



**Appin Power Station**  
**Licence Number:** 5482  
**Licence Holder:** EDL CSM (NSW) PTY LTD  
**Licensee Address:** Appin Coal Seam Methane Power Station  
 Northampton Dale Road Appin NSW 2560

**Dates:** FY 2022-23

**Frequency:** Continuous monitoring for ambient NOx, O3 (taken off site) and point source NO3 air emissions;  
 Spot sampling weekly during discharge for First Flush pH and oil and grease (O&G);  
 Spot sampling monthly for Process Water Effluent pH and oil and grease (O&G);  
 Spot sampling monthly for Septic Effluent biological oxygen demand (BOD), fecal coliforms (FC), O&G, total nitrogen (TN), TDS, total phosphorus (TP).

Month	Location of monitoring point	Sampled	Obtained	Published	Pollutant	Units	Monitoring frequency (licence)	Measurement during month	Min	Mean	Max	Licence limit	Exceedance (Yes/No)
Jul-22	Point 10 - Ambient air and weather monitoring station		12-08-22	15-08-22	NOx	ppb	Continuous	Continuous	-1	9	131		
			12-08-22	15-08-22	O3	ppb	Continuous	Continuous	1	20	33		
	Point 13 - Air emissions monitoring		12-08-22	15-08-22	NOx	ppm	Continuous Max limit 2878 g/min (1hr rolling average)	Continuous	<2878 g/min			<2878 g/min	No
	Point 11 - First Flush Effluent quality monitoring		26-07-22	4-08-22	O&G	mg/L	Weekly during any discharge	16	N/A			nil visual	
			3-08-22	8-08-22	pH		Weekly during any discharge	16	7.12	7.58	8.45	6.5-8.5	No
		8-07-22	26-07-22	4-08-22	Salinity	ppt	Not required	1	0.25				
		8-07-22	26-07-22	4-08-22	TSS	mg/L	Not required	1	2				
	Point 12 - Process Water Effluent quality monitoring	8-07-22	26-07-22	4-08-22	O&G	mg/L	Monthly	1	<5			nil visual	No
		8-07-22	26-07-22	4-08-22	pH		Monthly	1	7.29			6.5-8.5	No
		8-07-22	26-07-22	4-08-22	Salinity	ppt	Not required	1	0.165				
		8-07-22	26-07-22	4-08-22	TDS	mg/L	Not required	1	142				
	Point 16 - Septic waste water Effluent quality monitoring	8-07-22	26-07-22	4-08-22	TSS	mg/L	Not required	1	4				
		8-07-22	26-07-22	4-08-22	O&G	mg/L	Monthly	1	<3				
		8-07-22	26-07-22	4-08-22	BOD	mg/L	Monthly	1	<5				
		8-07-22	26-07-22	4-08-22	FC	cfu/100mL	Monthly	1	<1				
		8-07-22	26-07-22	4-08-22	TN	mg/L	Monthly	1	26				
8-07-22		26-07-22	4-08-22	TDS	mg/L	Monthly	1	233					
8-07-22		26-07-22	4-08-22	TSS	mg/L	Not required	1	14					
8-07-22		26-07-22	4-08-22	TP	mg/L	Monthly	1	3					
Aug-22	Point 10 - Ambient air and weather monitoring station		12-09-22	19-09-22	NOx	ppb	Continuous	Continuous	0	6	48		
			12-09-22	19-09-22	O3	ppb	Continuous	Continuous	1	19	34		
	Point 13 - Air emissions monitoring		12-09-22	19-09-22	NOx	ppm	Continuous Max limit 2878 g/min (1hr rolling average)	Continuous	<2878 g/min			<2878 g/min	No
	Point 11 - First Flush Effluent quality monitoring		22-08-22	30-08-22	O&G	mg/L	Weekly during any discharge	12	Nil			nil visual	No
			3-09-22	12-09-22	pH		Weekly during any discharge	12	7.09	7.6	8.24	6.5-8.5	No
	Point 12 - Process Water Effluent quality monitoring	5-08-22	22-08-22	30-08-22	Salinity	ppt	Not required	1	0.27				
		5-08-22	22-08-22	30-08-22	TSS	mg/L	Not required	1	1				
		5-08-22	22-08-22	30-08-22	O&G	mg/L	Monthly	1	<5			nil visual	
		5-08-22	22-08-22	30-08-22	pH		Monthly	1	7.26			6.5-8.5	
	Point 16 - Septic waste water Effluent quality monitoring	5-08-22	22-08-22	30-08-22	Salinity	ppt	Not required	1	0.13				
		5-08-22	22-08-22	30-08-22	TDS	mg/L	Not required	1	109				
		5-08-22	22-08-22	30-08-22	TSS	mg/L	Not required	1	2				
		5-08-22	22-08-22	30-08-22	O&G	mg/L	Monthly	1	<3				
		5-08-22	22-08-22	30-08-22	BOD	mg/L	Monthly	1	<5				
		5-08-22	22-08-22	30-08-22	FC	cfu/100mL	Monthly	1	<10				
		5-08-22	22-08-22	30-08-22	TN	mg/L	Monthly	1	64				
5-08-22		22-08-22	30-08-22	TDS	mg/L	Monthly	1	296					
Sep-22	Point 10 - Ambient air and weather monitoring station		12-10-22	17-10-22	NOx	ppb	Continuous	Continuous	0	7	68		
			12-10-22	17-10-22	O3	ppb	Continuous	Continuous	1	21	38		
	Point 13 - Air emissions monitoring		12-10-22	17-10-22	NOx	ppm	Continuous Max limit 2878 g/min (1hr rolling average)	Continuous	<2878 g/min			<2878 g/min	No
	Point 11 - First Flush Effluent quality monitoring		21-09-22	29-09-22	O&G	mg/L	Weekly during any discharge	12	Nil			nil visual	No
			3-10-22	14-10-22	pH		Weekly during any discharge	12	7.18	7.5	7.94	6.5-8.5	No
		6-09-22	21-09-22	29-09-22	Salinity	ppt	Not required	1	n/a				
		6-09-22	21-09-22	29-09-22	TSS	mg/L	Not required	1	n/a				
	Point 12 - Process Water Effluent quality monitoring	6-09-22	21-09-22	29-09-22	O&G	mg/L	Monthly	1	<5			nil visual	No
		6-09-22	21-09-22	29-09-22	pH		Monthly	1	7.28			6.5-8.5	No
		6-09-22	21-09-22	29-09-22	Salinity	ppt	Not required	1	0.112				
		6-09-22	21-09-22	29-09-22	TDS	mg/L	Not required	1	97				
	Point 16 - Septic waste water Effluent quality monitoring	6-09-22	21-09-22	29-09-22	TSS	mg/L	Not required	1	10				
		6-09-22	21-09-22	29-09-22	O&G	mg/L	Monthly	1	<3				
		6-09-22	21-09-22	29-09-22	BOD	mg/L	Monthly	1	7				
		6-09-22	21-09-22	29-09-22	FC	cfu/100mL	Monthly	1	1				
		6-09-22	21-09-22	29-09-22	TN	mg/L	Monthly	1	45				
6-09-22		21-09-22	29-09-22	TDS	mg/L	Monthly	1	243					
6-09-22		21-09-22	29-09-22	TSS	mg/L	Not required	1	18					
6-09-22		21-09-22	29-09-22	TP	mg/L	Monthly	1	3.3					
Oct-22	Point 13 - Air emissions monitoring		7-11-22	7-11-22	NOx	ppm	Continuous Max limit 2878 g/min (1hr rolling average)	Continuous	<2878 g/min			<2878 g/min	No
			3-11-22	7-11-22	O&G	mg/L	Weekly during any discharge	17	Nil			nil visual	No
	Point 11 - First Flush Effluent quality monitoring		3-11-22	7-11-22	pH		Weekly during any discharge	17	6.95	7.39	7.95	6.5-8.5	No
			11-10-22	24-10-22	7-11-22	Salinity	ppt	Not required	1	0.166			
	Point 12 - Process Water Effluent quality monitoring	11-10-22	24-10-22	7-11-22	TSS	mg/L	Not required	1	2				
		11-10-22	24-10-22	7-11-22	O&G	mg/L	Monthly	1	<5			nil visual	No
		11-10-22	24-10-22	7-11-22	pH		Monthly	1	7.90			6.5-8.5	No
		11-10-22	24-10-22	7-11-22	Salinity	ppt	Not required	1	0.122				
	Point 16 - Septic waste water Effluent quality monitoring	11-10-22	24-10-22	7-11-22	TDS	mg/L	Not required	1	103				
		11-10-22	24-10-22	7-11-22	TSS	mg/L	Not required	1	4				
		11-10-22	24-10-22	7-11-22	O&G	mg/L	Monthly	1	<3				
		11-10-22	24-10-22	7-11-22	BOD	mg/L	Monthly	1	10				
		11-10-22	24-10-22	7-11-22	FC	cfu/100mL	Monthly	1	<10				
		11-10-22	24-10-22	7-11-22	TN	mg/L	Monthly	1	33				
		11-10-22	24-10-22	7-11-22	TDS	mg/L	Monthly	1	148				
		11-10-22	24-10-22	7-11-22	TSS	mg/L	Not required	1	20				
11-10-22	24-10-22	7-11-22	TP	mg/L	Monthly	1	2.6						

**Edits:** November 2022: Table reformatting. Removal of ambient air data, this data is not required to be published as per NSW EPA 'Requirements for Publishing Pollution Monitoring Data'