Mt Piper Power Station
Monthly Environment Monitoring Data

Prepared by:
Mt Piper Environment Team

Report creation date: 14 October 2025

NR = Not Required, ND = No Data

List of Tables

List of Figures

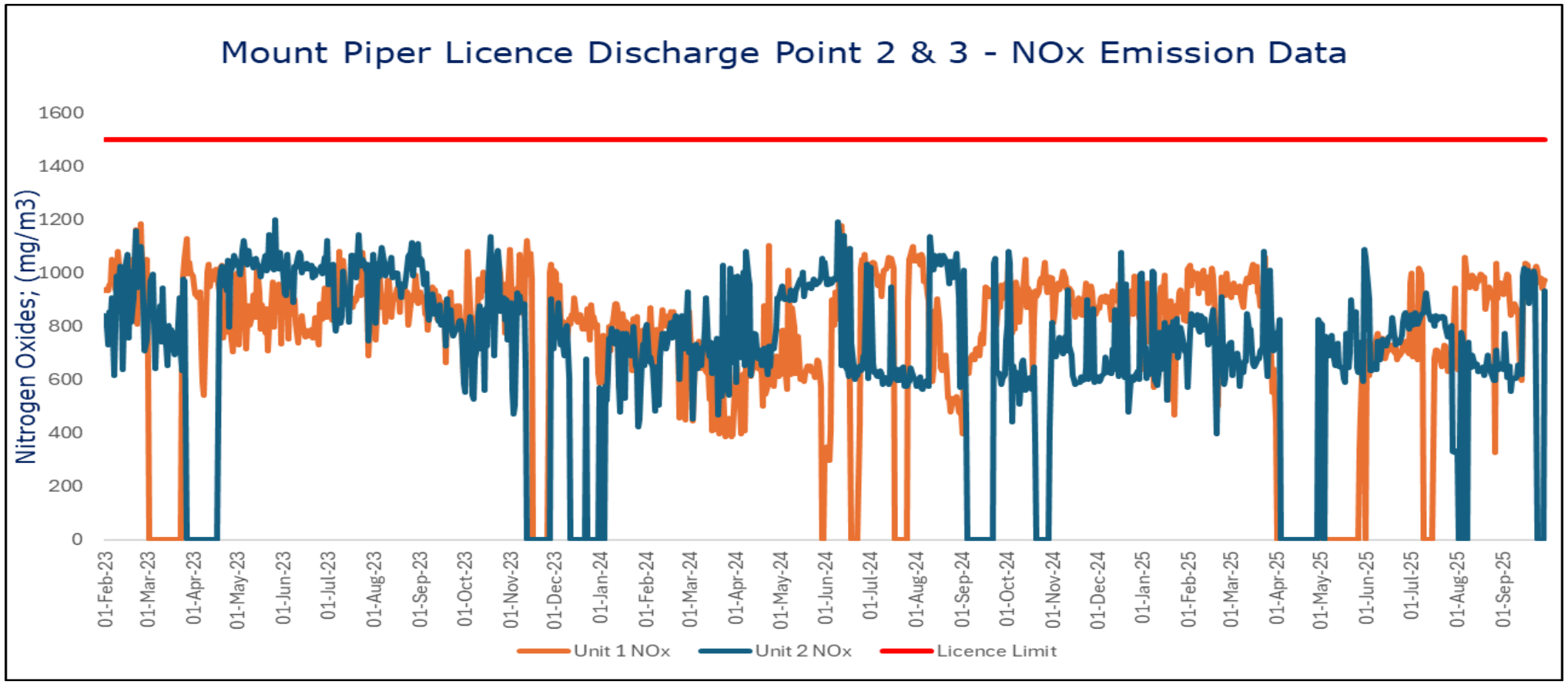
EPL Number:	13007
EPL Holder:	EnergyAustralia NSW
EPL Name of Facility:	MOUNT PIPER POWER STATION
EPL Address of Facility:	350 BOULDER RD PORTLAND, NSW 2847
EPL Website link:	Environment & Heritage | POEO Licences, Application and Notice Detail (nsw.gov.au)
EPL Monitoring Locations:	https://www.energyaustralia.com.au/about-us/energy-generation/mt-piper-power-station/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 – 30 September 2025
Monthly Summary Status:	Complete: monitoring data obtained.

Table 1: Compliance Summary:

Were all licence monitoring limits met:	YES

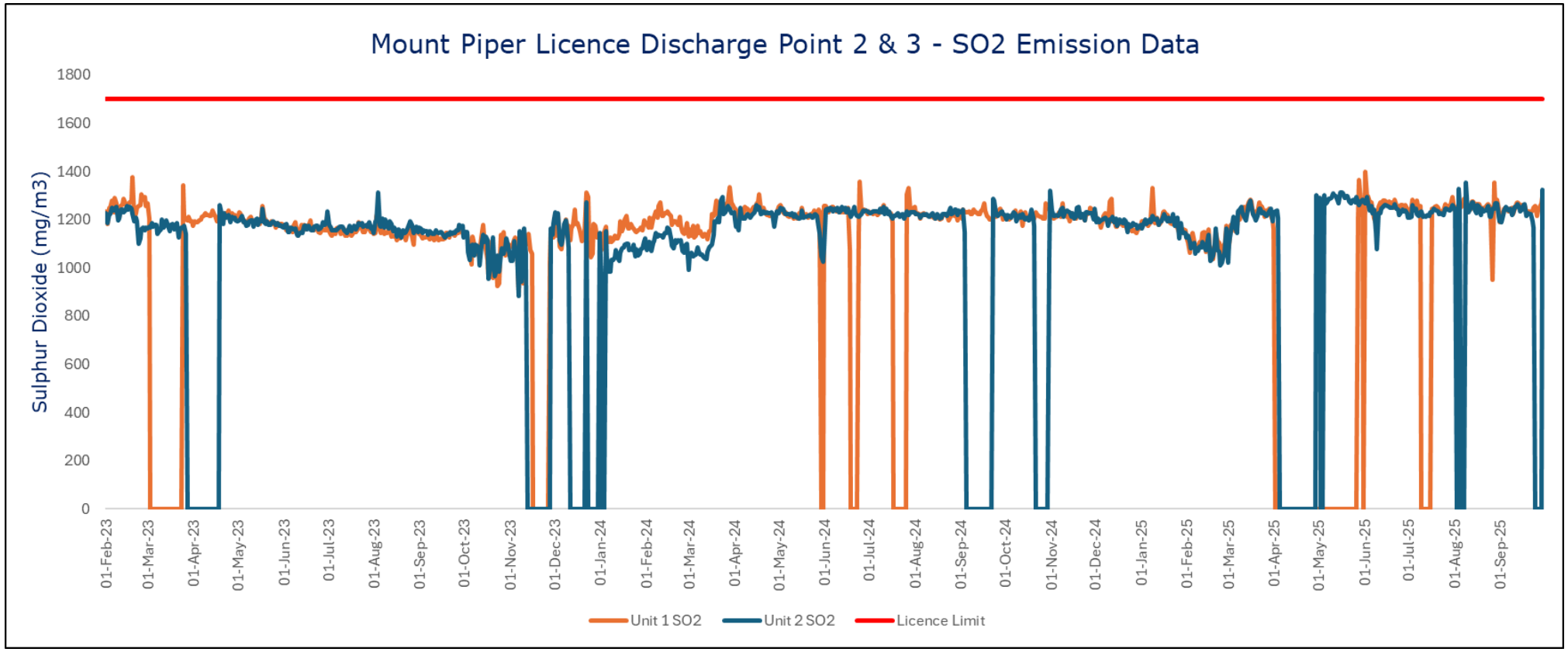
Table 2: Details of any Licence Monitoring Limit not met:

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



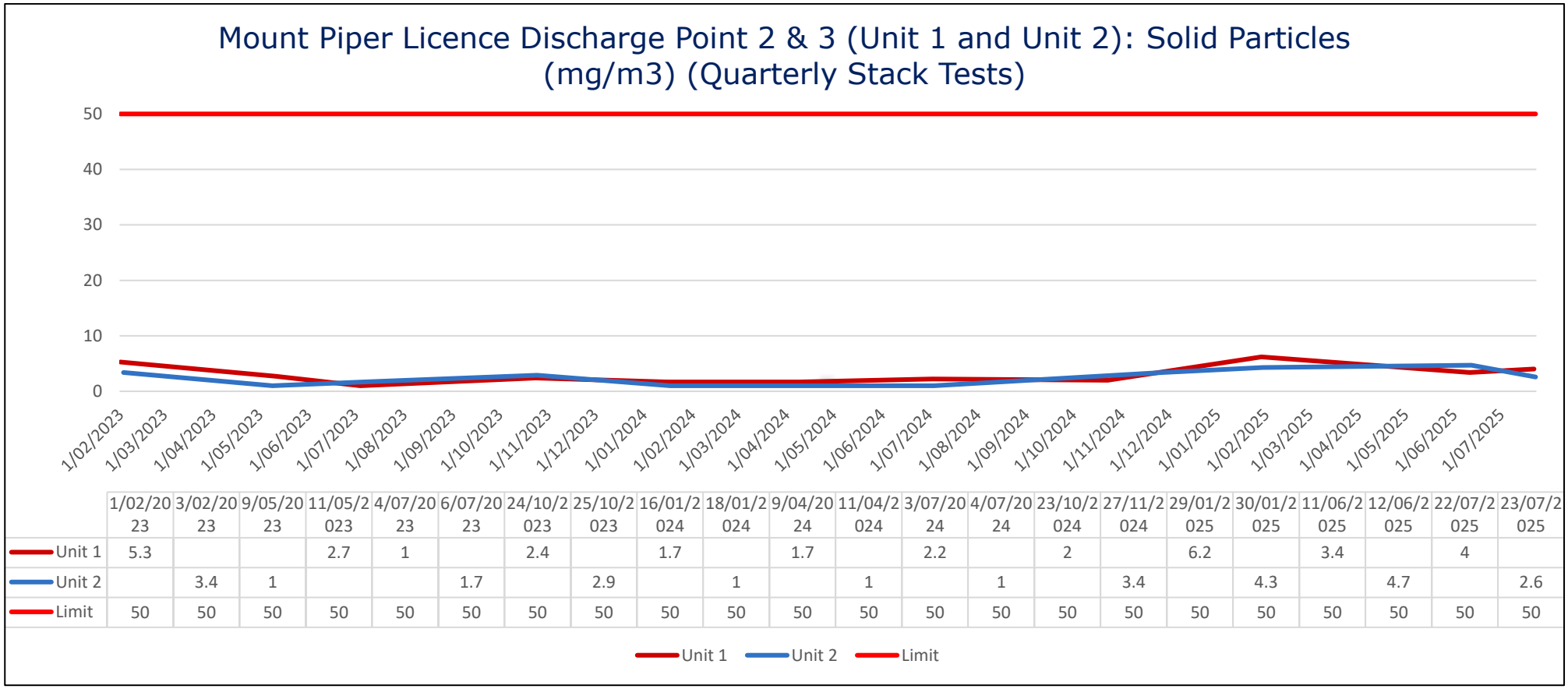
Note: Gap in data is due to periods when the unit was shut down, or the monitoring equipment was offline.
Source: Data is obtained from the Continuous Emission Monitoring System.

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
Unit 1	5.3			2.7	1		2.4		1.7		1.7		2.2		2		6.2		3.4		4	
Unit 2		3.4	1			1.7		2.9		1		1		1		3.4		4.3		4.7		2.6
Limit	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

NR = Not Required, ND = No Data

Discharge to Water

Table 3: Water Quality at EPL Point 12

2025	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	414	500	<5	10	7.32	6.5-8.5	3.33	50	3.17	25	Yes	Flow / Discharge recorded week of 9/01/2025
			434		<5		7.50		15.67		19.90		Yes	Flow / Discharge recorded week of 14/01/2025
February	1	2	366	500	<5	10	7.37	6.5-8.5	5.00	50	4.58	25	Yes	Flow / Discharge recorded week of 12/02/2025
			471		<5		7.75		1.33		3.87		Yes	Flow / Discharge recorded week of 26/02/2025
March	0	0	NR	500	NR	10	NR	6.5-8.5	NR	50	NR	25	Yes	Not sampled due to no flow / no discharge
April	1	1	433	500	<5	10	7.12	6.5-8.5	16.00	50	6.02	25	Yes	Flow / Discharge recorded week of 29/04/2025
May	1	2	433	500	<5	10	7.12	6.5-8.5	16.00	50	6.02	25	Yes	Flow/Discharge record week of 2/05/2025
			317		<5		6.85		13.00		4.16		Yes	Flow/Discharge record week of 29/05/2025
June	1	1	317	500	<5	10	6.85	6.5-8.5	13.00	50	4.16	25	Yes	Flow/Discharge record week of 2/06/2025
July	1	3	311	500	<5	10	7.45	6.5-8.5	10.33	50	3.03	25	Yes	Flow/Discharge record week of 1/07/2025
			257		<5		7.22		18.40		12.9		Yes	Flow/Discharge record week of 8/07/2025
			293		<5		7.63		7.67		3.76		Yes	Flow/Discharge record week of 24/07/2025
August	1	2	310	500	<5	10	7.89	6.5-8.5	10.67	50	5.32	25	Yes	Flow/Discharge record week of 5/08/2025
			287		<5		7.76		6.33		6.52		Yes	Flow/Discharge record week of 27/08/2025
September	1	2	316	500	<5	10	7.90	6.5-8.5	14.67	50	19.2	25	Yes	Flow/Discharge record week of 3/09/2025
			245		<5		7.49		13.50		6.49		Yes	Flow/Discharge record week of 12/09/2025
October				500		10		6.5-8.5		50		25		
November				500		10		6.5-8.5		50		25		
December				500		10		6.6-8.5		50		25		

Report creation date: 14 October 2025

NR = Not Required, ND = No Data

Air Emissions

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

2025	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	230	556	994	1500	1,100	87	0	Yes
		3	275	475	1009			87	0	Yes
February	Continuous	2	252	644	1032	1500	1,100	87	0	Yes
		3	242	507	912			87	0	Yes
March	Continuous	2	246	602	1060	1500	1,100	87	0	Yes
		3	288	497	1081			87	0	Yes
April	Continuous	2	327	392	451	1500	1,100	87	0	Yes
		3	307	634	826			87	0	Yes
May	Continuous	2	304	502	680	1500	1,100	87	0	Yes
		3	264	551	1088			87	0	Yes
June	Continuous	2	368	616	774	1500	1,100	87	0	Yes
		3	259	618	1058			87	0	Yes
July	Continuous	2	346	582	1019	1500	1,100	87	0	Yes
		3	265	610	927			87	0	Yes
August	Continuous	2	280	672	1061	1500	1,100	87	0	Yes
		3	282	513	777			87	0	Yes
September	Continuous	2	274	682	1039	1500	1,100	87	0	Yes
		3	285	558	1018			87	0	Yes
October	Continuous	2				1500	1,100		0	
		3							0	
November	Continuous	2				1500	1,100		0	
		3							0	
December	Continuous	2				1500	1,100		0	
		3							0	

Source: Data is obtained from Continuous Emission Monitoring System

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

2025	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	740	1147	1332	1700	1,400	87	0	Yes
		3	760	1155	1224			87	0	Yes
February	Continuous	2	772	1035	1173	1700	1,400	87	0	Yes
		3	785	1027	1165			87	0	Yes
March	Continuous	2	899	1146	1284	1700	1,400	87	0	Yes
		3	885	1138	1277			87	0	Yes
April	Continuous	2	1045	1106	1160	1700	1,400	87	0	Yes
		3	991	1183	1301			87	0	Yes
May	Continuous	2	1205	1250	1365	1700	1,400	87	0	Yes
		3	1034	1252	1314			87	0	Yes
June	Continuous	2	1075	1228	1398	1700	1,400	87	0	Yes
		3	1007	1203	1294			87	0	Yes
July	Continuous	2	1166	1227	1295	1700	1,400	87	0	Yes
		3	1122	1202	1260			87	0	Yes
August	Continuous	2	952	1214	1354	1700	1,400	87	0	Yes
		3	908	1195	1355			87	0	Yes
September	Continuous	2	815	1177	1296	1700	1,400	87	0	Yes
		3	894	1160	1324			87	0	Yes
October	Continuous	2				1700	1,400		0	
		3							0	
November	Continuous	2				1700	1,400		0	
		3							0	
December	Continuous	2				1700	1,400		0	
		3							0	

Source: Data is obtained from the Continuous Emission Monitoring System

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

2025	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	6.0	9.0	11.0	105	117	131	4.4	6.9	8.7
		3	6.6	9.5	11.6	105	114	131	4.1	6.6	8.2
February	Continuous	2	7.4	9.4	14.1	91	115	131	3.7	6.8	8.9
		3	7.6	9.8	14.0	101	113	129	3.7	6.4	8.3
March	Continuous	2	7.4	9.0	13.9	90	117	131	4.6	6.9	8.5
		3	7.8	9.4	13.9	101	112	133	4.5	6.5	8.1
April	Continuous	2	8.9	10.6	11.9	97	105	117	5.4	5.9	6.6
		3	7.9	8.7	12.6	103	114	122	4.3	6.4	7.4
May	Continuous	2	7.6	8.7	11.1	82	113	128	5.2	6.5	7.3
		3	6.7	9.0	11.7	86	114	128	4.9	6.5	8.2
June	Continuous	2	7.7	9.0	11.8	78	120	128	4.7	6.3	7.9
		3	7.7	8.9	11.6	97	112	129	4.4	6.1	7.5
July	Continuous	2	7.8	9.1	11.6	104	119	129	4.8	6.3	7.7
		3	7.9	9.1	11.8	97	111	122	4.5	6.1	7.3
August	Continuous	2	7.7	9.3	14.0	85	119	128	3.6	6.3	8.0
		3	7.6	9.2	13.8	73	110	122	3.5	6.3	7.9
September	Continuous	2	7.7	9.7	13.8	104	119	129	3.4	6.0	8.2
		3	7.6	9.9	13.8	70	109	128	3.3	5.9	8.2
October	Continuous	2									
		3									
November	Continuous	2									
		3									
December	Continuous	2									
		3									

Source: Data is obtained from the Continuous Emission Monitoring System

NR = Not Required, ND = No Data

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

2025	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	3	6.2	3.4	<4		50	Yes
		3	3	4.3	4.7	2.6			Yes

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

2025	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	10.2		-	Yes
		3	1	11.9		-	Yes
Cadmium (mg/m^3)	2	2	2	<0.0002	0.00022	0.03	Yes
		3	2	<0.0002	0.00013		Yes
Mercury (mg/m^3)	2	2	2	0.0021	0.00018	0.03	Yes
		3	2	0.00077	<0.0003		Yes
Type 1 and Type 2 substances in aggregate (mg/m^3)	2	2	2	<0.03	≤0.03	0.60	Yes
		3	2	<0.03	≤0.02		Yes
Hydrogen Chloride (mg/m^3)	2	2	1	2.7		50	Yes
		3	1	2.6			Yes
Fluorine (mg/m^3)	2	2	1	10		30	Yes
		3	1	15			Yes
Chlorine (mg/m^3)	2	2	1	<0.03		4	Yes
		3	1	<0.02			Yes
Sulfuric Acid Mist and Sulfur Trioxide as SO^3 (mg/m^3)	2	2	1	4.8		100	Yes
		3	1	2.2			Yes
Volatile Organic Compounds as n-propane equivalent (mg/m^3)	2	2	1	0.18		8	Yes
		3	1	0.12			Yes

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)									
		NO_2 (pphm)									
		PM2.5 (µg/mg³)									
October	Continuous	SO_2 (pphm)									
		NO_2 (pphm)									
		PM2.5 (µg/mg³)									
November	Continuous	SO_2 (pphm)									
		NO_2 (pphm)									
		PM2.5 (µg/mg³)									
December	Continuous	SO_2 (pphm)									
		NO_2 (pphm)									
		PM2.5 (µg/mg³)									

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

Report creation date: 14 October 2025

NR = Not Required, ND = No Data

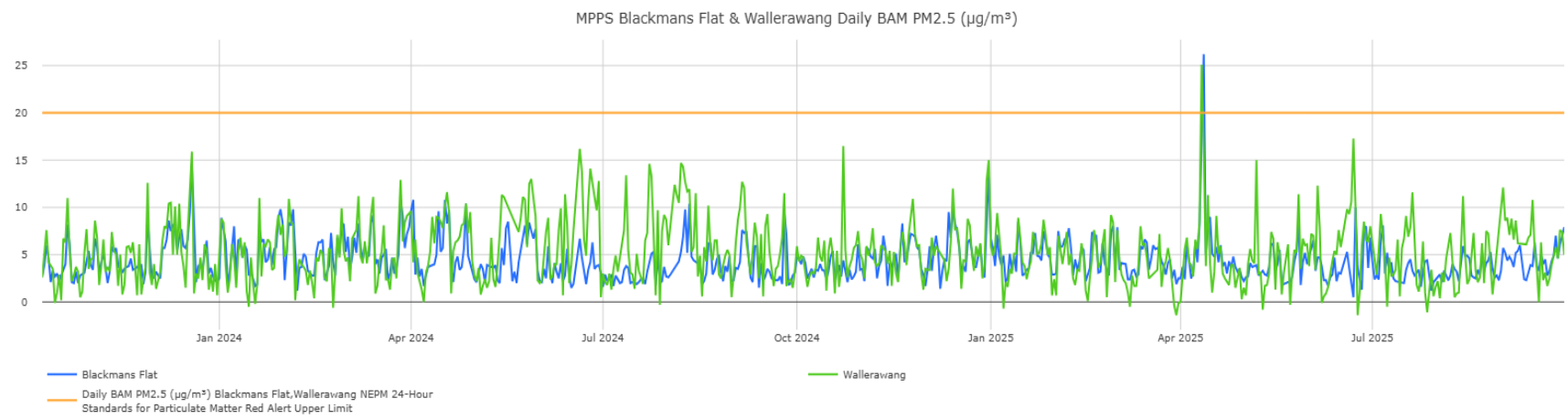


Figure 4: MPPS PM2.5 (µg/m³) Daily Average

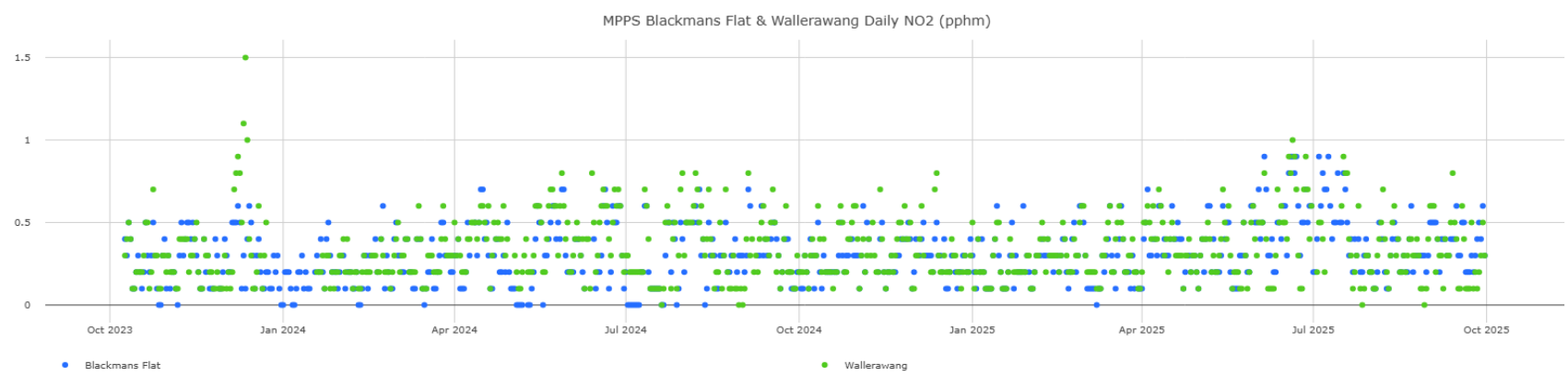


Figure 5: MPPS NO2 pphm Daily Average

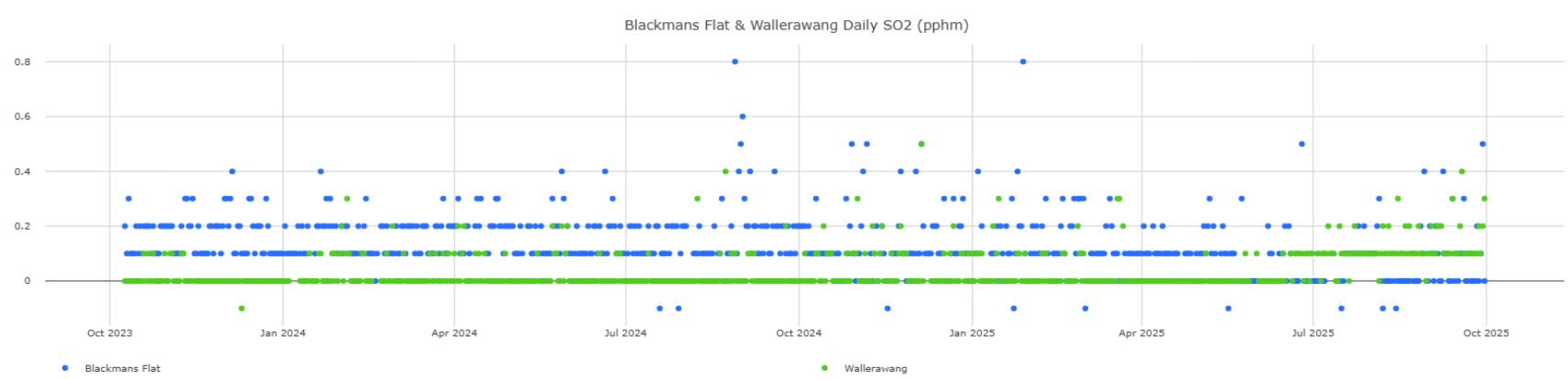


Figure 6: MPPS SO2 pphm Daily Average

Table 10: TCR Water Quality and TCR Riparian Release

2025	Electrical Conductivity (µS/cm)						TCR Riparian Release (ML/month)
	Thompsons Creek Reservoir*			TCR Riparian Release**			
	Lowest Sample Value	Median Sample Value	Highest Sample Value	Lowest Sample Value	Median Sample Value	Highest Sample Value	
January	478	478	478	NR	NR	NR	39
February	479	479	481	NR	NR	NR	208
March	479	480	482	478	491	496	571
April	480	481	482	475	486	498	71
May	494	495	495	458	473	491	449
June	489	490	492	461	479	493	567
July	475	475	475	466	487	534	579
August	470	470	471	464	469	477	580
September	470	470	470	462	466	474	567
October							
November							
December							

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

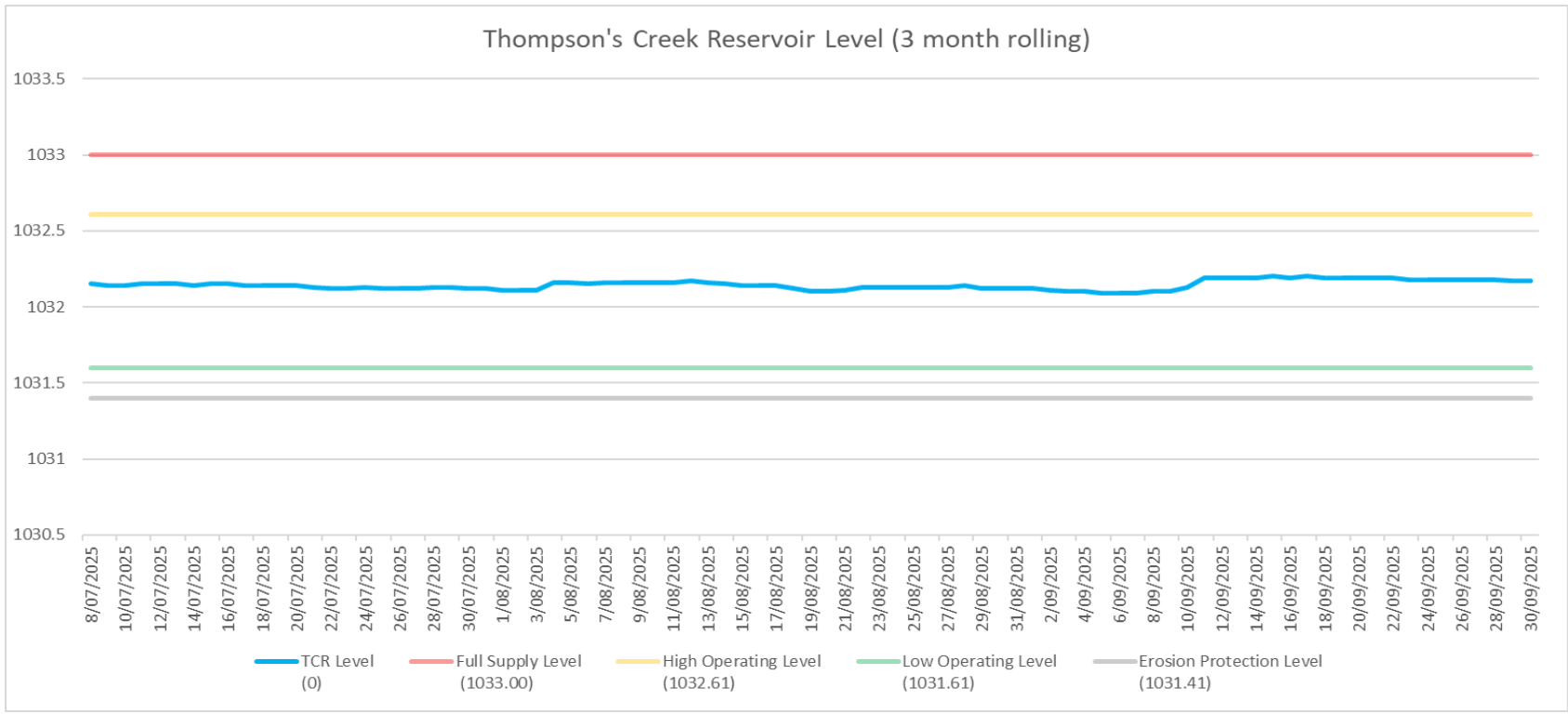


Figure 7: TCR Water Level

Report creation date: 14 October 2025

NR = Not Required, ND = No Data