Monthly Environmental Monitoring Data Report

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 December 2024
Monthly Summary Status:	Complete: monitoring data obtained.

Discharge to water

Table 1 - Water Quality at EPL Point 12

2024	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	267	500	<5	10	7.65	6.5-8.5	3.30	50	2.07	25	Yes	Flow / Discharge recorded week of 8/01/2024
			351		<5		7.21		6.40		8.76		Yes	Flow / Discharge recorded week of 22/01/2024
February	1	1	281	500	<5	10	7.27	6.5-8.5	2.00	50	3.54	25	Yes	Flow / Discharge recorded week of 5/02/2024
March	1	2	367	500	<5	10	7.59	6.5-8.5	2.00	50	4.57	25	Yes	Flow / Discharge recorded week of 1/03/2024
			353		<5		7.07		7.30		10.60		Yes	Flow / Discharge recorded week of 18/03/2024
April	1	1	253	500	<5	10	7.04	6.5-8.5	11.70	50	16.50	25	Yes	Flow / Discharge recorded week of 8/04/2024
May	1	1	335	500	<5	10	6.94	6.5-8.5	3.30	50	5.97	25	Yes	Flow / Discharge recorded week of 13/05/2024
June	0	0	NR	500	NR	10	NR	6.5-8.5	NR	50	NR	25	Yes	Not sampled due to no flow / no discharge.
July	1	1	367	500	<5	10	7.72	6.5-8.5	9.33	50	9.34	25	Yes	Flow / Discharge recorded week of 2/07/2024
August	1	1	358	500	<5	10	7.63	6.5-8.5	1.67	50	6.10	25	Yes	Flow / Discharge recorded week of 2/08/2024
September	0	0	NR	500	NR	10	NR	6.5-8.5	NR	50	NR	25	Yes	Not sampled due to no flow / no discharge.
October	1	1	417	500	<5	10	7.73	6.5-8.5	8.33	50	4.73	25	Yes	Flow / Discharge recorded week of 1/10/2024
November	1	1	391	500	<5	10	7.99	6.5-8.5	8.33	50	11.90	25	Yes	Flow / Discharge recorded week of 28/11/2024
December	1	1	362	500	<5	10	7.66	6.6-8.5	3.33	50	8.22	25	Yes	Flow / Discharge recorded week of 11/12/2024

Report creation date: 14 January 2025

NR = Not Required, ND = No Data

Air Emissions

Table 2 - Nitrogen Oxides (NO_x) Monitoring at EPL Points 2 and 3

2024	No. of samples required by licence	No. of samples during Month	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	Continuous	2	275	493	885	1500	1,100	87	0	Yes
			3	228	451	801			87	0	Yes
February	Continuous	Continuous	2	259	501	871	1500	1,100	87	0	Yes
			3	207	482	931			87	0	Yes
March	Continuous	Continuous	2	232	395	856	1500	1,100	87	0	Yes
			3	260	469	1031			87	0	Yes
April	Continuous	Continuous	2	240	467	1103	1500	1,100	86	1	Yes
			3	222	521	1082			87	0	Yes
May	Continuous	Continuous	2	260	563	1011	1500	1,100	86	0	Yes
			3	319	761	1057			87	0	Yes
June	Continuous	Continuous	2	247	698	1178	1500	1,100	84	2	Yes
			3	391	700	1193			84	3	Yes
July	Continuous	Continuous	2	337	853	1100	1500	1,100	83	1	Yes
			3	297	544	1022			84	0	Yes
August	Continuous	Continuous	2	253	584	1070	1500	1,100	83	0	Yes
			3	306	673	1136			83	1	Yes
September	Continuous	Continuous	2	178	578	958	1500	1,100	83	0	Yes
			3	281	535	1056			83	0	Yes
October	Continuous	Continuous	2	184	641	1055	1500	1,100	83	0	Yes
			3	258	467	1083			83	0	Yes
November	Continuous	Continuous	2	172	702	1009	1500	1,100	83	0	Yes
			3	280	539	939			83	0	Yes
December	Continuous	Continuous	2	188	652	989	1500	1,100	83	0	Yes
			3	271	509	1080			83	0	Yes

Report creation date: 14 January 2025

NR = Not Required, ND = No Data

Table 3 - Sulphur Dioxides (SO_2) Monitoring at EPL Points 2 and 3

2024	No. of samples required by licence	No. of samples during Month	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	Continuous	2	979	1114	1215	1700	1,400	87	0	Yes
			3	859	1011	1154			87	0	Yes
February	Continuous	Continuous	2	1005	1160	1271	1700	1,400	87	0	Yes
			3	907	1066	1167			87	0	Yes
March	Continuous	Continuous	2	931	1133	1334	1700	1,400	87	0	Yes
			3	830	1071	1294			87	0	Yes
April	Continuous	Continuous	2	890	1181	1306	1700	1,400	87	0	Yes
			3	915	1159	1259			87	0	Yes
May	Continuous	Continuous	2	964	1190	1259	1700	1,400	87	0	Yes
			3	901	1169	1249			87	0	Yes
June	Continuous	Continuous	2	1074	1215	1358	1700	1,400	87	0	Yes
			3	927	1199	1252			87	0	Yes
July	Continuous	Continuous	2	1028	1207	1332	1700	1,400	87	0	Yes
			3	1049	1202	1254			87	0	Yes
August	Continuous	Continuous	2	912	1172	1252	1700	1,400	87	0	Yes
			3	1124	1197	1249			87	0	Yes
September	Continuous	Continuous	2	941	1185	1268	1700	1,400	87	0	Yes
			3	1147	1198	1288			87	0	Yes
October	Continuous	Continuous	2	887	1166	1267	1700	1,400	87	0	Yes
			3	955	1172	1241			87	0	Yes
November	Continuous	Continuous	2	1042	1189	1268	1700	1,400	87	0	Yes
			3	990	1194	1320			87	0	Yes
December	Continuous	Continuous	2	978	1151	1288	1700	1,400	87	0	Yes
			3	1088	1161	1247			87	0	Yes

Report creation date: 14 January 2025

NR = Not Required, ND = No Data

Table 4 - Oxygen (O2), Temperature & Moisture Monitoring at EPL Points 2 and 3

2024	No. of samples required by licence	No. of samples during Month	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	Continuous	2	7.7	9.8	11.6	105	114	126	5.8	7.2	9.5
			3	6.8	8.9	13.4	84	111	124	5.8	7.3	9.8
February	Continuous	Continuous	2	7.7	9.5	13.7	107	117	127	4.7	7.2	9.2
			3	7.1	8.8	12.6	102	114	131	5.0	7.3	9.4
March	Continuous	Continuous	2	7.6	9.9	13.8	104	114	127	3.9	6.6	8.7
			3	7.1	9.6	13.4	100	110	127	4.5	6.7	9.0
April	Continuous	Continuous	2	7.2	8.8	13.3	104	116	128	4.1	6.9	8.6
			3	7.2	9.3	13.4	102	111	122	4.3	6.7	8.5
May	Continuous	Continuous	2	6.8	7.7	10.1	109	123	128	5.8	7.2	8.5
			3	7.1	8.2	11.1	102	115	128	5.4	7.1	8.4
June	Continuous	Continuous	2	7.2	8.2	11.3	66	123	129	5.4	6.9	8.9
			3	6.9	7.7	10.3	104	116	124	5.8	7.4	8.9
July	Continuous	Continuous	2	7.2	7.9	10.8	73	123	128	5.8	7.0	8.2
			3	6.9	7.9	10.6	100	115	124	5.6	7.3	8.5
August	Continuous	Continuous	2	7.1	8.6	12.1	107	121	130	4.1	6.7	8.5
			3	7.0	8.6	11.5	98	112	124	5.1	7.0	8.6
September	Continuous	Continuous	2	7.2	8.7	12.3	107	121	130	4.1	6.6	8.4
			3	7.4	9.1	11.6	98	111	128	5.0	6.7	8.2
October	Continuous	Continuous	2	7.3	9.1	13.5	105	120	129	4.0	6.6	8.7
			3	7.5	9.9	13.6	76	109	130	4.3	6.7	11.3
November	Continuous	Continuous	2	7.1	8.4	13.4	96	122	131	4.3	7.2	9.2
			3	7.5	8.6	13.6	80	118	132	4.3	7.2	8.7
December	Continuous	Continuous	2	7.2	8.8	11.7	89	120	131	4.9	7.0	9.0
			3	7.5	8.9	11.2	105	118	133	4.9	6.9	9.0

Report creation date: 14 January 2025

NR = Not Required, ND = No Data

Table 5 – Quarterly Stack Emissions Monitoring at EPL Points 2 and 3

2024	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	4	1.7	1.7	2.2	<2	50	Yes
		3	4	<1	<1	<1	3.4		Yes

Table 6 – Six Monthly Stack Emissions Monitoring at EPL Points 2 and 3

2024	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	2	2.2	9.3	-	Yes
		3	2	2.6	11.8	-	Yes
Cadmium (mg/m^3)	2	2	2	0.0012	0.00093	0.03	Yes
		3	2	0.00094	0.00069		Yes
Mercury (mg/m^3)	2	2	2	0.0032	<0.0002	0.03	Yes
		3	2	0.002	<0.0005		Yes
Type 1 and Type 2 substances in aggregate (mg/m^3)	2	2	2	<0.06	≤0.05	0.60	Yes
		3	2	<0.1	≤0.03		Yes
Hydrogen Chloride (mg/m^3)	2	2	2	2.2	0.25	50	Yes
		3	2	3	3		Yes
Fluorine (mg/m^3)	2	2	2	11	1.4	30	Yes
		3	2	11	10		Yes
Chlorine (mg/m^3)	2	2	2	<0.02	0.27	4	Yes
		3	2	<0.03	<0.01		Yes
Sulfuric Acid Mist and Sulfur Trioxide as SO^3 (mg/m^3)	2	2	2	2.1	2.1	100	Yes
		3	2	3.3	1.3		Yes
Volatile Organic Compounds as n-propane equivalent (mg/m^3)	2	2	2	0.23	0.22	8	Yes
		3	2	0.31	1.9		Yes