4	0.3	0.4	0.4
<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
20	6	141	90	92	218	98	89	96	91	4	3	3
<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
<0.5	<0.5	0.6	<0.5	<0.5	1.7	3.4	3.4	0.5	<0.5	<0.5	<0.5	<0.5
<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
<0.01	< 0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
75	230	7	-	-	-	-	-	-	5	-	-	-
4	3	3	-	-	-	-	-	-	2	-	-	-

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

^{**} Algal blooms can present as feacal coliforms

^{^ 90}th percentile concentration limits / 100 percentile concentration limits

⁻ Sample not required at this location.

		ç.,	nowy Hydro 2.0 Main Works																																				
Mor	nthly EPL Samp		March 2025 - Surface Water																																				
Analyte	Unit	Limit of Reporting	Water Quality Objective Value*	EPLS	EPL6	EPL8	EPL9	EPL12	EPL14	EPL15	EPL16	EP124	EPL26	EPL27	EPL30	EPL31	EPL33	EPL34	EPL35	EPL36	EPL37	EPL52	EPL53	EPLS4	EPLSS	EPL67	EPL71	EPL84	EPL85	EPL86	EPL98	EPL99	EPL100	EPL101	EPL106	EPL110	EPL118	EPL120	EPL122
Field	1		1	3/03/25	3/03/25	1/01/25	3/03/25	3/03/25	1/01/25	3/01/25	1/01/25	7/01/25	18/03/25	18/03/25	1/03/25	1/03/25	1/03/25	1/01/25	1/01/25	8/03/25	8/03/25	4/01/25	Dry	Dry	Dry	Dry	Dry	13/03/25	13/03/25	13/03/25	Dry	18/03/25	Dry	Dry	5/3/25	Dry	Dry	Dry	7/01/25
nH			6.5-8	8.02	7.9	7.86	8.14	8.06	7.99	8.05	8.25	6.7	7.86	8.23	6.89	7.12	7.23	8.19	7.87	7.29	7.35	9.21	Dry	Dry	Dry	Dry	Dry	9.29	8.85	8.67	Dry	10.45	Dry	Dry	7.66	Dry	Dry	Dry	7.86
Electrical Conductivity	µS/cm		30-350	219	123	221	177	172	166	170	175	1270	37	36	40	32	31	48	40	52	54	863	Dry	Dry	Dry	Dry	Dry	966	561	1130	Dry	511	Dry	Dry	1379	Dry	Dry	Dry	539
Oxidation Reduction Potential	mV		No Water Quality Objective Value	90	118	139	146	101	121	125	137	134	190	164	298	285	239	136	155	126	145	93	Dry	Dry	Dry	Dry	Dry	115	129	147	Dry	59	Dry	Dry	196	Dry	Dry	Dry	123
	te.		No Water Quality Objective Value	17.93	16.42	21.61	20.07	17.47	17.39	17.77	22.66	18.43	11.98	11	13.43	13.5	17.83	12.18	11.71	16.06	15.75	23.49	Dry	Dry	Dry	Dry	Dry	28.62	23.51	27.8	Dry	12.29	Dry	Dry	21.14	Dry	Dry	Dry	17.55
Temperature Dissolved Oxygen	% saturation	-	90-110	88.4	63.3	68.7	84	66.2	107.4	71.5	65.2	65.1	74.2	71.2	61.4	69.4	68.3	66.3	68.8	58.2	63.2	80.4	Dry	Dry	Dry	Dry	Dry	128.5	56	80.4	Dry	69.8	Dry	Dry	101.9	Dry	Dry	Dry	78.8
Turbidity	% saturation NTU	-	90·110 2-25	8	3.7	4.6	-	1.6	3.3	1.7	3.3	0.4	5.3	7.65	5.1	8.8	13.2	71.9	14.9	7.8	9.2	47.1	Dry	Dry	Dry	Dry	Dry	782	1000	56.5	Ony	170	Dry	Dry	20.8	Dry	Dry	Dry	100
Laboratory analytes	HIU	-	-D	I⊢*	3.7	4.6	10.1	1.6	3.5	L/	3.5	0.4	3.5	7.65	5.1	6.8	15.2	/19	14.9	7.8	92	4/.1	ury	ury	ury	ury	ory	162	1000	50.5	ury	1/0	Jory	ory	20.8	Dry	ory	bry	200
Tes	mg/L		No Water Quality Objective Value	,	- 6	- 4	- 6	-4	4	-4	4	4	-65	-65	-65	36	-4	-4	-4	-46	- 6	24	Dry	Dry	Dry	Dry	Dev	223	418	*	Dov	72	Dry	Dry	6	Dry	Dry	Dry	87
Hardness as CaCO3	mg/L	1	No Water Quality Objective Value		60	90		87	85	85	85	330	18	18		13	9	16	16	17	17	260	Dry	Dry	Dry	Dry	Dry	44	31	217	Dry	158	Dry		420	Dry			
Nutrients	i		1	i 💳																																		_	
Ammonia as N	ug/L	10	13	20	10	20	<10	<10	10	<10	<10	10	20	<10	40	<10	20	80	30	20	20	390	Dry	Dry	Dry	Dry	Dry	20	50	20	Dry	130	Dry	Dry	<10	Dry	Dry	Dry	70
Nitrite + Nitrate as N (NOx)	uz/L	10	15	<10	<10	380	20	<10	10	10	20	61,400	<10	<10	10	<10	10	<10	<10	20	10	38,100	Dry	Dry	Dry	Dry	Dry	2,140	5,520	11,900	Dry	6,360	Dry	Dry	43,500	Dry	Dry	Dry	9,180
Kjeldahl Nitrogen Total	ME/L	100	No Water Quality Objective Value	<100	<100	<100	<100	<100	<100	100	<100	5,100	<100	<100	200	<100	300	400	300	100	300	7,000	Dry	Dry	Dry	Dry	Dry	800	1,400	1,700	Dry	2,200	Dry	Dry	6,600	Dry	Dry	Dry	400
Nitrogen (Total)	µg/L	100	250	<100	<100	400	<100	<100	<100	100	<100	66,500	<100	<100	200	<100	300	400	300	100	300	45,100	Dry	Dry	Dry	Dry	Dry	2,900	6,900	13,600	Dry	8,600	Dry	Dry	50,100	Dry	Dry	Dry	9,600
Reactive Phosphorus	μg/L	1	15	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	Dry	Dry	Dry	Dry	Dry	<10	20	<10	Dry	<10	Dry	Dry	<10	Dry	Dry	Dry	<10
Phosphorus (Total)	µg/L	10	20	10	30	50	40	<10	30	40	30	20	10	40	150	20	20	40	<10	40	30	30	Dry	Dry	Dry	Dry	Dry	150	160	90	Dry	130	Dry	Dry	20	Dry	Dry	Dry	200
Inorganics																																							
Cyanide Total	μg/L	4	4	- 64	- 44	- 64	<4	14	- 64	-64	- 64	<4	5	<4	<4	<4	- 44	- 64	- 64	-64	- 64	<4	Dry	Dry	Dry	Dry	Dry	- 64	- 64	-64	Dry	- 64	Dry	Dry	- 64	Dry	Dry	Dry	-04
Hydrocarbons				! └─																																			
Oil and Grease	mg/L	1	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	Dry	Dry	Dry	Dry	Dry	<1.0	<1.0	<1.0	Dry	<1.0	Dry	Dry	<1.0	Dry	Dry	Dry	<1.0
Metals				! —																																			
Aluminium (total)	μg/L	5	No Water Quality Objective Value	<u> </u>																		164	Dry	Dry	Dry	Dry													
Aluminium (dissolved)	µg/L	5	27	6	<5	<	<5	- 6	-6	6	6	<5	-6	<5	11	12	24	16	15	16	23	<5	Dry	Dry	Dry	Dry	Dry	19	19	5	Dry	65	Dry	Dry	45	Dry	Dry	Dry	- 6
Arsenic (total)	μg/L	0.2	No Water Quality Objective Value																			6.6	Dry	Dry	Dry	Dry												-	
Arsenic (dissolved)	μg/L	0.2	0.8	0.7	0.3	0.7	0.6	0.7	0.7	0.7	0.7	0.4	<0.2	<0.2	<0.2	<0.2	0.4	0.2	0.2	0.3	0.4	<0.2	Dry	Dry	Dry	Dry	Dry	20.5	21.9	6.2	Dry	1.4	Dry	Dry	2.3	Dry	Dry	Dry	0.3
Chromium (III+VI) (total)	μg/L	0.2	No Water Quality Objective Value	<u> </u>																		1.5	Dry	Dry	Dry	Dry													
Chromium (III+VI) (dissolved)	µg/L	0.2	0.01	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.4	0.3	0.3	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	Dry	Dry	Dry	Dry	Dry	8.6	15.6	9.3	Dry	76.6	Dry	Dry	2.1	Dry	Dry	Dry	<0.2
Copper (total)	µg/L	0.5	No Water Quality Objective Value	I —																		0.8	Dry	Dry	Dry	Dry												-	
Copper (dissolved)	µg/L	0.5	1	40.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	40.5	Dry	Dry	Dry	Dry	Dry	4.0	1.9	0.8	Dry	0.7	Dry	Dry	<0.5	Dry	Dry	Dry	<0.5
Iron (total)	µg/L	2	No Water Quality Objective Value	I —	-		-		-					-								132	Dry	Dry	Dry	Dry				-			-		-	-	-	+	
Iron (dissolved)	ид/L	2	300	-	22	11	12	6	8	9	13	2	22	15	46	35	145	213	221	324	269	<2	Dry	Dry	Dry	Dry	Dry	27	36	a	Ory	5	Dry	Dry	- 2	Dry	Dry	Dry	4
Lead (total)	µg/L	0.1	No Water Quality Objective Value	1 	-	-	-	1	-	-	-	- 1	- 1									0.1	Dry	Dry	Dry	Dry	-						-	-	<0.1	-	+	+	+ :-!
Lead (dissolved)	µg/L	0.1	No Market Contraction Chicago	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	Dry	Dry	Dry	Dry	Dry	<0.1	<0.1	<0.1	Dry	<0.1	Dry	Dry	<0.1	Dry	Dry	Dry	<0.1
Manganese (total)	µg/L µg/L	0.5	No Water Quality Objective Value 1.200	l	2.4	1.5	50	. 0.0			2.0	775	5.2	2.0	35	- 10						2.9	Dry	Dry	Dry	Dry	-		e05	-05		e0.5	-	Dov	<0.5	Dov	Dov	+-	40.5
Manganese (dissolved) Nickel (total)	µg/t	0.5	No Water Quality Objective Value	0.6	2.4	1.5	5.0	0.8	0.8	1.5	2.9	4/5	5.2	4.8	4.5	2.0	0.9	11.8	5.6	43.2	0.8	0.5	Dry	Dry	Dry	Dry	Ory	0.8	cu.5	cu.5	Ury	cul.5	Ory	Dry	-40.5	Dry	Ory	Dry	40.5
Nickel (dissolved)	ug/L	0.5	no water caracy Objective value	-0.5	<0.5	<0.5	<0.5	40.5	40.5	<0.5	<0.5	2.2	40.5	40.5	<0.5	<0.5	·0.5	:05	40.5	40.5	<0.5	40.5	Dry	Dry	Dry	Dry	Dov	12	0.6	0.6	0	<0.5	Dry	Dry	1.9	Dry	Dry	Dry	40.5
Nickel (dissolved) Silver (total)	ME/L	0.5	No Water Quality Objective Value	90.5	<0.5	<0.5	40.5	40.5	40.5	K0.5	K0.5	2.2	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.5	<0.01	Dry	Dry	Dry	Dry	Dry	1.2	0.5	0.6	Dry	<0.5	Dry	Dry	1.9	Dry	Dry	Dry	40.5
Silver (total) Silver (dissolved)	ug/L	0.01	No Water Quality Objective Value 0.02	40.01	e0.01	r001	*****	-	*****	*0.01	-001	*0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	e0.01	e0.01	<0.01	Dry	Dry	Dry	Dry	-	-	-001	e0.01	-	e0.01	-	Dov	<0.01	- Davi	Dov	Dov	·0.01
Zinc (total)	µg/t	0.01	No Water Quality Objective Value	<0.01	<0.01	<0.01	<0.01	<0.01	cust	<0.01	QUD1	<u.01< th=""><th><u.01< th=""><th><u.01< th=""><th><u.01< th=""><th><0.01</th><th><0.01</th><th><0.01</th><th><0.01</th><th><u.01< th=""><th><u.01< th=""><th><0.01</th><th>Dry</th><th>Dry</th><th>Dry</th><th>Dry</th><th>Ory</th><th><0.01</th><th><u.01< th=""><th><0.01</th><th>UTY</th><th><0.01</th><th>Ory</th><th>Dry</th><th>-0.01</th><th>Dry</th><th>Ory</th><th>Dry</th><th>40.01</th></u.01<></th></u.01<></th></u.01<></th></u.01<></th></u.01<></th></u.01<></th></u.01<>	<u.01< th=""><th><u.01< th=""><th><u.01< th=""><th><0.01</th><th><0.01</th><th><0.01</th><th><0.01</th><th><u.01< th=""><th><u.01< th=""><th><0.01</th><th>Dry</th><th>Dry</th><th>Dry</th><th>Dry</th><th>Ory</th><th><0.01</th><th><u.01< th=""><th><0.01</th><th>UTY</th><th><0.01</th><th>Ory</th><th>Dry</th><th>-0.01</th><th>Dry</th><th>Ory</th><th>Dry</th><th>40.01</th></u.01<></th></u.01<></th></u.01<></th></u.01<></th></u.01<></th></u.01<>	<u.01< th=""><th><u.01< th=""><th><0.01</th><th><0.01</th><th><0.01</th><th><0.01</th><th><u.01< th=""><th><u.01< th=""><th><0.01</th><th>Dry</th><th>Dry</th><th>Dry</th><th>Dry</th><th>Ory</th><th><0.01</th><th><u.01< th=""><th><0.01</th><th>UTY</th><th><0.01</th><th>Ory</th><th>Dry</th><th>-0.01</th><th>Dry</th><th>Ory</th><th>Dry</th><th>40.01</th></u.01<></th></u.01<></th></u.01<></th></u.01<></th></u.01<>	<u.01< th=""><th><0.01</th><th><0.01</th><th><0.01</th><th><0.01</th><th><u.01< th=""><th><u.01< th=""><th><0.01</th><th>Dry</th><th>Dry</th><th>Dry</th><th>Dry</th><th>Ory</th><th><0.01</th><th><u.01< th=""><th><0.01</th><th>UTY</th><th><0.01</th><th>Ory</th><th>Dry</th><th>-0.01</th><th>Dry</th><th>Ory</th><th>Dry</th><th>40.01</th></u.01<></th></u.01<></th></u.01<></th></u.01<>	<0.01	<0.01	<0.01	<0.01	<u.01< th=""><th><u.01< th=""><th><0.01</th><th>Dry</th><th>Dry</th><th>Dry</th><th>Dry</th><th>Ory</th><th><0.01</th><th><u.01< th=""><th><0.01</th><th>UTY</th><th><0.01</th><th>Ory</th><th>Dry</th><th>-0.01</th><th>Dry</th><th>Ory</th><th>Dry</th><th>40.01</th></u.01<></th></u.01<></th></u.01<>	<u.01< th=""><th><0.01</th><th>Dry</th><th>Dry</th><th>Dry</th><th>Dry</th><th>Ory</th><th><0.01</th><th><u.01< th=""><th><0.01</th><th>UTY</th><th><0.01</th><th>Ory</th><th>Dry</th><th>-0.01</th><th>Dry</th><th>Ory</th><th>Dry</th><th>40.01</th></u.01<></th></u.01<>	<0.01	Dry	Dry	Dry	Dry	Ory	<0.01	<u.01< th=""><th><0.01</th><th>UTY</th><th><0.01</th><th>Ory</th><th>Dry</th><th>-0.01</th><th>Dry</th><th>Ory</th><th>Dry</th><th>40.01</th></u.01<>	<0.01	UTY	<0.01	Ory	Dry	-0.01	Dry	Ory	Dry	40.01
Zinc (dissolved)	µg/L µg/L		No Water Quality Objective Value	 ; 	- 4	- 4	- 4	- 61	- 4	-			- 41	<1	. 8	- 61	- 41	- 61		- 41	d	- 2	Dry	Dry	Dry	Dry	Dev		-	-	Dry .	d	Dry	Dry	d	Dry	Dry	Dry	d

Water Quality Objective values for surface water refer to the default ringger values for physical and chemical stressors in south-east Australia (upland rivers) for the protection of 99% of aquatic opera ANIXCC / ANMCANZ (DOIS), they are not politicant limits imposed by EPI. 21266.
 Samplis not required

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

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

EPL 41	EPL 43	EPL 44	EPL 45	EPL 47	EPL 48	EPL 49	EPL 50
16/03/2025							12/03/202
-	0.0000	0.2650	0.0512	0.2177	0.0970	0.7472	-
-	-	-	-	-	-	-	-
7.84		-	-	-		-	7.92
6			-	-	-	-	18.6
507	-	-	-	-	-	-	701
25.15	-	-	-	-	-		16.1
73.6	-	-	-	-	-	-	55.2
0.9	-	-	-	-	-	-	0.53
	·	·					
<5	-	-	-	-	-	-	<5
<1	-	-	-	-	-	-	<1
40	-	_	_	-	-		<10
100	-	-	-	-	-		<10
<100	-	-	-	-	-	-	<100
100	-	-	-	-	-		<100
<10	-	-	-	-	-	-	<10
<10	-	-	-	-	-	-	10
	•	<u>'</u>			<u> </u>		
<4	-	-	-	-	-	-	<4
	·	·					
<1.0	-	-	-	-	-		<1
					<u> </u>		
<5	-		-	-	-	-	<5
<0.2	-		-	-	-		<0.2
<0.2	-		-	-	-	-	<0.2
<0.5	-		-	-	-	-	<0.5
<2	-		-	-	-	-	<2
<0.1	-		-	-	-	-	<0.1
<0.5	-		-	-	-	-	<0.5
<0.5	-		-	-	-	-	<0.5
<0.01	-		-	-	-	-	<0.01
<1	-	-	-	-	-	-	<1
	•			•		•	•
11.00	-	-	-	-	-	-	<1
<2	-	-	-	-	-	-	<1

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

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

- * Water Quality Objective values Treated Water reference the predicted values for physical and chemical stressors from the treatment plant as presented in the Main Works EIS.
- Samples not required
- 90 Percentile concentration limit/100 Percentile limit
- Inflows to STP and CWTP do not directly correspond to outflow at RO as much of the water is reused on site

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

Date
1/03/2025
2/03/2025
3/03/2025
4/03/2025
5/03/2025
6/03/2025
7/03/2025
8/03/2025
9/03/2025
10/03/2025
11/03/2025
12/03/2025
13/03/2025
14/03/2025
15/03/2025
16/03/2025
17/03/2025
18/03/2025
19/03/2025
20/03/2025
21/03/2025
22/03/2025
23/03/2025
24/03/2025
25/03/2025
26/03/2025
27/03/2025
28/03/2025
29/03/2025
30/03/2025
31/03/2025

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

EPL 44	EPL 45	EPL 47	EPL 48	EPL 49
	Discharg	e volume (M	egalitres)	
0.14	0.06	0.16	0.12	0.62
0.15	0.06	0.20	0.05	0.52
0.15	0.07	0.21	0.08	0.71
0.15	0.06	0.20	0.24	0.86
0.11	0.04	0.22	0.08	0.79
0.12	0.04	0.21	0.09	0.75
0.15	0.05	0.21	0.08	0.76
0.22	0.03	0.23	0.09	0.79
0.16	0.04	0.21	0.09	0.69
0.21	0.07	0.18	0.08	0.86
0.13	0.03	0.20	0.09	0.59
0.13	0.05	0.18	0.08	0.53
0.13	0.05	0.20	0.07	0.83
0.73	0.05	0.20	0.09	0.92
0.42	0.04	0.20	0.07	0.98
0.49	0.06	0.17	0.01	0.68
0.41	0.07	0.29	0.07	0.52
0.42	0.07	0.23	0.16	0.87
0.40	0.06	0.25	0.04	0.72
0.42	0.06	0.25	0.06	0.64
0.28	0.03	0.19	0.06	0.58
0.24	0.04	0.20	0.06	0.78
0.39	0.06	0.20	0.01	0.73
0.24	0.04	0.22	0.04	0.76
0.25	0.04	0.22	0.08	0.81
0.16	0.05	0.23	0.25	0.52
0.28	0.05	0.22	0.08	0.83
0.13	0.04	0.24	0.08	0.83
0.24	0.05	0.21	0.17	0.50
0.30	0.05	0.21	0.16	0.67
0.21	0.05	0.21	0.17	0.78

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

- * The maximum flow rate capacity for Lobs Hole STP/PWTP during the reporting month was 8.45 L/s
- The maximum flow rate capacity for Tantangara STP/PWTP during the reporting month was 11.34 L/s
- -- Water not discharged on this day

⁻ Water not discharged on this day

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

Table 1 - Surface Water Quality Data				Water Quality	Objectives (see no	te 1)			4
River and Minor Watercourses	Temp (°C)	DO (%)	DO (mg/L)	EC (µS/cm)	TDS (mg/L)	pH	Redox (mV)	Turbidity (NTU)	1
	-	90 - 110	-	30 - 350	-	6.5 - 8.0	-	2 - 25	1

River and Minor Waterco			Temp (°C)	DO (%) 90 - 110	DO (mg/L)	EC (μS/cm) 30 - 350	TDS (mg/L)	pH 6.5 - 8.0	Redox (mV)	Turbidity (NTU) 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
11/4/2025, 9:22 am	EPL5	Yarrangobilly River, upstream of the exploratory tunnel and construction pad	12.21	92.3	9.89	150	98	8.14	173	3.83	Clear day, no recent rain. Flow and water level average. Low turb. No odours. No unusual algae growth.	Results align with historically recorded data, and seasonal changes at time of sampling.
11/4/2025, 10:02 am	EPL6	Wallaces Creek, upstream of Yarrangobilly River and Wallaces Creek confluence	12.56	96.7	10.29	127	83	8.09	173	0.59	Clear day. No recent rain. Water level and flow average. No odour or unusual algal growth.	The results in this location is indicative of data recorded historically. The changes occurred in temperature and flow is in alignment with seasonal change.
11/4/2025, 11:35 am	EPL8	Yarrangobilly River, downstream of Lick Hole Gully	16.69	89.3	8.69	153	99	8.18	175	0.86	Clear day. Average flow and water level. No odour or unusual algae growth. Low turb.	The results align with historical data and are within expectations for seasonal change.
11/4/2025, 11:53 am	EPL9	Yarrangobilly River, downstream of the accommodation camp and upstream of Talbingo Reservoir	15.83	97.9	9.69	149	97	8.18	176	0.69	Sunny day. Water level and flow average. Low turb. No odour or unusual algae growth. No recent rain.	The results consistent with previous sample rounds and are within expectations for seasonal conditions.
11/4/2025, 9:42 am	EPL12	Yarrangobilly River, immediately downstream of portal pad	12.36	93.3	9.96	147	95	8.18	167	0.4	Sunny day. No recent rain. Water level and flow average. Low turb. No odour or unusual algae growth.	Results for this location are representative of previous rounds of sampling. Large decrease in temperature compared to last month consistent with seasonal change.
11/4/2025, 10:19 am	EPL14	Yarrangobilly River, downstream of road construction areas	13.31	95.1	9.94	144	94	8.2	173	1.11	Sunny day. No recent rain. Water level and flow average. No odour. No unusual algae growth. Low turb.	The results for this location align with data recorded during previous sampling rounds, and are within expectations for seasonal conditions.
11/4/2025, 10:39 am	EPL15	Yarrangobilly River, downstream of road construction areas	13.84	97.2	10.05	146	95	8.17	176	0.3	Sunny day. No recent rain. Low turb. Water level and flow average. No odour or unusual algal growth.	Results for this location are representative of the location according to previous sample rounds. Large decrease in temperature compared to last month consistent with seasonal change.
11/4/2025, 12:07 pm	EPL16	Yarrangobilly River, downstream of road construction areas	15.63	93.8	9.32	147	95	8.34	170	0.3	Sunny day. Average flow and water level. No recent rain. No odour or unusual algae growth.	The results for this location align with historical data recorded previously as well as seasonal conditions.
9/4/2025, 9:29 am	EPL24	Yarrangobilly River tributary (Watercourse 2), directly downstream of road	14.29	50.6	5.17	922.00	590	6.83	112	18.6	Stream is extremely low, no odour, clear colour. No prev rainfall. Lots of vegetation in and around the creek. Watercarts spray the batters within 30m of site and upstream of site.	Results are consistent with previous samples taken here the stream has been at low levels. High electrical conductivity and low DO is typical of very low stream flows.
13/4/2025, 8:21 AM	EPL26	Eucumbene River downstream of Marica Road	10.46	74.3	8.29	37	24	8.23	124	16.4	Obvious animal tracks around banks of stream. Clear water no odours, low stream. Dry sunny weather no wind, no prev rainfall	Low DO aligns is consistent with upstream data and previous results recorded.
13/4/2025, 8:30 AM	EPL27	Eucumbene River upstream of Marica Road	9.27	77.7	8.92	32	21	8.09	133	14.2	Water steady flow, brown algae at the bottom. Water is clear and odorless. No prev rainfall.	Location is upstream of any works. Results are consistent with previous sampling.
6/4/2025, 8:56 am	EPL30	Kellys Plain Creek, downstream of accommodation camp and laydown areas	8.13	75	8.88	11	7	7.66	236	6.3	Low steady flow, no odours, clear water, sunny dry cool day. No prev rainfall	Low DO is consistent with upstream data and previous results recorded. The Low Electrical conductivity results are lower then the results we have previously sampled, though it is still within range thoughout our sampled data.
6/4/2025, 9:13 am	EPL31	Kellys Plain Creek, upstream of accommodation camp and laydown areas	7.87	58.8	6.99	1	1	7.53	244	3.6	Low steady flow, clear water no odour, cool dry day, no prev rain. Evidence of horse activity around the banks.	The dissolved oxygen results are toward the lower end of the data recorded from previous sampling rounds, although it has been recorded previously.
6/4/2025, 8:33 am	EPL33	Murrumbidgee River, downstream of Tantangara reservoir outlet	14.11	63.2	6.5	7	4	7.51	229	30.8	High flowing, normal level water. Clear, no odours. Overcast cool day.	Low DO results are consistent with the levels recorded by us in previous sampling rounds. Lower EC reports will be investigated.
6/4/2025, 7:56 am	EPL34	Nungar Creek, upstream of Tantangara Road	9.3	81	9.3	13	9	7.87	182	9.4	Water levels normal, flowing steadily. No visible sheen, no odours, clear water. Dry sunny weather, cool temps.	These results are consistent with the data we have recorded in this location, although the low EC is outside the norm.
6/4/2025, 8:03 am	EPL35	Nungar Creek, downstream of Tantangara Road	7.54	68.9	8.25	7.0	4	7.69	180	3.6	Dry, sunny, cool weather. Low, steady stream. In the parts where there is no flow, there is evidence of biological sheen. Water is clear and odorless otherwise.	Low DO is consistent with previous results and typical of low flow.
5/4/2025, 11:40 am	EPL 36	Camerons Creek, upstream of works in Rock Forest	13.57	52	5.41	17	11	6.84	167	5.2	Sunny day. Low flow. Biological sheen present. No odour. Some cattle faeces and hoof marks around waters edge.	The data recorded is representative of low water levels and slow flow recorded at the time of the sample. Low EC has been recorded previously in our sample collections.
5/4/2025, 11:09 am	EPL 37	Camerons Creek, downstream of works in Rock Forest	12.21	64.9	6.96	22	14	7.45	201	23.5	Sunny day. Low flow. Cattle nearby. Smells of cattle faeces/urine. Muddy water.	Low DO is consistent with previous results and typical of low flow. Low EC has been recorded previously within our sample collections.
9/4/2025, 8:09 am	EPL52	GF01 leachate basin	13.56	69.5	7.21	960.00	614	8.71	165	73.2	Basin slightly green, normal smell. No prev rainfall, sunny calm morning. Workings ongoing in gf01	The leachate storage infrastructure is in line with the design function, therefore the high levels of EC and low DO is within range of samples collected previously.
-	EPL53	GF01 surface water upstream east	-	-	-	-	-	-	-	-	This location is dry	This location is dry.
-	EPL54	GF01 surface water upstream west	-		-	-	-	-	-	-	This location is dry	This location is dry.
-	EPL55	GF01 surface water downstream	-		-	-	-	-	-	-	This location is dry	This location is dry.
-	EPL67	Nungar Creek surface water downstream west from Tantangara emplacement area	-		-	-	-	-	-	-	Location is dry	Location is dry.
-	EPL71	Surface water downstream of Marica emplacement	-	-	-	-	-	-	-	-	This location is dry	This location is dry.
18/4/2024, 12:16 PM	EPL84	F8 Basin	23.65	109.1	9.22	704.00	451	9.19	103	1000	Sunny, no recent rainfall, 65% capacity, brown colour, turbid, no odour	These results are conclusive of the design functions of the leachate infrastructure.
25/4/2025, 11:12 AM	EPL85	MY07 Basin	22.51	77.9	6.73	583	373	9.02	13	1,000.00	Visibly turbid water, no odour	These results are conclusive of the design functions of the leachate infrastructure.
11/4/2025, 10:20 AM	EPL86	LHG01 Basin	19.01	90.2	8.1	871.00	557	8.85	-15	190	No sheen or odour	These results are conclusive of the design functions of the leachate infrastructure.

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-	EPL98	Rock blanket diversion monitoring under GFO1 liner	-	-	-	-	-		-	-	This location is dry	This location is dry - GF01 basin was being reconstructed.
13/4/2025, 12:12 PM	EPL99	Marica Leachate Basin-Turkey's Nest	17.66	94.9	9.03	479	312	9.5	4	26.6	Blue water, no algae growth. Evidence of ducks. No prev rainfall, dry sunny day. Water is being pumped out by dewatering	These results are conclusive of the design functions of the leachate infrastructure.
9/4/25, 12:34 PM	EPL100	Marica Lower Leachate Basin USS Shaft	16.25	62.3	6.1	1050	670	8.74	74	167	Sunny day, low level of water in the basin, no smell, turbid water	These results are conclusive of the design functions of the leachate infrastructure. They are also representative of the low levels at time of the samples being taken.
13/4/2025, 11:58 AM	EPL101	Marica Leachate Basin Spoil Pad	18.34	5.33	56.9	1330	848	7.17	115	41.3	Very low water level, green basin colour. Visible sheen in water, rainbow. Algae growth	These results are conclusive of the design functions of the leachate infrastructure. They are also representative of the low levels at time of the samples being taken.

EPL 21266 In Situ W		leasurements										
12/4/2025, 9:28 AM	EPL106	Ravine Bay Leachate basin 1	17.44	89.2	8.5	1,660.00	1,060.00	8.85	44	17	Horiba 5 used for sampling. Water is a dark green colour	These results are conclusive of the design functions of the leachate infrastructure.
-	EPL110	Upstream monitoring of Ravine Bay emplacement area	-	-	-	-	-	-	-	-	Location dry	Location dry.
-	EPL118	Ravine Bay Leachate basin 2	-	•	-	-	-	-	-	-	Location dry	Location dry.
-	EPL120	Ravine Bay Leachate basin 4	-	1	-	-	-	-	-	-	Location dry	Location dry.
11/4/25,2:30 PM	EPL122	GFO1 Drainage Line (Formerly EPL 55b)	17.13	88.8	8.54	492	320	8.18	149	129	Sunny day. No recent rain. No odour. Low flow and water level. Milky colour, grey sediment on vegetation around site from when water level was higher.	These results have been previously seen in past sampling rounds, the low DO is conclusive of the low water levels seen.
Table 2 - Reservoir Wate	Quality Data					Water Quality	Objectives (see no	ite 2)			1	
Table 2 - Reservoir Water Quality Data Talbingo and Tantangara Reservoirs				DO (%) 90 - 110	DO (mg/L)	EC (μS/cm) 20 - 30	TDS (mg/L)	pH 6.5 - 8.0		Turbidity (NTU) 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
13/4/2025, 8:54 AM	EPL10	Talbingo Reservoir, downstream of road works and upstream of water intake point	18.32	87.2	8.2	47	30	7.35	193	5.1	Sunny day. No wind. No recent rain. Water has green colour, more than ravine bay. Water warmer than ravine bay. No odour.	The high EC is in line with results previously recorded by our samples.
13/4/2025, 8:25 AM	EPL11	Talbingo Reservoir, downstream of outlet	18.42	91.2	8.56	41	27	7.35	190	9.5	Sunny day, slightly greener than ravine bay, water temp slightly warmer than ravine bay, no recent rainfall, no odour, zero wind, dusty layer across surface near intake.	This data aligns with data recorded in previous rounds of sampling, the high EC is within range when reviewing previous samples taken.
16/4/2025, 9:46 AM	EPL28	Tantangara Reservoir, upstream of works in the mouth of the Murrumbidgee River	15.3	89.7	9	13.9	11	8.93	110.1	6.85	Sunny; no wind; no previous rainfall. Organic material (including algae) present; no odours or oily sheen; algae causing water to have blue-green colouration. SHORELINE SAMPLE.	DO and EC results are in line with previously recorded data at this location. pH levels recorded are within range of data recorded from previous samples taken.
15/4/2025, 10:24 AM	EPL29	Tantangara Reservoir, downstream of works area and upstream of lower Murrumbidgee River	14.65	60.1	6.11	27	18	7.82	134	0.2	Clear sunny day, moderate wind. Visible algae, water is green. No odour or sheen.	Although low levels of DO have been recorded in our samples taken previously, it is lower than usual. The low DO could be attributed to the algae bloom recorded at the time of the sample.
15/4/2025, 10:19 AM	EPL32	Tantangara Reservoir, Tantangara Intake. Downstream of construction works	14.7	101.6	10.31	27	17	8.13	110	3.3	Clear sunny day, moderate wind. Visible algae, water is green. No odour or sheen.	These results are consistent with previous sampling rounds.
12/4/2025, 9:23 AM	EPL38	Tantangara Reservoir, variable location dependant on tide and reservoir levels. Between the emplacement area and the ancillary facilities for emplacement activities	14.9	89.1	9	27	17	8.59	113	57.9	Sunny day. No recent rainfall. Water very green. Visible algae bloom, bright green. Algae concentrated on western side of reservoir. No odour. Water level low.	These results are consistent with previous sampling rounds. The slight elevation of pH and turbidity could be attributed to the low levels of water.
6/4/2025, 11:49 am	EPL39	Confluence of Nungar Creek and Tantangara Reservoir, variable location dependent on tide and reservoir levels. Upstream of Tantangara construction works	11.75	65	7.04	2	1	7.2	259	6	Low level, constant flow of stream. No odour. Evidence of animal activity on banks. Clear water. Some bubbles on surface, windy, sunny day. No prev rainfall	Low DO levels are within range for previous samples recorded. EC was also observed below the norm.
12/4/2025, 11:45 PM	EPL40	Confluence of the upper Murrumbidgee River and Tantangara Reservoir, variable location dependent on tide and reservoir levels. Upstream of works	16.2	101.3	9.96	32.5	25	7.72	143.5	3.28	Clear sunny day with minimal wind. Low flow water with visible organic material. Sampled from shore due to low reservoir level and inaccessibility via boat. No odour or sheen. Public campers (6 vehicles) 400m away from sample point.	These results are consistent with previous sampling rounds.
15/4/2025, 10:52 AM	EPL 46	Tantangara Reservoir, diffuser outlet discharging into Tantangara Reservoir from Tantangara STP/PWTP	13.84	93.6	9.67	28	18	7.74	165	8.2	Clear sunny day, moderate wind. Visible algae, water is green. No odour or sheen.	These results are consistent with previous sampling rounds.
16/4/25, 10:54 AM	EPL 51	Tantangara Reservoir, downstream of Tantangara STP/PWTP diffuser outlet	16.6	91	8.86	27.5	21	7.87	144.7	10.96	Sunny; no wind; no previous rainfall. Organic material present (not as much as further upstream) no odour or oily sheen. SHORELINE SAMPLE	These results are consistent with previous sampling rounds.
13/4/2025, 8:05 AM	EPL107	Upstream monitoring of Ravine Bay emplacement area within Yarrangobilly River	17.75	85	8.09	38	25	7.24	183	0.5	Sunny day, no recent rain, water is slightly green but not visible algae growth, clearing occurring at pse	These results are consistent with previous sampling rounds.
13/4/2025, 7:50 AM	EPL108	Monitoring of Ravine Bay emplacement area (centre of PSE) within Yarrangobilly River	17.4	89.2	8.53	33	21	7.29	175	11	Sunny day. No odour. Water green but no visible algae. No recent rain. Clearing occurring at ravine bay.	These results are consistent with previous sampling rounds.
13/4/2025, 7:40 AM	EPL109	Upstream monitoring of Ravine Bay emplacement area within Yarrangobilly River	17.27	85.7	8.23	35	23	7.90	145	15.9	Sunny day. Light breeze. Water green but no visible algae. No odour	These results are consistent with previous sampling rounds.
Table 3 - Treated Water (Talbingo						Turbidity (NTU)						
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
23/4/2025, 9:19 AM	EPL41	Lobs Hole STP/PWTP Final Effluent Quality Monitoring Point. Downstream of final treatment, prior to discharge to Talbingo Reservoir.	19.91	56	5.1	19	13	7.64	156	0.25	Clear water. No odour.	These results are consistent with previous sampling rounds.
Table 4 - Treated Water C	uality Data						Objectives (see no					
Tantangara	antangara				DO (mg/L)	EC (μS/cm) 200	TDS (mg/L)	pH 6.5 - 8.0	Redox (mV)	Turbidity (NTU) 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
27/4/2025, 11:57 AM	EPL50	Tantangara STP/PWTP Final Effluent Quality Monitoring Point. Downstream of final treatment, prior to discharge to Tantangara Reservoir.	17.7	88.8	8.64	19.1	15	7.71	97.8	0.58	Sample taken from RO Plant. Water clear; no turbidity; no visible sediment present; no odour or oily sheen	These results are consistent with previous sampling rounds.

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Date and Time	EPL Site ID	Location Description	Temp (°C)	DO (%)	DO (mg/L)	EC (µS/cm)	TDS (mg/L)	pH	Redox (mV)	Turbidity (NTU)	Field Comments	Context
14/4/2025, 2:47 PM	EPL56	GF01 groundwater upstream east	18.47	24.6	2.3	214	139	7.4	186		disintegrating around bore cap. Top of GF01 being shaped.	These results are consistent with previous sampling rounds.
14/4/2025, 3:01 PM	EPL57	GF01 groundwater upstream west	16.29	15.7	1.54	194	126	7.44	264	91.9	SWL 15.06m. Clear water. Clear day. No recent rain. No odour. New track right next to bore recently built as part of GF01 shaping.	These results are consistent with previous sampling rounds.

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EPL 21266 In Situ W EPL Monthly Monitorin	PL 21266 In Situ Water Quality Measurements PL Monthly Monitoring April 2025												
14/4/25, 8:22 AM	EPL58	GF01 groundwater downstream	15.62	27.4	2.72	962	616	6.11	134	95.2	SWL-7.39m, very clear water, no odour, sunny day, works ongoing in GF01	Elevated results for EC have been increasing recently, and could be a result of being a downstream location of the PSE area. pH for this location has regularly recorded lower concentrations.	
6/4/2025, 12:08 pm	EPL68	Tantangara groundwater downstream West	12.34	72.6	7.77	2	1	5.72	288	15.1	Running fine, clear water, no odours. No prev rainfall. Windy sunny day. Works continuing on pse	EC results are below WQO's. Low pH levels are consistent with previous monitoring data.	
6/4/2025, 12:19 pm	EPL69	Tantangara groundwater downstream East	12.4	42.1	4.5	9	6	5.9	289	23.8	Water level 2.45m, Depth of well 8.43m. Clear water, very little sediment build up at bottom. No odours. Works ongoing adjacent to bore. No prev rainfall	The results for EC are outside of the range of recorded in previous monitoring event, possibly resulting from agitation during sampling. The low pH levels are consistent with previous samples taken.	
6/4/2025, 11:03 am	EPL70	Tantangara groundwater upstream	12.4	42.1	4.5	9	6	5.9	289	23.8	Water level 2.45m, Depth of well 8.43m. Clear water, very little sediment build up at bottom. No odours. Works ongoing adjacent to bore. No prev rainfall	The results for EC are outside of the range of recorded in previous monitoring event, possibly resulting from agitation during sampling. The low pH levels are consistent with previous samples taken.	
13/4/2025, 11:36 AM	EPL 72	Marica groundwater upstream	14.68	50.9	5.16	46	30	7.21	105	206	SWL 37.71m, BBL 44.60m. Cloudy at bottom with grey colouring. No odours. No prev rainfall. Borehole well intact.	These results are within historic records for this location. The elevated turbidity is an outlier for data recorded in previous sample rounds.	
-	EPL73	Marica groundwater downstream	-	-	-	-	-	-	-	-	This site has been decommissioned.	This site has been decommissioned.	
11/4/2025, 10:23 AM	EPL80	LHG groundwater upstream	18.13	20.8	1.96	685	438	6.8	-41	14.3	Water level - 29.49 m	These results are consistent with previous sampling rounds.	
11/4/25, 10:38 AM	EPL81	LHG groundwater downstream	19.05	27.1	2.51	859	550	7.1	-167	669	Turbid muddy water. Depth to water 3.99m from top of casing.	The elevated EC results have been recorded in previous sampling rounds. The elevated turbidity is within data recorded in previous sampling rounds.	
11/4/2025, 10:28 AM	EPL82	MY groundwater upstream	17.18	17.4	1.67	2190	1400	6.65	-50	43.9	Water level 6.02 m	The elevated EC results are consistent with sampling rounds within the past year.	
11/4/25, 9:43 AM	EPL83	MY groundwater downstream	17.36	42.8	4.1	815	521	6.78	-32	74.7	Depth of water is to top of casing 3.94m. Horiba 5 used.	The elevated EC results are consistent with sampling rounds within the past year.	
11/4/2025, 10:32 AM	EPL87	MY groundwater downstream	17.43	40.3	3.85	651	417	6.72	152	1000	Water level 4.3 m	The elevated EC results are consistent with previous samples taken.	
11/4/2025, 9:16 AM	EPL88	MY groundwater downstream	16.1	37.7	3.71	788	519	7.14	-215	18.7	Depth of water 3.37m (top of casing). Horiba 5 used. Water is visibly turbid with a strong sulfuric smell	The elevated EC results are consistent with previous sampling rounds.	
11/4/2025, 10:34 AM	EPL89	LHG groundwater downstream	16.01	60.6	5.98	302	196	6.81	145	14.8	Water level 3.29 m	These results are consistent with previous sampling rounds.	
14/4/2025, 7:47 am	EPL 90	GF01 groundwater downstream	13.59	73.8	7.67	62	40	7.23	130	100	SWL 13.14m. Sunny day. No recent rain. Bore directly below batter where water carts irrigate.	These results are consistent with previous sampling rounds.	
14/4/2025, 8:01 AM	EPL 91	GF01 groundwater downstream	14.51	37.1	3.78	218	142	6.98	-108	11.2	SWL 8.14M. Sunny day. No recent rain. Slight sulphur odour.	These results are consistent with previous sampling rounds.	
14/4/2025, 7:47 AM	EPL 92	GF01 groundwater downstream	13.56	93.8	9.76	134	87	7.87	142	930	SWL-19.95m, muddy water, no smell, sunny day	These results are consistent with previous sampling rounds. Elevated turbidity to be managed through upcoming bore development program.	
14/4/2025, 7:58 AM	EPL 93	GF01 groundwater downstream	13.81	91	9.41	207	134	7.84	114	895	SWL- 14.18m, turbid water, no odour, sunny day	These results are consistent with previous sampling rounds. The high turbidity could be attributed to bore development, this will be monitored.	
14/4/2025, 8:02 AM	EPL 94	GF01 groundwater downstream	13.88	91	9.4	151	98	7.78	12	107	SWL-13.54m, sunny day, a bit turbid water, no odour	These results are consistent with previous sampling rounds.	
14/4/2025, 8:14 AM	EPL 95	GF01 groundwater downstream	15	89.9	9.04	821	526	7.89	94	151	SWL-7.32m, very clear water, no odours, sunny day, works ongoing in GF01	These results are consistent with previous sampling rounds.	
9/4/2025, 7:54 am	EPL 96	GF01 groundwater downstream	11.79	99.4	10.75	291	189	6.72	216	869	SWL5.30m, BBL14.45m. No concrete, or lid on bore. The pipe is cracked. Orange colour, no odour, no prev rainfall. Likely ingress of surface water. Works ongoing at gf01.	These results are consistent with previous sampling rounds. The high turbidity could be attributed to bore development, this will be monitored.	
14/4/2025, 9:26 AM	EPL 97	GF01 groundwater downstream	15.49	22.7	2.26	363	236	6.84	113	1.3	SWL 6.35m. Sunny day. No recent rain. Bore plinth loose, concrete unstable. Low turb.	These results are consistent with previous sampling rounds.	
-	EPL102	Groundwater monitoring associated with the Marica emplacement area on Marica Trail	-	-	-	-	-	-	-	-	This location has been decommissioned.	This location has been decommissioned.	
6/4/2025, 10:47 am	EPL103	Upstream groundwater monitoring west of the Tantangara emplacement area	11.05	39.2	4.31	13	8	6.01	296	8.6	Water level 11.31m, Depth of well 22.24m. Clear water, no sediment build up. No odours. Works continuing on pse.	The results, including the low EC, is consistent with samples previously taken.	
6/4/2025, 12:34 pm	EPL104	Downslope groundwater monitoring east of the Tantangara emplacement area	12.6	39.7	4.22	14	9	5.95	296	11.7	Water level 4.44m, Depth of well 6.82. Cool sunny day, no prev rainfall. Clear water, runny sediment particles orange at very bottom. No odour.	The results, including the low EC, is consistent with samples previously taken.	
6/4/2025, 11:30 am	EPL105	Downslope groundwater monitoring east of the Tantangara emplacement area	12.64	40	4.25	130	84	5.83	310	168	No odour, clear colour, running slowly out of bore. Pump is preventing dipping and depth sounding.	The results, including the low EC, is consistent with samples previously taken.	
4/4/2025, 12:11 PM	EPL113	Upstream east monitoring of Ravine Bay emplacement area	15.08	17.7	1.78	168	109	6.31	154	437	Water level reading: 3.07	These results are consistent with previous sampling rounds.	
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4/4/2025, 12:56 PM	EPL114	Upstream west monitoring of Ravine Bay emplacement area	15.49	21.6	2.15	397	258	7.41	27	20.4	WLR: 31.83	These results are consistent with previous sampling rounds.		
4/4/2025, 12:33 PM	EPL115	Downstream east monitoring of Ravine Bay emplacement area	15.51	13.2	1.32	363	236	7.38	36	220	Water level reading: 10.98	These results are consistent with previous sampling rounds.		
4/4/2025, 1:25 PM	EPL116	Downstream west monitoring of Ravine Bay emplacement area	15.55	54.5	5.43	178	115	6.88	128	1,000	WLR: 8.23	These results are consistent with previous sampling rounds.		
4/4/2025, 2:16 PM	EPL117	Downstream monitoring of Ravine Bay emplacement area	15.82	10.8	1.07	149	97	6.34	0	1000	WLR: 15.70	These results are consistent with previous sampling rounds.		

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 Talibingo 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 EIS.

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

Analyte	Unit	Limit of Reporting	Water Quality Objective Value*
Physiochemical	T)	î	
pH	pH Unit	· 1	6.5-8
Electrical Conductivity	μ\$/cm		30-350
Oxidation Reduction Potential	mV		No Water Quality Objective Value
Temperature	Ψ.		No Water Quality Objective Value
Dissolved Oxygen	% saturation		No Water Quality Objective Value
Turbidity	NTU		No Water Quality Objective Value
aboratory analytes			
TSS	mg/L	5	No Water Quality Objective Value
Hardness as CaCO3	mg/L	1	No Water Quality Objective Value
Nutrients			
Ammonia as N	μg/L	10	13
Nitrite + Nitrate as N (NOx)	μg/L	10	15
Kjeldahl Nitrogen Total	μg/L	100	No Water Quality Objective Value
Nitrogen (Total)	μg/L	100	250
Reactive Phosphorus	μg/L	1	15
Phosphorus (Total)	μg/L	10	20
Inorganics			
Cyanide Total	μg/L	4	- 4
Hydrocarbons			
Oil and Grease	mg/L	1	5
Metals		† 	
Aluminium (total)	μg/L		No Water Quality Objective Value
Aluminium (dissolved)	μg/L	5	27
Arsenic (total)	μg/L	02	No Water Quality Objective Value
Arsenic (dissolved)	µg/L	0.2	0.8
Chromium (III+VI) (total)	μg/L	0.2	No Water Quality Objective Value
Chromium (III+VI) (dissolved)	μg/L	0.2	0.01
Copper (total)	μg/L	0.5	No Water Quality Objective Value
Copper (dissolved)	μg/L	0.5	1
Iron (total)	μg/L	2	No Water Quality Objective Value
Iron (dissolved)	μg/L	2	300
Lead (total)	μg/L	0.1	No Water Quality Objective Value
Lead (dissolved)	μg/L	0.1	1
Manganese (total)	μg/L	0.5	No Water Quality Objective Value
Manganese (dissolved)	μg/L	0.5	1,200
Nickel (total)	μg/L	0.5	No Water Quality Objective Value
Nickel (dissolved)	μg/L	0.5	8
Silver (total)	μg/L	0.01	No Water Quality Objective Value
Silver (dissolved)	μg/L	0.01	0.02
Zinc (total)	µg/L	1	No Water Quality Objective Value
Zinc (dissolved)	μg/L	1	2.4

EPL56	EPL57	EPL58	EPL68	EPL69	EPL70	EPL72	EPL73 (decommissioned)	EPL80	EPL81	EPL82	EPL83	EPL87	EPL88	EPL89	EPL 90	EPL 91	EPL92	EPL93	EPL94	EPL95	EPL96	EPL97	EPL102 (Decommissioned)	EPL103	EPL104	EPL105	EPL113	EPL114	EPL115	EPL116	EPL117
14/04/2025	14/04/2025	14/04/2025	6/04/2025	6/04/2025	6/04/2025	13/04/2025		11/04/2025	11/04/2025	11/04/2025	11/04/2025	11/04/2025	11/04/2025	11/04/2025	14/04/2025	14/04/2025	14/04/2025	14/04/2025	14/04/2025	14/04/2025	9/04/2025	14/04/2025		6/04/2025	6/04/2025	6/04/2025	4/04/2025	4/04/2025	4/04/2025	4/04/2025	4/04/2025
7.4	7.44	6.11	5.72	5.9	5.9	7,21		6.8	7.1	6.65	6.78	6.72	7.14	6.81	7.23	6.98	7.87	7.84	7.78	7.89	6.72	6.84		6.01	5.95	5.83	6.31	7.41	7.38	6.88	6.34
214	194	962	2	9	9	46		685	859	2190	815	651	788	302	62	218	134	207	151	821	291	363		13	14	130	168	397	363	178	149
186	264	134	288	289	289	105		-41	-167	-50	-32	152	-215	145	130	-108	142	114	12	94	216	113		296	296	310	154	27	36	128	-
18.47	16.29	15.62	12.34	12.4	12.4	14.68		18.13	19.05	17.18	17.36	17.43	16.1	16.01	13.59	14.51	13.56	13.81	13.88	15	11.79	15.49		11.05	12.6	12.64	15.08	15.49	15.51	15.55	15.82
24.6	15.7	27.4	72.6	42.1	42.1	50.9		20.8	27.1	17.4	42.8	40.3	37.7	60.6	73.8	37.1	93.8	91	91	89.9	99.4	22.7		39.2	39.7	40	17.7	21.6	13.2	54.5	10.8
4.9	91.9	95.2	15.1	23.8	23.8	206		14.3	669	43.9	74.7	1000	18.7	14.8	100	11.2	930	895	107	151	869	1.3	-	8.6	11.7	168	437	20.4	220	1000	1000
<	79	68	<5	17	18	88		14	2,030	71	54	11,700	46	223	71	10	593	2,190	193	134	510	<5		<5	<5	43	42	9	222	6,400	32
95	112	372	<1	9	26	13		372	460	1,240	143	200	154	64	20	126	36	104	72	346	126	140		2	9	50	48	190	177	71	43
		30	<10	<10	<10	10		60	60	100	30	420		70	10	40	10	30	20	140		20		<10	<10	<10	10	70	30	30	20
20 90	<10 1.230	63.800	760	140	890	40	- :	<10	30	<100	10.100	8.110	8.260	<10	340	<10	30	20	<10	49.700	420 9.150	70		*10 850	230	5.700	20	<10	<10	40	<10
100	100	2.700	<100	<100	<500	100	-	200	600	200	300	2,000	600	100	100	<100	200	500	100	2,600	<100	<100	- :	100	<100	500	400	<100	100	1.600	300
200	1.300	66,500	800	100	900	100	-	200	600	200	10.400	10.100	8,900	100	400	<100	200	500	100	52,300	9.200	<100		1.000	200	6,200	400	<100	100	1,600	300
<1	<1	<1	<1	<1	20	<1	-	<1	<1	<1	<1	<1	<1	<1	<1	20	<1	<1	<1	<1	20	20		1	<1	<1	<1	<1	<1	10	<1.0
50	50	190	<10	<10	130	150		220	300	<10	20	540	80	10	60	70	280	1,020	100	180	460	70		20	<10	<10	80	20	60	1,770	1,650
																		-,,												.,	-,,,,,,
<4	<4	<4	<4	<4	-64	<4		<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4		-04	<4	<4	-64	<4	<4	<4	<4
							•																								
<1	<1	<1	<1	<1	<1	<1		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		<1	<1	<1	<1	<1	<1	<1	<1
ii —		•			•	•	•	•	•				-		•		•	•		•	•		•		•	•					
94	743	516	315	976	1,110	764	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-		-				-	-	-
<5	<5	<5	<5	<5	-6	5		<5	<5	<5	<5	<5	<5	<5	<5	-6	<5	<5	<5	<5	<5	<5		-6	<5	<5	7	<5	<5	<5	<5
<0.2	2.4	0.6	<0.2	0.2	<0.2	-		-	-		-		-	-	-		-	-		-		-									-
<0.2	2.4	<0.2	<0.2	<0.2	<0.2	<0.2		5.6	6.9	8.7	2.3	0.5	18.9	0.4	< 0.2	0.5	<0.2	0.8	1.3	0.5	0.3	0.2		<0.2	<0.2	<0.2	0.4	0.4	0.4	0.5	0.9
0.4	1.4	1.6	0.3	1.0	1.0	-		-	-		-		-	-	-		-	-	-	-	-	-			-						
<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	<0.2	<0.2	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.3	<0.2	-	<0.2	<0.2	0.3	<0.2	<0.2	<0.2	<0.2	<0.2
6.2	9.9	3.8	0.6	3.5	22.1					-								- :-	- : -				-								
1.0	1.2 708	0.8 860	<0.5 152	<0.5 611	6.9 646	4.2	-	<0.5	0.6	<0.5	3.3	0.7	<0.5	6.1	<0.5	<0.5	<0.5	<0.5	<0.5	0.8	<0.5	<0.5	-	6.2	<0.5	<0.5	2.0	<0.5	<0.5	<0.5	<0.5
<2	708 <2	86U <2	152	611	64b	- <2		- 0	- <2	379	- 0	- 0	48	- <2		2	- 0	- 0	- 42	- 0	4	- 0		- 0	- 42	<2	13		<2	- 4	1.450
1.0	1.6	8.6	0.1	0.4	0.4	<2	-	<2	<2	3/9	<2	<2	48	<2	<2		<2	<2	<2	<2	4	- <2		- <2	<2	<2	13		<2.	<2	1,450
<0.1	<0.1	0.3	<0.1	<0.1	<0.1	<0.1		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.3	<0.1	<0.1	<0.1	<0.1	<0.1		<0.1	<0.1	<0.1	0.1	<0.1	<0.1	<0.1	<0.1
31.9	102	212	4.3	17.2	12.2	NO.1		NO.1	NO.1	VO.1	NO.1	V0.1	V0.1	V0.1	NO.1	NO.1	0.3	V0.1	NO.1	NO.1	NO.1	V0.1		NO.1	NO.1	NU.1	0.1	NO.1	NO.1	NU.1	V0.1
12.6	58.9	175	2.1	1.3	1.6	5.0	-	198	267	355	51.6	336	176	15.6	5.3	466	61.6	128	363	901	105	295		<0.5	3.4	17.0	80.7	392	369	49.0	309
0.5	2.4	6.6	0.8	0.9	<0.5	-	1			-	-				-	-	-	-	-		-	-	-	-			-	-	-	-	-
<0.5	<0.5	4.2	<0.5	<0.5	<0.5	1.0		17.4	2.5	1.4	8.4	3.4	3.0	2.0	1.5	<0.5	1.1	0.8	0.9	10.0	8.8	1.1		<0.5	<0.5	3.5	<0.5	54.2	<0.5	0.6	1.4
< 0.01	< 0.01	0.16	<0.01	< 0.01	< 0.01	-			-	-	-			-	-	-		-			-	-	-		-			-	-	-	-
<0.01	< 0.01	<0.01	<0.01	< 0.01	< 0.01	< 0.01		< 0.01	<0.01	< 0.01	<0.01	< 0.01	< 0.01	<0.01	< 0.01	< 0.01	<0.01	<0.01	<0.01	< 0.01	<0.01	< 0.01		< 0.01	<0.01	< 0.01	< 0.01	< 0.01	<0.01	< 0.01	< 0.01
7	6	16	4	3	2	-			-	-		-	-		-	-	-	-	-		-		-	-	-	-	-	-	-	-	-
1	<1	7	2	<1	<1	4		1	3	2	2	111	1	<1	7	<1	6	<1	4	23	10	17		<1	<1	21	2	3	<1	3	<1

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

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

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

EPL10	EPL11	EPL28	EPL29	EPL32	EPL38	EPL39	EPL40	EPL46	EPL51	EPL107	EPL108	EPL109
13/04/2025	13/04/2025	16/04/2025	15/04/2025	15/04/2025	12/04/2025	6/04/2025	12/04/2025	15/04/2025	16/04/2025	13/04/2025	13/04/2025	13/04/2025
7.35	7.35	8.93	7.82	8.13	8.59	7.2	7.72	7.74	7.87	7.24	7.29	7.9
47	41	13.9	27	27	27	2	32.5	28	27.5	38	33	35
193	190	110.1	134	110	113	259	143.5	165	144.7	183	175	145
18.32	18.42	15.3	14.65	14.7	14.9	11.75	16.2	13.84	16.6	17.75	17.4	17.27
87.2	91.2	89.7	60.1	101.6	89.1	65	101.3	93.6	91	85	89.2	85.7
5.1	9.5	6.85	0	3.3	57.9	6	3.28	8.2	10.96	0.5	11	15.9
l												
<5	<5	17	<5	<5	18	<5	<5	<5	<5	<5	<5	<\$
22	19	9	9	9	9	7	9	9	9	10	10	10
30	30	<10	10	10	<10	<10	<10	20	<10	<10	<10	<10
<10	<10	10	<10	<10	<10	80	<10	<10	<10	<10	<10	<10
100	100	1,200	500	300	800	100	<100	300	400	<100	<100	<100
100	100	1,200	500	300	800	200	<100	300	400	<100	<100	<100
<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
30	20	70	30	30	40	150	20	20	50	20	20	<10
<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
					•							
<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
$\overline{}$												
<5	<5	15	9	9	9	12	13	8	9	<5	<5	<\$
0.4	0.4	0.3	0.3	0.4	0.4	<0.2	<0.2	0.4	0.4	0.4	0.4	0.3
<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6	4	72	55	56	52	77	58	61	58	4	4	4
<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	< 0.1	<0.1	<0.1	<0.1	<0.1	<0.1
<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	2.2	2.4	<0.5	<0.5	<0.5	<0.5	<0.5
<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
< 0.01	< 0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
<1	<1	<1	<1	<1	<1	∢1	<1	<1	<1	<1	◁	<1
28	21	100				-			1			
4	3	4		-	-	-	-	-	2	-	-	-

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

^{**} Algal blooms can present as faecal coliforms

^{^ 90}th percentile concentration limits / 100 percentile concentration limits

Sample not required at this location.

M	Ionthly EPL Sar	mpling: 01-30	April 2025 - Surface Water																																	l l
Analyte	Unit	Limit of Reporting	Water Quality Objective Value*	EPLS	EPL6	EPL8	EPL9	EPL12	EPL14	EPLIS	EPL16	EPL24	EPL26	EPL27	EPL30	EPL31	EPL33	EPL34	EPLSS	EPL36	EPL37	EPLS2	EPLS3 EPL	S4 EPLSS	EPL67 EPL7	1 EPL84	EPL8S	EPL86	EPL98	EPL99	EPL100	EPL101	EPL106	EPL110 EPL11	8 EPL120	EPL122
Field				11/04/2025	11/04/202	11/04/2025	11/04/2025	11/04/2025	11/04/2025	11/04/2025	11/04/2025	9/04/2025	13/04/2025	13/04/2025	6/04/2025	6/04/2025	6/04/2025	6/04/2025	6/04/2025	22/04/2025	5/04/2025	9/04/2025	Dry D	ry Dry	Dry Dry	29/04/2025	29/04/2025	11/04/2025	Dry 1	3/04/2025	19/04/2025	13/04/2025	12/04/2025	Dry Dry	Dry	22/04/2025
pH			6.5-8	8.14	8.09	8.18	8.18	8.18	8.2	8.17	8.34	6.83	8.23	8.09	7.66	7.53	7.51	7.87	7.69	6.76	7.45	8.71	Dry D	ry Dry	Dry Dry	9.02	9.04	8.85	Dry	9.5	8.74	7.17	8.85	Dry Dry	Dry	8.26
Electrical Conductivity	uS/cm		30-350	150	127	153	149	147	144	146	147	922	37	32	11	1	7	13	7	40	22	960	Dry D	ry Dry	Dry Dry	937	679	871	Dry	479	1050	1330	1660	Dry Dry	Dry	656
Oxidation Reduction Potential	mV		No Water Quality Objective Value	173	173	175	176	167	173	176	170	112	124	133	236	244	229	182	180	201	201	165	Dry D	ry Dry	Dry Dry	94	113	-15	Dry	4	74	115	44	Dry Dry	Dry	135
Temperature	°c		No Water Quality Objective Value	12.21	12.56	16.69	15.83	12.36	13.31	13.84	15.63	14.29	10.46	9.27	8.13	7.87	14.11	9.3	7.54	11.89	12.21	13.56	Dry D	ry Dry	Dry Dry	18.89	18.05	19.01	Dry	17.66	16.25	18.34	17.44	Dry Dry	Dry	15.06
Dissolved Oxygen	% saturation		90-110	92.3	96.7	89.3	97.9	93.3	95.1	97.2	93.8	50.6	74.3	77.7	75	58.8	63.2	81	68.9	51.8	64.9	69.5	Dry D	ry Dry	Dry Dry	89.8	72.6	90.2	Dry	94.9	62.3	5.33	89.2	Dry Dry	Dry	59.3
Turbidity	NTU		2-25	3.83	0.59	0.86	0.69	0.4	1.11	0.3	0.3	18.6	16.4	14.2	6.3	3.6	30.8	9.4	3.6	15.2	23.5	73.2	Dry D	ry Dry	Dry Dry	1000	1000	190	Dry	26.6	167	41.3	17	Dry Dry	Dry	1000
Laboratory analytes			i																																	
TSS	mg/L	5	No Water Quality Objective Value	6	-6	-cs	4	-6	<5	6	- 6	4	-6	-6	S.	-6	6	4	è	16	29			ny Dry			571	77	Dry	-6	60	-dS	- 45	Dry Dry		577
Hardness as CaCO3	mg/L	1	No Water Quality Objective Value	81	72	81	85	83	87	87		282	18	14	13	9	9	16	16	13	17	285	Dry D	ry Dry	Dry Dry	39	46	144	Dry	170	276	303	460	Dry Dry	Dry	61
Nutrients		10																																		
Ammonia as N Nitrite + Nitrate as N (NOx)	µg/L	10	13	40 <10	<10	120	20	20 <10	20 <10	10 <10	6	<10	10	10 <10	<10	<10	20 60	30	<10		20 <10		Dry D	ry Dry	Dry Dry		7,580	10,200		12,300	690 37.800	2,110	10 300			20 6.820
Kjeldahl Nitrogen Total	µg/L	100	No Water Quality Objective Value	200	100	200	200	100	100	100	400	5.200	<100	<100	<100	<100	400	100	100		600				Dry Dry		1,700	2,500		15,000	4.200	7,200	8,000			2,500
Nitrogen (Total)	ug/L	100	250	200	100	300	300	100	100	100	400	44,300	<100	<100	<100	<100	500	100	100	300	600		Dry D				9,300	12,700		48.400	42,000	45,200	18,300		Dry	9,300
Reactive Phosphorus	uz/L	1	15	<1	<1	<1	<1	<1	<1	<1	5	4	<1	<1	<1	<1	<1	d	d	<1	d	<1	Dry D	y Dry		<10	<10	<10	Dry	<10	<10	<10	<10	Dry Dry	Dry	<10
Phosphorus (Total)	µg/L	10	20	<10	<10	<10	30	<10	<10	20	9	20	<10	30	10	<10	20	10	20	20	40	60	Dry D	ry Dry	Dry Dry	850	630	60	Dry	20	100	30	<10	Dry Dry	Dry	730
Inorganics																																				
Cyanide Total	µg/L	4	4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	Dry D	ry Dry	Dry Dry	<4	<4	<4	Dry	116	<4	7	-44	Dry Dry	Dry	$\overline{}$
Hydrocarbons Oil and Grease	-																							-					-							\rightarrow
Oil and Grease	mg/L	1	<u> </u>	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	Dry D	ry Dry	Dry Dry	<1	<1	<1	Dry	<1	<1	<1	4	Dry Dry	Dry	<1
Aluminium (total)	µg/L		No Water Quality Objective Value																			1.140														
Aluminium (dissolved)	HE/L		27	6	-65	- 6	- 6	-6	- 6	· ·	-6	- 6	- 6	d	7		9		9	16	16		Dry D	Dry	Dry Dry	- 11		8	Dry	16	20	8	6	Dry Dry	Dry	6
Arsenic (total)	µg/L	0.2	No Water Quality Objective Value												- 1							4.7	- U	y biy					·		- 20			- City	- Uny	-
Arsenic (dissolved)	µg/L	0.2	0.8	0.7	0.3	0.7	0.7	0.7	0.6	0.6	- 41	1.1	<0.2	<0.2	40.2	<0.2	0.4	40.2	40.2	0.3	0.3	4,4	Dry D	ry Dry	Dry Dry	19.5	21.4	15.4	Dry	1.3	1.9	2.3	2.5	Dry Dry	Dry	2.0
Chromium (III+VI) (total)	µg/L	0.2	No Water Quality Objective Value	-		-	-		-		<1				-							5.1				-			-	-					-	-
Chromium (III+VI) (dissolved)	µg/L	0.2	0.01	<0.2	<0.2	<0.2	<0.2	0.2	<0.2	<0.2	4	1.6	0.3	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	2.3	Dry D	ry Dry	Dry Dry	15.0	21.2	11.0	Dry	14.1	7.2	13.6	1.6	Dry Dry	Dry	0.3
Copper (total)	µg/L	0.5	No Water Quality Objective Value							-						-						2.2									-					
Copper (dissolved)	µg/L	0.5	1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	4	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		Dry D	ry Dry	Dry Dry	6.2	2.0	2.0	Dry	2.0	1.5	1.7	<0.5	Dry Dry	Dry	1.0
Iron (total)	µg/L	2	No Water Quality Objective Value	-	-	-		-	-	-	-	-	-		-	-		-	-	-	-	1,410				-	-		-	-	-	-				
Iron (dissolved) Lead (total)	µg/L	0.1	No Water Quality Objective Value	48	21	7	9	3	4	6	<50	8	14	9	33	25	83	118	134	211	136	3 1.7	Dry D	ry Dry	Dry Dry	20	5	<2	Dry	<2	<2	<2	-2	Dry Dry	Dry	8
Lead (dissolved)	µg/L	0.1	No water quality objective value	40.1	<0.1	<0.1	s0.1	<0.1	40.1	c0.1		0.2	<0.1	<0.1	≪0.1	<0.1	<0.1	<0.1	«0.1	<0.1	40.1		Day D	ry Dry	Dry Dry	0.5	0.1	<0.1	Dec	s0.1	<0.1	s0.1	s0.1	Dry Dry	- Dec	<0.1
Manganese (total)	µg/L	0.1	No Water Quality Objective Value	90.1	NU.1	40.1	40.1	40.1	40.1	10.1	- 1	0.2	40.1	V0.1	40.1	VU.1	40.1	40.1	VU.1	NU.1	40.1	34.2	Uty U	ly bly	ury ury	0.3	0.1	NU.1	Ury	10.1	40.1	V0.1	NO.1	DIY DIY	Uly	40.1
Manganese (dissolved)	HE/L	0.5	1,200	3.2	3.8	1.3	3.4	0.6	0.6	1.4	-6	238	3.3	1.0	4.4	2.1	<0.5	6.7	9.3	36.2	4.1		Dry D	Dry	Dry Dry	0.8	<0.5	<0.5	Dry	2.1	42.0	116	<0.5	Dry Dry	Dry	7.9
Nickel (total)	µg/L	0.5	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-		-	5.1		-		-			-	-	-	-	-			-
Nickel (dissolved)	µg/L	0.5	8	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	4.1	<0.5	<0.5	40.5	<0.5	<0.5	<0.5	<0.5	<0.5	40.5	0.8	Dry D	ry Dry	Dry Dry	1.8	0.8	0.8	Dry	0.6	1.8	1.9	1.9	Dry Dry	Dry	1.1
Silver (total)	µg/L	0.01	No Water Quality Objective Value	-																		<0.01							-			-			-	
Silver (dissolved)	µg/L	0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<5	< 0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	Dry D	ry Dry	Dry Dry	<0.01	<0.01	<0.01	Dry	0.02	<0.01	<0.01	<0.01	Dry Dry	Dry	<0.01
Zinc (total)	µg/L	1	No Water Quality Objective Value	-	-												-				-	8				-			-						-	
Zinc (dissolved)	µg/L	1	2.4	<1	<1	<1	<1	<1	<1	<1	<5	14	<1	<1	<1	<1	<1	4	4	<1	4	<1	Dry D	ry Dry	Dry Dry	1	<1	<1	Dry	4	<1	<1	4	Dry Dry	Dry	<1.

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

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

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

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

EPL 44	EPL 45	EPL 47	EPL 48	EPL 49										
	Discharge volume (Megalitres)													
0.21	0.05	0.19	0.06	1.10										
0.25	0.06	0.23	0.08	0.95										
0.22	0.05	0.23	0.09	0.62										
0.14	0.07	0.28	0.10	0.60										
0.04	0.03	0.24	0.07	0.33										
0.19	0.06	0.21	0.10	0.72										
0.30	0.06	0.25	0.07	0.59										
0.46	0.06	0.22	0.09	0.76										
0.48	0.06	0.23	0.05	0.52										
0.51	0.08	0.17	0.09	0.71										
0.25	0.07	0.18	0.28	0.71										
0.41	0.05	0.30	0.08	0.48										
0.27	0.05	0.23	0.04	0.53										
0.27	0.05	0.39	0.03	0.66										
0.59	0.05	0.22	0.08	0.52										
0.29	0.04	0.20	0.25	0.46										
0.16	0.04	0.19	0.09	0.52										
0.28	0.06	0.18	0.05	0.56										
0.28	0.04	0.20	0.07	0.54										
0.31	0.05	0.19	0.09	0.64										
0.36	0.05	0.19	0.10	0.51										
0.50	0.06	0.20	0.06	0.35										
0.41	0.09	0.19	0.03	0.62										
0.28	0.06	0.20	0.02	0.33										
0.19	0.05	0.23	0.08	0.36										
0.27	0.05	0.21	0.08	0.29										
0.47	0.06	0.22	0.02	0.58										
0.20	0.06	0.26	0.05	0.54										
0.49	0.05	0.22	0.09	0.71										
0.22	0.04	0.21	0.07	0.60										

- Water not discharged on this day
 - Note: The EPL discharge volume limit for EPL 43 and 50 is 4.32 megalitres per day. Compliance with this criteria was met during the reporting month.
- The maximum flow rate capacity for Lobs Hole STP/PWTP during the reporting month was 8.45 L/s
- The maximum flow rate capacity for Tantangara STP/PWTP during the reporting month was 11.34 L/s
- Water not discharged on this day

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

Table	1 - Surfac	e Water	Quality Da
Divers		- 18/-6	

River and Minor Waterco	urses		Temp (°C)	90 - 110		EC (μS/cm) 30 - 350	TDS (mg/L)	pH 6.5 - 8.0	Redox (mV)	Turbidity (NTU) 2 - 25		
Date and Time	EPL Site ID	Location Description	Temp (*C)	DO (%)	DO (mg/L)	EC (µS/cm)	TDS (mg/L)	pН	Redox (mV)	Turbidity (NTU)	Field Comments	Context
7/5/2025, 7:12 AM	EPL5	Yarrangobilly River, upstream of the exploratory tunnel and construction pad	9.84	81	9.18	135	88	8.17	172	0.3	Clear sky. Average flow. Clear water. No recent rain.	These results are consistent with previous samples taken for this location.
7/5/2025, 7:49 AM	EPL6	Wallaces Creek, upstream of Yarrangobilly River and Wallaces Creek confluence	8.14	80.5	9.49	130	84	8.12	228	1.1	Clear sky. Clear water. No recent rain. Lower than usual flow.	These results are consistent with our previous samples taken for this location.
7/5/2025, 7:11 AM	EPL8	Yarrangobilly River, downstream of Lick Hole Gully	9.99	70.5	7.96	138	90	8.11	47	41.3	Clear sunny morning, no recent rainfall event. Water is clear, no odour. No sheen. No signs of algae.	Turbidity is elevated, however not uncommon within our data previously recorded. This could potentially affect the slightly lower DO recorded.
7/5/2025, 7:29 AM	EPL9	Yarrangobilly River, downstream of the accommodation camp and upstream of Talbingo Reservoir	9.3	63.9	7.33	141	92	8.01	119	7.1	Clear sunny morning, no recent rainfall. No visible algae, no sheen, no odour. Water is very clear	These results are consistent with our previous samples taken. The DO results which are below WQO's.
7/5/2025, 7:28 AM⊞	EPL12	Yarrangobilly River, immediately downstream of portal pad	9.26	68.1	7.82	135	88	8.17	208	5.9	Clear sky. Clear water. No recent rain. Average flow.	These results are consistent with our previous samples taken for this location.
7/5/2025, 8:09 AMII	EPL14	Yarrangobilly River, downstream of road construction areas	8.54	73.8	8.62	138	89	8.13	234	5.8	Clear sky, Clear water. No recent rain. Average flow.	These results align with the decrease in temperatures, remaining consistent with data we have recorded in previous sample rounds.
7/5/2025, 8:26 AM	EPL15	Yarrangobilly River, downstream of road construction areas	8.73	90.3	10.5	139	90	8.14	238	0.3	Clear sky. Clear water. No recent rain. Average flow.	These results are consistent with our previous samples taken for this location.
7/5/2025, 7:52 AMII	EPL16	Yarrangobilly River, downstream of road construction areas	8.87	63.2	7.32	142	92	8.08	142	6.2	Clear sunny morning, no recent rainfall. Clear water, no visible algae, no sheen, no odour.	These results are consistent with our previous samples taken for this location.
3/5/2025, 2:38 PM	EPL24	Yarrangobilly River tributary (Watercourse 2), directly downstream of road	14.55	54.2	5.51	956.00	612	6.71	205	4.8	Clear sunny day. No recent rain events. Works continuing to expand F10.5 basin just upstream of sample location. Water is very clear, no odour and no sheen.	Low DO and elevated EC is commonly seen with data recorded from previous sample rounds; these numbers are consistent with these results.
2/5/2025, 8:48 AMII	EPL26	Eucumbene River downstream of Marica Road	4.43	82.6	10.7	29	19	8	217	9.01	Sunny cool day. Low flow and water level. Horse poo and hoof marks on stream bank. Low turb, confirmed with Hach.	The results are consistent with our previous samples taken for this location.
18/5/2025, 10:36 AMII	EPL27	Eucumbene River upstream of Marica Road	6.05	92.8	11.57	21	13	5.92	216	29.4	Windy cold day, low level water, slow flow, evidence of animal activity, no odors, clear water	The low pH although has been recorded in our previous sample rounds, is less commonly seen. The other parameters are consistent with our previous sample rounds.
21/5/2025, 7:34 AME	EPL30	Rellys Plain Creek, downstream of accommodation camp and laydown areas	7.5	92.9	11.14	32	21	8.09	205	11.6	Clear sunny conditions, frost in the morning with limited rain over the previous week. Clear waterway with no signs of odour or other anomalies. II	Slightly elevated pH is within trends of data recorded from previous samples taken.
21/5/2025, 7:39 AMII	EPL31	Kellys Plain Creek, upstream of accommodation camp and laydown areas	7.59	84.4	10.09	21	14	7.78	244	8.1	Clear sunny conditions, frost in the morning with limited rain over the previous week. Clear waterway with no signs of odour or other anomalies. ${\tt III}$	These results are consistent with previous samples recorded for this location.
21/5/2025, 7:42 AMII	EPL33	Murrumbidgee River, downstream of Tantangara reservoir outlet	9.59	67.1	7.64	21	13	7.59	264	18	Clear sunny conditions, frost in the morning with limited rain over the previous week. Green coloured waterway, looks to be algae with no signs of odour or other anomalies.	These results are consistent with results previously recorded for this location, low DO and EC is commonly recorded here and therefore isn't outside of results.
21/5/2025, 7:46 AM⊞	EPL34	Nungar Creek, upstream of Tantangara Road	7.2	82.2	9.93	23	15	7.52	277	5.9	Clear sunny conditions, frost in the morning with limited rain over the previous week. Clear waterway with no signs of odour or other anomalies.	These results are consistent with results previously recorded for this location, low DO and EC is commonly recorded here and therefore isn't outside of results.
21/5/2025, 7:50 AM	EPL35	Nungar Creek, downstream of Tantangara Road	7.38	65.8	7.91	22.0	14	7.43	262	4.5	Clear sunny conditions, frost in the morning with limited rain over the previous week. Clear waterway with no signs of odour or other anomalies.	These results are consistent with results previously recorded for this location, low DO and EC is commonly recorded here and therefore isn't outside of results.
27/5/2025, 11:13 AM	EPL 36	Camerons Creek, upstream of works in Rock Forest	8.58	99.8	11.66	47	30	6.83	298	23.5	Sunny day, a bit turbid water it can be attributed to the recent precipitations, no odour	These results are consistent with previous samples recorded for this location.
27/5/2025, 9:35 AM	EPL 37	Camerons Creek, downstream of works in Rock Forest	6.77	101	12.33	60	39	7.28	305	15.6	Sunny day, clear water, the stream a bit more turbulent it can be attributed to the recent precipitation, no smell	These results are consistent with previous samples recorded for this location.
26/5/2025, 11:36 AMIZ	EPL52	GF01 leachate basin		-	-						DRY	DRY
	EPL53	GF01 surface water upstream east		-							DRY	This location is dry.
	EPL54	GF01 surface water upstream west	-	-							DRY	This location is dry.
19/5/2025, 9:46 AME	EPL55	GF01 surface water downstream		-			-	-		-	DRY	This location is dry.
	EPL67	Nungar Creek surface water downstream west from Tantangara emplacement area									DRY	Location is dry.
1	EDI 71	Surface water downstream of Marica emplacement							1 -		IDEV	This location is do.

EPL 21266 In Situ W		Measurements .										
5/5/2025, 11:53 AMII	EPL84	F8 Basin	18.2	123.6	11.62	969.00	620	9.18	61	1000	Clear sunny day, no recent rainfall events. Basin level very low, soon to be desilted and relined. Water is very brown & turbid. Exceeding 1000NTU. Slight odour due to low water level.	Elevated EC and pH have been recorded in previous sample rounds in this location; therefore these results are not outside of range recorded previously.
24/5/2025, 11:51 AM®	EPL85	MY07 Basin	12.17	50.4	5.4	730	467	8.97	133	1,000.00	Overcast day. Recent rain event. Water brown and turbid over 1000 NTU. Water has no odou or sheen. Minor inflows off road. Basin at 75%.	Low DO, elevated EC and pH have been recorded in previous sample rounds in this location; therefore these results are not outside of range recorded previously.
24/5/2025, 12:02 PM®	EPL86	LHG01 Basin	12.32	58.7	6.26	929.00	595	8.39	152	448	Overcast day. Recent rain event. Water slightly turbid. No odour or sheen. No current inflows.	Low DO, elevated EC and pH have been recorded in previous sample rounds in this location; therefore these results are not outside of range recorded previously.
12/5/2025, 10:29 AMII	EPL98	Rock blanket diversion monitoring under GFO1 liner		-	-						DRY	Location is dry.
2/5/2025, 11:18 AMII	EPL99	Marica Leachete Basin-Turkey's Nest	10.47	60.6	6.76	354	230	10.62	-13	63.6	Clear sunny day. No odor. Milky colour. Basin half full.	Low DO, elevated EC and pH have been recorded in previous sample rounds in this location; therefore, these results are not outside of range recorded previously.
23/5/2025, 2:51 PMII	EPL100	Marica Lower Leachate Basin USS Shaft	9.72	60.9	6.9	541	246	8.62	132	991	Rainy day. High turb. Brown water. No odor. Minor oily sheen visible.	Low DO, elevated EC and pH have been recorded in previous sample rounds in this location, therefore these results are not outside of range recorded previously.
2/5/2025, 11:28 AMIZ	EPL101	Marica Leachate Basin Spoil Pad	8.82	92.5	10.72	635	406	9.06	84	89.7	Sunny clear day. Milky coloured water. Algae. Fuel spill into basin 3weeks ago. Basin water level very low.	Elevated EC and pH have been recorded in previous sample rounds in this location, therefore these results are not outside of range recorded previously.
3/5/2025, 8:15 AMII	EPL106	Ravine Bay Leachate basin 1	11.81	90.1	9.71	1,460.00	936.00	8.92	151	192	Cold clear morning. No recent rain events. Basin level is lower than normal. Water is clear with suspended solids. No odour. No sheen.	Elevated EC and pH have been recorded in previous sample rounds in this location, therefore these results are not outside of range recorded previously.
16/5/2025, 10:50 AMII	EPL110	Upstream monitoring of Ravine Bay emplacement area		-							DRY	Location dry.
	EPL118	Ravine Bay Leachate basin 2		-	-		-				DRY	Location dry.
-	EPL120	Ravine Bay Leachate basin 4									DRY	Location dry.
28/5/2025, 9:04 AM	EPL122	GFO1 Drainage Line (Formerly EPL SSb)	11.64	87.5	9.49	658	421	8.64	244	499	Recent heavy rain. More flow than usual. Milky colour. High turb.	The consistently low levels found when sampling this location can impact sample results, though we have consistently seen these results in previous sample rounds recorded.
Table 2 - Reservoir Water	r Quality Data					Water Quality	Objectives (see no	te 2)			1	
Talbingo and Tantangara	Reservoirs		Temp (°C)	DO (%) 90 - 110	DO (mg/L)	EC (µS/cm) 20 - 30	TDS (mg/L)	pH 6.5 - 8.0	Redox (mV)	Turbidity (NTU) 1 - 20	1	
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
4/5/2025, 8:46 AME	EPL10	Tallbingo Reservoir, downstream of road works and upstream of water intake point	14.96	59.7	6.02	54	35	7.58	205	4.3	Clear sunny morning, no recent rainfall. Bit of dust across surface. No odour, water is clear	Results including the lower DO and EC results lie within data records for previous sample rounds.
4/5/2025, 8:32 AM	EPL11	Talbingo Reservoir, downstream of outlet	14.97	57	5.75	50	32	7.47	206	5.2	Clear sunny morning, no recent rainfall. Less algae then previous month, no odour, no sheen.	Results including the lower DO and EC results lie within data records for previous sample rounds.
25/5/2025, 9:14 AM□	EPL28	Tantangara Reservoir, upstream of works in the mouth of the Murrumbidgee River	8.37	104.7	12.29	31	20	7.26	318	13.9	Sunny day. Heavy recent rainfall. Greenish, grey water colour. No odor. Hach meter turb	Results including the lower DO and EC results lie within data records for previous sample rounds.
25/5/2025, 9:43 AMII	EPL29	Tantangara Reservoir, downstream of works area and upstream of lower Murrumbidgee River	9	104.1	12.03	30	20	7.19	349	17.3	Heavy recent rainfall. No odor. Greenish grey water colour. Less algae tham previous month. Hach meter turb.	These results are consistent with previous samples recorded for this location .
25/5/2025, 9:36 AMII	EPL32	Tantangara Reservoir, Tantangara Intake. Downstream of construction works	8.88	76.3	8.85	30	20	7.22	353	17.7	Heavy recemt rain. Green grey water colour. No odor. Hach meter turb.	These results are consistent with previous samples recorded for this location .

EPL 21266 In Situ Water Quality Measurements

EPL 21266 In Situ W		Measurements										
EPL Monthly Monitorin	ng May 2025	T .										T
17/5/2025, 12:40 PME	EPL38	Tantangara Reservoir, variable location dependant on tide and reservoir levels. Between the emplacement area and the ancillary facilities for emplacement activities	13.16	68.6	7.21	23	15	7.63	243	40.3	Clearer water, windy breeze, sunny day, cool temp. No recent rain. No odors. Green colour- surface of water is clear.	The low DO, EC, and higher turbidity seen within this round is consistent with the water levels of the reservior at the time of samples taken. These results still remain within range from previously recorded samples taken.
17/5/2025, 9:04 AM⊞	EPL39	Confluence of Nungar Creek and Tantangara Reservoir, variable location dependent on tide and reservoir levels. Upstream of Tantangara construction works	9.63	68.6	7.81	27	18	8.76	156	22.6	Low level water, slow flow, cloudy foggy morning. No sun. Some bubbles on surface. Evidence of duck activity in the stream.	Low DO and EC could be attributed to the algae bloom recorded near sample location, but isn't outside of ranges we've recorded in previous samples taken in this location.
4/5/2025, 11:56 AMII	EPL40	Confluence of the upper Murrumbidgee River and Tantangara Reservoir, variable location dependent on tide and reservoir levels. Upstream of works	10.9	96.7	10.7	40.4	36	8.31	138.4	4.38	Taken from shoreline, reservoir too low for boat access. Clear flowing water. No odour or sheen.	These results are consistent with previous samples recorded for this location .
25/5/2025, 10:02 AMII	EPL 46	Tantangara Reservoir, diffuser outlet discharging into Tantangara Reservoir from Tantangara STP/PWTP	8.8	84.3	9.8	34	22	7.1	367	0.8	Heavy rain in recent days. Greenish grey water colour. Less algae than previous months.	These results are consistent with previous samples recorded for this location .
25/5/2025, 9:49 AMII	EPL 51	Tantangara Reservoir, downstream of Tantangara STP/PWTP diffuser outlet	8.94	85.6	9.91	30	20	7.18	349	14.3	Heavy recent rain. Green grey water colour. Less algae than previous months. Hach meter turb.	These results are consistent with previous samples recorded for this location .
4/5/2025, 8:01 AMII	EPL107	Upstream monitoring of Ravine Bay emplacement area within Yarrangobilly River	15.03	63.9	6.44	28	18	7.47	197	10.1	Clear sunny morning, no recent rainfall. Less algae then previous month. No odour, no sheen	These results are consistent with previous samples recorded for this location .
4/5/2025, 7:49 AMII	EPL108	Monitoring of Ravine Bay emplacement area (center of PSE) within Yarrangobilly River	15.27	75.3	7.55	24	16	7.5	192	18	Clear sunny morning. No recent rainfall. Less algae then previous month, no odour, no sheen.	These results are consistent with previous samples recorded for this location .
4/5/2025, 7:40 AM⊞	EPL109	Upstream monitoring of Ravine Bay emplacement area within Yarrangobilly River	14.6	84.4	8.62	25	16	7.63	186	21.4	Sunny day, clear morning. Less algae then previous months. Clear water. No odour, no sheen, no recent rain	These results are consistent with previous samples recorded for this location .
Table 3 - Treated Water (Quality Data					Water Quality	Objectives (see not	te 3)			1	
Talbingo			Temp (°C)	DO (%)	DO (mg/L)	EC (µS/cm)	TDS (mg/L)	pН	Redox (mV)	Turbidity (NTU)		
						700		6.5 - 8.0		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
25/5/2025, 9:21 AMB	EPL41	Lobs Hole STP/PWTP Final Effluent Quality Monitoring Point. Downstream of final treatment, prior to discharge to Talbingo Reservoir.	14.59	68.7	6.99	16	10	8.01	147	18.9	Nitrile gloves, alcohol wipes, correct methodology with QC sampling. QA1 and 2 taken from here too. Water is very clear, no odour. Water was purged for 2 minutes before sampling.	These results are consistent with previous samples recorded for this location .
Table 4 Towns during 1	Surdie: Bata					Water Couling	Objective for an	n- 21			1	
Table 4 - Treated Water C Tontongoro	Quality Data		Temp (°C)	DO (%)	DO (mg/L)	EC (µS/cm)	Objectives (see not TDS (mg/L)	pH	Redox (mV)	Turbidity (NTU)		
						200		6.5 - 8.0		25		
Date and Time	EPL Site ID	Location Description	Temp (°C)	DO (%)	DO (mg/L)	EC (uS/cm)	TDS (mg/L)	ρН	Redox (mV)	Turbidity (NTU)	Field Comments	Context
26/5/2025, 9:26 AMII	EPL50	Tantangara STP/PWTP Final Effluent Quality Monitoring Point. Downstream of final treatment, prior to discharge to Tantangara Reservoir.	7.3			46.18		7.58		0.39	Dewatering team completed sampling at 1:30am on 25/05/2025. Insitu readings are from their fixed unit, not Horiba or YSI. No anomalies noted.	These results are consistent with previous samples recorded for this location .
											1	
Table 5 - Groundwater Q			Tama (IC)	DO (N/)	DO (mg/L)	Water Quality EC (μS/cm)	Objectives (see not TDS (mg/L)		Redox (mV)	Turbidity (NTU)		
GF01 Surface Water and	Groundwater		Temp (°C)	DO (%)	JO (mg/L)	EC (μS/cm) 30 - 350	IUS (mg/t)	pH 6.5 - 8.0	Redox (mV)	rurbidity (N1U)	1	
											-	
Date and Time	EPL Site ID	Location Description	Temp (°C)	DO (%)	DO (mg/L)	EC (µS/cm)	TDS (mg/L)	pН	Redox (mV)	Turbidity (NTU)	Field Comments	Context
6/5/2025, 2:27 PM≅	EPL1	Wallace Creek Bridge	16.56	84.9	8.26	916	586	8.18	-128	188	Overcast. Soil over well cap. No recent rain. No odour. SWL 2.99. Slightly turbid. Faint Metallic smell. Metallic sediment present in hydrasleeve. Stock pile present on uphili pad. Basin desilting recently completed.	Elevated EC and pH are within the previously recorded range for this location. Presence of sediment and increased turbidity suggests bore is due for development.
											1	Elevated EC and pH is within historical range for this location.

EPL 21266 In Situ Water Quality Measurements

EPL 21266 In Situ W EPL Monthly Monitorin		Measurements												
6/5/2025, 3:13 PME	EPL4	Portal Access									Bore cap underwater. Uncontaminated sample not possible.	-		
6/5/2025, 2:53 PM®	EPL25	Portal Access	15.51	89.2	8.88	420	273	8.16	-43	60.3	Overcast day. No recent rain. SWL 3.71. Water over ground at monument base. Slightly turbid. Metallic sediment in hydradeeve. Slight metallic smell	Elevated EC is within historical range. Increased pH and turbidity potentially due to surface water ingress.		
5/5/2025, 7:23 AMII	EPL56	GF01 Upstream east groundwater well	12.62	25.7	2.73	234	152	7.9	102	22	Clear day. No recent rain. SWI. 10.72m. Concrete cracked around cap. Low turb. No odor. Shaping of PSE occuring down gradient.!!!	Elevated EC and pH are within historical range. Fluctuations in these values can potentially be attributed to surface water ingress due to degradation of plinth. Due to the final design of the PSE, this site may no longer be representative of upstream conditions.		
19/5/2025, 9:11 AMB	EPL57	GF01 upstream west groundwater well	12.72	22.8	2.42	226	147	8.69	-96	85.7	No odors, no colour, clear water, no prev rainfall, no works going on today.⊞	Elevated EC and pH is within the previously recorded range. Fluctuations in these values can potentially be attributed to surface water ingress due to degradation of plinth. Due to the final design of the PSE, this site may no longer be representative of upstream conditions.		
19/5/2025, 9:48 AMII	EPL58	GF01 Downstream Groundwater well	15.39	25.2	2.51	936	599	5.97	235	61.3	Water was warm, clear, odorless, no rain prev, no works current at time of sample	Exceedances in pH and EC are within the previously recorded range. Site has been reported as impacted by GF01.		
17/5/2025, 9:23 AMII	EPL68	Leachate detection BH downstream East	11.68	56	6.08	15	9	6.6	274	18.9	Clear water, no odors, cloudy day, no prev rainfall⊠	Results are consistent with the previously recorded range		
17/5/2025, 9:35 AMII	EPL69	Tantangara groundwater downstream East	11.28	54.2	5.94	30	19	6.56	292	36.5	No odors, clear water with slight sediment that is orange in colour. No prev rainfall, foggy morning 8	Results are consistent with the previously recorded range		
24/5/2025, 12:23 PME	EPL70	Tantangara groundwater upstream	10.84	53.4	5.91	134	87	6.5	370	45.2	Rainy day, rain overnight, some sediment in the bottom of the sleeve, no odour?	Results are consistent with previously recorded data. Location upstream of any works.		
2/5/2025, 9:04 AMII	EPL 72	Marica groundwater upstream	8.84	52.8	6.13	58	38	6.52	-2	54.3	SWL 37.05m. Sunny cool day. No odor. Small amount of sediment at bottom of hydrasleeve.2	Results are consistent with historical range. Location upstream of any works.		
5/5/2025, 2:18 PM2	EPL73	Marica groundwater downstream										This site has been decommissioned.		
24/5/2025, 12:42 PM®	EPL80	DHG groundwater upstream	15.2	19.5	1.95	924	591	6.73	-17	229	Overcast day, Recent rain event. SWL unable to measure due to dipper malfunction. Water clear with sediment settling at bottom of hydrasleeve and visible suspended solids. No odour	Location upstream of works, representative of background .conditions. Elevated EC is within the previously recorded range.		
7/5/2025, 6:58 AMII	EPL81	DHG groundwater downstream	13.35	18.2	1.89	851	545	6.87	2	1000	SWL: 4.17m Sunny clear morning. No recent rainfall. No odour. Water is very turbid, exceeding 1000 NTU. Usually sample taken with hydro sleeve however bore pump is installed but not working, samplw collect using waterra hose and foot valve hence high NTUII.	High NTU recorded due to sampling methodology. High EC consistent with upstream site.		
5/5/2025, 11:20 AMII	EPL82	MY groundwater upstream	17.44	13.7	1.31	2340	1500	6.74	-2	47.1	SWIL: 9.07m Clear sunny day, no recent rainfall events. Clear water, no odour. High EC as per previous samples.	Location upstream of works, representative of background conditions. Elevated EC is within the previously recorded range.		
05/05/2025, 2:29 PMII	EPL83	MY groundwater downstream	17.41	6.34	1.83	529	339	6.34	39	19.3	Sunny, partly cloudy, no recent rainfall. No odour, clear water.	Low pH and elevated EC within previously recorded data range and consistent with upstream locations.		
24/5/2025, 10:57 AMII	EPL87	MY groundwater downstream	15.63	18.8	1.87	827	529	6.4	193	92.8	SWL:unable to measure due to bore pump. Overcast day. Recent rain event. Water clear. No odour. Water extracted using bore pump. 2	Low pH and elevated EC within previously recorded data range and consistent with upstream locations.		
5/5/2025, 2:18 PM型	EPL88	MY groundwater downstream	17.05	25.9	2.5	716	458	6.9	-76	2.2	SWL: 3.43m Cloudy day, no recent rainfall. Sulphur odour,clear water.?!	Elevated EC within previously recorded data range and consistent with upstream site.		
5/5/2025, 10:37 AMII	EPL89	LHG groundwater downstream	14.94	24.6	2.48	320	208	6.91	163	112	SWL: 3.3m Clear sunny day. No recent rain events. Water is very clear, slightly viscous. No odour.	These results are consistent with previous sampling rounds.		
6/5/2025, 3:40 PME	EPL 90	GF01 groundwater downstream	15.26	90	9.02	66	43	8.18	169	1000	Overcast day. Bore pump not operational. Slightly turbid. No odour.	turbidity due to temporary sampling methodology (foot valve and		
19/5/2025, 8:00 AMII	EPL 91	GF01 groundwater downstream	14.22	23.9	2.45	192	125	6.87	2	37.4	Sulphuric smell, no color/sediment, no prev rainfall, cool morning. Bore hole not fully enclosed see photos	These results are consistent with previous sampling rounds.		
19/5/2025, 8:39 AMII	EPL 92	GF01 groundwater downstream	10.18	77.4	8.69	497	323	8.13	30	161	Purged the pump for a minute, brown sediment laden water was comjng out then it cleared up. Still orange in color, not as thick. No odors, no prev rainfall	These results are consistent with previous sampling rounds. Elevated turbidity to be managed through upcoming bore development program.		
19/5/2025, 8:51 AM	EPL 93	GF01 groundwater downstream	13.09	19.6	2.06	208	135	7.1	150	915	Heavy orange sediment was purged before we collected sample. Still came ouf orange colour but clearer than becore. No odor. No prev rainfall.	These results are consistent with previous sampling rounds. The high furbidity could be attributed to sampling methodology (foot valve and hose).		
19/5/2025, 8:59 AM	EPL 94	GF01 groundwater downstream	13.11	33.4	3.51	150	97	6.85	0.1	119	ORPMV = -10, CLEAR WATER LITTLE COLOUR. no prev rain. No odors.	These results are consistent with previous sampling rounds.		
19/5/2025, 9:56 AM	EPL 95	GF01 groundwater downstream	15.3	101.3	10.11	1,001.00	644	6.09	238	24.5	No odor, no prev rainfall, no works current at time of sample, no colours	These results are consistent with previous sampling rounds.		
19/5/2025, 10:06 AM	EPL 96	GF01 groundwater downstream	14.52	30.3	3.08	811	519	7.32	197	915	Orange colour, smelt like landfill. Open at the top of bore, no construction works happening at time of sample	These results are consistent with previous sampling rounds. The high turbidity could be attributed to sampling methodology (foot valve and hose).		
19/5/2025, 10:36 AM	EPL 97	GF01 groundwater downstream	15.22	54.8	5.49	424	276	6.89	213	23.7	Noodors, no prev rainfall, clear water, no sediment, no need to purge.	These results are consistent with previous sampling rounds.		
	EPL102	Groundwater monitoring associated with the Marica emplacement area on Marica Trail									* EPL Point Decommissioned This location has been decommissioned.			
17/5/2025, 10:35 AM	EPL103	Upstream groundwater monitoring west of the Tantangara emplacement area	11.44	71.7	7.82	34	22	6.21	285	33.3	No odor, no sediment, clear water. No prev rainfall.	The results, including the low pH is consistent with samples previously taken		
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EPL 21266 In Situ Water Quality Measurements

EPL Monthly Monitorin		neast chieffs										
17/5/2025, 10:00 AM	EPL104	Downslope groundwater monitoring east of the Tantangara emplacement area	11.66	44.9	4.87	41	26	6.27	294	23.7	No prev rainfall no odors, clear hydra sleeve - no sediment. No works happening today.	The results, including the low pH is consistent with samples previously taken
24/5/2025, 11:16 AMR	EPL105	Downslope groundwater monitoring east of the Tantangara emplacement area	11.1	95.9	10.55	131	85	6.41	386	177	Rainy day, rain overnight, no smelly, water taken from the pump	The results, including the low pH is consistent with samples previously taken
3/5/2025, 9:34 AM	EPL113	Upstream east monitoring of Ravine Bay emplacement area	12.26	22.5	2.41	129	84	6.13	120	556	SWL: 3.04m Clear cold morning. Continual works ongoing at PSE. No recent rain events. Water is slightly turbid, a bit of a milky consistency, no odour.	The results, including the low pH is consistent with samples previously taken
3/5/2025, 9:07 AM	EPL114	Upstream west monitoring of Ravine Bay emplacement area	12.05	26.7	2.87	341	221	7.27	-28	34.8	SWL: 31.91m Clear cold morning. No recent rain events. Water is clear, no odour. Continual works ongoing at PSE	These results are consistent with previous sampling rounds.
3/5/2025, 9:56 AM	EPL115	Downstream east monitoring of Ravine Bay emplacement area	12.55	18.7	1.99	316	206	7.4	61	176	SWI: 11.2m Cold clear morning. No recent rain events. Ground disturbance nearby with a digger in the basin. Water is clear, no odour.	These results are consistent with previous sampling rounds.
3/5/2025, 7:50 AM	EPL116	Downstream west monitoring of Ravine Bay emplacement area	12.8	61	6.45	167	108	7.27	188	1,000	SWI.: 8.33m. Verycold, clear morning. Frost on the ground. Water is brown turbid exceeding 1000 NTU, no odour. Recent ground disrurbance nearby at spillway. Access created for mulch distrubution	These results are consistent with previous sampling rounds. High turbidity potentially due to sampling methodology (foot valve and hose).
3/5/2025, 8:50 AM	EPL117	Downstream monitoring of Ravine Bay emplacement area	12.34	17.6	1.88	122	79	6.72	-25	167	SWL: 15.90m. Cold clear morning. No recent rain events. Water is slightly cloudly, milky viscous consistency, clogging the large filters up, no odour. Ongoing works at PSE	These results are consistent with previous sampling rounds.
10/5/2025, 8:41 AMII	EPL123	GW Upstream W Rockforest	11.52	48.3	5.26	36	23	6.59	236	1000	SWL-7.88m, sunny day, turbid water, sediment in the bottom of the sleeve?	These results are consistent with previous sampling rounds. High turbidity potentially due to sampling methodology (foot valve and hose).
21/5/2025, 8:01 AM®	EPL124	GW upsteam (NE) Rockforest	12.18	63	6.76	22	14	5.82	328	193	Clear sunny conditions, frost in the morning with limited rain over the previous week. Minor/moderate turbid sleeve, with no signs of odour or other anomalies. Minor/moderate turbid sleeve, with no signs of odour or other anomalies.	The low EC and pH is within range for previously recorded data for this location.
27/5/2025, 10:59 AMII	EPL125	GW Downstream (S) Rockforest	11.44	92.4	10.09	109	71	6.34	348	902	Sunny day and cold, turbid water and sediment placed at the bottom of the sleeve®	These results are consistent with previous sampling rounds.
10/5/2025, 9:54 AMII	EPL126	GW Downstream (SE) Rockforest	10.42	17.6	1.07	307	200	7.57	214	1000	SWL6.18M Milky colour sediment No odor No prev rainfall⊠	These results are consistent with previous sampling rounds. High turbidity potentially due to bore requiring development.
27/5/2025, 9:21 AM⊞	EPL127	GW Downstream Rockforest	11.34	38.1	4.16	118	77	6.8	340	39.8	Sunny day, very cold, no odors,clear water®	These results are consistent with previous sampling rounds.

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 AREECC/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 Els.

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.

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⦥=POEO%20licence&prp=no&status=Issued
Premises:	Snowy 2.0 Pumped Hydro Power Station Talbingo and Tantangara, Kosciuszko National Park and Rock Forest, Kosciuszko NSW 2642

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

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

<u>Surface Water Results:</u> Ammonia concentrations were slightly elevated in some EPL locations along Wallaces Creek, Yarrangobily River, and Murrumbidgee River. EPL24 is reported elevated nutrient and select heavy metal concentrations alongside elevated EC concentrations which have been recorded previous sampling rounds. These results are consistent with low flowing, shallow waterway that was observed at the time of sampling. There are exceedances noted from EPL122 where the concentrations of Nutrients, Electrical Conductivity, Phosphorus, and Ammonia are exceeding our WQO's and could be attributed to environmental conditions of shallow waterways and low flows, with lots of surrounding vegetation.

Reservoir Results: Tantangara and Talbingo Reservoirs report consistent elevations in nitrogen in line with those data captures from previous monitoring events. Reduced water levels, consistent Nitrogen concentrations and the developing algal cycle within the Tantangara and Talbingo water bodies are understood to heavily influence the fluctuations in dissolved oxygen levels, such as those reported at EPL10, EPL29 and EPL39. EPL39 was captured during an extremely low water level time and is understood to be unrepresentative of the water quality at the time of monitoring. Elevated levels of Faecal coliforms, EC and Ammonia are potentially attributed to the fluctuations in water levels and the collection of samples from the waters.

Discharge Results: Results for the discharge locations met the adopted WQO's for the periods of discharge. The disdharge from EPL50 on the 26th was registered in the early hours of the morning prior to results returning. FGJV is in the process of finalising the discahrge procedure which returns monitoring back to the EPL license for greater clarity.

Groundwater Results: Results for groundwater bores surrounding Lickhole Gully have reported elevated concentrations of nutrients and select dissolved heavy metals. These heavy metals have been reported previously as being above adopted WQO's and are possibly influenced by the historic mining activities in the immediate vicinity. GF01 down gradient locations comprise similar characteristics. These elevations are not only seen in LHG PSE area but also in GF01 PSE down gradient locations. EPL1 which is sampled quarterly has returned elevated Electrical Conductivity, Ammonia, and Nutrient levels although this is not outside of data recorded from previous sample rounds.

Leachate results: The exceedances found within the leachate basin results are in line with intended design functionality for the storage of PSE generated leachate water. GF01 basin has previously been reconstructed and has not since had water in it to sample.

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

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

Snowy Hydro 2.0 Main Work tonthly EPL Sampling: 01-31 May 2025 - Groundwate

			1 May 2025 - Groundwater	8913	972	EPLA	8933	EP1.51	8937	87.58	EPLAN	EPL69	89070	EPUZ.	EPL73 (decommisioned)	671.80	enn	19482	19183	891,87	erum.	17189	EPL 90	PL 91	EPUS2	EP133	EPIM	enes	EP1.96	891,97	EPL302 (Decommissioned)	891383	EP1304	EP1.105	64777	671314	EP1333	8943	16 670
Analyte	Unit	Limit of Reporting	Water Quality Objective Value*																															1					
Tyriochemical				6/95/2004	6/85/2004	5/95/2004			19/45/2015	19/95/2025			24/95/39	5 2/95/20	8 .		7/05/28135	5/95/2925	5/95/2005	24/95/2025	5/65/2025	5/85/2925				19/95/2025	19/95/2025	15/95/3025	19/05/2025	39/95/2005		17/95/2023	17/85/2005	24/95/2925			MW/865	3/95/3	(025 1/95
p#1	pit (int		6.5-8	8.18	8.17		8.16	7.9	8.69	5.97	1.0	0.50	6.5	9.52		6.73	6.87	9.74	6.34	5.4	6.5	6.91	8.18	6.87	8.11	7.3	0.83	6.09	7.82	1.87		0.21	6.27	6.41	9.12	2.27	7.6	7.8	_
Electrical Conductivity	philine		30-350	996	490		409	234	226	106	15	30	134	58		924	851	2340	529	627	716	339	66	192	497	258	150	1005	811	911		34	43	131	129	341	316	367	
Oxidation Reduction Potential	mv		No Water Quality Objective Value	-528	2		-43	332	-96	295	274	292	370	-2	-	-97	2	-2	35	293	-76	263	149	2	30	190	0.1	258	197	197		285	294	386	130	130	64	188	
Temperature	¥	-	No Water Quality Objective Value	16.56	15.75		25.52	12.62	12.72	15.99	23.68	11.29	22.84	9.60	-	13.35	13.35	17.66	17.60	15.63	17.65	16.96	15.26	56.22	10.18	13.09	13.11	15.3	14.52	16.52		11.64	11.66	13.3	12.26	12.05	12.55	121	# 12
Dissolved Daygen	Numeration		No Water Quality Objective Value	84.9	90.4 224		89.2	15.7	22.8	25.2	56	54.2	55.4			18.7	18.7	15.7	6.34	18.6	25.9	24.6	90	25.9	77.4	12.6	33.4	371.3	30.5	30.5		73.7	44.9	99.9	22.5	36.7	18.7	61	
Tarkidity	MIG		No Water Quality Dispective Value	180	334		66.3	22	85.7	61.3	28.9	36.5	46.2	54.8	-	229	1000	47.1	19.3	92.8	33	112	1000	87.4	164	995	119	24.5	915	29.7		33.3	29.7	177	556	34.8	176	300	0 1
aboration analytes				$\overline{}$																																			
755	700	5	No Water Quality Objective Value	124	396		20	14	18	5	- 6	212	12	24	-	15	23,300	108	9	33	- 6	12	424	36	654	206	53	6	3,197	12		18	9	3.7	400	18	216	6.51	1,6
Handness as CaCO3	meX		No Water Quality Objective Value	_				-				_	_	_										-		-			-	-		-			_		_	_	-
nutrients				$\overline{}$																																			$\overline{}$
Ammonia as N	Ази	30	13	460	70		30	10	+30	+10	+30	410	+10	30		30	270	120	60	+10	240	10	20	60	120	30	30	30	350	90		+30	<10	*10	20	40	30	40	
Nitrite + Nitrate as N (NOs)	A94	32	15	*10	190		110	120	1,530	64,790	740	120	810	40	-	110	(3)	190	<10	9,960	di	30	690	138	40	20	30	56,300	16,400	290		879	220	2,510	40	<93	40	30	-
Kjeldahi Nikrogen Total	245	100	No Water Quality Objective Value	790	100		330	+100	180	7,300	100	1330	+330	1100		100	14,300	200	200	900	300	+300	+1,000	100	+1.000	100	200	1,800	6,300	+100		1300	1380	100	1,500	100	200	2.30	40 I
Nitrogen (Total)	100	100	250	790	200		3690	100	1,600	71.900	900	100	900	<100		100	14,300	300	300	10.500	200	4200	<1.000	100	c1.000	100	200	62:000	22,700	100		900	200	2.600	1 500	100	200	3.30	20 21
Reactive Phosphorus	net.	1	15	/10			110		(30)			(10	21					10	/10	10	(11)	/30	430	/10	(12	r30	/10	+10	(10	r33		/10	(10)	+10	/30	+33	(10)	+50	0 41
Phospherus (Tetal)	240	32	20	170	100		32	20	40	+10	- 60	30	- 10	10		210	7,790	- 60	40	42	90	90	6,000	198	430	10	60	- 10	2.710	22		60	10	20	100	60	60	1.50	.0 1
accepie)						_							_																						_			_	
Cyanide Total	144	4	4	-			-	- 14	- 18	- 04	-18	- 16	- 18	- 0		- 18	- 18	- 14	- 18	-16		-16	- ot	- 18	- 18	-18	- 01	- 18	- 68	44		-44	- 18	- 46	- 18	-18	- 18	- 18	
ndrosadions				$\overline{}$	_	_	_	_																															
Oil and Grease	ma\	1	5	_			-	41.0	<1.0	<1.0	<1.0	41.0	<10	410		41.0	<1.0	*1.0	45.0	*10	<1.0	<1.0	<1.0	*10	41.0	41.0	<1.0	<50	41.0	41.0		45.0	45.0	41.0	41.0	41.0	11.0	43.0	6 7 4
details				-	_	_		_						_			_	_			_														_				_
Aluminium Botall	ua/L	5	No Water Quality Objective Value	-			-	159	130	112	266	2.090	1,040	- 44								-				-			1.560							-			\neg
Aluminium (dissolved)	yes.	5	27	-15	-5		-15	15	-45	15	-5	15	-15	7	-	- 4	-45	-15	- 45	-15	- 4	-15	- 15	-5	- 4	-45	- 15	-5	- 45	-45	-	15	-15	-15	7	-45	27	15	
Arsenic Buttell	Apr.	0.2	No Water Quality Objective Value					16.2	2.4	10.2	10.2	0.0	-0.2	16.2						-						_			1.6	-			-					_	-
Araenic idissolvedi	145	0.2	0.8	1.4	2.2		0.2	10.2	2.5	10.2	40.2	10.2	+0.2	16.2	-	2.2	7.0	18.5	13.6	0.3	28.5	0.4	40.2	0.9	0.3	1.1	0.8	0.8	0.8	0.3		-0.2	40.2	-0.2	0.4	0.4	0.4	0.0	-
Chromium (III.4VI) frond)	Agu	0.3	No Water Quality Objective Value						0.4	- 11	6.3	3.6	- 0.0	- 03															17.0										
Oversium [11-V] [dissolved]	PB/S	0.2	No Water Quarty Objective value	-	-02	-		10.2		2.5	10.2	2.8	0.3	0.3	_	10.2				10.2	-	10.2	10.2	10.2	10.2	-0.2			15.8			10.2		10.2	10.2		10.2	-	2 15
Copper fortel	160	0.2	No Water Quality Objective Value	- 4.5	47	_	10.2	13.5		172	10.5	- 27	10.2	11		-9.7	19.7	10.2	42	16.7	- 02	40.2	10.2	19.7	40,7	40.7	102	9.2	12.9	4.5		10.2	9.7	10.7	407	10.7	19,2	-	
	740		No many Carriery Dispersion Value	1		+	110	- 23	1 17	100	-0.5	7.7	100	- 11		-0.5		-01	1 1	10		100	13	49.5	105		-01	-	17	40.5		9.1	40.5	1	1 11	-0.1	10.5	-	5 4
Copper introduced	140		No Water Quality Objective Value	- 0.7	15.7	_	279	1 100	105	164	-03 80	1,970	100	- 18		-9.5	-95	-0.5	14	1.5	-05	1.9	+ "	-93	-05	-03	-03	40.7	1,660	-0.3		- 41	-93	1.0	- 11	40.5	-0.5	- 40	-
iron (dissolved)	PEA.		No Water Quarry Cognitive Value	-	- 4	_		- 227	120	100		1,970	845	- 4		- 9	440	2.190	- 43		(3)		- 2	-			-	- 0	1,000				- 0		- 0	-			- 45
Lead (total)	PRIN		No Water Quality Objective Value	- 12		-		12	- 61	10	401	-		0.1		- "	145	2,190	-	12	544			-		-		- 4		- 4		12		- 4	- 12		-	- 4	
Lead (dissolved)	760	- 23	No Womer Quanty Objective Value	10.1	10.1	-		10.1	10.1	9.9	401	1.6	0.5	40		-9.1				18.1	19.1	:01	10.1	181		-61		9.1	9.5	10.1		10.1	41	10.1			41	-	1 4
Manganese (total)	PEC	85	No Water Quality Objective Value	1814		-	19.5		955	162	10.1	10.1	152			10.1	10.0	10.1	10.0	10.0	19.4	10.1	10.4	10.0	0.4		16.4		194	10.1		19.1		10.1		10.1	19.5	-	-
Manganese (total)	14/4	6.5	No Water Quarty Objective Value	-	491	-	-	313		12.4	16	112	15.7	5.4						129	- 1	61	62	806	55.0	79.6			107	112	-		- 11		20.5	165	175	-	
Manganese (dissalved)	146	0.5	1,200	110	631	-	795		67.0	12.4	1.6	2.1	1.2	2.0		212	258	350	75.1	129	188	6.1	6.7	606	55.0	29.8	292	108	112	117	-	0.9	8.2	44.0	72.5	365	375	28.9	
Nidel (total) Nidel (disolved)	185	- 13	No Water Quality Objective Value	-	5.3	-				52		1.1	- 05	1.7		17.6	-	- 63	12.2		-	-	+ +	-	-	-	42	-				-	40.5	-	-	-	-	-	
	145	6.5		2.6	5.3	-	34.8		46.5		40.5	+0.5				17.6	2.0	0.9	17.7	14.3	2.6	1.6	2.7	0.8	1.4	-0.5	8.7	14.3	4.6	1.8		<0.5	45.5	5.4	46.5	22.0	43.5	6.7	\rightarrow
Silver (total) Silver (dissolved)	Jak.	0.01	No Water Quality Objective Value	_	_	-	_			0.02	-0.01	0.00	403			-	-	-	-	-	-	-		-	-	-		-	+0.00	-	-	-		-	-	-	_	-	\rightarrow
Silver (dissolved)	Apr	0.01	0.0.0	<0.01	-101		<0.01	-0.01	4031	-1.01	-0.01	40.00	40.05	40.0	-	40.00	4005	-0.01	+0.01	<0.01	40.00	-0.01	+0.01	<0.01	40.01	<0.01	-2.01	<0.01	40.00	<0.01		<0.00	40.00	-0.01	49.01	-0.01	40.00	-10	1 49
Zinc (tunal)		1 1	No Water Quality Objective Value	_	-			,		13	4		1	7		-	-	-	-		-	-	-		-		-		23			- 1	-	-	-	-	- 61		\rightarrow

Water Quality Objective values for groundwater refer to the default trigger values for physical and chemical stressors in south-east Australia (upland rivers), the protection of 99% of aquatic species ANSTEC / ARMCANI (2000), they are not published livers imposed by 69°L 21266.

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

Analyte	Unit	Limit of Reporting	Water Quality Objective Value*
Field			1
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
aboratory analytes			
Total suspended solids	mg/L	5	No Water Quality Objective Value
Hardness as CaCO ₃ (filtered)	mg/L	1	No Water Quality Objective Value
Nutrients			
Ammonia as N	μg/L	10	10
Nitrite + Nitrate as N (NOx)	μg/L	10	10
Kjeldahl Nitrogen Total	μg/L	100	No Water Quality Objective Value
Nitrogen (Total)	μg/L	100	350
Reactive Phosphorus	μg/L	1	5
Phosphorus (Total)	μg/L	10	10
Inorganics			
Cyanide Total	μg/L	4	7
Hydrocarbons			
Oil and Grease	mg/L	1	5
Metals			
Aluminium (dissolved)	μg/L	5	55
Arsenic (dissolved)	μg/L	0.2	13
Chromium (III+VI) (dissolved)	μg/L	0.2	1
Copper (dissolved)	μg/L	0.5	14
Iron (dissolved)	μg/L	2	300
Lead (dissolved)	μg/L	0.1	3.4
Manganese (dissolved)	μg/L	0.5	1,900
Nickel (dissolved)	μg/L	0.5	11
Silver (dissolved)	μg/L	0.01	0.05
Zinc (dissolved)	μg/L	1	8
Biological			
Faecal Coliforms	CFU/100mL	1	10/100^
Biochemical Oxygen Demand	mg/L	2	1/5^

EPL10	EPL11	EPL28	EPL29	EPL32	EPL38	EPL39	EPL40	EPL46	EPL51	EPL107	EPL108	EPL109
4/05/2025	4/05/2025	25/05/2025	25/05/2025	25/05/2025	17/05/2025	17/05/2025	12/04/2025	15/04/2025	16/04/2025	13/04/2025	13/04/2025	13/04/202
7.58	7.47	7.26	7.19	7.22	7.63	8.76	8.31	7.1	7.18	7.47	7.5	7.63
54	50	31	30	30	23	27	40.4	34	30	28	24	25
205	206	318	349	353	243	156	138.4	367	349	197	192	186
14.96	14.97	8.37	9	8.88	13.16	9.63	10.9	8.8	8.94	15.03	15.27	14.6
59.7	57	104.7	104.1	76.3	68.6	68.6	96.7	84.3	85.6	63.9	75.3	84.4
4.3	5.2	13.9	17.3	17.7	40.3	22.6	4.38	0.8	14.3	10.1	18	14.6
	•	•								•		
28	14	6	<5	<5	12	8	<5	<5	<5	8	<5	<5
33	33	9	9	9	9	7	9	9	9	17	14	14
										•		
30	30	60	60	60	<10	<10	40	100	60	80	40	70
10	30	20	10	10	10	50	<10	50	10	10	20	<10
100	200	500	500	400	1,000	<100	<100	500	500	200	200	200
100	200	500	500	400	1,000	<100	<100	600	500	200	200	200
<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
<10	10	10	20	<10	60	50	<10	10	20	20	<10	<10
<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
<5	<5	30	26	26	26	14	14	26	27	<5	<5	<5
0.4	0.4	0.3	0.4	0.4	0.4	<0.2	<0.2	0.4	0.4	0.3	0.3	0.2
<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.3	<0.2	<0.2	<0.2	<0.2
<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
5	5	96	96	97	107	53	47	92	95	3	<2	2
<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
<0.5	<0.5	1.8	1.4	1.4	2.0	1.8	3.0	1.4	1.5	<0.5	<0.5	<0.5
<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
<0.01	<0.01	< 0.01	<0.01	<0.01	<0.01	<0.01	< 0.01	<0.01	<0.01	<0.01	<0.01	<0.01
<1	<1	<1	<1	<1	1	<1	<1	<1	<1	<1	<1	<1
6	3	22	-	-	-	-	-	-	11	-	-	-
3	4	8	-	-	-	-	-	-	6	-	-	-

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

^{**} Algal blooms can present as feacal coliforms

^{^ 90}th percentile concentration limits / 100 percentile concentration limits

⁻ Sample not required at this location.

		Snr	owy Hydro 2.0 Main Works																																			
	Monthly EPL S		May 2025 - Surface Water	eps.	1716	674	675	PNS	PUM	Pus	69116	67124	6926	89427	67530	69331	6233	EPAM .	6535	6906	69,37	(25)		(PISA (PI		69.71	(Part	EPLES.	EPURS	(P).M	(7).00	EPL100	EPLIES.	EP1.106	P1330 P1		.529 EPL122	1
Analyte	Unit	Limit of Reporting	Water Quality Objective Value*		, and				- Sta	- Control	i.c.ii			Bu.	Drian .			- SA	- Lan	D-Lin	B-G/		J. Company					Drain .	iran	D.C.	5.07		ii.iii					
riese				7/85/2025	7/05/2025	3/95/2025	7/05/2025	7/05/2825	1/05/2025	7/05/2025	7/95/2025	3/05/2025	2/05/2025	18/85/2025	21/05/2025	21/05/2025	21/05/2025	21/95/2025	21/95/2025	27/95/2825	27/05/2825	Dry	Dry	Dry Dr	y Dry	23/95/2025	5/85/2025	24/05/2025	24/05/2025	Dry	2/05/2025	23/05/2025	2/05/2025	3/05/2025	Dry E	Dry D	ry 28/05/2025	п
per		-	654	8.17	8.12	8.11	8.01	8.17	8.13	8.14	8.06	6.71	8	5.92	8.09	7.78	7.59	7.52	7.43	6.83	7.28	Dry	Dry	Day D	y Dry	2.2	9.15	8.97	8.39	Dry	10.62	8.62	9.06	8.92	Dry E	Dry D	ry 8.64	П
Electrical Conductivity	ati/on		30-350	135	130	138	141	135	138	139	142	956	29	21	32	21	21	23	22	47	60	Dry	Dry	Dry D	y Dry	216	969	730	929	Dry	354	541	635	1460	Dry E	Dry D	ry 658	П
Oxidation Embetion Patential	mir		No Water Quality Objective Value	172	228	47	119	208	234	238	142	205	217	216	205	244	264	277	262	298	305	Dry	Dry	Dry Dr	y Dry	148	61	133	152	Dry	-13	132	84	151	Dry E	Dry D	ry 244	п
Temperature			No Water Quality Objective Value	9.84	8.14	9.99	9.3	9.26	8.54	8.73	8.87	14.55	4.43	6.05	7.5	7.59	9.59	7.2	7.38	8.58	6.77	Dry	Dry	Dry Dr	y Dry	3.3	18.2	12.17	12.32	Dry	10.47	9.72	8.82	11.81	Dry D	Dry D	ry 11.64	7
Dissolved Ovygen	Numberation		60:130	81	80.5	20.5	63.9	73.8	73.8	90.1	63.2	54.2	82.6	92.8	92.9	84.4	67.1	82.2	65.8	99.8	101	Dry	Dov	Dry D	y Dvy	66.9	123.6	50.4	58.7	Dry	50.5	60.9	92.5	90.1	Dry 5	Dry D		н
Turbidity	NTU		2-25	0.3	1.1	41.3	71	5.8	3.8	0.3	6.2	4.8	2.01	29.4	11.6	8.1	38	3.9	4.5	23.5	15.6	Dry		Dry D		1000	1000	1000	440	Dry	53.5	991	89.7	192		Dry D		-
aboratory analytes		_											7.01										1 01															н
75	mg/L		No Water Quality Objective Value	- 4	- 6	- 45	- 4	- 45	-15	-45	- 6	- 11	- 4	- 13	- 45	- 6	7	-15	-15	10	- 11	Dry	Dry	Do D	y Dry	Dry	606	MO	2.100	Dry	27	343	21	- 44	Dry I	Dv D	v 104	-1
Hardness as CaCO3	mg/\	1	No Water Quality Objective Value	78	72	92	90	8.8	90	90	81	276	18	16	13	9	9	9	9	13	13	Dry	Dry	Dry D	y Dry	Dry	40	41	58	Dry	120	135	205	485	Dry I	Dry D	ry 304 ry 80	н
Nutrients																																						п
Ammonia as N	P6 ^A	10	23	<10	30	10	30	40	10	<10	30	30	10	<10	10	10	40	20	<30	10	20	Dry	Dry	Dry D	y Dry	Dry	30	30	20	Dry	1,980	60	100	20	Dry 7	Dry D	g 80	п
Nikrite - Nitrate as N (NOs)	PB ^A	10	15	<10	<10	<10	<30	<10	<90	<10	<30	34,600	<10	<30	20	<10	10	10	<30	70	70	Dry	Dry	Dry D	y Dry	Dry	1,200	8,030	7,380	Dry	8,320	12,300	17,600	52,300	Dry P	Dry D	y 6,800	_
KjeldaNi Nitrogen Yotal	Par.	100	No Water Quality Objective Value	<100	<100	<300	<300	<300	<100	<300	<100	7,300	<100	<300	100	<100	600	100	100	500	500	Dry	Dry	Dry D	y Dry	Ciry	800	5,200	1,000	Dry	3,000	2,600	5,600	12,800	Dry P	Dry D	ry 500	_
Nitrogen (Total)	PA ^L	200	250	<100	<100	<100	<100	<100	<100	<100	<100	41,900	<100	<100	100	<100	600	300	100	600	600	Dry	Dry	Dry D	y Dry	Dry	2,000	13,200	8,400	Dry	11,300	14,900	23,200	65,100	Dry E	Dry D	ry 7,100	_
Reactive Phosphorus	Par.	1	15	<10	<10	<10	<22	<10	<30	<20	430	<10	<10	<20	<10	<10	<10	<22	<33	<10	<10	Dry	Dry	Dry D	y Dry	Cry	20	<10	20	Dry	<10	30	<10	<10	Dry F	Dry D	4 410	4
Phosphorus (Total)	Pak	10	20	20	50	10	50	20	10	43	40	<10	10	430	10	20	50	433	433	40	40	Dry	Dry	Dry D	y Dry	Dry	1,350	1,110	1,360	Dry	20	543	30	450	Dry E	Dry D	ry 110	-
rorganics Cyanide Total	ve/\																							-	-					_								4
	P6/4	4	4	-44	-68	-64	48	- ct	<4	- 64	-68	- 4	-44	- 4	-64	-44	-64	-64	- 68	- 68	- 44	Dry	Dry	Dry D	y Dry	Cry	-4	- 4	- 4	Dry	46	46	12	-4	Dry	Dry D	ry of	-
lydrocarbons Oil and Gresse	mg/L	-	-			47.0	1.00		410	<1.0																						410	(1.0	43.0				4
Oil and Greace	mg/L	1		<1.0	<1.0	41.0	4.0	<1.0	<1.0	<2.0	<1.0	41.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	41.0	41.0	Dry	Dry	Dry D	y Dry	Dry	<1.0	<1.0	41.0	Dry	<1.0	<1.0	41.0	<1.0	Dry E	Dry D	ry <1.0	-
Afuminium (total)		_	No Water Quality Objective Value																						_											_		-
Aluminium (Sotal) Aluminium (Sotolved)	A94	-	No Water Quality Objective Value				-	-					- 4		- 10	- 10		10		114	119	-	-		y Doy	Dev	34,900	-	-	-		- 12	9	-	floy f		-	-
Arsenic Itotali	Apr	- 2	No Water Quality Objective Value	9	9	9	9	9	9	9	9	- 0	9	9	10	10	23	10	-	114	119	Lary	Dry	Day D	y Dry	City		-	-	Dry	44	23	9	-	Day 1	Dry D	+-	-
Arsenic (dissolved)	Jan.		NO WINEY QUARTY DISJROVE VALUE	0.7	0.2	0.6	0.6	0.6	0.6	0.6	0.6	0.3	+0.2	+0.2	+0.2	+0.2	0.4	-0.2	+0.2	0.4	0.5	Dry	Dov	Dry Dr	y Dry	-	9.8	20.4	14.3	Dev	1.2	ii.	2.3	2.1	Dry I	Dry D	ny 0.6	-1
Chromium (H+VI) (tutal)	PA ^A	0.2	No Water Quality Objective Value	0.7	0.2	0.6	0.6	0.6	0.6	0.6	0.6	0.3	1912	40.7	40.2	40.2	9.4	-01	49.2	0.4	0.5	Livy	Livy	Dry D	y try	Dry	62.2	20.4	19.3	Liny	1.2	1.8	2.3	4.1	Lary 1	Dry D		-
Occasion (H-VI) (Strate)	Age	0.2	AG Water Quality Objective Value 0-01	0.2	-02	-02	0.2	0.2	0.2	0.2	40.2	0.2	0.4	0.3	40.2	10.2	-0.2	-0.2	-0.2	0.5	0.5	Dry	Dov	Doy D	y Dov	Ony	62.2	12.7	13.2	Dry	56.9	5.9	11.1	1.6	-		ny 0.6	-
Copper Inmel	ABA Van	0.2	No Water Quality Objective Value	0.2	40.2	40.2	0.2	0.2	0.2	0.2	40.2	0.2	0.4	0.3	40.2	40.2	40.2	49.2	49.2	0.5	0.5	Dry	Dry	Dry D	y Dry	City	54.7	12.7	19.2	Lity	56.9	23	31.1	1.6	Dry E	Dry D	/ 0.6	-
Capper (stran)	PART	0.5	No World Quarty Objective Value	10.5	40.5	10.5	40.5	10.5	10.5	45	40.5	0.9	49.5	10.5	10.5	40.5	<0.5	-0.5	<0.5	0.6	0.6	Dov	Doy	Doy D	- Con-	Dry	94.7	5.8	1.9	Dry	40.5	- 11	3.1	40.5	Dry I	Dry D	n 1.3	-
iron (tatal)	Part.		No Water Quality Objective Value	40.5	0.5	10.5	40.5	10.5	19.5	10.3	40.5	0.9	10.5	40.5	40.5	10.5	10.5	10.5	10.5	0.6	0.6	Lary	Lay	my n	y Ley	Liny	44.400	5.8	1.9	Lay	10.5			10.5	Lay 1	try tr		-
inn (dashed)	Apr.	- 1	No main quary capitant race	-	- 11	-			4	-	-	- 2	18	10	35	28	127	92	97	332	324	Dry	Dry	Dec D	y Dry	One	36	15	- 1	Dry	-2	- 12	- 12	- 1	Dry I	Day D	ny 23	-
Lead (total)	PA ^A	0.1	No Water Quality Objective Value		- "		-		-		-		- 18				127	74	97	554	524	Lay	Lay	Livy Li	y Lay	Lity	18.7	- "		Lisy	4	- 4	- 4		Lay 1	Ley D		-1
Lead (dissolved)	Pan	0.1	to man going operations	+0.1	40.1	-0.1	40.1	10.1	<0.1	40.1	40.1	49.1	<0.1	40.1	40.1	40.1	-0.1	-0.1	<0.1	40.1	40.1	Dov	Dov	Doy D	Dov	Dox	40.1	0.3	0.1	Dev	-0.1	-01	0.1	40.1	Prov. C	Dry D	ny 0,6	н.
Mangarese (total)	Par	0.5	No Water Quality Chiertiye Value	-		-	-										-	-					100		100		1.020			-	-				-		-	н
Marganese (dissolved)	Apr	0.5	1,200	1.1	3.5	1.2	2.9	0.5	0.7	1.1	1.5	109	2.6	0.9	2.9	1.4	1.0	3.5	6.7	102	14.4	Dry	Dry	Dry D	y Dry	Dry	18.0	1.3	1.4	Dry	-0.5	7.9	12.8	+0.5	Dry E	Dry D	ry 36.0	н
Nickel (total)	April 1	0.5	No Water Quality Objective Value			-	- 17					-		- 1			-	-	-			-	1 1		-	-	110			-		-			-			н
Nickel (dissolved)	PA/L	0.5	8	40.5	40.5	49.5	40.5	49.5	+0.5	49.5	40.5	3.7	49.5	40.5	403	40.5	40.5	49.5	49.5	0.9	0.8	Dry	Dry	Dry D	y Dry	Dry	0.9	2.0	0.9	Dry	-0.5	1.0	1.9	1.8	Dry D	Dry D	ry 1.3	н
Silver (total)	Pan	0.01	No Wister Quality Objective Value		-							-							-				1		-		0.04			-	-	-			-			П.
Silver (dissolved)	Apr.	0.01	6.22	<0.00	40.01	+0.01	40.01	40.01	<0.01	<0.01	40.01	+0.01	+0.01	40.01	40.01	<0.01	40.01	<0.01	40.01	40.01	<0.01	Dry	Dry	Dry D	y Dry	Dry	40.01	<0.01	<0.01	Dry	0.01	40.01	40.01	+0.01	Dry D	Dry D	ry <0.01	п
Zine (total)	ned.	1	No Water Quality Disjective Value																						-	-	116									_		-

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

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

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

EPL 41	EPL 43	EPL 44	EPL 45	EPL 47	EPL 48	EPL 49	EPL 50		
25/05/2025					i		26/5/20252		
-	0.0000	#REF!	#REF!	#REF!	#REF!	#REF!	-		
-	-	-	-	-	-		-		
8.01	-	-	-	-	-		7.58		
16	-	-	-	-		-	46.18		
147	-	-	-	-			-		
14.59	-	-	-	-	-	-	7.3		
68.7	-	-	-	-	-		-		
18.9		-	-		-		0.39		
<5	-	-	-	-		-	<5		
-	-	-	-	-	-		<1		
<10	-	-	-	-	-	-	50		
50			-	-	-	-	<10		
<100	-	-	-	-	-		<100		
<100	-	-	-	-		-	<100		
<10	-	-	-	-	-	-	<10		
10	-	-	-	-	-		20		
<4	-	-	-	-	-		<4		
<1.0	-	-	-	-	-		<1.0		
<5	-		-	-	-		<5		
<0.2			-	-	-		<0.2		
<0.2	-		-	-	-		1.5		
<0.5			-	-	-		1.3		
<2			-	-	-		<2		
<0.1	-		-		-		<0.1		
<0.5			-	-	-	-	<0.5		
<0.5			-	-	-	-	<0.5		
< 0.01	-		-	-	-		<0.01		
<1	-	-	-	-	-		2		
					•				
<1		-	-	-	-	-	<1		
5	-	-	-	-	-	-	3		

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

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

- * Water Quality Objective values Treated Water reference the predicted values for physical and chemical stressors from the treatment plant as presented in the Main Works EIS.
- Samples not required
- ^ 90 Percentile concentration limit/100 Percentile limit
- Inflows to STP and CWTP do not directly correspond to outflow at RO as much of the water is reused on site

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

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

EPL 43 *	EPL 50 ^
Discharg	e volume
(Mega	alitres)
0.85	-
0.93	-
-	-
1.07	-
0.68	-
0.70	-
-	-
0.87	-
	-
1.60	-
-	0.14
0.86	0.59
0.32	0.23
	0.41
	0.72
٠	0.50
	-
0.51	-
0.59	0.74
	0.67
0.83	0.89
	0.45
1.04	0.36
0.40	-
-	-
0.54	-
-	-
-	-

EPL 44	EPL 45	EPL 47	EPL 48	EPL 49
	Discharg	e volume (Me	egalitres)	
0.37	0.05	0.22	0.07	0.67
0.30	0.05	0.22	0.09	0.65
0.24	0.05	0.22	0.08	0.45
0.45	0.05	0.22	0.07	0.80
0.18	0.03	0.18	0.10	1.00
0.60	0.05	0.26	0.07	0.31
0.21	0.05	0.17	0.08	0.37
0.26	0.04	0.25	0.55	0.36
0.13	0.05	0.25	0.01	0.31
0.44	0.08	0.16	0.10	0.50
0.43	0.05	0.21	0.06	0.45
0.39	0.05	0.21	0.08	0.67
0.11	0.04	0.23	0.01	0.67
0.74	0.04	0.22	0.01	0.64
0.29	0.05	0.26	0.21	0.55
0.50	0.05	0.16	0.07	0.56
0.23	0.04	0.24	0.07	0.64
0.32	0.06	0.23	0.52	0.68
0.43	0.08	0.27	0.62	0.34
0.29	0.07	0.20	0.08	0.20
0.30	0.03	0.09	0.06	0.05
0.24	0.03	0.09	0.06	0.85
0.57	0.21	0.52	0.02	0.80
0.44	0.07	0.27	0.01	0.71
0.35	0.05	0.22	0.26	1.40
0.46	0.06	0.26	0.08	1.37
0.32	0.04	0.21	0.10	0.79
0.25	0.02	0.12	0.13	0.52
0.25	0.02	0.12	0.06	0.21
0.28	0.12	0.37	0.07	0.61
0.36	0.05	0.20	0.13	0.90

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

Water not discharged on this day

The maximum flow rate capacity for Lobs Hole STP/PWTP during the reporting month was 6.02 L/s

The maximum flow rate capacity for Tantangara STP/PWTP during the reporting month was 16.20 L/s

Water not discharged on this day

APPENDIX C - MANN-KENDALL RESULTS

	TSS	Hardness as Hardness as	Ammonia as N	Nitrite + Nitrate a	s Kieldahl Nitroger	n Nitrogen (Total)	Reactive Phosphorus	Reactive Phosphorus	Chlorine - Total	Biochemical Cvanide	: Total Ni	litrate (as N)	Nitrate (as NO3	-) Nitrite (as N)	Nitrite (as NO2-) Oil and Grease	: Aluminium	Aluminium	Arsenic	Arsenic (Filtered)	Calcium C	hromium
		Ca CO3 (Filtered) Ca CO3		N (NOx)	Total	, 	(Filtered)	Phosphorus (Total)	Residual	Oxygen Demand				y mg/L			ug/L	(Filtered)		-		hexavalent)
LOB EPL41	NT, S=-27, N=23	NT, S=-26, N=23	TDn, S=-135, N=2	13 TDn, S=-92, N=23	TDn, S=-136, N=23	3 TDn, S=-126, N=23	TDn, S=-59, N=22	NT, S=-53, N=23	NT, S=-9, N=22	NT, S=23, N=22 NT, S=-9	9, N=23 TD	Dn, S=-89, N=23	TDn, S=-47, N=14	4 TDn, S=-92, N=23	TDn, S=-32, N=1	NT, S=0, N=23	NT, S=-33, N=17		NT, S=-13, N=17	NT, S=-19, N=23		IT, S=-5, N=17
LOB EPL91	TDn, S=-143, N=2	6 NT, S=10, N=26	TUp, S=102, N=26		NT, S=14, N=26		NT, S=-55, N=25	NT, S=-54, N=26		NT, S=0,			5 TDn, S=-18, N=10		NT, S=0, N=10	NT, S=0, N=26	TDn, S=-48, N=17 NT S=-4 N=9	NT, S=0, N=26	NT, S=12, N=17	TUp, S=143, N=26		IT, S=-14, N=17
LOB EPL96	NT, S=13, N=11 NT S=-19 N=19	TDn, S=-27, N=11 NT S=-6 N=19	TUp, S=29, N=11 TUp S=76 N=19		NT, S=-20, N=11 NT S=-33 N=19	TDn, S=-25, N=11 NT S=-29 N=19	NT, S=-15, N=11 TDn S=-84 N=18	NT, S=14, N=11 NT S=17 N=19	NT, S=-1, N=5 NT S=-2 N=16	NT, S=0, NT S=-1		Dn, S=-25, N=11 Dn S=-55 N=19	NT S=-S N=10	NT, S=18, N=11 TUD S=50 N=19	NT S=-10 N=10		NT, S=-4, N=9 TUD S=57 N=18	NT, S=0, N=11 NT S=13 N=19	NT, S=-6, N=9 NT S=-7 N=18	NT, S=-16, N=11 NT S=-14 N=19		IT, S=-1, N=9 IT S=-29 N=18
LOB EPL95	TDn, S=-124, N=2	6 TUp, S=222, N=26	NT, S=-17, N=26	TUp, S=206, N=26	NT, S=53, N=26	TUp, S=183, N=26	TDn, S=-99, N=25	TDn, S=-82, N=26	6 NT, S=-3, N=10	NT, S=0,	N=26 TU	Up, S=207, N=26	NT, S=1, N=10	NT, S=-23, N=26	NT, S=0, N=10	NT, S=0, N=26	NT, S=4, N=17	NT, S=-11, N=26	NT, S=-5, N=17	NT, S=-36, N=26	N	IT, S=-14, N=17
LOB EPL58		4 NT, S=67, N=24	NT, S=7, N=24	NT, S=-24, N=24	NT, S=48, N=24	NT, S=48, N=24	TDn, S=-110, N=23	TDn, S=-78, N=24	NT, S=-5, N=7	NT, S=0,		IT, S=-9, N=24		NT, S=43, N=24	NT, S=-6, N=8	NT, S=0, N=24	TDn, S=-144, N=2	4 NT, S=-9, N=24	TDn, S=-167, N=2	NT, S=7, N=24		IT, S=-21, N=24
LOB EPLS6	NT, S=-71, N=26 NT S=-6 N=24	NT, S=66, N=26 NT S=52 N=24	TUp, S=75, N=26 NT S=44 N=24	TUp, S=201, N=26 TUp S=111 N=24	NT, S=35, N=26	NT, S=66, N=26 TUD S=172 N=24	TDn, S=-146, N=25 NT S=-52 N=23	NT, S=12, N=26 NT S=-5 N=24	NT, S=2, N=9 NT S=1 N=8	NT, S=-2 NT S=-1		Up, S=185, N=26 Up S=108 N=24	NT, S=19, N=10 NT, S=10, N=9	NT, S=29, N=26 NT S=48 N=24	NT, S=-3, N=10 NT S=-5 N=8		NT, S=-52, N=25 NT S=-34 N=23	NT, S=0, N=26 NT S=-18 N=24	NT, S=-2, N=25 NT S=34 N=23	NT, S=0, N=26 TUD S=103 N=24		IT, S=0, N=25 IT S=0 N=23
LOB EPL92	TDn, S=-109, N=2	6 TDn, S=-112, N=26	NT, S=43, N=26	NT, S=-51, N=26	NT, S=31, N=26	NT, S=37, N=26	TDn, S=-86, N=25	NT, S=-56, N=26		NT, S=0,		IT, S=-38, N=26		TDn, S=-44, N=26	NT, S=0, N=10	NT, S=0, N=26	TDn, S=-74, N=17	NT, S=0, N=26	TDn, S=-82, N=17	7 TDn, S=-106, N=26		IT, S=-14, N=17
LOB EPL93		NT, S=28, N=26	NT, S=60, N=26	NT, S=51, N=26	NT, S=38, N=26	NT, S=38, N=26	TDn, S=-146, N=25	NT, S=71, N=26	NT, S=1, N=10	NT, S=0,			NT, S=7, N=10	NT, S=-3, N=26	NT, S=0, N=10	NT, S=0, N=26	TUp, S=48, N=17	NT, S=0, N=26	NT, S=8, N=17	TDn, S=-198, N=26	N	IT, S=0, N=17
LOB EPL94	NT, S=-42, N=26	NT, S=56, N=26 6 NT, S=52, N=26	TUp, S=99, N=26 TUp, S=88, N=26	TDn, S=-77, N=26	NT, S=46, N=26	NT, S=46, N=26 NT, S=-52, N=26	TDn, S=-104, N=25	NT, S=-10, N=26 NT S=-44 N=26		NT, S=0, NT, S=0.			NT, S=0, N=10 NT, S=8, N=10	NT, S=0, N=26	NT, S=0, N=10	NT, S=0, N=26 NT, S=0, N=26	NT, S=-27, N=17	NT, S=0, N=26 NT, S=0, N=26	NT, S=3, N=17 NT, S=-30, N=17	NT, S=18, N=26		IT, S=12, N=17 IT. S=0. N=17
LOB EPL97	NT, S=-55, N=23	TUp. S=86. N=23	NT, S=28, N=26	TUD, S=-87, N=26 TUD, S=79, N=23	NT. S=3, N=23	NT, S=-52, N=26 NT, S=27, N=23	TDn, S=-97, N=25 TDn, S=-118, N=22	NT, S=-44, N=26 NT, S=-36, N=23	NT, S=7, N=10 NT, S=13, N=8	NT, S=0,		Un, S=-79, N=26 Up. S=87. N=23	TUp. S=25. N=10	NT. S=-146, N=2	NT, S=1, N=10 NT, S=0, N=10	NT, S=0, N=26 NT, S=0, N=23	NT. S=-17. N=17	TDn. S=-71. N=23	NT, S=-27, N=17	NT, S=22, N=23		IT, S=0, N=17 IT, S=12, N=17
LOB EPL5	NT, S=-6, N=7	NT, S=7, N=7	NT, S=5, N=7	TDn, S=-12, N=7	NT, S=-4, N=7	NT, S=-4, N=7	TDn, S=-11, N=7	NT, S=-1, N=7	NT, S=-5, N=6	NT, S=0,		IT, S=-10, N=7	NT, S=0, N=3	NT, S=0, N=7	NT, S=0, N=3	NT, S=0, N=7		NT, S=-7, N=7		TUp, S=14, N=7		
LOB EPL12	NT, S=-5, N=6 TUp, S=83, N=27	TUp, S=11, N=6 NT S=-30 N=27	NT, S=9, N=6	NT, S=-8, N=6 NT, S=-13, N=27	NT, S=-9, N=6 NT, S=57, N=27	NT, S=-9, N=6 NT, S=1, N=27	NT, S=-8, N=6	NT, S=-6, N=6	NT, S=-2, N=5	NT, S=1, NT. S=-2		IT, S=-8, N=6 IT. S=5, N=27	NT. S=-1. N=11	NT, S=0, N=6	7 NT S=6 N=11	NT, S=0, N=6 NT S=0 N=27	NT. S=-3. N=15	NT, S=-5, N=6	NT. S=17. N=15	NT, S=9, N=6 TUD S=84 N=27		IT. S=-10. N=15
LOB EPL84	TUp, S=83, N=27 TUp, S=57, N=19	TDn S=-49 N=19	TUD, S=-84, N=27	TDn S=-67 N=19	NT, S=57, N=27	TDn S=-53 N=19	TDn S=-93, N=26 TDn S=-72 N=19	TUD, S=91, N=27	NT. S=-12. N=18	N1, S=-2 NT. S=-1		Dn S=:65 N=19	NT, S=-1, N=11 NT, S=7, N=7	TDn, S=-160, N=2	NT, S=6, N=11 NT, S=2, N=7		NT, S=-3, N=15 NT, S=-4, N=9	NT. S=-8, N=19	NT, S=17, N=15 NT, S=15, N=9	TUD, S=84, N=27 TUD S=85 N=19		IT, S=-10, N=15 IT, S=16, N=9
LOB EPL81	TUp, S=79, N=23	TUp, S=95, N=23	NT, S=44, N=23	TDn, S=-79, N=23	TUp, S=70, N=23	TUp, S=70, N=23	TDn, S=-59, N=22	NT, S=-1, N=23	NT, S=1, N=13	NT, S=-3		IT, S=-54, N=23	NT, S=0, N=9	NT, S=-8, N=23	NT, S=0, N=9	NT, S=0, N=23	NT, S=13, N=15	NT, S=0, N=23	NT, S=7, N=15	TUp, S=113, N=23		IT, S=0, N=15
LOB EPL6	NT, S=-5, N=6	TUp, S=10, N=6	NT, S=7, N=6	NT, S=-6, N=6	NT, S=1, N=6		NT, S=-6, N=6	NT, S=4, N=6	NT, S=-6, N=5	NT, S=0,		IT, S=-6, N=6		NT, S=0, N=6		NT, S=0, N=6		NT, S=-5, N=6		NT, S=-5, N=6		
LOB EPL88 LOB EPL14	NT, S=-39, N=25 NT, S=-5, N=6	TUp, S=132, N=25 TUp, S=13, N=6	NT, S=8, N=25 NT, S=5, N=6	NT, S=-57, N=25 NT, S=-6, N=6	TDn, S=-80, N=25 NT. S=-3, N=6	NT, S=-61, N=25 NT, S=-3, N=6	NT, S=-44, N=24	NT, S=10, N=25 NT, S=-8, N=6	NT, S=-2, N=14 NT, S=-2, N=5	NT, S=-2 NT, S=0.		IT, S=-57, N=25 IT. S=-6. N=6	NT, S=3, N=9	NT, S=0, N=25 NT, S=0, N=6	NT, S=0, N=9	NT, S=0, N=25 NT, S=0, N=6	NT, S=8, N=15	NT, S=20, N=25 NT, S=-5, N=6	NT, S=-18, N=15 NT, S=5, N=4	TUp, S=81, N=25 NT, S=8, N=6	N N	IT, S=6, N=15 IT, S=0, N=4
LOB EPL83	TDn, S=-185, N=2	3 Tup, S=69, N=22	TUp, S=99, N=23	NT, S=-40, N=23	NT, S=-48, N=23		NT, S=-30, N=21	TDn, S=-136, N=0	23 NT, S=-20, N=14	NT, S=-1			NT, S=0, N=9	NT, S=-27, N=23	NT, S=4, N=9	NT, S=0, N=23	NT, S=-10, N=12	NT, S=-17, N=22	NT, S=4, N=12	TUp, S=68, N=23	T	Dn, S=-21, N=12
LOB EPL85	NT, S=-16, N=17	NT, S=15, N=17	NT, S=-3, N=17	TUp, S=56, N=17	NT, S=-3, N=17		NT, S=-10, N=17	NT, S=16, N=17	NT, S=-10, N=15	NT, S=-1			NT, S=9, N=6	NT, S=-15, N=17	NT, S=-3, N=6		NT, S=-2, N=8	TDn, S=-53, N=17	NT, S=14, N=8	TUp, S=54, N=17	N	IT, S=-13, N=8
LOB EPLS	NT, S=-5, N=6 NT, S=-5, N=6	TUp, S=14, N=6 TUp, S=11, N=6	NT, S=2, N=6 NT, S=4, N=6	TDn, S=-11, N=6 NT. S=-5. N=6	NT, S=-5, N=6 NT, S=-3, N=6	NT, S=-5, N=6 NT, S=-1, N=6	TDn, S=-9, N=6 NT. S=-7, N=6	NT, S=7, N=6 NT, S=-1, N=6	NT, S=-2, N=5	NT, S=0, NT, S=0.		IT, S=-8, N=6 IT. S=-5. N=6		NT, S=-1, N=6 NT, S=0, N=6		NT, S=0, N=6 NT, S=0, N=6	NT. S=-2. N=4	NT, S=-5, N=6 NT, S=-5, N=6		NT, S=8, N=6 NT, S=9, N=6		
LOB EPLS	N1, S=-5, N=6 NT. S=-5. N=6	TUp, S=11, N=6 TUp, S=14, N=6	NT, S=4, N=6	NT, S=-5, N=6	NT, S=-3, N=6 NT, S=-5, N=6	NT. S=-1, N=6	TDn S=-9 N=6	NT, S=-1, N=6 NT, S=3, N=6	NT. S=-2. N=5	N1, S=0, NT, S=0.		II, S=-5, N=6 IT. S=-2. N=6		NT, S=0, N=6 NT, S=-5, N=6		NT, S=0, N=6	N1, S=-2, N=4	NT, S=-5, N=6	NT, S=5, N=4	NI, S=9, N=6 TUD S=10 N=6		IT, S=0, N=4
LOB EPL16	NT, S=-6, N=7	TUp, S=11, N=6	NT, S=4, N=7	TDn, S=-12, N=7	NT, S=-4, N=7	NT, S=-4, N=7	NT, S=-3, N=6	NT, S=-5, N=7	NT, S=-2, N=5	NT, S=0,	N=7 TD	Dn, S=-11, N=7		NT, S=0, N=7		NT, S=0, N=7	TDn, S=-6, N=4	NT, S=-6, N=7	NT, S=5, N=4	NT, S=6, N=7		IT, S=0, N=5
LOB EPL107	NT, S=1, N=6	NT, S=-5, N=6	NT, S=5, N=6	NT, S=-1, N=6	NT, S=-1, N=6		NT, S=-7, N=6	NT, S=1, N=6	NT, S=-4, N=5	NT, S=0,		IT, S=-1, N=6		NT, S=0, N=6		NT, S=0, N=6	NT, S=-4, N=4	TDn, S=-9, N=6	NT, S=-1, N=4	NT, S=5, N=6		IT, S=0, N=4
LOB EPL108 LOB EPL109	NT, S=-5, N=6 NT, S=-7, N=6	NT, S=-7, N=6 NT. S=-3. N=6	NT, S=7, N=6 NT, S=6, N=6	NT, S=-2, N=6 NT, S=-5, N=6	NT, S=-5, N=6 NT, S=-5, N=6	NT, S=-5, N=6 NT, S=-5, N=6	NT, S=-8, N=6 NT, S=-8, N=6	NT, S=1, N=6 NT, S=-5, N=6	NT, S=4, N=5 NT, S=0, N=5	NT, S=0, NT, S=0.		IT, S=-2, N=6 IT, S=-5, N=6		NT, S=-3, N=6 NT, S=0, N=6		NT, S=0, N=6 NT, S=0, N=6	NT, S=-2, N=4 NT, S=-2, N=4	NT, S=-5, N=6 NT, S=-5, N=6	NT, S=-1, N=4 NT, S=-1, N=4	NT, S=4, N=6 NT, S=2, N=6		IT, S=0, N=4 IT, S=0, N=4
LOB EPL10	NT, S=1, N=7	NT, S=-1, N=7	NT, S=5, N=7	TDn, S=-13, N=7	NT, S=-11, N=7	TDn, S=-14, N=7	TDn, S=-11, N=7	NT, S=-1, N=7	NT, S=-3, N=6	NT, S=9, N=7 NT, S=0,		Dn, S=-13, N=7	NT, S=-2, N=3	NT, S=-6, N=7	NT, S=0, N=3	NT, S=0, N=7	NT, S=-4, N=4	NT, S=-6, N=7	NT, S=1, N=4	NT, S=-5, N=7		IT, S=0, N=4
LOB EPL11	NT, S=1, N=7	NT, S=-6, N=7	NT, S=1, N=7	NT, S=-5, N=7	NT, S=-5, N=7	NT, S=-7, N=7	NT, S=-6, N=7	NT, S=5, N=7	NT, S=-1, N=6	TUp, S=14, N=7 NT, S=0,		IT, S=-5, N=7	NT, S=0, N=3	NT, S=-6, N=7	NT, S=0, N=3		NT, S=-2, N=4	NT, S=-6, N=7	NT, S=-1, N=4	NT, S=6, N=7		IT, S=0, N=4
LOB EPL106 TAN EPL30	NT, S=78, N=30 NT, S=-5, N=6	TUp, S=319, N=30 NT. S=-8. N=6	TUp, S=133, N=30 NT, S=5, N=6	TUp, S=267, N=30 NT. S=-2, N=6	TUp, S=115, N=30 NT, S=-5, N=6	TUp, S=256, N=30 NT, S=-5, N=6	TDn, S=-189, N=30 NT, S=-8, N=6	NT, S=73, N=30 NT, S=-6, N=6	NT, S=-69, N=27 NT, S=-5, N=6	NT, S=-1 NT, S=0.		Up, S=262, N=30 IT. S=-2. N=6	TUp, S=18, N=8	NT, S=78, N=30 NT, S=0, N=6	NT, S=-1, N=8	NT, S=0, N=30 NT, S=0, N=6	NT, S=2, N=5	NT, S=87, N=30	NT, S=0, N=5	TUp, S=96, N=30 NT, S=0, N=6	N	IT, S=-3, N=5
TAN EPLSO	NT. S=-3, N=6	NT. S=-2. N=6	NT. S=0. N=6	NT. S=-5. N=6	TDn. S=-11. N=6		NT. S=-8. N=6	NT. S=-7. N=6	NT. S=0. N=6	NT. S=0.		IT. S=-5. N=6		NT. S=-5. N=6		NT. S=0. N=6		TDn, S=-11, N=6		NT. S=0, N=6		
MAR EPL26	NT, S=0, N=6	NT, S=5, N=6	NT, S=1, N=6	NT, S=-9, N=6	NT, S=-5, N=6		NT, S=-7, N=6	NT, S=-6, N=6	NT, S=-2, N=5	NT, S=1,		IT, S=-5, N=6		NT, S=-5, N=6		NT, S=0, N=6	NT, S=2, N=4	NT, S=-7, N=6	NT, S=0, N=4	NT, S=0, N=6		IT, S=0, N=4
MAR EPL27 MAR EPL73	NT, S=11, N=30	NT, S=1, N=24 TDn, S=-10, N=6	NT, S=14, N=30	NT, S=-79, N=30 NT S=-3 N=9	NT, S=30, N=30	NT, S=29, N=30 NT S=1 N=9	TDn, S=-122, N=24	NT, S=0, N=6 NT, S=62, N=30	NT, S=-8, N=19	NT, S=-9		IT, S=-44, N=30	NT, S=-4, N=7	TDn, S=-47, N=30	NT, S=0, N=7	NT, S=0, N=30	TUp, S=56, N=15 NT S=1 N=9	NT, S=18, N=30	NT, S=-12, N=17	NT, S=5, N=30		IT, S=-15, N=20
MAR EPL73 MAR EPL71	NT, S=6, N=9 NT S=0 N=4	NT, S=0, N=9 NT S=2 N=4	NT, S=4, N=9 NT S=3 N=4	NT, S=-3, N=9 NT S=4 N=4	NT, S=1, N=9 NT S=3 N=4		NT, S=-3, N=9 NT S=4 N=4	NT, S=2, N=9 NT S=2 N=4	NT S=-3 N=4	NT, S=0, NT S=0		IT, S=-2, N=9 IT S=4 N=4	NT, S=-3, N=3	NT, S=0, N=9 NT S=3 N=4	NT, S=0, N=3	NT, S=0, N=9 NT S=0 N=4	NT, S=1, N=9 NT S=0 N=4	NT, S=0, N=9 NT S=0 N=4	NT, S=9, N=9 NT S=0 N=4	NT, S=0, N=9 NT S=-1 N=4		IT, S=0, N=9 IT S=0 N=4
MAR EPL102	NT, S=-4, N=12	NT, S=3, N=12	NT, S=16, N=12	NT, S=-7, N=12	NT, S=9, N=12		NT, S=8, N=12	NT, S=1, N=12	NT, S=1, N=3	NT, S=0,		IT, S=-7, N=12	NT, S=3, N=4	NT, S=0, N=12	NT, S=0, N=4	NT, S=0, N=12	NT, S=-8, N=12	NT, S=0, N=12	NT, S=-2, N=12	NT, S=2, N=12		IT, S=0, N=12
MAR EPL100	NT, S=-3, N=13	NT, S=6, N=13	NT, S=8, N=13	NT, S=2, N=13	NT, S=21, N=13	NT, S=2, N=13	NT, S=-18, N=13	NT, S=7, N=13	NT, S=10, N=10	NT, S=-1		IT, S=2, N=13		NT, S=-14, N=13		NT, S=0, N=13	NT, S=-6, N=8	NT, S=-26, N=13	NT, S=-4, N=8	TDn, S=-46, N=13		IT, S=0, N=8
MAR EPL99 MAR EPL72	NT, S=-6, N=21 NT S=22 N=22	NT, S=-22, N=21 NT S=-9 N=22	NT, S=26, N=21 NT, S=-13, N=22	NT, S=-22, N=21 NT S=13 N=22	NT, S=17, N=21 NT S=-37 N=22	NT, S=-2, N=21 NT S=-37 N=22	TDn, S=-96, N=21	NT, S=9, N=21 NT S=28 N=22	TDn, S=-37, N=10 NT S=-3 N=8	TUp, S=1			NT, S=-1, N=6 NT S=1 N=6	NT, S=4, N=21 NT S=0 N=22	NT, S=-7, N=6 NT S=0 N=6		NT, S=20, N=12 NT S=16, N=21	NT, S=0, N=21 NT S=7 N=22	TDn, S=-30, N=12 NT S=-6 N=21	NT, S=-48, N=21 NT S=-13 N=22		IT, S=19, N=12 IT S=0 N=21
LOB EPL87	TDn. S=-146. N=2	4 Tup. S=149. N=24	NT. S=-61. N=24	TUp. S=104. N=24	TDn. S=-74, N=24		NT. S=-60. N=23	TDn. S=-162. N=2	24 NT. S=-11. N=16	NT. S=-1			NT. S=10. N=8	TUp, S=76, N=24	NT. S=8. N=8		NT. S=-11. N=14	NT. S=0. N=24	NT. S=-13. N=14			IT. S=-16. N=14
LOB EPL82	TDn, S=-96, N=26	NT, S=17, N=26	NT, S=65, N=26	TDn, S=-101, N=26	NT, S=-8, N=26	NT, S=-18, N=26	TDn, S=-114, N=25	NT, S=-26, N=26	TUp, S=43, N=16	NT, S=-2	21, N=26 TD	Dn, S=-85, N=26	NT, S=-5, N=10	NT, S=-25, N=26	NT, S=0, N=10	NT, S=0, N=26	TDn, S=-43, N=15	NT, S=0, N=26	NT, S=-26, N=15	TUp, S=130, N=26	N	IT, S=-12, N=15
LOB EPLSO	NT, S=12, N=24 NT S=-39 N=25	TUp, S=81, N=24	TUp, S=78, N=24 NT S=-42 N=25	TDn, S=-72, N=24	NT, S=40, N=24 NT S=-54 N=25	NT, S=40, N=24	TDn, S=-125, N=23	NT, S=33, N=24 NT S=-22 N=25	NT, S=9, N=14 NT S=-11 N=15	NT, S=-1 NT S=-2			NT, S=-1, N=8	NT, S=-19, N=24	NT, S=0, N=8		NT, S=11, N=15	NT, S=0, N=24 NT S=0 N=25	TUp, S=35, N=15	TDn, S=-93, N=24 NT S=-3 N=25		IT, S=0, N=15
TAN EPLS9	NT, S=-39, N=25 NT, S=-5, N=6	TDn, S=-138, N=25 NT. S=4, N=6	NT, S=-42, N=25 NT, S=0, N=6	TDn, S=-98, N=25 NT. S=-2. N=6	NT, S=-54, N=25 NT. S=-5. N=6	TDn, S=-86, N=25 NT. S=-5. N=6	TDn, S=-123, N=24 NT. S=-3. N=6	NT, S=-22, N=25 TDn S=-10 N=6	NT, S=-11, N=15 NT S=-4 N=6	NT, S=-2 NT, S=0.		Dn, S=-98, N=25 IT, S=-2, N=6	NT, S=-8, N=9	TDn, S=-68, N=25 NT. S=-3. N=6	NT, S=0, N=9	NT, S=0, N=25 NT, S=0, N=6	NT, S=-3, N=14	NT, S=0, N=25 TDn S=-13 N=6	NT, S=-4, N=14	NT, S=-3, N=25 NT. S=-7. N=6	N	IT, S=0, N=14
TAN EPL35	NT, S=-5, N=6	NT, S=4, N=6	NT, S=1, N=6	TDn, S=-9, N=6	NT, S=-9, N=6	NT, S=-9, N=6	NT, S=-3, N=6	NT, S=-9, N=6	NT, S=-7, N=6	NT, S=0,	N=6 TD	Dn, S=-9, N=6		NT, S=-5, N=6		NT, S=0, N=6		TDn, S=-12, N=6		NT, S=-7, N=6		
TAN EPL33	NT, S=4, N=6	NT, S=5, N=6	NT, S=5, N=6	NT, S=-2, N=6	NT, S=8, N=6		NT, S=-5, N=6	NT, S=-3, N=6	NT, S=2, N=6	NT, S=0,		IT, S=-2, N=6		NT, S=-5, N=6		NT, S=0, N=6		NT, S=-5, N=6		TUp, S=11, N=6		
TAN EPL39 TAN EPL38	NT, S=3, N=8 NT, S=13, N=9	NT, S=2, N=8	NT, S=-10, N=8 NT, S=-7, N=9	NT, S=9, N=8 NT, S=-8, N=9	TDn, S=-21, N=8 TUp. S=18, N=9	NT, S=-8, N=8	TDn, S=-13, N=8 NT. S=-12, N=9	NT, S=2, N=8 NT, S=7, N=9	NT, S=-1, N=8 NT, S=-4, N=8	NT, S=0, NT, S=0.		IT, S=9, N=8 IT. S=-8, N=9		NT, S=-7, N=8 NT, S=0, N=9		NT, S=0, N=8 NT, S=0, N=9	NT, S=-9, N=7 NT, S=-2, N=5	NT, S=-9, N=8	NT, S=-10, N=7 NT, S=4, N=5	NT, S=-3, N=8		IT, S=0, N=7 IT. S=0. N=5
LOB EPLSS	NT, S=0, N=3	NT, S=1, N=3	NT, S=2, N=3	NT, S=1, N=3	NT, S=-1, N=3	NT, S=1, N=3	NT, S=-3, N=3	NT, S=1, N=3	NT, S=0, N=3	NT, S=0,		IT, S=1, N=3		NT, S=3, N=3		NT, S=0, N=3	NT, S=-1, N=3	NT, S=0, N=3	NT, S=3, N=3	NT, S=3, N=3		IT, S=0, N=3
TAN EPL68	TDn, S=-74, N=24		NT, S=7, N=24	TDn, S=-105, N=24	NT, S=-15, N=24	TDn, S=-85, N=24	TDn, S=-55, N=24	NT, S=-51, N=24	NT, S=-11, N=14	NT, S=0,		Dn, S=-107, N=24	NT, S=10, N=8	NT, S=15, N=24	NT, S=0, N=8	NT, S=0, N=24	NT, S=-53, N=23	NT, S=-13, N=24	NT, S=-26, N=23	NT, S=0, N=24	N	IT, S=0, N=23
TAN EPL69 TAN EPL105	NT, S=44, N=25 NT, S=46, N=21	TUp, S=122, N=25 NT, S=4, N=5 TUp, S=97, N=21 NT, S=1, N=4	NT, S=58, N=25 NT, S=18, N=21	NT, S=-6, N=25 NT, S=44, N=21	TDn, S=-73, N=25 NT. S=28, N=21	NT, S=-40, N=25 NT, S=51, N=21	TDn, S=-104, N=25	NT, S=-18, N=25 NT, S=-7, N=21	NT, S=16, N=14 NT, S=7, N=10	NT, S=0, NT, S=0.		IT, S=-3, N=25 IT. S=45. N=21	NT, S=-5, N=9 NT, S=-2, N=9	NT, S=-24, N=25 NT, S=0, N=21	NT, S=0, N=9 NT, S=0, N=9	NT, S=0, N=25 NT, S=0, N=21	NT, S=32, N=24 NT, S=5, N=18	TDn, S=-158, N=2! NT, S=7, N=21	NT, S=40, N=24 NT, S=10, N=18	NT, S=0, N=25 NT, S=0, N=21		IT, S=0, N=23 IT. S=15. N=18
TAN EPLIUS	NT, S=46, N=21 NT, S=1, N=26		NT, S=18, N=21 NT, S=-2, N=26	N1, S=44, N=21 TUD S=90 N=26	NT, S=28, N=21 NT, S=-31, N=26		NT. S=-95, N=21	NT, S=-7, N=21 NT, S=-1, N=26	NT. S=11. N=14	N1, S=0, NT. S=0.		II, S=45, N=21 IIn S=81 N=26	N1, S=-2, N=9 TUD S=21 N=9	NT, S=0, N=21 NT, S=0, N=26	NT, S=0, N=9	NT, S=0, N=21 NT, S=0, N=26	NT, S=5, N=18 NT, S=-8, N=25	NT, S=7, N=21 NT, S=0, N=26	NT, S=10, N=18 NT, S=-5, N=25	NT, S=0, N=21 NT, S=0, N=26		IT, S=15, N=18 IT, S=0, N=25
TAN EPL103	NT, S=-34, N=25		NT, S=25, N=25	NT, S=11, N=25	NT, S=45, N=25		NT, S=-31, N=25	NT, S=28, N=25	NT, S=0, N=13	NT, S=0,			NT, S=11, N=9	NT, S=2, N=25	NT, S=0, N=9		NT, S=-5, N=20	NT, S=0, N=25	NT, S=0, N=20	NT, S=0, N=25		IT, S=0, N=20
TAN EPL104	TDn, S=-93, N=26 NT, S=24, N=22	NT, S=37, N=26 NT, S=-2, N=5	NT, S=24, N=26	NT, S=-67, N=26	NT, S=-2, N=26	NT, S=-2, N=26	TDn, S=-136, N=26	NT, S=-5, N=26	NT, S=-11, N=15	NT, S=0,		IT, S=-67, N=26	NT, S=8, N=9	NT, S=-25, N=26	NT, S=0, N=9	NT, S=0, N=26	TDn, S=-80, N=21	NT, S=-50, N=26	TDn, S=-49, N=21	NT, S=0, N=26		IT, S=0, N=20
LOB EPL24 TAN EPL50	NT, S=24, N=22 NT. S=0. N=6	TDn, S=-75, N=22 NT. S=0. N=6 NT. S=0. N=4	NT, S=32, N=22 NT, S=-3, N=5	TDn, S=-100, N=22 NT. S=-7. N=5	NT, S=55, N=22	NT, S=-9, N=22 TDn S=-7 N=5	TDn, S=-102, N=22 NT. S=0. N=5	NT, S=-24, N=22 NT, S=-1, N=5	TUp, S=65, N=16 NT. S=0. N=5	NT, S=0, NT, S=5, N=6 NT, S=0.		Dn, S=-97, N=22 IT. S=-7. N=5	NT, S=-3, N=7	TDn, S=-64, N=22 NT. S=-4. N=5	10p, S=14, N=7	NT, S=0, N=22 NT, S=0, N=6	NT, S=9, N=7 NT, S=5, N=6	NT, S=25, N=22 NT, S=0, N=6	NT, S=10, N=7 NT, S=0, N=6	NT, S=-17, N=22 NT, S=0, N=6		IT, S=4, N=7 IT. S=0. N=6
LOB EPL110	NT, S=1, N=4	NT, S=5, N=4	NT, S=-3, N=4	NT, S=2, N=4	NT, S=-4, N=4		NT, S=0, N=4	NT, S=1, N=4	NT, S=-3, N=4	NT, S=0,	N=4 N1	IT, S=2, N=4		NT, S=0, N=4		NT, S=0, N=4	,	NT, S=-1, N=4	,	NT, S=1, N=4	i i	
LOB EPL113	NT, S=-3, N=6	NT, S=9, N=6	TUp, S=11, N=6	NT, S=5, N=6	NT, S=2, N=6	NT, S=2, N=6	TDn, S=-9, N=6	NT, S=-5, N=6	NT, S=1, N=5	NT, S=0,		IT, S=6, N=6		NT, S=0, N=6		NT, S=0, N=6		NT, S=-8, N=6		NT, S=-1, N=6		
LOB EPL115 LOB EPL128	NT, S=-9, N=6 NT, S=2, N=9	NT, S=-4, N=6 NT, S=1, N=9	TUp, S=9, N=6 TUp, S=19, N=9	TDn, S=-9, N=6	TUp, S=9, N=6 NT. S=1. N=9	TUp, S=9, N=6 NT, S=-4, N=9	NT, S=-7, N=6	NT, S=3, N=6 NT, S=1, N=9	NT, S=1, N=5 NT, S=3, N=8	NT, S=0, NT, S=0.		Dn, S=-9, N=6		NT, S=0, N=6 NT, S=4, N=9		NT, S=0, N=6 NT, S=0, N=9		NT, S=0, N=6		NT, S=-1, N=6 NT, S=-1, N=9		
LOB PSE GW		TUp, S=160, N=23	TUp, S=63, N=23	NT, S=-20, N=23	TUp, S=60, N=23	NT, S=50, N=23	TDn, S=-137, N=23	NT, S=29, N=23	NT, S=-6, N=21	NT, S=0,		IT, S=-20, N=23	NT, S=6, N=8	NT, S=-10, N=23	NT, S=0, N=8	NT, S=22, N=23		NT, S=0, N=23		NT, S=-22, N=23		
LOB EPL116	NT, S=-3, N=6	NT, S=-1, N=6	TUp, S=10, N=6	NT, S=-8, N=6	NT, S=2, N=6		NT, S=-6, N=6	NT, S=7, N=6	TUp, S=8, N=5	NT, S=0,		IT, S=-6, N=6		NT, S=0, N=6		NT, S=0, N=6		NT, S=0, N=6		NT, S=-1, N=6		
LOB EPL114 LOB EPL117	NT, S=1, N=6 NT, S=1, N=6	NT, S=-6, N=6 NT, S=-5, N=6	NT, S=5, N=6 TUp, S=13, N=6	NT, S=-4, N=6 NT, S=-7, N=6	NT, S=-1, N=6 NT, S=7, N=6	NT, S=-1, N=6 NT, S=7, N=6	NT, S=-7, N=6	NT, S=7, N=6 NT, S=5, N=6	NT, S=-5, N=5 NT, S=-2, N=5	NT, S=0, NT, S=0,		IT, S=-3, N=6 IT. S=-3, N=6		NT, S=-3, N=6 NT, S=0, N=6		NT, S=0, N=6 NT, S=0, N=6		NT, S=0, N=6 NT, S=0, N=6		NT, S=-9, N=6		
MAR EPL101	NT, S=1, N=6 NT, S=11, N=9	NT, S=-5, N=6 NT, S=-14, N=9	TUp, S=13, N=6 NT, S=10, N=9	TDn, S=-22, N=9	NT, S=7, N=6 NT, S=-4, N=9		TDn, S=-10, N=6 NT, S=10, N=9	NT, S=5, N=6 NT, S=6, N=9	NT, S=-2, N=5 NT, S=-3, N=7	NT, S=0, NT, S=1,		Dn, S=-20, N=9		NT, S=0, N=6 NT, S=-16, N=9			NT, S=4, N=5	NT, S=0, N=6 NT, S=-12, N=9	NT, S=-4, N=5	TUp, S=12, N=6 TDn, S=-20, N=9	N	IT, S=-4, N=5
TAN CH2900	NT, S=-17, N=10	NT, S=18, N=10	NT, S=1, N=10	NT, S=5, N=10	NT, S=-9, N=10	NT, S=11, N=10	NT, S=6, N=10	NT, S=-3, N=10	NT, S=-7, N=9	NT, S=0,		IT, S=5, N=10	NT, S=0, N=5	NT, S=-1, N=10	NT, S=0, N=5	NT, S=0, N=10	NT, S=-6, N=8	NT, S=-15, N=10	NT, S=6, N=8	TUp, S=22, N=10		IT, S=3, N=8
LOB PSE_L1	TUp, S=69, N=25	TUp, S=222, N=25	TDn, S=-82, N=25	TUp, S=94, N=25	TUp, S=73, N=25		NT, S=7, N=25	NT, S=45, N=25	NT, S=-1, N=22	TDn, S=	-140, N=25 TU	Up, S=101, N=25	NT, S=12, N=8	TDn, S=-194, N=2	5 NT, S=-13, N=8	NT, S=0, N=25		NT, S=0, N=25		TDn, S=-100, N=25		
TAN EPL40 ROC EPL127	NT, S=0, N=6 TDn S=-41 N=12	NT, S=1, N=6 NT, S=20, N=12	NT, S=6, N=6 NT, S=-11, N=12	NT, S=-8, N=6 TDn S=-30 N=12	NT, S=-8, N=6 NT, S=-20, N=12		NT, S=-5, N=5 NT, S=-8, N=12	NT, S=-5, N=6 TDn S=-30 N=13	NT, S=-2, N=5 NT, S=1, N=4	NT, S=0, NT, S=0.		Tr, S=-6, N=6	NT. S=2. N=3	NT, S=0, N=6 NT, S=0, N=12	NT. S=0. N=3	NT, S=0, N=6 NT, S=0, N=12	NT, S=-5, N=6 NT, S=-9, N=6	NT, S=-6, N=6 NT, S=0, N=12	NT, S=-3, N=6 NT, S=-6, N=6	NT, S=-1, N=6 NT, S=3, N=12		IT, S=0, N=6 IT. S=0. N=6
ROC EPL37	NT, S=13, N=14	TDn, S=-45, N=12	NT, S=5, N=14	TDn, S=-31, N=14	TDn, S=-36, N=14	TDn, S=-35, N=14	TDn, S=-19, N=12	NT, S=-8, N=14	TDn, S=-9, N=6	NT, S=0,	N=14 NT		NT, S=0, N=3	NT, S=-13, N=14	NT, S=0, N=3	NT, S=0, N=14	NT, S=1, N=3	NT, S=21, N=14	NT, S=-4, N=4	NT, S=-17, N=14	N	IT, S=0, N=4
ROC EPL126	TDn, S=-44, N=12	NT, S=-9, N=12	NT, S=8, N=12	NT, S=-11, N=12	TDn, S=-25, N=12		NT, S=20, N=12	NT, S=-17, N=12		NT, S=0,			NT, S=-3, N=3	NT, S=0, N=12	NT, S=0, N=3		NT, S=5, N=6	NT, S=-19, N=12	NT, S=-3, N=6	TUp, S=45, N=12		IT, S=0, N=6
ROC EPL36	TUp, S=26, N=12 NT S=1 N=12	TDn, S=-42, N=12 NT S=-4 N=12	NT, S=20, N=12 NT S=9 N=12	NT, S=19, N=12 NT S=9 N=12	NT, S=6, N=12 NT S=-12 N=12	NT, S=22, N=12 NT S=-18 N=12	TDn, S=-21, N=12 TUn S=31 N=12	NT, S=-11, N=12 NT S=-6 N=12	NT, S=-9, N=6 NT, S=-3, N=4	NT, S=0, NT S=0			NT, S=0, N=3 NT S=1 N=3	NT, S=0, N=12 NT S=-9 N=12	NT, S=0, N=3 NT S=0 N=3		NT, S=-1, N=3 NT S=5 N=6	NT, S=-4, N=12 NT S=0 N=12	NT, S=-1, N=3 NT S=6 N=6	TDn, S=-28, N=12 TUn S=25, N=12		IT, S=0, N=3 IT S=0 N=6
ROC EPL125	NT, S=1, N=12 NT. S=8, N=12	TDn, S=-24, N=12	NT, S=9, N=12 NT. S=12. N=12	NT, S=9, N=12 NT, S=-12, N=12	NT, S=-12, N=12 NT. S=-7, N=12	NT, S=-18, N=12 NT. S=-10. N=12	TDn. S=-21, N=12	NT, S=-6, N=12 NT, S=-17, N=12		NT, S=0, NT. S=0.			NT, S=1, N=3 NT. S=-3. N=3	NT, S=-9, N=12 NT, S=0, N=12	NT, S=0, N=3 NT, S=0, N=3	NT, S=0, N=12 NT. S=0. N=12	TUD. S=11. N=6	TUp. S=28, N=12	NT, S=6, N=6 NT, S=7, N=6	TUp, S=25, N=12 NT. S=0. N=12		IT, S=0, N=6 IT. S=0. N=6
ROC EPL123	NT, S=20, N=12	TUp, S=34, N=12	TUp, S=26, N=12	TDn, S=-30, N=12	NT, S=-6, N=12	NT, S=-8, N=12	TDn, S=-20, N=12	NT, S=2, N=12	NT, S=1, N=4	NT, S=0,	N=12 TD	Dn, S=-30, N=12	NT, S=-3, N=3	NT, S=5, N=12	NT, S=0, N=3	NT, S=0, N=12	NT, S=-5, N=6	TDn, S=-19, N=12	NT, S=-3, N=6	NT, S=13, N=12		IT, S=0, N=6
TAN EPL46	NT, S=-5, N=6	NT, S=5, N=6	TUp, S=10, N=6	NT, S=6, N=6	NT, S=3, N=6	NT, S=3, N=6	NT, S=-8, N=6	NT, S=-7, N=6	NT, S=-6, N=5	NT, S=0,		IT, S=6, N=6		NT, S=0, N=6		NT, S=0, N=6	NT, S=-3, N=3	TDn, S=-10, N=6	NT, S=0, N=3	TUp, S=9, N=6		
TAN EPL32 TAN EPL51	NT, S=-5, N=6 NT S=-2 N=6	NT, S=5, N=6 NT, S=7, N=6	NT, S=0, N=6 NT, S=5, N=6	NT, S=-2, N=6 NT. S=1. N=6	NT, S=-7, N=6		NT, S=-6, N=6 NT S=-8 N=6	NT, S=-8, N=6 NT, S=-1, N=6	NT, S=-7, N=5 NT, S=-5, N=5	NT, S=0, NT, S=5, N=6 NT, S=0.		IT, S=-2, N=6 IT. S=1. N=6		NT, S=0, N=6 NT, S=0, N=6		NT, S=0, N=6 NT, S=0, N=6	NT, S=-4, N=4	TDn, S=-10, N=6	NT, S=-3, N=4 NT, S=0, N=4	TUp, S=9, N=6		IT, S=0, N=3 IT, S=0, N=3
TAN EPLS1	NT, S=-2, N=6 NT, S=-5, N=6	NT, S=5, N=6	NT, S=8, N=6	NT, S=1, N=6 NT, S=-1, N=6	NT, S=5, N=6		NT, S=-8, N=6 NT, S=-8, N=6	TDn, S=-12, N=6	NT, S=-5, N=5	N1, S=5, N=6 N1, S=0, NT, S=0,		IT, S=1, N=6 IT, S=-1, N=6		NT, S=0, N=6		NT, S=0, N=6	NT, S=0, N=4	NT, S=-8, N=6	NT, S=0, N=4 NT, S=0, N=4	NT, S=6, N=6	N N	IT, S=0, N=3 IT, S=0, N=3
TAN EPL28	NT, S=6, N=6	NT, S=5, N=6	NT, S=5, N=6	NT, S=-3, N=6	NT, S=7, N=6	NT, S=7, N=6	NT, S=-6, N=6	NT, S=-4, N=6	NT, S=-3, N=5	TUp, S=10, N=6 NT, S=0,	, N=6 N1	IT, S=-1, N=6		NT, S=0, N=6		NT, S=0, N=6	NT, S=-2, N=4	NT, S=-6, N=6	NT, S=3, N=4	NT, S=0, N=6		IT, S=0, N=3
LOB EPL2	NT, S=-1, N=3	NT, S=1, N=3	NT, S=-3, N=3	NT, S=0, N=3	NT, S=-3, N=3		NT, S=-1, N=3	NT, S=-3, N=3				IT, S=0, N=3		NT, S=0, N=3		NE 0 0 N 12		NT, S=0, N=3		NT, S=1, N=3		
LOB EPL122	NT, S=-2, N=13	NT, S=-24, N=13	NT, S=-6, N=13	10n, S=-30, N=13	NT, S=-26, N=13	run, S=-32, N=13	NT, S=10, N=13	NT, S=-15, N=13	NT, S=-3, N=7	NT, S=0,	, N=13 TD	un, S=-29, N=13	TDn, S=-6, N=4	NT, S=7, N=13	NT, S=0, N=4	NT, S=0, N=13		NT, S=22, N=13		NT, S=18, N=13		

	Chromium (hexav	valent) Chromium (III+VI)) Chromium (III+VI (Filtered)	(Chromium	Chromium Copper	Copper (Filtered	l) Iron	Iron (Filtered)	Lead	Lead (Filtered)	Magnesium Manganese	Manganese (Filtered)	Nickel	Nickel (Filtered)	Silver	Silver (Filtered	l) Zinc	Zinc (Filtered)	E. Coli	Enterococci	Thermotolerant
Site 🔻 Locatio	n Code 🔽 µg/L	▼ µg/L	μg/L	μg/L 🔻	µg/L ▼µg/L						µg/L ▼µg/L	₩g/L					Ψg/L			org/100ml	
LOB EPL41	NT, S=-9, N=23 NT, S=0, N=26	NT, S=-20, N=17 NT S=-32 N=17	NT, S=-9, N=23 NT, S=9, N=26	NT, S=-4, N=23	NT, S=-2, N= NT, S=-11, N		NT, S=-5, N=17 NT, S=-24, N=17	NT, S=-4, N=23 TUD S=176 N=26	NT, S=-16, N=17	NT, S=0, N=23 NT S=0 N=26	TDn, S=-48, I NT, S=39, N=	N=17 TDn, S=-77, N=2 17 TUp, S=89, N=26	NT, S=-28, N=17 NT, S=10, N=17	NT, S=-4, N=23 NT, S=35, N=26	NT, S=-1, N=16 NT, S=18, N=17	NT, S=-4, N=23	TDn, S=-38, N=17 NT, S=-40, N=17	TDn, S=-59, N=23	TUp, S=57, N=2	1 NT, S=-8, N=10	TUp, S=55, N=21
LOB EPL96	NT, S=3, N=10	NT, S=-2, N=9	NT, S=-22, N=11	NT, S=-18, N=11	NT, S=-4, N		NT, S=-4, N=9	NT, S=7, N=11	NT, S=-2, N=9	NT, S=10, N=11	NT, S=-2, N=			TUp, S=28, N=11	NT, S=-2, N=9	NT, S=0, N=11	NT, S=-4, N=9	TUp, S=23, N=11			
LOB EPL52	NT, S=-19, N=19	NT, S=-18, N=18	TDn, S=-S4, N=19	NT, S=18, N=19	NT, S=16, N		TUp, S=59, N=18	NT, S=14, N=19	NT, S=3, N=18	NT, S=8, N=19	NT, S=-23, N		9 NT, S=8, N=18	NT, S=-16, N=19	NT, S=0, N=18	NT, S=0, N=19	NT, S=-23, N=18	NT, S=-32, N=19			
LOB EPL95	NT, S=0, N=25 NT S=0 N=23	NT, S=-2, N=17	TUp, S=88, N=26	TDn, S=-145, N=26	NT, S=-10, N NT S=-19 N		NT, S=-6, N=17	NT, S=-15, N=26 NT S=9 N=24	NT, S=10, N=17	NT, S=37, N=26	NT, S=3, N=1	7 NT, S=-51, N=26	NT, S=-17, N=17	NT, S=67, N=26	NT, S=37, N=17	NT, S=0, N=26	NT, S=34, N=17	NT, S=59, N=26 4 NT S=26 N=24			
LOB EPLS8	NT, S=0, N=23 NT, S=0, N=26	NT. S=-60. N=25	NT. S=11. N=26	NT. S=-22. N=26	NT, S=-19, N TDn S=-141		4 TDn, S=-158, N=2 6 NT. S=-54, N=25	NT, S=9, N=24 NT. S=0. N=26	TDn, S=-165, N=: NT, S=-25, N=25		TDn, S=-124, NT, S=23, N=	N=24 TDn, S=-88, N=2 25 NT, S=26, N=26	4 TDn, S=-115, N=24 NT, S=-22, N=25	NT. S=34. N=26	TDn, S=-120, N= NT. S=30, N=25	NT, S=0, N=24 NT, S=0, N=26	TDn, S=-127, N=2 NT. S=4. N=25	NT, S=26, N=24 NT, S=-38, N=26			
LOB EPL57	NT, S=-21, N=24	NT, S=-37, N=23	NT, S=0, N=24	NT, S=-15, N=24	TDn, S=-133	N=23 TDn, S=-132, N=2	4 NT, S=-45, N=23	NT, S=0, N=24	TDn, S=-63, N=2	NT, S=0, N=24	NT, S=36, N=		4 NT, S=-28, N=23	NT, S=35, N=24	NT, S=27, N=23	NT, S=0, N=24	NT, S=-30, N=23	NT, S=-3, N=24			
LOB EPL92	NT, S=0, N=26	TDn, S=-76, N=17	NT, S=11, N=26	TDn, S=-213, N=26	TDn, S=-78,	I=17 NT, S=0, N=26	TDn, S=-82, N=17	NT, S=1, N=26	TDn, S=-98, N=1	7 NT, S=23, N=26	TDn, S=-80, I	N=17 NT, S=41, N=26	TDn, S=-80, N=17	TDn, S=-76, N=26	NT, S=-40, N=17		TDn, S=-74, N=17	TDn, S=-85, N=26			
LOB EPL93	NT, S=0, N=25 NT S=-19 N=26	NT, S=36, N=17 NT S=-40 N=17	NT, S=0, N=26 NT S=0 N=26	TDn, S=-92, N=26 TDn, S=-195, N=26	TUp, S=57, I NT S=-21 N		NT, S=34, N=17 NT S=-6, N=17	NT, S=1, N=26 NT S=30 N=26	NT, S=39, N=17 NT S=-3 N=17	NT, S=0, N=26 NT S=0 N=26	NT, S=35, N=		TUp, S=42, N=17 26 NT. S=-20. N=17	TUp, S=74, N=26	TUp, S=49, N=17		NT, S=36, N=17 NT S=-39 N=17	NT, S=11, N=26			
LOB EPL97	NT. S=0. N=25	TDn S=-S0 N=17	NT. S=23. N=26	TDn, S=-148, N=26	NT. S=-39. N		TDn S=-42 N=17	NT. S=11. N=26	NT. S=-28. N=17	NT. S=11. N=26	TDn S=-58 I	N=17 TDn, S=-125, N=		TDn S=-177 N=2	6 NT. S=-3. N=17	NT. S=-7. N=26	NT. S=-30, N=17	TDn S=-103 N=26			
LOB EPL90	NT, S=0, N=23	NT, S=-18, N=17	NT, S=37, N=23	TDn, S=-125, N=23	NT, S=-10, N		NT, S=-22, N=17	NT, S=-27, N=23	NT, S=-28, N=17		NT, S=-26, N	=17 NT, S=31, N=23	NT, S=-14, N=17	NT, S=-15, N=23		NT, S=0, N=23	NT, S=3, N=17	NT, S=-15, N=23			
LOB EPL5	NT, S=0, N=6		NT, S=-4, N=7	NT, S=0, N=7		NT, S=0, N=7		NT, S=-2, N=7		NT, S=0, N=7		NT, S=1, N=7		NT, S=0, N=7		NT, S=0, N=7		NT, S=0, N=7			
LOB EPL12 LOB EPL84	NT, S=0, N=5	TDn 5-45 N-15	NT, S=-1, N=6	NT, S=0, N=6	NT, S=1, N=	NT, S=0, N=6	7 NT. S=-1. N=15	NT, S=-6, N=6 NT, S=42, N=27	NT. S=-1. N=15	NT, S=0, N=6 TUp, S=162, N=2	NT, S=-5, N=	TDn, S=-12, N=6	7 NT, S=-3, N=15	NT, S=0, N=6	NT. S=14. N=15	NT, S=0, N=6 NT, S=0, N=27	NT. S=3. N=15	NT, S=0, N=6 TUD S=153 N=27			
LOB EPL86	NT, S=24, N=19	NT, S=13, N=9	NT, S=-1, N=19	TDn, S=-68, N=19	NT, S=-8, N=	NT, S=20, N=19	NT, S=-2, N=9	TDn, S=-59, N=19	NT, S=-4, N=9	TUp, S=56, N=19	NT, S=-6, N=	NT, S=-36, N=19	NT, S=-3, N=9	NT, S=31, N=19	NT, S=7, N=9	NT, S=0, N=19	NT, S=-1, N=9	NT, S=0, N=19			
LOB EPL81	NT, S=29, N=23	NT, S=13, N=15	NT, S=0, N=23	TDn, S=-109, N=23	NT, S=14, N	15 NT, S=26, N=23	NT, S=6, N=15	TUp, S=65, N=23	NT, S=8, N=15	NT, S=0, N=23	NT, S=13, N=	15 TUp, S=140, N=2	3 NT, S=11, N=15	TUp, S=98, N=23	NT, S=22, N=15	NT, S=0, N=23	NT, S=5, N=15	TUp, S=154, N=23			
LOB EPL6	NT, S=0, N=5		NT, S=0, N=6	NT, S=0, N=6		NT, S=-1, N=6		NT, S=-2, N=6		NT, S=0, N=6		NT, S=-8, N=6		NT, S=0, N=6		NT, S=0, N=6		NT, S=0, N=6			
LOB EPL88 LOB EPL14	NT, S=-41, N=25 NT, S=0, N=6	NT, S=-4, N=15 NT, S=-3, N=4	NT, S=5, N=25 NT, S=0, N=6	NT, S=-9, N=25 NT, S=0, N=6	NT, S=-25, N NT, S=-3, N=		NT, S=20, N=15	TUp, S=77, N=25 NT, S=-9, N=6	NT, S=-1, N=15 NT, S=-3, N=4	NT, S=0, N=25 NT, S=0, N=6	TDn, S=-68, I NT, S=-4, N=	N=15 NT, S=31, N=25	TDn, S=-49, N=15 NT, S=-1, N=4	NT, S=-27, N=25 NT, S=0, N=6	NT, S=8, N=15 NT, S=0, N=4	NT, S=0, N=25 NT, S=0, N=6	NT, S=6, N=15 NT, S=0, N=4	TUp, S=70, N=25 NT, S=0, N=6			
LOB EPLIS	NT, S=-20, N=23	NT. S=-19. N=12	NT. S=-34. N=23	TDn. S=-142, N=22	NT, S=-8, N=	2 NT. S=-24. N=23	NT. S=-8. N=12	TUp. S=88, N=23		NT. S=6. N=23	NT. S=-8. N=:			TUp. S=146. N=23		NT. S=0, N=23	NT. S=-10. N=12	TUp. S=104. N=23			
LOB EPL85	NT, S=-4, N=17	NT, S=-4, N=8	NT, S=-5, N=17	TDn, S=-77, N=17	NT, S=2, N=	TUp, S=73, N=17	NT, S=-5, N=8	NT, S=-37, N=17	NT, S=-6, N=8	NT, S=30, N=17	NT, S=-8, N=1	NT, S=-32, N=17		TUp, S=92, N=17	NT, S=11, N=8	NT, S=0, N=17	NT, S=3, N=8	NT, S=18, N=17			
LOB EPL15	NT, S=0, N=6		NT, S=-1, N=6	NT, S=0, N=6		NT, S=-5, N=6		NT, S=-5, N=6		NT, S=0, N=6		TDn, S=-12, N=6		NT, S=0, N=6		NT, S=0, N=6		NT, S=0, N=6			
LOB EPL8 LOB EPL9	NT, S=0, N=6 NT, S=0, N=5	NT, S=-2, N=4	NT, S=-5, N=6 NT, S=-1, N=6	NT, S=0, N=6 NT, S=0, N=6	NT, S=0, N=-	NT, S=0, N=6 NT, S=-5, N=6	NT, S=-2, N=4	NT, S=-8, N=6 NT, S=-6, N=6	NT, S=-3, N=4	NT, S=0, N=6 NT, S=0, N=6	NT, S=-2, N=-	TDn, S=-11, N=6 NT, S=-7, N=6	NT, S=1, N=4	NT, S=0, N=6 NT, S=0, N=6	NT, S=0, N=4	NT, S=0, N=6 NT, S=0, N=6	NT, S=-3, N=4	NT, S=0, N=6 NT, S=0, N=6			
LOB EPL9	NT, S=0, N=5 NT, S=0, N=7	NT, S=-5, N=5	NT, S=-1, N=6 NT, S=-6, N=7	NT, S=0, N=6 NT, S=-6, N=7	NT, S=-3, N=		TDn, S=-6, N=4	NT, S=-6, N=6 NT, S=-6, N=7	NT, S=-3, N=4	NT, S=0, N=6 NT, S=0, N=7	NT, S=0, N=4	NT, S=-7, N=6 NT, S=-11, N=7	NT, S=-3, N=4	NT, S=0, N=6 NT, S=0, N=7	NT, S=0, N=4	NT, S=0, N=6 NT, S=0, N=7	NT, S=-3, N=4	NT, S=0, N=6 NT, S=0, N=7			
LOB EPL107	NT, S=0, N=6	NT, S=-3, N=4	NT, S=0, N=6	NT, S=0, N=6	NT, S=0, N=	NT, S=0, N=6	NT, S=-4, N=4	TDn, S=-13, N=6	NT, S=-3, N=4	NT, S=0, N=6	NT, S=-2, N=-	1 NT, S=0, N=6	NT, S=0, N=4	NT, S=0, N=6	NT, S=0, N=4	NT, S=0, N=6	NT, S=0, N=4	NT, S=0, N=6			
LOB EPL108	NT, S=0, N=6	NT, S=-3, N=4	NT, S=0, N=6	NT, S=-5, N=6	NT, S=0, N=	NT, S=0, N=6	NT, S=-2, N=4	TDn, S=-12, N=6	NT, S=-3, N=4	NT, S=0, N=6	NT, S=-2, N=-		NT, S=0, N=4	NT, S=0, N=6	NT, S=0, N=4	NT, S=0, N=6	NT, S=-3, N=4	NT, S=0, N=6			
LOB EPL109 LOB EPL10	NT, S=0, N=6 NT, S=0, N=7	NT, S=-3, N=4 NT, S=-3, N=4	NT, S=0, N=6 NT, S=0, N=7	NT, S=0, N=6 NT, S=-6, N=7	NT, S=0, N= NT, S=-3, N=	NT, S=0, N=6 NT, S=0, N=7	NT, S=-2, N=4 NT, S=-4, N=4	TDn, S=-12, N=6 TDn, S=-21, N=7	NT, S=0, N=4 NT, S=-3, N=4	NT, S=0, N=6 NT, S=0, N=7	NT, S=-2, N=	NT, S=0, N=6 NT, S=-9, N=7	NT, S=0, N=4 NT, S=-3, N=4	NT, S=0, N=6 NT, S=0, N=7	NT, S=0, N=4 NT, S=0, N=4	NT, S=0, N=6 NT, S=0, N=7	NT, S=-3, N=4 NT, S=0, N=4	NT, S=-5, N=6 NT, S=0, N=7	NT. S=-9. N=7	NT C- 2 N-2	TDn. S=-13. N=7
LOB EPLIO	NT S=0, N=7	NT S=-3 N=4	NT S=0, N=7	NT S=0 N=7	NT S=-3 N=		NT S=-2 N=4	TDn S=-17 N=7	NT S=-3 N=4	NT S=0, N=7	NT S=-2 N=-		NT S=0 N=4	NT S=0 N=7	NT S=0 N=4	NT S=0, N=7	NT S=0 N=4	NT S=0, N=7		NT. S=-2, N=3	TDn, S=-15, N=7
LOB EPL106	NT, S=-60, N=30	NT, S=-6, N=5	TDn, S=-195, N=30	NT, S=32, N=30	NT, S=-2, N=		NT, S=2, N=5	NT, S=0, N=30	NT, S=-2, N=5	NT, S=0, N=30	TDn, S=-8, N	=5 TDn, S=-192, N=	30 NT, S=-2, N=5	NT, S=-21, N=30	NT, S=0, N=5	NT, S=0, N=30	NT, S=-3, N=5	TDn, S=-43, N=30	,	,.	
TAN EPL30	NT, S=0, N=6		NT, S=0, N=6	NT, S=-5, N=6		NT, S=0, N=6		TDn, S=-11, N=6		NT, S=0, N=6		TDn, S=-10, N=6		NT, S=0, N=6		NT, S=0, N=6		NT, S=1, N=6			
TAN EPL31 MAR EPL26	NT, S=0, N=6 NT, S=0, N=6	NT. S=3. N=4	NT, S=0, N=6 TUp. S=9, N=6	NT, S=0, N=6 NT, S=0, N=6	NT. S=3. N=	NT, S=0, N=6 NT, S=0, N=6	NT. S=0. N=4	TDn, S=-11, N=6 NT. S=-7, N=6	NT. S=0. N=4	NT, S=0, N=6 NT, S=0, N=6	NT. S=2. N=4	TDn, S=-12, N=6 NT. S=-3. N=6	NT. S=-3. N=4	NT, S=0, N=6 NT, S=0, N=6	NT. S=0. N=4	NT, S=0, N=6 NT, S=0, N=6	NT. S=0. N=4	NT, S=0, N=6 NT, S=0, N=6			
MAR EPL26	NT, S=0, N=6 NT, S=-18, N=30	NT, S=3, N=4 NT, S=27, N=21	TUp, S=9, N=6 TUp, S=130, N=30		NT. S=0. N=6 NT. S=0. N=		TUp. S=39. N=15	NT, S=-7, N=6 NT, S=11, N=30	NT, S=0, N=4 NT, S=0, N=17	NT. S=0, N=6 NT. S=5. N=30	NT, S=-8, N=6 TUD, S=55, N		NT, S=-3, N=4 NT, S=0, N=17	NT, S=0, N=6 NT, S=0, N=30	NT, S=0, N=4 NT, S=0, N=15		NT, S=0, N=4 NT, S=0, N=17	TUp. S=43. N=30			
MAR EPL73	NT, S=0, N=9	NT, S=0, N=9	NT, S=-3, N=9	NT, S=9, N=9	NT, S=0, N=	NT, S=-8, N=9	NT, S=0, N=9	NT, S=0, N=9	NT, S=5, N=9	NT, S=0, N=9	NT, S=1, N=9	NT, S=-14, N=9	NT, S=4, N=9	NT, S=-11, N=9	NT, S=0, N=9	NT, S=0, N=9	NT, S=6, N=9	NT, S=-9, N=9			
MAR EPL71	NT, S=0, N=4	NT, S=0, N=4	NT, S=3, N=4	NT, S=0, N=4	NT, S=0, N=	NT, S=3, N=4	NT, S=0, N=4	NT, S=0, N=4	NT, S=0, N=4	NT, S=0, N=4	NT, S=0, N=4	NT, S=-2, N=4	NT, S=0, N=4	TDn, S=-6, N=4	NT, S=3, N=4	NT, S=0, N=4	NT, S=2, N=4	NT, S=5, N=4			
MAR EPL102 MAR EPL100	NT, S=0, N=12 NT, S=-8, N=13	NT, S=-22, N=12 NT, S=4, N=8	NT, S=0, N=12 NT, S=-2, N=13	NT, S=-15, N=12 NT, S=-11, N=13	NT, S=-20, N NT, S=-5, N=		NT, S=-14, N=12 NT, S=-6, N=8	NT, S=0, N=12 NT, S=0, N=13	NT, S=-20, N=12 NT, S=-8, N=8	NT, S=0, N=12 NT, S=0, N=13	NT, S=8, N=1 NT, S=-2, N=1		NT, S=-15, N=12 NT, S=-8, N=8	NT, S=-17, N=12 TUD S=38 N=13	NT, S=-3, N=12 NT, S=0, N=8	NT, S=0, N=12 NT, S=0, N=13	NT, S=-21, N=12 NT, S=-3, N=8	TDn, S=-19, N=12 TUp, S=20, N=13			
MAR EPLIOU	NT S=18 N=21	NT S=14 N=12	NT, S=-2, N=13 NT, S=25, N=21	NT S=-11, N=13	N1, S=-5, N= NT S=2 N=		NT S=10 N=12	NT S=0, N=13 NT S=50 N=21	NT S=18 N=12	NT S=0, N=13	N1, S=-2, N= NT S=-2 N=			NT S=-8 N=21	NT S=3, N=12		NT S=1 N=12	TDn S=-S0 N=21			
MAR EPL72	NT, S=0, N=22	NT, S=14, N=21	NT, S=0, N=22	NT, S=4, N=22	NT, S=10, N	21 NT, S=-28, N=22	NT, S=4, N=21	NT, S=0, N=22	NT, S=7, N=21	NT, S=5, N=22	NT, S=2, N=2	1 NT, S=-55, N=22	NT, S=5, N=21	NT, S=1, N=22	NT, S=21, N=21	NT, S=-13, N=22	NT, S=-30, N=21	TDn, S=-71, N=22			
LOB EPL87	NT, S=-42, N=24	NT, S=-21, N=14	TDn, S=-119, N=24	TDn, S=-161, N=24	NT, S=-16, N		NT, S=-24, N=14	NT, S=-10, N=24	NT, S=-27, N=14	NT, S=0, N=24	NT, S=-21, N		4 NT, S=-19, N=14	TUp, S=143, N=24			NT, S=-15, N=14	TUp, S=109, N=24			
LOB EPL82	NT, S=-13, N=26 NT, S=9, N=24	TDn, S=-44, N=15 NT, S=-20, N=15	NT, S=11, N=26 NT S=0 N=24	TDn, S=-103, N=26 NT, S=-29, N=24	NT, S=-18, N NT, S=23, N		NT, S=-25, N=15 NT, S=28, N=15	NT, S=56, N=26 NT S=-13 N=24	TDn, S=-49, N=1	NT, S=0, N=26 NT S=0 N=24	TDn, S=-45, I NT. S=-31. N:	NT, S=-58, N=26 =15 NT, S=32, N=24	TDn, S=-58, N=15 NT. S=-15, N=15	TDn, S=-109, N=2 NT. S=50. N=24	6 NT, S=-8, N=15 NT, S=15, N=15	NT, S=0, N=26 NT S=0 N=24	TDn, S=-49, N=15 NT, S=21, N=15	NT, S=-70, N=26 NT S=48 N=24			
LOB EPLSO	NT, S=9, N=24 NT, S=0, N=25	NT, S=-20, N=15 NT, S=-9, N=14	NT, S=0, N=24 NT, S=0, N=25	TDn S=-161 N=25	NT, S=-21, N		NT, S=28, N=15 NT, S=-3, N=14	NT, S=-13, N=24 NT, S=65, N=25	NT, S=-8, N=14	NT S=0, N=24	N1, S=-31, N= NT. S=-7. N=:			TDn S=-136 N=2	NI, S=15, N=15 NT. S=5, N=14	NT, S=0, N=25	NT, S=21, N=15 NT, S=-19, N=14	NT, S=48, N=24 NT, S=-31, N=25			
TAN EPL34	NT, S=0, N=6	,,	NT, S=-5, N=6	NT, S=0, N=6	,.	NT, S=0, N=6	,	NT, S=-9, N=6	,,	NT, S=0, N=6	,.	NT, S=1, N=6	,	NT, S=0, N=6	,,	NT, S=0, N=6	, 6 25, 2.	NT, S=0, N=6			
TAN EPL35	NT, S=0, N=6		NT, S=-5, N=6	NT, S=0, N=6		NT, S=0, N=6		NT, S=-9, N=6		NT, S=0, N=6		NT, S=9, N=6		NT, S=-5, N=6		NT, S=0, N=6		NT, S=0, N=6			
TAN EPL33	NT, S=0, N=6 NT, S=0, N=8	NT S=-8 N=7	NT, S=0, N=6 NT, S=0, N=8	NT, S=0, N=6 NT S=0 N=8	NT S=0 N=	NT, S=0, N=6 NT, S=0, N=8	NT S=-7 N=7	NT, S=-6, N=6 NT, S=-14, N=8	NT S=-7 N=7	NT, S=0, N=6 NT S=0 N=8	NT, S=-3, N=	NT, S=-9, N=6 NT, S=-10, N=8	NT. S=-9. N=7	NT, S=0, N=6 NT S=0 N=8	NT S=0 N=7	NT, S=0, N=6 NT S=0 N=8	NT S=-6 N=7	NT, S=0, N=6 NT S=0 N=8			
TAN EPL39	NT, S=0, N=8 NT, S=0, N=9	NT, S=-8, N=7 NT, S=-4, N=5	NT, S=0, N=8 NT, S=0, N=9	NT, S=0, N=8 NT, S=0, N=9	N1, S=0, N= NT. S=6. N=	NT, S=0, N=8 NT, S=0, N=9	NT, S=-7, N=7	NT. S=-14, N=8	NT, S=-7, N=7	NT, S=0, N=8 NT, S=0, N=9	N1, 5=-3, N=	N1, S=-10, N=8	NT, S=-9, N=7	NT, S=0, N=8 NT, S=0, N=9	NT, S=0, N=7	NT, S=0, N=8	NT, S=-6, N=7 NT, S=4, N=5	NT, S=0, N=8 NT, S=8, N=9			
LOB EPLSS	NT, S=0, N=3	NT, S=-3, N=3	NT, S=-2, N=3	NT, S=-2, N=3	NT, S=-2, N=		NT, S=-1, N=3	NT, S=0, N=3	NT, S=-1, N=3	NT, S=0, N=3	NT, S=-1, N=	3 NT, S=-1, N=3	NT, S=0, N=3	NT, S=-1, N=3	NT, S=0, N=3	NT, S=0, N=3	NT, S=-2, N=3	NT, S=-2, N=3			
TAN EPL68	NT, S=0, N=24	TDn, S=-64, N=23	NT, S=0, N=24	NT, S=-30, N=24	TDn, S=-160	N=23 TDn, S=-93, N=24	NT, S=-59, N=23	NT, S=-18, N=24	NT, S=-60, N=23	NT, S=0, N=24	TDn, S=-104,	N=23 NT, S=-59, N=24	TDn, S=-85, N=23	TDn, S=-73, N=24	NT, S=-23, N=23		NT, S=-61, N=23	TDn, S=-60, N=24			
TAN EPL69 TAN EPL105	NT, S=0, N=25 NT, S=0, N=21	NT, S=60, N=24 NT, S=16, N=18	NT, S=-2, N=25	TUp, S=95, N=25 NT, S=13, N=21	TUp, S=74, I NT, S=23, N		NT, S=39, N=24 NT, S=11, N=18	TDn, S=-120, N=2 NT. S=-7, N=21	5 NT, S=21, N=24	NT, S=-6, N=25 NT, S=31, N=21	NT, S=55, N= NT, S=-3, N=:		NT, S=63, N=24	NT, S=16, N=25	TUp, S=79, N=2 NT. S=25, N=18	NT, S=0, N=25 NT, S=7, N=21	NT, S=9, N=24	NT, S=37, N=25			
TAN EPLIOS	NT, S=0, N=21 NT, S=0, N=26	NT, S=16, N=18 NT, S=-62, N=25	NT. S=0. N=26	TDn S74 N-26	N1, S=23, N NT. S=-2. N		NT, S=11, N=18 NT, S=-12, N=25	NT, S=0, N=26	NT, S=-25, N=25		NT, S=-3, N=. NT, S=-20, N:		NT. S=-70. N=25	NT. S=-4. N=26	NT, S=25, N=18 NT, S=27, N=25	NT, S=7, N=21 NT, S=0, N=26	NT, S=-31, N=25	NT S=-45 N=26			
TAN EPL103	NT, S=0, N=25	TDn, S=-49, N=20	NT, S=0, N=25	NT, S=-24, N=25	TUp, S=84, I			NT, S=0, N=25	NT, S=-15, N=20		NT, S=-16, N:			NT, S=0, N=25	NT, S=0, N=20	NT, S=0, N=25	NT, S=-45, N=20	NT, S=-2, N=25			
TAN EPL104	NT, S=0, N=26	TDn, S=-62, N=21	NT, S=12, N=26	NT, S=-5, N=26	NT, S=-49, N		TDn, S=-88, N=21	TDn, S=-72, N=26	TDn, S=-118, N=	21 NT, S=0, N=26	TDn, S=-117,	N=21 TDn, S=-126, N=	26 NT, S=-23, N=21	NT, S=0, N=26	NT, S=0, N=21	NT, S=0, N=26	TDn, S=-92, N=21	TDn, S=-134, N=26			
TAN EPISO	NT, S=-23, N=21 NT, S=0, N=5	TUp, S=12, N=7 NT, S=5, N=6	NT, S=6, N=22 NT, S=5, N=6	NT, S=1, N=22 NT S=5 N=6	TUp, S=15, I TUp, S=9, N		NT, S=9, N=7 NT, S=6, N=6	TUp, S=118, N=22 NT. S=0. N=6	TUp, S=14, N=7 NT. S=0. N=6	TUp, S=104, N=2. NT. S=0. N=6	NT, S=7, N=7 NT, S=1, N=6	NT, S=-15, N=22 NT, S=-3, N=6	TUp, S=15, N=7 NT. S=0. N=6	TUp, S=100, N=22 NT, S=0, N=6	NT, S=6, N=7 NT, S=0, N=6	NT, S=0, N=22 NT, S=0, N=6	NT, S=7, N=7 NT, S=3, N=6	NT, S=22, N=22 NT, S=6, N=6	NT. S=0. N=6		NT, S=0, N=6
LOB EPL110	NT, S=0, N=5 NT, S=0, N=4	N1, 3=5, N=6	NT, S=5, N=6 NT, S=0, N=4	NT, S=5, N=6 NT, S=0, N=4	10p, S=9, N	NT, S=0, N=6	A1, 3-0, N=0	NT, S=0, N=6 NT, S=0, N=4	n1, 3-0, N=6	NT, S=0, N=6 NT, S=0, N=4	N1, 5=1, N=6	NT, S=-3, N=6 NT, S=-3, N=4	N1, 3-U, N=6	NT, S=0, N=6 NT, S=0, N=4	N1, 3-U, N=6	NT, S=0, N=6 NT, S=0, N=4	A1, 3-3, N=0	NT, S=6, N=6 NT, S=1, N=4	141, 3-U, N=6		141, 3-U, N=D
LOB EPL113	NT, S=0, N=6		NT, S=0, N=6	NT, S=-5, N=6		TDn, S=-10, N=6		NT, S=-9, N=6		NT, S=-8, N=6		TDn, S=-13, N=6		NT, S=-9, N=6		NT, S=0, N=6		TDn, S=-11, N=6			
LOB EPL115	NT, S=0, N=6		NT, S=0, N=6	NT, S=-5, N=6		NT, S=0, N=6		NT, S=0, N=6		NT, S=0, N=6		NT, S=-7, N=6		NT, S=0, N=6		NT, S=0, N=6		NT, S=0, N=6			
LOB EPL128 LOB PSE GW	NT, S=0, N=9 /S NT. S=0. N=23		NT, S=0, N=9 NT, S=0, N=23	NT, S=0, N=9 NT, S=0, N=23		NT, S=3, N=9 NT, S=0, N=23		NT, S=-10, N=9 NT, S=-43, N=23		NT, S=-2, N=9 NT, S=0, N=23		NT, S=4, N=9	12	NT, S=5, N=9 NT, S=15, N=23		NT, S=0, N=9 NT, S=0, N=23		TDn, S=-23, N=9			
LOB F3E_GW	NT S=0 N=6		NT S=-6 N=6	NT S=-5 N=6		NT, S=0, N=6		NT S=0 N=6		NT S=0, N=6		NT S=-7 N=6	.5	NT S=-7 N=6		NT S=0, N=6		NT S=-8 N=6			
LOB EPL114	NT, S=0, N=6		NT, S=0, N=6	NT, S=-5, N=6		TDn, S=-9, N=6		NT, S=8, N=6		NT, S=0, N=6		NT, S=3, N=6		NT, S=7, N=6		NT, S=0, N=6		NT, S=-4, N=6			
LOB EPL117	NT, S=0, N=6		NT, S=0, N=6	NT, S=-5, N=6		NT, S=0, N=6		NT, S=9, N=6		NT, S=0, N=6		NT, S=1, N=6		NT, S=-1, N=6		NT, S=0, N=6		NT, S=0, N=6			
MAR EPL101 TAN CH2900	TDn, S=-17, N=9 NT S=8 N=10	NT, S=-2, N=5	TDn, S=-22, N=9 NT S=13 N=10	NT, S=-10, N=9	TUp, S=9, N		NT, S=4, N=5 NT S=-6 N=8	NT, S=6, N=9 NT S=-9 N=10	NT, S=5, N=5	NT, S=4, N=9 NT S=5, N=10	TUp, S=8, N= NT S=-6 N=1		NT, S=6, N=5	NT, S=5, N=9 NT S=10 N=10	NT, S=0, N=5 NT S=-4 N=8	NT, S=0, N=9 NT S=0, N=10	TUp, S=8, N=5 NT S=-6 N=8	NT, S=11, N=9 NT S=-1 N=10			
LOB PSE L1	NT, S=8, N=10 NT S=-27 N=25	NT, S=-2, N=8	NT, S=13, N=10	TDn, S=-22, N=10 NT S=-2 N=25	NT, S=-6, N=	TUD S=120 N=10	NT, S=-6, N=8	NT, S=-9, N=10 NT S=-1 N=25	NT, S=-6, N=8	NT, S=5, N=10 NT S=0 N=25	NT, S=-6, N=1	TDn S-199 N-	NT, S=-6, N=8	NT, S=10, N=10 TUD S=144 N=29	NT, S=-4, N=8	NT, S=0, N=10 NT S=0 N=25	NT, S=-6, N=8	NT, S=-1, N=10 NT S=0 N=25			
TAN EPL40	NT, S=0, N=6	NT, S=3, N=6	NT, S=0, N=6	NT, S=0, N=6	NT, S=0, N=	NT, S=0, N=6	NT, S=-3, N=6	NT, S=-3, N=6	NT, S=-1, N=6	NT, S=0, N=6	NT, S=-7, N=		NT, S=0, N=6	NT, S=0, N=6	NT, S=0, N=6	NT, S=0, N=6	NT, S=3, N=6	NT, S=0, N=6			
ROC EPL127	NT, S=0, N=12	NT, S=-6, N=6	NT, S=0, N=12	TDn, S=-19, N=12	NT, S=-7, N:	NT, S=-18, N=12	NT, S=-7, N=6	NT, S=11, N=12	NT, S=-2, N=6	NT, S=0, N=12	NT, S=-5, N=		NT, S=-1, N=6	NT, S=13, N=12	NT, S=-1, N=6	NT, S=0, N=12	NT, S=-1, N=6	NT, S=18, N=12			
ROC EPL37	NT, S=-17, N=14 NT S=0 N=12	NT, S=1, N=5 NT S=5, N=6	NT, S=13, N=14 NT S=-20 N=12	NT, S=0, N=13	NT, S=-3, N= NT S=-7 N=		NT, S=-1, N=3 NT S=3, N=6	NT, S=-8, N=14 NT S=7 N=12	NT, S=3, N=4 NT S=-1 N=6	NT, S=0, N=14 NT S=3 N=12	NT, S=1, N=3 NT S=3 N=6	NT, S=9, N=14	NT, S=1, N=4 NT S=-1 N=6	NT, S=1, N=14 NT S=-6 N=12	NT, S=0, N=3 NT S=-2 N=6	NT, S=0, N=14 NT S=0 N=12	NT, S=-1, N=4 NT S=1 N=6	TUp, S=22, N=14			
ROC EPL126 ROC EPL36	NT, S=0, N=12 NT, S=0, N=12	NT, S=5, N=6 NT, S=-1, N=3	NT, S=-20, N=12 NT, S=11, N=12	TDn, S=-29, N=12 NT, S=0, N=12	NT, S=-7, N= NT, S=0, N=	NT, S=-7, N=12 NT. S=11. N=12	NT, S=3, N=6 NT, S=-1, N=3	N1, S=7, N=12	NT, S=-1, N=6 NT, S=0, N=3	NT, S=3, N=12 NT, S=0, N=12	NT, S=3, N=6 NT. S=1. N=3	TUp, S=26, N=12 NT, S=14, N=12	NT, S=-1, N=6 NT. S=-2. N=3	NT, S=-6, N=12 NT, S=11, N=12	NT, S=-2, N=6 NT, S=0, N=3	NT, S=0, N=12 NT, S=0, N=12	NT, S=1, N=6 NT, S=-1, N=3	TDn, S=-25, N=12 NT. S=8. N=12			
ROC EPL125	NT, S=0, N=12 NT, S=0, N=12	NT, S=5, N=6	NT, S=11, N=12 NT, S=5, N=12	NT, S=0, N=12 NT, S=-17, N=12	N1, S=0, N= NT, S=3, N=	NT, S=-23, N=12	NT, S=1, N=3 NT, S=5, N=6	NT, S=0, N=12	NT, S=0, N=3 NT, S=6, N=6	NT, S=0, N=12 NT, S=0, N=12	NT, S=1, N=3 NT, S=5, N=6	NT, S=14, N=12 NT, S=9, N=12	NT, S=-2, N=3 NT, S=3, N=6	NT, S=11, N=12 NT, S=-6, N=12	NT, S=0, N=3 NT, S=3, N=6	NT, S=0, N=12 NT, S=0, N=12	NT, S=6, N=6	NT, S=8, N=12 NT, S=-11, N=12			
ROC EPL124	NT, S=0, N=12	TUp, S=11, N=6	NT, S=5, N=12	NT, S=-23, N=12	TUp, S=11, I	=6 NT, S=21, N=12	NT, S=9, N=6	NT, S=0, N=12	TUp, S=10, N=6	NT, S=0, N=12	NT, S=9, N=6	TUp, S=25, N=12	TUp, S=10, N=6	NT, S=9, N=12	TUp, S=10, N=6	NT, S=0, N=12	TUp, S=10, N=6	NT, S=14, N=12			
ROC EPL123	NT, S=0, N=12	NT, S=-5, N=6	NT, S=0, N=12	TDn, S=-39, N=12	NT, S=-3, N=		NT, S=-5, N=6	NT, S=0, N=12	NT, S=-5, N=6	NT, S=0, N=12	NT, S=-5, N=			NT, S=10, N=12	NT, S=-5, N=6	NT, S=0, N=12	NT, S=-5, N=6	TDn, S=-37, N=12			
TAN EPL46 TAN EPL32	NT, S=0, N=6 NT, S=0, N=6	NT, S=-2, N=3 NT, S=-5, N=4	NT, S=5, N=6 NT, S=0, N=6	NT, S=0, N=6 NT, S=-5, N=6	NT, S=-1, N= NT, S=-5, N=		NT, S=-3, N=3	TDn, S=-11, N=6 NT, S=-9, N=6	NT, S=0, N=3 NT, S=-3, N=4	NT, S=0, N=6 NT, S=0, N=6	NT, S=-3, N=: NT, S=-1, N=:		NT, S=0, N=3 NT, S=-3, N=4	NT, S=0, N=6 NT, S=0, N=6	NT, S=0, N=3 NT, S=0, N=4	NT, S=0, N=6 NT, S=0, N=6	NT, S=0, N=3 NT, S=-3, N=4	NT, S=0, N=6 NT, S=0, N=6			
TAN EPL32	NT, S=0, N=6 NT. S=0. N=6	NT, S=-5, N=4 NT, S=-3, N=4	NT, S=0, N=6 NT, S=0, N=6	NT, S=-5, N=6 NT, S=0, N=6	NT, S=-5, N= NT, S=0, N=-	NT, S=0, N=6 NT S=0 N=6	TDn S=-6, N=4	NT, S=-9, N=6 NT, S=-9, N=6	NT, S=-3, N=4 NT, S=-1, N=4	NT, S=0, N=6 NT S=0 N=6	NT, S=-1, N=-		NT, S=-3, N=4 NT. S=0. N=4	NT, S=0, N=6 NT, S=0, N=6	NT, S=0, N=4 NT, S=0, N=4	NT, S=0, N=6 NT, S=0, N=6	NT, S=-3, N=4 NT, S=3, N=4	NT, S=0, N=6 NT. S=0. N=6	NT. S=2. N=6		NT. S=0. N=6
TAN EPL29	NT, S=0, N=6	TDn, S=-6, N=4	NT, S=0, N=6	NT, S=0, N=6	NT, S=-3, N=		TDn, S=-6, N=4	NT, S=-7, N=6	NT, S=-3, N=4	NT, S=0, N=6	NT, S=-2, N=-		NT, S=0, N=4	NT, S=0, N=6	NT, S=0, N=3	NT, S=0, N=6	NT, S=1, N=4	NT, S=0, N=6	,,		
TAN EPL28	NT, S=0, N=6	NT, S=-5, N=4	NT, S=0, N=6	NT, S=0, N=6	NT, S=0, N=-		NT, S=0, N=4	NT, S=-7, N=6	NT, S=-2, N=4	NT, S=0, N=6	NT, S=0, N=4		NT, S=0, N=4	NT, S=0, N=6	NT, S=0, N=4	NT, S=0, N=6	NT, S=1, N=4	NT, S=0, N=6	NT, S=-1, N=6		NT, S=0, N=6
LOB EPL2	NE C O N II		NT, S=-2, N=3	NW 0 2 N 45		NT, S=3, N=3		NT, S=-1, N=3		NT, S=0, N=3		NT, S=1, N=3		NT, S=-1, N=3		NT, S=0, N=3		NT, S=1, N=3			
LOB EPL122	NT, S=0, N=13		TUp, S=30, N=13	N1, S=-3, N=13		TUp, S=30, N=13		TUp, S=56, N=13		TUp, S=23, N=13		NT, S=14, N=13		NT, S=21, N=13		NT, S=-2, N=13		TUp, S=22, N=13			