

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 \(nsw.gov.au\)](https://www.environment.nsw.gov.au/energy-australia/energy-australia-licences-application-and-notice-detail)
 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 2023
 Monthly Summary Status: Complete: monitoring data obtained.

Discharge to water

Table 1 - Water Quality at EPL Point 12

2023	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	0	0	NR	500	NR	10	NR	6.5-8.5	NR	50	NR	25	Yes	Not sampled due to no flow / no discharge.
February	0	0	NR	500	NR	10	NR	6.5-8.5	NR	50	NR	25	Yes	Not sampled due to no flow / no discharge.
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	2	352	500	<5	10	7.53	6.5-8.5	11.2	50	5.73	25	Yes	Flow / Discharge recorded week of 3/04/2023
			361				7.70		3.4		3.49			Flow / Discharge recorded week of 17/04/2023
May	1	1	242	500	<5	10	7.34	6.5-8.5	10	50	12.8	25	Yes	Flow / Discharge recorded week of 1/05/2023
June	1	1	307	500	<5	10	7.55	6.5-8.5	12	50	10.2	25	Yes	Flow / Discharge recorded week of 26/06/2023
July	1	1	362	500	<5	10	7.58	6.5-8.5	21.3	50	4.14	25	Yes	Flow / Discharge recorded week of 24/07/2023
August	0	0	NR	500	NR	10	NR	6.5-8.5	NR	50	NR	25	Yes	Not sampled due to no flow / no discharge.
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	254	500	<5	10	7.46	6.5-8.5	14.3	50	3.66	25	Yes	Flow / Discharge recorded week of 9/10/2023
November	0	0	NR	500	NR	10	NR	6.5-8.5	NR	50	NR	25	Yes	Not sampled due to no flow / no discharge.
December	1	2	236	500	<5	10	7.04	6.6-8.5	8.3	50	8.69	25	Yes	Flow / Discharge recorded week of 4/12/2023
			233				7.60		0.8		3.73			Flow / Discharge recorded week of 18/12/2023

Air Emissions

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

2023	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)	99 th percentile			Compliant
								Limit (mg/m ³)	87 1-hr averaging periods/yr	1hr averaging periods > limit	
January	Continuous	Continuous	2	308	727	1123	1500	1,100	86	1	Yes
			3	323	691	1056			87	0	Yes
February	Continuous	Continuous	2	321	741	1187	1500	1,100	78	8	Yes
			3	328	692	1160			84	3	Yes
March	Continuous	Continuous	2	382	772	1130	1500	1,100	77	1	Yes
			3	247	618	995			84	0	Yes
April	Continuous	Continuous	2	382	674	1032	1500	1,100	77	0	Yes
			3	339	664	1067			84	0	Yes
May	Continuous	Continuous	2	318	700	1042	1500	1,100	77	0	Yes
			3	449	852	1201			79	5	Yes
June	Continuous	Continuous	2	315	685	948	1500	1,100	77	0	Yes
			3	536	829	1079			79	0	Yes
July	Continuous	Continuous	2	391	748	1082	1500	1,100	77	0	Yes
			3	356	777	1145			77	2	Yes
August	Continuous	Continuous	2	297	711	1037	1500	1,100	77	0	Yes
			3	433	766	1115			75	2	Yes
September	Continuous	Continuous	2	296	659	949	1500	1,100	77	0	Yes
			3	319	633	1055			75	0	Yes
October	Continuous	Continuous	2	182	649	1083	1500	1,100	77	0	Yes
			3	292	527	1137			74	1	Yes
November	Continuous	Continuous	2	320	734	1122	1500	1,100	76	1	Yes
			3	232	548	925			74	0	Yes
December	Continuous	Continuous	2	244	629	1013	1500	1,100	76	0	Yes
			3	256	542	890			74	0	Yes

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

2023	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)	99 th percentile			Compliant
								Limit (mg/m ³)	87 1-hr averaging periods/yr	1hr averaging periods > limit	
January	Continuous	Continuous	2	1077	1197	1323	1700	1,400	87	0	Yes
			3	1021	1179	1286					
February	Continuous	Continuous	2	1076	1207	1378	1700	1,400	87	0	Yes
			3	1039	1174	1257					
March	Continuous	Continuous	2	1128	1179	1341	1700	1,400	87	0	Yes
			3	960	1124	1202					
April	Continuous	Continuous	2	1089	1181	1239	1700	1,400	87	0	Yes
			3	1028	1179	1262					
May	Continuous	Continuous	2	1074	1166	1256	1700	1,400	87	0	Yes
			3	1036	1160	1244					
June	Continuous	Continuous	2	1058	1133	1198	1700	1,400	87	0	Yes
			3	1067	1137	1197					
July	Continuous	Continuous	2	1064	1126	1221	1700	1,400	87	0	Yes
			3	865	1143	1233					
August	Continuous	Continuous	2	1012	1110	1237	1700	1,400	87	0	Yes
			3	1017	1133	1311					
September	Continuous	Continuous	2	886	1102	1159	1700	1,400	87	0	Yes
			3	917	1118	1179					
October	Continuous	Continuous	2	644	951	1177	1700	1,400	87	0	Yes
			3	730	971	1149					
November	Continuous	Continuous	2	677	980	1158	1700	1,400	87	0	Yes
			3	580	901	1165					
December	Continuous	Continuous	2	853	1079	1312	1700	1,400	87	0	Yes
			3	915	1094	1271					

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

2023	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 ₂ O, hourly average)	Mean of sample (H ₂ O)	Highest sample value (H ₂ O, hourly average)
January	Continuous	Continuous	2	8.4	11.1	13.5	81	112	127	5.1	6.6	9.1
			3	7.6	10.6	14.6	74	111	125	4.5	6.7	9.4
February	Continuous	Continuous	2	8.4	11.3	13.3	91	113	127	4.9	6.2	8.8
			3	7.3	10.2	12.4	96	113	128	5.1	6.7	9.4
March	Continuous	Continuous	2	7.3	10.2	13.3	75	114	128	5.1	6.9	9.1
			3	7.0	9.3	12.1	102	113	127	5.0	6.8	9.0
April	Continuous	Continuous	2	7.1	9.5	11.2	106	116	124	5.7	6.9	9.0
			3	8.0	10.1	12.4	85	109	124	5.4	6.8	8.6
May	Continuous	Continuous	2	7.1	8.7	10.7	107	119	126	5.8	7.0	8.9
			3	7.6	9.4	11.5	102	112	121	5.6	6.8	8.5
June	Continuous	Continuous	2	6.9	8.6	10.6	108	118	128	5.9	7.0	8.9
			3	7.6	9.4	11.4	104	113	123	5.5	6.8	8.3
July	Continuous	Continuous	2	7.3	8.6	10.4	107	118	125	5.8	6.9	8.6
			3	7.3	9.1	11.5	95	112	122	5.5	6.9	8.4
August	Continuous	Continuous	2	7.3	9.0	11.3	107	116	124	5.7	6.8	8.6
			3	7.4	9.8	12	89	109	120	5.2	6.6	8.3
September	Continuous	Continuous	2	7.3	9.4	14.2	102	113	124	3.9	6.5	8.3
			3	7.3	10.1	14.6	101	110	130	4.2	6.3	8.1
October	Continuous	Continuous	2	7.4	10.6	14.5	92	111	124	3.5	5.9	8.7
			3	7.9	11.4	16.6	90	106	122	3.5	5.7	7.7
November	Continuous	Continuous	2	7.0	9.2	14.1	105	118	130	4.1	7.0	9.2
			3	7.8	10.5	14.5	72	110	122	4.1	6.8	9.0
December	Continuous	Continuous	2	7.2	9.2	16.2	105	119	130	3.9	7.2	9.4
			3	8.0	10.1	13.9	81	113	131	4.5	7.2	13.4

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

2023	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	5.3	2.7	<1	2.4	50	Yes
		3	4	3.4	<2	1.7	2.9		Yes

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

2023	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	8.2	11.6	-	Yes
		3	2	8.1	12	-	Yes
Cadmium (mg/m ³)	2	2	2	<0.0005	<0.0006	0.2	Yes
		3	2	<0.0003	<0.0002		Yes
Mercury (mg/m ³)	2	2	2	0.0033	0.001	0.05	Yes
		3	2	0.0034	0.00039		Yes
Type 1 and Type 2 substances in aggregate (mg/m ³)	2	2	2	<0.03	<0.2	0.75	Yes
		3	2	<0.03	<0.05		Yes
Hydrogen Chloride (mg/m ³)	2	2	2	4.1	1.2	50	Yes
		3	2	1.8	1.7		Yes
Fluorine (mg/m ³)	2	2	2	13	12	30	Yes
		3	2	6.8	16		Yes
Chlorine (mg/m ³)	2	2	2	0.16	<0.02	20	Yes
		3	2	0.051	<0.02		Yes
Sulfuric Acid Mist and Sulfur Trioxide as SO ₃ (mg/m ³)	2	2	2	5	2.6	100	Yes
		3	2	8.8	0.94		Yes
Volatile Organic Compounds as n-propane equivalent (mg/m ³)	2	2	2	0.13	0.17	10	Yes
		3	2	<0.08	0.2		Yes