

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



Dates: FY 2024-25  
 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), 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-24	Point 13 - Air emissions monitoring		26/07/24	6/08/24	NOx	ppm	Continuous	Continuous		<2878 g/min		<2878 g/min	No
	Point 11 - First Flush Effluent quality monitoring		3/08/24	6/08/24	O&G	visible	Weekly during discharge	7		Nil		nil visual	No
			3/08/24	6/08/24	pH		Weekly during discharge	7	7.10	7.15	7.32	6.5-8.5	No
	Point 12 - Process Water Effluent quality monitoring	4/07/24	24/07/24	6/08/24	O&G	visible	Monthly	1		<5		nil visual	No
		4/07/24	24/07/24	6/08/24	pH		Monthly	1		7.06		6.5-8.5	No
	Point 16 - Septic waste water Effluent quality monitoring	4/07/24	24/07/24	6/08/24	BOD	mg/L	Monthly	1		14			
		4/07/24	24/07/24	6/08/24	FC	cfu/100mL	Monthly	1		<10			
		4/07/24	24/07/24	6/08/24	TN	mg/L	Monthly	1		34			
		4/07/24	24/07/24	6/08/24	TDS	mg/L	Monthly	1		583			
		4/07/24	24/07/24	6/08/24	TP	mg/L	Monthly	1		19			
Aug-24	Point 13 - Air emissions monitoring		21/10/24	23/10/24	NOx	ppm	Continuous	Continuous		1959 g/min (max)		<2878 g/min	No
	Point 11 - First Flush Effluent quality monitoring		3/09/24	3/09/24	O&G	visible	Weekly during discharge	9		Nil		nil visual	No
			3/09/24	3/09/24	pH		Weekly during discharge	9	6.76	7.08	7.57	6.5-8.5	No
	Point 12 - Process Water Effluent quality monitoring	8/08/24	22/08/24	3/09/24	O&G	visible	Monthly	1		<5		nil visual	No
		8/08/24	22/08/24	3/09/24	pH		Monthly	1		6.64		6.5-8.5	No
	Point 16 - Septic waste water Effluent quality monitoring	8/08/24	22/08/24	3/09/24	BOD	mg/L	Monthly	1		<5			
		8/08/24	22/08/24	3/09/24	FC	cfu/100mL	Monthly	1		190			
		8/08/24	22/08/24	3/09/24	TN	mg/L	Monthly	1		68			
		8/08/24	22/08/24	3/09/24	TDS	mg/L	Monthly	1		552			
		8/08/24	22/08/24	3/09/24	TP	mg/L	Monthly	1		12			
Sep-24	Point 13 - Air emissions monitoring		21/10/24	23/10/24	NOx	ppm	Continuous	Continuous		1458 g/min (max)		<2878 g/min	No
	Point 11 - First Flush Effluent quality monitoring		3/10/02	3/10/24	O&G	visible	Weekly during discharge	10		Nil		nil visual	No
			3/10/24	3/10/24	pH		Weekly during discharge	10	7.20	7.4	7.6	6.5-8.5	No
	Point 12 - Process Water Effluent quality monitoring	4/09/24	17/09/24	19/09/24	O&G	visible	Monthly	1		<5		nil visual	No
		4/09/24	17/09/24	19/09/24	pH		Monthly	1		7.49		6.5-8.5	No
	Point 16 - Septic waste water Effluent quality monitoring	4/09/24	17/09/24	19/09/24	BOD	mg/L	Monthly	1		<5			
		4/09/24	12/09/24	19/09/24	FC	cfu/100mL	Monthly	1		<10			
		4/09/24	17/09/24	19/09/24	TN	mg/L	Monthly	1		60			
		4/09/24	17/09/24	19/09/24	TDS	mg/L	Monthly	1		525			
		4/09/24	17/09/24	19/09/24	TP	mg/L	Monthly	1		15			
Oct-24	Point 13 - Air emissions monitoring		25/10/24	4/11/24	NOx	ppm	Continuous	Continuous		1780 g/min (max)		<2878 g/min	No
	Point 11 - First Flush Effluent quality monitoring		3/11/24	4/11/24	O&G	mg/L	Weekly during discharge	14		Nil		nil visual	No
			3/11/24	4/11/24	pH		Weekly during discharge	14	7.10	7.6	8.3	6.5-8.5	No
	Point 12 - Process Water Effluent quality monitoring	3/10/24	24/10/24	4/11/24	O&G	mg/L	Monthly	1		<3		nil visual	No
		3/10/24	24/10/24	4/11/24	pH		Monthly	1		7.06		6.5-8.5	No
	Point 16 - Septic waste water Effluent quality monitoring	3/10/24	24/10/24	4/11/24	BOD	mg/L	Monthly	1		<5			
		3/10/24	24/10/24	4/11/24	FC	cfu/100mL	Monthly	1		<10			
		3/10/24	24/10/24	4/11/24	TN	mg/L	Monthly	1		61			
		3/10/24	24/10/24	4/11/24	TDS	mg/L	Monthly	1		562			
		3/10/24	24/10/24	4/11/24	TP	mg/L	Monthly	1		16			
Nov-24	Point 13 - Air emissions monitoring		1/12/24	4/12/24	NOx	ppm	Continuous	Continuous		1726 g/min (max)		<2878 g/min	No
	Point 11 - First Flush Effluent quality monitoring		3/12/24	4/12/24	O&G	mg/L	Weekly during discharge	11		Nil		nil visual	No
			3/12/24	4/12/24	pH		Weekly during discharge	11	6.90	7.5	8.26	6.5-8.5	No
	Point 12 - Process Water Effluent quality monitoring	7/11/24	25/11/24	4/12/24	O&G	mg/L	Monthly	1		<5		nil visual	No
		7/11/24	25/11/24	4/12/24	pH		Monthly	1		6.68		6.5-8.5	No
	Point 16 - Septic waste water Effluent quality monitoring	7/11/24	25/11/24	4/12/24	BOD	mg/L	Monthly	1		<5			
		7/11/24	13/11/24	4/12/24	FC	cfu/100mL	Monthly	1		<10			
		7/11/24	25/11/24	4/12/24	TN	mg/L	Monthly	1		61			
		7/11/24	25/11/24	4/12/24	TDS	mg/L	Monthly	1		517			
		7/11/24	25/11/24	4/12/24	TP	mg/L	Monthly	1		15			
Dec-24	Point 13 - Air emissions monitoring		1/01/25	8/01/25	NOx	ppm	Continuous	Continuous		1796 g/min (max)		<2878 g/min	No
	Point 11 - First Flush Effluent quality monitoring		3/01/25	8/01/25	O&G	mg/L	Weekly during discharge	30		Nil		nil visual	No
			3/01/25	8/01/25	pH		Weekly during discharge	14	6.81	7.48	8	6.5-8.5	No
	Point 12 - Process Water Effluent quality monitoring	4/12/24	3/01/25	8/01/25	O&G	mg/L	Monthly	1		<5		nil visual	No
		4/12/24	3/01/25	8/01/25	pH		Monthly	1		7.12		6.5-8.5	No
	Point 16 - Septic waste water Effluent quality monitoring	4/12/24	6/01/25	8/01/25	BOD	mg/L	Monthly	1		<5			
		4/12/24	17/12/24	8/01/25	FC	cfu/100mL	Monthly	1		<1			
		4/12/24	6/01/25	8/01/25	TN	mg/L	Monthly	1		51			
		4/12/24	6/01/25	8/01/25	TDS	mg/L	Monthly	1		419			
		4/12/24	6/01/25	8/01/25	TP	mg/L	Monthly	1		11			
Jan-25	Point 13 - Air emissions monitoring		1/02/25	3/02/25	NOx	ppm	Continuous	Continuous		1592 g/min (max)		<2878 g/min	No
	Point 11 - First Flush Effluent quality monitoring		3/02/25	3/02/25	O&G	mg/L	Weekly during discharge	18		Nil		nil visual	No
			3/02/25	3/02/25	pH		Weekly during discharge	17	6.85	7.27	8.13	6.5-8.5	No
	Point 12 - Process Water Effluent quality monitoring	6/01/25	17/01/25	3/02/25	O&G	mg/L	Monthly	1		<5		nil visual	No
		6/01/25	17/01/25	3/02/25	pH		Monthly	1		6.85		6.5-8.5	No
	Point 16 - Septic waste water Effluent quality monitoring	6/01/25	17/01/25	3/02/25	BOD	mg/L	Monthly	1		<5			
		6/01/25	17/01/25	3/02/25	FC	cfu/100mL	Monthly	1		<10			
		6/01/25	17/01/25	3/02/25	TN	mg/L	Monthly	1		39			
		6/01/25	17/01/25	3/02/25	TDS	mg/L	Monthly	1		350			
		6/01/25	17/01/25	3/02/25	TP	mg/L	Monthly	1		8.9			
Feb-25	Point 13 - Air emissions monitoring		3/03/25	4/03/25	NOx	ppm	Continuous	Continuous		1748 g/min (max)		<2878 g/min	No
	Point 11 - First Flush Effluent quality monitoring		3/03/25	4/03/25	O&G	mg/L	Weekly during discharge	14		Nil		nil visual	No
			3/03/25	4/03/25	pH		Weekly during discharge	14	6.92	7.25	8.00	6.5-8.5	No
	Point 12 - Process Water Effluent quality monitoring	7/02/25	24/02/25	4/03/25	O&G	mg/L	Monthly	1		<5		nil visual	No
		7/02/25	24/02/25	4/03/25	pH		Monthly	1		6.84		6.5-8.5	No
	Point 16 - Septic waste water Effluent quality monitoring	7/02/25	24/02/25	4/03/25	BOD	mg/L	Monthly	1		<5			
		7/02/25	24/02/25	4/03/25	FC	cfu/100mL	Monthly	1		<1			
		7/02/25	24/02/25	4/03/25	TN	mg/L	Monthly	1		57			
		7/02/25	24/02/25	4/03/25	TDS	mg/L	Monthly	1		542			
		7/02/25	24/02/25	4/03/25	TP	mg/L	Monthly	1		6.6			