



MARCH 2026

MONTHLY CONSTRUCTION WATER QUALITY MONITORING REPORT

March 2026

Project No.: 3200-0645

Project: Transgrid Maragle 500/330 kV Substation

Private & Confidential

CONTENTS

1	BACKGROUND	7
2	INTRODUCTION	9
3	METHODOLOGY.....	10
4	BASELINE WATER QUALITY.....	16
4.1	WATER QUALITY OBJECTIVES	16
4.2	SITE SPECIFIC GUIDELINE VALUES.....	16
5	MARCH 2026 MONITORING	17
5.1	OBSERVATIONS.....	18
5.2	RESULTS.....	25
5.2.1	KEY PHYSICAL AND CHEMICAL PARAMETERS.....	25
5.2.1.1	TEMPERATURE	26
5.2.1.2	PH.....	27
5.2.1.3	DISSOLVED OXYGEN.....	28
5.2.1.4	SPECIFIC CONDUCTANCE	29
5.2.1.5	ELECTRICAL CONDUCTIVITY	30
5.2.1.6	TURBIDITY	31
5.2.1.7	TOTAL SUSPENDED SOLIDS	32
5.2.1.8	TOTAL DISSOLVED SOLIDS.....	33
5.2.1.9	REDOX.....	34
5.2.1.10	NITROGEN OXIDES	35
5.2.1.11	AMMONIA.....	36
5.2.1.12	CYANIDE	37
5.2.1.13	TOTAL HARDNESS	38
5.2.1.14	TOTAL KJELDAHL NITROGEN	39
5.2.1.15	TOTAL NITROGEN.....	40
5.2.1.16	TOTAL PHOSPHORUS	41
5.2.1.17	REACTIVE PHOSPHORUS	42
5.2.2	DISSOLVED METALS	43
5.2.3	TOTAL METALS.....	44
6	DISCUSSION	45
7	CONCLUSION	47
	REFERENCES	48

TABLES

TABLE 1 SWQ MONITORING LOCATIONS OUTLINED IN THE METHODOLOGY (NGH, 2022).....	10
TABLE 2 SEASONAL SSGV (NGH, 2024) AND DGV (ANZG, 2018) FOR WATER QUALITY PARAMETERS.....	13
TABLE 3 FIELD OBSERVATIONS DURING SAMPLING.....	18
TABLE 4: RESULTS FOR DISSOLVED METALS.....	43
TABLE 5: RESULTS FOR TOTAL METALS	44

FIGURES

FIGURE 1 LOCALITY OF THE PROJECT AND SWQ MONITORING LOCATIONS	8
FIGURE 2 WATER QUALITY MONITORING LOCATIONS ASSOCIATED WITH REFERENCE SITE YR-RS AND TR-RS IN RELATION TO THE PROJECT	11
FIGURE 3 WATER QUALITY MONITORING LOCATIONS ASSOCIATED WITH REFERENCE SITE WC-RS IN RELATION TO THE PROJECT.....	12
FIGURE 4 : TEMPERATURE FOR YARRANGOBILLY RIVER CATCHMENT	26
FIGURE 5: TEMPERATURE FOR TALBINGO RESERVOIR	26
FIGURE 6: TEMPERATURE FOR YORKERS CREEK CATCHMENT.....	26
FIGURE 7: PH FOR YARRANGOBILLY RIVER CATCHMENT	27
FIGURE 8: PH FOR TALBINGO RESERVOIR	27
FIGURE 9: PH FOR YORKERS CREEK CATCHMENT	27
FIGURE 10: DO FOR YARRANGOBILLY RIVER CATCHMENT	28
FIGURE 11: DO FOR TALBINGO RESERVOIR.....	28
FIGURE 12: DO FOR YORKERS CREEK CATCHMENT	28
FIGURE 13: SPC FOR YARRANGOBILLY RIVER CATCHMENT	29
FIGURE 14: SPC FOR TALBINGO RESERVOIR.....	29
FIGURE 15: SPC FOR YORKERS CREEK CATCHMENT	29
FIGURE 16: EC FOR YARRANGOBILLY RIVER CATCHMENT	30
FIGURE 17: EC FOR TALBINGO RESERVOIR.....	30
FIGURE 18: EC FOR YORKERS CREEK CATCHMENT	30
FIGURE 19: TURBIDITY FOR YARRANGOBILLY RIVER CATCHMENT	31
FIGURE 20: TURBIDITY FOR TALBINGO RESERVOIR.....	31
FIGURE 21: TURBIDITY FOR YORKERS CREEK CATCHMENT	31
FIGURE 22: TSS FOR YARRANGOBILLY RIVER CATCHMENT	32
FIGURE 23: TSS FOR TALBINGO RESERVOIR	32
FIGURE 24: TSS FOR YORKERS CREEK CATCHMENT	32
FIGURE 25 TDS FOR YARRANGOBILLY RIVER CATCHMENT	33
FIGURE 26 TDS FOR TALBINGO RESERVOIR.....	33

FIGURE 27 TDS FOR YORKERS CREEK CATCHMENT	33
FIGURE 28: REDOX FOR YARRANGOBILLY RIVER CATCHMENT	34
FIGURE 29: REDOX FOR TALBINGO RESERVOIR	34
FIGURE 30: REDOX FOR YORKERS CREEK CATCHMENT	34
FIGURE 31: NITROGEN OXIDES FOR YARRANGOBILLY RIVER CATCHMENT	35
FIGURE 32: NITROGEN OXIDES FOR TALBINGO RESERVOIR.....	35
FIGURE 33: NITROGEN OXIDES FOR YORKERS CREEK CATCHMENT	35
FIGURE 34: AMMONIA FOR YARRANGOBILLY RIVER CATCHMENT	36
FIGURE 35: AMMONIA FOR TALBINGO RESERVOIR	36
FIGURE 36: AMMONIA FOR YORKERS CREEK CATCHMENT	36
FIGURE 37: CYANIDE FOR YARRANGOBILLY RIVER CATCHMENT	37
FIGURE 38: CYANIDE FOR TALBINGO RESERVOIR	37
FIGURE 39: CYANIDE FOR YORKERS CREEK CATCHMENT	37
FIGURE 40: CaCO_3 FOR YARRANGOBILLY RIVER CATCHMENT	38
FIGURE 41: CaCO_3 FOR TALBINGO RESERVOIR	38
FIGURE 42: CaCO_3 FOR YORKERS CREEK CATCHMENT	38
FIGURE 43: TKN FOR YARRANGOBILLY RIVER CATCHMENT	39
FIGURE 44: TKN FOR TALBINGO RESERVOIR	39
FIGURE 45: TKN FOR YORKERS CREEK CATCHMENT	39
FIGURE 46: TN FOR YARRANGOBILLY RIVER CATCHMENT	40
FIGURE 47: TN FOR TALBINGO RESERVOIR	40
FIGURE 48: TN FOR YORKERS CREEK CATCHMENT	40
FIGURE 49: TP FOR YARRANGOBILLY RIVER CATCHMENT	41
FIGURE 50: TP FOR TALBINGO RESERVOIR.....	41
FIGURE 51: TP FOR YORKERS CREEK CATCHMENT	41
FIGURE 52: RP FOR YARRANGOBILLY RIVER CATCHMENT	42
FIGURE 53: RP FOR TALBINGO RESERVOIR	42
FIGURE 54: RP FOR YORKERS CREEK CATCHMENT	42

APPENDICES

APPENDIX A: FIELD SHEET (UGL, 2025)

APPENDIX B: COA (ALS, 2025A), QA/QC ASSESSMENT (ALS, 2025B) AND QCR (ALS, 2025C)

APPENDIX C: MARCH 2026 WQ MONITORING RESULTS

APPENDIX D: CALIBRATION CERTIFICATE

ABBREVIATIONS

Acronym	Full Form
°C	degrees Celsius
µS/cm	micro Siemens per centimetre
%	percent
4WD	Four wheel drive
Ag	Silver
Al	Aluminium
ALS	ALS Limited
ANZECC	Australian and New Zealand Environment and Conservation Council
ANZG	Australian and New Zealand Guidelines
ARMCANZ	Agriculture and Resource Management Council of Australia and New Zealand
As	Arsenic
Baseline Report	'Baseline Water Quality Report' (NGH, 2024)
CaCO ₃	Total Hardness
Cd	Cadmium
COA	'Certificate of Analysis' (ALS, 2025a)
COC	Chain of Custody
Cr	Chromium
Cu	Copper
DGV	Default Guideline Values
DO	Dissolved Oxygen
EC	Electrical Conductivity
EIS	Environmental Impact Statement
EPL	Environmental Protection Licence
Fe	Iron
Field Sheet	'Water Quality Monitoring Field Data Sheet' (UGL, 2025)
Hg	Mercury
km	kilometres
KNP	Kosciuszko National Park
kV	kilovolt
LOR	limit of reporting
mg/L	milligram per litre
mm	millimetre
Mn	Manganese
mV	millivolt
NATA	National Association of Testing Authorities, Australia

ABBREVIATIONS

Acronym	Full Form
NEM	National Energy Market
NGH	NGH Pty Ltd
Ni	Nickel
NSW	New South Wales
NTU	Nephelometric Turbidity Unit
Pb	Lead
ppm	parts per million
Pty Ltd	Proprietary Limited
QA/QC Assessment	'QA/QC Compliance Assessment to assist with Quality Review' (ALS, 2025b)
QCR	'Quality Control Report' (ALS, 2025c)
RP	reactive phosphorus
RS	Reference Site
Snowy 2.0	Snowy Scheme expansion project (EPBC 2018/8322)
Snowy Hydro	Snowy Hydro Limited
Snowy Scheme	Snowy Mountains Hydro-electric Scheme
SPC	specific conductance
SSGV	Site Specific Guideline Values
SW	surface water
SWQ	surface water quality
TDS	Total Dissolved Solids
The Methodology	'Pre-construction Water Quality Monitoring Program and Methodology' (NGH, 2022)
The Project	Construction of a 330 kV substation and overhead transmission lines between Nurenmerenmong, NSW and Cabramurra, NSW
TKN	Total Kjeldahl Nitrogen
TN	Total Nitrogen
TP	Total Phosphorus
Transgrid	The Trustee for the NSW Electricity Operations Trust
TSS	Total Suspended Solids
UGL	UGL Limited
WQO	water quality objectives
Zn	Zinc

1 BACKGROUND

In 2020 Snowy Hydro Limited (Snowy Hydro) obtained approval (EPBC 2018/8322) to expand the existing Snowy Mountains Hydro-electric Scheme (Snowy Scheme), by linking the existing Tantangara and Talbingo reservoirs through a series of underground tunnels and constructing a new underground hydro-electric power station (Snowy 2.0).

To connect Snowy 2.0 to the National Energy Market (NEM), a new transmission connection was required. The Trustee for the New South Wales (NSW) Electricity Operations Trust (TransGrid) is constructing a 330 kilovolt (kV) substation and overhead transmission lines (the Project) to facilitate the connection of Snowy 2.0 to the existing electrical transmission network. The Project is located within Kosciuszko National Park (KNP) between Nurenmerenmong and Cabramurra, NSW, approximately 27 kilometres (km) east of Tumbarumba, NSW (Figure 1). UGL Limited (UGL) has been engaged on behalf of Transgrid to undertake the Project.

2 INTRODUCTION

The Project is adjacent to, and forms part of, the Snowy 2.0 project area and is located within KNP, an area of high conservation value. A total of 22 mapped waterways, tributaries of Yarrangobilly River and Tumut River, transect the Project Boundary (Figure 1).

One of the conditions of approval to meet the requirements outlined in the 'Environmental Impact Statement' (EIS) (Jacobs, 2020) and the Project's Environmental Protection Licence (EPL 21753) is to undertake regular surface water quality (SWQ) monitoring to mitigate environmental impacts on SWQ.

Pre-construction SWQ monitoring was undertaken by NGH Pty Ltd (NGH) between March 2022 and February 2024 to determine site specific baseline values for SWQ parameters prior to Project construction works. The pre-construction SWQ monitoring was undertaken using the 'Pre-construction Water Quality Monitoring Program and Methodology' (the Methodology) developed by NGH in 2022 (refer Section 3). Two years of pre-construction SWQ monitoring was analysed and summarised in the 'Baseline Water Quality Report' (Baseline Report) (NGH, 2024). The results were used to determine seasonal Site Specific Guideline Values (SSGV) for ongoing SWQ monitoring during the construction phase.

Construction for the Project commenced in March 2024. Construction SWQ monitoring will be undertaken by UGL on a monthly basis as per the revised methodology outlined in Section 3 to identify potential changes to SWQ that may be associated with the Project. SW samples from the construction SWQ monitoring would be analysed and presented in monthly Construction Water Quality Monitoring Reports.

3 METHODOLOGY

The Methodology was prepared by NGH in 2022 to support the pre-construction SWQ monitoring for the Project. The Methodology detailed the water quality objectives (WQO) for the Project, identified the monitoring locations and outlined the methodology for surface water (SW) sampling during the pre-construction phase. The Methodology (NGH, 2022) took into account the Project location within an area of high conservation value where the WQO for physical and chemical stressors, as outlined in the 'Australian and New Zealand Guidelines for Fresh and Marine Water Quality' (ANZG) (ANZG, 2018), includes no change in biodiversity beyond natural variability and where possible, there should also be no change in water/sediment chemical and physical properties, including toxicants.

Monitoring locations are outlined in Table 1. Figure 2 and Figure 3 show the water quality monitoring locations in relation to the Project and Snowy 2.0.

The Methodology (NGH, 2022) has been revised for construction SWQ monitoring by taking into account the seasonal SSGV set out in the Baseline Report (NGH, 2024) (refer to Section 4.2).

Construction SWQ monitoring would be analysed against the seasonal SSGV where available and appropriate. The Default Guideline Values (DGV) for Upland Rivers (ANZG, 2018) would be applied to water quality parameters that were not assessed in the Baseline Report (NGH, 2024) or where a guideline range is more appropriate. Table 2 outlines the seasonal SSGV and DGV used to compare construction SWQ to pre-construction SWQ.

Table 1 SWQ monitoring locations outlined in the Methodology (NGH, 2022)

WATER QUALITY MONITORING LOCATIONS					
ID	Waterway	Site Type	Catchment	Latitude	Longitude
WC-RS	Wallace Creek	Reference	Yarrangobilly River	-35.794258	148.415253
WC-IS	Wallace Creek	Impact		-35.792982	148.413404
CG-IS	Cave Gully	Impact		-35.795495	148.406665
YR1-IS	Yarrangobilly River	Impact		-35.793358	148.408277
LHG-IS	Lick Hole Gully	Impact		-35.792890	148.400445
YR2-IS	Yarrangobilly River	Impact		-35.784656	148.392921
SSC-IS	Sheep Station Creek	Impact		-35.793243	148.391046
TR-RS	Talbingo Reservoir	Reference	Talbingo Reservoir	-35.822094	148.365690
YK-RS	Yorkers Creek	Reference	Yorkers Creek	-35.801126	148.297979
YK-IS (D/S)	Yorkers Creek	Impact		-35.782684	148.320040
NZG-IS	New Zealand Gully	Impact		-35.801575	148.318051
YK-IS	Yorkers Creek	Impact		-35.792209	148.308878

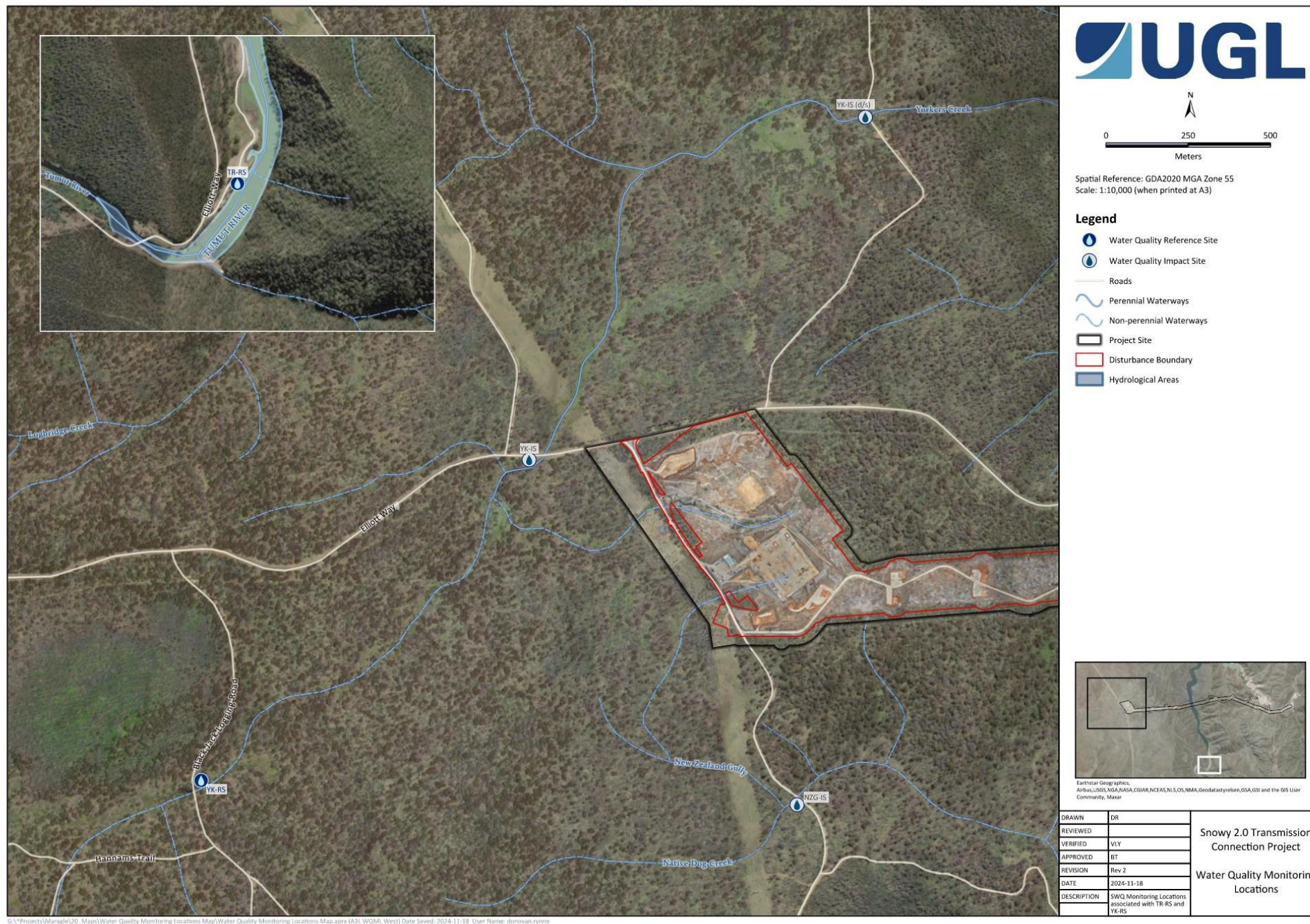


FIGURE 2 WATER QUALITY MONITORING LOCATIONS ASSOCIATED WITH REFERENCE SITE YR-RS AND TR-RS IN RELATION TO THE PROJECT

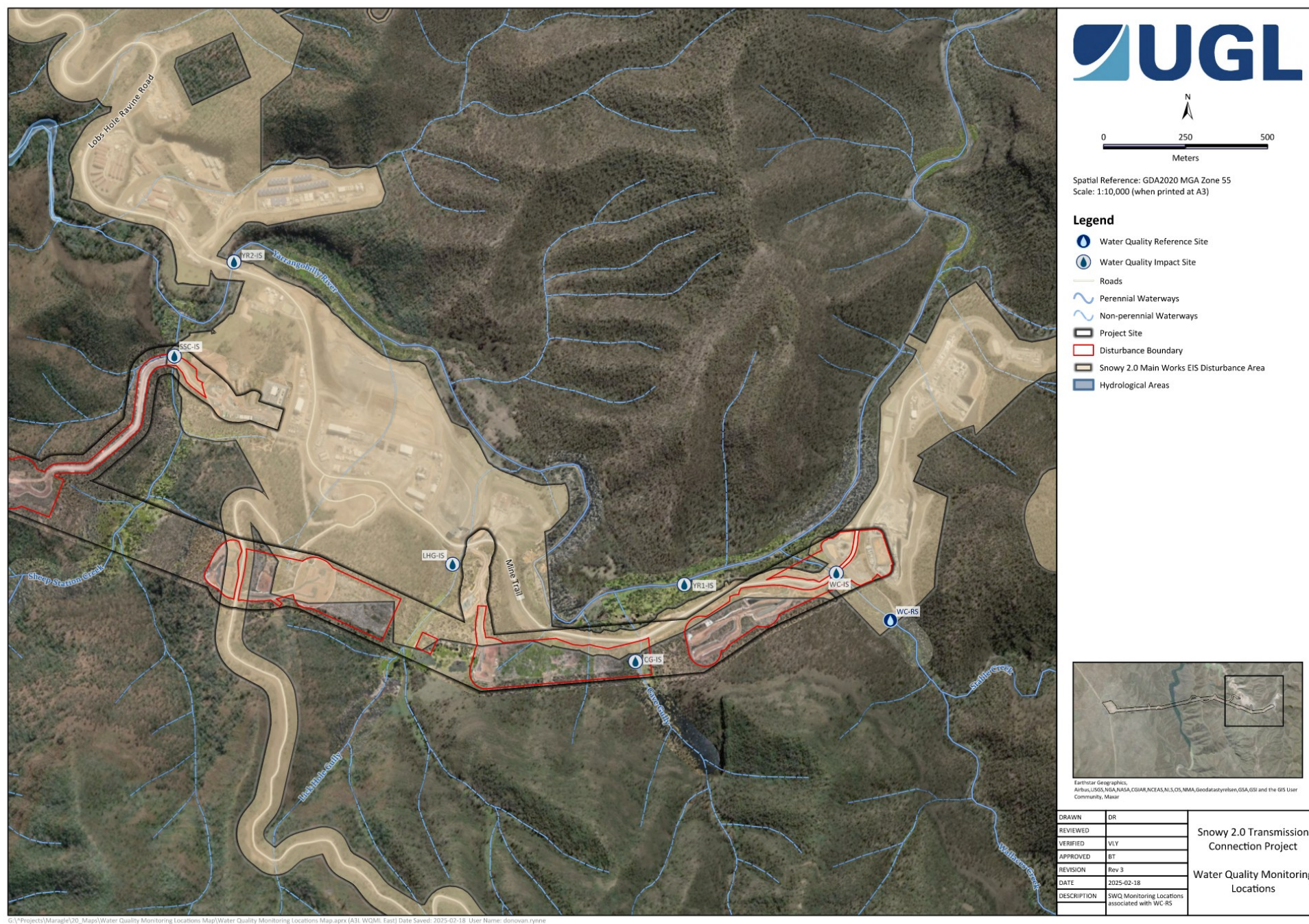


Table 2 Seasonal SSGV (NGH, 2024) and DGV (ANZG, 2018) for water quality parameters

SURFACE WATER QUALITY GUIDELINE VALUES								
Parameter	Unit	WC-RS		TR-RS		YK-RS		DGV
		SSGV (Summer/Autumn)	SSGV (Winter/Spring)	SSGV (Summer/Autumn)	SSGV (Winter/Spring)	SSGV (Summer/Autumn)	SSGV (Winter/Spring)	
Temperature	°C*	-	-	-	-	-	-	-
Dissolved Oxygen (DO) ***	%#	96.2	89.7	91.3	95.5	89.6	88.7	90-110
DO	ppm ⁺	9.08	10.28	8.79	11.53	8.35	10.2	-
Specific Electrical Conductivity (EC)***	SPC [^] μS/cm ^{^^}	115	88	24	38.7	31	27.9	30-350
EC***	μS/cm	93.2	60.85	20.3	26.2	24	20.5	30-350
pH***	-	7.85	7.62	7.59	7.59	6.79	6.61	6.5-8
Redox	mV ^{##}	79.1	98.4	91.2	95.4	94.6	106.1	-
Turbidity***	NTU ^{**}	0.37	5.12	0.09	1.56	9	7.87	2-25
Dissolved Aluminium (Al)	mg/L ⁺⁺	0.03	0.04	0.03	0.015	0.36	0.32	0.027
Dissolved Arsenic (As)	mg/L	0.003	0.0003	0.003	0.0003	0.003	0.0003	0.0008
Dissolved Cadmium (Cd)	mg/L	0.00002	0.00002	0.00002	0.00002	0.00002	0.00002	0.0006
Dissolved Chromium (Cr)	mg/L	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001
Dissolved Copper (Cu)	mg/L	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.001
Cyanide	mg/L	0.002	0.002	0.002	0.002	0.002	0.002	0.004
Dissolved Iron (Fe)	mg/L	0.03	0.02	0.04	0.02	0.41	0.23	0.3
Dissolved Lead (Pb)	mg/L	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Dissolved Manganese (Mn)	mg/L	0.002	0.002	0.003	0.002	0.005	0.003	1.2
Dissolved Mercury (Hg)	mg/L	0.00003	0.00003	0.00003	0.00003	0.00003	0.00003	0.00006

SURFACE WATER QUALITY GUIDELINE VALUES

Parameter	Unit	WC-RS		TR-RS		YK-RS		DGV
		SSGV (Summer/Autumn)	SSGV (Winter/Spring)	SSGV (Summer/Autumn)	SSGV (Winter/Spring)	SSGV (Summer/Autumn)	SSGV (Winter/Spring)	
Dissolved Nickel (Ni)	mg/L	0.001	0.001	0.001	0.001	0.001	0.001	0.008
Total Nitrogen (TN)	mg/L	0.2	0.2	0.2	0.2	0.2	0.2	0.25
Total Phosphorus (TP)	mg/L	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Dissolved Silver (Ag)	mg/L	0.00002	0.00002	0.00002	0.00002	0.00002	0.00002	0.00002
Dissolved Zinc (Zn)	mg/L	0.002	0.002	0.002	0.002	0.002	0.002	0.0024
Ammonia	mg/L	0.013	0.013	0.013	0.013	0.013	0.013	0.013
Nitrogen Oxides	mg/L	0.015	0.015	0.015	0.015	0.015	0.015	0.015
Reactive Phosphorus (RP)	mg/L	0.02	0.015	0.02	0.015	0.02	0.02	0.015
Total Hardness (CaCO ₃)	mg/L	47	30	7.5	8	1	7	-
Total Kjeldahl Nitrogen (TKN)	mg/L	0.2	0.2	0.1	0.2	0.1	0.2	-
Total Dissolved Solids (TDS)	mg/L	52	39	12.5	15	30	10	-
Total Suspended Solids (TSS)	mg/L	0.2	1	0.2	0.2	3	0.2	0.2
Total Al [@]	mg/L	-	-	-	-	-	-	0.027
Total As [@]	mg/L	-	-	-	-	-	-	0.0008
Total Cd [@]	mg/L	-	-	-	-	-	-	0.0006
Total Cr [@]	mg/L	-	-	-	-	-	-	0.00001
Total Cu [@]	mg/L	-	-	-	-	-	-	0.001
Total Pb [@]	mg/L	-	-	-	-	-	-	0.001
Total Mn [@]	mg/L	-	-	-	-	-	-	1.2
Total Ni [@]	mg/L	-	-	-	-	-	-	0.008

SURFACE WATER QUALITY GUIDELINE VALUES

Parameter	Unit	WC-RS		TR-RS		YK-RS		DGV
		SSGV (Summer/Autumn)	SSGV (Winter/Spring)	SSGV (Summer/Autumn)	SSGV (Winter/Spring)	SSGV (Summer/Autumn)	SSGV (Winter/Spring)	
Total Ag [@]	mg/L	-	-	-	-	-	-	0.00002
Total Zn [@]	mg/L	-	-	-	-	-	-	0.0024
Total Fe [@]	mg/L	-	-	-	-	-	-	0.3
Total Hg [@]	mg/L	-	-	-	-	-	-	0.00006

* °C = degrees Celsius

% = percent

mV = millivolt

+ ppm = parts per million

^ SPC = specific conductance

** mg/L = milligram per litre

** NTU = Nephelometric Turbidity Unit

^^ µS/cm = micro Siemens per centimetre

@ parameter not analysed by NGH

*** assessed against DGV where guideline range is more appropriate for the parameter

4 BASELINE WATER QUALITY

4.1 Water Quality Objectives

Water quality objectives are outlined in Section 2.1 of the Baseline Report (NGH, 2024).

4.2 Site Specific Guideline Values

In accordance with the ANZG (ANZG, 2018), SSGV for the three Reference Sites (RS) (WC-RS, TR-RS and YK-RS) were derived from the results collected during the 24-month pre-construction SWQ monitoring period. The SSGV reflect the seasonality observed in the baseline data and are characterised by the drier months of Summer/Autumn (December to May) and wetter months of Winter/Spring (June to November) in accordance with the 'Australian and New Zealand Environment and Conservation Council (ANZECC) and Agriculture and Resource Management Council of Australia and New Zealand (ARMCANZ) (2000) methodology and derivatives developed to 2018 of the ANZG (ANZG, 2018).

Table 2 outlines the seasonal SSGV provided in the Baseline Report (NGH, 2024).

5 APRIL 2026 MONITORING

SW sampling was undertaken at 10 monitoring locations from 12 April 2026. SSC-IS and CG-IS were dry or had no flow at the time of monitoring.

In accordance with the methodology outlined in Section 3, SW samples were either measured in situ using a calibrated YSI ProDSS Sonde Multiparameter Digital Water Quality Meter (refer to Appendix D) or analysed by National Association of Testing Authorities, Australia (NATA) accredited ALS Limited (ALS) laboratory.

The 'Water Quality Monitoring Field Data Sheet' (Field Sheet) (UGL, 2025) is provided in Appendix A. The 'Certificate of Analysis' (COA) (ALS, 2025a), 'QA/QC Compliance Assessment to assist with Quality Review' (QA/QC Assessment) (ALS, 2025b) and 'Quality Control Report' (QCR) (ALS, 2025c) are attached in Appendix B.

5.1 Observations

Field observations during sampling are summarised in Table 3.

Table 3 Field observations during sampling

FIELD OBSERVATIONS		
Date	8 March 2026	
Weather	The weather forecast for 8 March was 11 to 18°C with 60 percent of <1 millimetres (mm) of rain. The weather at the time of sampling, the weather was fine and sunny.	
ID	Observations	Photo
WC-RS	- Moderate flow rate. - Clear water - Presence of aquatic vegetation in the water channel. - Presence of vegetative detritus in the waterbody. - Rocky and eroded banks with exposed roots from a large tree. - Riparian vegetation comprised of groundcover species, shrubs and mature trees. - Moderate weed density, including blackberry (<i>Rubus fruticosus</i>).	

FIELD OBSERVATIONS

ID	Observations	Photo
WC-IS	- Moderate volume and flow rate. - Water clear with no visible discolouration. - Presence of aquatic vegetation in water channel. - Presence of vegetative detritus in waterbody. - Rocky and undercut banks present. - Riparian vegetation, comprised of trees and grass. - High weed density, including blackberry (<i>Rubus fruticosus</i>). - Monitoring location is situated adjacent to bridge and Mine Trail Road which is frequently used by snowy 2.0 vehicles, plant and machinery.	 35.7930S 148.4134E 120° SE Kosciuszko National Park WC-IS
CG-IS	Dry at the time of sampling	

FIELD OBSERVATIONS

ID	Observations	Photo
YR1-IS	- Fast flow rate. - Rocky banks with sections of exposed soil along upper bank areas. - Riparian vegetation comprised of groundcover species, shrubs and trees. - Moderate weed density including thistle (<i>Cirsium spp.</i>) and blackberry (<i>Rubus fruticosus</i>) - Monitoring location is situated adjacent to bridge and electrical transmission tower on top of rocky cliff and Snowy 2.0 laydown area	
LHG-IS	Dry at the time of sampling	

FIELD OBSERVATIONS

ID	Observations	Photo
YR2-IS	- Moderate water volume and flow rate. - Rocky bed with no defined banks. - Riparian vegetation comprised of groundcover species, shrubs and trees. - Moderate weed density, including blackberry (<i>Rubus fruticosus</i>). - Presence of road washout from Mine Trail Road in vegetation adjacent to river.	
SSC-IS	Dry; no flow at the time of sampling.	

FIELD OBSERVATIONS

ID	Observations	Photo
TR-RS	- Slight flow - Clear Water - Lower level than past monitoring events - Rocky banks. - Presence of campers - Monitoring location is situated adjacent to publicly accessible O'Hares Campground and Talbingo Reservoir ancillary infrastructure.	
YK-RS	Dry at the time of sampling	

FIELD OBSERVATIONS

ID	Observations	Photo
YK-IS (D/S)	Dry at the time of sampling	
NZG-IS	- Low water volume and flow rate. - Presence of organic detritus in waterbody. - Evidence of fauna tracks on banks - Monitoring location is situated adjacent to publicly accessible 4WD track.	

FIELD OBSERVATIONS		
ID	Observations	Photo
YK-IS	• Low water volume and flow rate. • Dark bed. • Yellow tinge observed in water. • Presence of aquatic vegetation in water channel. • Presence of vegetative detritus in waterbody. • Overhanging vegetation. • Monitoring location is situated adjacent to Elliot Way, leading towards culvert.	

5.2 Results

The results from the construction SWQ monitoring program have been reported for each respective catchment: Yarrangobilly River, Talbingo Reservoir, and Yorkers Creek.

- **Yarrangobilly River catchment** monitoring includes the reference site at Wallace Creek and impact sites at Yarrangobilly River, Wallace Creek, Cave Gully, Lick Hole Gully, and Sheep Station Creek.
- **Yorkers Creek catchment** monitoring includes the reference site at Yorkers Creek and impact sites at Yorkers Creek and New Zealand Gully.
- **Talbingo Reservoir** features a reference site located upstream within the reservoir, serving as an overall reference for monitoring sites in the Yarrangobilly River and Yorkers Creek catchments.

This reference site provides a baseline for the SWQ monitoring program.

The SWQ monitoring results for key physical and chemical parameters, along with site-specific trigger values, are detailed in Section 5.2.1. Results for dissolved and total metals, including site-specific trigger values, are covered in Sections 5.2.2 and 5.2.3. Upon review of the data, observations were noted between the reference and impact sites.

The complete table of results is attached in Appendix C.

5.2.1 Key Physical and Chemical Parameters

See below for results of key physical and chemical parameters.

5.2.1.1 Temperature

During March 2026, all sampling locations within Yarrangobilly River Catchment and Yorkers Creek Catchment exhibited a decrease in temperature (°C). Mean temperatures reduced to $\approx 20^{\circ}\text{C}$ in Yarrangobilly River Catchment (Figure 4) and to $\approx 13^{\circ}\text{C}$ in Yorkers Creek Catchment (Figure 6). In contrast, the temperature at Talbingo Reservoir increased by $\approx 2^{\circ}\text{C}$ to $\approx 20^{\circ}\text{C}$ in March 2026 (Figure 5).

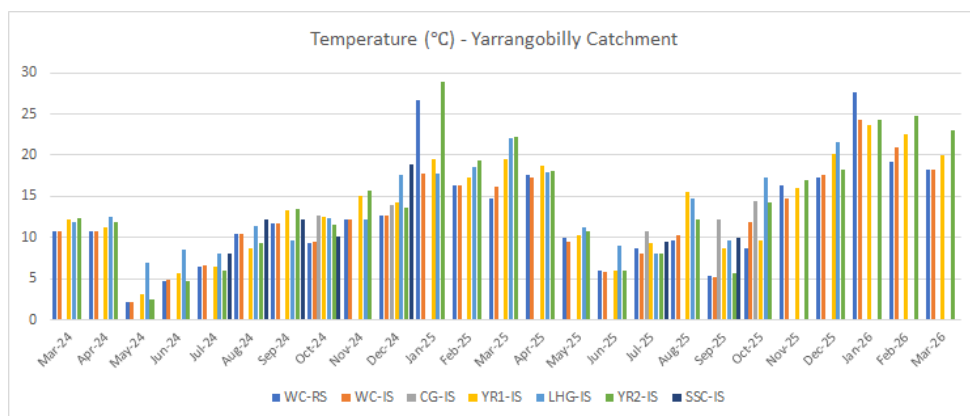


FIGURE 4 : TEMPERATURE FOR YARRANGOBILLY RIVER CATCHMENT

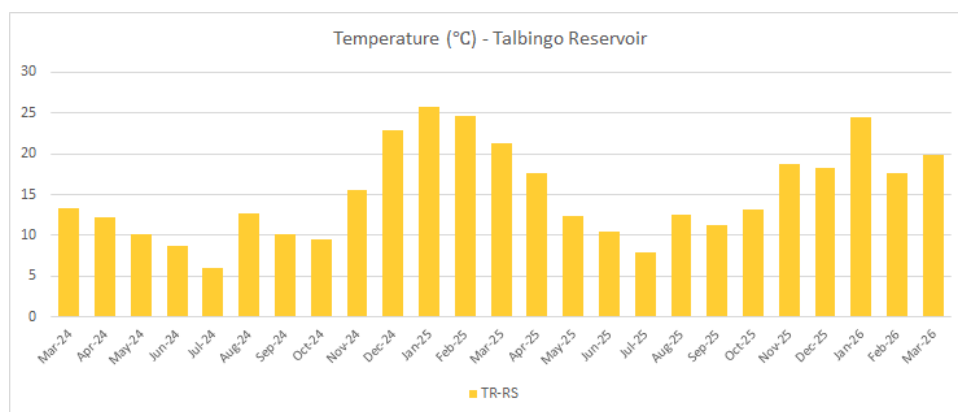


FIGURE 5: TEMPERATURE FOR TALBINGO RESERVOIR

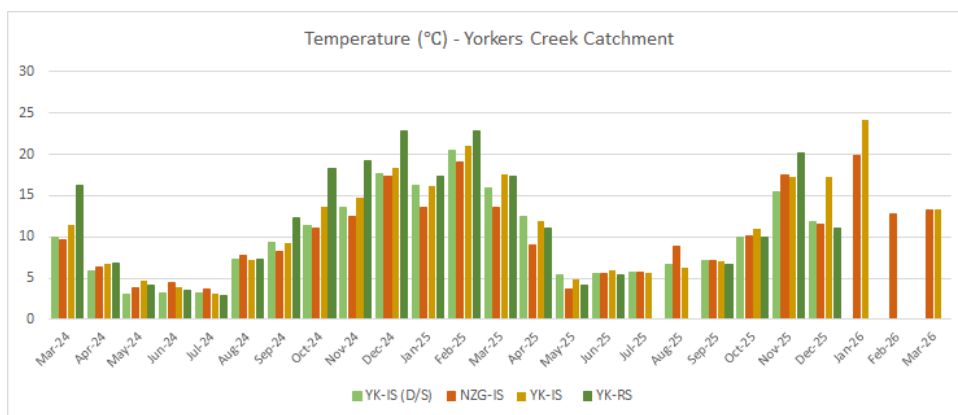


FIGURE 6: TEMPERATURE FOR YORKERS CREEK CATCHMENT

5.2.1.2 pH

During the March 2026 sampling period, pH values varied across the three catchments (Figure 7 - Figure 9). All sites within Yarrangobilly River Catchment exceeded the December – May SSGV (Figure 7). By comparison, the reference site at Talbingo Reservoir (TR-RS) was below the December-May SSGV (Figure 8). At Yorkers Creek Catchment, results varied, with YK-IS recording a pH value below the SSGV, and NZG-IS exhibiting a value greater than the SSGV.

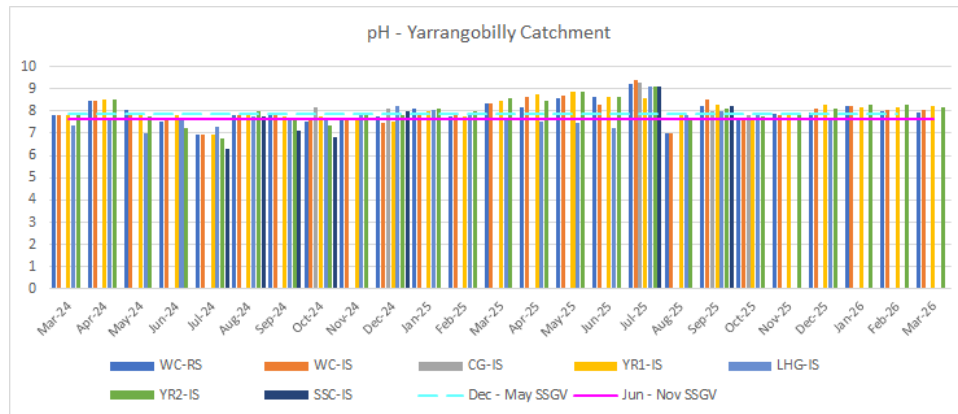


FIGURE 7: PH FOR YARRANGOBILLY RIVER CATCHMENT

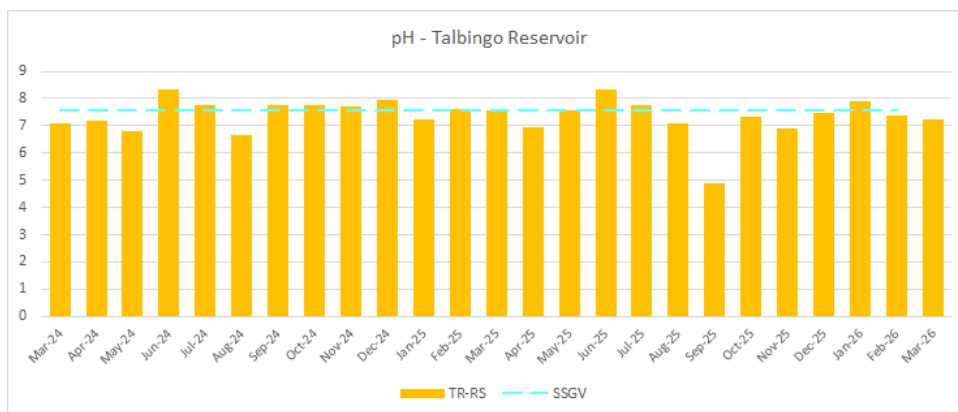


FIGURE 8: PH FOR TALBINGO RESERVOIR

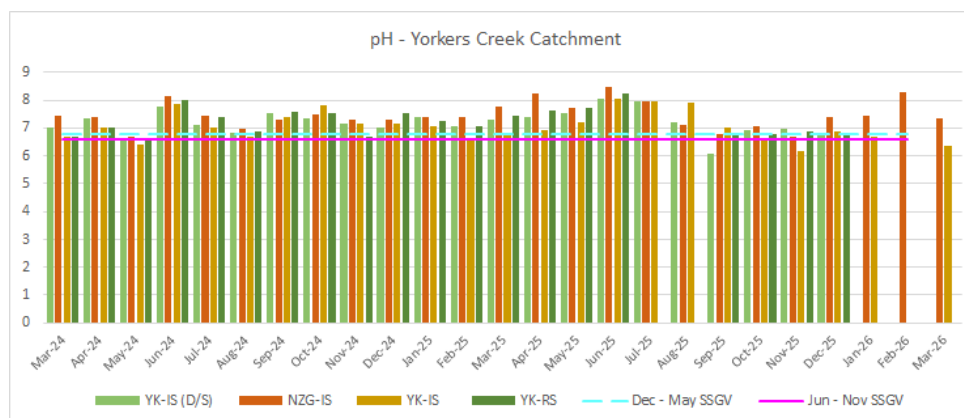


FIGURE 9: PH FOR YORKERS CREEK CATCHMENT

5.2.1.3 Dissolved Oxygen

During the March 2026 sampling period, Dissolved Oxygen (DO, %) reduced across most sites compared with February 2026 values and remained below the respective December-May SSGV values at all sampled locations. A notable improvement in DO (%) was recorded at Talbingo Reservoir, and a notable deterioration was recorded at YK-IS in Yorkers Creek Catchment (Figure 10 – Figure 12).

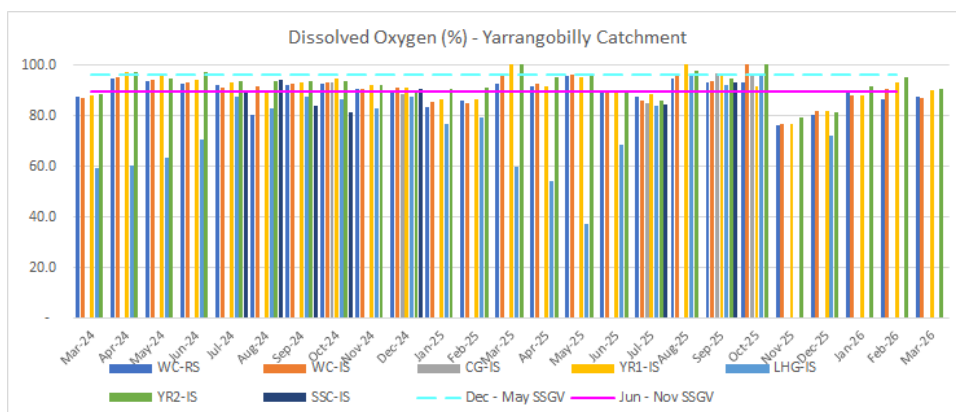


FIGURE 10: DO FOR YARRANGOBILLY RIVER CATCHMENT

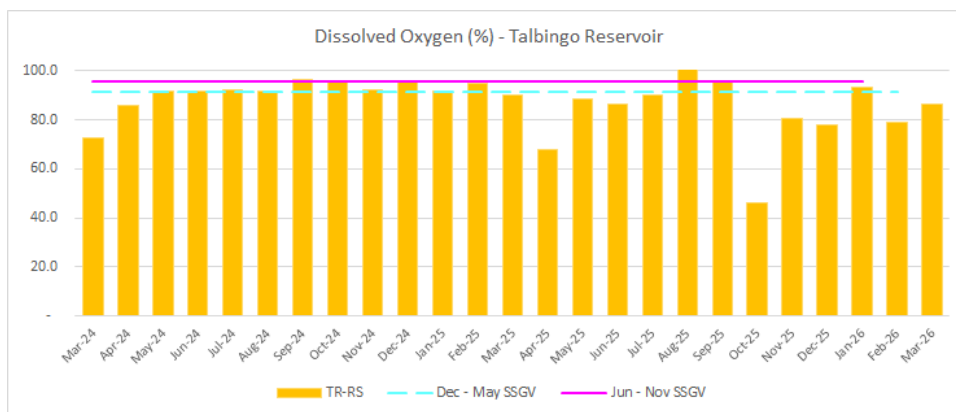


FIGURE 11: DO FOR TALBINGO RESERVOIR

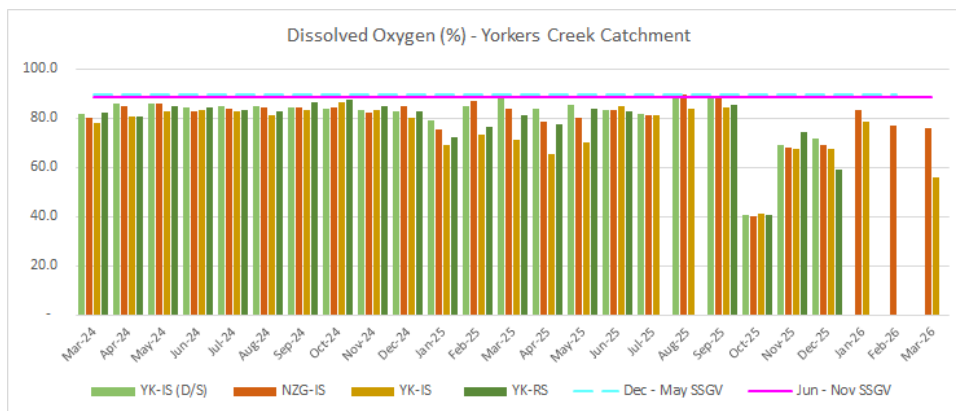


FIGURE 12: DO FOR YORKERS CREEK CATCHMENT

5.2.1.4 Specific Conductance

March 2026 specific conductance ($\mu\text{S}/\text{cm}$) values exceeded the December-May SSGV at all sites across the three catchments (Yarrangobilly River Catchment, Talbingo Reservoir, Yorkers Creek Catchment), except WC-IS, which was below the SSGV, refer Figure 13-Figure 15.

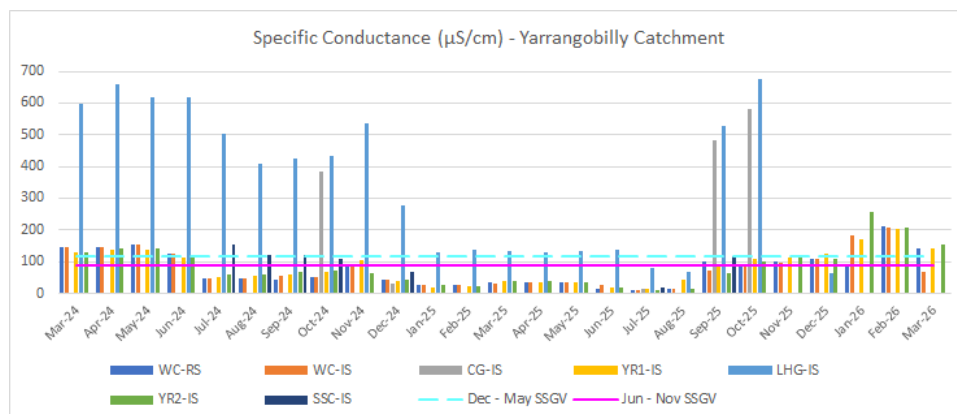


FIGURE 13: SPC FOR YARRANGOBILLY RIVER CATCHMENT

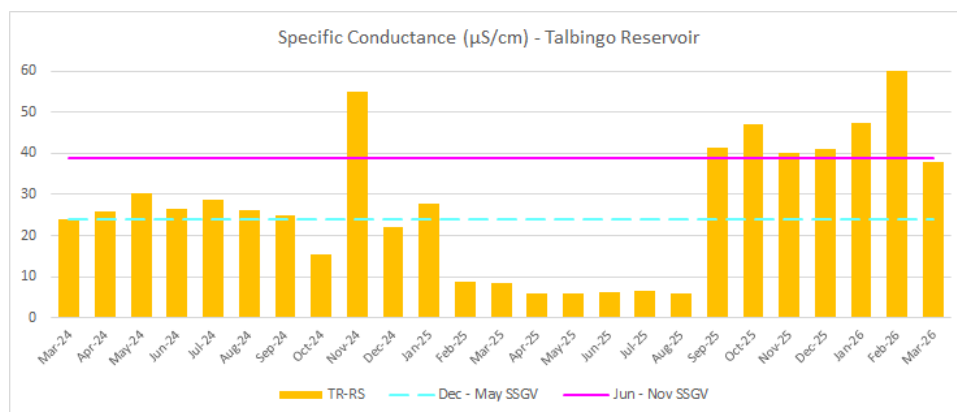


FIGURE 14: SPC FOR TALBINGO RESERVOIR

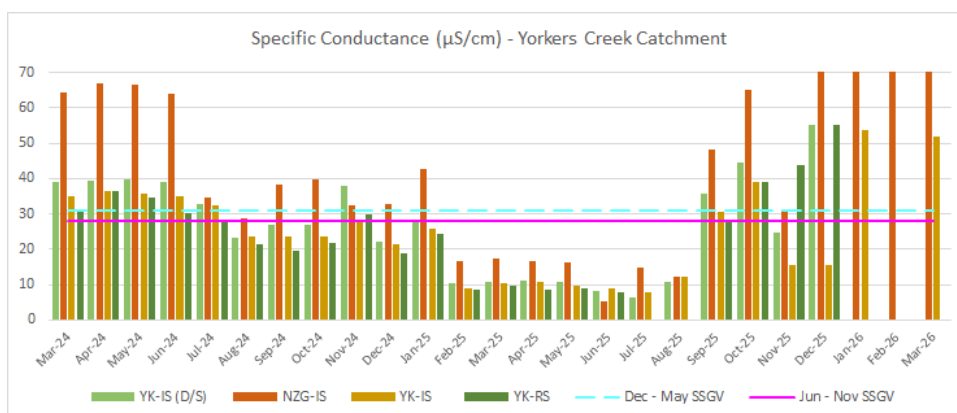


FIGURE 15: SPC FOR YORKERS CREEK CATCHMENT

5.2.1.5 Electrical Conductivity

In March 2026, Electrical Conductivity (EC, $\mu\text{S}/\text{cm}$) generally exhibited a reduction compared with February 2026 values. The December-May SSGV was exceeded at all sites, except WC-IS in Yarrangobilly River Catchment, which was below the SSGV (Figure 16-Figure 18).

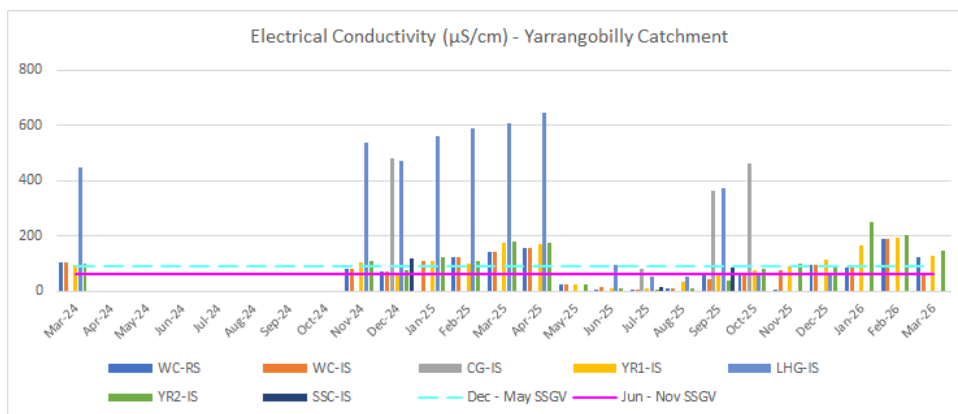


FIGURE 16: EC FOR YARRANGOBILLY RIVER CATCHMENT

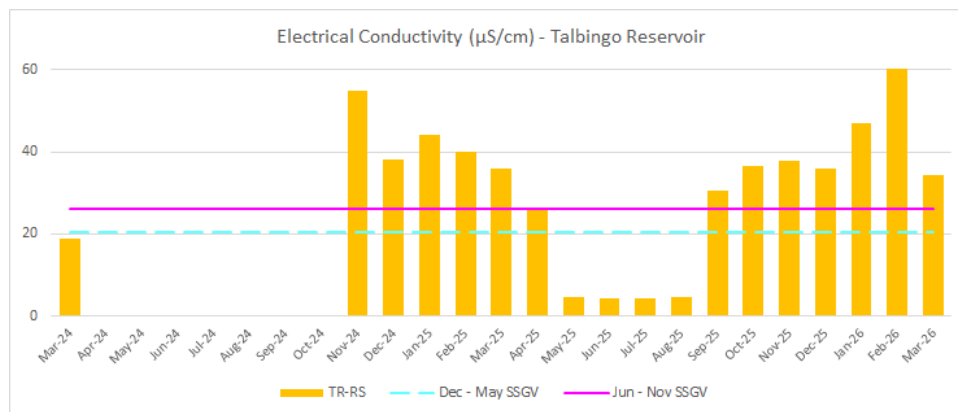


FIGURE 17: EC FOR TALBINGO RESERVOIR

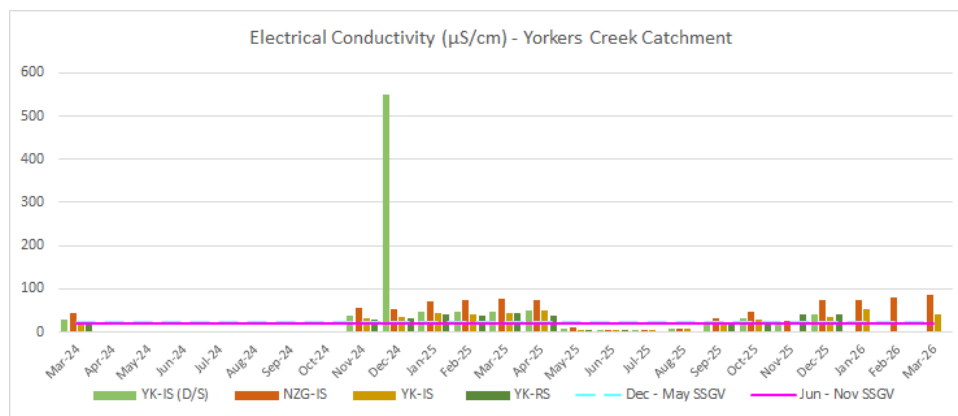


FIGURE 18: EC FOR YORKERS CREEK CATCHMENT

5.2.1.6 Turbidity

In March 2026, results for turbidity (NTU) were above the December-May SSGV at all sampled sites across all three catchments (Yarrangobilly River Catchment, Talbingo Reservoir, Yorkers Creek Catchment), except NZG-IS, which was below the SSGV, (Figure 19—Figure 21).

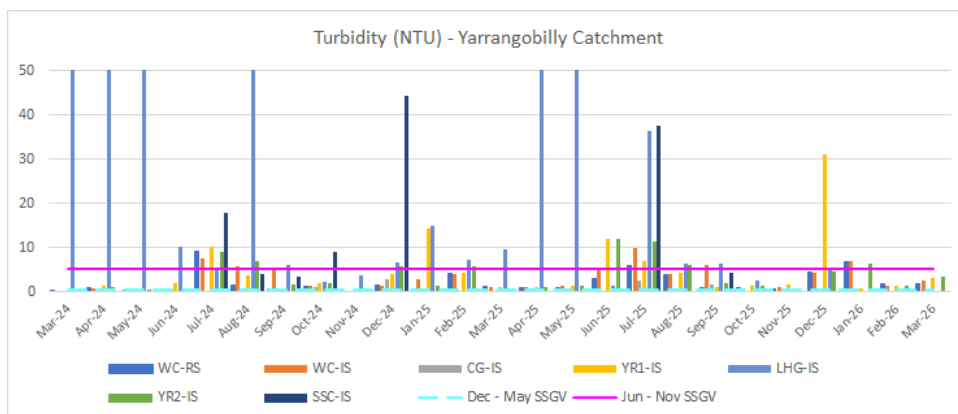


FIGURE 19: TURBIDITY FOR YARRANGOBILLY RIVER CATCHMENT

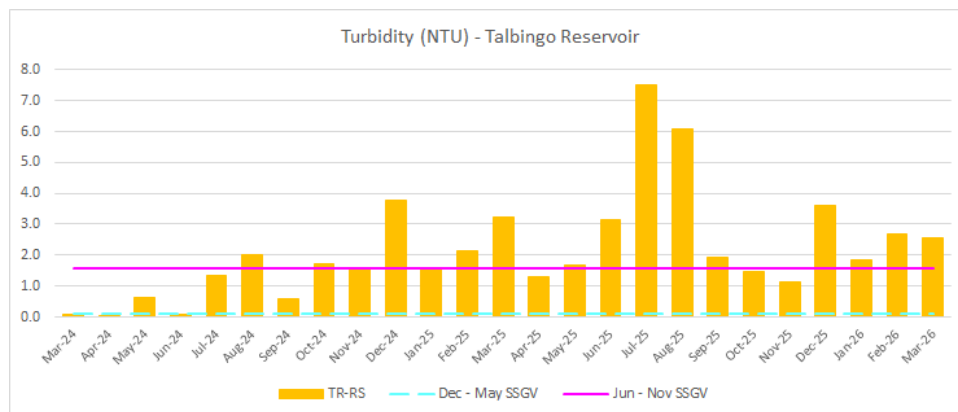


FIGURE 20: TURBIDITY FOR TALBINGO RESERVOIR

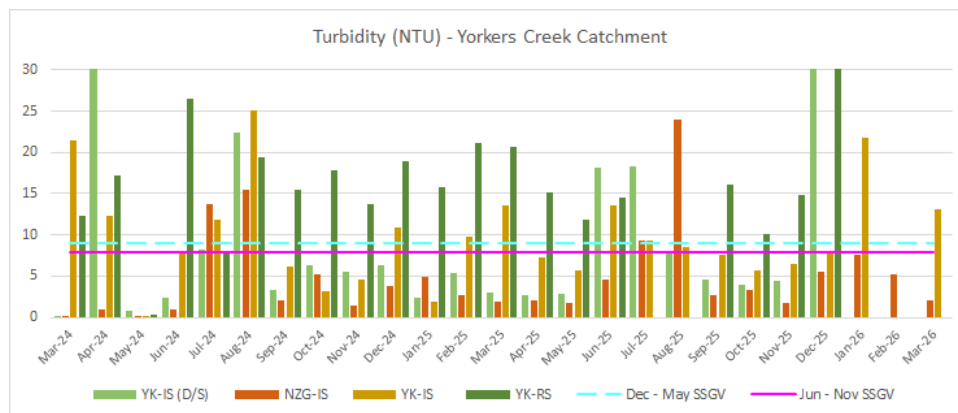


FIGURE 21: TURBIDITY FOR YORKERS CREEK CATCHMENT

5.2.1.7 Total Suspended Solids

Total Suspended Solids (TSS, mg/L) values were below the LOR at all sites during the sampling period in March 2026, except YK-IS in Yorkers Creek Catchment, which nominally exceeded the December - May SSGV, refer Figure 22-Figure 24.

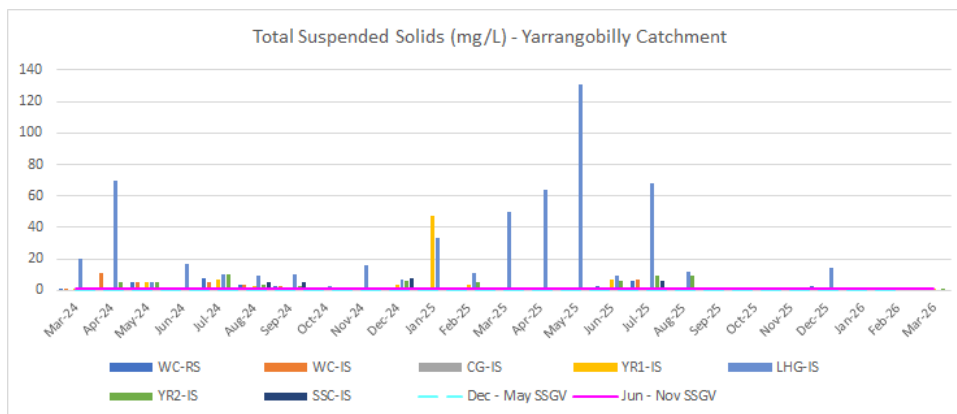


FIGURE 22: TSS FOR YARRANGOBILLY RIVER CATCHMENT

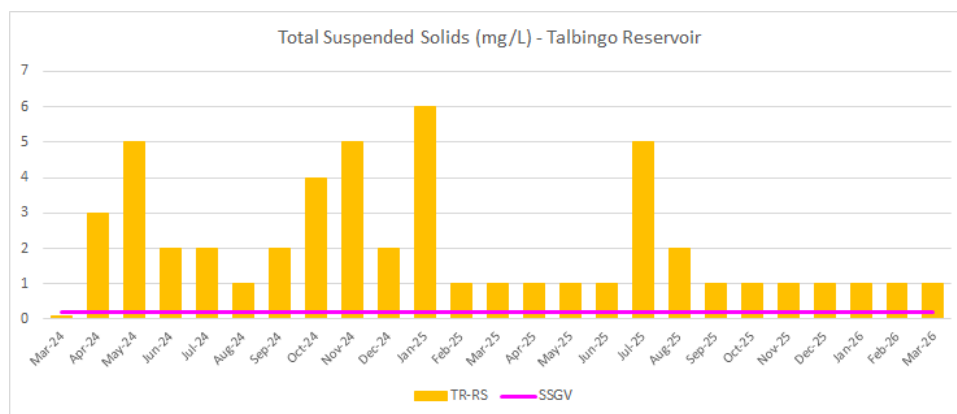


FIGURE 23: TSS FOR TALBINGO RESERVOIR

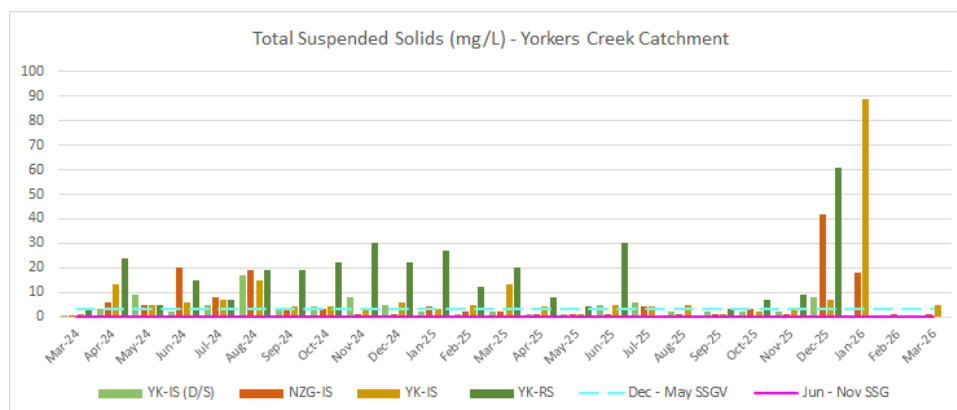


FIGURE 24: TSS FOR YORKERS CREEK CATCHMENT

5.2.1.8 Total Dissolved Solids

Total Dissolved Solids (mg/L) values during the March 2026 sampling period exceeded the December-May SSGV at all sites (Figure 25-Figure 27).

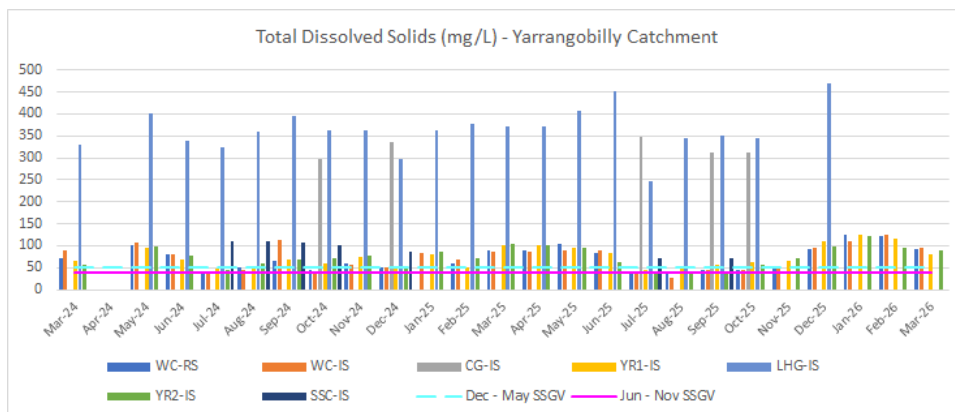


FIGURE 25: TDS FOR YARRANGOBILLY RIVER CATCHMENT

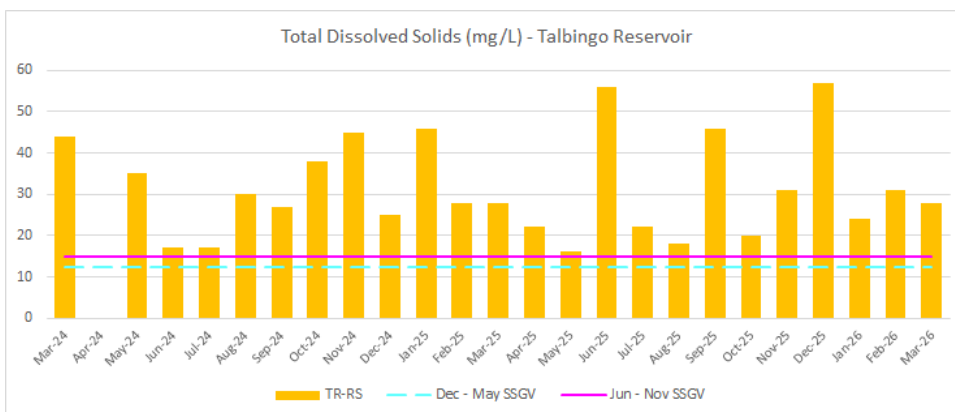


FIGURE 26: TDS FOR TALBINGO RESERVOIR

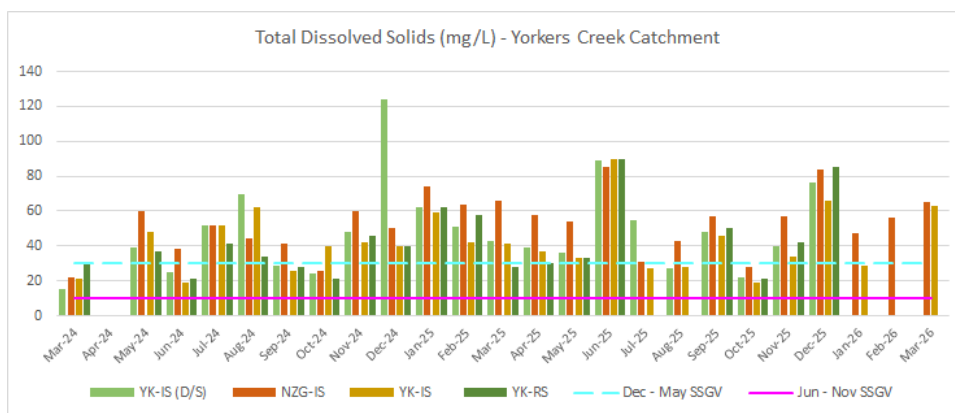


FIGURE 27: TDS FOR YORKERS CREEK CATCHMENT

5.2.1.9 Redox

Redox (mV) results at all sites across all catchments (Yarrangobilly River Catchment, Talbingo Reservoir, Yorkers Creek Catchment) exceeded the December-May SSGV during the March 2026 sampling period (Figure 28-Figure 29).

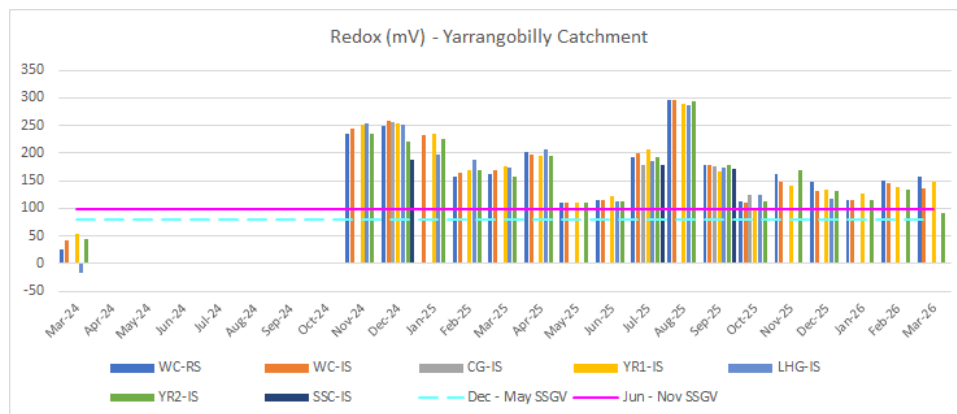


FIGURE 28: REDOX FOR YARRANGOBILLY RIVER CATCHMENT

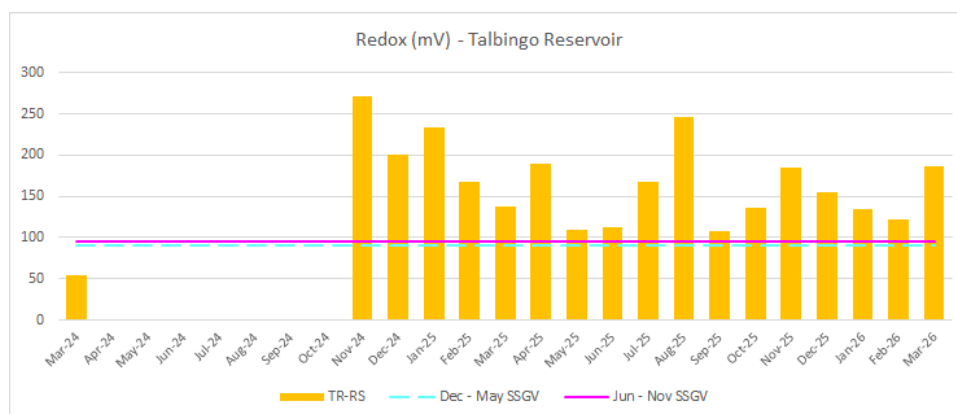


FIGURE 29: REDOX FOR TALBINGO RESERVOIR

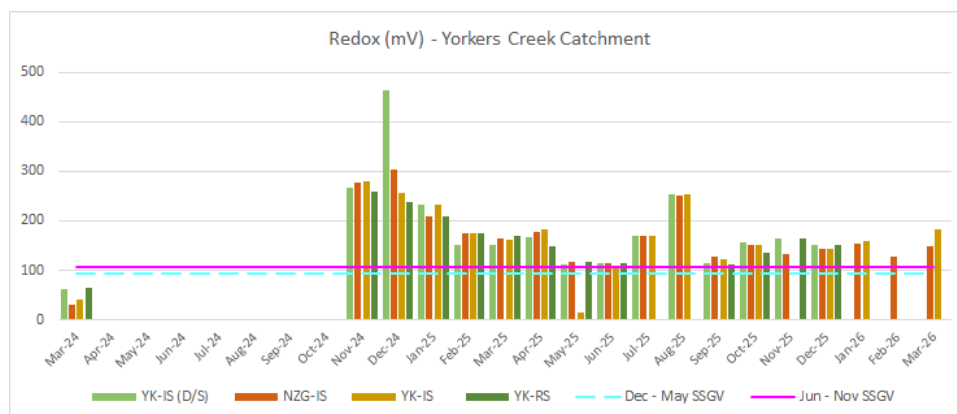


FIGURE 30: REDOX FOR YORKERS CREEK CATCHMENT

5.2.1.10 Nitrogen Oxides

Nitrogen Oxides (mg/L) levels marginally exceeded the December-May SSGV at all sites during the March 2026 sampling period, except YR1-IS in Yarrangobilly River Catchment and YK-IS in Yorkers Creek Catchment, which were below the LOR (Figure 31 — Figure 33).

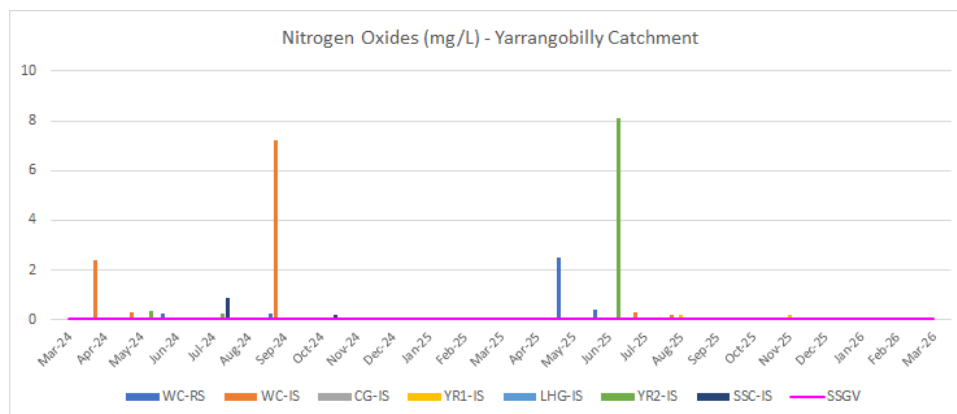


FIGURE 31: NITROGEN OXIDES FOR YARRANGOBILLY RIVER CATCHMENT

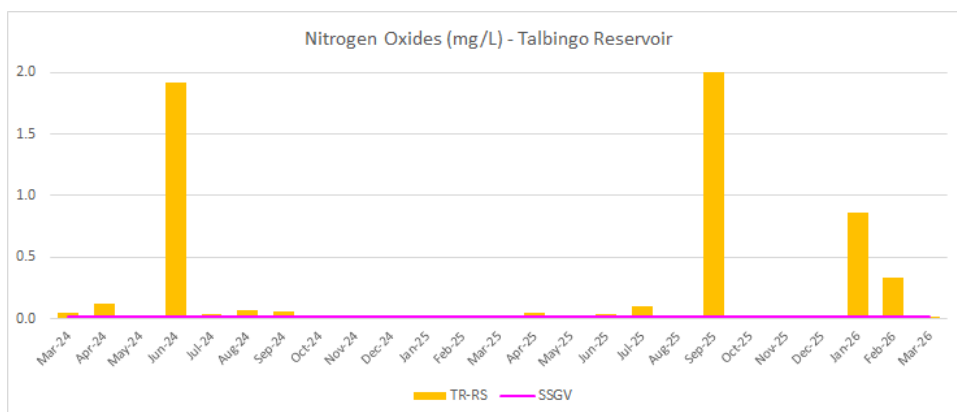


FIGURE 32: NITROGEN OXIDES FOR TALBINGO RESERVOIR

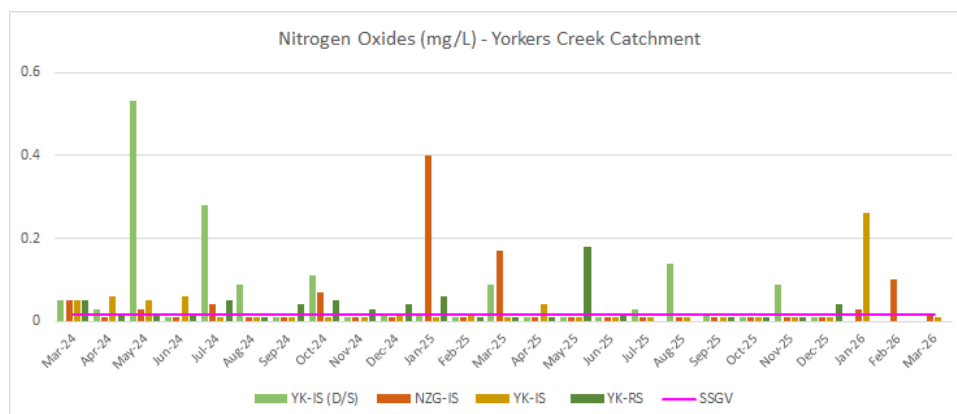


FIGURE 33: NITROGEN OXIDES FOR YORKERS CREEK CATCHMENT

5.2.1.11 Ammonia

Ammonia (mg/L) concentrations for the March 2026 sampling period exceeded the December-May SSGV at WC-IS and YR2-IS in Yarrangobilly River Catchment, the reference site TR-RS at Talbingo Reservoir and YK-IS in Yorkers Creek Catchment (Figure 34 – Figure 36). All other sites were below the LOR.

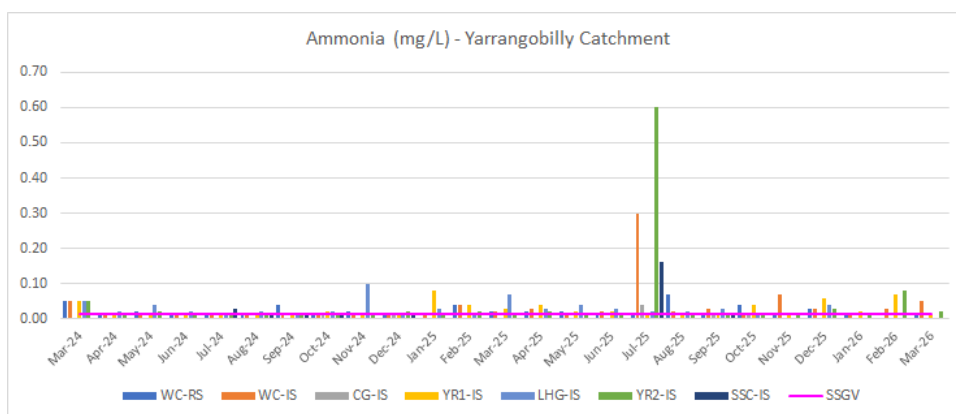


FIGURE 34: AMMONIA FOR YARRANGOBILLY RIVER CATCHMENT

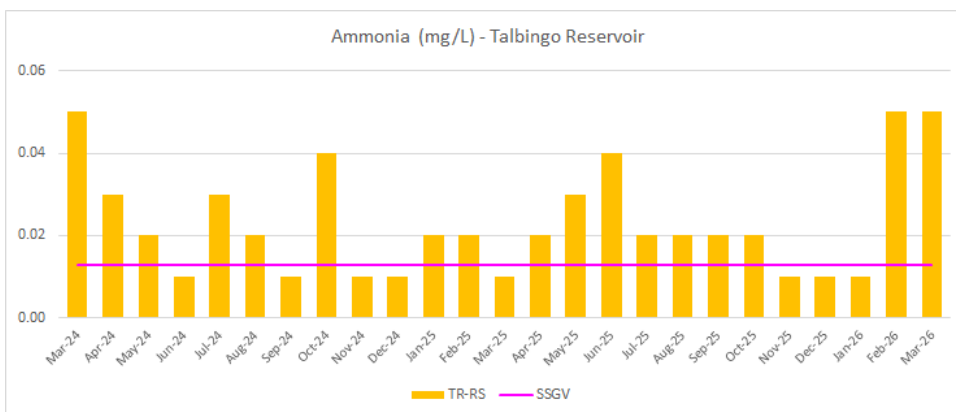


FIGURE 35: AMMONIA FOR TALBINGO RESERVOIR

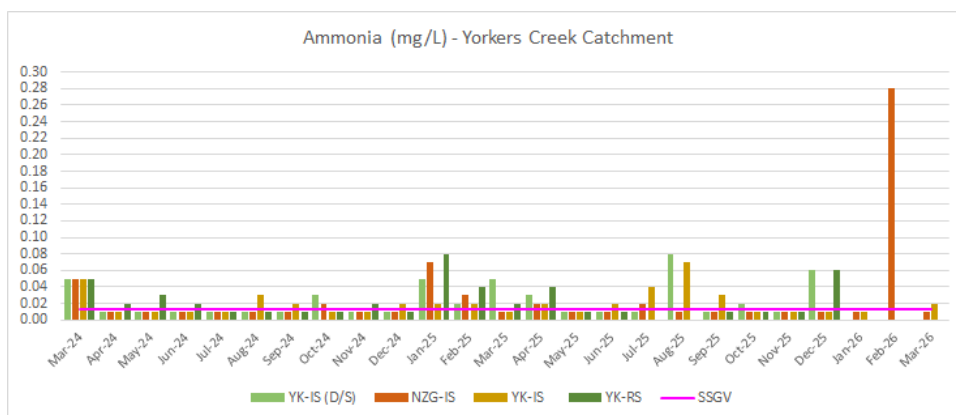


FIGURE 36: AMMONIA FOR YORKERS CREEK CATCHMENT

5.2.1.12 Cyanide

Cyanide (mg/L) concentrations were below the LOR at all sites across all three catchments, refer Figure 37 to Figure 38.

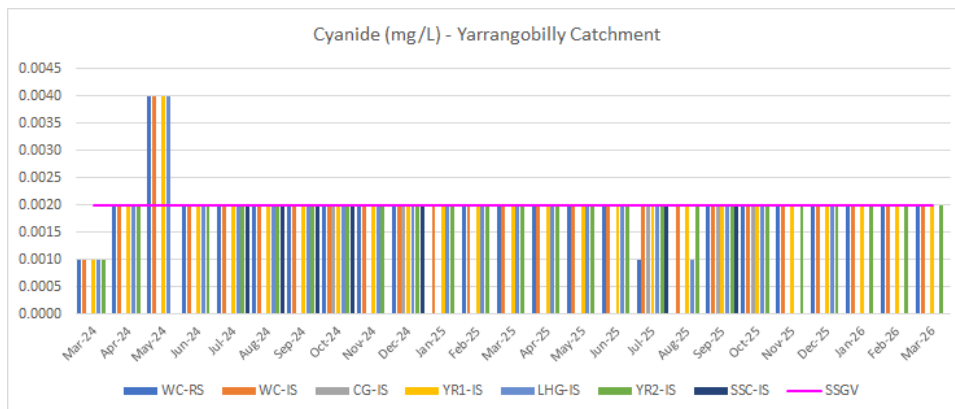


FIGURE 37: CYANIDE FOR YARRANGOBILLY RIVER CATCHMENT

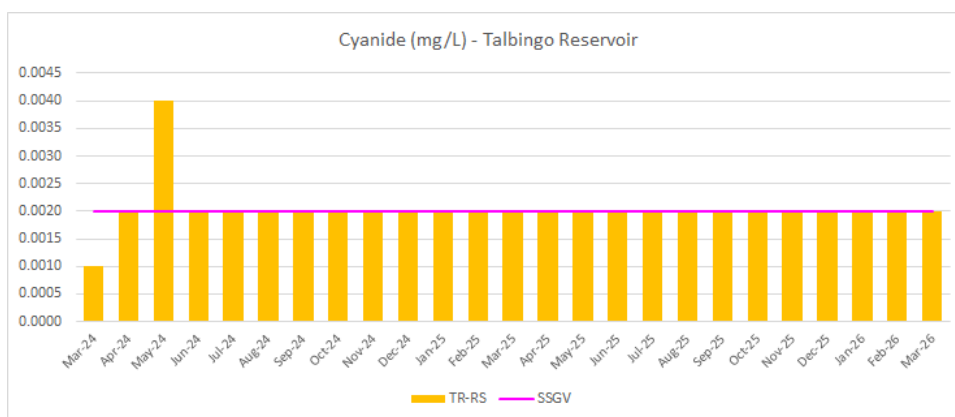


FIGURE 38: CYANIDE FOR TALBINGO RESERVOIR

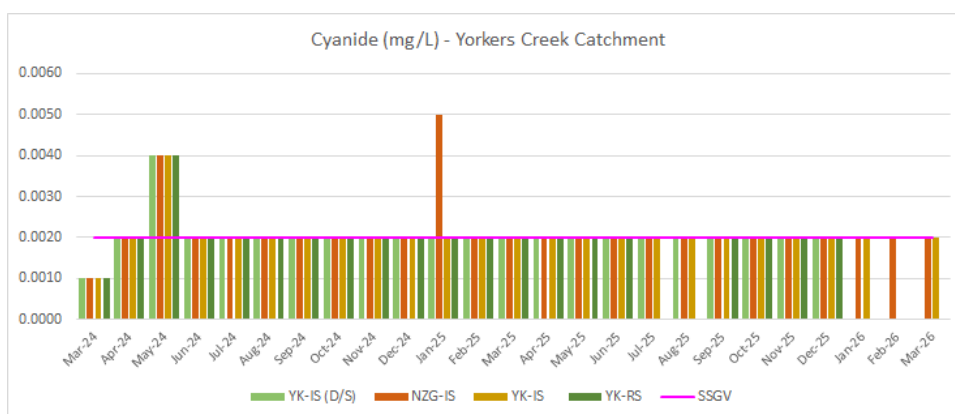


FIGURE 38: CYANIDE FOR YORKERS CREEK CATCHMENT

5.2.1.13 Total Hardness

March 2026 Total Hardness (mg/L) values generally decreased compared with February 2026 (Figure 40-Figure 42). All sampled sites exceeded the December-May SSGV.

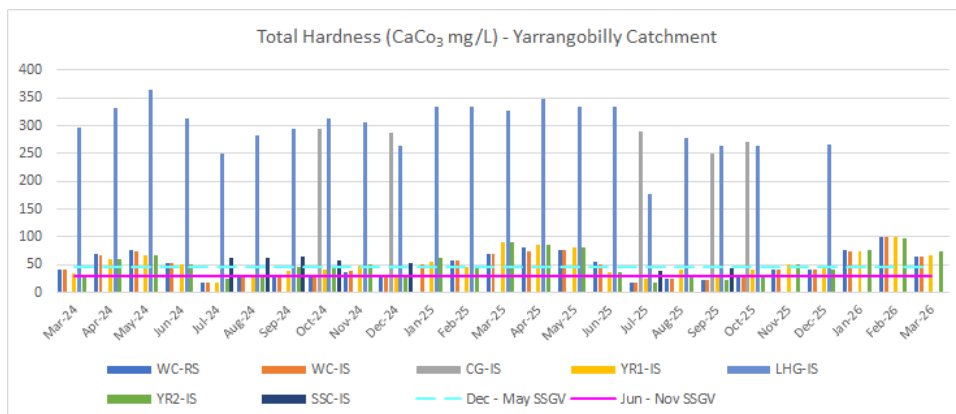


FIGURE 39: CaCO₃ FOR YARRANGOBILLY RIVER CATCHMENT

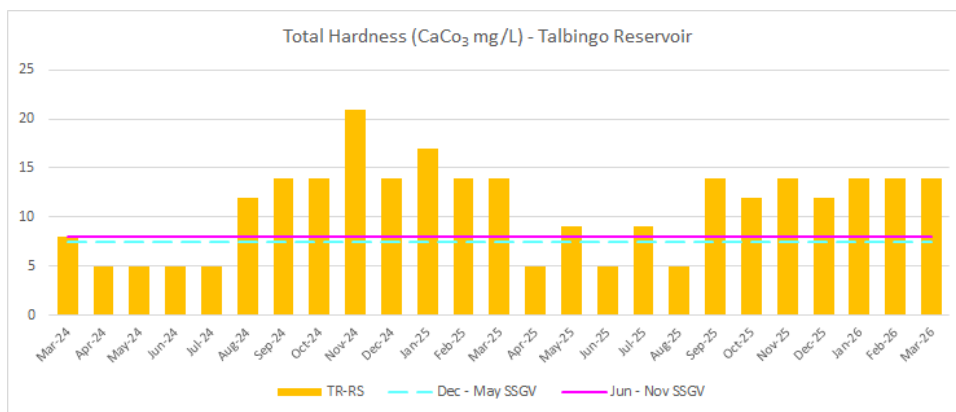


FIGURE 40: CaCO₃ FOR TALBINGO RESERVOIR

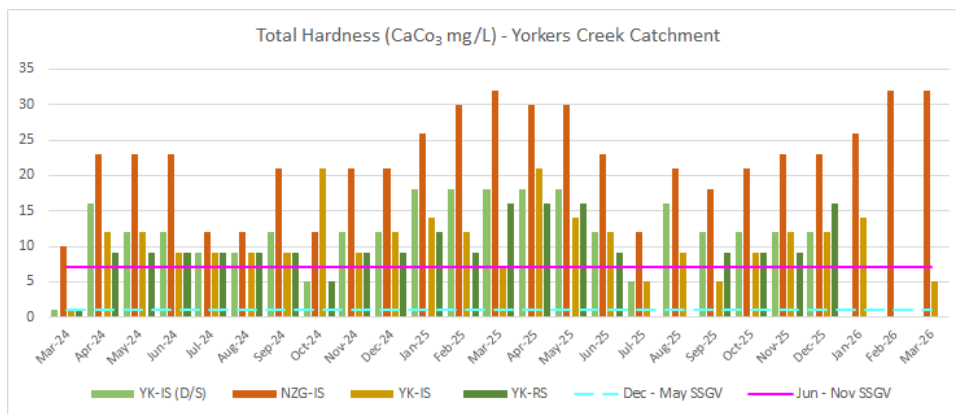


FIGURE 41: CaCO₃ FOR YORKERS CREEK CATCHMENT

5.2.1.14 Total Kjeldahl Nitrogen

During the March 2026 sampling period, Total Kjeldahl (mg/L) varied across the catchments. In Yarrangobilly River Catchment, all sites were on-par with the December-May SSGV or below the LOR, except YR2-IS, which exceeded the SSGV (Figure 43). The reference site at Talbingo Reservoir (TR-RS), and two impact sites at Yorkers Creek Catchment (NZG-IS, YK-IS) also exceeded the December – May SSGV (Figure 44-Figure 45).

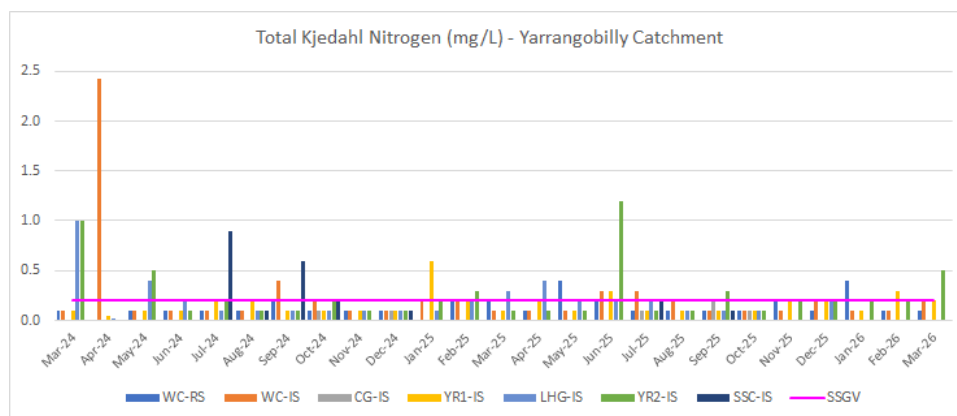


FIGURE 42: TKN FOR YARRANGOBILLY RIVER CATCHMENT

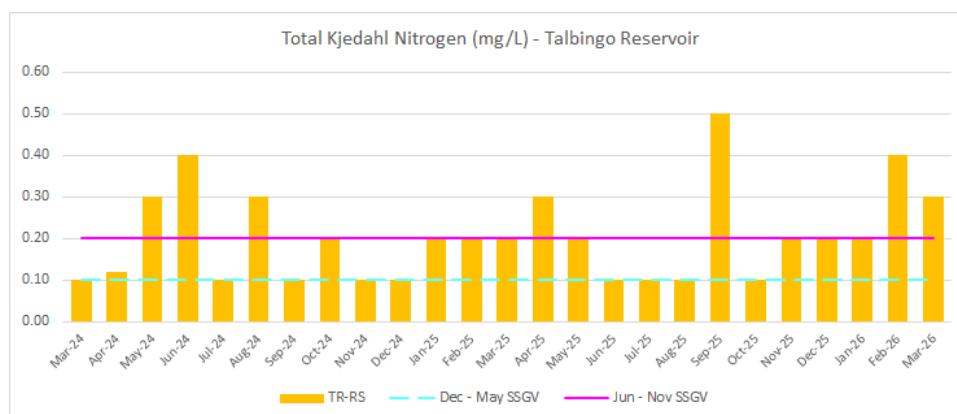


FIGURE 43: TKN FOR TALBINGO RESERVOIR

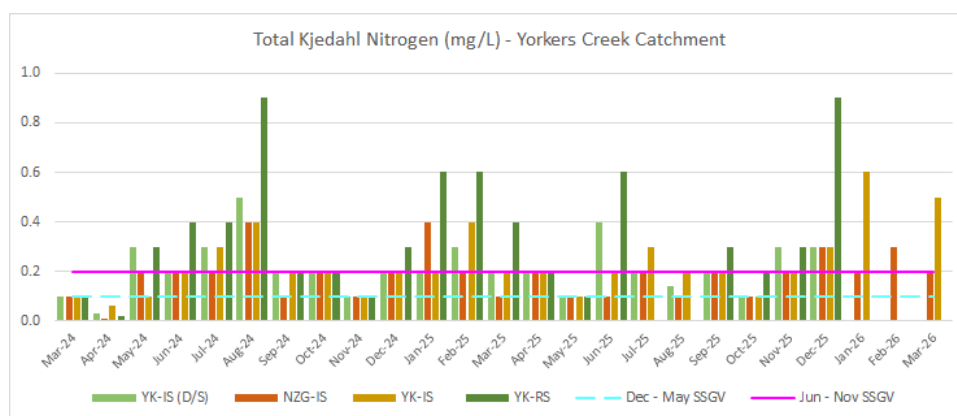


FIGURE 44: TKN FOR YORKERS CREEK CATCHMENT

5.2.1.15 Total Nitrogen

TN (mg/L) results varied across the three catchments. In Yarrangobilly River Catchment, all sites were on-par with the December-May SSGV or below the LOR, except YR2-IS, which exceeded the SSGV (Figure 46). Talbingo Reservoir (TR-RS) and YK-IS in Yorkers Creek Catchment both exceeded the December - May SSGV (Figure 47-Figure 48).

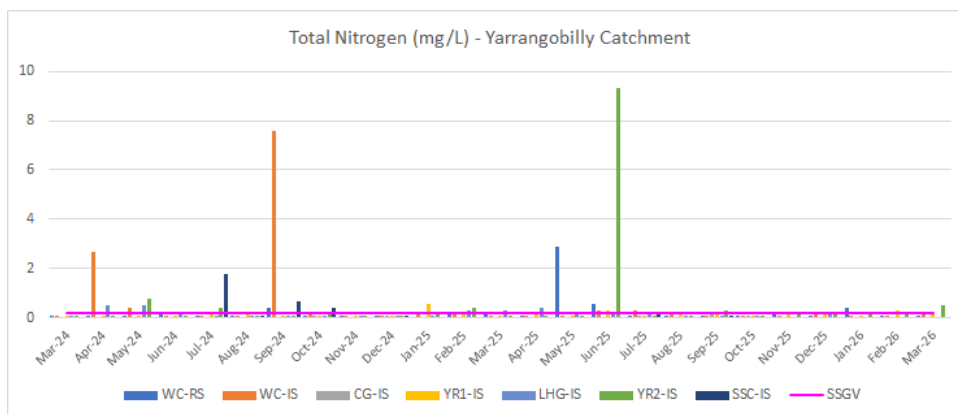


FIGURE 45: TN FOR YARRANGOBILLY RIVER CATCHMENT

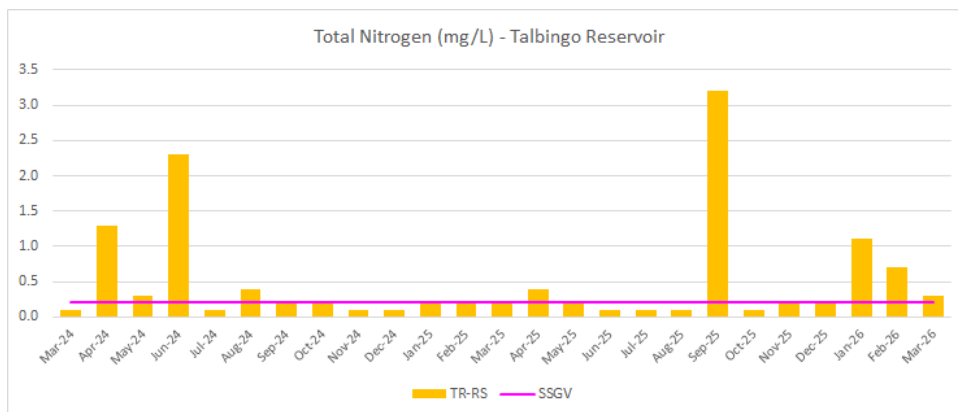


FIGURE 46: TN FOR TALBINGO RESERVOIR

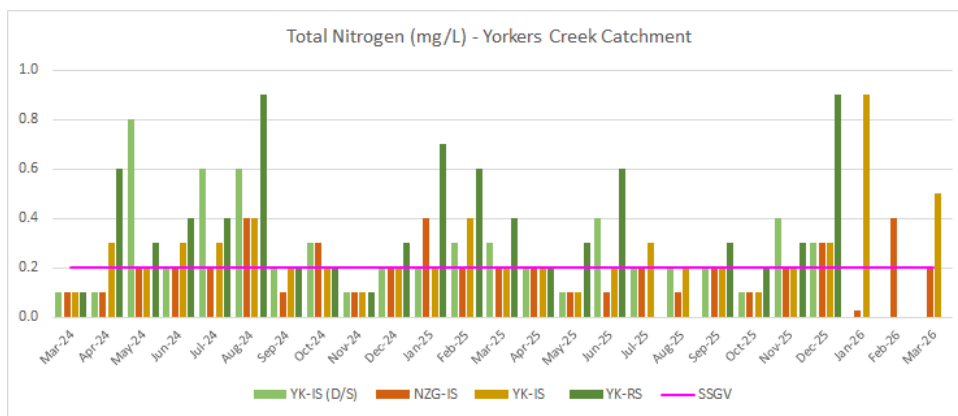


FIGURE 47: TN FOR YORKERS CREEK CATCHMENT

5.2.1.16 Total Phosphorus

During the March 2026 sampling period, Total Phosphorus (mg/L) SSGV exceedance was recorded at WC-RS, YR1-IS and YR2-IS in Yarrangobilly River Catchment (Figure 49). Talbingo Reservoir (TR-RS) recorded a value below the LOR (Figure 50). At Yorkers Creek Catchment, NZG-IS exceeded the December – May SSGV, and a notable exceedance was recorded at YK-IS (Figure 51).

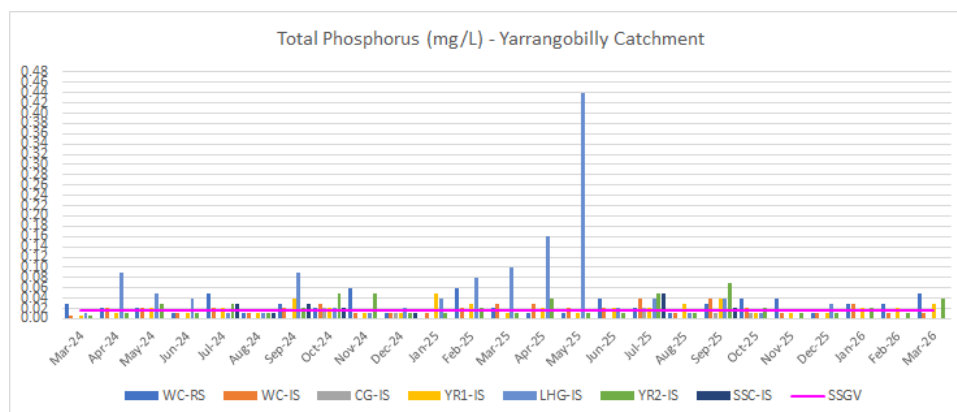


FIGURE 48: TP FOR YARRANGOBILLY RIVER CATCHMENT

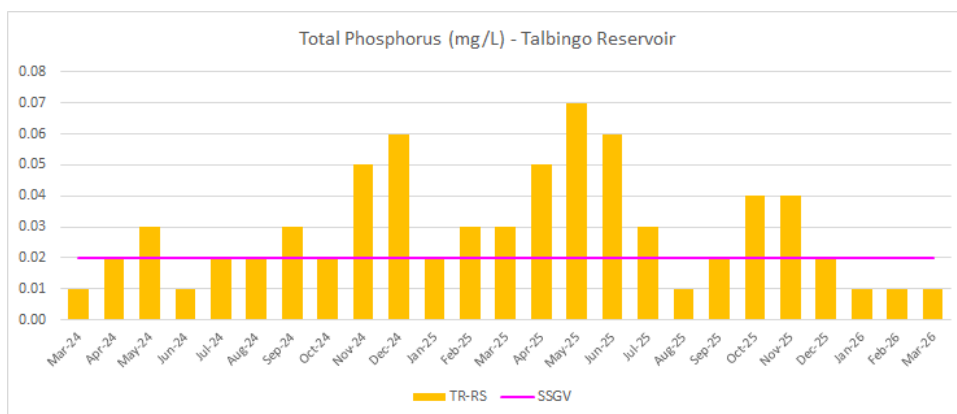


FIGURE 49: TP FOR TALBINGO RESERVOIR

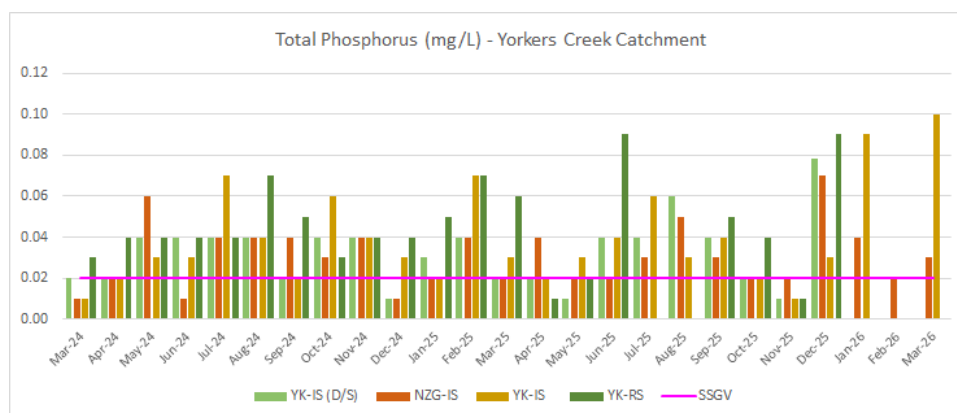


FIGURE 50: TP FOR YORKERS CREEK CATCHMENT

5.2.1.17 Reactive Phosphorus

All sites measured below the LOR for RP (mg/L), except NZG-IS in Yorkers Creek Catchment, which recorded a value on-par with the December-May SSGV during the March 2026 sampling period (Figure 51 - Figure 53).

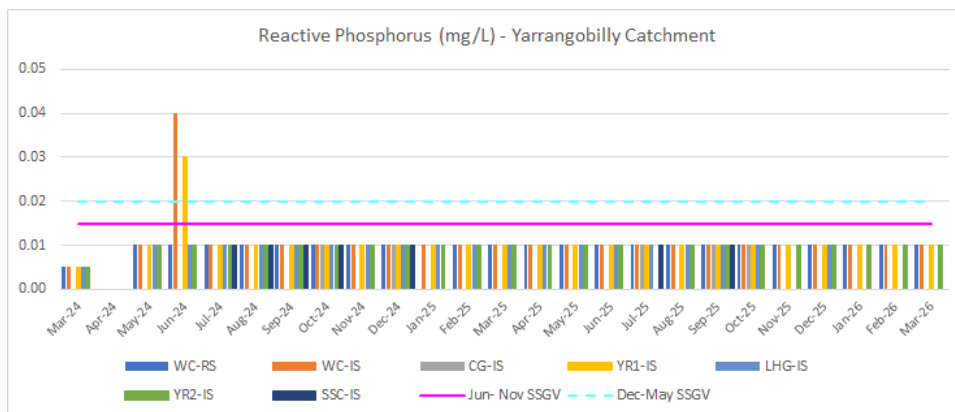


FIGURE 51: RP FOR YARRANGOBILLY RIVER CATCHMENT

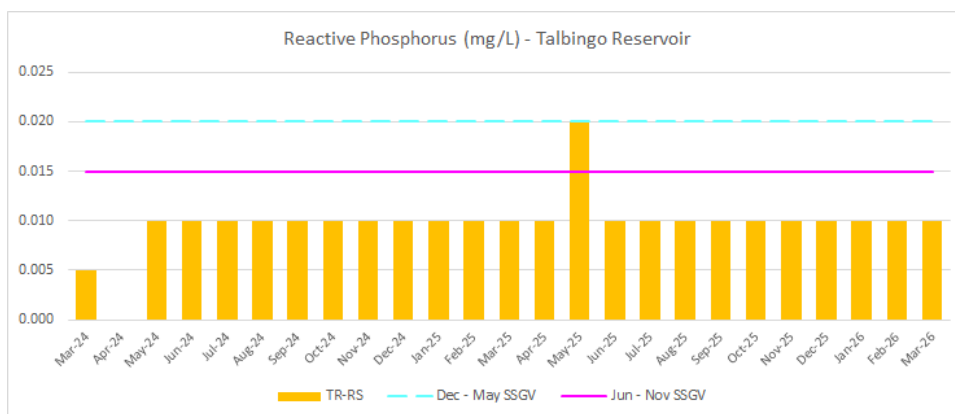


FIGURE 52: RP FOR TALBINGO RESERVOIR

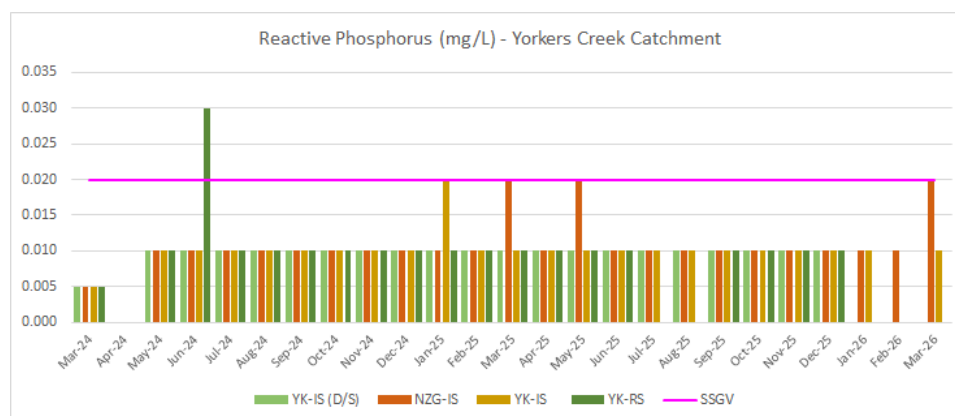


FIGURE 53: RP FOR YORKERS CREEK CATCHMENT

5.2.2 Dissolved Metals

Dissolved metals exceeding the relevant SSGV are listed in Table 4.

Table 4: Results for Dissolved Metals

DISSOLVED METALS RESULTS				
Analyte	Site	Result (mg/L)	SSGV (mg/L)	Comment
Fe	YK-IS	0.54	0.41	During the March 2026 sampling period, the December-May SSGV for Dissolved Fe (mg/L) was exceeded at YK-IS in Yorkers Creek Catchment.
Mn	WC-RS	0.009	0.002	Dissolved Mn (mg/L) values for the March 2026 sampling period exceeded the December -May SSGV at several sites across Yarrangobilly River Catchment and Yorkers Creek Catchment.
	WC-IS	0.007		
	YR2-IS	0.004		
	NZG-IS	0.007	0.005	
	YK-IS	0.057		
Zn	WC-RS	0.011	0.002	The December-May SSGV value for Zn of 0.002mg/L was exceeded at the reference site (WC-RS) and one impact site (YR1-IS) in Yarrangobilly River Catchment.
	YR1-IS	0.012		

5.2.3 Total Metals

Total metals exceeding the DGV are listed in Table 5.

Table 5: Results for Total Metals

TOTAL METALS RESULTS				
Analyte	Site	Result (mg/L)	DGV (mg/L)	Comment
Al	YR1-IS	0.05	0.027	Several sites exceeded the DGV value for Total Al (0.027mg/L, with a notable exceedance of 1.47 mg/L recorded at YK-IS in Yorkers Creek Catchment.
	YR2-IS	0.06		
	TR-RS	0.04		
	NZG-IS	0.08		
	YK-IS	1.47		
Cr	YK-IS	0.002	0.00001	During the March 2026 sampling period, Total Cr (0.00001mg/L) exceeded the DGV value at YK-IS in Yorkers Creek Catchment.
Zn	WC-RS	0.011	0.0024	The DGV value for Zn (0.0024mg/L) was exceeded at the reference site (WC-RS) and two impact sites (YR1-IS, YR2-IS) at Yarrangobilly River Catchment and YK-IS in Yorkers Creek Catchment.
	YR1-IS	0.012		
	YR2-IS	0.019		
	YK-IS	0.213		
Fe	YK-IS	1.71	0.3	A notable exceedance of the DGV value for Fe (0.3mg/L) was recorded at YK-IS in Yorkers Creek Catchment.

6 DISCUSSION

Below is a summary of key observations and discussion points from the March 2026 monitoring results:

- Potential impacts to SWQ:
 - » Transmission line clearing and bulk earthworks activities were ongoing within the Yarrangobilly and Yorkers Creek catchment areas
 - » Impact sites within the Yarrangobilly River catchment are influenced by other activities associated with the Snowy 2.0
 - » TR-RS is located in O'Hares Campground, a popular public recreational area for water based activities including boating. It is also located adjacent to ancillary infrastructure associated with Talbingo Reservoir
 - » Many reference sites and impact sites are located adjacent to publicly accessible tracks used for maintenance and recreational activities
 - » Hoof marks, fauna scats and aquatic fauna indicate presence of fauna in and around waterways increasing potential for erosion of banks and sedimentation into waterways
 - » Vegetative debris and materials in the water have potential to leach nutrients into waterways
 - » Existing eroded banks increase potential for sedimentation into waterways
 - » Waterways with shallow water depth are more prone to SWQ impacts due to lack of volume
 - » Overhanging vegetation has potential to fall into waterways and influence water parameters
 - » Vegetation cover along the riparian zone can influence the stability of the banks and groundwater which in turn may influence the waterways
- Sampling and analysis:
 - » Many of the results were recorded as below (<) the LOR
 - » Analysis of some parameters were inconclusive as the SSGV/DGV for a number of parameters was lower than the LOR from the laboratory
 - » Shallow water depth at sampling sites increased difficulty of sampling without disturbing bed
 - » Redox (mV), RP (mg/L) and DO (ppm) were analysed outside their respective holding times which may have decreased reliability of results
 - » A number of monitoring locations (SSC-IS, LHG-IS, YK-RS, YK-IS (D/S)) were dry or had no flow, limiting the spatial extent of sampling during this monitoring period.
- SWQ parameters:
 - » Since March 2024, sites across all three catchments (Yarrangobilly River, Talbingo Reservoir and Yorkers Creek), including reference sites, have consistently exceeded SSGV/DGV for several parameters including CaCO₃, TDS, redox and, at times, EC and SPC. This ongoing trend continues to be observed in the March 2026 monitoring results.

- » Since March 2024, Talbingo Reservoir has consistently exceeded the relevant SSGV/DGV for the following parameters: DO, pH, turbidity, ammonia, nitrogen oxides, CaCO_3 , TSS, TDS, redox and total Al
- » In March 2026, temperatures decreased across the Yarrangobilly River and Yorkers Creek catchments, while Talbingo Reservoir recorded a slight increase.
- » pH values exceeded the December–May SSGV across all sites in the Yarrangobilly River catchment. At Talbingo Reservoir, pH remained below the SSGV, while results in the Yorkers Creek catchment were variable.
- » DO (%) levels reduced across most sites compared to February 2026 and remained below SSGV at all locations.
- » SPC and EC values exceeded the December–May SSGV at most sites, although a reduction compared to February 2026 was observed.
- » Turbidity exceeded SSGV at most sites, except NZG-IS. However, TSS values were below the LOR at all sites except YK-IS, which recorded a marginal exceedance.
- » TDS exceeded SSGV across all sites, while total hardness (CaCO_3) remained above SSGV despite a reduction compared to February 2026.
- » Redox values exceeded SSGV across all sites, consistent with previous monitoring events.
- » Nitrogen oxides marginally exceeded SSGV at most sites.
- » Ammonia exceeded SSGV at WC-IS, YR2-IS, TR-RS and YK-IS.
- » TKN and TN exceedances were recorded at YR2-IS, TR-RS and sites within Yorkers Creek catchment.
- » Total phosphorus exceeded SSGV at multiple sites within Yarrangobilly River catchment and Yorkers Creek catchment.
- » Reactive phosphorus remained below the LOR at most sites
- » Dissolved Mn exceeded SSGV across multiple sites in Yarrangobilly River and Yorkers Creek catchments.
- » Dissolved Fe exceeded SSGV at YK-IS.
- » Dissolved Zn exceeded SSGV at WC-RS and YR1-IS.
- » Total Al exceeded DGV at multiple sites, with a significant exceedance at YK-IS.
- » Total Cr exceeded DGV at YK-IS.
- » Total Zn exceeded DGV at several sites.
- » A notable exceedance of total Fe was recorded at YK-IS.
- » Presence of aquatic vegetation, detritus and fauna activity indicates waterways continue to support ecological function.
- » No evidence of excessive algal growth was observed, suggesting no significant eutrophication at the time of monitoring.

7 CONCLUSION

Monthly construction SWQ monitoring was undertaken on 8 March 2026 in accordance with EPL 21753 and the revised methodology outlined in Section 3. Monitoring was completed at available flowing locations within the Yarrangobilly River, Talbingo Reservoir and Yorkers Creek catchments.

Several monitoring locations were dry or had no flow at the time of sampling, limiting the spatial extent of the monitoring program during this period. Where sampling was undertaken, key physical and chemical parameters and metals (both dissolved and total) were analysed and compared against the relevant SSGV and DGV.

The March 2026 monitoring results indicate that multiple parameters exceeded the applicable SSGV and DGV, including specific conductance (SPC), electrical conductivity (EC), turbidity (at most sites), total dissolved solids (TDS), total hardness (CaCO_3), redox, nitrogen species, ammonia and selected dissolved and total metals (notably Mn, Fe, Zn, Al and Cr at isolated locations).

Exceedances of SPC, EC, TDS and CaCO_3 were observed across both reference and impact sites, consistent with historical monitoring trends and indicative of broader catchment influences such as natural geochemical conditions and reduced dilution capacity associated with low flow environments.

Elevated turbidity was recorded across most sites; however, total suspended solids (TSS) were below the LOR at the majority of locations, suggesting that increases in turbidity are likely associated with fine suspended or colloidal material rather than significant mobilisation of coarse sediment.

Nutrient variability, including exceedances of ammonia, TKN, TN and total phosphorus at selected sites, is likely influenced by organic matter, fauna activity and localised disturbance within the catchment. Variability in dissolved oxygen and pH across the catchments further reflects natural seasonal conditions and biological processes.

Dissolved and total metal exceedances were recorded across several sites, including reference locations, indicating a strong influence from natural background concentrations. Notable exceedances at YK-IS are consistent with observed site conditions, including low flow, organic material accumulation and potential sediment inputs.

Despite the exceedances observed, field observations confirmed the presence of aquatic vegetation and evidence of fauna across multiple monitoring locations, indicating that waterways continue to support aquatic ecosystems.

In summary, the March 2026 monitoring results are consistent with ongoing trends observed throughout the construction phase and reflect the combined influence of seasonal variability, natural catchment conditions and low flow environments. While some localised impacts associated with disturbed ground and bank instability were identified, there is no clear evidence to indicate that construction activities are the primary driver of the water quality trends observed during the March 2026 monitoring period.

REFERENCES

- ALS. (2025a). ES2504313. *Certificate of Analysis*. NSW, Australia: ALS Limited.
- ALS. (2025b). ES2504313. *QA/QC Compliance Assessment to assist with Quality Review*. NSW, Australia: ALS Limited.
- ALS. (2025c). ES2504313. *Quality Control Report*. NSW, Australia: ALS Limited.
- ANZG. (2018). *Australian and New Zealand Guidelines for Fresh and Marine Water Quality*. ACT, Australia: Australian and New Zealand Governments and Australian state and territory governments.
- Jacobs. (2020). *Environmental Impact Statement*. NSW: Transgrid.
- NGH. (2022). *Pre-construction Water Quality Monitoring Program and Methodology*. NSW: NGH Pty Ltd.
- NGH. (2024). *Baseline Water Quality Report*. NSW: NGH Pty Ltd.
- UGL. (2025). October 2025. *Water Quality Monitoring Field Data Sheet*. NSW, Australia: UGL Limited.

Appendix A: Field Sheet (UGL, 2025)



WATER QUALITY MONITORING FIELD SHEET											
Date: 8-03-26		Personnel: LL + S.B					Sampling Purpose: March water				
Site	Time	Temp (°C)	Water Pressure (mmHg)	DO (%)	SPC (µS/cm)	pH	Turbidity (NTU)	TSS (mg/L)	EC (µS/cm)	Redox (mV)	Observations
DGV:		-	-	90 - 110	30 - 350	6.5 - 8	2 - 25	0.2	30-350	-	Weather Pre 24 hrs: 0mm rainfall
Dec - May SSGV:		-	-	96.2	115	7.85	0.37	0.2	93.2	79.1	Weather Forecast: 11-18°C
Jun - Nov SSGV:		-	-	89.7	88	7.62	5.12	1	60.85	98.4	Weather Time of Sampling: fine, sunny
WC-RS Wallace Creek	09:39	18.2	711.1	87.5	141.3	7.96	1.8	0	123.6	156.9	Running - moderate flow overhanging vegetation, clear bed, rocky Banks clear water
WC-IS Wallace Creek	09:51	18.3	711.3	87.2	68.9	8.03	2.54	0	60.8 68.7	135.8	Running - moderate flow overhanging vegetation, clear bed, rocky banks Bridge above downstream, clear water
GG-IS Cave Gully											DRY.

W

WATER QUALITY MONITORING FIELD SHEET

Date: 8.3.26		Personnel: LL + SVB					Sampling Purpose: March WQM				
Site	Time	Temp (°C)	Water Pressure (mmHg)	DO (%)	SPC (µS/cm)	pH	Turbidity (NTU)	TSS (mg/L)	EC (µS/cm)	Redox (mV)	Observations
DGV:		-	-	90 - 110	30 - 350	6.5 - 8	2 - 25	0.2	30-350	-	Weather Pre 24 hrs: 0mm rainfall
Dec - May SSGV:		-	-	96.2	115	7.85	0.37	0.2	93.2	79.1	Weather Forecast: 11-18°C
Jun - Nov SSGV:		-	-	89.7	88	7.62	5.12	1	60.85	98.4	Weather Time of Sampling: fine, sunny
YR1-IS Yarrangobilly River	10:25	20.0	711.8	90.3	141.5	8.20	3.20	0	128.2	146.5	fast flow clear bed overhanging blackberry rocky bed vegetation on banks, overhanging clear water
LHG-IS Lick Hole Gully											DRY.
YR2-IS Yarrangobilly River	13:20	23	712.9	90.6	152.4	8.18	3.39	0	146.5	90.7	Moderate flow clear bed, visible pebbles clear water adjacent to haul road bridge aquatic vegetation on bank

WATER QUALITY MONITORING FIELD SHEET

Date: 8.3.26 Personnel: LL + SVB Sampling Purpose: March WQM

Site	Time	Temp (°C)	Water Pressure (mmHg)	DO (%)	SPC (µS/cm)	pH	Turbidity (NTU)	TSS (mg/L)	EC (µS/cm)	Redox (mV)	Observations
DGV:	-	-	-	90 - 110	30 - 350	6.5 - 8	2 - 25	0.2	30-350	-	Weather Pre 24 hrs: 0mm rainfall
Dec - May SSGV:	-	-	-	96.2	115	7.85	0.37	0.2	93.2	79.1	Weather Forecast: 11-18°C
Jun - Nov SSGV:	-	-	-	89.7	88	7.62	5.12	1	60.85	98.4	Weather Time of Sampling: fine, sunny
SSC-IS Steep Station Creek											DRY.
TR-RS Talbingo Reservoir	09:18	19.9°	713.2	86.3	37.9	7.23	2.57	0	34.2	186.9	clear water lower level than usual slight flow rocky bank silty bed camfers in area.
YK-RS Yorkers Creek											DRY.

Date: 8.3.26	Personnel: LL + SVB	Sampling Purpose: March Wqm
--------------	---------------------	-----------------------------

Site	Time	Temp (°C)	Water Pressure (mmHg)	DO (%)	SPC (µS/cm)	pH	Turbidity (NTU)	TSS (mg/L)	EC (µS/cm)	Redox (mV)	Observations
DG:		-	-	90 - 110	30 - 350	6.5 - 8	2 - 25	0.2	30-350	-	Weather Pre 24 hrs: 0mm rainfall
Dec - May SSGV:		-	-	96.2	115	7.85	0.37	0.2	93.2	79.1	Weather Forecast: 11-18°C
Jun - Nov SSGV:		-	-	89.7	88	7.62	5.12	1	60.85	98.4	Weather Time of Sampling: fine, sunny
YK-IS (D/S) Yorkers Creek											DRY
NZG-IS New Zealand Gully	07:25	13.3	670	75.8	110.9	7.34	2.05	0	86.2	148	slight flow clear water overhanging vegetation evidence of fauna on banks silty bed
YK-IS Yorkers Creek	08:06	13.4°C	666.4	55.9	51.9	6.37	13.04	0	40.4	182.8	dark bed overhanging vegetation yellow tinge to water adjacent to Elliott Way and HLW work area. aquatic vegetation

Appendix B: COA (ALS, 2025a), QA/QC Assessment (ALS, 2025b) and QCR (ALS, 2025c)



CERTIFICATE OF ANALYSIS

Work Order	: ES2607287	Page	: 1 of 6
Amendment	: 1		
Client	: UGL LIMITED	Laboratory	: Environmental Division Sydney
Contact	: LAUREN LOGUE	Contact	: Customer Services ES
Address	: Level 4, 40 Miller Street North Sydney 2060	Address	: 277-289 Woodpark Road Smithfield NSW Australia 2164
Telephone	: ----	Telephone	: +61-2-8784 8555
Project	: UGL Maragle	Date Samples Received	: 11-Mar-2026 15:40
Order number	: 4501837828	Date Analysis Commenced	: 12-Mar-2026
C-O-C number	: 94999	Issue Date	: 23-Mar-2026 15:12
Sampler	: LAUREN LOGUE		
Site	: UGL Maragle		
Quote number	: ES24UGLLIM0001_V4		
No. of samples received	: 8		
No. of samples analysed	: 8		



Accreditation No. 825
Accredited for compliance with
ISO/IEC 17025 - Testing

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QA/QC Compliance Assessment to assist with Quality Review and Sample Receipt Notification.

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

Signatories	Position	Accreditation Category
Ankit Joshi	Senior Chemist - Inorganics	Sydney Inorganics, Smithfield, NSW

right solutions. right partner

Page : 2 of 6
 Work Order : ES2607287 Amendment 1
 Client : UGL LIMITED
 Project : UGL Maragle

General Comments

The analytical procedures used by ALS have been developed from established internationally recognised procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are fully validated and are often at the client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Where a result is required to meet compliance limits the associated uncertainty must be considered. Refer to the ALS Contract for details.

Key : CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.

LOR = Limit of reporting

^ = This result is computed from individual analyte detections at or above the level of reporting

ø = ALS is not NATA accredited for these tests.

~ = Indicates an estimated value.

- TDS by method EA-015 may bias high due to the presence of fine particulate matter, which may pass through the prescribed GF/C paper.
- Amendment (23/03/2026): This report has been amended as a result of a request to change sample identification numbers (IDs) received from Lauren Logue for sample 2. All analysis results are as per the previous report.
- Sodium Adsorption Ratio (where reported): Where results for Na, Ca or Mg are <LOR, a concentration at half the reported LOR is incorporated into the SAR calculation. This represents a conservative approach for Na relative to the assumption that <LOR = zero concentration and a conservative approach for Ca & Mg relative to the assumption that <LOR is equivalent to the LOR concentration.

Analytical Results

Sub-Matrix: SURFACE WATER (Matrix: WATER)				Sample ID	YK-IS	YR1-IS	WC-RS	WC-IS	YR2-IS
Sampling date / time					08-Mar-2026 14:22	08-Mar-2026 14:19	08-Mar-2026 14:31	08-Mar-2026 14:28	08-Mar-2026 14:29
Compound	CAS Number	LOR	Unit		ES2607287-001	ES2607287-002	ES2607287-003	ES2607287-004	ES2607287-005
					Result	Result	Result	Result	Result
EA015: Total Dissolved Solids dried at 180 ± 5 °C									
Total Dissolved Solids @180°C	----	10	mg/L		63	81	91	95	88
EA025: Total Suspended Solids dried at 104 ± 2°C									
Suspended Solids (SS)	----	1	mg/L		5	<1	<1	<1	<1
ED093F: SAR and Hardness Calculations									
Total Hardness as CaCO3	----	1	mg/L		14	66	65	65	75
EG020F: Dissolved Metals by ICP-MS									
Aluminium	7429-90-5	0.01	mg/L		0.14	0.02	<0.01	<0.01	0.02
Arsenic	7440-38-2	0.001	mg/L		<0.001	<0.001	<0.001	<0.001	<0.001
Cadmium	7440-43-9	0.0001	mg/L		<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Chromium	7440-47-3	0.001	mg/L		<0.001	<0.001	<0.001	<0.001	<0.001
Copper	7440-50-8	0.001	mg/L		<0.001	<0.001	<0.001	<0.001	<0.001
Nickel	7440-02-0	0.001	mg/L		<0.001	<0.001	<0.001	<0.001	<0.001
Lead	7439-92-1	0.001	mg/L		<0.001	<0.001	<0.001	<0.001	<0.001
Zinc	7440-66-6	0.005	mg/L		<0.005	<0.005	0.011	<0.005	0.012
Manganese	7439-96-5	0.001	mg/L		0.057	0.002	0.009	0.007	0.004
Silver	7440-22-4	0.001	mg/L		<0.001	<0.001	<0.001	<0.001	<0.001
Iron	7439-89-6	0.05	mg/L		0.54	<0.05	<0.05	<0.05	<0.05
EG020T: Total Metals by ICP-MS									
Aluminium	7429-90-5	0.01	mg/L		1.47	0.05	<0.01	<0.01	0.06
Arsenic	7440-38-2	0.001	mg/L		<0.001	<0.001	<0.001	<0.001	<0.001
Cadmium	7440-43-9	0.0001	mg/L		<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Chromium	7440-47-3	0.001	mg/L		0.002	<0.001	<0.001	<0.001	<0.001
Copper	7440-50-8	0.001	mg/L		<0.001	<0.001	<0.001	<0.001	<0.001
Nickel	7440-02-0	0.001	mg/L		<0.001	<0.001	<0.001	<0.001	<0.001
Lead	7439-92-1	0.001	mg/L		0.001	<0.001	<0.001	<0.001	<0.001
Zinc	7440-66-6	0.005	mg/L		0.213	0.012	0.011	<0.005	0.019
Manganese	7439-96-5	0.001	mg/L		0.087	0.004	0.011	0.010	0.010

Page : 4 of 6
 Work Order : ES2607287 Amendment 1
 Client : UGL LIMITED
 Project : UGL Maragle

Analytical Results

Sub-Matrix: SURFACE WATER (Matrix: WATER)				Sample ID	YK-IS	YR1-IS	WC-RS	WC-IS	YR2-IS
Sampling date / time				08-Mar-2026 14:22	08-Mar-2026 14:19	08-Mar-2026 14:31	08-Mar-2026 14:28	08-Mar-2026 14:29	
Compound	CAS Number	LOR	Unit	ES2607287-001	ES2607287-002	ES2607287-003	ES2607287-004	ES2607287-005	
				Result	Result	Result	Result	Result	
EG020T: Total Metals by ICP-MS - Continued									
Silver	7440-22-4	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	
Iron	7439-89-6	0.05	mg/L	1.71	0.06	<0.05	<0.05	0.07	
EG035F: Dissolved Mercury by FIMS									
Mercury	7439-97-6	0.0001	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	
EG035T: Total Recoverable Mercury by FIMS									
Mercury	7439-97-6	0.0001	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	
EK026SF: Total CN by Segmented Flow Analyser									
Total Cyanide	57-12-5	0.002	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	
EK055G: Ammonia as N by Discrete Analyser									
Ammonia as N	7664-41-7	0.01	mg/L	0.02	<0.01	0.01	0.05	0.02	
EK057G: Nitrite as N by Discrete Analyser									
Nitrite as N	14797-65-0	0.01	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	
EK058G: Nitrate as N by Discrete Analyser									
Nitrate as N	14797-55-8	0.01	mg/L	<0.01	0.01	0.02	0.02	0.02	
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser									
Nitrite + Nitrate as N	----	0.01	mg/L	<0.01	0.01	0.02	0.02	0.02	
EK061G: Total Kjeldahl Nitrogen By Discrete Analyser									
Total Kjeldahl Nitrogen as N	----	0.1	mg/L	0.5	0.2	0.1	0.2	0.5	
EK062G: Total Nitrogen as N (TKN + NOx) by Discrete Analyser									
Total Nitrogen as N	----	0.1	mg/L	0.5	0.2	0.1	0.2	0.5	
EK067G: Total Phosphorus as P by Discrete Analyser									
Total Phosphorus as P	----	0.01	mg/L	0.10	0.03	0.05	0.01	0.04	
EK071G: Reactive Phosphorus as P by discrete analyser									
Reactive Phosphorus as P	14265-44-2	0.01	mg/L	0.01	<0.01	0.01	0.01	<0.01	

Analytical Results

Sub-Matrix: SURFACE WATER (Matrix: WATER)				Sample ID	NZG-IS	TR-RS	TR-RS (DUP)	----	----
Sampling date / time					08-Mar-2026 14:26	08-Mar-2026 14:25	08-Mar-2026 14:23	----	----
Compound	CAS Number	LOR	Unit		ES2607287-006	ES2607287-007	ES2607287-008	-----	-----
					Result	Result	Result	----	----
EA015: Total Dissolved Solids dried at 180 ± 5 °C									
Total Dissolved Solids @180°C	----	10	mg/L		65	28	26	----	----
EA025: Total Suspended Solids dried at 104 ± 2°C									
Suspended Solids (SS)	----	1	mg/L		<1	<1	<1	----	----
ED093F: SAR and Hardness Calculations									
Total Hardness as CaCO3	----	1	mg/L		32	14	14	----	----
EG020F: Dissolved Metals by ICP-MS									
Aluminium	7429-90-5	0.01	mg/L		0.04	<0.01	<0.01	----	----
Arsenic	7440-38-2	0.001	mg/L		<0.001	<0.001	<0.001	----	----
Cadmium	7440-43-9	0.0001	mg/L		<0.0001	<0.0001	<0.0001	----	----
Chromium	7440-47-3	0.001	mg/L		<0.001	<0.001	<0.001	----	----
Copper	7440-50-8	0.001	mg/L		<0.001	<0.001	<0.001	----	----
Nickel	7440-02-0	0.001	mg/L		<0.001	<0.001	<0.001	----	----
Lead	7439-92-1	0.001	mg/L		<0.001	<0.001	<0.001	----	----
Zinc	7440-66-6	0.005	mg/L		<0.005	<0.005	<0.005	----	----
Manganese	7439-96-5	0.001	mg/L		0.007	<0.001	<0.001	----	----
Silver	7440-22-4	0.001	mg/L		<0.001	<0.001	<0.001	----	----
Iron	7439-89-6	0.05	mg/L		0.09	<0.05	<0.05	----	----
EG020T: Total Metals by ICP-MS									
Aluminium	7429-90-5	0.01	mg/L		0.08	0.04	0.03	----	----
Arsenic	7440-38-2	0.001	mg/L		<0.001	<0.001	<0.001	----	----
Cadmium	7440-43-9	0.0001	mg/L		<0.0001	<0.0001	<0.0001	----	----
Chromium	7440-47-3	0.001	mg/L		<0.001	<0.001	<0.001	----	----
Copper	7440-50-8	0.001	mg/L		<0.001	<0.001	<0.001	----	----
Nickel	7440-02-0	0.001	mg/L		<0.001	<0.001	<0.001	----	----
Lead	7439-92-1	0.001	mg/L		<0.001	<0.001	<0.001	----	----
Zinc	7440-66-6	0.005	mg/L		<0.005	<0.005	<0.005	----	----
Manganese	7439-96-5	0.001	mg/L		0.011	0.009	0.012	----	----



Analytical Results

Sub-Matrix: SURFACE WATER
 (Matrix: WATER)

Sample ID				NZG-IS	TR-RS	TR-RS (DUP)		
Sampling date / time				08-Mar-2026 14:26	08-Mar-2026 14:25	08-Mar-2026 14:23		
Compound				ES2607287-006	ES2607287-007	ES2607287-008		
CAS Number				Result	Result	Result		
LOR								
Unit								
EG020T: Total Metals by ICP-MS - Continued								
Silver	7440-22-4	0.001	mg/L	<0.001	<0.001	<0.001		
Iron	7439-89-6	0.05	mg/L	0.18	0.05	<0.05		
EG035F: Dissolved Mercury by FIMS								
Mercury	7439-97-6	0.0001	mg/L	<0.0001	<0.0001	<0.0001		
EG035T: Total Recoverable Mercury by FIMS								
Mercury	7439-97-6	0.0001	mg/L	<0.0001	<0.0001	<0.0001		
EK026SF: Total CN by Segmented Flow Analyser								
Total Cyanide	57-12-5	0.002	mg/L	<0.002	<0.002	<0.002		
EK055G: Ammonia as N by Discrete Analyser								
Ammonia as N	7664-41-7	0.01	mg/L	0.01	0.05	<0.01		
EK057G: Nitrite as N by Discrete Analyser								
Nitrite as N	14797-65-0	0.01	mg/L	<0.01	<0.01	<0.01		
EK058G: Nitrate as N by Discrete Analyser								
Nitrate as N	14797-55-8	0.01	mg/L	0.02	0.02	0.01		
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser								
Nitrite + Nitrate as N		0.01	mg/L	0.02	0.02	0.01		
EK061G: Total Kjeldahl Nitrogen By Discrete Analyser								
Total Kjeldahl Nitrogen as N		0.1	mg/L	0.2	0.3	0.2		
EK062G: Total Nitrogen as N (TKN + NOx) by Discrete Analyser								
Total Nitrogen as N		0.1	mg/L	0.2	0.3	0.2		
EK067G: Total Phosphorus as P by Discrete Analyser								
Total Phosphorus as P		0.01	mg/L	0.03	<0.01	0.01		
EK071G: Reactive Phosphorus as P by discrete analyser								
Reactive Phosphorus as P	14265-44-2	0.01	mg/L	0.02	<0.01	<0.01		



Appendix C: March 2026 WQ Monitoring Results

		Sheen/ oil/ grease	Temp. (°C)	Dissolved Oxygen (DO %)	DO (ppm)	Specific EC (SPC uS/cm)	EC (uS/cm)	pH	Redox (mV)	Turbidity (NTU)	Dissolved Al (mg/L)	Dissolved As (mg/L)	Dissolved Cd (mg/L)	Dissolved Cr (mg/L)	Dissolved Cu (mg/L)	Cyanide (mg/L)	Dissolved Fe (mg/L)	Dissolved Pb (mg/L)	Dissolved Mn (mg/L)	Dissolved Hg (mg/L)
Parameter																				
YARRANGOBILLY CATCHMENT																				
Default Guideline Value (DGV)		No	-	90-110	-	30-350	30-350	6.5-8	-	2-25	0.027	0.0008	0.0006	0.00001	0.001	0.004	0.3	0.001	1.2	0.00006
Limit of Reporting (LOR)										0.1	0.01	0.001	0.0001	0.001	0.001	0.002	0.05	0.001	0.001	0.0001
Dec - May Site Specific Guideline Value (SSGV)				96.2	9.08	115	93.2	7.85	79.1	0.37	0.03	0.0003	0.00002	0.00001	0.0002	0.002	0.03	0.001	0.002	0.00003
June - Nov SSGV				89.7	10.28	88	60.85	7.62	98.4	5.12	0.04	0.0003	0.00002	0.00001	0.0002	0.002	0.02	0.001	0.002	0.00003
WC-RS	Mar-24	No	10.7	87.5	9.72	143.6	104.3	7.80	25.9	0.1	0.02	0.00015	0.00001	0.00001	0.002	0.001	0.03	0.002	0.003	0.00002
	Apr-24	No	10.7	94.8	-	145.6	-	8.44	-	1.05	0.01	0.001	0.0001	0.001	0.001	0.002	0.11	0.001	0.007	0.0001
	May-24	No	2.1	93.8	-	155	-	8.05	-	0.39	0.01	0.001	0.0001	0.001	0.001	0.004	0.05	0.001	0.009	0.0001
	Jun-24	No	4.7	92.9	-	126.8	-	7.51	-	0.56	0.01	0.001	0.0001	0.001	0.001	0.002	0.05	0.001	0.005	0.0001
	Jul-24	No	6.4	91.9	-	46.6	-	6.96	-	9.24	0.07	0.001	0.0001	0.001	0.001	0.002	0.05	0.001	0.002	0.0001
	Aug-24	No	10.4	80.6	-	47.1	-	7.80	-	1.6	0.02	0.001	0.0001	0.001	0.001	0.002	0.05	0.001	0.002	0.0001
	Sep-24	No	11.7	92.0	-	43	-	7.86	-	0.5	0.01	0.001	0.0001	0.001	0.001	0.002	0.05	0.001	0.002	0.0001
	Oct-24	No	9.3	92.7	-	52	-	7.55	-	1.3	0.02	0.001	0.0001	0.001	0.001	0.002	0.05	0.001	0.002	0.0001
	Nov-24	No	12.2	90.6	9.7	82	82	7.63	235	0.6	0.02	0.001	0.0001	0.001	0.001	0.002	0.05	0.001	0.004	0.0001
	Dec-24	Yes	12.7	90.0	10.0	41.8	71.0	7.75	250	1.4	0.01	0.001	0.0001	0.001	0.001	0.002	0.05	0.001	0.001	0.0001
*sample not an	Jan-25	No	26.6	83.2	-	27.3	-	8.13	-	0.65	-	-	-	-	-	-	-	-	-	-
	Feb-25	No	16.3	86.0	9.2	26.3	123	7.76	158	4.01	0.06	0.001	0.0001	0.001	0.001	0.002	0.08	0.001	0.008	0.0001
	Mar-25	Yes	14.7	92.7	9.8	34.6	145	8.32	162	1.16	0.01	0.001	0.0001	0.001	0.001	0.002	0.05	0.001	0.008	0.0001
	Apr-25	No	17.6	91.8	10.5	34	155	8.19	202	0.9	0.01	0.001	0.0001	0.001	0.001	0.002	0.05	0.001	0.007	0.0001
	May-25	Yes	9.9	96.0	-	33.7	24	8.59	110.8	1.04	0.01	0.001	0.0001	0.001	0.001	0.002	0.05	0.001	0.007	0.0001
	Jun-25	No	5.9	89.1	-	12.4	7.9	8.63	113.9	2.87	0.02	0.001	0.0001	0.001	0.001	0.002	0.05	0.001	0.005	0.0001
	Jul-25	No	8.6	87.6	-	11.3	7.7	9.20	193.5	5.9	0.06	0.001	0.0001	0.001	0.001	0.001	0.001	0.001	0.001	0.0001
	Aug-25	No	9.7	94.9	-	15.4	9.8	7.00	294.9	3.93	0.02	0.001	0.0001	0.001	0.001	-	0.05	0.001	0.001	0.0001
	Sep-25	No	5.3	93.3	-	101.1	63.1	8.20	177.5	0.8	0.03	0.001	0.0001	0.001	0.001	0.002	0.05	0.001	0.002	0.0001
	Oct-25	Yes	8.6	93.4	-	86.7	59.6	7.59	111.6	0.88	0.01	0.001	0.0001	0.001	0.001	0.002	0.05	0.001	0.002	0.0001
*sample not an	Nov-25	No	16.3	76.4	-	99.2	4	7.88	161.3	0.73	0.01	0.001	0.0001	0.001	0.014	0.002	0.05	0.001	0.003	0.0001
	Dec-25	No	17.2	80.1	-	109.9	93.5	7.95	148	4.54	0.01	0.001	0.0001	0.001	0.001	0.002	0.05	0.001	0.003	0.0001
	Jan-26	No	27.6	90.2	-	84	88.1	8.22	113.9	6.91	0.01	0.001	0.0001	0.001	0.001	0.002	0.05	0.001	0.054	0.0001
	Feb-26	Yes	19.2	86.3	-	212	188.4	7.99	151.1	1.69	0.01	0.001	0.0001	0.001	0.001	0.002	0.05	0.001	0.011	0.0001
	Mar-26	No	18.2	87.5	-	141.3	123.6	7.96	156.9	1.80	0.01	0.001	0.0001	0.001	0.001	0.002	0.05	0.001	0.009	0.0001
WC-IS	Mar-24	No	10.7	87.1	9.68	145.9	105.9	7.83	41.9	0.1	0.03	0.00015	0.00001	0.00001	0.002	0.001	0.03	0.002	0.003	0.00002
	Apr-24	No	10.7	95.0	-	145.2	-	8.45	-	0.9	0.01	0.001	0.0001	0.001	0.001	0.002	0.07	0.001	0.006	0.0001
	May-24	No	2.1	94.1	-	154.9	-	7.86	-	0.3	0.01	0.001	0.0001	0.001	0.001	0.004	0.05	0.001	0.007	0.0001
	Jun-24	No	4.8	93.3	-	126.7	-	7.72	-	0.35	0.01	0.001	0.0001	0.001	0.001	0.002	0.05	0.001	0.004	0.0001
	Jul-24	No	6.6	91.2	-	46.6	-	6.96	-	7.85	0.07	0.001	0.0001	0.001	0.001	0.002	0.05	0.001	0.002	0.0001
	Aug-24	No	10.5	91.5	-	45.6	-	7.83	-	5.85	0.02	0.001	0.0001	0.001	0.001	0.002	0.05	0.001	0.001	0.0001
	Sep-24	No	11.7	92.9	-	54.4	-	7.83	-	5.5	0.04	0.001	0.0001	0.001	0.001	0.002	0.05	0.001	0.005	0.0001
	Oct-24	No	9.5	93.3	-	52.1	-	7.66	-	1.4	0.02	0.001	0.0001	0.001	0.001	0.002	0.05	0.001	0.002	0.0001
	Nov-24	No	12.2	90.4	9.9	82	82	7.63	245	0.3	0.01	0.001	0.0001	0.001	0.001	0.002	0.05	0.001	0.002	0.0001
	Dec-24	No	12.7	91.1	10.1	41.3	72	7.48	259	1.4	0.01	0.001	0.0001	0.001	0.001	0.002	0.05	0.001	0.001	0.0001
	Jan-25	No	17.8	85.7	9.1	24.5	108	7.80	232	2.75	0.01	0.001	0.0001	0.001	0.001	0.002	0.05	0.001	0.007	0.0001
	Feb-25	No	16.3	85.2	9.4	26	123	7.80	164	4.08	0.06	0.001	0.0001	0.001	0.001	0.002	0.08	0.001	0.007	0.0001
	Mar-25	No	16.1	95.8	9.7	31.8	145	8.33	170	1.13	0.01	0.001	0.0001	0.001	0.001	0.002	0.05	0.001	0.006	0.0001
	Apr-25	No	17.3	92.8	10.6	33.5	155	8.66	197	1.02	0.01	0.001	0.0001	0.001	0.001	0.002	0.05	0.001	0.005	0.0001
	May-25	No	9.4	96.1	-	34.3	24.1	8.71	110.9	1.4	0.01	0.001	0.0001	0.001	0.001	0.002	0.05	0.001	0.006	0.0001
	Jun-25	No	5.8	89.6	-	24.5	15.5	8.30	113.6	5.1	0.02	0.001	0.0001	0.001	0.001	0.002	0.05	0.001	0.003	0.0001
	Jul-25	No	8.1	85.9	-	11.2	7.6	9.40	199.4	9.92	0.06	0.001	0.0001	0.001	0.001	0.002	0.05	0.001	0.001	0.0001
	Aug-25	No	10.3	96.5	-	13.7	9.8	7.00	294.9	3.93	0.02	0.001	0.0001	0.001	0.001	0.002	0.05	0.001	0.002	0.0001
	Sep-25	No	5.2	93.9	-	72.1	44.9	8.50	178.5	6	0.03	0.001	0.0001	0.001	0.003	0.002	0.05	0.001	0.002	0.0001
	Oct-25	No	11.9	100.6	-	89.7	67.2	7.64	110.3	0.88	0.01	0.001	0.0001	0.001	0.001	0.002	0.05	0.001	0.002	0.0001
	Nov-25	No	14.7	76.5	-	95.3	76.5	7.84	147	1.15	0.01	0.001	0.0001	0.001	0.005	0.002	0.05	0.001	0.003	0.0001
	Dec-25	No	17.6	81.8	-	109	93.5	8.10	132.1	4.29	0.02	0.001	0.0001	0.001	0.001	0.002	0.05	0.001	0.003	0.0001
	Jan-26	No	24.3	87.8	-	181.8	88.1	8.22	113.9	6.91	0.01	0.001	0.0001	0.001	0.001	0.002	0.05	0.001	0.008	0.0001
	Feb-26	No	21.0	90.4	-	206.9	191.7	8.05	145.6	1.28	0.01	0.001	0.0001	0.001	0.001	0.002	0.05	0.001	0.008	0.0001
	Mar-26	No	18.3	87.2	-	68.9	60.8	8.03	135.8	2.54	0.01	0.001	0.0001	0.001	0.001	0.002	0.05	0.001	0.007	0.0001

	Reference Site exceeds SSGV
	Impact Site Result exceeds SSGV or DGV
<i>italics</i>	Result exceeds the Limit of Reporting

		Dissolved Ni (mg/L)	TN (mg/L)	TP (mg/L)	Dissolved Ag (mg/L)	Dissolved Zn (mg/L)	Ammonia (mg/L)	Nitrogen Oxides (mg/L)	Reactive Phosphorus (mg/L)	Total Hardness (mg/L) (CaCO3)	Total Kjeda hl Nitrogen (mg/L) (TKN)	TDS (mg/L)	TSS (mg/L)	Total Al (mg/L)	Total As (mg/L)	Total Cd (mg/L)	Total Cr (mg/L)	Total Cu (mg/L)	Total Pb (mg/L)	Total Mn (mg/L)	Total Ni (mg/L)	Total Ag (mg/L)	Total Zn (mg/L)	Total Fe (mg/L)	Total Hg (mg/L)	
Parameter																										
YARRANGOBILLY CATCHMENT																										
Default Guideline Value (DGV)		0.008	0.25	0.02	0.00002	0.0024	0.013	0.015	0.015	-	-	-	0.2	0.027	0.0008	0.0006	0.00001	0.001	0.001	1.2	0.008	0.00002	0.0024	0.3	0.00006	
Limit of Reporting (LOR)		0.001	0.1	0.01	0.001	0.005	0.010	0.010	0.010	1	0.1	10	1	0.01	0.001	0.0001	0.001	0.001	0.001	0.001	0.001	0.001	0.005	0.05	0.0001	
Dec - May Site Specific Guideline Value (SSGV)		0.001	0.2	0.02	0.00002	0.002	0.013	0.015	0.020	47	0.2	52	0.2													
June - Nov SSGV		0.001	0.2	0.02	0.00002	0.002	0.013	0.015	0.015	30	0.2	39	1.0													
WC-RS	Mar-24	0.001	0.1	0.03	0.00001	0.001	0.050	0.05	0.005	42	0.1	70	0.1	-	-	-	-	-	-	-	-	-	-	-	-	
	Apr-24	0.001	0.1	0.02	0.001	0.005	0.010	0.01	-	70	0.01	-	1	0.02	0.001	0.0001	0.001	0.001	0.001	0.01	0.001	0.001	0.005	0.05	0.0001	
	May-24	0.001	0.1	0.02	0.001	0.005	0.020	0.01	0.01	77	0.1	102	5	0.01	0.001	0.0001	0.001	0.001	0.001	0.007	0.001	0.001	0.005	0.05	0.0001	
	Jun-24	0.001	0.2	0.01	0.001	0.005	0.010	0.23	0.01	53	0.1	81	2	0.01	0.001	0.0001	0.001	0.001	0.001	0.007	0.001	0.001	0.005	0.05	0.0001	
	Jul-24	0.001	0.1	0.05	0.001	0.005	0.010	0.01	0.01	17	0.1	38	8	0.09	0.001	0.0001	0.001	0.001	0.001	0.01	0.001	0.001	0.005	0.09	0.0001	
	Aug-24	0.001	0.1	0.01	0.001	0.032	0.010	0.01	0.01	28	0.1	51	4	0.06	0.001	0.0001	0.001	0.001	0.001	0.007	0.001	0.001	0.005	0.07	0.0001	
	Sep-24	0.001	0.4	0.03	0.001	0.005	0.040	0.22	0.01	31	0.2	65	3	0.04	0.001	0.0001	0.001	0.001	0.001	0.005	0.001	0.001	0.005	0.05	0.0001	
	Oct-24	0.001	0.1	0.02	0.001	0.005	0.010	0.02	0.01	31	0.1	46	1	0.07	0.001	0.0001	0.001	0.001	0.001	0.004	0.001	0.001	0.005	0.1	0.0001	
	Nov-24	0.001	0.1	0.06	0.001	0.005	0.020	0.02	0.01	36	0.1	60	2	0.01	0.001	0.0001	0.001	0.001	0.001	0.003	0.001	0.001	0.005	0.05	0.0001	
Dec-24	0.001	0.1	0.01	0.001	0.005	0.010	0.01	0.01	31	0.1	51	2	0.09	0.001	0.0001	0.001	0.001	0.001	0.006	0.001	0.001	0.005	0.08	0.0001		
*sample not an	Jan-25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Feb-25	0.001	0.2	0.06	0.001	0.005	0.040	0.02	0.01	57	0.2	61	2	0.16	0.001	0.0001	0.001	0.001	0.001	0.011	0.001	0.001	0.008	0.15	0.0001	
	Mar-25	0.001	0.2	0.02	0.001	0.005	0.020	0.01	0.01	70	0.2	90	1	0.01	0.001	0.0001	0.001	0.001	0.001	0.01	0.001	0.001	0.005	0.05	0.0001	
	Apr-25	0.001	0.1	0.01	0.001	0.005	0.020	0.01	0.01	80	0.1	88	1	0.01	0.001	0.0001	0.001	0.001	0.001	0.009	0.001	0.001	0.005	0.06	0.0001	
	May-25	0.001	2.9	0.01	0.001	0.005	0.020	2.5	0.01	77	0.4	104	1	0.01	0.001	0.0001	0.001	0.001	0.001	0.009	0.001	0.001	0.005	0.05	0.0001	
	Jun-25	0.001	0.6	0.04	0.001	0.005	0.010	0.42	0.01	55	0.2	84	3	0.08	0.001	0.0001	0.001	0.001	0.001	0.008	0.001	0.001	0.005	0.09	0.0001	
	Jul-25	0.001	0.1	0.02	0.001	0.005	0.010	0.1	0.01	19	0.1	36	6	0.17	0.001	0.0001	0.001	0.001	0.001	0.011	0.001	0.001	0.005	0.16	0.0001	
	Aug-25	0.001	0.1	0.01	0.001	0.005	0.070	0.1	0.01	26	0.1	37	1	0.05	0.001	0.0001	0.001	0.001	0.001	0.004	0.001	0.001	0.005	0.05	0.0001	
	Sep-25	0.001	0.1	0.03	0.001	0.01	0.010	0.01	0.01	23	0.1	46	1	0.09	0.001	0.0001	0.001	0.001	0.001	0.005	0.001	0.001	0.005	0.07	0.0001	
*sample not an	Oct-25	0.001	0.1	0.04	0.001	0.005	0.040	0.01	0.01	33	0.1	44	1	0.04	0.001	0.0001	0.001	0.001	0.001	0.004	0.001	0.001	0.005	0.05	0.0001	
	Nov-25	0.001	0.2	0.04	0.001	0.025	0.010	0.01	0.01	41	0.2	52	1	0.02	0.001	0.0001	0.001	0.001	0.019	0.001	0.004	0.001	0.005	0.028	0.05	0.0001
	Dec-25	0.001	0.1	0.01	0.001	0.005	0.030	0.02	0.01	41	0.1	93	3	0.11	0.001	0.0001	0.001	0.001	0.001	0.008	0.001	0.001	0.005	0.12	0.0001	
	Jan-26	0.001	0.4	0.03	0.001	0.054	0.010	0.02	0.01	77	0.4	125	1	0.04	0.001	0.0001	0.001	0.001	0.001	0.011	0.001	0.001	0.057	0.09	0.0001	
	Feb-26	0.001	0.1	0.03	0.001	0.012	0.003	0.01	0.01	101	0.1	121	1	0.01	0.001	0.0001	0.001	0.001	0.001	0.013	0.001	0.001	0.010	0.08	0.0001	
	Mar-26	0.001	0.1	0.05	0.001	0.011	0.010	0.02	0.01	65	0.1	91	1	0.01	0.001	0.0001	0.001	0.001	0.001	0.011	0.001	0.001	0.011	0.05	0.0001	
	WC-IS																									
	Mar-24	0.0005	0.1	0.005	0.00001	0.001	0.050	0.05	0.005	42	0.1	88	0.1	-	-	-	-	-	-	-	-	-	-	-	-	
	Apr-24	0.001	2.7	0.02	0.001	0.005	0.010	2.42	-	67	2.42	-	11	0.15	0.001	0.0001	0.001	0.001	0.001	0.022	0.004	0.001	0.005	0.22	0.0001	
May-24	0.001	0.4	0.02	0.001	0.005	0.010	0.31	0.01	75	0.1	106	5	0.01	0.001	0.0001	0.001	0.001	0.001	0.006	0.001	0.001	0.005	0.05	0.0001		
Jun-24	0.001	0.1	0.01	0.001	0.005	0.010	0.02	0.04	53	0.1	81	1	0.01	0.001	0.0001	0.001	0.001	0.001	0.005	0.001	0.001	0.005	0.05	0.0001		
Jul-24	0.001	0.1	0.02	0.001	0.005	0.010	0.01	0.01	17	0.1	42	5	0.11	0.001	0.0001	0.001	0.001	0.001	0.011	0.001	0.001	0.005	0.1	0.0001		
Aug-24	0.001	0.1	0.01	0.001	0.006	0.010	0.03	0.01	28	0.1	45	4	0.06	0.001	0.0001	0.001	0.001	0.001	0.006	0.001	0.001	0.005	0.06	0.0001		
Sep-24	0.001	7.8	0.02	0.001	0.017	0.010	7.21	0.01	33	0.4	113	3	0.02	0.001	0.0001	0.001	0.001	0.001	0.002	0.001	0.001	0.005	0.05	0.0001		
Oct-24	0.001	0.2	0.03	0.001	0.005	0.010	0.02	0.01	31	0.2	39	2	0.08	0.001	0.0001	0.001	0.001	0.001	0.004	0.005	0.001	0.005	0.12	0.0001		
Nov-24	0.001	0.1	0.01	0.001	0.005	0.010	0.01	0.01	38	0.1	58	1	0.02	0.001	0.0001	0.001	0.001	0.001	0.003	0.001	0.001	0.005	0.05	0.0001		
Dec-24	0.001	0.1	0.01	0.001	0.005	0.010	0.01	0.01	33	0.1	51	2	0.08	0.001	0.0001	0.001	0.001	0.001	0.006	0.001	0.001	0.005	0.09	0.0001		
Jan-25	0.001	0.2	0.01	0.001	0.005	0.010	0.01	0.01	51	0.2	82	1	0.04	0.001	0.0001	0.001	0.001	0.001	0.015	0.001	0.001	0.005	0.07	0.0001		
Feb-25	0.001	0.2	0.02	0.001	0.005	0.040	0.01	0.01	57	0.2	68	1	0.14	0.001	0.0001	0.001	0.001	0.001	0.010	0.001	0.001	0.005	0.14	0.0001		
Mar-25	0.001	0.1	0.03	0.001																						

		Sheen/ oil/ grease	Temp. (°C)	Dissolved Oxygen (DO %)	DO (ppm)	Specific EC (SPC uS/cm)	EC (uS/cm)	pH	Redox (mV)	Turbidity (NTU)	Dissolved Al (mg/L)	Dissolved As (mg/L)	Dissolved Cd (mg/L)	Dissolved Cr (mg/L)	Dissolved Cu (mg/L)	Cyanide (mg/L)	Dissolved Fe (mg/L)	Dissolved Pb (mg/L)	Dissolved Mn (mg/L)	Dissolved Hg (mg/L)
Parameter																				
YARRANGOBILLY CATCHMENT																				
Default Guideline Value (DGV)		No	-	90-110	-	30-350	30-350	6.5-8	-	2-25	0.027	0.0008	0.0006	0.00001	0.001	0.004	0.3	0.001	1.2	0.00006
Limit of Reporting (LOR)				-	-	-	-	-	-	0.1	0.01	0.001	0.0001	0.001	0.001	0.002	0.05	0.001	0.001	0.0001
Dec - May Site Specific Guideline Value (SSGV)				96.2	9.08	115	93.2	7.85	79.1	0.37	0.03	0.0003	0.00002	0.00001	0.0002	0.002	0.03	0.001	0.002	0.00003
June - Nov SSGV				89.7	10.28	88	60.85	7.62	98.4	5.12	0.04	0.0003	0.00002	0.00001	0.0002	0.002	0.02	0.001	0.002	0.00003
CG-IS	Mar-24	No Flow	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Apr-24	No Flow	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	May-24	No Flow	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Jun-24	No Flow	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Jul-24	No Flow	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Aug-24	No Flow	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Sep-24	No Flow	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Oct-24	No	12.7	93.2	-	382.8	-	8.17	-	1	0.01	0.001	0.0001	0.001	0.001	0.002	0.05	0.001	0.001	0.0001
	Nov-24	No Flow	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Dec-24	No	14	88.5	9.7	29	480	8.12	255	2.84	0.01	0.001	0.0001	0.001	0.001	0.002	0.05	0.001	0.001	0.0001
	Jan-25	No Flow	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Feb-25	No Flow	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Mar-25	No Flow	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Apr-25	No Flow	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	May-25	No Flow	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Jun-25	No Flow	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Jul-25	No	10.7	85.1	-	13.1	80.9	9.30	179	2.6	0.03	0.001	0.0001	0.001	0.001	0.002	0.05	0.001	0.004	0.0001
	Aug-25	No Flow	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Sep-25	No	12.1	96.6	-	483	364.4	8.00	175.1	1.63	0.01	0.001	0.0001	0.001	0.001	0.002	0.05	0.001	0.001	0.0001
	Oct-25	No	14.4	95.8	-	582	464.4	7.84	124.5	0.24	0.01	0.001	0.0001	0.001	0.001	0.002	0.05	0.001	0.001	0.0001
	Nov-25	No Flow	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Dec-25	No Flow	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Jan-26	No Flow	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Feb-26	No Flow	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Mar-26	No Flow	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
YR1-IS	Mar-24	No	12.2	88.2	9.47	129.4	97.7	7.81	53.8	0.1	0.05	0.00015	0.00001	0.000005	0.002	0.001	0.03	0.0005	0.002	0.000015
	Apr-24	No	11.3	97.4	-	136.1	-	8.49	-	1.23	0.01	0.001	0.0001	0.001	0.001	0.002	0.05	0.001	0.002	0.0001
	May-24	No	3.1	95.6	-	138.8	-	7.91	-	0.42	0.01	0.001	0.0001	0.001	0.001	0.004	0.05	0.001	0.002	0.0001
	Jun-24	No	5.6	94.3	-	112.4	-	7.80	-	1.94	0.02	0.001	0.0001	0.001	0.001	0.002	0.14	0.001	0.003	0.0001
	Jul-24	No	6.4	93.0	-	51.5	-	6.93	-	10.05	0.18	0.001	0.0001	0.001	0.001	0.002	0.11	0.001	0.002	0.0001
	Aug-24	No	8.6	89.8	-	55.8	-	7.87	-	3.62	0.07	0.001	0.0001	0.001	0.001	0.002	0.05	0.001	0.001	0.0001
	Sep-24	No	13.3	93.1	-	61.4	-	7.77	-	0.79	0.04	0.001	0.0001	0.001	0.001	0.002	0.05	0.001	0.002	0.0001
	Oct-24	No	12.5	94.9	-	66.8	-	7.77	-	2	0.04	0.001	0.0001	0.001	0.001	0.002	0.05	0.001	0.001	0.0001
	Nov-24	No	15	92.2	9.7	105	105	7.69	251	0.8	0.01	0.001	0.0001	0.001	0.001	0.002	0.05	0.001	0.020	0.0001
	Dec-24	No	14.3	91.1	9.9	40.4	69	7.52	253	3.94	0.1	0.001	0.0001	0.001	0.001	0.002	0.06	0.001	0.001	0.0001
	Jan-25	No	19.5	86.6	9	19.2	110	8.01	235	14.18	0.04	0.001	0.0001	0.001	0.001	0.002	0.05	0.001	0.003	0.0001
	Feb-25	No	17.2	86.3	9.3	21.8	101	7.78	168	4.35	0.14	0.001	0.0001	0.001	0.001	0.002	0.13	0.001	0.005	0.0001
	Mar-25	No	19.5	101.4	9.6	39.3	178	8.46	175	1.16	0.01	0.001	0.0001	0.001	0.001	0.002	0.05	0.001	0.002	0.0001
	Apr-25	Yes	18.7	91.6	10.4	36.3	171	8.76	195	0.98	0.01	0.001	0.0001	0.001	0.001	0.002	0.05	0.001	0.006	0.0001
	May-25	Yes	10.3	95.1	-	35.1	25.2	8.84	110.9	1.29	0.01	0.001	0.0001	0.001	0.001	0.002	0.05	0.001	0.002	0.0001
	Jun-25	No	5.9	89.8	-	18.2	11.5	8.66	122.1	11.92	0.14	0.001	0.0001	0.001	0.001	0.002	0.12	0.001	0.003	0.0001
	Jul-25	No	9.3	88.8	-	15.3	10.7	8.60	207.5	7.02	0.12	0.001	0.0001	0.001	0.001	0.002	0.06	0.001	0.001	0.0001
	Aug-25	No	15.6	101.0	-	42.9	35.2	7.80	290	4.21	0.04	0.001	0.0001	0.001	0.001	0.002	0.05	0.001	0.002	0.0001
	Sep-25	No	8.6	96.6	-	85.1	58.4	8.30	166.5	1	0.7	0.001	0.0001	0.001	0.001	0.002	0.05	0.001	0.002	0.0001
	Oct-25	No	9.6	91.8	-	108.4	76.4	7.66	94.9	1.3	0.06	0.001	0.0001	0.001	0.001	0.002	0.05	0.001	0.002	0.0001
	Nov-25	No	16	76.6	-	111.9	92.6	7.93	139.7	1.75	0.02	0.001	0.0001	0.001	0.004	0.002	0.05	0.001	0.002	0.0001
	Dec-25	No	20.1	81.9	-	124.8	113.2	8.28	134.6	31.04	0.02	0.001	0.0001	0.001	0.001	0.002	0.05	0.001	0.002	0.0001
	Jan-26	No	23.7	87.8	-	169.5	165.4	8.17	127.1	0.9	0.01	0.001	0.0001	0.001	0.001	0.002	0.05	0.001	0.008	0.0001
	Feb-26	No	22.6	93.4	-	204.1	194.6	8.19	138.5	1.37	0.01	0.001	0.0001	0.001	0.001	0.002	0.05	0.001	0.01	0.0001
	Mar-26	No	20.0	90.3	-	141.5	128.2	8.20	146.5	3.20	0.02	0.001	0.0001	0.001	0.001	0.002	0.05	0.001	0.002	0.0001

	Reference Site exceeds SSGV
	Impact Site Result exceeds SSGV or DGV
<i>italics</i>	Result exceeds the Limit of Reporting

		Dissolved Ni (mg/L)	TN (mg/L)	TP (mg/L)	Dissolved Ag (mg/L)	Dissolved Zn (mg/L)	Ammonia (mg/L)	Nitrogen Oxides (mg/L)	Reactive Phosphorus (mg/L)	Total Hardness (mg/L) (CaCO3)	Total Kjeda hl Nitrogen (mg/L) (TKN)	TDS (mg/L)	TSS (mg/L)	Total Al (mg/L)	Total As (mg/L)	Total Cd (mg/L)	Total Cr (mg/L)	Total Cu (mg/L)	Total Pb (mg/L)	Total Mn (mg/L)	Total Ni (mg/L)	Total Ag (mg/L)	Total Zn (mg/L)	Total Fe (mg/L)	Total Hg (mg/L)
Parameter																									
YARRANGOBILLY CATCHMENT																									
Default Guideline Value (DGV)		0.008	0.25	0.02	0.00002	0.0024	0.013	0.015	0.015	-	-	-	0.2	0.027	0.0008	0.0006	0.00001	0.001	0.001	1.2	0.008	0.00002	0.0024	0.3	0.00006
Limit of Reporting (LOR)		0.001	0.1	0.01	0.001	0.005	0.010	0.010	0.010	1	0.1	10	1	0.01	0.001	0.0001	0.001	0.001	0.001	0.001	0.001	0.001	0.005	0.05	0.0001
Dec - May Site Specific Guideline Value (SSGV)		0.001	0.2	0.02	0.00002	0.002	0.013	0.015	0.020	47	0.2	52	0.2												
June - Nov SSGV		0.001	0.2	0.02	0.00002	0.002	0.013	0.015	0.015	30	0.2	39	1.0												
CG-IS	Mar-24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Apr-24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	May-24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Jun-24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Jul-24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Aug-24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Sep-24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Oct-24	0.001	0.1	0.02	0.001	0.005	0.010	0.01	0.01	294	0.1	298	1	0.01	0.001	0.0001	0.001	0.001	0.001	0.001	0.001	0.001	0.005	0.05	0.0001
	Nov-24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Dec-24	0.001	0.1	0.01	0.001	0.005	0.010	0.02	0.01	287	0.1	336	1	0.01	0.001	0.0001	0.001	0.001	0.001	0.001	0.001	0.001	0.005	0.05	0.0001
	Jan-25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Feb-25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Mar-25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Apr-25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	May-25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Jun-25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Jul-25	0.001	0.1	0.02	0.001	0.005	0.040	0.07	0.01	290	0.1	347	1	0.03	0.001	0.0001	0.001	0.001	0.001	0.001	0.004	0.001	0.005	0.05	0.0001
Aug-25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Sep-25	0.001	0.2	0.01	0.001	0.005	0.010	0.01	0.01	249	0.2	312	1	0.01	0.001	0.0001	0.001	0.001	0.001	0.001	0.001	0.001	0.005	0.05	0.0001	
Oct-25	0.001	0.1	0.01	0.001	0.005	0.010	0.01	0.01	272	0.1	312	1	0.01	0.001	0.0001	0.001	0.001	0.001	0.001	0.002	0.001	0.001	0.005	0.05	0.0001
Nov-25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dec-25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Jan-26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Feb-26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Mar-26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
YR1-IS	Mar-24	0.001	0.1	0.005	0.00001	0.001	0.050	0.05	0.005	34	0.1	66	0.1	-	-	-	-	-	-	-	-	-	-	-	-
	Apr-24	0.001	0.1	0.01	0.001	0.005	0.010	0.05	-	61	0.05	-	1	0.01	0.001	0.0001	0.001	0.001	0.001	0.002	0.001	0.001	0.005	0.05	0.0001
	May-24	0.001	0.1	0.02	0.001	0.005	0.010	0.01	0.01	68	0.1	95	5	0.01	0.001	0.0001	0.001	0.001	0.001	0.001	0.001	0.001	0.005	0.05	0.0001
	Jun-24	0.001	0.1	0.01	0.001	0.005	0.010	0.01	0.03	51	0.1	68	1	0.03	0.001	0.0001	0.001	0.001	0.001	0.001	0.001	0.001	0.005	0.05	0.0001
	Jul-24	0.001	0.2	0.02	0.001	0.005	0.010	0.01	0.01	19	0.2	48	7	0.17	0.001	0.0001	0.001	0.001	0.001	0.009	0.001	0.001	0.005	0.15	0.0001
	Aug-24	0.001	0.2	0.01	0.001	0.005	0.010	0.01	0.01	33	0.2	55	3	0.12	0.001	0.0001	0.001	0.001	0.001	0.004	0.001	0.001	0.005	0.09	0.0001
	Sep-24	0.001	0.1	0.04	0.001	0.005	0.010	0.02	0.01	38	0.1	68	2	0.06	0.001	0.0001	0.001	0.001	0.001	0.003	0.001	0.001	0.005	0.05	0.0001
	Oct-24	0.001	0.1	0.02	0.001	0.006	0.020	0.01	0.01	41	0.1	60	2	0.08	0.001	0.0001	0.001	0.001	0.001	0.001	0.001	0.001	0.005	0.09	0.0001
	Nov-24	0.001	0.1	0.01	0.001	0.005	0.010	0.01	0.01	48	0.1	74	1	0.04	0.001	0.0001	0.001	0.001	0.001	0.003	0.001	0.001	0.005	0.05	0.0001
	Dec-24	0.001	0.1	0.01	0.001	0.005	0.010	0.02	0.01	31	0.1	52	4	0.17	0.001	0.0001	0.001	0.001	0.001	0.006	0.001	0.001	0.039	0.15	0.0001
	Jan-25	0.001	0.6	0.05	0.001	0.005	0.080	0.05	0.01	56	0.6	81	47	0.27	0.001	0.0001	0.001	0.001	0.001	0.051	0.001	0.001	0.009	0.33	0.0001
	Feb-25	0.001	0.2	0.03	0.001	0.005	0.040	0.02	0.01	46	0.2	51	4	0.15	0.001	0.0001	0.001	0.001	0.001	0.01	0.001	0.001	0.016	0.16	0.0001
	Mar-25	0.001	0.1	0.01	0.001	0.005	0.030	0.01	0.01	90	0.1	100	1	0.01	0.001	0.0001	0.001	0.001	0.001	0.003	0.001	0.001	0.005	0.05	0.0001
	Apr-25	0.001	0.2	0.02	0.001	0.005	0.040	0.01	0.01	87	0.2	100	1	0.01	0.001	0.0001	0.001	0.001	0.001	0.006	0.001	0.001	0.005	0.05	0.0001
	May-25	0.001	0.1	0.01	0.001	0.005	0.020	0.01	0.01	82	0.1	96	1	0.01	0.001	0.0001	0.001	0.001	0.001	0.002	0.001	0.001	0.005	0.05	0.0001
	Jun-25	0.001	0.3	0.02	0.001	0.008	0.020	0.02	0.01	36	0.3	83	7	0.71	0.001	0.0001	0.002	0.001	0.001	0.014	0.002	0.001	0.01	0.56	0.0001
	Jul-25	0.001	0.1	0.02	0.001	0.005	0.010	0.02	0.01	24	0.1	44	2	0.15	0.001	0.0001	0.001	0.002	0.001	0.005	0.001	0.001	0.005	0.2	0.0001
	Aug-25	0.001	0.2	0.03	0.001	0.005	0.010	0.2	0.01	41	0.1	53	1	0.07	0.001	0.0001	0.001	0.001	0.001	0.003	0.001	0.001	0.005	0.05	0.0001
	Sep-25	0.001	0.2	0.04	0.001	0.005	0.010	0.01	0.01	29	0.1	56	1	0.12	0.001	0.0001	0.001	0.001	0.001	0.004	0.001	0.001	0.005	0.08	0.0001
	Oct-25	0.001	0.1	0.01	0.001	0.005	0.040	0.01	0.01	41	0.1	63	1	0.12	0.001	0.0001	0.001	0.001	0.001	0.004	0.001	0.001	0.005	0.09	0.0001
	Nov-25	0.001	0.2	0.01	0.001	0.012	0.010	0.2	0.01	51	0.2	67	2	0.05	0.001	0.0001	0.001	0.014	0.001	0.01	0.001	0.001	0.013	0.14	0.0001
	Dec-25	0.001	0.2	0.01	0.001	0.005	0.060	0.01	0.01	48	0.2	110	1	0.03	0.001	0.0001	0.001	0.001	0.001	0.003	0.001	0.001	0.005	0.05	0.0001
	Jan-26	0.001	0.1	0.02	0.001	0.018	0.020	0.02	0.01	75	0.1	125	1	0.02	0.001	0.0001	0.001	0.001	0.001	0.008	0.001	0.001	0.015	0.06	0.0001
	Feb-26	0.001	0.3	0.02	0.001	0.01	0.070	0.01	0.01	99	0.3	116	1	0.01	0.001										

	Reference Site exceeds SSGV
	Impact Site Result exceeds SSGV or DGV
<i>italics</i>	Result exceeds the Limit of Reporting

		Sheen/ oil/ grease	Temp. (°C)	Dissolved Oxygen (DO %)	DO (ppm)	Specific EC (SPC uS/cm)	EC (uS/cm)	pH	Redox (mV)	Turbidity (NTU)	Dissolved Al (mg/L)	Dissolved As (mg/L)	Dissolved Cd (mg/L)	Dissolved Cr (mg/L)	Dissolved Cu (mg/L)	Cyanide (mg/L)	Dissolved Fe (mg/L)	Dissolved Pb (mg/L)	Dissolved Mn (mg/L)	Dissolved Hg (mg/L)
Parameter																				
YARRANGOBILLY CATCHMENT																				
Default Guideline Value (DGV)		No	-	90-110	-	30-350	30-350	6.5-8	-	2-25	0.027	0.0008	0.0006	0.00001	0.001	0.004	0.3	0.001	1.2	0.0006
Limit of Reporting (LOR)				-	-	-	-	-	-	0.1	0.01	0.001	0.0001	0.001	0.001	0.002	0.05	0.001	0.001	0.0001
Dec - May Site Specific Guideline Value (SSGV)				96.2	9.08	115	93.2	7.85	79.1	0.37	0.03	0.0003	0.00002	0.00001	0.0002	0.002	0.03	0.001	0.002	0.00003
June - Nov SSGV				89.7	10.28	88	60.85	7.62	98.4	5.12	0.04	0.0003	0.00002	0.00001	0.0002	0.002	0.02	0.001	0.002	0.00003
LHG-IS	Mar-24	Yes	11.9	59.2	6.38	596	447.2	7.35	-17.2	408.5	0.2	0.00015	0.00001	0.001	0.003	0.001	0.18	0.005	0.040	0.000015
	Apr-24	No	12.5	60.1	-	658	-	7.69	-	69.72	0.01	0.001	0.0001	0.001	0.001	0.002	0.34	0.001	0.184	0.0001
	May-24	No	7	63.3	-	618	-	7.00	-	1003.7	0.01	0.001	0.0001	0.001	0.001	0.004	0.71	0.001	0.184	0.0001
	Jun-24	No	8.5	70.4	-	616	-	7.65	-	10.05	0.01	0.001	0.0001	0.001	0.001	0.002	0.48	0.001	0.158	0.0001
	Jul-24	No	8	87.5	-	503	-	7.30	-	5.44	0.01	0.001	0.0001	0.001	0.001	0.002	0.07	0.001	0.025	0.0001
	Aug-24	No	11.4	83.0	-	408.8	-	7.74	-	76.59	0.01	0.001	0.0001	0.001	0.001	0.002	0.07	0.001	0.020	0.0001
	Sep-24	No	9.7	87.3	-	424.6	-	7.68	-	6.13	0.01	0.001	0.0001	0.001	0.001	0.002	0.06	0.001	0.045	0.0001
	Oct-24	No	12.4	86.5	-	432.4	-	7.59	-	2.2	0.01	0.001	0.0001	0.001	0.001	0.002	0.10	0.001	0.036	0.0001
	Nov-24	No	12.1	83.1	9.9	537	537	7.91	254	3.6	0.01	0.001	0.0001	0.001	0.001	0.002	0.05	0.001	0.002	0.0001
	Dec-24	No	17.6	87.4	9.4	278.1	473	8.24	252	6.7	0.01	0.001	0.0001	0.001	0.001	0.002	0.05	0.001	0.005	0.0001
	Jan-25	Yes	17.8	76.9	9.1	128.7	563	8.05	198	14.89	0.01	0.001	0.0001	0.001	0.001	0.002	0.07	0.001	0.041	0.0001
	Feb-25	Yes	18.6	79.2	9.3	136.1	591	7.80	187	7.23	0.01	0.001	0.0001	0.001	0.001	0.002	0.06	0.001	0.105	0.0001
	Mar-25	Yes	22	59.6	8.7	134.7	610	7.62	173	9.64	0.08	0.004	0.0001	0.001	0.015	0.002	2.51	0.001	0.597	0.0001
	Apr-25	Yes	17.9	54.1	8.9	131	645	7.52	207	50.12	0.01	0.003	0.0001	0.001	0.001	0.002	1.38	0.001	0.997	0.0001
	May-25	Yes	11.2	37.1	-	134	-	7.47	-	71.43	0.01	0.003	0.0001	0.001	0.001	0.002	1.9	0.001	0.736	0.0001
	Jun-25	No	9	68.5	-	136.5	94.9	7.25	112.7	1.32	0.01	0.001	0.0001	0.001	0.001	0.002	0.75	0.001	0.261	0.0001
	Jul-25	No	8.1	83.7	-	78.3	53.1	9.10	185.7	36.35	0.09	0.001	0.0001	0.001	0.001	0.002	0.07	0.001	0.001	0.0001
	Aug-25	No	14.8	96.7	-	67.2	54.1	7.80	287.5	6.39	0.01	0.001	0.0001	0.001	0.001	0.001	0.005	0.001	0.009	0.001
	Sep-25	No	9.6	91.9	-	527	372	8.00	174.7	6.43	0.01	0.001	0.0001	0.001	0.001	0.002	0.005	0.001	0.006	0.0001
	Oct-25	No	17.2	96.2	-	674	57	7.86	125.1	2.62	0.01	0.001	0.0001	0.001	0.001	0.002	0.5	0.001	0.011	0.0001
	Nov-25	No flow	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Dec-25	No	21.6	72.3	-	61.9	57.9	7.72	117	5.58	0.01	0.001	0.0001	0.001	0.001	0.002	0.16	0.001	0.113	0.0001
	Jan-26	No flow	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Feb-26	No flow	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Mar-26	No flow	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
YR2-IS	Mar-24	No	12.3	88.5	9.47	130.8	99.1	7.93	43.2	0.1	0.03	0.00015	0.00001	0.000005	0.001	0.001	0.02	0.005	0.001	0.000015
	Apr-24	No	11.8	97.1	-	139.7	-	8.52	-	1.16	0.01	0.001	0.0001	0.001	0.001	0.002	0.05	0.001	0.003	0.0001
	May-24	No	2.5	94.7	-	142.1	-	7.77	-	0.343	0.01	0.001	0.0001	0.001	0.001	0.024	0.05	0.001	0.004	0.0001
	Jun-24	No	4.7	97.1	-	118.6	-	7.24	-	0	0.02	0.001	0.0001	0.001	0.001	0.002	0.05	0.001	0.003	0.0001
	Jul-24	No	5.9	93.5	-	58.4	-	6.78	-	8.87	0.17	0.001	0.0001	0.001	0.001	0.002	0.12	0.001	0.002	0.0001
	Aug-24	No	9.3	93.5	-	58.5	-	7.96	-	6.97	0.06	0.001	0.0001	0.001	0.001	0.002	0.05	0.001	0.002	0.0001
	Sep-24	No	13.4	93.8	-	66.7	-	7.62	-	1.56	0.04	0.001	0.0001	0.001	0.001	0.002	0.05	0.001	0.005	0.0001
	Oct-24	No	11.6	93.7	-	69.9	-	7.34	-	1.8	0.03	0.001	0.0001	0.001	0.001	0.002	0.05	0.001	0.002	0.0001
	Nov-24	No	15.7	92.1	10	62	111	7.92	235	0.6	0.01	0.001	0.0001	0.001	0.001	0.002	0.05	0.001	0.002	0.0001
	Dec-24	No	13.6	90.3	9.8	44.1	75	7.84	220	5.64	0.09	0.001	0.0001	0.001	0.001	0.002	0.06	0.001	0.001	0.0001
	Jan-25	No	28.9	90.5	8.8	28.5	123	8.09	226	1.32	0.01	0.001	0.0001	0.001	0.001	0.002	0.05	0.001	0.004	0.0001
	Feb-25	No	19.3	91.3	9.4	23.3	109	7.97	170	5.89	0.11	0.001	0.0001	0.001	0.001	0.002	0.11	0.001	0.005	0.0001
	Mar-25	No	22.2	102.1	9.5	39.9	182	8.55	158	0.89	0.01	0.001	0.0001	0.001	0.001	0.002	0.05	0.001	0.003	0.0001
	Apr-25	No	18.1	95.3	10.5	37.7	178	8.46	195	0.94	0.01	0.001	0.0001	0.001	0.001	0.002	0.05	0.001	0.003	0.0001
	May-25	No	10.8	96.8	-	35.7	26	8.87	110.1	1.27	0.01	0.001	0.0001	0.001	0.001	0.002	0.05	0.001	0.001	0.0001
	Jun-25	No	5.9	89.8	-	18.2	12.6	8.66	112.7	11.92	0.26	0.001	0.0001	0.001	0.002	0.002	0.18	0.001	0.004	0.0001
	Jul-25	No	8.1	86.0	-	11.2	7.6	9.10	191.5	11.35	0.07	0.001	0.0001	0.001	0.001	0.002	0.05	0.001	0.002	0.0001
	Aug-25	No	12.1	97.7	-	15.4	11.6	7.60	294	6.18	0.8	0.001	0.0001	0.001	0.001	0.002	0.05	0.001	0.01	0.0001
	Sep-25	No	5.6	94.6	-	64.7	40.8	8.10	177.7	2	0.03	0.001	0.0001	0.001	0.001	0.002	0.05	0.001	0.003	0.0001
	Oct-25	No	14.3	100.2	-	102.2	81.1	7.78	112.6	1.44	0.05	0.001	0.0001	0.001	0.001	0.002	0.05	0.001	0.001	0.0001
	Nov-25	No	16.9	79.5	-	116.1	98.1	7.79	168.2	0.63	0.02	0.001	0.0001	0.001	0.011	0.002	0.05	0.001	0.002	0.0001
	Dec-25	No	18.2	81.4	-	109.7	95.5	8.13	131.5	4.63	0.1	0.001	0.0001	0.001	0.001	0.002	0.06	0.001	0.005	0.0001
	Jan-26	No	24.2	91.8	-	256.4	252.6	8.29	114.4	6.37	0.01	0.001	0.0001	0.001	0.001	0.002	0.05	0.001	0.004	0.0001
	Feb-26	No	24.7	95.1	-	205.5	204.2	8.29	134.0	1.37	0.01	0.001	0.0001	0.001	0.001	0.002	0.05	0.001	0.004	0.0001
	Mar-26	No	23.0	90.6	-	152.4	146.5	8.18	90.7	3.39	0.02	0.001	0.0001	0.001	0.001	0.002	0.05	0.001	0.004	0.0001

	Reference Site exceeds SSGV
	Impact Site Result exceeds SSGV or DGV
<i>italics</i>	Result exceeds the Limit of Reporting

		Dissolved Ni (mg/L)	TN (mg/L)	TP (mg/L)	Dissolved Ag (mg/L)	Dissolved Zn (mg/L)	Ammonia (mg/L)	Nitrogen Oxides (mg/L)	Reactive Phosphorus (mg/L)	Total Hardness (mg/L) (CaCO3)	Total Kjeda hl Nitrogen (mg/L) (TKN)	TDS (mg/L)	TSS (mg/L)	Total Al (mg/L)	Total As (mg/L)	Total Cd (mg/L)	Total Cr (mg/L)	Total Cu (mg/L)	Total Pb (mg/L)	Total Mn (mg/L)	Total Ni (mg/L)	Total Ag (mg/L)	Total Zn (mg/L)	Total Fe (mg/L)	Total Hg (mg/L)	
Parameter																										
YARRANGOBILLY CATCHMENT																										
Default Guideline Value (DGV)		0.008	0.25	0.02	0.00002	0.0024	0.013	0.015	0.015	-	-	-	0.2	0.027	0.0008	0.0006	0.00001	0.001	0.001	1.2	0.008	0.00002	0.0024	0.3	0.0006	
Limit of Reporting (LOR)		0.001	0.1	0.01	0.001	0.005	0.010	0.010	0.010	1	0.1	10	1	0.01	0.001	0.0001	0.001	0.001	0.001	0.001	0.001	0.001	0.005	0.05	0.0001	
Dec - May Site Specific Guideline Value (SSGV)		0.001	0.2	0.02	0.00002	0.002	0.013	0.015	0.020	47	0.2	52	0.2													
June - Nov SSGV		0.001	0.2	0.02	0.00002	0.002	0.013	0.015	0.015	30	0.2	39	1.0													
LHG-IS	Mar-24	0.003	0.1	0.01	0.00001	0.006	0.050	0.05	0.005	297	1	330	20													
	Apr-24	0.001	0.5	0.09	0.001	0.005	0.020	0.02	-	332	0.02	-	70	0.25	0.003	0.0001	0.001	0.002	0.001	0.51	0.006	0.001	0.009	2.22	0.0001	
	May-24	0.001	0.5	0.05	0.001	0.005	0.040	0.06	0.01	365	0.4	402	5	0.07	0.001	0.0001	0.001	0.001	0.001	0.177	0.001	0.001	0.005	1.09	0.0001	
	Jun-24	0.001	0.2	0.04	0.001	0.005	0.020	0.02	0.01	313	0.2	339	17	0.38	0.002	0.0001	0.001	0.001	0.001	0.282	0.001	0.001	0.005	1.54	0.0001	
	Jul-24	0.001	0.1	0.01	0.001	0.005	0.010	0.01	0.01	250	0.1	324	10	0.53	0.001	0.0001	0.001	0.002	0.001	0.033	0.001	0.001	0.005	0.16	0.0001	
	Aug-24	0.001	0.1	0.01	0.001	0.006	0.020	0.01	0.01	282	0.1	360	9	0.09	0.001	0.0001	0.001	0.001	0.001	0.026	0.001	0.001	0.005	0.17	0.0001	
	Sep-24	0.001	0.1	0.09	0.001	0.006	0.010	0.01	0.01	294	0.1	394	10	0.06	0.001	0.0001	0.001	0.001	0.001	0.051	0.001	0.001	0.005	0.19	0.0001	
	Oct-24	0.001	0.1	0.02	0.001	0.005	0.020	0.01	0.01	312	0.1	362	3	0.04	0.001	0.0001	0.001	0.001	0.001	0.034	0.001	0.001	0.005	0.26	0.0001	
	Nov-24	0.001	0.1	0.01	0.001	0.005	0.100	0.01	0.01	307	0.1	363	16	0.15	0.001	0.0001	0.001	0.001	0.001	0.023	0.001	0.001	0.005	0.21	0.0001	
	Dec-24	0.001	0.1	0.02	0.001	0.005	0.010	0.01	0.01	264	0.1	298	7	0.13	0.001	0.0001	0.001	0.001	0.001	0.014	0.001	0.001	0.005	0.12	0.0001	
	Jan-25	0.001	0.1	0.04	0.001	0.005	0.030	0.01	0.01	333	0.1	362	33	0.26	0.002	0.0001	0.001	0.001	0.001	0.219	0.001	0.001	0.005	1.13	0.0001	
	Feb-25	0.001	0.3	0.08	0.001	0.005	0.010	0.06	0.01	333	0.2	378	11	0.09	0.001	0.0001	0.001	0.001	0.001	0.121	0.001	0.001	0.007	0.41	0.0001	
	Mar-25	0.001	0.3	0.1	0.001	0.005	0.070	0.04	0.01	326	0.3	372	50	0.1	0.001	0.0001	0.001	0.01	0.001	0.559	0.001	0.001	0.006	4.16	0.0001	
	Apr-25	0.001	0.4	0.16	0.001	0.006	0.030	0.01	0.01	348	0.4	372	64	0.55	0.01	0.0001	0.001	0.002	0.001	1.17	0.001	0.001	0.008	8.45	0.0001	
	May-25	0.001	0.2	0.44	0.001	0.005	0.040	0.03	0.01	333	0.2	406	131	0.61	0.019	0.0001	0.001	0.001	0.002	2.22	0.002	0.001	0.009	19.2	0.0001	
	Jun-25	0.001	0.2	0.02	0.001	0.006	0.030	0.01	0.01	333	0.2	452	9	0.22	0.001	0.0001	0.001	0.001	0.001	0.281	0.001	0.001	0.005	1.32	0.0001	
	Jul-25	0.001	0.2	0.04	0.001	0.005	0.020	0.03	0.01	177	0.2	247	68	0.46	0.001	0.0001	0.001	0.001	0.001	0.134	0.001	0.001	0.005	1.04	0.0001	
	Aug-25	0.001	0.1	0.01	0.001	0.005	0.020	0.1	0.01	277	0.1	346	12	0.05	0.001	0.0001	0.001	0.001	0.001	0.014	0.001	0.001	0.005	0.09	0.0001	
	Sep-25	0.001	0.1	0.04	0.001	0.005	0.030	0.01	0.01	265	0.1	350	1	0.08	0.001	0.0001	0.001	0.001	0.001	0.008	0.001	0.001	0.005	0.07	0.0001	
	Oct-25	0.001	0.1	0.01	0.001	0.005	0.010	0.01	0.01	264	0.1	344	2	0.05	0.001	0.0001	0.001	0.001	0.001	0.016	0.001	0.001	0.006	0.1	0.0001	
	Nov-25		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Dec-25		0.001	0.2	0.03	0.001	0.005	0.040	0.01	0.01	267	0.2	470	14	0.1	0.001	0.0001	0.001	0.001	0.001	0.11	0.001	0.001	0.005	0.38	0.0001
	Jan-26		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Feb-26		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Mar-26		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
YR2-IS	Mar-24	0.001	0.1	0.005	0.00001	0.001	0.050	0.05	0.005	27	1	58	0.1													
	Apr-24	0.001	0.1	0.01	0.001	0.005	0.010	0.01	-	61	0.01	-	5	0.02	0.001	0.0001	0.001	0.001	0.001	0.004	0.001	0.001	0.005	0.05	0.0001	
	May-24	0.001	0.8	0.03	0.001	0.007	0.020	0.34	0.01	68	0.5	98	5	0.01	0.001	0.0001	0.001	0.001	0.001	0.002	0.001	0.001	0.007	0.05	0.0001	
	Jun-24	0.001	0.1	0.01	0.001	0.005	0.010	0.01	0.01	51	0.1	76	1	0.03	0.001	0.0001	0.001	0.001	0.001	0.002	0.001	0.001	0.005	0.05	0.0001	
	Jul-24	0.001	0.4	0.03	0.001	0.005	0.010	0.24	0.01	26	0.2	46	10	0.17	0.001	0.0001	0.001	0.001	0.001	0.012	0.001	0.001	0.007	0.16	0.0001	
	Aug-24	0.001	0.1	0.01	0.001	0.005	0.010	0.01	0.01	33	0.1	59	4	0.11	0.001	0.0001	0.001	0.001	0.001	0.005	0.001	0.001	0.005	0.09	0.0001	
	Sep-24	0.001	0.1	0.02	0.001	0.005	0.010	0.01	0.01	46	0.1	68	3	0.07	0.001	0.0001	0.001	0.001	0.001	0.006	0.001	0.001	0.005	0.07	0.0001	
	Oct-24	0.001	0.2	0.05	0.001	0.005	0.010	0.01	0.01	43	0.2	71	1	0.07	0.001	0.0001	0.001	0.001	0.001	0.002	0.001	0.001	0.005	0.08	0.0001	
	Nov-24	0.001	0.1	0.05	0.001	0.005	0.010	0.02	0.01	51	0.1	77	1	0.04	0.001	0.0001	0.001	0.001	0.001	0.005	0.001	0.001	0.005	0.05	0.0001	
	Dec-24	0.001	0.1	0.01	0.001	0.005	0.020	0.08	0.01	33	0.1	55	6	0.21	0.001	0.0001	0.001	0.001	0.001	0.007	0.001	0.001	0.005	0.18	0.0001	
	Jan-25	0.001	0.2	0.01	0.001	0.005	0.010	0.01	0.01	63	0.2	87	1	0.2	0.001	0.0001	0.001	0.001	0.001	0.004	0.001	0.001	0.005	0.05	0.0001	
	Feb-25	0.001	0.4	0.02	0.001	0.005	0.020	0.05	0.01	48	0.3	72	5	0.2	0.001	0.0001	0.001	0.001	0.001	0.01	0.001	0.001	0.005	0.21	0.0001	
	Mar-25	0.001	0.1	0.01	0.001	0.005	0.010	0.01	0.01	90	0.1	104	1	0.01	0.001	0.0001	0.001	0.001	0.001	0.004	0.001	0.001	0.005	0.05	0.0001	
	Apr-25	0.001	0.1	0.04	0.001	0.005	0.020	0.02	0.01	87	0.1	100	1	0.01	0.001	0.0001	0.001	0.001	0.001	0.004	0.001	0.001	0.005	0.05		

		Sheen/ oil/ grease	Temp. (°C)	Dissolved Oxygen (DO %)	DO (ppm)	Specific EC (SPC uS/cm)	EC (uS/cm)	pH	Redox (mV)	Turbidity (NTU)	Dissolved Al (mg/L)	Dissolved As (mg/L)	Dissolved Cd (mg/L)	Dissolved Cr (mg/L)	Dissolved Cu (mg/L)	Cyanide (mg/L)	Dissolved Fe (mg/L)	Dissolved Pb (mg/L)	Dissolved Mn (mg/L)	Dissolved Hg (mg/L)
Parameter																				
YARRANGOBILLY CATCHMENT																				
Default Guideline Value (DGV)		No	-	90-110	-	30-350	30-350	6.5-8	-	2-25	0.027	0.0008	0.0006	0.00001	0.001	0.004	0.3	0.001	1.2	0.00006
Limit of Reporting (LOR)										0.1	0.01	0.001	0.0001	0.001	0.001	0.002	0.05	0.001	0.001	0.0001
Dec - May Site Specific Guideline Value (SSGV)				96.2	9.08	115	93.2	7.85	79.1	0.37	0.03	0.0003	0.00002	0.00001	0.0002	0.002	0.03	0.001	0.002	0.00003
June - Nov SSGV				89.7	10.28	88	60.85	7.62	98.4	5.12	0.04	0.0003	0.00002	0.00001	0.0002	0.002	0.02	0.001	0.002	0.00003
SSC-IS	Mar-24	No Flow	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Apr-24	No Flow	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	May-24	No Flow	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Jun-24	No Flow	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Jul-24	No	8	90.1	-	152.6	-	6.29	-	17.88	0.1	0.001	0.0001	0.001	0.001	0.002	0.07	0.001	0.002	0.0001
	Aug-24	No	12.1	94.0	-	120.9	-	7.78	-	3.9	0.04	0.001	0.0001	0.001	0.001	0.002	0.05	0.001	0.001	0.0001
	Sep-24	No	12.2	84.1	-	122.2	-	7.10	-	3.53	0.05	0.001	0.0001	0.001	0.003	0.002	0.05	0.001	0.002	0.0001
	Oct-24	No	10.1	81.5	-	110.3	-	6.83	-	8.9	0.08	0.001	0.0001	0.001	0.001	0.002	0.05	0.001	0.001	0.0001
	Nov-24	No Flow	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Dec-24	No	18.8	90.7	9.4	68.5	118	7.97	188	44.29	0.08	0.001	0.0001	0.001	0.001	0.002	0.05	0.001	0.001	0.0001
	Jan-25	No Flow	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Feb-25	No Flow	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Mar-25	No Flow	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Apr-25	No Flow	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	May-25	No Flow	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Jun-25	No Flow	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Jul-25	No	9.4	84.5	-	20.2	14.2	9.10	177.5	37.69	0.49	0.001	0.0001	0.001	0.001	0.002	0.31	0.001	0.001	0.0001
	Aug-25	No Flow	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Sep-25	No	9.9	93.1	-	118.5	84.4	8.20	171.2	4.33	0.05	0.001	0.0001	0.001	0.001	0.002	0.05	0.001	0.001	0.0001
	Oct-25	No Flow	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Nov-25	No Flow	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Dec-25	No Flow	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Jan-26	No Flow	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Feb-26	No Flow	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Mar-26	No Flow	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

	Reference Site exceeds SSGV
	Impact Site Result exceeds SSGV or DGV
<i>italics</i>	Result exceeds the Limit of Reporting

Parameter		Dissolved Ni (mg/L)	TN (mg/L)	TP (mg/L)	Dissolved Ag (mg/L)	Dissolved Zn (mg/L)	Ammonia (mg/L)	Nitrogen Oxides (mg/L)	Reactive Phosphorus (mg/L)	Total Hardness (mg/L) (CaCO3)	Total Kjeda hl Nitrogen (mg/L) (TKN)	TDS (mg/L)	TSS (mg/L)	Total Al (mg/L)	Total As (mg/L)	Total Cd (mg/L)	Total Cr (mg/L)	Total Cu (mg/L)	Total Pb (mg/L)	Total Mn (mg/L)	Total Ni (mg/L)	Total Ag (mg/L)	Total Zn (mg/L)	Total Fe (mg/L)	Total Hg (mg/L)
YARRANGOBILLY CATCHMENT																									
Default Guideline Value (DGV)		0.008	0.25	0.02	0.00002	0.0024	0.013	0.015	0.015	-	-	-	0.2	0.027	0.0008	0.0006	0.00001	0.001	0.001	1.2	0.008	0.00002	0.0024	0.3	0.00006
Limit of Reporting (LOR)		0.001	0.1	0.01	0.001	0.005	0.010	0.010	0.010	1	0.1	10	1	0.01	0.001	0.0001	0.001	0.001	0.001	0.001	0.001	0.001	0.005	0.05	0.0001
Dec - May Site Specific Guideline Value (SSGV)		0.001	0.2	0.02	0.00002	0.002	0.013	0.015	0.020	47	0.2	52	0.2												
June - Nov SSGV		0.001	0.2	0.02	0.00002	0.002	0.013	0.015	0.015	30	0.2	39	1.0												
SSC-IS	Mar-24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Apr-24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	May-24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Jun-24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Jul-24	0.001	1.8	0.03	0.001	0.024	0.030	0.85	0.01	62	0.9	110	1	0.09	0.001	0.0001	0.001	0.001	0.001	0.006	0.001	0.001	0.025	0.4	0.0001
	Aug-24	0.001	0.1	0.01	0.001	0.005	0.010	0.01	0.01	62	0.1	110	5	0.21	0.001	0.0001	0.001	0.001	0.001	0.001	0.001	0.001	0.005	0.09	0.0001
	Sep-24	0.001	0.7	0.03	0.001	0.036	0.010	0.07	0.01	65	0.6	108	5	0.10	0.001	0.0001	0.001	0.003	0.001	0.004	0.001	0.001	0.026	0.08	0.0001
	Oct-24	0.001	0.4	0.02	0.001	0.005	0.010	0.18	0.01	58	0.2	100	1	0.13	0.001	0.0001	0.001	0.001	0.001	0.001	0.001	0.001	0.005	0.1	0.0001
	Nov-24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Dec-24	0.001	0.1	0.01	0.001	0.005	0.01	0.01	0.01	53	0.1	85	6	0.57	0.001	0.0001	0.001	0.001	0.001	0.013	0.001	0.001	0.005	0.41	0.0001
	Jan-25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Feb-25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Mar-25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Apr-25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	May-25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Jun-25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Jul-25	0.002	0.2	0.05	0.001	0.005	0.16	0.01	0.01	39	0.2	71	6	1.64	0.001	0.0001	0.002	0.001	0.003	0.015	0.002	0.001	0.008	1.16	0.0001
	Aug-25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Sep-25	0.001	0.1	0.02	0.001	0.005	0.01	0.01	0.01	44	0.1	71	2	0.5	0.001	0.0001	0.001	0.001	0.001	0.003	0.001	0.001	0.005	0.29	0.002
	Oct-25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Nov-25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Dec-25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Jan-26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Feb-26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Mar-26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

	Reference Site exceeds SSGV
	Impact Site Result exceeds SSGV or DGV
<i>italics</i>	Result exceeds the Limit of Reporting

			Sheen/ oil/ grease	Temp. (°C)	Dissolved Oxygen (DO %)	Specific EC (SPC uS/cm)	EC (uS/cm)	pH	Redox (mV)	Turbidity (NTU)	Dissolved Al (mg/L)	Dissolved As (mg/L)	Dissolved Cd (mg/L)	Dissolved Cr (mg/L)	Dissolved Cu (mg/L)	Cyanide (mg/L)	Dissolved Fe (mg/L)	Dissolved Pb (mg/L)	Dissolved Mn (mg/L)	Dissolved Hg (mg/L)
Parameter																				
TALBINGO RESERVOIR																				
DGV		No	-	90-110	-	30-350	30-350	6.5-8	-	2-25	0.027	0.0008	0.0006	0.00001	0.001	0.004	0.3	0.001	1.2	0.00006
LOR				-	-	-	-	-	-	0.1	0.01	0.001	0.0001	0.001	0.001	0.002	0.05	0.001	0.001	0.0001
Dec - May SSGV				91.3	8.79	24.0	20.3	7.59	91.2	0.09	0.03	0.003	0.00002	0.00001	0.0002	0.002	0.04	0.001	0.003	0.00003
June - Nov SSGV				95.5	11.53	38.7	26.2	7.59	95.4	1.56	0.015	0.0003	0.00002	0.00001	0.0002	0.002	0.02	0.001	0.002	0.00003
TR-RS	Mar-24	No	13.4	72.5	7.57	24	18.7	7.10	55	0.10	0.015	0.00015	0.00001	0.000005	0.0001	0.001	0.05	0.005	0.005	0.000015
	Apr-24	No	12.2	85.9	-	25.9	-	7.17	-	0.02	0.01	0.001	0.0001	0.001	0.005	0.002	0.05	0.001	0.026	0.0001
	May-24	No	10.1	91.5	-	30.2	-	6.80	-	0.65	0.01	0.001	0.0001	0.001	0.001	0.004	0.05	0.001	0.002	0.0001
	Jun-24	No	8.7	91.6	-	26.4	-	8.32	-	0.10	0.01	0.001	0.0001	0.001	0.001	0.002	0.05	0.001	0.010	0.0001
	Jul-24	No	6	92.1	-	28.7	-	7.76	-	1.35	0.02	0.001	0.0001	0.001	0.001	0.002	0.05	0.001	0.003	0.0001
	Aug-24	No	12.7	91.5	-	26.3	-	6.67	-	2.0	0.02	0.001	0.0001	0.001	0.001	0.002	0.05	0.001	0.002	0.0001
	Sep-24	No	10.2	96.2	-	25	-	7.78	-	0.58	0.02	0.001	0.0001	0.001	0.001	0.002	0.05	0.001	0.002	0.0001
	Oct-24	No	9.5	95.2	-	15.3	-	7.78	-	1.7	0.04	0.001	0.0001	0.001	0.001	0.002	0.05	0.001	0.008	0.0001
	Nov-24	No	15.6	92.1	9.7	55	55	7.73	271	1.6	0.01	0.001	0.0001	0.001	0.001	0.002	0.05	0.001	0.05	0.0001
	Dec-24	No	22.8	95.5	9.1	22.2	38	7.97	200	3.76	0.02	0.001	0.0001	0.001	0.001	0.002	0.05	0.001	0.001	0.0001
	Jan-25	No	25.7	91.6	9.1	27.8	44	7.23	234	1.61	0.01	0.001	0.0001	0.001	0.001	0.002	0.05	0.001	0.001	0.0001
	Feb-25	No	24.6	94.8	9.1	8.7	40	7.61	168	2.16	0.01	0.001	0.0001	0.001	0.001	0.002	0.05	0.001	0.002	0.0001
	Mar-25	No	21.3	90.1	8.9	8.3	36	7.56	138	3.25	0.01	0.001	0.0001	0.001	0.001	0.002	0.05	0.001	0.002	0.0001
	Apr-25	No	17.6	67.6	9.9	5.8	26	6.96	190	1.3	0.01	0.001	0.0001	0.001	0.001	0.002	0.05	0.001	0.03	0.0001
	May-25	No	12.3	88.6	-	5.9	4.5	7.59	109.8	1.68	0.01	0.001	0.0001	0.001	0.001	0.002	0.05	0.001	0.003	0.0001
	Jun-25	No	10.5	86.4	-	6.1	4.4	8.34	111.9	3.15	0.02	0.001	0.0001	0.001	0.001	0.002	0.05	0.001	0.008	0.0001
	Jul-25	No	7.9	90	-	6.5	4.4	7.78	168.1	7.5	0.1	0.001	0.0001	0.001	0.001	0.002	0.18	0.001	0.011	0.0001
	Aug-25	No	12.5	103.6	-	5.8	4.5	7.1	246.8	6.08	0.01	0.001	0.0001	0.001	0.001	0.002	0.05	0.001	0.002	0.0001
	Sep-25	No	11.3	95.6	-	41.3	30.5	4.9	107.8	1.92	0.02	0.001	0.0001	0.001	0.001	0.002	0.05	0.001	0.003	0.0001
	Oct-25	No	13.2	45.9	-	47	36.4	7.35	136.6	1.46	0.02	0.001	0.0001	0.001	0.001	0.002	0.05	0.001	0.001	0.0001
	Nov-25	No	18.8	80.7	-	40	37.9	6.91	184.3	1.15	0.01	0.001	0.0001	0.001	0.001	0.002	0.05	0.001	0.003	0.001
	Dec-25	No	18.3	78.1	-	41.2	36	7.45	155.3	3.59	0.01	0.001	0.0001	0.001	0.001	0.002	0.05	0.001	0.002	0.0001
	Jan-26	No	24.5	93.4	-	47.4	46.9	7.92	134.4	1.83	0.02	0.002	0.0001	0.001	0.001	0.002	0.05	0.001	0.001	0.0001
	Feb-26	No	17.6	79.1	-	122.3	105.0	7.4	122.1	2.67	0.01	0.001	0.0001	0.001	0.001	0.002	0.05	0.001	0.007	0.0001
	Mar-26	No	19.9	86.3		37.9	34.2	7.23	186.9	2.57	0.01	0.001	0.0001	0.001	0.001	0.002	0.05	0.001	0.001	0.0001

	Reference Site exceeds SSGV
	Impact Site Result exceeds SSGV or DGV
<i>italics</i>	Result exceeds the Limit of Reporting

Parameter		Dissolved Ni (mg/L)	TN (mg/L)	TP (mg/L)	Dissolved Ag (mg/L)	Dissolved Zn (mg/L)	Ammonia (mg/L)	Nitrogen Oxides (mg/L)	Reactive Phosphorus (mg/L)	Total Hardness (mg/L) (CaCO3)	Total Kjeda hl Nitrogen (mg/L) (TKN)	TDS (mg/L)	TSS (mg/L)	Total Al (mg/L)	Total As (mg/L)	Total Cd (mg/L)	Total Cr (mg/L)	Total Cu (mg/L)	Total Pb (mg/L)	Total Mn (mg/L)	Total Ni (mg/L)	Total Ag (mg/L)	Total Zn (mg/L)	Total Fe (mg/L)	Total Hg (mg/L)
TALBINGO RESERVOIR																									
DGV		0.008	0.25	0.02	0.00002	0.0024	0.013	0.015	0.015	-	-	-	0.2	0.027	0.0008	0.0006	0.00001	0.001	0.001	1.2	0.008	0.00002	0.0024	0.3	0.00006
LOR		0.001	0.1	0.01	0.001	0.005	0.010	0.010	0.01	1	0.1	10	1	0.01	0.001	0.0001	0.001	0.001	0.001	0.001	0.001	0.001	0.005	0.05	0.0001
Dec - May SSGV		0.001	0.2	0.02	0.00002	0.002	0.013	0.015	0.02	7.5	0.1	12.5	0.2												
June - Nov SSGV		0.001	0.2	0.02	0.00002	0.002	0.013	0.015	0.015	8	0.2	15	0.2												
TR-RS	Mar-24	0.0005	0.1	0.01	0.00001	0.001	0.050	0.05	0.005	8	0.1	44	0.1												
	Apr-24	0.001	1.3	0.02	0.001	0.066	0.030	0.12	-	5	0.12	-	3	0.02	0.001	0.0001	0.001	0.006	0.001	0.039	0.002	0.001	0.067	0.07	0.0001
	May-24	0.001	0.3	0.03	0.001	0.023	0.020	0.03	0.01	5	0.3	35	5	0.03	0.001	0.0001	0.001	0.001	0.001	0.033	0.001	0.001	0.012	0.06	0.0001
	Jun-24	0.001	2.3	0.01	0.001	0.005	0.010	1.92	0.01	5	0.4	17	2	0.03	0.001	0.0001	0.001	0.001	0.001	0.056	0.001	0.001	0.005	0.07	0.0001
	Jul-24	0.001	0.1	0.02	0.001	0.005	0.030	0.04	0.01	5	0.1	17	2	0.05	0.001	0.0001	0.001	0.001	0.001	0.014	0.001	0.001	0.005	0.06	0.0001
	Aug-24	0.001	0.4	0.02	0.001	0.011	0.020	0.07	0.01	12	0.3	30	1	0.04	0.001	0.0001	0.001	0.001	0.001	0.004	0.001	0.001	0.008	0.05	0.0001
	Sep-24	0.001	0.2	0.03	0.001	0.005	0.010	0.06	0.01	14	0.1	27	2	0.06	0.001	0.0001	0.001	0.001	0.001	0.006	0.001	0.001	0.005	0.07	0.0001
	Oct-24	0.001	0.2	0.02	0.001	0.013	0.040	0.02	0.01	14	0.2	38	4	0.07	0.001	0.0001	0.001	0.001	0.001	0.01	0.001	0.001	0.005	0.11	0.0001
	Nov-24	0.001	0.1	0.05	0.001	0.005	0.010	0.02	0.01	21	0.1	45	5	0.14	0.001	0.0001	0.001	0.001	0.001	0.07	0.001	0.001	0.005	0.23	0.0001
	Dec-24	0.001	0.1	0.06	0.001	0.005	0.010	0.01	0.01	14	0.1	25	2	0.04	0.001	0.0001	0.001	0.001	0.001	0.007	0.001	0.001	0.007	0.06	0.0001
	Jan-25	0.001	0.2	0.02	0.001	0.005	0.020	0.01	0.01	17	0.2	46	6	0.03	0.001	0.0001	0.001	0.001	0.001	0.018	0.001	0.001	0.005	0.05	0.0001
	Feb-25	0.001	0.2	0.03	0.001	0.005	0.020	0.01	0.01	14	0.2	28	1	0.04	0.001	0.0001	0.001	0.001	0.001	0.017	0.001	0.001	0.005	0.07	0.0001
	Mar-25	0.001	0.2	0.03	0.001	0.005	0.010	0.01	0.01	14	0.2	28	1	0.04	0.001	0.0001	0.001	0.001	0.001	0.019	0.001	0.001	0.005	0.06	0.0001
	Apr-25	0.001	0.4	0.05	0.001	0.005	0.020	0.05	0.01	5	0.3	22	1	0.03	0.001	0.0001	0.001	0.001	0.001	0.051	0.001	0.001	0.005	0.09	0.0001
	May-25	0.001	0.2	0.07	0.001	0.005	0.030	0.01	0.02	9	0.2	16	1	0.01	0.001	0.0001	0.001	0.001	0.001	0.03	0.001	0.001	0.005	0.05	0.0001
	Jun-25	0.001	0.1	0.06	0.001	0.005	0.040	0.04	0.01	5	0.1	56	1	0.02	0.001	0.0001	0.001	0.001	0.001	0.046	0.001	0.001	0.005	0.05	0.0001
	Jul-25	0.001	0.1	0.03	0.001	0.005	0.020	0.1	0.01	9	0.1	22	5	0.16	0.001	0.0001	0.001	0.001	0.001	0.011	0.001	0.001	0.009	0.18	0.0001
	Aug-25	0.001	0.1	0.01	0.001	0.005	0.020	0.03	0.01	5	0.1	18	2	0.04	0.001	0.0001	0.001	0.001	0.001	0.006	0.001	0.001	0.005	0.05	0.0001
	Sep-25	0.001	3.2	0.02	0.001	0.006	0.020	2.66	0.01	14	0.5	46	1	0.03	0.001	0.0001	0.001	0.001	0.001	0.005	0.001	0.001	0.01	0.05	0.0001
	Oct-25	0.001	0.1	0.04	0.001	0.005	0.020	0.01	0.01	12	0.1	20	1	0.04	0.001	0.0001	0.001	0.001	0.001	0.004	0.001	0.001	0.005	0.05	0.0001
	Nov-25	0.001	0.2	0.04	0.001	0.021	0.010	0.01	0.01	14	0.2	31	1	0.05	0.001	0.0001	0.001	0.001	0.001	0.009	0.001	0.001	0.005	0.08	0.0001
	Dec-25	0.001	0.2	0.02	0.001	0.005	0.010	0.01	0.01	12	0.2	57	1	0.03	0.001	0.0001	0.001	0.001	0.001	0.008	0.001	0.001	0.005	0.05	0.0001
	Jan-26	0.001	1.1	0.01	0.001	0.005	0.010	0.86	0.01	14	0.2	24	1	0.09	0.001	0.0001	0.001	0.001	0.001	0.01	0.001	0.001	0.022	0.14	0.0001
	Feb-26	0.001	0.7	0.01	0.001	0.127	0.050	0.33	0.01	14	0.4	31	1	0.02	0.001	0.0001	0.001	0.001	0.001	0.015	0.001	0.001	0.087	0.08	0.0001
	Mar-26	0.001	0.3	0.01	0.001	0.005	0.050	0.02	0.01	14	0.3	28	1	0.04	0.001	0.0001	0.001	0.001	0.001	0.009	0.001	0.001	0.005	0.05	0.0001

	Reference Site exceeds SSGV
	Impact Site Result exceeds SSGV or DGV
<i>italics</i>	Result exceeds the Limit of Reporting

		Sheen/ oil/ grease	Temp. (°C)	Dissolved Oxygen (DO %)	DO (ppm)	Specific EC (SPC uS/cm)	EC (uS/cm)	pH	Redox (mV)	Turbidity (NTU)	Dissolved Al (mg/L)	Dissolved As (mg/L)	Dissolved Cd (mg/L)	Dissolved Cr (mg/L)	Dissolved Cu (mg/L)	Cyanide (mg/L)	Dissolved Fe (mg/L)	Dissolved Pb (mg/L)	Dissolved Mn (mg/L)	Dissolved Hg (mg/L)
Parameter																				
YORKERS CREEK CATCHMENT																				
DGV		No	-	90-110	-	30-350	30-350	6.5-8	-	2-25	0.027	0.0008	0.0006	0.00001	0.001	0.004	0.3	0.001	1.2	0.0006
LOR				-	-	-	-	-	-	0.1	0.01	0.001	0.0001	0.001	0.001	0.002	0.05	0.001	0.001	0.0001
Dec - May SSGV				89.6	8.35	31	24	6.79	94.6	9	0.36	0.003	0.00002	0.00001	0.002	0.002	0.41	0.001	0.005	0.00003
June - Nov SSGV				88.7	10.2	27.9	20.5	6.61	106.1	7.87	0.32	0.0003	0.00002	0.00001	0.0002	0.002	0.23	0.001	0.003	0.00003
YK-RS	Mar-24	Yes	16.3	82.5	8.09	31.5	26.2	6.69	64.5	12.24	0.6	0.00015	0.00001	0.000005	0.001	0.001	0.66	0.002	0.013	0.000015
	Apr-24	No	6.8	80.7	-	36.5	-	7.04	-	17.27	0.10	0.0001	0.0001	0.001	0.001	0.002	0.12	0.001	0.014	0.0001
	May-24	No	4.2	85.1	-	34.7	-	6.62	-	0.3	0.10	0.001	0.0001	0.001	0.001	0.004	0.17	0.001	0.026	0.0001
	Jun-24	No	3.5	84.2	-	30.1	-	7.99	-	26.48	0.09	0.001	0.0001	0.001	0.001	0.002	0.18	0.001	0.021	0.0001
	Jul-24	No	2.9	83.1	-	27.8	-	7.40	-	7.97	0.19	0.001	0.0001	0.001	0.001	0.002	0.21	0.001	0.010	0.0001
	Aug-24	No	7.3	82.7	-	21.6	-	6.89	-	19.36	0.33	0.001	0.0001	0.001	0.001	0.002	0.29	0.001	0.017	0.0001
	Sep-24	No	12.3	86.5	-	19.5	-	7.58	-	15.51	0.09	0.001	0.0001	0.001	0.001	0.002	0.16	0.001	0.013	0.0001
	Oct-24	No	18.3	87.8	-	21.8	-	7.55	-	17.9	0.14	0.001	0.0001	0.001	0.001	0.002	0.15	0.001	0.013	0.0001
	Nov-24	No	19.3	84.8	9	30	30	6.68	259	13.8	0.06	0.001	0.0001	0.001	0.001	0.002	0.12	0.001	0.014	0.0001
	Dec-24	No	22.9	82.6	8.3	18.7	31	7.52	238	19	0.13	0.001	0.0001	0.001	0.001	0.002	0.16	0.001	0.024	0.0001
	Jan-25	No	17.4	72.5	8.8	24.5	40	7.26	209	15.77	0.08	0.001	0.0001	0.001	0.001	0.002	0.15	0.001	0.015	0.0001
	Feb-25	Yes	22.8	76.3	8.9	8.6	38	7.09	174	21.19	0.18	0.001	0.0001	0.001	0.001	0.002	0.32	0.001	0.009	0.0001
	Mar-25	No	17.4	81.4	9.3	9.7	43	7.46	170	20.65	0.45	0.001	0.0001	0.001	0.001	0.002	0.3	0.001	0.009	0.0001
	Apr-25	No	11	77.6	10.2	8.6	39	7.64	148	15.23	0.12	0.001	0.0001	0.001	0.001	0.002	0.17	0.001	0.004	0.0001
	May-25	Yes	4.2	83.9	-	9.1	5.5	7.73	116.9	11.81	0.08	0.001	0.0001	0.001	0.001	0.002	0.14	0.001	0.004	0.0001
	Jun-25	No	5.4	83.0	-	7.8	4.9	8.24	114.3	14.6	0.19	0.001	0.0001	0.001	0.001	0.002	0.31	0.001	0.016	0.0001
	Jul-25	No Flow	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Aug-25	No Flow	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Sep-25	No	6.6	85.4	-	28.2	18.3	6.80	112.7	16.12	0.1	0.001	0.0001	0.001	0.001	0.002	0.15	0.001	0.011	0.0001
	Oct-25	No	9.9	40.7	-	38.9	27.3	6.80	134.9	10.07	0.14	0.001	0.0001	0.001	0.001	0.002	0.57	0.001	0.025	0.0001
	Nov-25	No	20.1	74.5	-	43.9	39.8	6.88	164.7	14.8	0.16	0.001	0.0001	0.001	0.001	0.002	0.25	0.001	0.015	0.0001
	Dec-25	No	11.1	58.9	-	55.2	40.5	6.84	151.7	32.56	0.26	0.001	0.0001	0.001	0.001	0.002	1.04	0.001	0.132	0.0001
	Jan-26	No Flow	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Feb-26	No Flow	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Mar-26	No Flow	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
YK-IS (D/S)	Mar-24	No	10	81.6	9.21	39.1	27.9	7.02	63.2	0.1	0.0065	0.00015	0.00001	0.000005	0.0001	0.001	0.26	0.0005	0.006	0.000015
	Apr-24	No	5.9	86.0	-	39.4	-	7.33	-	221.78	0.05	0.001	0.0001	0.001	0.001	0.002	0.11	0.001	0.014	0.0001
	May-24	No	3.1	85.9	-	39.6	-	6.59	-	0.8	0.09	0.001	0.0001	0.001	0.001	0.004	0.15	0.001	0.021	0.0001
	Jun-24	No	3.2	84.6	-	38.9	-	7.76	-	2.46	0.06	0.001	0.0001	0.001	0.001	0.002	0.1	0.001	0.009	0.0001
	Jul-24	No	3.2	85.0	-	32.8	-	7.11	-	8.29	0.28	0.001	0.0001	0.001	0.001	0.002	0.22	0.001	0.005	0.0001
	Aug-24	No	7.3	84.7	-	23.2	-	6.85	-	22.38	0.51	0.001	0.0001	0.001	0.001	0.002	0.34	0.001	0.011	0.0001
	Sep-24	No	9.3	84.5	-	26.9	-	7.52	-	3.34	0.07	0.001	0.0001	0.001	0.001	0.002	0.1	0.001	0.008	0.0001
	Oct-24	No	11.3	84.0	-	27	-	7.36	-	6.4	0.1	0.001	0.0001	0.001	0.001	0.002	0.12	0.001	0.010	0.0001
	Nov-24	No	13.5	83.3	9.4	38	38	7.17	268	5.5	0.05	0.001	0.0001	0.001	0.001	0.002	0.1	0.001	0.011	0.0001
	Dec-24	No	17.7	82.9	9.2	22.2	550	7.03	463	6.27	0.07	0.001	0.0001	0.001	0.001	0.002	0.1	0.001	0.004	0.0001
	Jan-25	No	16.2	79.2	9.2	28.2	48	7.40	233	2.44	0.04	0.001	0.0001	0.001	0.001	0.002	0.14	0.001	0.013	0.0001
	Feb-25	No	20.5	85.0	9.3	10.4	47	7.09	150	5.32	0.14	0.001	0.0001	0.001	0.001	0.002	0.24	0.001	0.016	0.0001
	Mar-25	No	15.9	89.2	9.6	10.7	48	7.32	152	3.01	0.07	0.001	0.0001	0.001	0.002	0.002	0.21	0.001	0.016	0.0001
	Apr-25	No	12.5	84.0	10.7	11.1	49	7.42	166	2.71	0.04	0.001	0.0001	0.001	0.001	0.002	0.1	0.001	0.018	0.0001
	May-25	No	5.4	85.5	-	10.6	6.6	7.54	111.1	2.84	0.05	0.001	0.0001	0.001	0.001	0.002	0.1	0.001	0.013	0.0001
	Jun-25	No	5.6	83.1	-	8.1	5.1	8.07	114.4	18.14	0.18	0.001	0.0001	0.001	0.001	0.002	0.3	0.001	0.01	0.0001
	Jul-25	No	5.7	81.6	-	6.4	4.1	7.95	170.2	18.25	0.45	0.001	0.0001	0.001	0.001	0.002	0.29	0.001	0.005	0.0001
	Aug-25	No	6.7	89.7	-	10.6	6.9	7.20	253.9	7.77	0.17	0.001	0.0001	0.001	0.001	0.002	0.15	0.001	0.009	0.0001
	Sep-25	No	7.1	87.9	-	35.8	23.5	6.10	115.3	4.58	0.6	0.001	0.0001	0.001	0.001	0.002	0.19	0.001	0.01	0.0001
	Oct-25	No	9.9	40.7	-	44.6	31.7	6.93	156.2	4.01	0.08	0.001	0.0001	0.001	0.001	0.002	0.1	0.001	0.008	0.0001
	Nov-25	No	15.5	68.9	-	24.6	20.2	6.96	165.7	4.4	0.09	0.001	0.0001	0.001	0.037	0.002	0.15	0.001	0.011	0.0001
	Dec-25	No	11.8	71.6	-	55.2	40.5	6.84	151.7	32.56	0.1	0.001	0.0001	0.001	0.001	0.002	0.16	0.001	0.011	0.0001
	Jan-26	No Flow	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Feb-26	No Flow	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Mar-26	No Flow	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

	Reference Site exceeds SSGV
	Impact Site Result exceeds SSGV or DGV
<i>italics</i>	Result exceeds the Limit of Reporting

	Reference Site exceeds SSGV	
	Impact Site Result exceeds SSGV or DGV	
<i>italics</i>	Result exceeds the Limit of Reporting	

		Sheen/ oil/ grease	Temp. (°C)	Dissolved Oxygen (DO %)	DO (ppm)	Specific EC (SPC uS/cm)	EC (uS/cm)	pH	Redox (mV)	Turbidity (NTU)	Dissolved Al (mg/L)	Dissolved As (mg/L)	Dissolved Cd (mg/L)	Dissolved Cr (mg/L)	Dissolved Cu (mg/L)	Cyanide (mg/L)	Dissolved Fe (mg/L)	Dissolved Pb (mg/L)	Dissolved Mn (mg/L)	Dissolved Hg (mg/L)
Parameter																				
YORKERS CREEK CATCHMENT																				
DGV		No	-	90-110	-	30-350	30-350	6.5-8	-	2-25	0.027	0.0008	0.0006	0.00001	0.001	0.004	0.3	0.001	1.2	0.00006
LOR				-	-	-	-	-	-	0.1	0.01	0.001	0.0001	0.001	0.001	0.002	0.05	0.001	0.001	0.0001
Dec - May SSGV				89.6	8.35	31	24	6.79	94.6	9	0.36	0.003	0.00002	0.00001	0.002	0.002	0.41	0.001	0.005	0.00003
June - Nov SSGV				88.7	10.2	27.9	20.5	6.61	106.1	7.87	0.32	0.0003	0.00002	0.00001	0.0002	0.002	0.23	0.001	0.003	0.00003
NZG-IS	Mar-24	No	9.6	80.2	9.13	64.2	45.3	7.45	31.1	0.1	0.14	0.00015	0.00001	0.000005	0.0001	0.001	0.18	0.0005	0.004	0.000015
	Apr-24	No	6.4	84.9	-	67.1	-	7.38	-	0.96	0.03	-	0.0001	0.0001	0.001	0.002	0.08	0.001	0.006	0.0001
	May-24	No	3.9	85.8	-	66.6	-	6.68	-	0.2	0.04	0.001	0.0001	0.001	0.001	0.004	0.07	0.001	0.007	0.0001
	Jun-24	No	4.4	82.7	-	64.1	-	8.14	-	0.89	0.04	0.001	0.0001	0.001	0.001	0.002	0.07	0.001	0.005	0.0001
	Jul-24	No	3.7	83.9	-	34.8	-	7.44	-	13.66	0.2	0.001	0.0001	0.001	0.001	0.002	0.18	0.001	0.004	0.0001
	Aug-24	No	7.7	84.4	-	28.9	-	6.95	-	15.47	0.44	0.001	0.0001	0.001	0.001	0.002	0.31	0.001	0.008	0.0001
	Sep-24	No	8.2	84.6	-	38.2	-	7.32	-	2.02	0.06	0.001	0.0001	0.001	0.001	0.002	0.08	0.001	0.004	0.0001
	Oct-24	No	11.1	84.5	-	39.6	-	7.47	-	5.3	0.08	0.001	0.0001	0.001	0.001	0.002	0.11	0.001	0.008	0.0001
	Nov-24	No	12.4	82.2	9.6	32.4	57	7.29	276	1.4	0.04	0.001	0.0001	0.001	0.001	0.002	0.06	0.001	0.005	0.0001
	Dec-24	No	17.3	84.8	9.2	32.8	52	7.30	304	3.79	0.04	0.001	0.0001	0.001	0.001	0.002	0.06	0.001	0.001	0.0001
	Jan-25	No	13.6	75.2	9.3	42.7	72	7.40	208	4.83	0.02	0.001	0.0001	0.001	0.001	0.005	0.05	0.001	0.004	0.0001
	Feb-25	No	19	87.1	9.3	16.6	75	7.42	176	2.72	0.07	0.001	0.0001	0.001	0.001	0.002	0.09	0.001	0.004	0.0001
	Mar-25	No	13.6	84.1	9.6	17.4	78	7.75	165	1.91	0.03	0.001	0.0001	0.001	0.001	0.002	0.07	0.001	0.005	0.0001
	Apr-25	No	9	78.4	10.7	16.6	75	8.24	177	2.03	0.05	0.001	0.0001	0.00005	0.001	0.002	0.1	0.001	0.007	0.0001
	May-25	No	3.7	80.3	-	16.4	9.7	7.71	117.1	1.78	0.02	0.001	0.0001	0.001	0.001	0.002	0.05	0.001	0.004	0.0001
	Jun-25	No	5.5	83.5	-	5.1	5.1	8.47	114.1	4.66	0.06	0.001	0.0001	0.001	0.001	0.002	0.14	0.001	0.006	0.0001
	Jul-25	No	5.7	81.2	-	14.8	5.1	7.97	169.7	9.32	0.18	0.001	0.0001	0.001	0.001	0.002	0.15	0.0001	0.003	0.0001
	Aug-25	No	8.8	89.4	-	12.1	8.4	7.10	250.3	23.99	0.12	0.001	0.0001	0.001	0.001	0.002	0.08	0.001	0.004	0.0001
	Sep-25	No	7.2	87.9	-	48.4	31.9	6.80	126.6	2.68	0.04	0.001	0.0001	0.001	0.001	0.002	0.06	0.001	0.004	0.0001
	Oct-25	No	10.1	39.9	-	65.1	46.6	7.06	152.3	3.28	0.08	0.001	0.0001	0.001	0.001	0.002	0.07	0.001	0.004	0.0001
	Nov-25	No	17.5	67.8	-	31.1	26.7	6.71	133.7	1.81	0.08	0.001	0.0002	0.001	0.509	0.002	0.08	0.013	0.006	0.0001
	Dec-25	No	11.5	69.2	-	101.2	75	7.41	142.2	5.55	0.04	0.001	0.0001	0.001	0.001	0.002	0.07	0.001	0.025	0.0001
	Jan-26	No	19.8	83.1	-	81.6	73.4	7.43	154.9	7.56	0.03	0.001	0.0001	0.001	0.001	0.002	0.05	0.001	0.007	0.0001
	Feb-26	No	12.8	76.8	-	106.0	81.2	8.29	127.9	5.29	0.03	0.001	0.0001	0.001	0.001	0.002	0.05	0.001	0.008	0.0001
	Mar-26	No	13.3	75.8	-	110.9	86.2	7.34	148	2.05	0.04	0.001	0.0001	0.001	0.001	0.002	0.09	0.001	0.007	0.0001
YK-IS	Mar-24	No	11.4	78.0	8.53	35	25.9	6.70	41.1	21.44	0.45	0.00015	0.00001	0.000005	0.001	0.001	0.4	0.0005	0.018	0.000015
	Apr-24	No	6.8	80.7	-	36.5	-	7.04	-	12.37	0.09	0.001	0.0001	0.001	0.001	0.002	0.15	0.001	0.016	0.0001
	May-24	No	4.7	82.7	-	35.8	-	6.43	-	0.2	0.06	0.001	0.0001	0.001	0.001	0.004	0.1	0.001	0.015	0.0001
	Jun-24	No	3.9	83.1	-	35.1	-	7.88	-	7.99	0.08	0.001	0.0001	0.001	0.001	0.002	0.15	0.001	0.010	0.0001
	Jul-24	No	3.2	82.8	-	32.5	-	7.00	-	11.9	0.31	0.001	0.0001	0.001	0.001	0.002	0.25	0.001	0.008	0.0001
	Aug-24	No	7.2	81.3	-	23.5	-	6.70	-	25.12	0.67	0.001	0.0001	0.001	0.001	0.002	0.46	0.001	0.015	0.0001
	Sep-24	No	9.3	83.4	-	23.8	-	7.41	-	6.24	0.09	0.001	0.0001	0.001	0.001	0.002	0.13	0.001	0.009	0.0001
	Oct-24	No	13.7	86.3	-	23.7	-	7.83	-	3.1	0.07	0.001	0.0001	0.001	0.001	0.002	0.06	0.001	0.004	0.0001
	Nov-24	No	14.7	83.3	9.3	27.7	32	7.17	279	4.6	0.06	0.001	0.0001	0.001	0.001	0.002	0.12	0.001	0.016	0.0001
	Dec-24	No	18.4	80.2	8.7	21.4	35	7.15	256	10.86	0.08	0.001	0.0001	0.001	0.001	0.002	0.16	0.001	0.017	0.0001
	Jan-25	No	16.1	69.0	8.7	25.7	43	7.09	232	1.98	0.01	0.001	0.0001	0.001	0.001	0.002	0.12	0.001	0.051	0.0001
	Feb-25	No	21	73.5	8.8	9.1	40	6.61	175	9.85	0.46	0.001	0.0001	0.001	0.001	0.002	0.46	0.001	0.036	0.0001
	Mar-25	No	17.6	71.4	8.8	10.5	45	6.77	161	13.54	0.02	0.001	0.0001	0.001	0.001	0.002	0.19	0.001	0.059	0.0001
	Apr-25	Yes	11.9	65.4	9.7	10.9	49	6.93	183	7.27	0.07	0.001	0.0001	0.001	0.001	0.002	0.19	0.001	0.036	0.0001
	May-25	No	4.9	70.3	-	9.7	6	7.21	15.8	5.62	0.08	0.001	0.0001	0.001	0.001	0.002	0.18	0.001	0.021	0.0001
	Jun-25	No	5.9	84.9	-	8.9	5.6	8.07	110.3	13.6	0.14	0.001	0.0001	0.001	0.001	0.002	0.25	0.001	0.01	0.0001
	Jul-25	No	5.7	81.2	-	7.9	5	7.97	169.7	9.32	0.26	0.001	0.0001	0.001	0.001	0.002	0.2	0.001	0.004	0.0001
	Aug-25	No	6.3	84.1	-	12.2	7.8	7.90	252.8	8.58	0.18	0.001	0.0001	0.001	0.001	0.002	0.14	0.001	0.006	0.0001
	Sep-25	No	7	84.2	-	30.6	20.1	7.00	122.5	7.52	0.1	0.001	0.0001	0.001	0.001	0.002	0.12	0.001	0.006	0.0001
	Oct-25	No	11	41.0	-	39.1	28.6	6.61	151.6	5.67	0.13	0.001	0.0001	0.001	0.001	0.002	0.14	0.001	0.009	0.0001
	Nov-25	No	17.2	67.7	-	15.7	N/A	6.18	N/A	6.52	0.3	0.001	0.0001	0.001	0.154	0.002	0.23	0.002	0.017	0.0001
	Dec-25	No	17.2	67.7	-	15.7	35.8	6.90	143.9	8.09	0.14	0.001	0.0001	0.001	0.001	0.002	0.23	0.001	0.025	0.0001
	Jan-26	Yes	24.1	78.8	-	53.6	52.7	6.69	159.5	21.83	0.09	0.001	0.0001	0.001	0.001	0.002	0.34	0.001	0.087	0.0001
	Feb-26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Mar-26	No	13.4	55.9	-	51.9	40.4	6.37	182.8	13.04	0.14	0.001	0.0001	0.001	0.001	0.002	0.54	0.001	0.057	0.0001

	Reference Site exceeds SSGV
	Impact Site Result exceeds SSGV or DGV
<i>italics</i>	Result exceeds the Limit of Reporting

		Dissolved Ni (mg/L)	TN (mg/L)	TP (mg/L)	Dissolved Ag (mg/L)	Dissolved Zn (mg/L)	Ammonia (mg/L)	Nitrogen Oxides (mg/L)	Reactive Phosphorus (mg/L)	Total Hardness (mg/L) (CaCO3)	Total Kjeda hl Nitrogen (mg/L) (TKN)	TDS (mg/L)	TSS (mg/L)	Total Al (mg/L)	Total As (mg/L)	Total Cd (mg/L)	Total Cr (mg/L)	Total Cu (mg/L)	Total Pb (mg/L)	Total Mn (mg/L)	Total Ni (mg/L)	Total Ag (mg/L)	Total Zn (mg/L)	Total Fe (mg/L)	Total Hg (mg/L)
Parameter																									
YORKERS CREEK CATCHMENT																									
DGV		0.008	0.25	0.02	0.00002	0.0024	0.013	0.015	0.015	-	-	-	0.2	0.027	0.0008	0.0006	0.00001	0.001	0.001	1.2	0.008	0.00002	0.0024	0.3	0.00006
LOR		0.001	0.1	0.01	0.001	0.005	0.010	0.010	0.01	1	0.1	10	1	0.01	0.001	0.0001	0.001	0.001	0.001	0.001	0.001	0.001	0.005	0.05	0.0001
Dec - May SSGV		0.001	0.2	0.02	0.00002	0.002	0.013	0.015	0.02	1	0.1	30	3												
June - Nov SSGV		0.001	0.2	0.02	0.00002	0.002	0.013	0.015	0.02	7	0.2	10	0.2												
NZG-IS	Mar-24	0.0005	0.1	0.01	0.00001	0.002	0.050	0.05	0.005	10	0.1	22	0.1												
	Apr-24	0.001	0.1	0.02	0.001	0.005	0.010	0.01	-	23	0.01	-	6	0.04	0.001	0.0001	0.001	0.001	0.001	0.012	0.001	0.001	0.005	0.24	0.0001
	May-24	0.001	0.2	0.06	0.001	0.007	0.010	0.03	0.01	23	0.2	60	5	0.06	0.001	0.0001	0.001	0.001	0.001	0.021	0.001	0.001	0.005	0.35	0.0001
	Jun-24	0.001	0.2	0.01	0.001	0.005	0.010	0.01	0.01	23	0.2	38	20	0.12	0.001	0.0001	0.001	0.001	0.001	0.037	0.001	0.001	0.005	0.67	0.0001
	Jul-24	0.001	0.2	0.04	0.001	0.005	0.010	0.04	0.01	12	0.2	52	8	0.22	0.001	0.0001	0.001	0.001	0.001	0.009	0.001	0.001	0.005	0.26	0.0001
	Aug-24	0.001	0.4	0.04	0.001	0.005	0.010	0.01	0.01	12	0.4	44	19	0.92	0.001	0.0001	0.001	0.001	0.001	0.023	0.001	0.001	0.005	0.85	0.0001
	Sep-24	0.001	0.1	0.04	0.001	0.005	0.010	0.01	0.01	21	0.1	41	3	0.07	0.001	0.0001	0.001	0.001	0.001	0.006	0.001	0.001	0.005	0.15	0.0001
	Oct-24	0.001	0.3	0.03	0.001	0.005	0.020	0.07	0.01	12	0.2	26	3	0.17	0.001	0.0001	0.001	0.001	0.001	0.01	0.002	0.001	0.005	0.27	0.0001
	Nov-24	0.001	0.1	0.04	0.001	0.005	0.010	0.01	0.01	21	0.1	66	1	0.11	0.001	0.0001	0.001	0.001	0.001	0.006	0.001	0.001	0.005	0.14	0.0001
	Dec-24	0.001	0.2	0.01	0.001	0.005	0.010	0.01	0.01	21	0.2	50	1	0.09	0.001	0.0001	0.001	0.001	0.001	0.007	0.001	0.001	0.005	0.16	0.0001
	Jan-25	0.001	0.4	0.02	0.001	0.005	0.070	0.4	0.01	26	0.4	74	4	0.06	0.001	0.0001	0.001	0.001	0.001	0.008	0.001	0.001	0.005	0.16	0.0001
	Feb-25	0.001	0.2	0.04	0.001	0.005	0.030	0.01	0.01	30	0.2	64	2	0.07	0.001	0.0001	0.001	0.001	0.001	0.007	0.001	0.001	0.005	0.14	0.0001
	Mar-25	0.001	0.2	0.02	0.001	0.005	0.010	0.17	0.02	32	0.1	66	2	0.11	0.001	0.0001	0.001	0.001	0.001	0.007	0.001	0.001	0.005	0.18	0.0001
	Apr-25	0.001	0.2	0.04	0.001	0.005	0.020	0.01	0.01	30	0.2	58	1	0.04	0.001	0.0001	0.001	0.001	0.001	0.006	0.001	0.001	0.005	0.12	0.0001
	May-25	0.001	0.1	0.02	0.001	0.005	0.010	0.01	0.02	30	0.1	54	1	0.11	0.001	0.0001	0.001	0.005	0.001	0.008	0.001	0.001	0.011	0.16	0.0001
	Jun-25	0.001	0.1	0.02	0.001	0.005	0.010	0.01	0.01	23	0.1	85	1	0.14	0.001	0.0001	0.001	0.001	0.001	0.005	0.001	0.001	0.005	0.18	0.0001
	Jul-25	0.001	0.2	0.03	0.001	0.005	0.020	0.01	0.01	12	0.2	31	4	0.21	0.001	0.0001	0.001	0.001	0.001	0.006	0.001	0.001	0.005	0.21	0.0001
	Aug-25	0.001	0.1	0.05	0.001	0.005	0.010	0.01	0.01	21	0.1	43	1	0.2	0.001	0.0001	0.001	0.001	0.001	0.006	0.001	0.001	0.005	0.17	0.0001
	Sep-25	0.001	0.2	0.03	0.001	0.005	0.010	0.01	0.01	18	0.2	57	1	0.16	0.001	0.0001	0.001	0.001	0.001	0.006	0.001	0.001	0.005	0.18	0.0001
	Oct-25	0.001	0.1	0.02	0.001	0.005	0.010	0.01	0.01	21	0.1	28	3	0.15	0.001	0.0001	0.001	0.001	0.001	0.007	0.001	0.001	0.005	0.17	0.0001
	Nov-25	0.001	0.2	0.02	0.001	0.235	0.010	0.01	0.01	23	0.2	57	1	0.13	0.001	0.0001	0.001	0.001	0.001	0.008	0.001	0.0001	0.005	0.18	0.0001
	Dec-25	0.001	0.3	0.07	0.001	0.005	0.010	0.01	0.01	23	0.3	84	42	0.43	0.001	0.0001	0.001	0.001	0.001	0.025	0.001	0.001	0.005	0.68	0.0001
	Jan-26	0.001	0.03	0.04	0.001	0.005	0.010	0.03	0.01	26	0.2	47	18	0.33	0.001	0.0001	0.001	0.001	0.001	0.021	0.001	0.001	0.01	0.47	0.0001
	Feb-26	0.001	0.4	0.02	0.001	0.031	0.280	0.1	0.01	32	0.3	56	1	0.05	0.001	0.0001	0.001	0.001	0.001	0.012	0.001	0.001	0.023	0.11	0.0001
	Mar-26	0.001	0.2	0.03	0.001	0.005	0.010	0.02	0.02	32	0.2	65	1	0.08	0.001	0.0001	0.001	0.001	0.001	0.011	0.001	0.001	0.005	0.18	0.0001
YK-IS	Mar-24	0.0005	0.1	0.01	0.00001	0.004	0.050	0.05	0.005	1	0.1	21	1												
	Apr-24	0.001	0.3	0.02	0.001	0.005	0.010	0.06	-	12	0.06	-	13	0.15	0.001	0.0001	0.001	0.001	0.001	0.024	0.001	0.001	0.005	0.52	0.0001
	May-24	0.001	0.2	0.03	0.001	0.005	0.010	0.05	0.01	12	0.1	48	5	0.04	0.001	0.0001	0.001	0.001	0.001	0.014	0.001	0.001	0.005	0.16	0.0001
	Jun-24	0.001	0.3	0.03	0.001	0.005	0.010	0.06	0.01	9	0.2	19	6	0.32	0.001	0.0001	0.001	0.001	0.001	0.014	0.001	0.001	0.005	0.42	0.0001
	Jul-24	0.001	0.3	0.07	0.001	0.009	0.010	0.01	0.01	9	0.3	52	7	0.8	0.001	0.0001	0.001	0.001	0.001	0.015	0.001	0.001	0.005	0.62	0.0001
	Aug-24	0.002	0.4	0.04	0.001	0.005	0.030	0.01	0.01	9	0.4	62	15	1.22	0.001	0.0001	0.003	0.001	0.001	0.026	0.001	0.001	0.005	0.99	0.0001
	Sep-24	0.001	0.2	0.02	0.001	0.005	0.020	0.01	0.01	9	0.2	26	4	0.16	0.001	0.0001	0.001	0.001	0.001	0.012	0.001	0.001	0.005	0.26	0.0001
	Oct-24	0.001	0.2	0.06	0.001	0.005	0.010	0.01	0.01	21	0.2	40	4	0.14	0.001	0.0001	0.001	0.001	0.001	0.006	0.001	0.001	0.005	0.23	0.0001
	Nov-24	0.001	0.1	0.04	0.001	0.01	0.010	0.01	0.01	9	0.1	42	3	0.31	0.001	0.0001	0.001	0.001	0.001	0.022	0.001	0.001	0.005	0.39	0.0001
	Dec-24	0.001	0.2	0.03	0.001	0.005	0.020	0.02	0.01	12	0.2	40	6	0.59	0.001	0.0001	0.001	0.001	0.001	0.026	0.001	0.001	0.005	0.55	0.0001
	Jan-25	0.001	0.2	0.02	0.001	0.008	0.020	0.01	0.02	14	0.2	59	3	0.07	0.001	0.0001	0.001	0.001	0.001	0.055	0.001	0.001	0.005	0.61	0.0001
	Feb-25	0.001	0.4	0.07	0.001	0.005	0.020	0.02	0.01	12	0.4	42	5	1.44	0.001	0.0001	0.002	0.001	0.001	0.048	0.001	0.001	0.005	1.31	0.0001
	Mar-25	0.001	0.2	0.03	0.001	0.005	0.010	0.01	0.01	7	0.2	41	13	0.25	0.001	0.0001	0.001	0.001	0.001	0.054	0.001	0.001	0.005	0.74	0.0001
	Apr-25	0.001	0.2	0.02	0.001	0.005	0.020	0.04	0.01	21	0.2	37	4	0.15	0.001	0.0001	0.001	0.001	0.001	0.095	0.001	0.001	0.005	0.88	0.0001
	May-25	0.001	0.1	0.03	0.001	0.005	0.010	0.01	0.01	14	0.1	33	1	0.15	0.001	0.0001	0.001	0.001	0.001	0.027	0.001	0.001	0.005	0.58	0.0001
	Jun-25	0.001	0.2	0.04	0.001	0.005	0.020	0.01	0.01	12	0.2	90	5	0.28	0.001	0.0001	0.001	0.001	0.001	0.011	0.001	0.001	0.005	0.38	0.0001
	Jul-25	0.001	0.3	0.06	0.001	0.005	0.040	0.01	0.01	5	0.3	27	4	0.26	0.001	0.0001	0.001	0.001	0.001	0.004	0.001	0.001	0.005	0.2	0.0001
	Aug-25	0.001	0.2	0.03	0.0001	0.005	0.070	0.01	0.01	9	0.2	28	5	0.3	0.001	0.0001	0.001	0.001	0.001	0.008	0.001	0.001	0.005	0.26	0.0001
	Sep-25	0.001	0.2	0.04	0.001	0.012	0.030	0.01	0.01	5	0.2	46	1	0.44	0.001	0.0001	0.001	0.001	0.001	0.008	0.001	0.001	0.005	0.33	0.0001
	Oct-25	0.001	0.1	0.02	0.001	0.005	0.010	0.01	0.01	9	0.1	19	2	0.38	0.001	0.0001	0.001	0.001	0.001	0.013	0.001	0.001	0.005	0.33	0.0001
	Nov-25	0.001	0.2	0.01	0.001	0.085	0.010	0.01	0.01	12	0.2	34	3	0.54	0.001	0.0001	0.001	0.002	0.001	0.019					



Appendix D: Calibration Certificate