Mt Piper Power Station
Monthly Environment Monitoring Data

Prepared by:
Mt Piper Environment Team

Report creation date: 13 February 2026

NR = Not Required, ND = No Data

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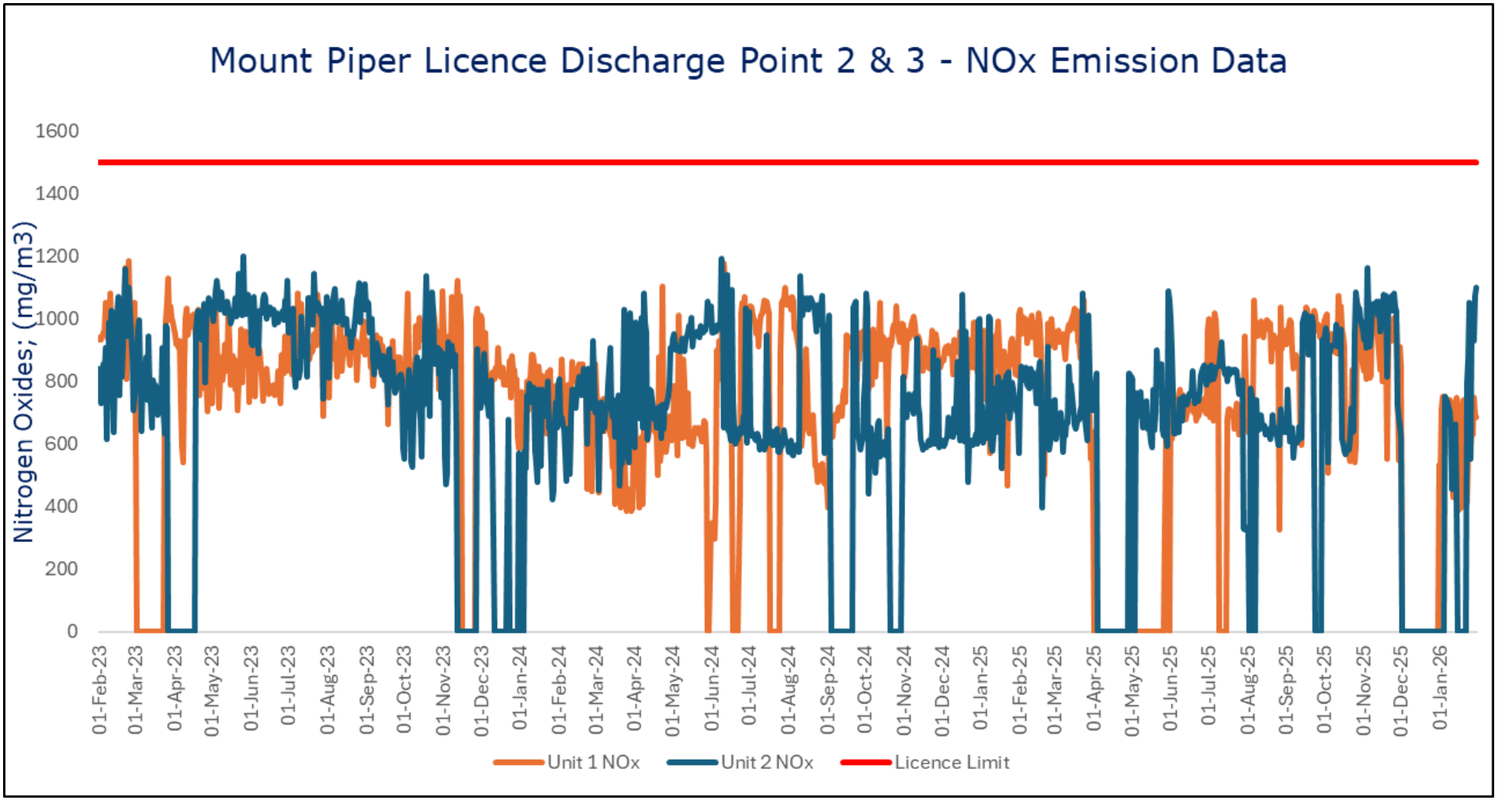
EPL Number:	13007
EPL Holder:	EnergyAustralia NSW
EPL Name of Facility:	MOUNT PIPER POWER STATION
EPL Address of Facility:	350 BOULDER RD PORTLAND, NSW 2847
EPL Website link:	Environment & Heritage | POEO Licences, Application and Notice Detail (nsw.gov.au)
EPL Monitoring Locations:	https://www.energyaustralia.com.au/about-us/energy-generation/mt-piper-power-station/mt-piper-epa-reports
EPL Unit of measure abbreviations:	https://www.energyaustralia.com.au/about-us/energy-generation/mt-piper-power-station/mt-piper-epa-reports
EPL Period monitored:	1 – 31 January 2026
Monthly Summary Status:	Complete: monitoring data obtained.

Table 1: Compliance Summary:

Were all licence monitoring limits met:	YES

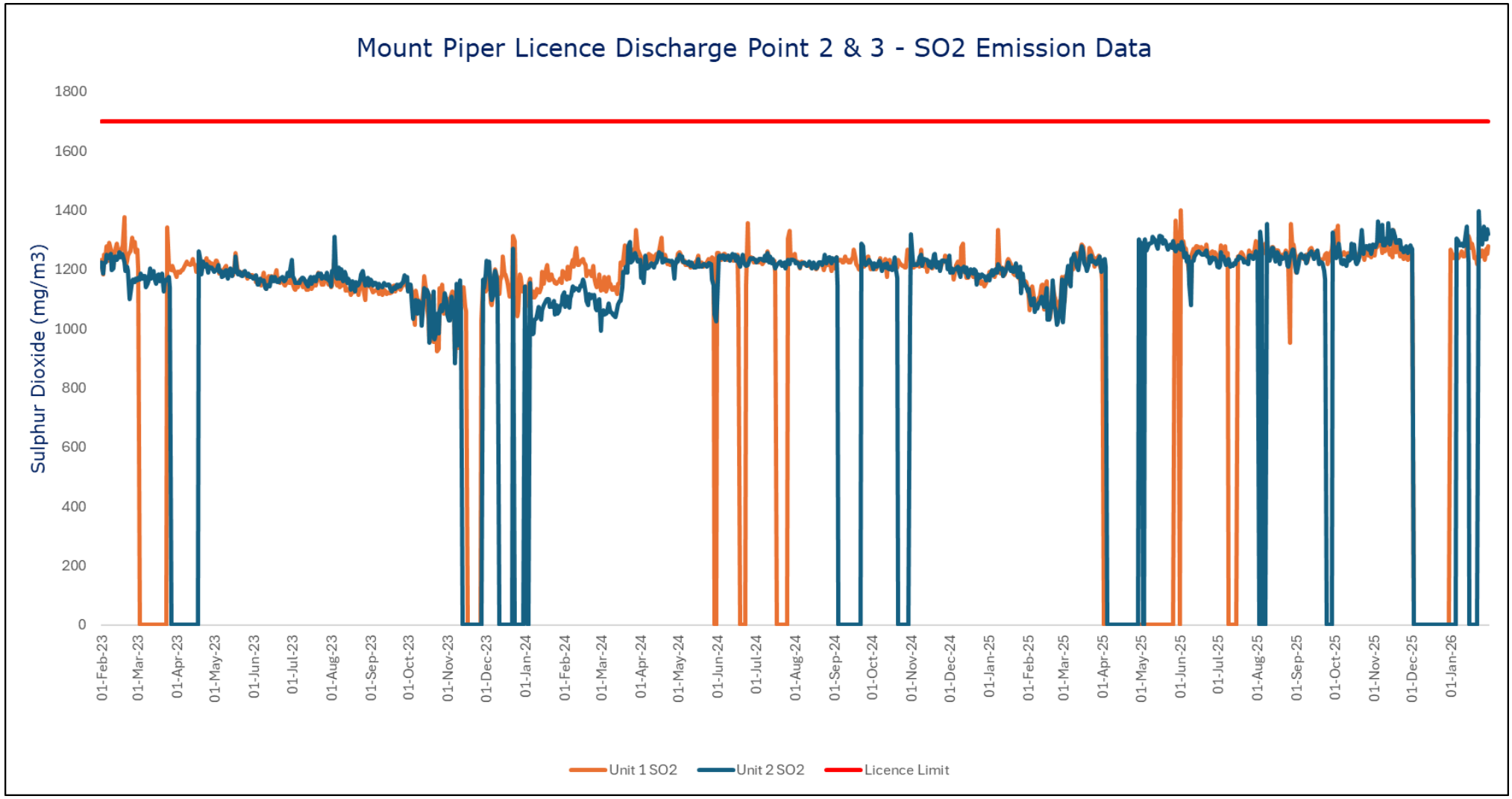
Table 2: Details of any Licence Monitoring Limit not met:

License Point #	Air/Water/Noise	Pollutant	Value measured	Licence limit	Comments
NIL	-	-	-	-	-



Note: Gap in data is due to periods when the unit was shut down, or the monitoring equipment was offline.
Source: Data is obtained from the Continuous Emission Monitoring System.

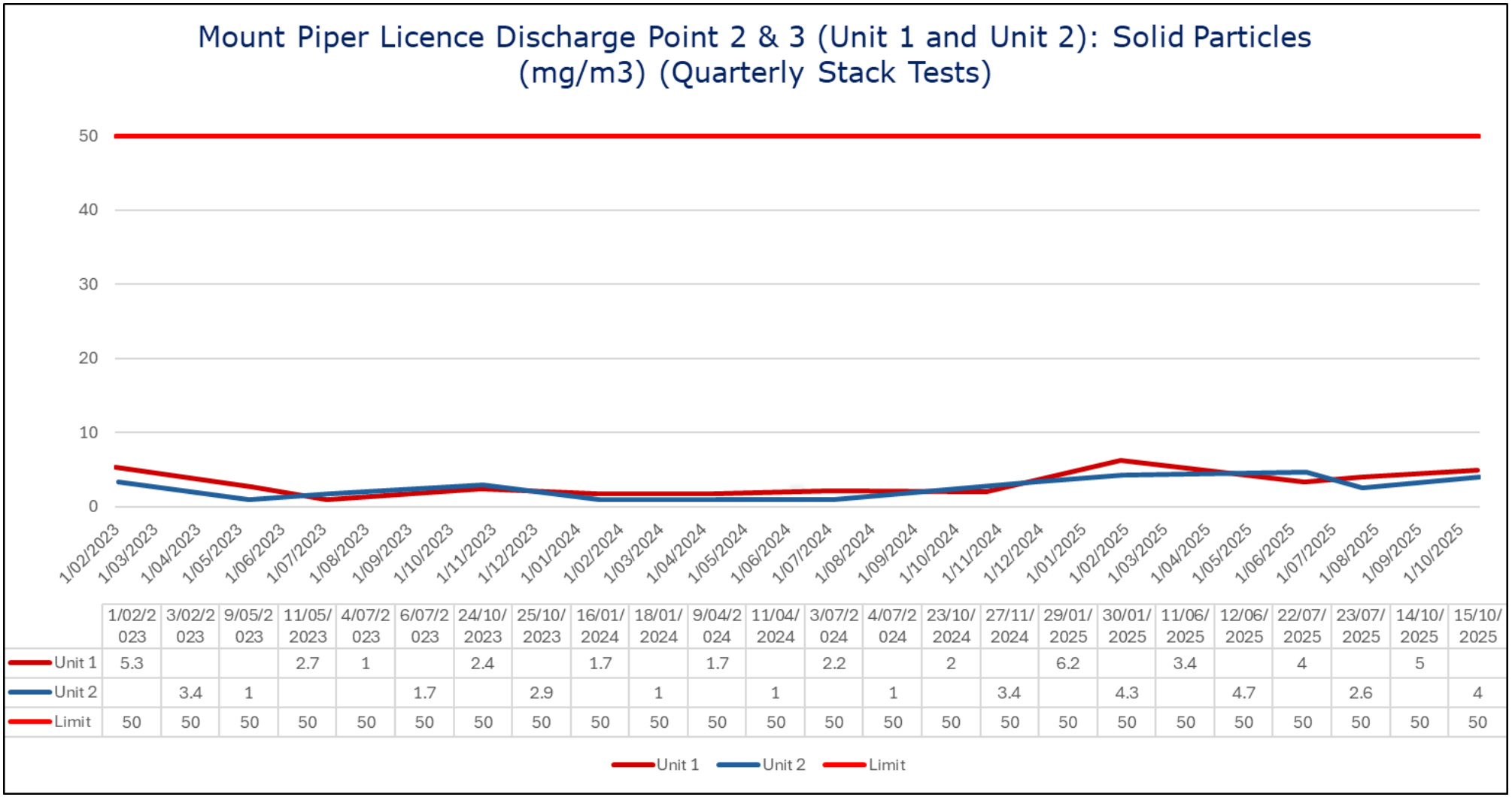
Figure 1: Nitrogen Dioxide (NOx) Emission Data



Note: Gap in data is due to periods when the unit was shut down, or the monitoring equipment was offline.

Source: Data is obtained from the Continuous Emission Monitoring System.

Figure 2: Sulphur Dioxide (SO2) Emission Data



	1/02/2023	3/02/2023	9/05/2023	11/05/2023	4/07/2023	6/07/2023	24/10/2023	25/10/2023	16/01/2024	18/01/2024	9/04/2024	11/04/2024	3/07/2024	4/07/2024	23/10/2024	27/11/2024	29/01/2025	30/01/2025	11/06/2025	12/06/2025	22/07/2025	23/07/2025	14/10/2025	15/10/2025
Unit 1	5.3			2.7	1		2.4		1.7		1.7		2.2		2		6.2		3.4		4		5	
Unit 2		3.4	1			1.7		2.9		1		1		1		3.4		4.3		4.7		2.6		4
Limit	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50

Note: Gap in data is due to periods when the unit was shut down, or the monitoring equipment was offline.

Source: Data is obtained from the Quarterly Stack Testing conducted by Ektimo.

Figure 3: Solid particles Emission Data

Discharge to Water

Table 3: Water Quality at EPL Point 12

2026	Samples required by EPL (1/mth during discharge)	No. of samples during month	Conductivity (µS/cm)		Oil & Grease (mg/L)		pH		Total Suspended Solids (mg/L)		Turbidity (NTU)		Compliant	Comment
			Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit		
January	1	2	343	500	<5	10	7.66	6.5-8.5	9.67	50	2.2	25	Yes	Flow / Discharge recorded week of 7/01/2026
			369		<5		7.46		10.33		9.7		Yes	Flow / Discharge recorded week of 21/01/2026
February														
March														
April														
May														
June														
July														
August														
September														
October														
November														
December														

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Air Emissions

Table 4: Nitrogen Oxides (NOx) Monitoring at EPL Points 2 and 3

2026	No. of samples required by licence	EPL Point	Lowest sample value (mg/m³, hourly average)	Mean of sample (mg/m³)	Highest sample value (mg/m³, hourly average)	Limit (mg/m³, hourly average)	99th percentile			Compliant
							Limit (mg/m³)	87 1-hr averaging periods/yr	1hr averaging periods > limit	
January	Continuous	2	225	418	754	1500	1,100	87	0	Yes
		3	221	498	1100			86	1	Yes
February	Continuous	2				1500	1,100			
		3								
March	Continuous	2				1500	1,100			
		3								
April	Continuous	2				1500	1,100			
		3								
May	Continuous	2				1500	1,100			
		3								
June	Continuous	2				1500	1,100			
		3								
July	Continuous	2				1500	1,100			
		3								
August	Continuous	2				1500	1,100			
		3								
September	Continuous	2				1500	1,100			
		3								
October	Continuous	2				1500	1,100			
		3								
November	Continuous	2				1500	1,100			
		3								
December	Continuous	2				1500	1,100			
		3								

Source: Data is obtained from Continuous Emission Monitoring System

Report creation date: 13 February 2026

NR = Not Required, ND = No Data

Table 5: Sulphur Dioxides (SO2) Monitoring at EPL Points 2 and 3

2026	No. of samples required by licence	EPL Point	Lowest sample value (mg/m^3, hourly average)	Mean of sample (mg/m^3)	Highest sample value (mg/m^3, hourly average)	Limit (mg/m^3, hourly average)	99th percentile			Compliant
							Limit (mg/m^3)	87 1-hr averaging periods/yr	1hr averaging periods > limit	
January	Continuous	2	1034	1213	1313	1700	1,400	87	0	Yes
		3	1104	1270	1396			87	0	Yes
February	Continuous	2				1700	1,400			
		3								
March	Continuous	2				1700	1,400			
		3								
April	Continuous	2				1700	1,400			
		3								
May	Continuous	2				1700	1,400			
		3								
June	Continuous	2				1700	1,400			
		3								
July	Continuous	2				1700	1,400			
		3								
August	Continuous	2				1700	1,400			
		3								
September	Continuous	2				1700	1,400			
		3								
October	Continuous	2				1700	1,400			
		3								
November	Continuous	2				1700	1,400			
		3								
December	Continuous	2				1700	1,400			
		3								

Source: Data is obtained from the Continuous Emission Monitoring System

Table 6: Oxygen (O2), Temperature & Moisture Monitoring at EPL Points 2 and 3

2026	No. of samples required by licence	EPL Point	Oxygen			Temperature			Moisture		
			Lowest sample value (%, hourly average)	Mean of sample (%)	Highest sample value (%, hourly average)	Lowest sample value (°C, hourly average)	Mean of sample (°C)	Highest sample value (°C, hourly average)	Lowest sample value (H_2O, hourly average)	Mean of sample (H_2O)	Highest sample value (H_2O, hourly average)
January	Continuous	2	7.6	9.5	13.6	99	115	131	4.1	6.7	8.9
		3	8.0	10.3	14.4	88	112	133	4.2	6.5	9.4
February	Continuous	2									
		3									
March	Continuous	2									
		3									
April	Continuous	2									
		3									
May	Continuous	2									
		3									
June	Continuous	2									
		3									
July	Continuous	2									
		3									
August	Continuous	2									
		3									
September	Continuous	2									
		3									
October	Continuous	2									
		3									
November	Continuous	2									
		3									
December	Continuous	2									
		3									

Source: Data is obtained from the Continuous Emission Monitoring System

Table 7: Quarterly Stack Emissions Monitoring at EPL Points 2 and 3

2026	No. of samples required by EPL per year	EPL Point	Samples taken (year to date)	Result				Limit	Compliant
				Q1	Q2	Q3	Q4		
Solid Particles (mg/m^3)	4	2	1	TBC				50	Yes
		3	1	TBC					Yes

Table 8: Six Monthly Stack Emissions Monitoring at EPL Points 2 and 3

2026	No. of samples required by EPL per year	EPL Point	Samples taken (year to date)	Result		Limit	Compliant
				Jan - Jun	Jul - Dec		
Carbon Dioxide (%)	2	2	1			-	
		3	1			-	
Cadmium (mg/m^3)	2	2	1	TBC		0.03	Yes
		3	1	TBC			Yes
Mercury (mg/m^3)	2	2	1	TBC		0.03	Yes
		3	1	TBC			Yes
Type 1 and Type 2 substances in aggregate (mg/m^3)	2	2	1	TBC		0.60	Yes
		3	1	TBC			Yes
Hydrogen Chloride (mg/m^3)	2	2	1			50	
		3	1				
Fluorine (mg/m^3)	2	2	1			30	
		3	1				
Chlorine (mg/m^3)	2	2	1			4	
		3	1				
Sulfuric Acid Mist and Sulfur Trioxide as SO^3 (mg/m^3)	2	2	1			100	
		3	1				
Volatile Organic Compounds as n-propane equivalent (mg/m^3)	2	2	1			8	
		3	1				

Mt Piper Power Station

Ambient Monitoring Data

- **Air Quality**
- **Thompsons Creek Reservoir Water Quality**

Table 9: Ambient Air Quality at Blackmans Flat, Wallerawang & Newnes Plateau

2025	No. of samples required by licence	Parameter	Blackmans Flat			Wallerawang			Newnes		
			Min Daily Reading	Monthly Average	Max Daily Reading	Min Daily Reading	Monthly Average	Max Daily Reading	Blank	Newnes1	Newnes2
January	Continuous	SO_2 (pphm)	-0.1	0.1	0.8	0.0	0.0	0.3	<0.9	<0.9	<0.9
		NO_2 (pphm)	0.1	0.2	0.6	0.1	0.2	0.5	<0.6	<0.6	<0.6
		PM2.5 (µg/mg³)	2.1	4.7	8.5	-0.7	4.9	9.4	NR	NR	NR
February	Continuous	SO_2 (pphm)	0.0	0.2	0.3	0.0	0.0	0.2	<0.9	<0.9	<0.9
		NO_2 (pphm)	0.1	0.3	0.6	0.1	0.3	0.6	<0.6	<0.6	<0.6
		PM2.5 (µg/mg³)	2.2	5.1	8.0	0.1	4.6	9.2	NR	NR	NR
March	Continuous	SO_2 (pphm)	-0.1	0.1	0.3	0.0	0.0	0.3	<0.9	<0.9	<0.9
		NO_2 (pphm)	0.0	0.2	0.6	0.1	0.3	0.6	<0.6	<0.6	<0.6
		PM2.5 (µg/mg³)	1.9	4.2	7.9	-1.4	3.2	8.0	NR	NR	NR
April	Continuous	SO_2 (pphm)	0.0	0.1	0.2	0.0	0.0	0.0	<0.9	<0.9	<0.9
		NO_2 (pphm)	0.1	0.4	0.7	0.1	0.4	0.7	<0.6	<0.6	<0.6
		PM2.5 (µg/mg³)	2.4	5.7	26.0	0.0	5.2	25.1	NR	NR	NR
May	Continuous	SO_2 (pphm)	-0.1	0.1	0.3	0.0	0.0	0.1	<0.9	<0.9	<0.9
		NO_2 (pphm)	0.1	0.3	0.6	0.1	0.3	0.7	<0.6	<0.6	<0.6
		PM2.5 (µg/mg³)	1.8	3.7	8.5	-0.8	4.4	15.0	NR	NR	NR
June	Continuous	SO_2 (pphm)	-0.4	0.1	0.5	0.0	0.0	0.1	<0.9	<0.9	<0.9
		NO_2 (pphm)	0.2	0.6	0.9	0.1	0.5	1.0	<0.6	<0.6	<0.6
		PM2.5 (µg/mg³)	0.5	4.1	10.0	-1.4	6.0	17.3	NR	NR	NR
July	Continuous	SO_2 (pphm)	-0.1	0.1	0.2	0.0	0.1	0.2	<0.9	<0.9	<0.9
		NO_2 (pphm)	0.2	0.5	0.9	0.0	0.4	0.9	<0.6	<0.6	<0.6
		PM2.5 (µg/mg³)	1.2	3.5	8.1	-1.1	4.2	11.6	NR	NR	NR
August	Continuous	SO_2 (pphm)	-0.1	0.1	0.4	0.0	0.1	0.3	NS	<0.9	<0.9
		NO_2 (pphm)	0.1	0.3	0.6	0.0	0.3	0.7	<0.6	<0.6	<0.6
		PM2.5 (µg/mg³)	2.1	3.4	6.0	0.4	4.0	11.2	NR	NR	NR
September	Continuous	SO_2 (pphm)	0.0	0.1	0.5	0.1	0.1	0.4	<0.9	<0.9	NS
		NO_2 (pphm)	0.2	0.4	0.6	0.1	0.3	0.8	<0.6	<0.6	NS
		PM2.5 (µg/mg³)	2.3	4.6	7.9	0..0	6.0	12.1	NR	NR	NR
October	Continuous	SO_2 (pphm)	0.0	0.1	0.3	-0.1	0.1	0.3	<0.9	<0.9	<0.9
		NO_2 (pphm)	0.2	0.4	0.7	0.1	0.3	0.6	<0.6	<0.6	<0.6
		PM2.5 (µg/mg³)	2.3	4.7	18.5	-0.4	3.4	7.2	NR	NR	NR
November	Continuous	SO_2 (pphm)	0.0	0.2	0.5	-0.1	0.0	0.3	<0.6	<0.6	<0.6
		NO_2 (pphm)	0.1	0.4	0.6	0.1	0.3	0.7	<0.9	<0.9	<0.9
		PM2.5 (µg/mg³)	2.0	4.3	10.0	-5.0	2.8	8.5	NR	NR	NR
December	Continuous	SO_2 (pphm)	0.0	0.1	0.4	-0.2	0.1	0.5	<0.9	2.6	1.7
		NO_2 (pphm)	0.1	0.3	0.7	0.1	0.3	0.7	<0.6	<0.6	<0.6
		PM2.5 (µg/mg³)	2.4	4.9	19.9	0.8	4.4	9.2	NR	NR	NR

Note: In April PM2.5 at Blackmans Flat & Wallerawang went over 20 µg/m³ guideline. MPPS was offline at the time, the high levels were likely due to local smoke haze.
Source: Data is obtained from the Ambient Air Monthly Report, NS = No Sample due to lab Processing error

NR = Not Required, ND = No Data

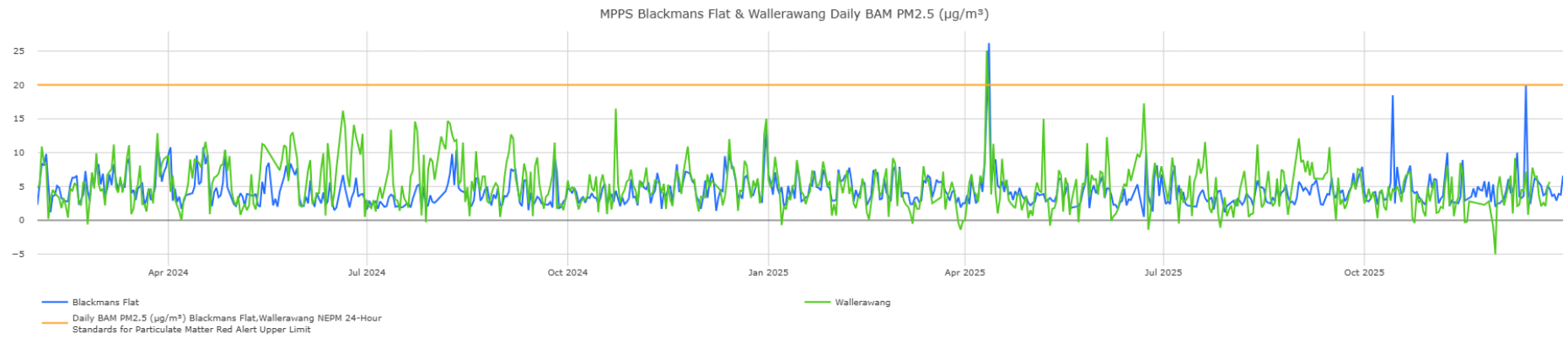


Figure *4: MPPS PM2.5 (µg/m³) Daily Average*

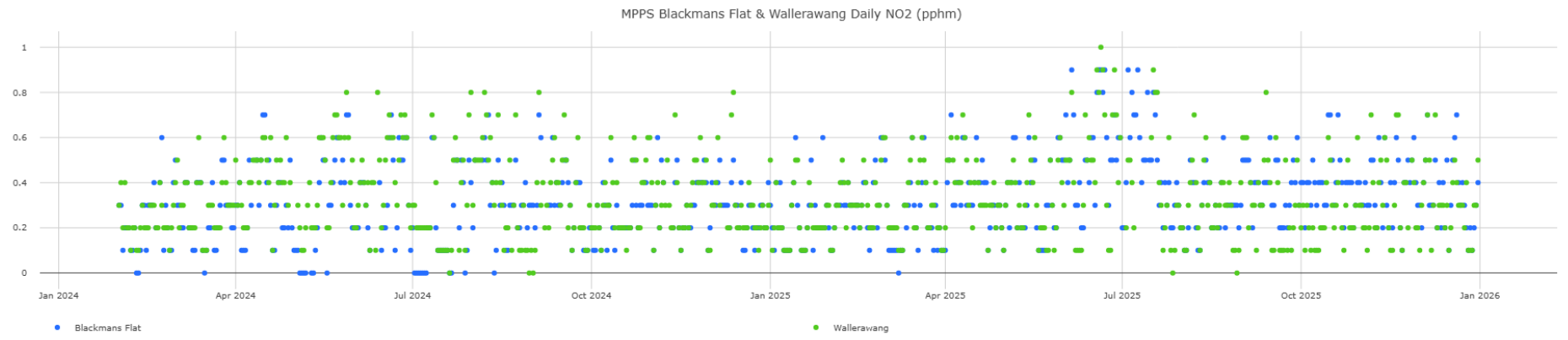


Figure 5: MPPS NO2 pphm Daily Average

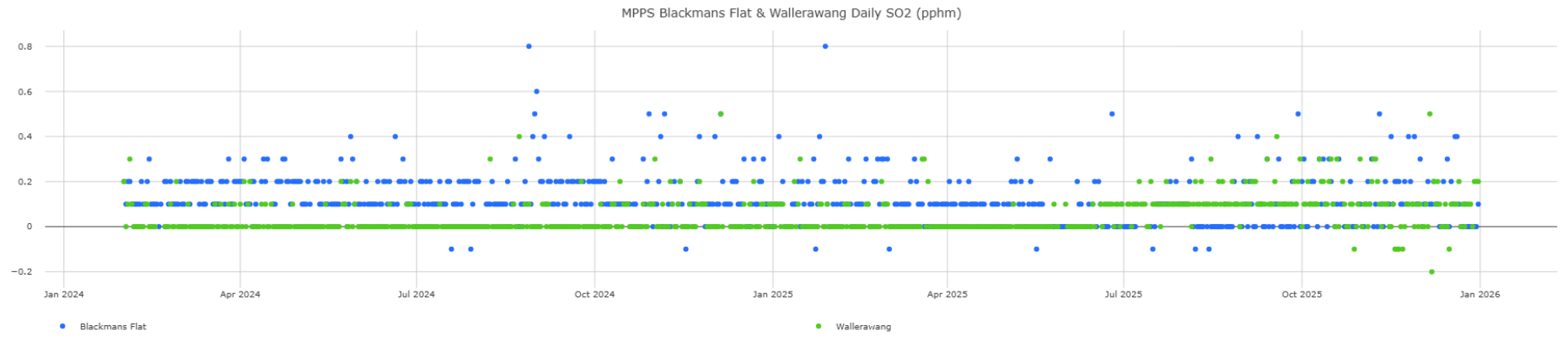


Figure 6: MPPS SO2 pphm Daily Average

Table 10: TCR Water Quality and TCR Riparian Release

2026	Electrical Conductivity (µS/cm)						TCR Riparian Release (ML/month)
	Thompsons Creek Reservoir*			TCR Riparian Release**			
	Lowest Sample Value	Mean Sample Value	Highest Sample Value	Lowest Sample Value	Mean Sample Value	Highest Sample Value	
January	472	477	496	481	487	498	190
February							
March							
April							
May							
June							
July							
August							
September							
October							
November							
December							

*Sampling Frequency: **Thompsons Creek Reservoir: Continuous Monitoring and ** TCR Riparian Release: Weekly Sampling*
***TCR Riparian Release = TCD 100 mm Riparian Release*

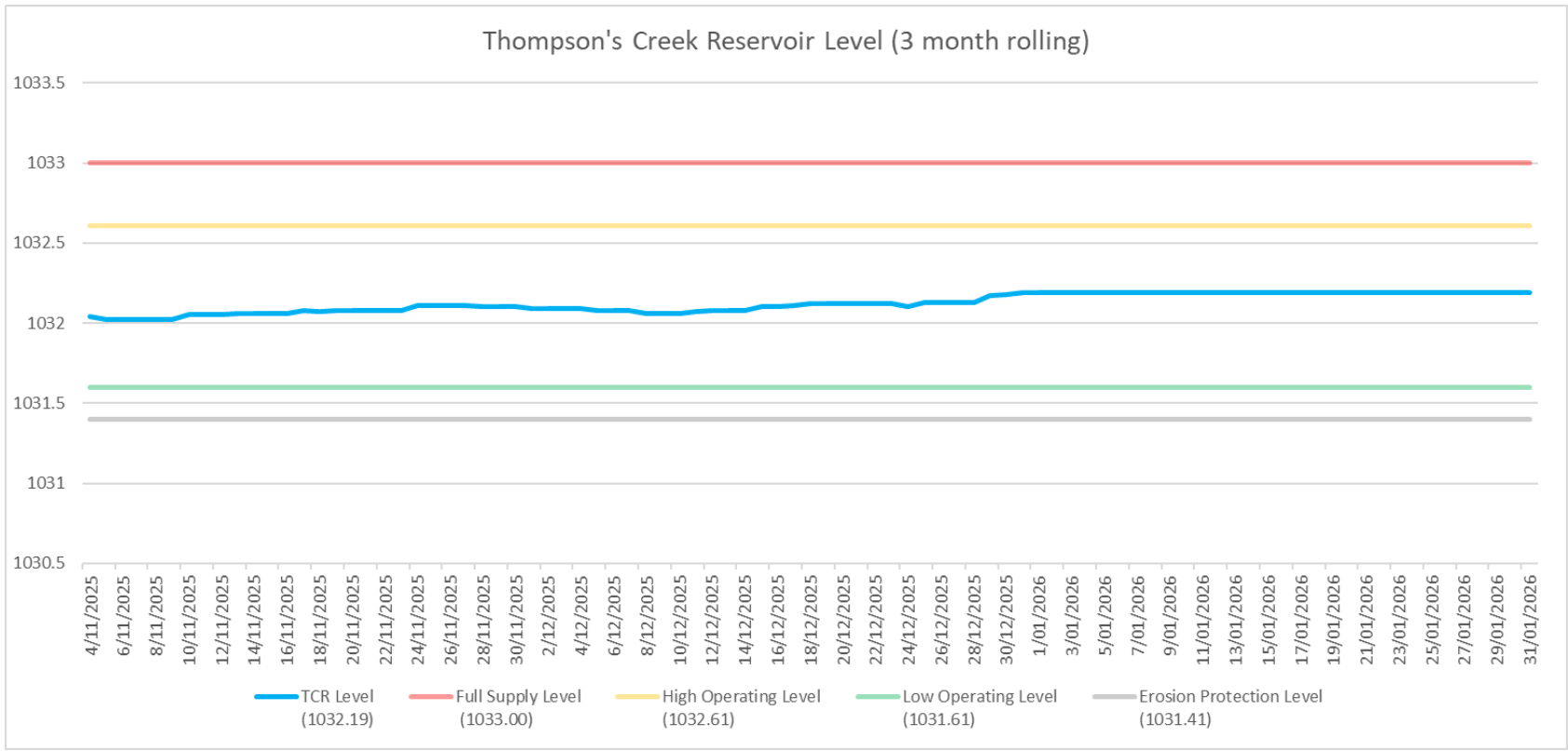


Figure 7: TCR Water Level

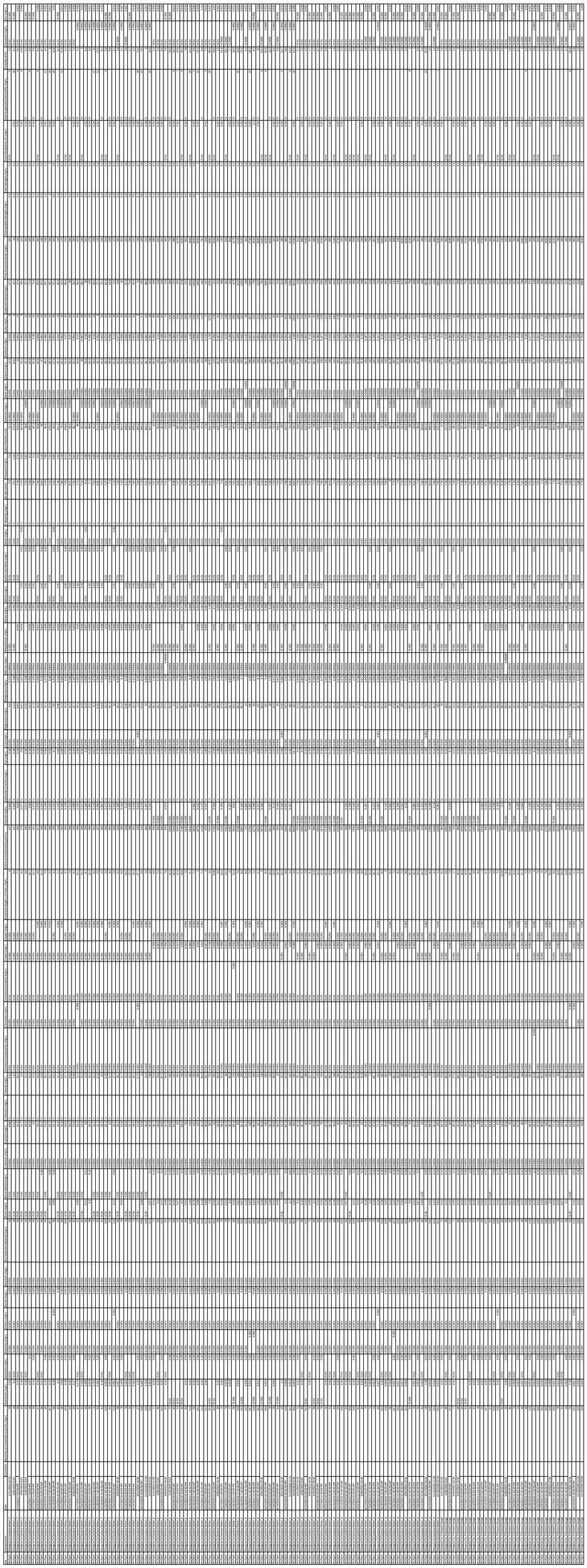
NR = Not Required, ND = No Data

Mt Piper Power Station

Water Monitoring Data

- **Groundwater**
- **Surface Water**

Site	Sample Point	Date	Examined	Alkalinity as Carbonate (CaCO3) (mg/L)	Aluminium (mg/L)	Ammonia (mg/L)	Antimony (mg/L)	Arsenic (mg/L)	Barium (mg/L)	Beryllium (mg/L)	Bicarbonate Alkalinity (mg/L)	Boron (mg/L)	Cadmium (mg/L)	Calcium (mg/L)	Carbonate (mg/L)	Chloride (mg/L)	Chromium (mg/L)	Chromium (hexavalent) (mg/L)	Chromium (trivalent) (mg/L)	Cobalt (mg/L)	Copper (mg/L)	Dissolved Oxygen (mg/L)	Electrical Conductivity (µS/cm)	Fluoride (mg/L)	Iron (mg/L)	Lead (mg/L)	Magnesium (mg/L)	Manganese (mg/L)	Mercury (mg/L)	Molybdenum (mg/L)	Nickel (mg/L)	Nitrate and Nitrite (mg/L)	Nitrite (mg/L)	pH (pH Units)	Potassium (mg/L)	Selenium (mg/L)	Silver (mg/L)	Sodium (mg/L)	Total Base Level (ml)	Sulphate Filtered (mg/L)	Total Dissolved Solids (mg/L)	Uranium (mg/L)	Vanadium (mg/L)	Zinc (mg/L)	Beta Volume Pumped (L)	P Alkalinity (mg/L)	Strontium (mg/L)	Carbonate (CaCO3) (mg/L)	Redox Potential (mV)
Mt Piper	Groundwater Bore MPGW14_0110	3/01/2022 11:00		134	0.1	0.26	<0.001	0.001	0.023	<0.001	134	2.82	0.00012	220	<5	516	<0.001	<0.01	0.260	<0.001	0.001	2	7120	0.362	0.84	0.007	220	7.31	<0.0004	0.001	0.004	0.01	<0.01	5.85	125	0.0005	<0.001	1120	10	3410	1130	5950	<0.01	0.747	1690	0.642	0	134	70.2
Mt Piper	Groundwater Bore MPGW14_0210	8/02/2022 10:00:00 AM		140	0.064	0.42	<0.001	0.001	0.022	<0.001	140	3.03	0.00009	260	<5	614	<0.001	<0.01	0.210	0.011	0.001	2	8250	0.322	0.8	0.005	270	8.56	<0.0004	0.001	0.003	0.01	<0.01	6.03	132	0.0004	<0.001	1300	14.6	3890	1310	6850	<0.01	0.849	1980	0.742	0	140	43.2
Mt Piper	Groundwater Bore MPGW14_0310	31/03/2022 9:00:00 AM		163	0.13	0.43	<0.001	0.001	0.019	<0.001	163	3.44	0.00013	340	<5	882	0.001	<0.01	0.274	0.001	0.001	3	11550	0.38	1.45	0.011	380	11.4	<0.0004	0.001	0.011	0.01	<0.01	5.85	0.01	0.0006	<0.001	2090	15	5910	1940	10400	<0.01	0.678	2670	0.94	0	163	133
Mt Piper	Groundwater Bore MPGW14_0410	21/04/2022 11:10:00 AM		133	0.1	0.43	<0.001	0.001	0.017	<0.001	133	3.32	0.00014	340	<5	1010	<0.001	<0.01	0.313	0.001	0.001	3	12060	0.39	1.4	0.009	380	12.1	<0.0004	0.001	0.007	0.01	<0.01	5.83	0.01	0.0005	<0.001	2180	14.2	6290	1940	7550	<0.01	0.589	2670	0.971	0	133	76.2
Mt Piper	Groundwater Bore MPGW14_0510	7/06/2022 10:00:00 AM		144	0.079	0.42	<0.001	0.001	0.018	<0.001	144	3.83	0.00008	350	<5	926	<0.001	<0.01	0.35	0.001	0.001	3	9030	0.38	0.83	0.001	310	8.96	<0.0004	0.001	0.002	0.01	<0.01	5.76	180	0.0013	<0.001	1720	14.7	4350	1450	8010	0.0004	0.69	2160	0.768	0	144	134
Mt Piper	Groundwater Bore MPGW14_0610	9/12/2022 11:00		146	0.061	0.43	<0.001	0.001	0.017	<0.001	146	2.85	0.001	260	<5	954	<0.001	<0.01	0.203	0.007	0.001	2	9562	0.364	0.79	0.011	300	7.58	<0.0004	0.001	0.003	0.01	<0.01	5.87	146	0.0012	<0.001	1640	14.8	4490	1560	7850	0.0004	0.743	2350	0.811	0	146	85.2
Mt Piper	Groundwater Bore MPGW14_0710	11/01/2023 10:30:00 AM		157	0.07	0.41	<0.001	0.001	0.018	<0.001	157	4.46	0.00017	398	<5	973	0.001	0.001	0.278	0.002	0.001	3	11400	0.35	0.75	0.026	320	8.68	<0.0004	0.001	0.008	0.01	<0.01	5.94	191	0.0019	<0.001	1790	15.4	4970	1904	8960	0.0005	0.898	2870	0.947	0	157	68.4
Mt Piper	Groundwater Bore MPGW14_0810	6/08/2023 9:10:00 AM		146	0.713	30.1	0.002	0.007	0.015	<0.001	146	1.73	0.0003	1450	<5	1240	0.001	0.001	0.063	0.001	0.001	2.2	5210	0.318	0.84	0.004	140	3.28	<0.0004	0.001	0.001	0.01	<0.01	6.49	1.9	0.0028	0.0003	790	15.8	2370	720	4550	0.0015	0.203	1150	0.412	0	146	141.2
Mt Piper	Groundwater Bore MPGW14_0910	5/08/2023 11:50:00 AM		154	0.342	4.73	<0.001	0.005	0.023	<0.001	154	3.04	0.00013	2150	<5	1470	0.001	0.001	0.004	<0.001	0.001	2.2	6210	0.312	2.2	0.002	210	5.08	<0.0004	0.001	0.037	0.01	<0.01	6.04	140	0.0032	<0.001	1350	15.6	3110	1170	5870	0.0017	0.51	1640	0.488	0	154	68.4
Mt Piper	Groundwater Bore MPGW14_1010	11/10/2023 10:55:00 AM		174	0.113	0.82	0.001	0.005	0.025	<0.001	174	3.55	0.0001	1060	<5	1370	0.001	<0.01	0.096	0.003	0.001	2.6	6770	0.407	0.9	0.009	170	6.25	<0.0004	0.001	0.015	0.01	0.23	6.22	0.01	0.0008	<0.001	1590	15.4	3280	1070	6810	0.0013	0.55	1980	0.583	0	174	98.4
Mt Piper	Groundwater Bore MPGW14_1110	11/06/2023 10:05:00 AM		139	0.077	1.04	<0.001	0.005	0.019	<0.001	139	2.39	0.0008	2360	<5	448	<0.001	<0.01	0.203	0.002	0.001	3.3	7025	0.563	1.1	0.01	227	6.76	<0.0004	0.001	0.794	0.01	0.22	5.83	1.45	0.0004	<0.001	1250	15.1	3234	1410	6010	0.0008	0.55	1510	0.775	0	139	148.2
Mt Piper	Groundwater Bore MPGW14_03	2/01/2023 9:30		126	0.01	0.34	<0.001	0.001	0.085	<0.001	126	1.36	0.00011	1060	<5	1170	<0.001	<0.01	0.013	<0.001	0.001	1.8	5010	0.319	0.63	<0.001	400	14.5	<0.0004	<0.001	0.001	0.01	<0.01	6.23	0.02	<0.0002	<0.001	1870	14.4	5170	1870	9020	0.0004	0.373	2310	0.629	0	126	25.2
Mt Piper	Groundwater Bore MPGW14_03	9/02/2023 9:10:00 AM		126	<0.01	0.13	<0.001	0.001	0.039	<0.001	126	0.85	0.0001	76.2	<5	46.2	<0.001	<0.01	0.007	<0.001	0.001	0.7	870	0.168	0.03	<0.001	59.6	0.59	0.0003	<0.001	0.001	0.01	0.02	6.11	6.81	<0.0002	<0.001	39.1	6.7	232	86	556	<0.01	0.007	248	0.383	0	126	37.2
Mt Piper	Groundwater Bore MPGW14_03	6/03/2023 10:00 AM		94	0.02	0.21	<0.001	0.002	0.021	0.001	94	0.53	0.0001	49.2	0.0054	36.3	<0.001	<0.01	0.006	0.002	0.001	0.5	615	0.106	0.02	<0.001	42.6	0.45	0.0003	<0.001	0.001	0.01	0.02	6.02	4.85	<0.0002	<0.001	28.1	5.4	164	61	394	<0.01	0.005	175	0.271	0	94	37.8
Mt Piper	Groundwater Bore MPGW14_03	4/04/2023 10:00 AM		126	0.01	0.34	<0.001	0.001	0.085	<0.001	126	1.36	0.00011	1060	<5	1170	<0.001	<0.01	0.013	<0.001	0.001	1.8	5010	0.319	0.63	<0.001	400	14.5	<0.0004	<0.001	0.001	0.01	<0.01	6.23	0.02	<0.0002	<0.001	1870	14.4	5170	1870	9020	0.0004	0.373	2310	0.629	0	126	25.2
Mt Piper	Groundwater Bore MPGW14_03	2/01/2024 7:30		126	0.01	0.34	<0.001	0.001	0.085	<0.001	126	1.36	0.00011	1060	<5	1170	<0.001	<0.01	0.013	<0.001	0.001	1.8	5010	0.319	0.63	<0.001	400	14.5	<0.0004	<0.001	0.001	0.01	<0.01	6.23	0.02	<0.0002	<0.001	1870	14.4	5170	1870	9020	0.0004	0.373	2310	0.629	0	126	25.2
Mt Piper	Groundwater Bore MPGW14_03	8/03/2023 7:00 AM		94	0.02	0.21	<0.001	0.002	0.021	0.001	94	0.53	0.0001	49.2	0.0054	36.3	<0.001	<0.01	0.006	0.002	0.001	0.5	615	0.106	0.02	<0.001	42.6	0.45	0.0003	<0.001	0.001	0.01	0.02	6.02	4.85	<0.0002	<0.001	28.1	5.4	164	61	394	<0.01	0.005	175	0.271	0	94	37.8
Mt Piper	Groundwater Bore MPGW14_0110	3/10/2023 10:05		163	0.011	0.01	<0.001	<0.001	0.199	<0.001	163	0.39	0.00009	89.1	<5	186	<0.001	<0.01	<0.001	0.002	0.001	0.5	1211	0.139	0.27	<0.001	52.7	0.195	<0.0004	<0.001	0.001	0.01	0.08	0.28	7.81	0.0007	<0.001	36.2	7.3	742	0.0002	0.0002	0.482	178.2
Mt Piper	Groundwater Bore MPGW14_0210	8/02/2024 10:00:00 AM		163	0.011	0.01	<0.001	<0.001	0.199	<0.001	163	0.39	0.00009	89.1	<5	186	<0.001	<0.01	<0.001	0.002	0.001	0.5	1211	0.139	0.27	<0.001	52.7	0.195	<0.0004	<0.001	0.001	0.01	0.08	0.28	7.81	0.0007	<0.001	36.2	7.3	742	0.0002	0.0002	0.482	178.2
Mt Piper	Groundwater Bore MPGW14_03	9/12/2023 2:00:00 PM		30	0.123	0.01	0.001	0.002	0.058	0.001	30	0.16	0.001	10.2	<5	29.3	<0.001	<0.01	0.01	<0.001	0.001	0.5	258	0.032	0.35	0.001	8.03	0.046	<0.0004	<0.001	0.001	0.01	<0.01	6.76	0.06	<0.0002	<0.001	25.4	6.4	48.1	16	168	<0.0002	0.019	232	0.072	0	30	155.1
Mt Piper	Groundwater Bore MPGW14_03	11/07/2023 9:55:00 AM		126	0.057	0.06	<0.001	0.001	0.085	<0.001	126	0.58	0.0001	76.5	<5	87.7	<0.001	<0.01	0.061	0.001	0.001	2.4	954	0.095	0.57	<0.001	44.4	1.06	<0.0004	<0.001	0.001	0.01	0.011	6.09	0.03	<0.0002	<0.001	42.3	7.4	265	155	548	<0.0002	0.037	360	0.167	0	126	214.2
Mt Piper	Groundwater Bore MPGW14_0310	1/11/2023 11:15		154	0.04	0.13	<0.001	<0.001	0.024	<0.001	154	1.36	0.0001	522	<5	1030	<0.001	<0.01	0.035	<0.001	<0.01	1.3	8610	0.185	0.49	<0.001	470	14.3	<0.0004	<0.001	0.001	0.01	<0.01	6.11	0.01	0.01	<0.001	1550	13.8	3220	1580	8200	<0.01	0.059	1960	0.373	0	154	111.6
Mt Piper	Groundwater Bore MPGW14_0410	5/11/2023 10:35		76	0.03	0.34	<0.001	0.001	0.085	<0.001	76	1.36	0.0001	522	<5	1030	<0.001	<0.01	0.013	<0.001	0.001	1.8	8550	0.185	0.63	<0.001	470	14.3	<0.0004	<0.001	0.001	0.01	<0.01	6.08	0.01	0.01	<0.001	1550	13.8	3220	1580	8200	<0.01	0.059	1960	0.373	0	76	111.6
Mt Piper	Groundwater Bore MPGW14_0510	8/03/2023 7:00		110	0.11	0.13	<0.001	0.001	0.025	<0.001	110	1.36	0.0001	548	<5	1020	<0.001	<0.01	0.244	<0.001	<0.01	1.3	8750	0.19	0.84	<0.001	480	14.4	<0.0004	<0.001	0.001	0.01	<0.01	6.08	0.01	0.01	<0.001	1630	13.8	3810	1650	7880	<0.01	0.098	2060	0.374	0	110	111.6
Mt Piper	Groundwater Bore MPGW14_0610	10/06/2023 7:50:00 AM		94	0.04	0.13	<0.001	0.001	0.024	<0.001	94	1.36	0.0001	548	<5	1020	<0.001	<0.01	0.244	0.002	<0.01	1.3	8530	0.19	0.84	<0.001	480	14.4	<0.0004	<0.001	0.001	0.01	<0.01	6.08	0.01	0.01	<0.001	1630	13.8	3810	1650	7880	<0.01	0.098	2060	0.374	0	94	111.6
Mt Piper	Groundwater Bore MPGW14_0710	2/01/2024 7:30		92	0.09	0.28	<0.001	0.001	0.024	<0.001	92	1.14	0.0001	521	<5	1180	<0.001	<0.01	0.212	0.001	0.001	2.1	8150	0.204	0.8	<0.001	470	14.7	<0.0004	<0.001	0.001	0.01	<0.01	6.1	0.01	0.01	<0.001	1540	13.8	4310	1640	7840	<0.01	0.045	1960	0.348	0	92	113.4
Mt Piper	Groundwater Bore MPGW14_0810	6/08/2023 9:10:00 AM		146	0.713	30.1	0.002	0.007	0.015	<0.001	146	1.73	0.0003	1450	<5	1240	0.001	0.001	0.063	0.001	0.001	2.2	5210	0.318	0.84	0.004	140	3.28	<0.0004	0.001	0.001	0.01	<0.01	6.49	1.9	0.0028	0.0003	790	15.8	2370	720	4550	0.0015	0.203	1150	0.412	0	146	141.2
Mt Piper	Groundwater Bore MPGW14_0910	5/08/2023 11:50:00 AM		154	0.342	4.73	<0.001	0.005	0.023	<0.001	154	3.04	0.00013	2150	<5	1470	0.001	0.001	0.004	<0.001	0.001	2.2	6210	0.312	2.2	0.002	210	5.08	<0.0004	0.001	0.037	0.01	<0.01	6.04	140	0.0032	<0.001	1350	15.6	3110	1170	5870	0.0017	0.51	1640	0.488	0	154	68.4
Mt Piper	Groundwater Bore MPGW14_1010	11/10/2023 10:55:00 AM		174	0.113	0.82	0.001	0.005	0.025	<0.001	174	3.55	0.0001	1060	<5	1370	0.001	<0.01	0.096	0.003	0.001	2.6	6770	0.407	0.9	0.009	170	6.25	<0.0004	0.001	0.015	0.01	0.23	6.22	0.01	0.0008	<0.001	1590	15.4	3280	1070	6810	0.0013	0.55	1980	0.583	0	174	98.4
Mt Piper	Groundwater Bore MPGW14_1110	11/06/2023 10:05:00 AM		139	0.077	1.04	<0.001	0.005	0.019	<0.001	139	2.39	0.0008	2360	<5	448	<0.001	<0.01	0.203	0.002	0.001	3.3	7025	0.563	1.1	0.01	227	6.76	<0.0004	0.001	0.794	0.01	0.22	5.83	1.45	0.0004	<0.001	1250	15.1	3234	1410	6010	0.0008	0.55	1510	0.775	0	139	148.2
Mt Piper	Groundwater Bore MPGW14_03	2/01/2023 9:30		126	0.01	0.34	<0.001	0.001	0.085	<0.001	126	1.36	0.00011	1060	<5	1170	<0.001	<0.01	0.013	<0.001	0.001	1.8	5010	0.319	0.63	<0.001	400	14.5	<0.0004	<0.001	0.001	0.01	<0.01	6.23	0.02	<0.0002	<0.001	1870	14.4	5170	1870	9020	0.0004	0.373	2310	0.629	0	126	25.2
Mt Piper	Groundwater Bore MPGW14_03	9/02/2023 9:10:00 AM		126	<0.01	0.13	<0.001	0.001	0.039	<0.001	126	0.85	0.0001	76.2	<5	46.2	<0.001	<0.01	0.007	<0.001	0.001	0.7	870	0.168	0.03	<0.001	59.6	0.59	0.0003	<0.001	0.001	0.01	0.02	6.11	6.81	<0.0002	<0.001	39.1	6.7	232	86	556	<0.01	0.007	248	0.383	0	126	37.2
Mt Piper	Groundwater Bore MPGW14_03	6/03/2023 10:00 AM		94	0.02	0.21	<0.001	0.002	0.021	0.001	94	0.53	0.0001	49.2	0.0054	36.3	<0.001	<0.01	0.006	0.002	0.001	0.5	615	0.106	0.02	<0.001	42.6	0.45	0.0003	<0.001	0.001	0.01	0.02	6.02	4.85	<0.0002	<0.001	28.1	5.4	164	61	394	<0.01	0.005	175	0.271	0	94	37.8
Mt Piper	Groundwater Bore MPGW14_0110	3/10/2023 10:05		163	0.011	0.01	<0.001	<0.001	0.199	<0.001	163	0.39	0.00009	89.1	<5	186	<0.001	<0.01	<0.001	0.002	0.001	0.5	1211	0.139	0.27	<0.001	52.7	0.195	<0.0004	<0.001	0.001	0.01	0.08	0.28	7.81	0.0007	<0.001	36.2	7.3	742	0.0002	0.0002	0.482	178.2
Mt Piper	Groundwater Bore MPGW14_0210	8/02/2024 10:00:00 AM		163	0.011	0.01	<0.001	<0.001	0.199	<0.001	163	0.39	0.00009	89.1	<5	186	<0.001	<0.01	<0.001	0.002	0.001	0.5	1211	0.139	0.27	<0.001	52.7	0.195	<0.0004	<0.001	0.001	0.01	0.08	0.28	7.81	0.0007	<0.001	36.2	7.3	742	0.0002	0.0002	0.482	178.2
Mt Piper	Groundwater Bore MPGW14_0310	1/11/2023 11:15		154	0.04	0.13	<0.001	<0.001	0.024	<0.001	154	1.36	0.0001	522	<5	1030	<0.001	<0.01	0.035	<0.001	<0.01	1.3	8610	0.185	0.49	<0.001	470	14.3	<0.0004	<0.001	0.001	0.01	<0.01	6.11	0.01	0.01	<0.001	1550	13.8	3220	1580	8200	<0.01	0.059	1960	0.373	0	154	111.6
Mt Piper	Groundwater Bore MPGW14_0410	5/11/2023 10:35		76	0.03	0.34	<0.001	0.001	0.085	<0.001	76	1.36	0.0001	522	<5	1030	<0.001	<0.01	0.013	<0.001	0.001	1.8	8550	0.185	0.63	<0.001	470	14.3	<0.0004	<0.001	0.001	0.01	<0.01	6.08	0.01	0.01	<0.001	1550	13.8	3220	1580	8200	<0.01	0.059	1960	0.373	0	76	111.6
Mt Piper	Groundwater Bore MPGW14_0510	8/03/2023 7:00		110	0.11	0.13	<0.001	0.001	0.025	<0.001	110	1.36	0.0001	548	<5	1020	<0.001	<0.01	0.244	<0.001	<0.01	1.3	8750	0.19	0.84	<0.001	480	14.4	<0.0004	<0.001	0.001	0.01	<0.01	6.08	0.01	0.01	<0.001	1630	13.8	3810	1650	7880	<0.01	0.098	2060	0.374	0	110	111.6
Mt Piper	Groundwater Bore MPGW14_0610	10/06/2023 7:50:00 AM		94	0.04	0.13	<0.001	0.001	0.024	<0.001	94	1.36	0.0001	548	<5	1020	<0.001	<0.01	0.244	0.002	<0.01	1.3	8530	0.19	0.84	<0.001	480	14.4	<0.0004	<0.001	0.001	0.01	<0.01	6.08	0.01	0.01	<0.001	1630	13.8	3810	1650	7880	<0.01	0.098	2060	0.374	0	94	111.6
Mt Piper	Groundwater Bore MPGW14_0710	2/01/2024 7:30		92	0.09	0.28	<0.001	0.001	0.024	<0.001	92	1.14	0.0001	521	<5	1180	<0.001	<0.01	0.212	0.001	0.001	2.1	8150	0.204	0.8	<0.001	470	14.7	<0.0004	<0.001	0.001	0.01	<0.01	6.1	0.01	0.01	<0.001	1540	13.8	4310	1640	7840	<0.01	0.045	1960	0.348	0	92	113.4
Mt Piper	Groundwater Bore MPGW14_0810	6/08/2023 9:10:00 AM		146	0.713	30.1	0.002	0.007	0.015	<0.001	146	1.73	0.0003	1450	<5	1240	0.001	0.001	0.063	0.001	0.001	2.2	5210	0.318	0.84	0.004	140	3.28	<0.0004	0.001	0.001	0.01	<0.01	6.49	1.9	0.0028	0.0003	790	15.8	2370	720	4550	0.0015	0.203	1150	0.412	0	146	141.2
Mt Piper	Groundwater Bore MPGW14_0910	5/08/2023 11:50:00 AM		154	0.342	4.73	<0.001	0.005	0.023	<0.001	154	3.04	0.00013	2150	<5	1470	0.001	0.001	0.004	<0.001	0.001	2.2	6210	0.312	2.2	0.002	210	5.08	<0.0004	0.001	0.037	0.01	<0.01	6.04	140	0.0032	<0.001	1350	15.6	3110	1170	5870	0.0017	0.51	1640	0.488	0	154	68.4
Mt Piper	Groundwater Bore MPGW14_1010	11/10/2023 10:55:00 AM		174	0.113	0.82	0.001	0.005	0.025	<0.001	174	3.55	0.0001	1060	<5	1370	0.001	<0.01	0.096	0.003	0.001	2.6	6770	0.407	0.9	0.009	170	6.25	<0.0004	0.001	0.015	0.01	0.23	6.22	0.01	0.0008	<0.001	1590	15.4	3280	1070	6810	0.0013	0.55	1980	0.583	0	174	98.4
Mt Piper	Groundwater Bore MPGW14_1110	11/06/2023 10:05:00 AM		139	0.077	1.04	<0.001	0.005	0.019	<0.001	139	2.39	0.0008	2360	<5	448	<0.001	<0.01	0.203	0.002	0.001	3.3	7025	0.563	1.1	0.01	227	6.76	<0.0004	0.001	0.794	0.01	0.22	5.83	1.45	0.0004	<0.001	1250	15.1	3234	1410	6010	0.0008	0.55	1510	0.775	0	139	148.2
Mt Piper	Groundwater Bore MPGW14_03	2/01/2023 9:30		126	0.01	0.34	<0.001	0.001	0.085	<0.001	126	1.36	0.00011	1060	<5	1170	<0.001	<0.01	0.013	<0.001	0.001	1.8	5010	0.319	0.63	<0.001	400	14.5	<0.0004	<0.001	0.001	0.01	<0.01	6.23	0.02	<0.0002	<0.001	1870	14.4	5170	1870	9020	0.0004	0.373	2310	0.629	0	126	25.2
Mt Piper	Groundwater Bore MPGW14_03	9/02/2023 9:10:00 AM		126	<0.01	0.13	<0.001	0.001	0.039	<0.001	126	0.85	0.0001	76.2	<5	46.2	<0.001	<0.01	0.007	<0.001	0.001	0.7	870	0.168	0.03	<0.001	59.6	0.59	0.0003	<0.001	0.001	0.01	0.02	6.11	6.81	<0.0002	<0.001	39.1	6.7	232	86	556	<0.01	0.007	248	0.383	0	126	37.2
Mt Piper	Groundwater Bore MPGW14_03	6/03/2023 10:00 AM		94	0.02	0.21	<0.001	0.002	0.021	0.001	94	0.53	0.0001	49.2	0.0054	36.3	<0.001	<0.01	0.006	0.002	0.001	0.5	615	0.106	0.02	<0.001	42.6	0.45	0.0003	<0.001	0.001	0.01	0.02	6.02	4.85	<0.0002	<0.001	28.1	5.4	164	61	394	<0.01	0.005	175	0.271	0	94	37.8
Mt Piper	Groundwater Bore MPGW14_0110	3/10/2023 10:05		163	0.011	0.01	<0.001	<0.001	0.199	<0.001	163	0.39	0.00009	89.1	<5	186	<0.001	<0.01	<0.001	0.002	0.001	0.5	1211	0.139	0.27	<0.001	52.7	0.195	<0.0004	<0.001	0.001	0.01	0.08	0.28	7.81	0.0007	<0.001	36.2	7.3	742	0.0002	0.0002	0.482	178.2
Mt Piper	Groundwater Bore MPGW14_0210	8/02/2024 10:00:00 AM		163	0.011	0.01	<0.001	<0.001	0.199	<0.001	163	0.39	0.00009	89.1	<5	186	<0.001	<0.01	<0.001	0.002	0.001	0.5	1211	0.139	0.27	<0.001	52.7	0.195	<0.0004	<0.001	0.001	0.01	0.08	0.28	7.81	0.0007	<0.001	36.2	7.3	742	0.0002	0.0002	0.482	178.2
Mt Piper	Groundwater Bore MPGW14_0310	1/11/2023 11:15		154	0.04	0.13	<0.001	<0.001	0.024	<0.001	154	1.36	0.0001	522	<5	1030	<0.001	<0.01	0.035	<0.001	<0.01	1.3	8610	0.185	0.49	<0.001	470	14.3	<0.0004	<0.001	0.001	0.01	<0.01	6.11	0.01	0.01	<0.001	1550	13.8	3220	1580	8200	<0.01	0.059	1960	0.373	0	154	111.6
Mt Piper	Groundwater Bore MPGW14_0410	5/11/2023 10:35		76	0.03	0.34	<0.001	0.001	0.085	<0.001	76	1.36	0.0001	522	<5	1030	<0.001	<0.01	0.013	<0.001	0.001	1.8	8550	0.185	0.63	<0.001	470	14.3	<0.0004	<0.001	0.001	0.01	<0.01	6.08	0.01	0.01	<0.001	1550	13.8	3220	1580	8200	<0.01	0.059	1960	0.373	0	76	111.6
Mt Piper	Groundwater Bore MPGW14_0510	8/03/2023 7:00		110



Site	Sample Point	Date	Comment	Alkalinity as Carbonate (CaCO3) (mg/L)	Bi-Carbonate Alkalinity (mg/L)	Carbonate (mg/L)	Aluminium (mg/L)	Arsenic (mg/L)	Barium (mg/L)	Boron (mg/L)	Cadmium (mg/L)	Calcium (mg/L)	Chloride (mg/L)	Chromium (hexavalent) (mg/L)	Chromium (mg/L)	Chromium (trivalent) (mg/L)	Copper (mg/L)	Electrical Conductivity (µS/cm)	Iron (mg/L)	Lead (mg/L)	Magnesium (mg/L)	Manganese (mg/L)	Mercury (mg/L)	Molybdenum (mg/L)	Nickel (mg/L)	Potassium (mg/L)	Selenium (mg/L)	Silver (mg/L)	Sodium (mg/L)	Zinc (mg/L)	Aluminum filtered (mg/L)	Ammonia (mg/L)	Antimony - Filtered (mg/L)	Arsenate V (mg/L)	Arsenic filtered (mg/L)	Arsenite III (mg/L)	Barium filtered (mg/L)	Boron filtered (mg/L)	Cadmium filtered (mg/L)	Calcium filtered (mg/L)	Chromium filtered (mg/L)	Cobalt filtered (mg/L)	Dissolved Oxygen (in Field) (mg/L)	Fluoride (mg/L)	Hydroxide (CaCO3) (mg/L)	Iron filtered (mg/L)	Lead filtered (mg/L)	Magnesium filtered (mg/L)	Manganese filtered (mg/L)	Molybdenum filtered (mg/L)	Nickel filtered (mg/L)	Nitrate (mg/L)	Nitrate and Nitrite (mg/L)	Nitrite (mg/L)	Phosphate (PO4) Filtered (mg/L)	Phosphorus Filtered (mg/L)	Potassium filtered (mg/L)	Redox Potential (mV)	Selenium filtered (mg/L)	Sodium filtered (mg/L)	Sulphate Filtered (mg/L)	Total Dissolved Solids (mg/L)	Total Kjeldahl Nitrogen (mg/L)	Total Nitrogen (mg/L)	Total Phosphate (PO4) (mg/L)	Total Phosphorus (P) (mg/L)	Total Suspended Solid (NFR) (mg/L)	Turbidity (NTU)	Vanadium filtered (mg/L)	Zinc filtered (mg/L)
Mt Piper	Wangcol Ck Surface Water_C	1/22/2026 11:45:00 AM		82	82	<1	0.169	<0.001	0.02	<0.05	<0.0001	22.3	8.92	<0.001	<0.001	<0.001	0.002	316	0.41	<0.001	11.2	0.118	<0.00004	0.005	0.004	3.99	0.0005	<0.0001	30.9	0.01	0.024	<0.01	<0.001	<0.0010	<0.001	<0.0010	0.02	0.05	<0.0001	19.6	<0.001	<0.001	5.6	0.299	<1	0.1	<0.001	10	0.119	0.004	0.003	0.01	0.01	<0.01	<0.10	0.02	3.79	141.3	0.0004	29.3	97.9	207	0.9	0.9	<0.10	0.01	<5	5.2	<0.0002	<0.005
Mt Piper	Wangcol Ck Surface Water_E	1/22/2026 12:55:00 PM		43	43	<1	0.014	<0.001	0.029	0.12	<0.0001	38.1	17.4	<0.001	<0.001	<0.001	0.002	657	0.78	<0.001	24.7	0.846	<0.00004	<0.001	0.032	6.32	<0.0002	<0.0001	61.2	0.022	<0.005	0.03	<0.001	<0.0010	<0.001	<0.0010	0.027	0.11	<0.0001	35.4	<0.001	0.004	6.9	0.079	<1	0.21	<0.001	23	0.84	<0.001	0.029	0.01	0.01	<0.01	<0.10	<0.01	5.99	50.4	<0.0002	61.5	181	460	0.6	0.6	<0.10	<0.01	<5	2.1	<0.0002	0.012
Mt Piper	Wangcol Ck Surface Water_G	1/22/2026 1:15:00 PM		59	59	<1	0.014	<0.001	0.023	0.24	<0.0001	64.4	54.6	<0.001	<0.001	<0.001	0.001	1274	0.19	<0.001	48.9	0.352	<0.00004	<0.001	0.069	13.7	<0.0002	<0.0001	145	0.009	<0.005	0.04	<0.001	<0.0010	<0.001	<0.0010	0.021	0.27	<0.0001	55.7	<0.001	<0.001	7.3	0.081	<1	0.06	<0.001	43	0.326	<0.001	0.064	<0.01	<0.01	<0.01	<0.10	0.01	13.4	127.5	<0.0002	134	356	876	0.5	0.5	<0.10	<0.01	<5	1	<0.0002	<0.005
Mt Piper	Wangcol Ck_F/Stream Gauge	1/22/2026 1:08:00 PM		62	62	<1	0.013	<0.001	0.023	0.25	<0.0001	62.6	60.8	<0.001	<0.001	<0.001	0.002	1277	0.18	<0.001	47.1	0.336	<0.00004	<0.001	0.072	14.2	<0.0002	<0.0001	142	0.017	<0.005	0.04	<0.001	<0.0010	<0.001	<0.0010	0.02	0.27	<0.0001	55.9	<0.001	<0.001	7.3	0.121	<1	0.06	<0.001	43.7	0.318	<0.001	0.061	<0.01	<0.01	<0.01	<0.10	<0.01	13.6	130.5	<0.0002	136	393	902	0.7	0.7	<0.10	<0.01	<5	0.9	<0.0002	<0.005
Mt Piper	Coxs River Upstream WX9	1/14/2026 8:40:00 AM		118	118	<1	0.086	<0.001	0.028	0.28	<0.0001	70.3	76.7	<0.001	<0.001	<0.001	0.003	1441	0.38	0.001	46.3	0.323	<0.00004	0.001	0.057	19.7	0.0002	0.0001	153	0.014	0.01	0.04	<0.001	<0.0010	<0.001	<0.0010	0.027	0.31	<0.0001	69.4	<0.001	<0.001	6.9	0.178	<1	0.15	<0.001	47.8	0.265	<0.001	0.059	0.01	0.01	<0.01	<0.10	0.03	21.1	180.9	<0.0002	159	491	1050	1.1	1.1	0.13	0.04	<5	3.8	<0.0002	0.009
Mt Piper	Wangcol Creek Weir	1/05/2026 9:05		76	76	<1	1.27	0.004	0.035	0.06	0.0002	25.8	5.68	<0.001	0.003	<0.001	0.015	346	2.43	0.006	10.8	0.194	<0.00004	0.008	0.013	5.16	0.0008	<0.0001	27.3	0.088	0.016	0.01	<0.001	<0.0010	<0.001	<0.0010	0.016	<0.05	<0.0001	23.4	<0.001	<0.001	6.8	0.173	<1	<0.05	<0.001	10.2	0.063	0.008	0.004	0.14	0.15	0.01	<0.10	<0.01	4.83	232.6	0.0006	28.2	71.5	214	0.4	0.6	0.2	0.06	92	292	0.0003	<0.005