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REPORT ON

LAKE VERMONT NORTH ASSOCIATED WATER LICENCE

ANNUAL MONITORING REPORT - JULY 2025 TO JUNE 2026 WATER YEAR

For: Bowen Basin Coal Pty Ltd

Project number: 4205

Date: 08/09/2026

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Lake Vermont North Associated Water Licence Annual Monitoring Report - July 2025 to June 2026 Water Year

Prepared for

Bowen Basin Coal Pty Ltd

1. Introduction

This Annual Monitoring Report for the Lake Vermont North Mine (the Project) has been prepared by hydrogeologist.com.au on behalf of Bowen Basin Coal Pty Ltd (BBC) to satisfy the conditions of Associated Water Licence (AWL) 620850. The AWL contains conditions relating to the monitoring and assessment of groundwater associated with mining activities at the Lake Vermont North Mine.

Mining activities within Mining Lease (ML) 70528 commenced on 1 July 2025. During the July 2025 to June 2026 reporting period (the water year), mining activities were limited to the removal of overburden, with the underlying Permian coal measures not yet disturbed. The overburden encountered during mining was dry and no associated water was taken under AWL 620850 during the reporting period. Mining activities within ML 70331 and ML 70477 are not required to be assessed under AWL 620850.

BBC is required under Condition 47 of AWL 620850 to prepare an Annual Monitoring Report. The report is required to address an assess of groundwater impacts associated with mining. This report presents the results for the water year. The requirements of Condition 47 and where they are addressed in this report are summarised in Table 1-1.

Table 1-1 Reporting requirements and report section

AWL Condition	Requirement	Report section
47	The Licensee must provide an Annual Monitoring Report to the chief executive. Each Annual Monitoring Report must include:	
	a) the underground water levels in the monitoring bores identified in the approved Underground Water Monitoring Program.	Section 5
	b) any changes in water quality in the monitoring bores, recorded in accordance with the approved Underground Water Monitoring Program.	Section 6
	c) maps showing the actual water level drawdown contours for each aquifer.	Section 7
	d) details of the numerical underground water model and any review undertaken of the numerical underground water model since the previous Annual Monitoring Report.	Section 8
	e) an assessment of any differences between the actual water level impact and the impact predicted for the same period by the numerical underground water model.	Section 8
	f) details of any bores which are predicted by the numerical underground water model to be located in the affected area.	Section 9
	g) raw data provided in a format as requested by the chief executive.	Appendix B and Appendix B

2. Geology and hydrogeology

The Project is located within the central part of the Bowen Basin, an early Permian to middle Triassic age basin that covers an area of approximately 160,000 km². Table 2-1 shows the stratigraphic relationship and description of strata within the Project area. This includes Bowen Basin strata (Late Permian Rangal Coal Measures and the Triassic Rewan Group) that are overlain by Quaternary / Tertiary aged sediments.

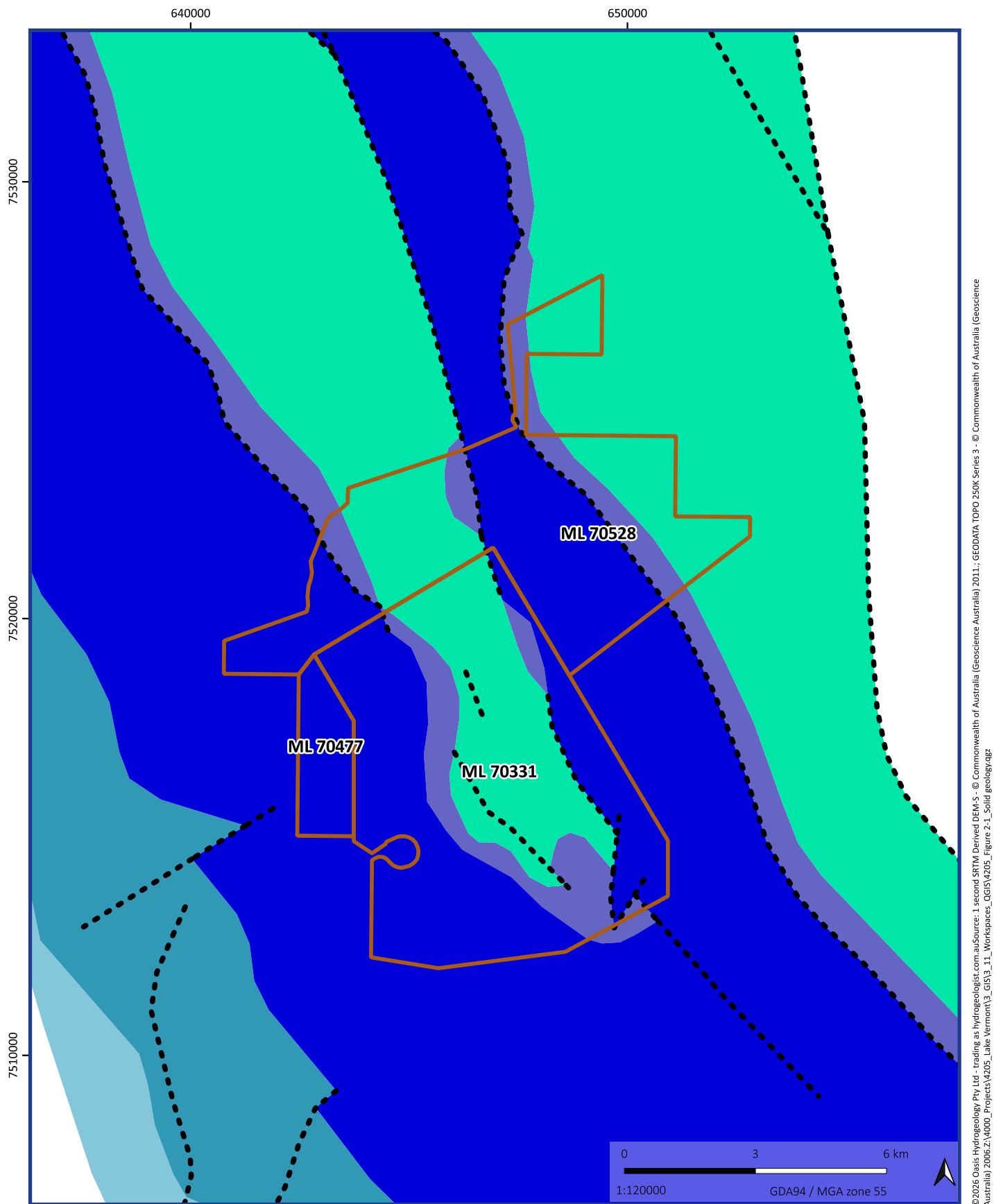
Figure 2-1 shows the Bowen Basin solid geology for the Project area. The area is underlain predominantly by strata of the Rangal Coal Measures, with the underlying Fair Hill Formation and the overlying Rewan Group occurring in the eastern and western areas of ML 70528. The Rangal Coal Measures contain the target coal seams for mining.

The surface geology of the Project area is shown in Figure 2-2. The Permian and Triassic strata are overlain by unconsolidated Quaternary and Tertiary sediments, with the Quaternary age alluvial sediments associated with the Phillips Creek. In areas beyond the extent of Quaternary alluvium, the surficial geology comprises Tertiary sediments.

Table 2-1 Stratigraphy

Geological age	Group	Formation
Quaternary / Tertiary		Unconsolidated sediments
Triassic	Rewan Group	Arcadia Formation Sagittarius Sandstone
Late Permian	Blackwater Group	Rangal Coal Measures Fair Hill Formation

The Quaternary sediments associated with Phillips Creek are generally dry but may become temporarily saturated following prolonged flow events. The Tertiary sediments are not continuously saturated, with groundwater occurring in isolated areas. Groundwater also occurs within the Rewan Group and Permian strata, with groundwater occurrence and connectivity influenced by regional faulting.



Solid geology

Legend

Lake Vermont mining leases

Geology

Fault

Rr - Rewan Group

Blackwater Group

Pwj - Rangal Coal Measures

Pwt - Fair Hill Formation

Back Creek Group

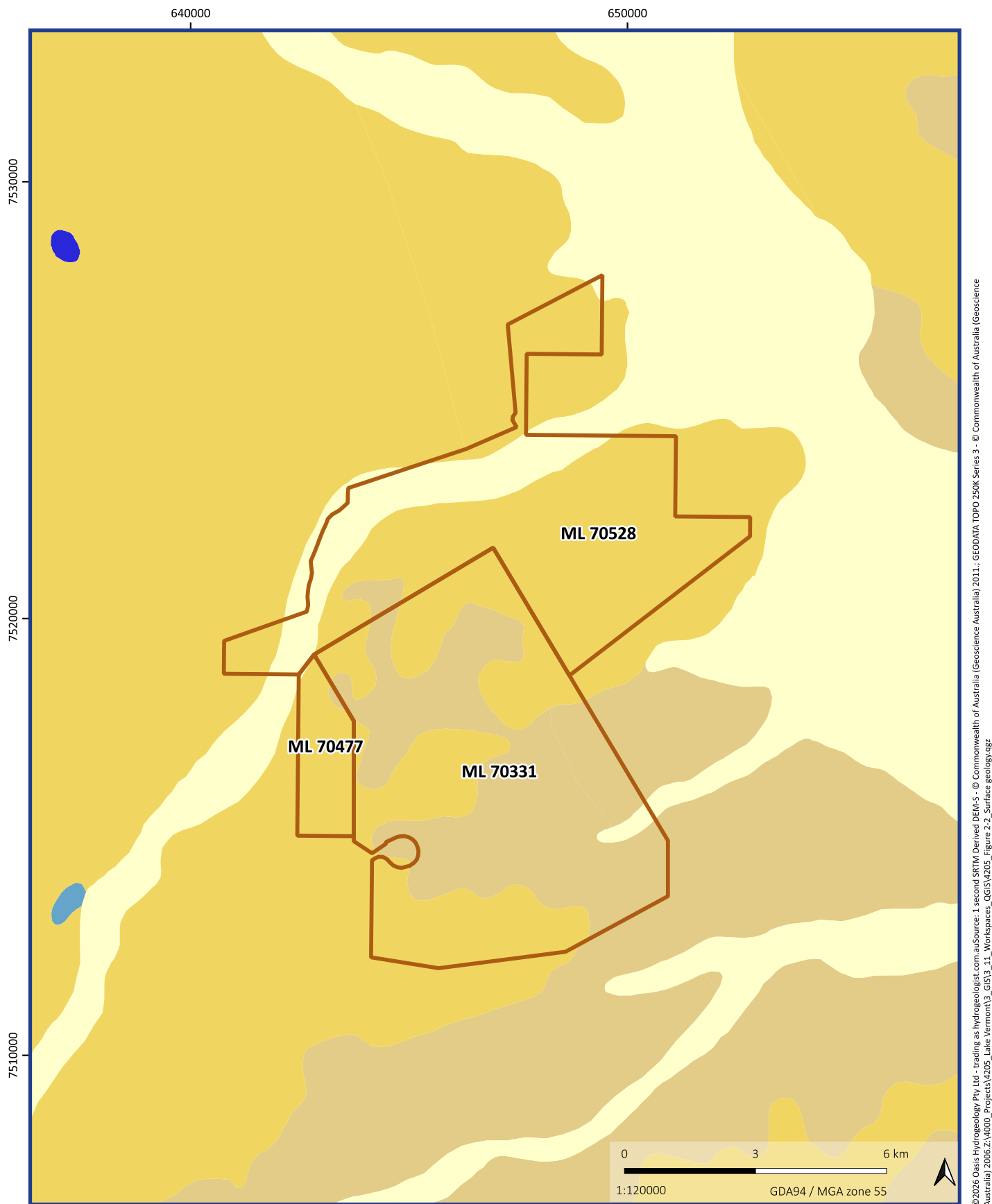
Pwb - Moranbah Coal Measures

Pbd - German Creek Formation

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Figure 2-1

25/08/2026



Surface geology

Legend

Lake Vermont mining leases

Geology

Qa - Quaternary alluvium

TQa - Tertiary sediments

Tu - Duaringa Formation

Pwt - Fort Cooper Coal Measures

Pwb - Moranbah Coal Measures

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Figure 2-2

25/08/2026

3. Rainfall data

Rainfall data for the Project was obtained from the Queensland Government SILO Data Drill website. The SILO data accesses grids of climate data available from surrounding Bureau of Meteorology (BoM) point observations and then creates interpolated climate values for a specific location. The interpolated climate data is calculated using splining and kriging techniques, based on the proximity of surrounding BoM point observations.

Monthly rainfall data and the Cumulative Rainfall Departure (CRD) curve is shown in Figure 3-1. The CRD is calculated by subtracting the long-term average monthly rainfall from the actual monthly rainfall, to provide a monthly departure from average conditions. Periods of below average rainfall are represented as downward trending slopes and above average rainfall as upward trending slopes. The CRD curve is used in groundwater investigations due to the potential correlation between the CRD and groundwater level trends.

The CRD curve shows a strong upward trend during 2010 and generally remains elevated between 2011 and 2017, indicating predominantly above average rainfall conditions during 2010 and 2011, and average conditions between 2012 and 2017. From approximately 2018 to 2021, the CRD curve declines, indicating a period of below average rainfall. The CRD shows a gradual increase from 2022 through to 2026, indicating a period of slightly above average rainfall. During the July 2025 to June 2026 reporting period, the CRD initially remained stable before increasing following higher rainfall in late 2025 and early 2026 and then declining towards the end of the reporting period.

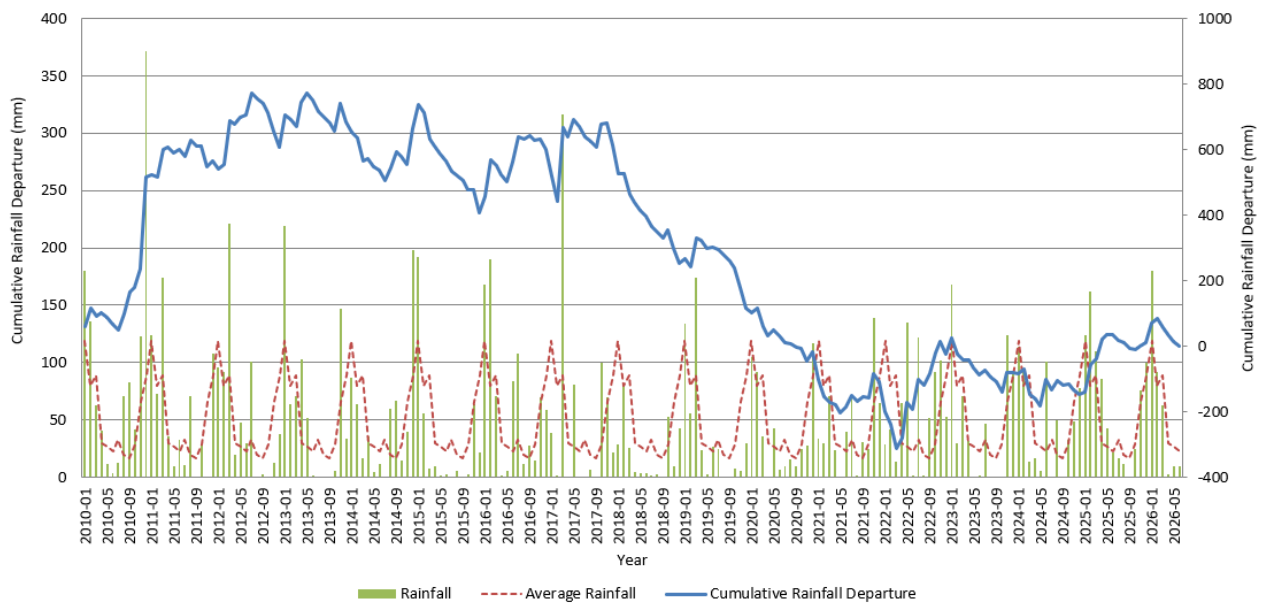


Figure 3-1 Monthly rainfall data and cumulative rainfall departure

4. Groundwater monitoring

The existing groundwater monitoring network is shown in Figure 4-1 and detailed in Table 4-1 and Table 4-2. The monitoring network consists of 21 groundwater monitoring bores and 6 vibrating wire piezometer (VWP) installations. The groundwater monitoring network is defined within the approved Underground Water Monitoring Program.

Table 4-1 Groundwater monitoring network – monitoring bore summary

Monitoring bore	Hydrogeological unit	Easting	Northing	Ground elevation (mAHD)	Depth (mbgl)	Screened interval (mbgl)
1238-MB1	Tertiary	650781	7522924	165.5	30	24 - 30
1238-MB2	Permian (Vermont seam)	650781	7522924	165.5	59	53 – 59
2218-MB2	Rewan Group	645640	7522933	173.3	65	59 - 65
2218-MB3	Permian coal measures (Leichhardt seam)	645640	7522933	173.3	88	85 – 88
2226-MB2	Rewan Group	643243	7522131	178.8	38	32 – 38
2226-MB3	Permian (Leichhardt seam)	643243	7522131	178.8	59	53 – 59
2369W-MB1	Tertiary	645638	7522932	173.4	20	14 – 20
2370W-MB1	Tertiary	648151	7524059	168.3	18.6	12.6 – 18.6
2371W-MB1	Tertiary	643245	7522127	178.9	22	16 - 22
2372-MB1	Tertiary	647628	7526187	166.9	30	24 – 30
2372-MB2	Rewan Group	647628	7526187	166.9	46	40 – 46
2372-MB3	Permian (Vermont seam)	647628	7526187	166.9	129	123 – 129
2375-MB2	Permian (Vermont seam)	648154	7524045	168.4	68	65 – 68
2393-MB1	Tertiary	645807	7523224	173.2	30	24 – 30
2393-MB2	Permian (Leichhardt seam)	645807	7523224	173.2	41	38 – 41
2393-MB3	Permian (Vermont seam)	645807	7523224	173.2	96	90 – 96
2394-MB1	Tertiary	645012	7523143	174.0	30	24 – 30
2394-MB2	Rewan Group	645012	7523143	174.0	123	117 – 123
West-MB1	Tertiary	642984	7520110	184.0	30	27 – 30
West-MB2	Permian coal measures	642984	7520110	184.0	80	74 – 80
W15_MB1	Tertiary	649009	7527504	177.50	23	17–23

Notes: Coordinates are in GDA94, Zone 55
mbgl – metres below ground level
mAHD – metres above Australian Height Datum

Table 4-2 Groundwater monitoring network – vibrating wire piezometer summary

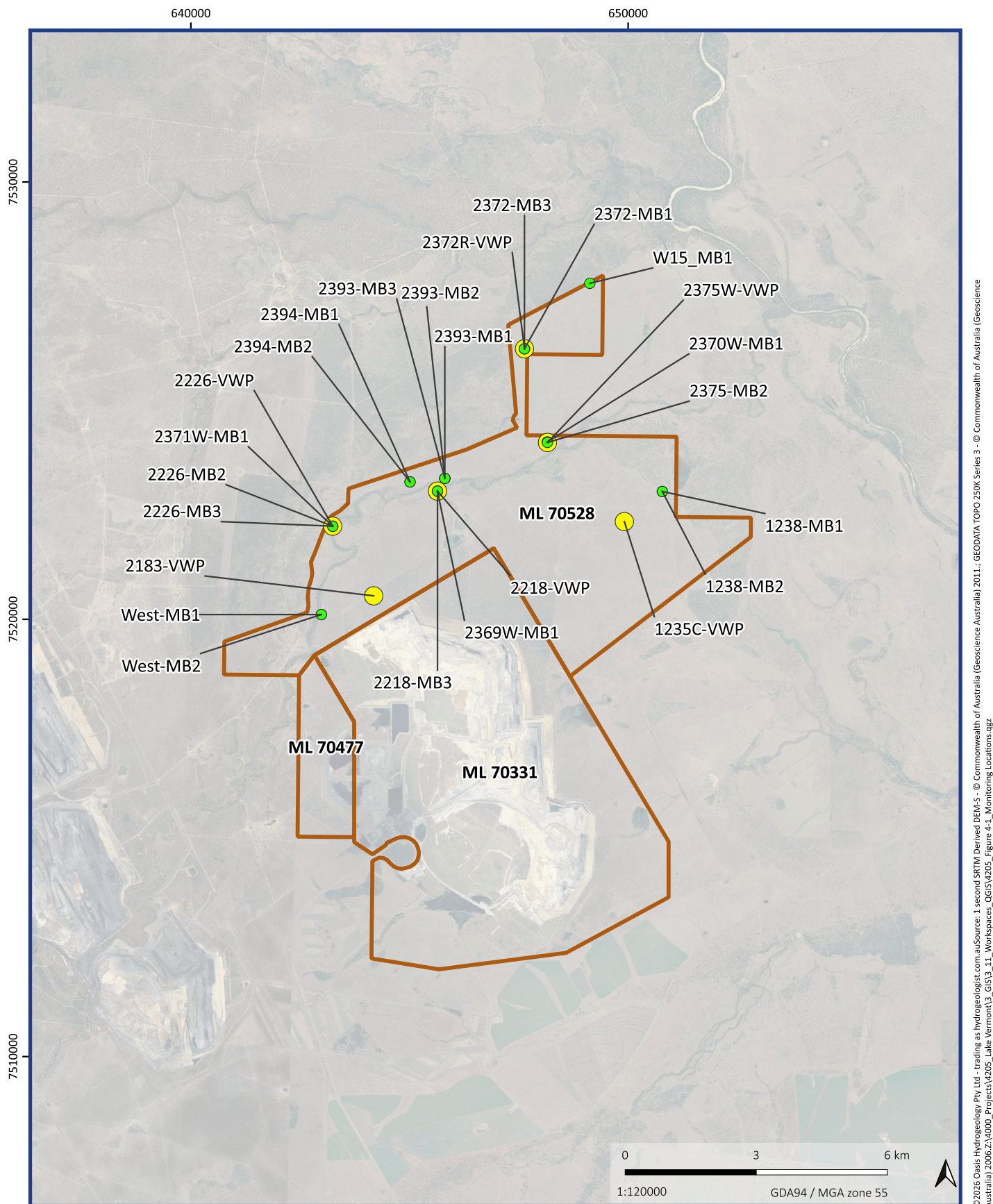
Monitoring location	Hydrogeological unit	Easting	Northing	Ground elevation (mAHD)	Depth (mbgl)	VWP depth (mbgl)
2226-VWP	Rewan Group	643243	7522131	178.84	102	38, 56, 74, 94
2183-VWP	Permian coal measures	644181	7520538	185.16	96	40, 61, 71, 83
2218-VWP	Rewan Group / Permian coal measures	645640	7522933	173.29	147	65, 86, 116, 137
2372R-VWP	Permian coal measures	647628	7526187	166.91	136	73, 93.5, 108, 125
2375W-VWP	Permian coal measures	648154	7524045	168.4	82	50, 67.5, 78
1235C-VWP	Permian coal measures	649913	7522235	170.8	115	58, 72, 90, 107

Notes: Coordinates are in GDA94, Zone 55
mbgl – metres below ground level
mAHD – metres above Australian Height Datum

As per the approved Underground Water Monitoring Program, groundwater monitoring is undertaken at the frequencies and for the parameters presented in Table 4-3. Groundwater levels are monitored at all monitoring locations on a quarterly basis.

Table 4-3 Groundwater monitoring frequency and parameters

Monitoring location	Hydrogeological unit	Frequency water level	Frequency water quality	Parameters
1238-MB1	Tertiary	Quarterly	Quarterly	- pH (field and laboratory) - EC (field and laboratory) - TDS - Major Ions (Calcium, Magnesium, Sodium, Potassium, Chloride, Sulphate, Alkalinity (carbonate, bicarbonate, hydroxide, total)) - Metals/metalloids (total and dissolved, by ICP-MS/FIMS): - Aluminium - Arsenic - Boron - Cadmium - Chromium - Copper - Iron - Lead - Manganese - Mercury - Molybdenum - Nickel - Selenium - Silver - Uranium - Vanadium - Zinc - Total Petroleum Hydrocarbons (C6-C9, C10-36)
1238-MB2	Permian (Vermont seam)	Quarterly	Quarterly	
2218-MB2	Rewan Group	Quarterly	Quarterly	
2218-MB3	Permian (Leichhardt seam)	Quarterly	Quarterly	
2226-MB2	Rewan Group	Quarterly	Quarterly	
2226-MB3	Permian (Leichhardt seam)	Quarterly	Quarterly	
2369W-MB1	Tertiary	Quarterly	Quarterly	
2370W-MB1	Tertiary	Quarterly	Quarterly	
2371W-MB1	Tertiary	Quarterly	Quarterly	
2372-MB1	Tertiary	Quarterly	Quarterly	
2372-MB2	Rewan Group	Quarterly	Quarterly	
2372-MB3	Permian (Vermont seam)	Quarterly	Quarterly	
2375-MB2	Permian (Vermont seam)	Quarterly	Quarterly	
2393-MB1	Tertiary	Quarterly	Quarterly	
2393-MB2	Permian (Leichhardt seam)	Quarterly	Quarterly	
2393-MB3	Permian (Vermont seam)	Quarterly	Quarterly	
2394-MB1	Tertiary	Quarterly	Quarterly	
2394-MB2	Rewan Group	Quarterly	Quarterly	
West-MB1	Tertiary	Quarterly	Quarterly	
West-MB2	Permian coal measures	Quarterly	Quarterly	
W15-MB1	Tertiary	Quarterly	Quarterly	
2226-VWP	Rewan Group	Quarterly	-	
2183-VWP	Permian coal measures	Quarterly	-	
2218-VWP	Rewan Group / Permian coal measures	Quarterly	-	
2372R-VWP	Permian coal measures	Quarterly	-	
2375W-VWP	Permian coal measures	Quarterly	-	
1235C-VWP	Permian coal measures	Quarterly	-	



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Monitoring locations

Legend

- Monitoring bore locations
- VWP locations
- Vermont mining lease

4205_ Bowen Basin Coal _Lake Vermont AWL Reporting 2026

Figure 4-1

25/08/2026

5. Groundwater level

Groundwater levels recorded in the monitoring bores are presented in Figure 5-1. Water levels are reported as metres to water below the top of casing (mTOC). Groundwater levels during the 2025/26 reporting period were generally consistent with the historical range of observations across the monitoring network. Most bores showed minor fluctuations in groundwater level, with no consistent network wide declining trend evident during the reporting period.

Some individual bores showed greater short-term variability. These changes were generally localised and were not accompanied by a comparable response across the broader monitoring network. W15_MB1 has historically been recorded as dry during some monitoring events. Where no measurable groundwater level was available, the dry observations have not been plotted as a numerical water level in Figure 5-1.

Mining within ML 70528 during the reporting period was limited to approximately 10 m of surficial overburden removal at Phillips West, with the underlying Permian coal measures not intersected and no take of associated water. As expected, the groundwater level data do not indicate a discernible response to mining within ML 70528 during the reporting period.

Groundwater elevations recorded by the VWP are presented in Figure 5-2. Groundwater elevations were generally stable during the reporting period, with localised changes recorded at 2226-VWP sensor VW4 (38 mbgl) and 2375W-VWP sensor VW3 (50 mbgl). At 2226-VWP, sensor VW4 increased from 162.39 mAHD in Q4 2025 to 167.62 mAHD in Q2 2026. The sensor wires at this installation had previously been severed and resoldered, resulting in uncertainty in sensor identification. Sensor VW3 was excluded from the processed dataset due to this uncertainty. Accordingly, the apparent change in sensor VW4 should be interpreted with caution. At 2375W-VWP, sensor VW3 increased from 141.82 mAHD in Q4 2025, to 147.93 mAHD in Q1 2026, and 152.28 mAHD in Q2 2026. This change is atypical of the broader VWP monitoring record and should be interpreted cautiously pending confirmation of sensor performance. Overall, the VWP results do not indicate a consistent network wide change in groundwater elevations. The changes at 2226-VWP and 2375W-VWP are localised to individual sensors and are not representative of the broader monitoring network.

Actual water level drawdown contours have not been prepared for the reporting period, as groundwater monitoring did not identify a discernible mining related drawdown response from which meaningful drawdown contours could be generated. Mining activities within ML 70528 commenced on 1 July 2025 and were limited to the removal of surficial overburden, with the underlying Permian coal measures not intersected. The overburden encountered was dry and no associated water was taken under AWL 620850.

The raw groundwater level data provided in Appendix A.

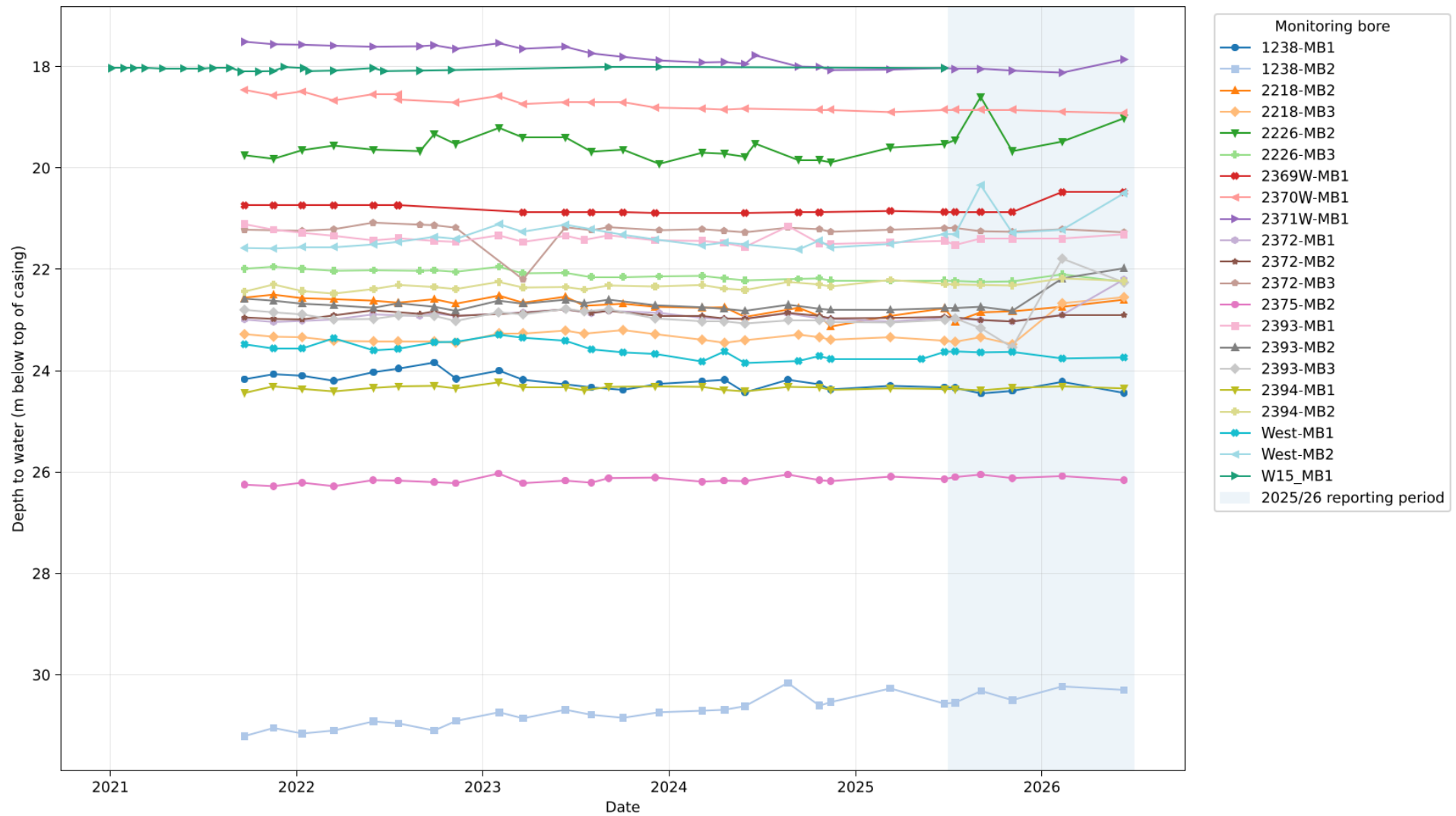


Figure 5-1 Groundwater levels

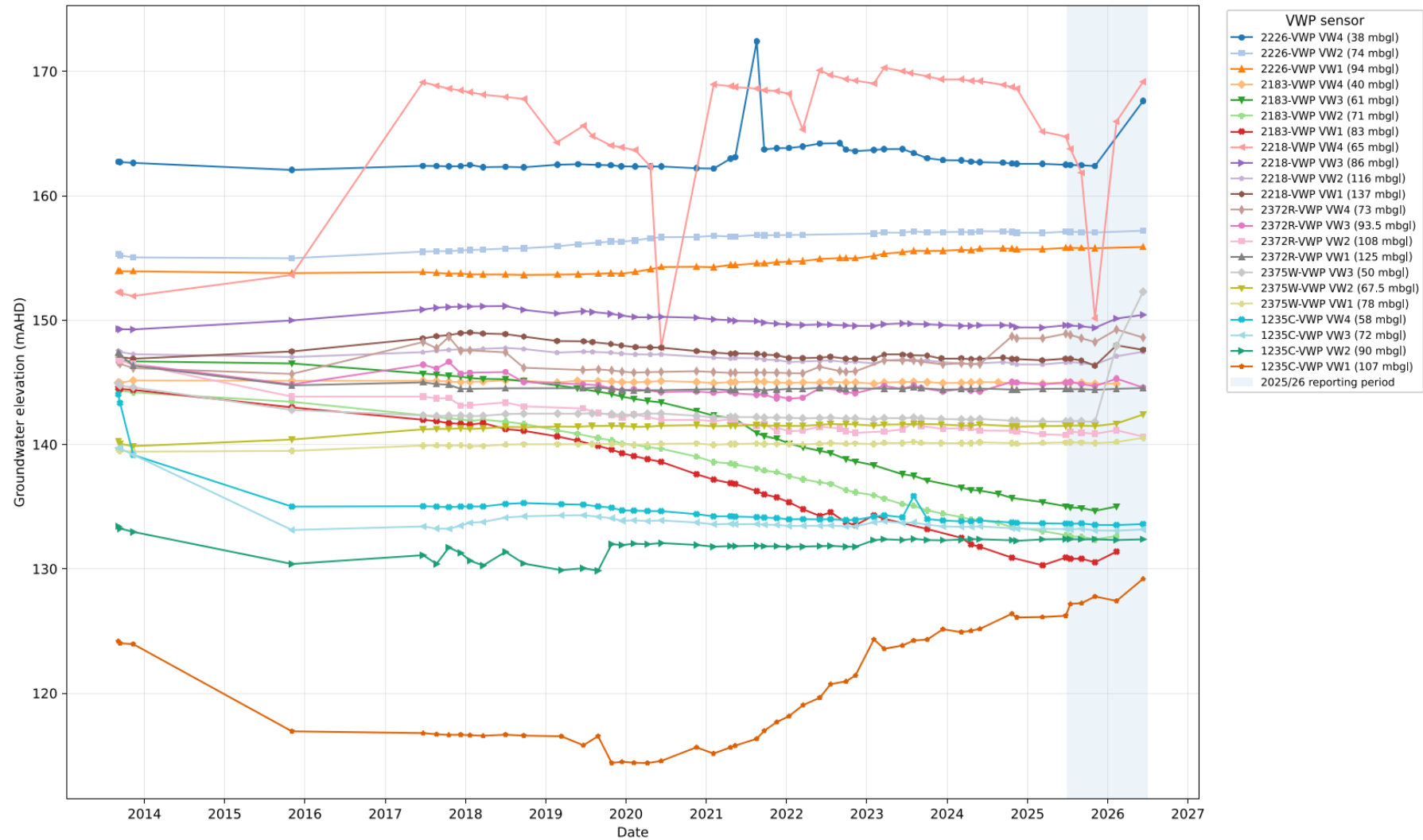


Figure 5-2 Vibrating wire piezometer elevation

6. Groundwater quality

Groundwater quality monitoring was undertaken during the reporting period in accordance with the approved Underground Water Monitoring Program. Monitoring included pH, electrical conductivity (EC), major ions, dissolved and total metals, and total petroleum hydrocarbons (TPH). A summary of the field pH and EC recorded during the reporting period is provided in Table 6-1, with groundwater quality results provided in Appendix B.

Groundwater quality results were reviewed against the available historical monitoring record to identify changes in groundwater quality across the monitoring network. Field pH and EC recorded during the reporting period were generally consistent with historical observations. Minor departures from previous observed ranges occurred at several monitoring bores, however these were small or represented lower EC values and did not indicate a consistent network wide change in groundwater quality.

Major ions, metals and TPH results were also reviewed against the available historical monitoring record. Some variability was recorded in individual parameters and monitoring bores; however, the changes were localised and did not indicate a consistent change in groundwater quality across the monitoring network.

Monitoring bore 2369W-MB1 was recorded as dry and could not be sampled. W15_MB1 was not sampled for groundwater quality during the reporting period, with field records indicating insufficient water in the bore for sampling. No groundwater quality data were available for 2370W-MB1 during the reporting period.

Mining within ML 70528 during the reporting period was limited to approximately 10 m of surficial overburden removal at Phillips West. The underlying Permian coal measures were not intersected, the overburden encountered was dry. Hence no groundwater inflow or associated water take occurred. There was no spatially consistent groundwater quality response evident in the monitoring data that would indicate an effect associated with mining within ML 70528 during the reporting period.

Groundwater quality monitoring will continue in accordance with the approved Underground Water Monitoring Program to identify any changes as mining progresses.

Table 6-1 Field groundwater quality

Monitoring bore	pH range	EC range ($\mu\text{S}/\text{cm}$)
1238-MB1	6.24–6.32	18,096–18,772
1238-MB2	6.33–6.44	16,682–17,398
2218-MB2	6.65–6.73	23,254–24,580
2218-MB3	6.56–6.73	23,488–26,058
2226-MB2	7.08–7.09	2,198–3,520
2226-MB3	6.71–6.77	9,445–10,234
2369W-MB1	dry	dry
2370W-MB1	-	-
2371W-MB1	6.96–7.04	21,592–22,535
2372-MB1	6.31–6.42	33,595–36,341
2372-MB2	6.22–6.34	28,213–29,440
2372-MB3	6.43–6.50	28,037–30,316
2375-MB2	6.45–6.55	8,601–11,857
2393-MB1	6.78–6.87	8,270–8,498
2393-MB2	7.07–7.17	2,330–2,533
2393-MB3	6.62–6.81	11,419–18,900
2394-MB1	6.53–6.63	23,117–23,933
2394-MB2	6.86–6.88	27,139–28,479
West-MB1	6.78–6.86	2,667–2,892
West-MB2	7.18–7.27	3,107–3,614
W15_MB1	dry/near dry	dry/near dry

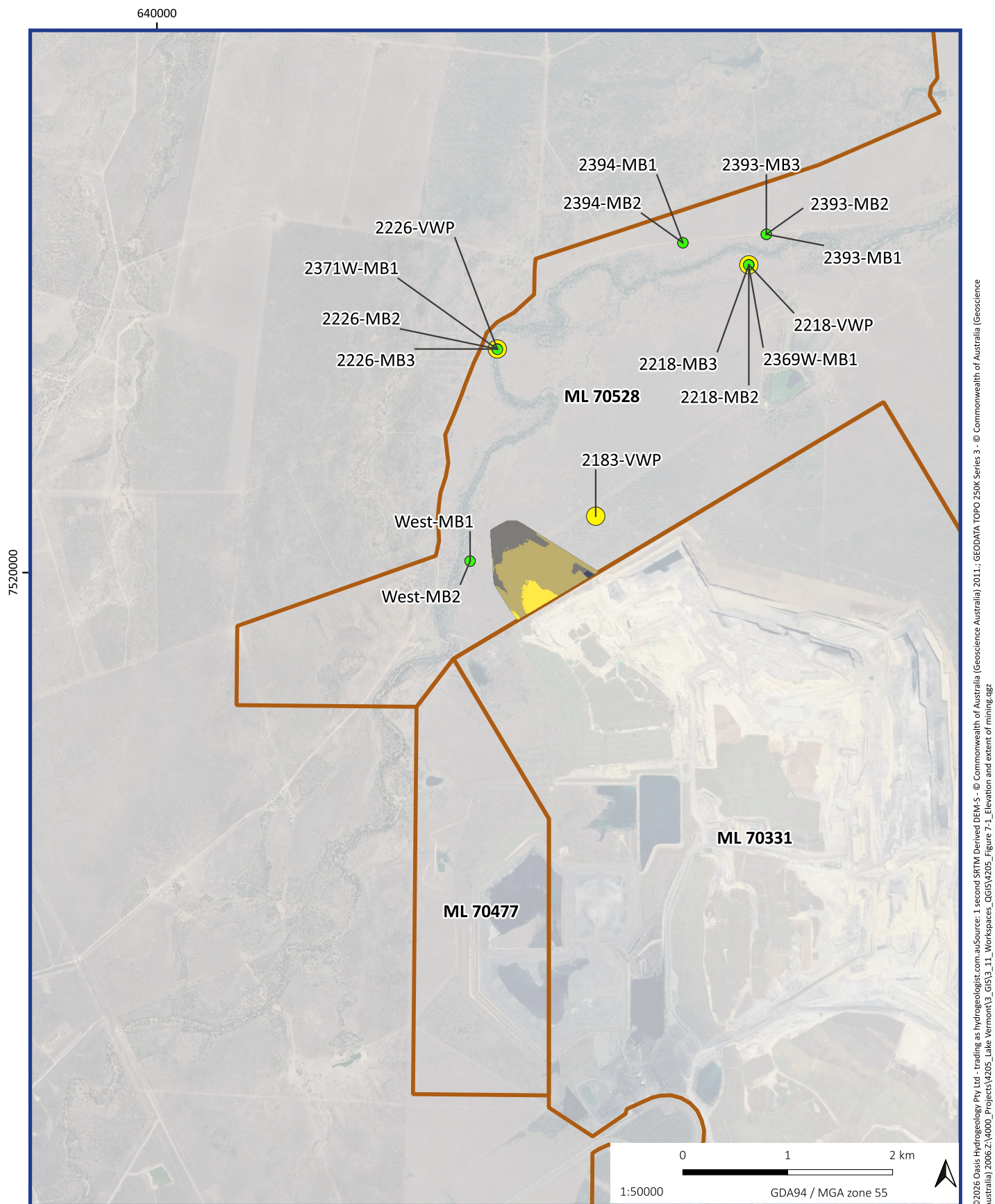
7. Impact of mining on groundwater levels

Mining activities within ML 70528 commenced on 1 July 2025. During the July 2025 to June 2026 reporting period, mining was limited to the Phillips West area. Advancement of Phillips West comprised only a few days of surficial overburden removal to a depth of approximately 10 m. The underlying Permian coal measures were not intersected, the overburden encountered was dry and no groundwater inflow or associated water take occurred. The elevation and extent of mining at the end of the reporting period, based on the total void surface provided by BBC, is shown in Figure 7-1.

Groundwater monitoring undertaken during the reporting period did not identify a mining related drawdown response within the monitored hydrogeological units. West-MB1, West-MB2 and 2183-VWP are located in close proximity to the Phillips West mining area and provide monitoring of groundwater levels adjacent to the area of initial mining. Groundwater levels recorded at these locations did not show a response indicative of mining related drawdown during the reporting period.

Mining within ML70528 is not considered to have affected groundwater levels during the reporting period. There has been limited advancement of the Phillips West mining area, no groundwater inflow or associated water take from mining, and an absence of a drawdown response at monitoring locations adjacent to the mining area.

Accordingly, actual water level drawdown contours have not been prepared for the reporting period, as no discernible mining related drawdown was identified. Hence no meaningful drawdown contours could be generated. Groundwater levels will continue to be monitored in accordance with the approved Underground Water Monitoring Program. Actual drawdown contours will be developed when monitoring data demonstrates a measurable mining related groundwater response and when there is sufficient spatial data available to support meaningful contouring.



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Legend

- | | |
|---|---|
| Vermont mining lease | Elevation (mAHd) |
| ● Monitoring bore locations | ≤ 180 |
| ● VWP locations | 180 - 185 |
| | 185 - 190 |
| | > 190 |

Extent of mining

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Figure 7-1

04/09/2026

8. Numerical groundwater model

A three-dimensional numerical groundwater model for the Lake Vermont North Extension Project was developed by SLR Consulting Australia and documented in the Lake Vermont North Groundwater Modelling Technical Report (SLR, 2025).

The model was developed using MODFLOW-USG and includes the regional hydrostratigraphic framework, groundwater recharge and discharge processes, surface water features, geological structures, existing and proposed mining activities and groundwater monitoring data. The model was developed to assess groundwater inflows to the mine workings and predict the extent and magnitude of groundwater drawdown associated with mining on ML 70528.

The model builds on the previous SLR (2021) regional groundwater model, with model inputs updated to 2024. Groundwater monitoring data collected between 2021 and 2024 were used to verify the predictive capability of the model, and updated mining stresses were incorporated.

No further review or update of the numerical groundwater model was undertaken during the reporting period. Under Condition 51 of AWL 620850, the numerical groundwater model is required to be reviewed within two years of the commencement of the take of associated water and at least every five years thereafter.

Mining activities on ML 70528 during the reporting period were limited to initial overburden removal at Phillips West, to approximately 10 m depth. The underlying Permian coal measures were not intersected, and no associated water was taken during the reporting period.

The numerical groundwater model predicts groundwater drawdown associated with progressive mine development and dewatering, with the greatest impacts occurring within the Rangal Coal Measures targeted by mining. The predicted drawdown therefore relates to stages of mine development more advanced than those reached during the reporting period. The model predicts the greatest drawdown in areas of coal removal, decreasing with distance from the mine.

Groundwater monitoring undertaken during the reporting period did not indicate a mining related groundwater drawdown response. Given the limited extent and depth of mining and the absence of associated water take, a meaningful comparison between observed and model predicted mining related drawdown cannot yet be made.

As mining progresses and associated water take commences, observed groundwater responses will be compared against the corresponding model predictions to assess model performance and determine whether review or refinement of the numerical groundwater model is warranted.

9. Private bores within the affected area

Condition 47(f) of AWL 620850 requires the Annual Monitoring Report includes details of any bores predicted by the numerical underground water model to be located within the affected area. Most registered bores in the area are used for mine monitoring or mine water supply as listed in Table 9-1 and shown in Figure 9-1.

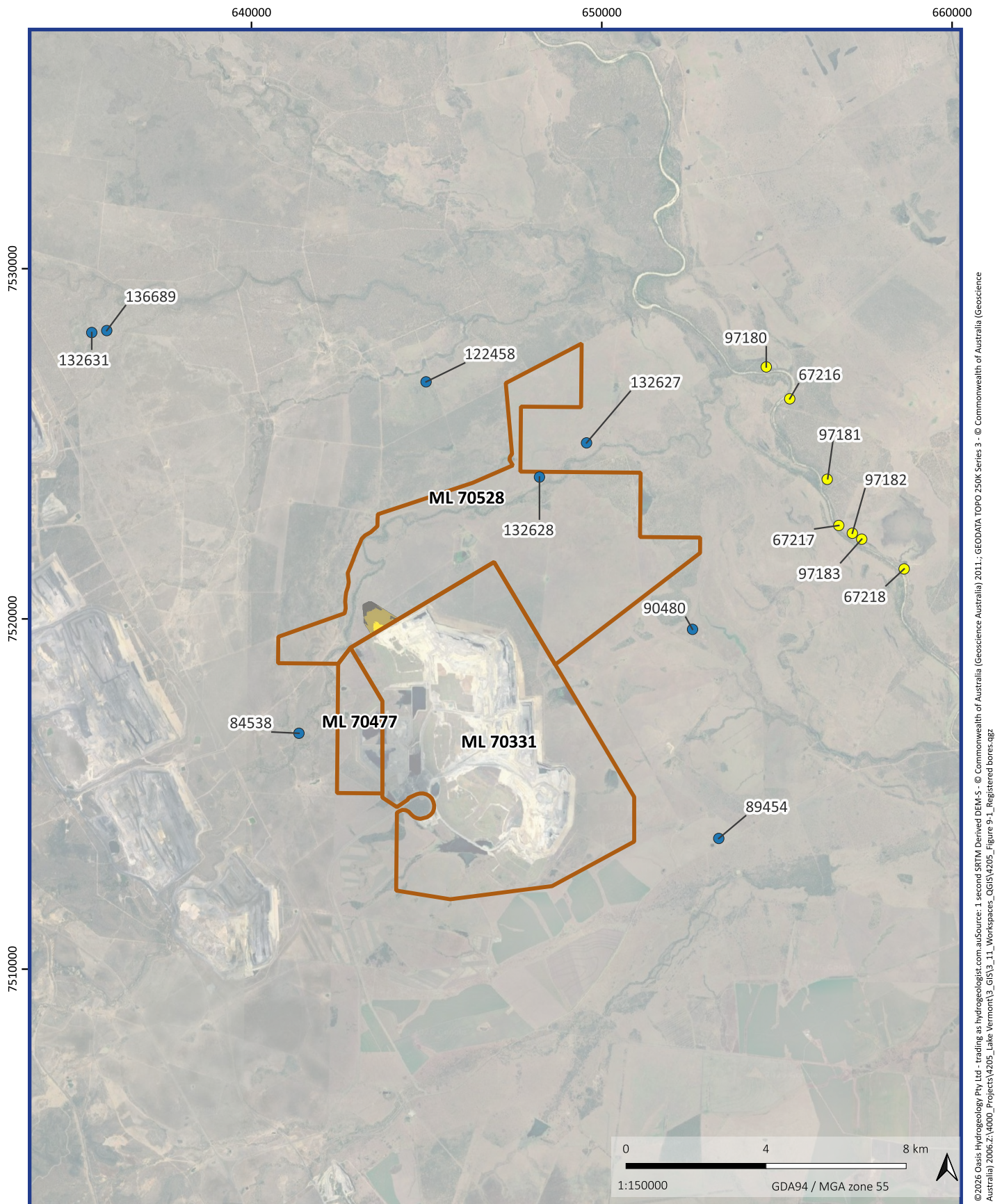
The groundwater model impact assessment considered registered groundwater bores within and surrounding the Project area. The applicable Water Act drawdown thresholds are 2 m for unconsolidated aquifers, and 5 m for consolidated aquifers. The predicted drawdown extents presented in the groundwater model impact assessment were conservatively assessed using the 1 m drawdown contour.

Two registered groundwater bores, registered number (RN) 132627 and RN 132628, were identified within the conservative 1 m predicted drawdown extent for the Permian strata. RN 132627 was historically potentially used for water supply but has subsequently been destroyed. RN 132628 is located on land owned by the Proponent and was therefore not considered further in the assessment of impacts to private groundwater users.

No private groundwater bores are predicted to be impacted by the Project. The groundwater model impact assessment concluded that the risk of impacts to groundwater levels in existing registered groundwater bores is low.

Table 9-1 Registered bore details

Registered bore	Drilled date	Easting (GDA94)	Northing (GDA94)
67216	18/06/1996	655364	7526286
67217	1/10/1984	656764	7522670
67218	1/10/1984	658629	7521429
84538	1/01/1954	641354	7516737
89454	18/10/1972	653338	7513734
90480	1/11/1998	652589	7519704
97180	11/06/1996	654694	7527196
97181	22/06/1996	656434	7523988
97182	14/06/1996	657151	7522448
97183	15/06/1996	657419	7522279
122458	21/03/2006	644983	7526770
132627	29/04/2007	649564	7525028
132628	28/04/2007	648220	7524052
132631	18/01/2007	635440	7528179
136689	18/01/2007	635868	7528234



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Legend

- Quaternary alluvium bore
- Permian bore
- Lake Vermont Mining Lease

Mine extent elevation (mAHD)

- ≤ 180
- 180 - 185
- 185 - 190
- > 190

Registered Groundwater Bores

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Figure 9-1

04/09/2026

10. Conclusions

Mining activities within ML 70528 commenced on 1 July 2025. During the reporting period, mining was limited to initial overburden removal at Phillips West to a depth of approximately 10 m. The underlying Permian coal measures were not intersected, the overburden encountered was dry and no associated water was taken under AWL 620850.

Groundwater levels recorded across the monitoring network were generally consistent with historical observations, with no consistent network wide decline or groundwater response attributable to mining within ML 70528. Actual groundwater drawdown contours were not prepared for the reporting period as no distinct mining related drawdown was identified from which meaningful contours could be generated.

Groundwater quality during the reporting period was also consistent with historical observations. Minor variability was recorded in individual parameters and monitoring bores, however no consistent network wide change in groundwater quality or spatially consistent response attributable to mining was identified.

No review or update of the numerical groundwater model was undertaken during the reporting period. Given the limited extent and depth of mining and the absence of associated water take, a meaningful quantitative comparison between observed and model predicted mining related drawdown could not be made during the reporting period. Monitoring data will be compared against corresponding model predictions as mining progresses and associated water take commences.

Two registered bores, RN 132627 and RN 132628, were identified within the modelled 1 m predicted drawdown extent for the Permian strata. RN 132627 has subsequently been destroyed, and RN 132628 is located on land owned by BBC. The groundwater model impact assessment concluded that no private groundwater bores are predicted to be impacted by the Project.

11. References

SLR Consulting Australia, 2025. Lake Vermont North Groundwater Modelling Technical Report. Final/Rev 3.0, 13 March 2025.

Queensland Government. Associated Water Licence 620850, Water Act 2000.

Appendix A Raw data water level

Table A-1 Bore levels

Monitoring location	Hydrogeological unit	Date	Depth to water (mTOC)
1238-MB1	Tertiary	15/07/2025	24.34
1238-MB1	Tertiary	04/09/2025	24.45
1238-MB1	Tertiary	04/11/2025	24.40
1238-MB1	Tertiary	10/02/2026	24.22
1238-MB1	Tertiary	11/06/2026	24.44
1238-MB2	Permian (Vermont seam)	15/07/2025	30.55
1238-MB2	Permian (Vermont seam)	04/09/2025	30.32
1238-MB2	Permian (Vermont seam)	04/11/2025	30.50
1238-MB2	Permian (Vermont seam)	10/02/2026	30.23
1238-MB2	Permian (Vermont seam)	11/06/2026	30.30
2218-MB2	Rewan Group	15/07/2025	23.03
2218-MB2	Rewan Group	03/09/2025	22.85
2218-MB2	Rewan Group	04/11/2025	22.83
2218-MB2	Rewan Group	10/02/2026	22.74
2218-MB2	Rewan Group	11/06/2026	22.60
2218-MB3	Permian (Leichhardt seam)	15/07/2025	23.43
2218-MB3	Permian (Leichhardt seam)	03/09/2025	23.34
2218-MB3	Permian (Leichhardt seam)	04/11/2025	23.48
2218-MB3	Permian (Leichhardt seam)	10/02/2026	22.67
2218-MB3	Permian (Leichhardt seam)	11/06/2026	22.55
2226-MB2	Rewan Group	15/07/2025	19.45
2226-MB2	Rewan Group	03/09/2025	18.60
2226-MB2	Rewan Group	04/11/2025	19.67
2226-MB2	Rewan Group	10/02/2026	19.48
2226-MB2	Rewan Group	11/06/2026	19.02
2226-MB3	Permian (Leichhardt seam)	15/07/2025	22.23
2226-MB3	Permian (Leichhardt seam)	03/09/2025	22.25
2226-MB3	Permian (Leichhardt seam)	04/11/2025	22.24
2226-MB3	Permian (Leichhardt seam)	10/02/2026	22.10
2226-MB3	Permian (Leichhardt seam)	11/06/2026	22.25
2369W-MB1	Tertiary	15/07/2025	20.87
2369W-MB1	Tertiary	03/09/2025	20.87
2369W-MB1	Tertiary	04/11/2025	20.87
2369W-MB1	Tertiary	10/02/2026	20.48
2369W-MB1	Tertiary	11/06/2026	20.48
2370W-MB1	Tertiary	15/07/2025	18.85
2370W-MB1	Tertiary	03/09/2025	18.85
2370W-MB1	Tertiary	04/11/2025	18.85
2370W-MB1	Tertiary	10/02/2026	18.89
2370W-MB1	Tertiary	11/06/2026	18.92
2371W-MB1	Tertiary	15/07/2025	18.05

Table A-1 Bore levels

Monitoring location	Hydrogeological unit	Date	Depth to water (mTOC)
2371W-MB1	Tertiary	03/09/2025	18.05
2371W-MB1	Tertiary	04/11/2025	18.08
2371W-MB1	Tertiary	10/02/2026	18.12
2371W-MB1	Tertiary	11/06/2026	17.86
2372-MB1	Tertiary	15/07/2025	22.97
2372-MB1	Tertiary	03/09/2025	23.00
2372-MB1	Tertiary	04/11/2025	23.03
2372-MB1	Tertiary	10/02/2026	22.90
2372-MB1	Tertiary	11/06/2026	22.20
2372-MB2	Rewan Group	15/07/2025	22.95
2372-MB2	Rewan Group	03/09/2025	23.00
2372-MB2	Rewan Group	04/11/2025	23.03
2372-MB2	Rewan Group	10/02/2026	22.90
2372-MB2	Rewan Group	11/06/2026	22.90
2372-MB3	Permian (Vermont seam)	15/07/2025	21.19
2372-MB3	Permian (Vermont seam)	03/09/2025	21.25
2372-MB3	Permian (Vermont seam)	04/11/2025	21.26
2372-MB3	Permian (Vermont seam)	10/02/2026	21.21
2372-MB3	Permian (Vermont seam)	11/06/2026	21.27
2375-MB2	Permian (Vermont seam)	15/07/2025	26.10
2375-MB2	Permian (Vermont seam)	03/09/2025	26.05
2375-MB2	Permian (Vermont seam)	04/11/2025	26.12
2375-MB2	Permian (Vermont seam)	10/02/2026	26.08
2375-MB2	Permian (Vermont seam)	11/06/2026	26.16
2393-MB1	Tertiary	15/07/2025	21.52
2393-MB1	Tertiary	03/09/2025	21.40
2393-MB1	Tertiary	04/11/2025	21.40
2393-MB1	Tertiary	10/02/2026	21.40
2393-MB1	Tertiary	11/06/2026	21.31
2393-MB2	Permian (Leichhardt seam)	15/07/2025	22.76
2393-MB2	Permian (Leichhardt seam)	03/09/2025	22.74
2393-MB2	Permian (Leichhardt seam)	04/11/2025	22.82
2393-MB2	Permian (Leichhardt seam)	10/02/2026	22.18
2393-MB2	Permian (Leichhardt seam)	11/06/2026	21.98
2393-MB3	Permian (Vermont seam)	15/07/2025	22.97
2393-MB3	Permian (Vermont seam)	03/09/2025	23.16
2393-MB3	Permian (Vermont seam)	04/11/2025	23.54
2393-MB3	Permian (Vermont seam)	10/02/2026	21.79
2393-MB3	Permian (Vermont seam)	11/06/2026	22.26
2394-MB1	Tertiary	15/07/2025	24.37
2394-MB1	Tertiary	03/09/2025	24.39

Table A-1 Bore levels

Monitoring location	Hydrogeological unit	Date	Depth to water (mTOC)
2394-MB1	Tertiary	04/11/2025	24.34
2394-MB1	Tertiary	10/02/2026	24.31
2394-MB1	Tertiary	11/06/2026	24.35
2394-MB2	Rewan Group	15/07/2025	22.30
2394-MB2	Rewan Group	03/09/2025	22.31
2394-MB2	Rewan Group	04/11/2025	22.32
2394-MB2	Rewan Group	10/02/2026	22.18
2394-MB2	Rewan Group	11/06/2026	22.23
W15_MB1	Tertiary	30/04/2026	
West-MB1	Tertiary	15/07/2025	23.62
West-MB1	Tertiary	03/09/2025	23.64
West-MB1	Tertiary	04/11/2025	23.63
West-MB1	Tertiary	10/02/2026	23.76
West-MB1	Tertiary	11/06/2026	23.74
West-MB2	Permian coal measures	15/07/2025	21.31
West-MB2	Permian coal measures	03/09/2025	20.34
West-MB2	Permian coal measures	04/11/2025	21.28
West-MB2	Permian coal measures	10/02/2026	21.22
West-MB2	Permian coal measures	11/06/2026	20.50

Table A-2 VWP levels

Monitoring location	Sensor	Sensor depth (mbgl)	Hydrogeological unit	Date	Groundwater elevation (mAHD)
1235C-VWP	VW4	58.0	Permian coal measures	15/07/2025	133.62
1235C-VWP	VW4	58.0	Permian coal measures	04/09/2025	133.66
1235C-VWP	VW4	58.0	Permian coal measures	04/11/2025	133.53
1235C-VWP	VW4	58.0	Permian coal measures	10/02/2026	133.52
1235C-VWP	VW4	58.0	Permian coal measures	11/06/2026	133.60
1235C-VWP	VW3	72.0	Permian coal measures	15/07/2025	133.17
1235C-VWP	VW3	72.0	Permian coal measures	04/09/2025	133.22
1235C-VWP	VW3	72.0	Permian coal measures	04/11/2025	133.09
1235C-VWP	VW3	72.0	Permian coal measures	10/02/2026	133.07
1235C-VWP	VW3	72.0	Permian coal measures	11/06/2026	133.17
1235C-VWP	VW2	90.0	Permian coal measures	15/07/2025	132.39
1235C-VWP	VW2	90.0	Permian coal measures	04/09/2025	132.36
1235C-VWP	VW2	90.0	Permian coal measures	04/11/2025	132.38
1235C-VWP	VW2	90.0	Permian coal measures	10/02/2026	132.32
1235C-VWP	VW2	90.0	Permian coal measures	11/06/2026	132.37
1235C-VWP	VW1	107.0	Permian coal measures	15/07/2025	127.18
1235C-VWP	VW1	107.0	Permian coal measures	04/09/2025	127.24
1235C-VWP	VW1	107.0	Permian coal measures	04/11/2025	127.78
1235C-VWP	VW1	107.0	Permian coal measures	10/02/2026	127.42
1235C-VWP	VW1	107.0	Permian coal measures	11/06/2026	129.20
2183-VWP	VW4	40.0	Permian coal measures	15/07/2025	144.98
2183-VWP	VW4	40.0	Permian coal measures	04/09/2025	144.97
2183-VWP	VW4	40.0	Permian coal measures	04/11/2025	144.88
2183-VWP	VW4	40.0	Permian coal measures	10/02/2026	144.89
2183-VWP	VW3	61.0	Permian coal measures	15/07/2025	134.94
2183-VWP	VW3	61.0	Permian coal measures	04/09/2025	134.89
2183-VWP	VW3	61.0	Permian coal measures	04/11/2025	134.67
2183-VWP	VW3	61.0	Permian coal measures	10/02/2026	135.01
2183-VWP	VW2	71.0	Permian coal measures	15/07/2025	132.61
2183-VWP	VW2	71.0	Permian coal measures	04/09/2025	132.58
2183-VWP	VW2	71.0	Permian coal measures	04/11/2025	132.36
2183-VWP	VW2	71.0	Permian coal measures	10/02/2026	132.65
2183-VWP	VW1	83.0	Permian coal measures	15/07/2025	130.81
2183-VWP	VW1	83.0	Permian coal measures	04/09/2025	130.81
2183-VWP	VW1	83.0	Permian coal measures	04/11/2025	130.53
2183-VWP	VW1	83.0	Permian coal measures	10/02/2026	131.39
2218-VWP	VW4	65.0	Rewan Group / Permian coal measures	15/07/2025	163.77
2218-VWP	VW4	65.0	Rewan Group / Permian coal measures	03/09/2025	161.86
2218-VWP	VW4	65.0	Rewan Group / Permian coal measures	04/11/2025	150.15
2218-VWP	VW4	65.0	Rewan Group / Permian coal measures	10/02/2026	165.97
2218-VWP	VW4	65.0	Rewan Group / Permian coal measures	11/06/2026	169.17
2218-VWP	VW3	86.0	Rewan Group / Permian coal measures	15/07/2025	149.56
2218-VWP	VW3	86.0	Rewan Group / Permian coal measures	03/09/2025	149.50
2218-VWP	VW3	86.0	Rewan Group / Permian coal measures	04/11/2025	149.38
2218-VWP	VW3	86.0	Rewan Group / Permian coal measures	10/02/2026	150.12
2218-VWP	VW3	86.0	Rewan Group / Permian coal measures	11/06/2026	150.42
2218-VWP	VW2	116.0	Rewan Group / Permian coal measures	15/07/2025	146.63
2218-VWP	VW2	116.0	Rewan Group / Permian coal measures	03/09/2025	146.54
2218-VWP	VW2	116.0	Rewan Group / Permian coal measures	04/11/2025	146.44
2218-VWP	VW2	116.0	Rewan Group / Permian coal measures	10/02/2026	147.09
2218-VWP	VW2	116.0	Rewan Group / Permian coal measures	11/06/2026	147.45
2218-VWP	VW1	137.0	Rewan Group / Permian coal measures	15/07/2025	146.90
2218-VWP	VW1	137.0	Rewan Group / Permian coal measures	03/09/2025	146.75
2218-VWP	VW1	137.0	Rewan Group / Permian coal measures	04/11/2025	146.33
2218-VWP	VW1	137.0	Rewan Group / Permian coal measures	10/02/2026	147.97
2218-VWP	VW1	137.0	Rewan Group / Permian coal measures	11/06/2026	147.61
2226-VWP	VW4	38.0	Rewan Group	15/07/2025	162.47
2226-VWP	VW4	38.0	Rewan Group	03/09/2025	162.45
2226-VWP	VW4	38.0	Rewan Group	04/11/2025	162.39
2226-VWP	VW4	38.0	Rewan Group	11/06/2026	167.62
2226-VWP	VW2	74.0	Rewan Group	15/07/2025	157.10
2226-VWP	VW2	74.0	Rewan Group	03/09/2025	157.07
2226-VWP	VW2	74.0	Rewan Group	04/11/2025	157.04
2226-VWP	VW2	74.0	Rewan Group	11/06/2026	157.19

Table A-2 VWP levels

Monitoring location	Sensor	Sensor depth (mbgl)	Hydrogeological unit	Date	Groundwater elevation (mAHD)
2226-VWP	VW1	94.0	Rewan Group	15/07/2025	155.81
2226-VWP	VW1	94.0	Rewan Group	03/09/2025	155.79
2226-VWP	VW1	94.0	Rewan Group	04/11/2025	155.78
2226-VWP	VW1	94.0	Rewan Group	11/06/2026	155.88
2372R-VWP	VW4	73.0	Permian coal measures	15/07/2025	148.81
2372R-VWP	VW4	73.0	Permian coal measures	03/09/2025	148.54
2372R-VWP	VW4	73.0	Permian coal measures	04/11/2025	148.23
2372R-VWP	VW4	73.0	Permian coal measures	10/02/2026	149.24
2372R-VWP	VW4	73.0	Permian coal measures	11/06/2026	148.60
2372R-VWP	VW3	93.5	Permian coal measures	15/07/2025	145.02
2372R-VWP	VW3	93.5	Permian coal measures	03/09/2025	144.86
2372R-VWP	VW3	93.5	Permian coal measures	04/11/2025	144.69
2372R-VWP	VW3	93.5	Permian coal measures	10/02/2026	145.29
2372R-VWP	VW3	93.5	Permian coal measures	11/06/2026	144.58
2372R-VWP	VW2	108.0	Permian coal measures	15/07/2025	141.04
2372R-VWP	VW2	108.0	Permian coal measures	03/09/2025	140.95
2372R-VWP	VW2	108.0	Permian coal measures	04/11/2025	140.86
2372R-VWP	VW2	108.0	Permian coal measures	10/02/2026	141.14
2372R-VWP	VW2	108.0	Permian coal measures	11/06/2026	140.64
2372R-VWP	VW1	125.0	Permian coal measures	15/07/2025	144.44
2372R-VWP	VW1	125.0	Permian coal measures	03/09/2025	144.45
2372R-VWP	VW1	125.0	Permian coal measures	04/11/2025	144.40
2372R-VWP	VW1	125.0	Permian coal measures	10/02/2026	144.48
2372R-VWP	VW1	125.0	Permian coal measures	11/06/2026	144.53
2375W-VWP	VW3	50.0	Permian coal measures	15/07/2025	141.89
2375W-VWP	VW3	50.0	Permian coal measures	03/09/2025	141.87
2375W-VWP	VW3	50.0	Permian coal measures	04/11/2025	141.82
2375W-VWP	VW3	50.0	Permian coal measures	10/02/2026	147.93
2375W-VWP	VW3	50.0	Permian coal measures	11/06/2026	152.28
2375W-VWP	VW2	67.5	Permian coal measures	15/07/2025	141.52
2375W-VWP	VW2	67.5	Permian coal measures	03/09/2025	141.52
2375W-VWP	VW2	67.5	Permian coal measures	04/11/2025	141.48
2375W-VWP	VW2	67.5	Permian coal measures	10/02/2026	141.68
2375W-VWP	VW2	67.5	Permian coal measures	11/06/2026	142.41
2375W-VWP	VW1	78.0	Permian coal measures	15/07/2025	140.18
2375W-VWP	VW1	78.0	Permian coal measures	03/09/2025	140.15
2375W-VWP	VW1	78.0	Permian coal measures	04/11/2025	140.11
2375W-VWP	VW1	78.0	Permian coal measures	10/02/2026	140.19
2375W-VWP	VW1	78.0	Permian coal measures	11/06/2026	140.53

Appendix B Raw data water quality

Table B1 Field results

Monitoring location	Date	EC ($\mu\text{S}/\text{cm}$)	pH	Temperature ($^{\circ}\text{C}$)
1238-MB1	15-Jul-2025	18390	6.24	26.9
1238-MB1	04-Sep-2025	18096	6.24	24.5
1238-MB1	04-Nov-2025	18721	6.27	27.8
1238-MB1	10-Feb-2026	18772	6.27	29.1
1238-MB1	11-Jun-2026	18668	6.32	25.4
1238-MB2	15-Jul-2025	16682	6.33	26.7
1238-MB2	04-Sep-2025	16875	6.39	24.5
1238-MB2	04-Nov-2025	17067	6.42	28
1238-MB2	10-Feb-2026	17398	6.41	29.7
1238-MB2	11-Jun-2026	17095	6.44	24.9
2218-MB2	15-Jul-2025	24580	6.65	23.4
2218-MB2	03-Sep-2025	23254	6.72	26.4
2218-MB2	04-Nov-2025	24547	6.68	29.3
2218-MB2	10-Feb-2026	24263	6.67	27.1
2218-MB2	11-Jun-2026	23271	6.73	24.2
2218-MB3	15-Jul-2025	25208	6.6	23.6
2218-MB3	03-Sep-2025	25067	6.56	26.3
2218-MB3	04-Nov-2025	23488	6.73	28.8
2218-MB3	10-Feb-2026	25115	6.62	27.5
2218-MB3	11-Jun-2026	26058	6.67	22.4
2226-MB2	15-Jul-2025	3505	7.08	23.7
2226-MB2	03-Sep-2025	3337	7.08	25.9
2226-MB2	04-Nov-2025	3520	7.09	27.4
2226-MB2	10-Feb-2026	3387	7.09	26.4
2226-MB2	11-Jun-2026	2198	7.09	22.3
2226-MB3	15-Jul-2025	9787	6.71	24.8
2226-MB3	03-Sep-2025	9445	6.75	26.4
2226-MB3	04-Nov-2025	9695	6.74	28.1
2226-MB3	10-Feb-2026	10036	6.74	27
2226-MB3	11-Jun-2026	10234	6.77	23.6
2371W-MB1	15-Jul-2025	22118	6.96	23.8
2371W-MB1	03-Sep-2025	22066	6.99	26.8
2371W-MB1	04-Nov-2025	22320	6.97	27.5
2371W-MB1	10-Feb-2026	22535	7.02	26.4
2371W-MB1	11-Jun-2026	21592	7.04	21.5
2372-MB1	15-Jul-2025	34500	6.32	24.6
2372-MB1	03-Sep-2025	33747	6.36	24.3
2372-MB1	04-Nov-2025	34240	6.31	27.2
2372-MB1	10-Feb-2026	36341	6.38	28.4
2372-MB1	11-Jun-2026	33595	6.42	24.3
2372-MB2	15-Jul-2025	28574	6.22	24
2372-MB2	03-Sep-2025	28213	6.29	23.9
2372-MB2	04-Nov-2025	29223	6.27	26
2372-MB2	10-Feb-2026	28930	6.32	27
2372-MB2	11-Jun-2026	29440	6.34	24.4

Table B1 Field results

Monitoring location	Date	EC ($\mu\text{S}/\text{cm}$)	pH	Temperature ($^{\circ}\text{C}$)
2372-MB3	15-Jul-2025	28037	6.44	25.8
2372-MB3	03-Sep-2025	28688	6.43	25.5
2372-MB3	04-Nov-2025	30137	6.45	27.4
2372-MB3	10-Feb-2026	30316	6.44	28.6
2372-MB3	11-Jun-2026	29693	6.5	25.5
2375-MB2	15-Jul-2025	9580	6.45	25.7
2375-MB2	03-Sep-2025	8601	6.55	23.9
2375-MB2	04-Nov-2025	11463	6.46	28.4
2375-MB2	10-Feb-2026	9729	6.53	29.3
2375-MB2	11-Jun-2026	11857	6.5	24.9
2393-MB1	15-Jul-2025	8288	6.8	23.6
2393-MB1	03-Sep-2025	8270	6.79	26.1
2393-MB1	04-Nov-2025	8428	6.82	27.6
2393-MB1	10-Feb-2026	8498	6.78	27.8
2393-MB1	11-Jun-2026	8383	6.87	24.6
2393-MB2	15-Jul-2025	2330	7.12	25.3
2393-MB2	03-Sep-2025	2383	7.1	25.1
2393-MB2	04-Nov-2025	2467	7.16	27.1
2393-MB2	10-Feb-2026	2503	7.07	27.9
2393-MB2	11-Jun-2026	2533	7.17	24.7
2393-MB3	15-Jul-2025	11419	6.81	24.5
2393-MB3	03-Sep-2025	18162	6.64	25.6
2393-MB3	04-Nov-2025	16765	6.7	29
2393-MB3	10-Feb-2026	18900	6.62	28.2
2393-MB3	11-Jun-2026	18497	6.69	25.2
2394-MB1	15-Jul-2025	23334	6.57	25
2394-MB1	03-Sep-2025	23117	6.55	25.2
2394-MB1	04-Nov-2025	23520	6.53	27.5
2394-MB1	10-Feb-2026	23933	6.54	27.5
2394-MB1	11-Jun-2026	23622	6.63	23.5
2394-MB2	15-Jul-2025	27228	6.86	26.4
2394-MB2	03-Sep-2025	27407	6.88	26.2
2394-MB2	04-Nov-2025	28086	6.87	27.7
2394-MB2	10-Feb-2026	28479	6.87	27.9
2394-MB2	11-Jun-2026	27139	6.87	23.2
West-MB1	15-Jul-2025	2861	6.78	20.6
West-MB1	03-Sep-2025	2667	6.86	27.2
West-MB1	04-Nov-2025	2798	6.82	26.9
West-MB1	10-Feb-2026	2892	6.82	25.5
West-MB1	11-Jun-2026	2786	6.85	21.3
West-MB2	15-Jul-2025	3614	7.18	23.2
West-MB2	03-Sep-2025	3107	7.18	27
West-MB2	04-Nov-2025	3165	7.2	28.4
West-MB2	10-Feb-2026	3541	7.19	26.8
West-MB2	11-Jun-2026	3402	7.27	22.1

Table B-2 Lab results

Monitoring location:	1238-MB1	1238-MB1	1238-MB1	1238-MB1	1238-MB1	1238-MB2	1238-MB2	1238-MB2	1238-MB2	1238-MB2	2218-MB2	2218-MB2	2218-MB2	2218-MB2	2218-MB2
Date:	15-Jul-2025	04-Sep-2025	04-Nov-2025	10-Feb-2026	11-Jun-2026	15-Jul-2025	04-Sep-2025	04-Nov-2025	10-Feb-2026	11-Jun-2026	15-Jul-2025	03-Sep-2025	04-Nov-2025	10-Feb-2026	11-Jun-2026
Aluminium - Dissolved	ug/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<50	<10	<10	<10	<10
Aluminium - Total	ug/L	380	420	380	60	220	1210	70	150	1170	540	1130	830	770	930
Ammonia as N	mg/L														
Arsenic - Dissolved	ug/L	1	1	<1	<1	<1	1	<1	<1	<1	<5	<1	<1	<1	<1
Arsenic - Total	ug/L	1	<1	1	<1	<1	1	<1	1	<1	<5	<1	<5	<1	<1
Boron - Dissolved	ug/L	410	360	400	390	340	390	440	340	320	310	360	320	270	300
Boron - Total	ug/L	460	370	500	420	350	410	300	460	370	350	380	340	530	320
Cadmium - Dissolved	ug/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.1	<0.1	<0.1	<0.1
Cadmium - Total	ug/L	<0.1	<0.1	<0.1	<0.1	<0.1	0.5	<0.1	0.2	0.3	0.2	<0.5	<0.1	<0.5	<0.1
Chromium - Dissolved	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1	<1
Chromium - Total	ug/L	1	2	2	<1	<1	1	<1	<1	<1	<5	2	<5	2	2
Cobalt - Dissolved	ug/L	9	9	9	9	9	8	6	6	7	6	<5	<1	<1	<1
Cobalt - Total	ug/L	9	10	11	9	10	8	6	8	7	7	<5	<1	<5	<1
Copper - Dissolved	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<1	2	<1	<1
Copper - Total	ug/L	<1	1	1	<1	<1	5	<1	2	7	2	<5	2	<5	2
Electrical Conductivity	uS/cm	19700	17400	17700	18200	18100	17900	15900	17000	17000	17200	24900	23500	23900	23800
Fluoride - Total	ug/L	300	300	300	300	300	600	300	600	600	500	200	200	200	200
Hydrocarbons (C10-C36) - TPH	ug/L	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
Hydrocarbons (C6-C9) - TPH	ug/L	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
Iron - Dissolved	ug/L	1140	980	840	<50	1010	360	220	250	230	230	4800	4580	3770	4060
Iron - Total	ug/L	1480	1420	1370	1080	1260	860	400	460	1230	390	5460	5860	5970	5350
Lead - Dissolved	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1	<1
Lead - Total	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<1	<5	<1	<1
Manganese - Dissolved	ug/L	47	44	45	52	47	1190	1110	1240	1130	317	281	244	263	250
Manganese - Total	ug/L	46	47	52	48	49	1200	1070	1410	1020	1170	290	278	303	267
Mercury - Dissolved	ug/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.1	<0.1	<0.1	<0.1
Mercury - Total	ug/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.1	<0.5	<0.1	<0.1
Molybdenum - Dissolved	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	2	2	2	1
Molybdenum - Total	ug/L	<1	<1	<1	<1	<1	<1	1	<1	<1	<5	2	<5	2	1
Nickel - Dissolved	ug/L	4	4	5	5	5	2	2	2	2	2	<5	<1	<1	<1
Nickel - Total	ug/L	5	6	6	5	5	3	2	3	3	2	<5	5	<5	4
pH	Unit	7.46	7.52	7.44	6.86	7.47	7.62	7.53	7.57	7.02	7.61	7.75	7.8	7.85	7.61
Selenium - Dissolved	ug/L	<10	<10	<10	<4	<4	<10	<10	<10	<4	<4	<50	<10	<10	<4
Selenium - Total	ug/L	<10	<10	<10	<4	<4	<10	<10	<10	<4	<4	<50	<10	<21	<4
Silver - Dissolved	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1	<1
Silver - Total	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<1	<5	<1	2
Sodium	mg/L	2200	2520	2310	2270	2190	2380	2470	2160	2300	2250	4360	3910	3720	4100
Sulphate	mg/L	381	495	491	494	511	360	423	442	433	463	184	177	189	187
Uranium - Dissolved	ug/L	14	12	14	10	13	1	2	1	1	1	<5	<1	<1	<1
Uranium - Total	ug/L	15	16	14	15	14	2	1	1	1	2	<5	<1	<5	<1
Vanadium - Dissolved	ug/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<50	<10	<10	<10
Vanadium - Total	ug/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<50	<10	<50	<10
Zinc - Dissolved	ug/L	5	<5	<5	7	<5	<5	<5	7	<5	<5	<25	<5	<5	<5
Zinc - Total	ug/L	11	9	10	9	11	14	11	8	14	<5	<26	11	<26	11
Bicarb. Alka. as CaCO3	mg/L	540	526	496	505	512	486	480	452	456	451	563	553	522	524
Calcium	mg/L	644	740	688	689	680	466	495	420	474	437	320	349	287	333
Chloride	mg/L	6400	6600	6070	6360	6340	5710	5980	5570	5810	5930	8530	8540	8210	8260
Magnesium	mg/L	609	684	585	625	587	494	515	403	449	485	606	548	504	533
Potassium	mg/L	3	3	3	3	3	7	7	8	7	7	12	12	11	11

Table B-2 Lab results

Monitoring location:		2218-MB3	2218-MB3	2218-MB3	2218-MB3	2218-MB3	2226-MB2	2226-MB2	2226-MB2	2226-MB2	2226-MB2	2226-MB3	2226-MB3	2226-MB3	2226-MB3	2226-MB3
Date:		15-Jul-2025	03-Sep-2025	04-Nov-2025	10-Feb-2026	11-Jun-2026	15-Jul-2025	03-Sep-2025	04-Nov-2025	10-Feb-2026	11-Jun-2026	15-Jul-2025	03-Sep-2025	04-Nov-2025	10-Feb-2026	11-Jun-2026
Aluminium - Dissolved	ug/L	<50	<50	<10	<10	<50	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aluminium - Total	ug/L	60	<50	60	40	90	590	300	180	<10	150	280	220	240	220	80
Ammonia as N	mg/L															
Arsenic - Dissolved	ug/L	<5	<5	<1	<1	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Arsenic - Total	ug/L	<5	<5	<5	<1	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Boron - Dissolved	ug/L	350	330	350	290	340	650	570	590	570	510	520	520	470	510	510
Boron - Total	ug/L	420	330	510	320	310	670	640	520	640	520	610	580	470	590	450
Cadmium - Dissolved	ug/L	<0.5	<0.5	<0.1	<0.1	<0.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Cadmium - Total	ug/L	<0.5	<0.5	<0.5	<0.1	<0.5	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chromium - Dissolved	ug/L	<5	<5	<1	<1	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chromium - Total	ug/L	<5	<5	<5	2	<5	1	1	<1	<1	<1	1	2	2	1	<1
Cobalt - Dissolved	ug/L	<5	<5	<1	<1	<5	<1	<1	<1	3	<1	<1	<1	<1	<1	<1
Cobalt - Total	ug/L	<5	<5	<5	<1	<5	<1	<1	<1	3	<1	<1	<1	<1	<1	<1
Copper - Dissolved	ug/L	<5	<5	<1	<1	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Copper - Total	ug/L	<5	<5	<5	<1	<5	2	<1	<1	<1	<1	1	2	2	1	<1
Electrical Conductivity	uS/cm	26600	24000	24500	25400	25700	3560	3370	3420	3520	3260	10400	9200	9680	10200	9520
Fluoride - Total	ug/L	<100	<100	100	<100	<100	2100	2000	2100	<100	1900	600	600	600	600	600
Hydrocarbons (C10-C36) - TPH	ug/L	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
Hydrocarbons (C6-C9) - TPH	ug/L	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
Iron - Dissolved	ug/L	1130	1320	460	1010	1310	110	130	120	190	310	540	550	440	490	520
Iron - Total	ug/L	1200	1290	690	1110	1710	580	420	230	120	450	1290	1170	1220	1260	550
Lead - Dissolved	ug/L	<5	<5	<1	<1	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Lead - Total	ug/L	<5	<5	<5	<1	<5	1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Manganese - Dissolved	ug/L	104	82	138	87	79	25	24	19	64	66	56	60	52	55	61
Manganese - Total	ug/L	96	82	139	84	76	31	27	13	68	72	65	65	66	63	83
Mercury - Dissolved	ug/L	<0.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Mercury - Total	ug/L	<0.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Molybdenum - Dissolved	ug/L	<5	<5	9	4	<5	2	2	1	2	6	<1	<1	<1	<1	1
Molybdenum - Total	ug/L	6	<5	11	5	<5	3	3	2	3	7	1	1	1	<1	3
Nickel - Dissolved	ug/L	<5	<5	<1	<1	<5	<1	<1	<1	<1	2	<1	<1	<1	<1	<1
Nickel - Total	ug/L	<5	10	<5	2	5	3	1	<1	<1	3	7	3	3	2	13
pH	Unit	7.69	7.75	7.8	8.08	7.79	8.13	8.11	8.15	7.9	8.15	7.85	7.97	7.94	7.96	7.91
Selenium - Dissolved	ug/L	<50	<50	<10	<4	<20	<10	<10	<10	<4	<4	<10	<10	<10	<4	<4
Selenium - Total	ug/L	<50	<50	<21	<4	<21	<10	<10	<10	<4	<4	<10	<10	<10	<4	<4
Silver - Dissolved	ug/L	<5	<5	<1	<1	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Silver - Total	ug/L	<5	<5	<5	<1	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Sodium	mg/L	4710	4560	4470	4310	4580	692	675	682	675	580	1490	1480	1380	1600	1460
Sulphate	mg/L	184	175	172	196	197	148	138	150	153	149	348	394	371	399	377
Uranium - Dissolved	ug/L	<5	<5	<1	<1	<1	5	5	5	5	4	<1	<1	<1	<1	<1
Uranium - Total	ug/L	<5	<5	<5	<1	<5	6	6	5	5	4	<1	<1	<1	<1	<1
Vanadium - Dissolved	ug/L	<50	<50	<10	<10	<50	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Vanadium - Total	ug/L	<50	<50	<50	<10	<50	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Zinc - Dissolved	ug/L	<25	<25	<5	<5	<25	<5	<5	<5	<5	10	<5	<5	<5	<5	<5
Zinc - Total	ug/L	<26	<26	<26	9	<26	12	6	<5	6	8	13	12	13	10	15
Bicarb. Alka. as CaCO3	mg/L	492	477	415	453	451	1290	1190	1210	1190	1120	774	758	718	709	699
Calcium	mg/L	414	365	393	398	363	27	25	25	25	24	130	129	121	154	126
Chloride	mg/L	9030	8910	8510	8470	9000	432	512	445	454	441	3020	2930	2760	2990	2730
Magnesium	mg/L	565	563	469	486	553	67	65	63	59	53	269	265	249	266	249
Potassium	mg/L	16	15	15	14	14	<1	<1	<1	<1	1	4	4	3	4	4

Table B-2 Lab results

Monitoring location:	2371W-MB1	2371W-MB1	2371W-MB1	2371W-MB1	2371W-MB1	2372-MB1	2372-MB1	2372-MB1	2372-MB1	2372-MB1	2372-MB2	2372-MB2	2372-MB2	2372-MB2	2372-MB2
Date:	15-Jul-2025	03-Sep-2025	04-Nov-2025	10-Feb-2026	11-Jun-2026	15-Jul-2025	03-Sep-2025	04-Nov-2025	10-Feb-2026	11-Jun-2026	15-Jul-2025	03-Sep-2025	04-Nov-2025	10-Feb-2026	11-Jun-2026
Aluminium - Dissolved	ug/L	<50	<10	<10	<10	<10	<50	<50	<50	<50	<50	<50	<10	<50	<50
Aluminium - Total	ug/L	1850	1630	830	1200	1160	240	130	210	110	540	170	<50	130	210
Ammonia as N	mg/L														
Arsenic - Dissolved	ug/L	<5	<1	<1	<1	<1	<5	<5	<5	<5	<5	7	6	4	6
Arsenic - Total	ug/L	<5	<1	<1	<1	<1	<5	<5	<5	<5	<5	6	<5	8	6
Boron - Dissolved	ug/L	1490	1460	1180	1630	1290	590	550	440	540	540	580	550	480	530
Boron - Total	ug/L	1620	1400	1280	1500	1360	620	630	790	600	530	590	460	670	540
Cadmium - Dissolved	ug/L	<0.5	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.5
Cadmium - Total	ug/L	<0.5	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chromium - Dissolved	ug/L	<5	<1	<1	<1	<1	<5	<5	<5	<5	<5	<5	<5	<1	<5
Chromium - Total	ug/L	<5	4	2	2	2	<5	<5	<5	<5	<5	<5	<5	<5	<5
Cobalt - Dissolved	ug/L	<5	<1	3	<1	<1	<5	<5	<5	<5	<5	28	22	20	23
Cobalt - Total	ug/L	<5	4	5	3	3	<5	<5	<5	<5	<5	26	25	26	22
Copper - Dissolved	ug/L	<5	1	<1	1	<1	<5	<5	<5	<5	<5	<5	<5	<1	<5
Copper - Total	ug/L	<5	3	3	3	3	6	<5	<5	<5	<5	<5	<5	<5	<5
Electrical Conductivity	uS/cm	23200	21400	21100	21700	22100	39200	34100	34300	34600	34200	30600	28400	28300	29000
Fluoride - Total	ug/L	3400	4600	3300	3400	3200	300	300	300	300	300	700	700	700	700
Hydrocarbons (C10-C36) - TPH	ug/L	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
Hydrocarbons (C6-C9) - TPH	ug/L	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
Iron - Dissolved	ug/L	<50	<50	<50	<50	<50	670	550	740	550	420	1320	1060	60	1010
Iron - Total	ug/L	2070	2500	1480	1600	1820	800	470	1000	590	680	1380	1410	1440	1040
Lead - Dissolved	ug/L	<5	<1	<1	<1	<1	<5	<5	<5	<5	<5	<5	<5	<1	<5
Lead - Total	ug/L	<5	1	<1	<1	<1	<5	<5	<5	<5	<5	<5	<5	<5	<5
Manganese - Dissolved	ug/L	6	5	35	2	<1	338	255	285	255	242	700	530	415	623
Manganese - Total	ug/L	31	33	49	18	20	317	291	292	250	236	657	593	690	579
Mercury - Dissolved	ug/L	<0.5	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Mercury - Total	ug/L	<0.5	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.5
Molybdenum - Dissolved	ug/L	<5	2	2	2	2	<5	<5	<5	<5	<5	9	<5	<1	<5
Molybdenum - Total	ug/L	<5	2	2	2	2	<5	<5	<5	<5	<5	10	<5	<5	<5
Nickel - Dissolved	ug/L	6	5	5	5	4	5	<5	<5	<5	<5	7	5	6	7
Nickel - Total	ug/L	8	8	7	7	7	6	13	5	<5	<5	8	10	8	6
pH	Unit	7.96	8.02	7.95	7.91	8.02	7.49	7.43	7.45	6.9	7.58	7.47	7.55	7.4	6.9
Selenium - Dissolved	ug/L	<50	<10	<10	<4	<4	<50	<50	<20	<20	<20	<50	<50	<10	<20
Selenium - Total	ug/L	<50	<10	<10	<4	<4	<50	<50	<21	<21	<21	<50	<50	<21	<21
Silver - Dissolved	ug/L	<5	<1	<1	<1	<1	<5	<5	<5	<5	<5	<5	<5	<1	<5
Silver - Total	ug/L	<5	<1	<1	<1	<1	<5	<5	<5	<5	<5	<5	<5	<5	<5
Sodium	mg/L	4180	3850	3680	4400	4000	5950	5650	5110	5480	5540	4140	3920	4100	4040
Sulphate	mg/L	3030	3310	3170	3210	3230	1970	1880	1880	1860	1820	686	1080	977	1060
Uranium - Dissolved	ug/L	157	183	58	177	106	8	8	8	8	7	9	9	8	8
Uranium - Total	ug/L	178	175	160	177	169	8	8	12	8	7	9	<5	14	9
Vanadium - Dissolved	ug/L	<50	<10	<10	<10	<10	<50	<50	<50	<50	<50	<50	<50	<10	<50
Vanadium - Total	ug/L	<50	20	10	10	10	<50	<50	<50	<50	<50	<50	<50	<50	<50
Zinc - Dissolved	ug/L	<25	14	<5	<5	<5	<25	<25	<25	<25	<25	<25	<25	<5	<25
Zinc - Total	ug/L	<26	16	8	6	6	<26	<26	<26	<26	<26	<26	<26	<26	<26
Bicarb. Alka. as CaCO3	mg/L	2910	2830	2680	2670	2610	241	217	226	237	222	461	420	421	428
Calcium	mg/L	22	22	17	27	15	1070	969	938	1020	971	740	636	633	755
Chloride	mg/L	5600	5910	5080	5200	5540	12300	12000	11500	12000	11800	10000	9920	9640	9510
Magnesium	mg/L	1200	1140	1080	1170	1160	1180	1060	1030	1080	1030	1270	1140	1110	1240
Potassium	mg/L	4	3	3	3	3	5	4	4	4	4	7	5	7	6

Table B-2 Lab results

Monitoring location:		2372-MB3	2372-MB3	2372-MB3	2372-MB3	2372-MB3	2375-MB2	2375-MB2	2375-MB2	2375-MB2	2375-MB2	2393-MB1	2393-MB1	2393-MB1	2393-MB1	2393-MB1
Date:		15-Jul-2025	03-Sep-2025	04-Nov-2025	10-Feb-2026	11-Jun-2026	15-Jul-2025	03-Sep-2025	04-Nov-2025	10-Feb-2026	11-Jun-2026	15-Jul-2025	03-Sep-2025	04-Nov-2025	10-Feb-2026	11-Jun-2026
Aluminium - Dissolved	ug/L	<50	<50	<10	<50	<50	<10	<10	<10	<10	<10	<10	<10	<10	<10	10
Aluminium - Total	ug/L	190	80	190	140	250	50	30	60	60	40	1320	1020	740	360	710
Ammonia as N	mg/L															
Arsenic - Dissolved	ug/L	<5	<5	<1	<5	<5	<1	<1	<1	<1	<1	4	5	4	4	5
Arsenic - Total	ug/L	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1	6	5	5	4	5
Boron - Dissolved	ug/L	410	390	370	430	420	230	270	300	300	290	720	660	690	660	760
Boron - Total	ug/L	480	560	560	350	460	260	260	370	340	310	850	720	910	730	690
Cadmium - Dissolved	ug/L	<0.5	<0.5	<0.1	<0.5	<0.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Cadmium - Total	ug/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chromium - Dissolved	ug/L	<5	<5	<1	<5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chromium - Total	ug/L	<5	<5	<5	<5	<5	<1	<1	1	<1	<1	2	2	1	<1	1
Cobalt - Dissolved	ug/L	<5	<5	<1	<5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cobalt - Total	ug/L	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1	2	2	2	1	2
Copper - Dissolved	ug/L	<5	<5	<1	<5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Copper - Total	ug/L	<5	<5	<5	<5	<5	<1	<1	1	<1	<1	7	5	4	3	5
Electrical Conductivity	uS/cm	31300	28400	28900	28900	29200	11500	11000	11000	11400	11600	8590	8270	8240	8270	7960
Fluoride - Total	ug/L	100	100	100	100	100	300	300	300	300	300	700	600	700	700	600
Hydrocarbons (C10-C36) - TPH	ug/L	<50	<50	<50	120	<50	50	<50	<50	<50	<50	<50	<50	<50	<50	<50
Hydrocarbons (C6-C9) - TPH	ug/L	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
Iron - Dissolved	ug/L	960	780	930	790	710	420	720	920	1070	800	110	140	100	90	100
Iron - Total	ug/L	1310	820	1320	940	1220	670	980	1390	1360	970	1320	1080	710	360	810
Lead - Dissolved	ug/L	<5	<5	<1	<5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Lead - Total	ug/L	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1	4	2	1	1	1
Manganese - Dissolved	ug/L	225	190	205	240	229	200	204	224	229	211	262	298	279	283	272
Manganese - Total	ug/L	221	226	213	219	239	203	216	260	216	216	325	292	344	277	298
Mercury - Dissolved	ug/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Mercury - Total	ug/L	<0.5	<0.5	<0.1	<0.5	<0.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Molybdenum - Dissolved	ug/L	<5	<5	3	<5	<5	6	5	7	4	6	1	2	2	1	2
Molybdenum - Total	ug/L	<5	<5	<5	<5	<5	8	6	9	6	7	2	2	2	1	2
Nickel - Dissolved	ug/L	<5	<5	<1	<5	<5	<1	<1	<1	<1	<1	1	1	1	1	1
Nickel - Total	ug/L	10	12	6	<5	6	1	<1	2	1	1	5	4	3	2	4
pH	Unit	7.64	7.61	7.64	7.04	7.69	7.57	7.55	7.45	7.41	7.61	7.8	7.85	7.88	7.62	7.47
Selenium - Dissolved	ug/L	<50	<50	<10	<20	<20	<10	<10	<10	<4	<4	<10	<10	<10	<4	<4
Selenium - Total	ug/L	<50	<50	<21	<21	<21	<10	<10	<10	<4	<4	<10	<10	<10	<4	<4
Silver - Dissolved	ug/L	<5	<5	<1	<5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Silver - Total	ug/L	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Sodium	mg/L	4550	4710	4600	4460	4650	1390	1520	1440	1500	1440	1480	1500	1600	1560	1470
Sulphate	mg/L	518	768	716	778	793	288	342	335	336	342	305	323	339	345	355
Uranium - Dissolved	ug/L	<5	<5	<1	<5	<1	<1	<1	<1	<1	<1	6	7	6	6	7
Uranium - Total	ug/L	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1	8	7	7	7	7
Vanadium - Dissolved	ug/L	<50	<50	<10	<50	<50	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Vanadium - Total	ug/L	<50	<50	<50	<50	<50	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Zinc - Dissolved	ug/L	<25	<25	<5	<25	<25	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Zinc - Total	ug/L	<26	<26	<26	27	<26	7	<5	9	<5	<5	39	23	13	7	14
Bicarb. Alka. as CaCO3	mg/L	480	435	437	439	436	373	373	376	435	422	1020	937	945	940	932
Calcium	mg/L	640	538	594	678	632	329	323	325	362	326	67	66	74	67	63
Chloride	mg/L	10400	10100	9780	9770	10100	3610	3610	3510	3690	3750	2240	2210	2170	2090	2170
Magnesium	mg/L	794	798	710	799	815	281	303	273	303	291	120	122	113	115	119
Potassium	mg/L	19	16	18	16	16	8	10	11	9	10	2	2	3	2	2

Table B-2 Lab results

Monitoring location:	2393-MB2	2393-MB2	2393-MB2	2393-MB2	2393-MB2	2393-MB3	2393-MB3	2393-MB3	2393-MB3	2393-MB3	2394-MB1	2394-MB1	2394-MB1	2394-MB1	2394-MB1
Date:	15-Jul-2025	03-Sep-2025	04-Nov-2025	10-Feb-2026	11-Jun-2026	15-Jul-2025	03-Sep-2025	04-Nov-2025	10-Feb-2026	11-Jun-2026	15-Jul-2025	03-Sep-2025	04-Nov-2025	10-Feb-2026	11-Jun-2026
Aluminium - Dissolved	ug/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aluminium - Total	ug/L	1120	2020	8020	460	460	340	290	190	200	260	830	770	1220	340
Ammonia as N	mg/L														
Arsenic - Dissolved	ug/L	1	1	<1	1	1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Arsenic - Total	ug/L	1	2	2	1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<1
Boron - Dissolved	ug/L	490	430	470	440	520	380	400	420	370	450	940	920	420	970
Boron - Total	ug/L	530	510	470	490	420	470	470	460	430	360	1060	990	720	1020
Cadmium - Dissolved	ug/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Cadmium - Total	ug/L	<0.1	<0.1	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.1
Chromium - Dissolved	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chromium - Total	ug/L	1	4	19	1	<1	3	2	2	2	2	2	2	<5	1
Cobalt - Dissolved	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	3	3	1	2
Cobalt - Total	ug/L	<1	<1	3	<1	<1	<1	<1	<1	<1	<1	3	4	<5	2
Copper - Dissolved	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Copper - Total	ug/L	<1	3	13	<1	<1	2	2	2	1	2	2	2	<5	<1
Electrical Conductivity	uS/cm	2510	2310	2340	2450	2350	19500	16900	18000	17900	17900	24500	22900	22800	23000
Fluoride - Total	ug/L	1100	1000	1100	1100	200	1000	200	200	200	200	700	700	700	800
Hydrocarbons (C10-C36) - TPH	ug/L	<50	<50	<50	<50	<50	<50	140	490	<50	<50	<50	<50	<50	<50
Hydrocarbons (C6-C9) - TPH	ug/L	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
Iron - Dissolved	ug/L	200	220	<50	210	200	1480	1490	1350	1480	1290	<50	<50	<50	<50
Iron - Total	ug/L	940	2150	9100	560	480	2700	2300	2230	2150	2080	910	1400	920	640
Lead - Dissolved	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Lead - Total	ug/L	<1	<1	4	<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<1
Manganese - Dissolved	ug/L	162	184	136	174	161	114	142	137	126	115	45	42	18	30
Manganese - Total	ug/L	193	197	247	172	171	149	146	158	128	123	47	52	42	33
Mercury - Dissolved	ug/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Mercury - Total	ug/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Molybdenum - Dissolved	ug/L	2	2	2	2	2	<1	<1	<1	<1	<1	<1	<1	<1	<1
Molybdenum - Total	ug/L	2	2	2	2	2	2	2	1	1	1	<1	<1	<5	<1
Nickel - Dissolved	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	2	2	<1	1
Nickel - Total	ug/L	1	3	14	<1	<1	5	3	3	3	3	3	4	<5	3
pH	Unit	8.21	8.08	7.89	7.84	7.65	7.97	7.91	7.72	7.71	7.43	7.73	7.6	7.59	7.07
Selenium - Dissolved	ug/L	<10	<10	<10	<4	<4	<10	<10	<10	<4	<4	<10	<10	<10	<4
Selenium - Total	ug/L	<10	<10	<10	<4	<4	<10	<10	<10	<4	<4	<10	<10	<21	<4
Silver - Dissolved	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Silver - Total	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<1
Sodium	mg/L	484	488	523	520	490	3190	2930	3130	3090	3010	3910	3880	3900	4000
Sulphate	mg/L	59	55	58	60	62	1	1	<1	2	1	430	620	594	615
Uranium - Dissolved	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	11	12	5	11
Uranium - Total	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	12	13	9	12
Vanadium - Dissolved	ug/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Vanadium - Total	ug/L	<10	<10	20	<10	<10	<10	<10	<10	<10	<10	<10	<10	<50	<10
Zinc - Dissolved	ug/L	<5	<5	<5	<5	<5	8	5	9	8	7	<5	5	<5	<5
Zinc - Total	ug/L	<5	8	37	9	<5	40	34	38	25	37	13	13	<26	6
Bicarb. Alka. as CaCO3	mg/L	703	678	645	658	638	647	617	588	587	585	956	871	887	884
Calcium	mg/L	11	11	12	11	10	249	198	216	254	242	292	234	249	253
Chloride	mg/L	428	424	412	429	433	6440	5930	6110	6050	6210	7980	8140	7590	7750
Magnesium	mg/L	18	17	16	17	17	192	178	164	172	181	653	665	675	637
Potassium	mg/L	1	2	2	1	1	15	15	16	14	14	3	3	3	3

Table B-2 Lab results

Monitoring location:		2394-MB2	2394-MB2	2394-MB2	2394-MB2	2394-MB2	West-MB1	West-MB1	West-MB1	West-MB1	West-MB1	West-MB2	West-MB2	West-MB2	West-MB2	West-MB2
Date:		15-Jul-2025	03-Sep-2025	04-Nov-2025	10-Feb-2026	11-Jun-2026	15-Jul-2025	03-Sep-2025	04-Nov-2025	10-Feb-2026	11-Jun-2026	15-Jul-2025	03-Sep-2025	04-Nov-2025	10-Feb-2026	11-Jun-2026
Aluminium - Dissolved	ug/L	<50	<50	<10	<50	<50	<10	<10	<10	<10	40	<10	<10	<10	<10	<10
Aluminium - Total	ug/L	1260	560	1510	1150	460	90	440	450	570	440	510	930	510	730	310
Ammonia as N	mg/L															
Arsenic - Dissolved	ug/L	<5	<5	<1	<5	<5	1	1	<1	<1	1	<1	<1	<1	<1	<1
Arsenic - Total	ug/L	<5	<5	<5	<5	<5	1	1	<1	<1	1	<1	<1	<1	<1	<1
Boron - Dissolved	ug/L	300	300	270	270	320	450	420	440	410	400	410	460	410	440	450
Boron - Total	ug/L	370	330	340	200	290	480	450	450	500	400	530	510	520	510	430
Cadmium - Dissolved	ug/L	<0.5	<0.5	<0.1	<0.5	<0.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Cadmium - Total	ug/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chromium - Dissolved	ug/L	<5	<5	<1	<5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chromium - Total	ug/L	<5	<5	<5	<5	<5	<1	<1	<1	1	<1	<1	1	<1	1	<1
Cobalt - Dissolved	ug/L	<5	<5	<1	<5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cobalt - Total	ug/L	<5	<5	<5	<5	<5	<1	<1	<1	1	<1	<1	<1	<1	<1	<1
Copper - Dissolved	ug/L	<5	<5	<1	<5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Copper - Total	ug/L	<5	<5	<5	2	<5	<1	2	2	2	2	<1	2	<1	1	<1
Electrical Conductivity	uS/cm	30200	26100	28400	26900	27200	2800	2700	2770	2780	2670	3690	3520	3470	3600	3260
Fluoride - Total	ug/L	300	200	300	300	300	600	500	600	600	500	500	500	500	500	500
Hydrocarbons (C10-C36) - TPH	ug/L	<50	240	<50	<50	230	<50	<50	<50	<50	<50	1090	<50	<50	<50	<50
Hydrocarbons (C6-C9) - TPH	ug/L	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
Iron - Dissolved	ug/L	4670	3750	4020	3540	3420	120	150	160	120	90	80	100	80	80	80
Iron - Total	ug/L	5670	4100	6280	4600	3770	190	330	310	450	270	310	580	320	400	210
Lead - Dissolved	ug/L	<5	<5	<1	<5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Lead - Total	ug/L	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1	<1	1	<1	1	<1
Manganese - Dissolved	ug/L	1040	814	1010	829	795	18	17	37	41	17	17	19	15	19	24
Manganese - Total	ug/L	1100	896	1090	863	838	20	17	40	53	18	25	23	19	26	30
Mercury - Dissolved	ug/L	<0.5	<0.5	<0.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Mercury - Total	ug/L	<0.5	<0.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Molybdenum - Dissolved	ug/L	<5	<5	1	<5	<5	<1	1	2	1	1	2	2	2	2	2
Molybdenum - Total	ug/L	12	<5	<5	<5	<5	1	1	2	2	2	3	3	3	3	3
Nickel - Dissolved	ug/L	<5	<5	<1	<5	<5	<1	<1	1	1	<1	<1	<1	<1	<1	<1
Nickel - Total	ug/L	6	12	6	<5	<5	1	2	2	4	2	<1	1	<1	1	<1
pH	Unit	7.57	7.11	7.57	7.71	7.12	7.88	7.74	7.77	7.63	7.81	8.18	8.13	8.14	8.05	8.24
Selenium - Dissolved	ug/L	<50	<50	<10	<20	<20	<10	<10	<10	<4	<4	<10	<10	<10	<4	<4
Selenium - Total	ug/L	<50	<50	<21	<21	<21	<10	<10	<10	<4	<4	<10	<10	<10	<4	<4
Silver - Dissolved	ug/L	<5	<5	<1	<5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Silver - Total	ug/L	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Sodium	mg/L	5310	5090	4960	4530	4790	466	497	503	480	495	726	709	691	725	712
Sulphate	mg/L	<1	<1	<1	1	<1	56	63	69	72	68	182	173	183	184	172
Uranium - Dissolved	ug/L	<5	<5	<1	<5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Uranium - Total	ug/L	<5	<5	<5	<5	<5	<1	<1	<1	<1	1	<1	<1	<1	<1	<1
Vanadium - Dissolved	ug/L	<50	<50	<10	<50	<50	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Vanadium - Total	ug/L	<50	<50	<50	<50	<50	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Zinc - Dissolved	ug/L	31	<25	23	<25	35	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Zinc - Total	ug/L	33	47	44	79	43	9	28	15	23	15	6	19	6	10	7
Bicarb. Alka. as CaCO3	mg/L	143	151	128	150	144	960	955	896	896	873	990	968	924	921	869
Calcium	mg/L	675	576	626	531	567	26	25	23	22	27	24	25	24	30	22
Chloride	mg/L	10100	9710	9580	9130	9470	396	470	421	429	424	572	625	590	616	582
Magnesium	mg/L	324	317	283	278	290	66	70	58	54	69	26	27	26	26	27
Potassium	mg/L	15	13	15	12	12	1	<1	<1	2	<1	4	4	4	4	4