



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

**Dates:** FY 2021-2022

**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-21	Point 10 - Ambient air and weather monitoring station		12/08/21	18/08/21	NOx	ppb	Continuous	Cont.	0	6	99		
			12/08/21	18/08/21	O3	ppb	Continuous	Cont.	0	17	30		
	Point 13 - Air emissions monitoring		12/07/21	23/07/21	NOx	ppm	Continuous Max limit 2878 g/min (1hr rolling average)	Cont.	<2878 g/min			<2878 g/min	No
	Point 11 - First Flush Effluent quality monitoring		1/07/21	1/07/21	O&G	mg/L	Weekly during discharge with No visible oil	11	n/a			nil visual	No
			1/07/21	1/07/21	pH		Weekly during any discharge	11	7.28	7.55	7.81	6.5-8.5	No
		12/07/21	23/07/21	26/07/21	Salinity	ppt	Not required	-	0.332				
	Point 12 - Process Water Effluent quality monitoring	12/07/21	23/07/21	26/07/21	TSS	mg/L	Not required	-	5				
		12/07/21	23/07/21	26/07/21	O&G	mg/L	Monthly	1	<5			nil visual	No
		12/07/21	23/07/21	26/07/21	pH		Monthly	1	6.69			6.5-8.5	No
		12/07/21	23/07/21	26/07/21	Salinity	ppt	Not required	1	0.068				
		12/07/21	23/07/21	26/07/21	TDS	mg/L	Not required	1	58				
	Point 16 - Septic waste water Effluent quality monitoring	12/07/21	23/07/21	26/07/21	TSS	mg/L	Not required	1	11				
		12/07/21	23/07/21	26/07/21	BOD	mg/L	Monthly	1	<5				
		12/07/21	23/07/21	26/07/21	FC	cfu/100mL	Monthly	1	<10				
		12/07/21	23/07/21	26/07/21	O&G	mg/L	Monthly	1	<3				
		12/07/21	23/07/21	26/07/21	TN	mg/L	Monthly	1	24				
		12/07/21	23/07/21	26/07/21	TDS	mg/L	Monthly	1	352				
12/07/21		23/07/21	26/07/21	TSS	mg/L	Not required	1	50					
12/07/21		23/07/21	26/07/21	TP	mg/L	Monthly	1	4.2					
11/09/21		13/09/21	13/09/21	NOx	ppb	Continuous	Cont.	0	6	114			
Aug-21	Point 10 - Ambient air and weather monitoring station		11/09/21	13/09/21	O3	ppb	Continuous	Cont.	2	21	37		
			27/08/21	13/09/21	NOx	ppm	Continuous Max limit 2878 g/min (1hr rolling average)	Cont.	<2878 g/min			<2878 g/min	No
	Point 11 - First Flush Effluent quality monitoring		19/08/21	25/08/21	O&G	mg/L	Weekly during discharge with No visible oil	12	n/a			nil visual	No
	Point 11 - First Flush Effluent quality monitoring		8/09/21	9/09/21	pH		Weekly during any discharge	12	7.56	7.56	7.56	6.5-8.5	No
		4/08/21	19/08/21	25/08/21	Salinity	ppt	Not required	1	0.193				
		4/08/21	19/08/21	25/08/21	TSS	mg/L	Not required	1	6				
	Point 12 - Process Water Effluent quality monitoring	4/08/21	19/08/21	25/08/21	O&G	mg/L	Monthly	1	<5			nil visual	No
		4/08/21	8/09/21	9/09/21	pH		Monthly	1	7.04			6.5-8.5	No
		4/08/21	19/08/21	25/08/21	Salinity	ppt	Not required	1	0.203				
		4/08/21	19/08/21	25/08/21	TDS	mg/L	Not required	1	174				
	Point 16 - Septic waste water Effluent quality monitoring	4/08/21	19/08/21	25/08/21	TSS	mg/L	Not required	1	9				
		4/08/21	19/08/21	25/08/21	BOD	mg/L	Monthly	1	<5				
		4/08/21	19/08/21	25/08/21	FC	cfu/100mL	Monthly	1	<10				
		4/08/21	19/08/21	25/08/21	O&G	mg/L	Monthly	1	<3				
		4/08/21	19/08/21	25/08/21	TN	mg/L	Monthly	1	35				
		4/08/21	19/08/21	25/08/21	TDS	mg/L	Monthly	1	274				
		4/08/21	19/08/21	25/08/21	TSS	mg/L	Not required	1	18				
4/08/21		19/08/21	25/08/21	TP	mg/L	Monthly	1	2.9					
Sep-21	Point 10 - Ambient air and weather monitoring station		12/10/21	18/10/21	NOx	ppb	Continuous	Cont.	0	7	100		
			12/10/21	18/10/21	O3	ppb	Continuous	Cont.	2	22	44		
	Point 13 - Air emissions monitoring		12/10/21	18/10/21	NOx	ppm	Continuous Max limit 2878 g/min (1hr rolling average)	Cont.	<2878 g/min			<2878 g/min	No
	Point 11 - First Flush Effluent quality monitoring		25/10/21	1/11/21	O&G	mg/L	Weekly during discharge with No visible oil	5	n/a			nil visual	No
			25/10/21	1/11/21	pH		Weekly during any discharge	5	7.30	7.57	8	6.5-8.5	No
		3/09/21	29/10/21	5/10/21	Salinity	ppt	Not required	-	0.39				
	Point 12 - Process Water Effluent quality monitoring	3/09/21	29/10/21	5/10/21	TSS	mg/L	Not required	-	n/a				
		3/09/21	29/10/21	5/10/21	O&G	mg/L	Monthly	1	<5			nil visual	No
		3/09/21	25/10/21	1/11/21	pH		Monthly	1	6.98			6.5-8.5	No
		3/09/21	29/10/21	5/10/21	Salinity	ppt	Not required	1	0.094				
		3/09/21	29/10/21	5/10/21	TDS	mg/L	Not required	1	81				
	Point 16 - Septic waste water Effluent quality monitoring	3/09/21	29/10/21	5/10/21	TSS	mg/L	Not required	1	83				
		3/09/21	29/10/21	5/10/21	BOD	mg/L	Monthly	1	6				
		3/09/21	29/10/21	5/10/21	FC	cfu/100mL	Monthly	1	<10				
		3/09/21	29/10/21	5/10/21	O&G	mg/L	Monthly	1	<3				
		3/09/21	29/10/21	5/10/21	TN	mg/L	Monthly	1	37				
		3/09/21	29/10/21	5/10/21	TDS	mg/L	Monthly	1	302				
3/09/21		29/10/21	5/10/21	TSS	mg/L	Not required	1	30					
3/09/21	29/10/21	5/10/21	TP	mg/L	Monthly	1	2.6						
Point 10 - Ambient air and weather monitoring station		17/11/21	18/11/21	NOx	ppb	Continuous	Cont.	0	5	59			
		17/11/21	18/11/21	O3	ppb	Continuous	Cont.	1	23	69			
	Point 13 - Air emissions monitoring		17/11/21	18/11/21	NOx	ppm	Continuous Max limit 2878 g/min (1hr rolling average)	Cont.	<2878 g/min			<2878 g/min	No



Feb-22	Point 11 - First Flush Effluent quality monitoring		4/03/22	14/03/22	O&G	mg/L	Weekly during discharge with No visible oil	10	Nil			nil visual	No
			11/03/22	14/03/22	pH		Weekly during any discharge	10	7.37	7.57	7.8	6.5-8.5	No
		1/02/22	3/03/22	14/03/22	Salinity	ppt	Not required	1	0.327				
		1/02/22	4/03/22	14/03/22	TSS	mg/L	Not required	1	6				
	Point 12 - Process Water Effluent quality monitoring	1/02/22	4/03/22	14/03/22	O&G	mg/L	Monthly	1	<5			nil visual	No
		1/02/22	3/03/22	14/03/22	pH		Monthly	1	7.19			6.5-8.5	No
		1/02/22	4/03/22	14/03/22	Salinity	ppt	Not required	1	0.124				
		1/02/22	4/03/22	14/03/22	TDS	mg/L	Not required	1	102				
		1/02/22	4/03/22	14/03/22	TSS	mg/L	Not required	1	18				
		1/02/22	4/03/22	14/03/22	BOD	mg/L	Monthly	1	<5				
	Point 16 - Septic waste water Effluent quality monitoring	1/02/22	4/03/22	14/03/22	FC	cfu/100mL	Monthly	1	<1				
		1/02/22	4/03/22	14/03/22	O&G	mg/L	Monthly	1	<3				
		1/02/22	4/03/22	14/03/22	TN	mg/L	Monthly	1	51				
1/02/22		4/03/22	14/03/22	TDS	mg/L	Monthly	1	435					
1/02/22		4/03/22	14/03/22	TSS	mg/L	Not required	1	11					
1/02/22		4/03/22	14/03/22	TP	mg/L	Monthly	1	13					
Mar-22	Point 10 - Ambient air and weather monitoring station		12/04/22	12/04/22	NOx	ppb	Continuous	Cont.	0	8	92		
			12/04/22	12/04/22	O3	ppb	Continuous	Cont.	0	14	54		
	Point 13 - Air emissions monitoring		12/04/22	12/04/22	NOx	ppm	Continuous Max limit 2878 g/min (1hr rolling average)	Cont.	<2878 g/min			<2878 g/min	No
	Point 11 - First Flush Effluent quality monitoring		29/03/22	31/03/22	O&G	mg/L	Weekly during discharge with No visible oil	10	n.a			nil visual	No
			3/04/22	5/04/22	pH		Weekly during any discharge	10	6.78	7.15	7.39	6.5-8.5	No
		1/03/22	29/03/22	31/03/22	Salinity	ppt	Not required	-	0.229				
		1/03/22	29/03/22	31/03/22	TSS	mg/L	Not required	-	2				
	Point 12 - Process Water Effluent quality monitoring	1/03/22	29/03/22	31/03/22	O&G	mg/L	Monthly	1	<5			nil visual	No
		1/03/22	3/04/22	5/04/22	pH		Monthly	1	7.23			6.5-8.5	No
		1/03/22	29/03/22	31/03/22	Salinity	ppt	Not required	1	0.133				
		1/03/22	29/03/22	31/03/22	TDS	mg/L	Not required	1	110				
	Point 16 - Septic waste water Effluent quality monitoring	1/03/22	29/03/22	31/03/22	TSS	mg/L	Not required	1	36				
		1/03/22	29/03/22	31/03/22	BOD	mg/L	Monthly	1	<5				
		1/03/22	29/03/22	31/03/22	FC	cfu/100mL	Monthly	1	<1				
		1/03/22	29/03/22	31/03/22	O&G	mg/L	Monthly	1	<3				
		1/03/22	29/03/22	31/03/22	TN	mg/L	Monthly	1	19				
		1/03/22	29/03/22	31/03/22	TDS	mg/L	Monthly	1	252				
1/03/22		29/03/22	31/03/22	TSS	mg/L	Not required	1	16					
Apr-22	Point 10 - Ambient air and weather monitoring station		12/05/22	16/05/22	NOx	ppb	Continuous	Cont.	0	6	74		
			12/05/22	16/05/22	O3	ppb	Continuous	Cont.	0	15	36		
	Point 13 - Air emissions monitoring		12/05/22	16/05/22	NOx	ppm	Continuous Max limit 2878 g/min (1hr rolling average)	Cont.	<2878 g/min			<2878 g/min	No
	Point 11 - First Flush Effluent quality monitoring		5/05/22	16/05/22	O&G	mg/L	Weekly during discharge with No visible oil	13	N/A			nil visual	No
			3/05/22	16/05/22	pH		Weekly during any discharge	13	6.91	7.27	7.8	6.5-8.5	No
		7/04/22	5/05/22	16/05/22	Salinity	ppt	Not required	-	0.138				
		7/04/22	5/05/22	16/05/22	TSS	mg/L	Not required	-	2				
	Point 12 - Process Water Effluent quality monitoring	7/04/22	5/05/22	16/05/22	O&G	mg/L	Monthly	1	<5			nil visual	No
		7/04/22	3/05/22	16/05/22	pH		Monthly	1	6.99			6.5-8.5	No
		7/04/22	5/05/22	16/05/22	Salinity	ppt	Not required	1	0.138				
		7/04/22	5/05/22	16/05/22	TDS	mg/L	Not required	1	120				
	Point 16 - Septic waste water Effluent quality monitoring	7/04/22	5/05/22	16/05/22	TSS	mg/L	Not required	1	6				
		7/04/22	5/05/22	16/05/22	BOD	mg/L	Monthly	1	<5				
		7/04/22	5/05/22	16/05/22	FC	cfu/100mL	Monthly	1	9200				
		7/04/22	5/05/22	16/05/22	O&G	mg/L	Monthly	1	<3				
		7/04/22	5/05/22	16/05/22	TN	mg/L	Monthly	1	40				
		7/04/22	5/05/22	16/05/22	TDS	mg/L	Monthly	1	206				
7/04/22		5/05/22	16/05/22	TSS	mg/L	Not required	1	61					
May-22	Point 10 - Ambient air and weather monitoring station		30/05/22	6/06/22	NOx	ppb	Continuous	Cont.	0	6	36		
			30/05/22	6/06/22	O3	ppb	Continuous	Cont.	0	15	28		
	Point 13 - Air emissions monitoring		30/05/22	6/06/22	NOx	ppm	Continuous Max limit 2878 g/min (1hr rolling average)	Cont.	<2878 g/min			<2878 g/min	No
	Point 11 - First Flush Effluent quality monitoring		30/05/22	6/06/22	O&G	mg/L	Weekly during discharge with No visible oil	8	N/A			nil visual	No
			3/06/22	6/06/22	pH		Weekly during any discharge	8	7.09	7.43	8.01	6.5-8.5	No
		3/05/22	20/05/22	30/05/22	Salinity	ppt	Not required	-	0.273				
		3/05/22	20/05/22	30/05/22	TSS	mg/L	Not required	-	4				
	Point 12 - Process Water Effluent quality monitoring	3/05/22	20/05/22	30/05/22	O&G	mg/L	Monthly	1	Nil			nil visual	No
		3/05/22	3/06/22	6/06/22	pH		Monthly	1	6.98			6.5-8.5	No
		3/05/22	20/05/22	30/05/22	Salinity	ppt	Not required	1	0.148				
		3/05/22	20/05/22	30/05/22	TDS	mg/L	Not required	1	123				
	Point 16 - Septic waste water Effluent quality monitoring	3/05/22	20/05/22	30/05/22	TSS	mg/L	Not required	1	11				
		3/05/22	20/05/22	30/05/22	BOD	mg/L	Monthly	1	<5				
		3/05/22	20/05/22	30/05/22	FC	cfu/100mL	Monthly	1	<1				
		3/05/22	20/05/22	30/05/22	O&G	mg/L	Monthly	1	<3				
		3/05/22	20/05/22	30/05/22	TN	mg/L	Monthly	1	50				
		3/05/22	20/05/22	30/05/22	TDS	mg/L	Monthly	1	356				
3/05/22		20/05/22	30/05/22	TSS	mg/L	Not required	1	18					
Point 10 - Ambient air and weather monitoring station		12/07/22	19/07/22	NOx	ppb	Continuous	Cont.	0	6	64			
		12/07/22	19/07/22	O3	ppb	Continuous	Cont.	0	18	30			

Jun-22	Point 13 - Air emissions monitoring		12/07/22	19/07/22	NOx	ppm	Continuous Max limit 2878 g/min (1hr rolling average)	Cont.	<2878 g/min			<2878 g/min	No
	Point 11 - First Flush Effluent quality monitoring		27/06/22	7/07/22	O&G	mg/L	Weekly during discharge with No visible oil	11	N/A			nil visual	No
			3/07/22	7/07/22	pH		Weekly during any discharge	11	7.31	7.46	7.65	6.5-8.5	No
		10/06/22	27/06/22	7/07/22	Salinity	ppt	Not required	-	0.341				
	Point 12 - Process Water Effluent quality monitoring	10/06/22	27/06/22	7/07/22	TSS	mg/L	Not required	-	20				
		10/06/22	27/06/22	7/07/22	O&G	mg/L	Monthly	1	<5			nil visual	No
		10/06/22	27/06/22	7/07/22	pH		Monthly	1	7.46			6.5-8.5	No
		10/06/22	27/06/22	7/07/22	Salinity	ppt	Not required	1	0.181				
		10/06/22	27/06/22	7/07/22	TDS	mg/L	Not required	1	154				
		10/06/22	27/06/22	7/07/22	TSS	mg/L	Not required	1	8				
		10/06/22	27/06/22	7/07/22	BOD	mg/L	Monthly	1	6				
	Point 16 - Septic waste water Effluent quality monitoring	10/06/22	27/06/22	7/07/22	FC	cfu/100mL	Monthly	1	<1				
		10/06/22	27/06/22	7/07/22	O&G	mg/L	Monthly	1	<3				
		10/06/22	27/06/22	7/07/22	TN	mg/L	Monthly	1	43				
		10/06/22	27/06/22	7/07/22	TDS	mg/L	Monthly	1	433				
		10/06/22	27/06/22	7/07/22	TSS	mg/L	Not required	1	10				
		10/06/22	27/06/22	7/07/22	TP	mg/L	Monthly	1	7.6				