

## **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: <a href="https://apps.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=156231&SYSUID=1&LICID=13007">https://apps.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=156231&SYSUID=1&LICID=13007</a>

EPL Monitoring Locations: <a href="https://www.energyaustralia.com.au/about-us/energy-generation/mt-piper-power-station/mt-piper-epa-reports">https://www.energyaustralia.com.au/about-us/energy-generation/mt-piper-power-station/mt-piper-epa-reports</a>
<a href="https://www.energyaustralia.com.au/about-us/energy-generation/mt-piper-power-station/mt-piper-epa-reports">https://www.energyaustralia.com.au/about-us/energy-generation/mt-piper-power-station/mt-piper-epa-reports</a>

EPL Period monitored: 1 – 31 August 2020

Monthly Summary Status: Complete: all monitoring data obtained

## **Discharge to water**

## Table 1 - Water Quality at EPL Point 12\*

2020	Samples required	during		ctivity 'cm)	Oil & Grease (mg/l)		рН		Total Suspended Solids (mg/l)		Turbidity (NTU)		Carratiant		
2020	by EPL (1/mth during discharge)		Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Compliant	Comment	
January	1	NIL	NR	-	NR	10	NR	6.5-8.5	NR	50	NR	-	Yes	Not sampled: due to no flow / no discharge	
February	1	NIL	NR	-	NR	10	NR	6.5-8.5	NR	50	NR	-	Yes	Not sampled: due to no flow / no discharge	
March	1	1	NR	-	<5	10	7.03	6.5-8.5	3.8	50	NR	-	Yes	Flow / Discharge recorded week of 07/03/2020- 13/03/2020	
April	1	1	NR	-	<5	10	7.27	6.5-8.5	3.6	50	NR	-	Yes	Flow / Discharge weeks of 04/04/2020 – 10/04/2020 and 11/04/2020 – 17/04/2020	
May	1	1	NR	-	<5	10	6.96	6.5-8.5	2.7	50	NR	-	Yes	Flow / Discharge recorded week of 02/05/2020- 08/05/2020	
June	1	NIL	NR	-	NR	10	NR	6.5-8.5	NR	50	NR	-	Yes	Not sampled: due to no flow / no discharge	
July	1	1	492	500	<5	10	7.64	6.5-8.5	4.6	50	13.8	25	Yes	Flow / Discharge recorded week of 25/07/2020 – 31/07/2020	
August	1	1	454	500	<5	10	7.47	6.5-8.5	8	50	10.5	25	Yes	Flow / Discharge recorded weeks of 08/08/2020 – 14/08/2020 and 15/08/2020 – 21/08/2020	
September	1			500		10		6.5-8.5		50		25			
October	1			500		10		6.5-8.5		50		25			
November	1			500		10		6.5-8.5		50		25			
December	1			500		10		6.5-8.5		50		25			

EPL Point 1 renamed EPL Point 12 within EPL 13007 on 23 July 2020.



## **Air Emissions**

Table 2 - Nitrogen Oxides (NO<sub>x</sub>) Monitoring at EPL Points 2 and 3

2020	No. of samples required by licence	No. of samples during Month	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)	Compliant
January	Continuous	Continuous	2	0.01	0.65	1.15	1.5	Yes
January	January Continuous	Continuous	3	0.13	0.46	0.84	1.5	Yes
February	Continuous	Continuous	2	0.03	0.63	0.99	1.5	Yes
rebluary	ebruary Continuous		3	0.20	0.53	1.12	1.5	Yes
N. An walk	Cantinua	Cantin	2	0.24	0.84	1.10	4.5	Yes
March	Continuous	Continuous	3	0.36	0.55	0.71	1.5	Yes
A : I	Cantinuana	Cantinuana	2	0.33	0.68	0.88	1.5	Yes
April	Continuous	Continuous	3	0.21	0.60	0.99	1.5	Yes
	May Continuous	Continuous	2	0.13	0.65	1.06	4.5	Yes
iviay			3	0.09	0.86	1.27	1.5	Yes
	0 11	Carria	2	0.5	0.87	1.08	1-	Yes
June	Continuous	Continuous	3	0.32	0.76	1.20	1.5	Yes
	Cartianana	Continuous	2	304	666	928	4500*	Yes
July	Continuous		3	410	865	1117	1500*	Yes
	0 11		2	414	789	985	1500	Yes
August	Continuous	Continuous	3	237	760	1073	1500	Yes
September	Continuous		3				1500	
			2					
October	Continuous		3				1500	
	o .:		2				4555	
November	Continuous		3				1500	
			2					
December	Continuous		3				1500	

<sup>\*</sup> Units of Measurement for NOx changed from g/m³ to mg/m³ within EPL 13007 on 23 July 2020.



Table 3 - Sulphur Dioxides (SO<sub>2</sub>) Monitoring at EPL Points 2 and 3

2020	No. of samples required by licence	No. of samples during Month	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)	Compliant
January	Continuous	Continuous	2	825	1227	1365	_	Yes
January	y Continuous	Continuous	3	918	1246	1359	_	Yes
February	Continuous	Continuous	2	72	1240	1347	_	Yes
Tebruary	Continuous	Continuous	3	962	1278	1412		Yes
March	Continuous	Continuous	2	956	1170	1425		Yes
March	Continuous	Continuous	3	976	1283	1335	-	Yes
A : I	Cantinuana	Cartiana	2	1070	1192	1297		Yes
April	Continuous	Continuous	3	1080	1235	1597	-	Yes
	Carlinga	61	2	56	1206	1358		Yes
May	Continuous	Continuous	3	249	1166	1382	-	Yes
l	Cartiana	6	2	864	1124	1247		Yes
June	Continuous	Continuous	3	968	1106	1206	-	Yes
	0 ::	Continuous	2	567	1124	1214	1700	Yes
July	Continuous		3	983	1102	1189	1700	Yes
	0 ::	Continuous	2	701	1177	1325	1700	Yes
August	Continuous		3	687	1132	1239	1700	Yes
			2					
September	Continuous		3				1700	
	Continuous		2					
October			3				1700	
			2					
November	Continuous		3				1700	
			2					
December	Continuous		3				1700	



Table 4 - Annual Stack Emissions Monitoring at EPL Points 2 and 3

	No. of samples required by EPL	EPL	Samples		Res					
2020		Point	taken during year	Q1	Q2	Q3	Q4	Limit	Compliant	
Carbon Dioxide (%)	4	2	1		12.7			_	Yes	
Carbon bloxide (%)	4	3	1		13			-	163	
Solid Particles (mg/m³)	4	2	1		14			50	Yes	
Solid Faiticles (Hig/Hi )	4	3	1		11.5			30	163	
Cadmium (mg/m³)	2	2	1		0.0005			0.2	Yes	
Caumam (mg/m )	2	3	1		0.0001	NR		0.2	162	
Chlorine (mg/m³)	2	2	1		0.005			20	Yes	
Chlorine (mg/m/)		3	1		0.002			20	163	
Fluorine (mg/m³)	2	2	1	NR	1.2			- 30	Yes	
ridoffile (ffig/ffi )	2	3	1		3.9					
Hydrogen Chloride (mg/m³)	2	2	1		0.12			50	Yes	
		3	1		0.53					
Mercury (mg/m³)	2	2	1		0.0018			0.05	Yes	
iviercury (mg/m/)		3	1		0.00026			0.03	163	
Sulfuric Acid Mist and Sulfur Trioxide	2	2	1		4.2			100	Yes	
as SO <sup>3</sup> (mg/m <sup>3</sup> )		3	1		41					
Type 1 and Type 2 substances in	2	2	1		0.0095			0.75	Yes	
aggregate (mg/m³)	2	3	1	- - -	0.006	-			0.75	res
Volatile Organic Compounds as n-	2	2	1		0.18			10	Yes	
propane equivalent (mg/m³)	2	3	1		0.04					
Overgon (9/)		2	1		7.3				V	
Oxygen (%)	-	3	1		7.13				Yes	
Tamananahuna (%C)		2	1		125		•		Yes	
Temperature (°C)		3	1		125				162	
Flow Pata (m³/s)		2	1		330				Yes	
Flow Rate (m³/s)	-	3	1		350			-		
Maisture as II O (9/)		2	1		5.5				Vas	
Moisture as H₂O (%)	-	3	1		5.4			-	Yes	



Table 5 - 99th percentile rolling 12 month NO<sub>x</sub> & SO<sub>2</sub> Performance\*

2020	EPL Point	Description	99% Limit (mg/m³)	1-hr averaging periods/yr	Rolling 12mth, 1hr averaging periods > limit	Compliant
NO <sub>x</sub>	2	Unit 1 (duct A & B)	1,100	88	0	Yes
	3	Unit 2 (duct A & B)		88	0	Yes
SO <sub>2</sub>	2	Unit 1 (duct A & B)	1,400	88	0	Yes
	3	Unit 2 (duct A & B)		88	0	Yes

<sup>\*99%</sup> NO<sub>x</sub> & SO<sub>2</sub> limits commenced on 23 July 2020 following a variation to the Mt Piper Licence