



Applin Power Station
 Licence Number: 5482
 Licence Holder: EDL G&M (NSW) PTY LTD
 Licence Address: Applin Coal Seam Methane Power Station
 Northampton Dale Road Applin NSW 2560

Date: FY 2023-24

Frequency: Continuous monitoring for ambient NOx, CO3 (taken off site) and point source NO3 as 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), faecal coliforms (FC), total nitrogen (TN), total phosphorus (TP).

Month	Location of monitoring point	Sampled	Obtained	Published	Pollutant	Units	Monitoring frequency (during month)	Measurement during month	Min	Mean	Max	Licence limit	Exceedance (Yes/No)		
Jul-23	Point 13 - Air emissions monitoring	308/23	308/23	308/23	NOx	ppm	Continuous	Continuous	<2878	g/m ³	<2878	g/m ³	No		
	Point 11 - First Flush Effluent quality monitoring	308/23	308/23	308/23	O&G	mg/L	Weekly during discharge	30	Nil	Nil	Nil	Nil	visual	No	
		308/23	308/23	1108/23	pH	ppm	Weekly during any discharge	14	7.00	7.33	8.04	6.5-8.5	No		
		507/23	2307/23	2407/23	Salinity	ppm	Not required	1			0.151				
	Point 12 - Process Water Effluent quality monitoring	507/23	2307/23	2407/23	TSS	mg/L	Not required	1			2				
		507/23	2307/23	2407/23	O&G	mg/L	Not required	1			<5		Nil visual	No	
		507/23	2307/23	2407/23	pH	ppm	Monthly	1			7.44		6.5-8.5	No	
		507/23	2307/23	2407/23	Salinity	ppm	Not required	1			0.591				
		507/23	2307/23	2407/23	TDS	mg/L	Not required	1			78				
		507/23	2307/23	2407/23	TSS	mg/L	Not required	1			6				
		507/23	2307/23	2407/23	O&G	mg/L	Monthly	1			<5				
		507/23	2307/23	2407/23	BOD	mg/L	Monthly	1			<1				
		507/23	2307/23	2407/23	FC	cfu/100mL	Monthly	1			<1				
	Point 16 - Septic waste water Effluent quality monitoring	507/23	2307/23	2407/23	TN	mg/L	Monthly	1			52				
		507/23	2307/23	2407/23	TDS	mg/L	Monthly	1			471				
507/23		2307/23	2407/23	TSS	mg/L	Not required	1			60					
507/23		2307/23	2407/23	TP	mg/L	Monthly	1			15					
507/23		2307/23	2407/23	TP	mg/L	Monthly	1			15					
Aug-23	Point 13 - Air emissions monitoring	609/23	609/23	609/23	NOx	ppm	Continuous	Continuous	<2878	g/m ³	<2878	g/m ³	No		
	Point 11 - First Flush Effluent quality monitoring	309/23	409/23	409/23	O&G	visible	Weekly during discharge	31	Nil	Nil	Nil	Nil	visual	No	
		309/23	409/23	409/23	pH	ppm	Weekly during any discharge	31	6.55	7.06	7.68	6.5-8.5	No		
		309/23	409/23	409/23	Salinity	ppm	Not required	1			NA				
	Point 12 - Process Water Effluent quality monitoring	409/23	2108/23	2408/2023	O&G	visible	Weekly during discharge	1			<5		Nil visual	No	
		409/23	2108/23	2408/2024	pH	ppm	Monthly	1			7.44		6.5-8.5	No	
		409/23	2108/23	2408/2024	Salinity	ppm	Not required	1			0.164				
		409/23	2108/23	2408/2024	TSS	mg/L	Not required	1			89				
		409/23	2108/23	2408/2024	O&G	mg/L	Monthly	1			<5				
		409/23	2108/23	2408/2024	BOD	mg/L	Monthly	1			7				
		409/23	2108/23	2408/2024	FC	cfu/100mL	Monthly	1			<10				
		409/23	2108/23	2408/2024	TN	mg/L	Monthly	1			67				
		409/23	2108/23	2408/2024	TDS	mg/L	Monthly	1			573				
	Point 16 - Septic waste water Effluent quality monitoring	409/23	2108/23	2408/2023	TSS	mg/L	Not required	1			22				
		409/23	2108/23	2408/2024	TP	mg/L	Monthly	1			17				
910/23		1010-23	1010-23	NOx	ppm	Continuous	Continuous	Continuous	<2878	g/m ³	<2878	g/m ³	No		
Point 11 - First Flush Effluent quality monitoring		310/23	1010/23	1010/23	O&G	visible	Weekly during discharge	13	Nil	Nil	Nil	Nil	visual	No	
		310/23	1010/23	1010/23	pH	ppm	Weekly during discharge	13	8.61	7.08	7.39	6.5-8.5	No		
	1509/23	2609/23	2709/23	O&G	visible	Monthly	1			<5		Nil visual	No		
Point 12 - Process Water Effluent quality monitoring	1509/23	2609/23	2709/23	pH	ppm	Monthly	1			6.97		6.5-8.5	No		
	609/23	910/23	1010/23	BOD	mg/L	Monthly	1			10					
	609/23	1009/23	2709/23	FC	cfu/100mL	Monthly	1			60					
	609/23	910/23	1010/23	TN	mg/L	Monthly	1			86					
	609/23	910/23	1010/23	TDS	mg/L	Monthly	1			558					
Point 16 - Septic waste water Effluent quality monitoring	609/23	910/23	1010/23	TP	mg/L	Monthly	1			8.2					
	311/23	711/23	711/23	O&G	mg/L	Weekly during discharge	7			Nil		Nil	visual	No	
	311/23	711/23	711/23	pH	ppm	Weekly during discharge	7	8.55	7.57	8.34	6.5-8.5	No			
	410/23	2010/23	711/23	O&G	mg/L	Monthly	1			<5		Nil visual	No		
	410/23	2010/23	711/23	pH	ppm	Monthly	1			6.98		6.5-8.5	No		
	410/23	2010/23	711/23	BOD	mg/L	Monthly	1			8					
	410/23	2010/23	711/23	FC	cfu/100mL	Monthly	1			<100					
	410/23	2010/23	711/23	TN	mg/L	Monthly	1			25					
	410/23	2010/23	711/23	TDS	mg/L	Monthly	1			451					
Nov-23	Point 13 - Air emissions monitoring	1852/24	503/24	NOx	ppm	Continuous	Continuous	Continuous	<2878	g/m ³	<2878	g/m ³	No		
	Point 11 - First Flush Effluent quality monitoring	312/23	1112/23	O&G	mg/L	Weekly during discharge	9	Nil	Nil	Nil	Nil	Nil	visual	No	
		312/23	1112/23	1112/23	pH	ppm	Weekly during discharge	9	7.65	7.97	8.3	6.5-8.5	No		
		611/23	2111/23	1112/23	O&G	mg/L	Monthly	1			<5		Nil visual	No	
	Point 12 - Process Water Effluent quality monitoring	611/23	2111/23	1112/23	pH	ppm	Monthly	1			7.66		6.5-8.5	No	
		2011/23	412/23	1112/23	BOD	mg/L	Monthly	1			12				
		2011/23	2011/23	1112/23	FC	cfu/100mL	Monthly	1			330				
		2011/23	412/23	1112/23	TN	mg/L	Monthly	1			26				
		2011/23	412/23	1112/23	TDS	mg/L	Monthly	1			331				
		2011/23	412/23	1112/23	TP	mg/L	Monthly	1			8				
		1912/23	2112/23	NOx	ppm	Continuous	Continuous	Continuous	<2878	g/m ³	<2878	g/m ³	No		
		Point 11 - First Flush Effluent quality monitoring	301/24	801/24	O&G	mg/L	Weekly during discharge	17	Nil	Nil	Nil	Nil	Nil	visual	No
			301/24	801/24	801/24	pH	ppm	Weekly during discharge	17	7.04	7.65	8.2	6.5-8.5	No	
	412/23		2212/23	801/24	O&G	mg/L	Monthly	1			<5		Nil visual	No	
	Point 12 - Process Water Effluent quality monitoring	412/23	2212/23	801/24	pH	ppm	Monthly	1			7.20		6.5-8.5	No	
412/23		2212/23	801/24	BOD	mg/L	Monthly	1			<5					
412/23		2212/23	801/24	FC	cfu/100mL	Monthly	1			60					
412/23		2212/23	801/24	TN	mg/L	Monthly	1			57					
412/23		2212/23	801/24	TDS	mg/L	Monthly	1			338					
Jan-24	Point 13 - Air emissions monitoring	1251/24	2051/24	NOx	ppm	Continuous	Continuous	Continuous	<2878	g/m ³	<2878	g/m ³	No		
	Point 11 - First Flush Effluent quality monitoring	302/24	502/24	O&G	mg/L	Weekly during discharge	16	Nil	Nil	Nil	Nil	Nil	visual	No	
		302/24	502/24	502/24	pH	ppm	Weekly during discharge	16	7.00	7.8	8.23	6.5-8.5	No		
		1201/24	2001/24	502/24	O&G	mg/L	Monthly	1			<5		Nil visual	No	
	Point 12 - Process Water Effluent quality monitoring	1201/24	2001/24	502/24	pH	ppm	Monthly	1			6.82		6.5-8.5	No	
		1201/24	2001/24	502/24	BOD	mg/L	Monthly	1			8				
		1201/24	2001/24	502/24	FC	cfu/100mL	Monthly	1			<10				
		1201/24	2001/24	502/24	TN	mg/L	Monthly	1			47				
		1201/24	2001/24	502/24	TDS	mg/L	Monthly	1			365				
	Point 16 - Septic waste water Effluent quality monitoring	1201/24	2001/24	502/24	TP	mg/L	Monthly	1			8.5				
		2802/24	503/24	NOx	ppm	Continuous	Continuous	Continuous	<2878	g/m ³	<2878	g/m ³	No		
		303/24	503/24	O&G	mg/L	Weekly during discharge	14	Nil	Nil	Nil	Nil	Nil	visual	No	
		303/24	503/24	503/24	pH	ppm	Weekly during discharge	14	6.85	7.83	8.1	6.5-8.5	No		
		703/24	2003/24	503/24	O&G	mg/L	Monthly	1			<5		Nil visual	No	
		703/24	2003/24	503/24	pH	ppm	Monthly	1			6.95		6.5-8.5	No	
703/24		2003/24	503/24	BOD	mg/L	Monthly	1			<5					
703/24		1303/24	1503/24	FC	cfu/100mL	Monthly	1			<1					
703/24		2003/24	503/24	TDS	mg/L	Monthly	1			34					
Feb-24	Point 13 - Air emissions monitoring	703/24	2003/24	NOx	ppm	Continuous	Continuous	Continuous	<2878	g/m ³	<2878	g/m ³	No		
	Point 11 - First Flush Effluent quality monitoring	304/24	304/24	O&G	mg/L	Weekly during discharge	9	Nil	Nil	Nil	Nil	Nil	visual	No	
		304/24	304/24	304/24	pH	ppm	Weekly during discharge	9	6.98	7.34	8.2	6.5-8.5	No		
		803/24	2103/24	304/24	O&G	mg/L	Monthly	1			<5		Nil visual	No	
	Point 12 - Process Water Effluent quality monitoring	803/24	2103/24	304/24	pH	ppm	Monthly	1			6.80		6.5-8.5	No	
		803/24	2103/24	304/24	BOD	mg/L	Monthly	1			7				
		803/24	2103/24	304/24	FC	cfu/100mL	Monthly	1			<10				
		803/24	2103/24	304/24	TN	mg/L	Monthly	1			59				
		803/24	2103/24	304/24	TDS	mg/L	Monthly	1			73				
Apr-24	Point 13 - Air emissions monitoring	2404/24	404/24	NOx	ppm	Continuous	Continuous	Continuous	<2878	g/m ³	<2878	g/m ³	No		
	Point 11 - First Flush Effluent quality monitoring	305/24	505/24	O&G	mg/L	Weekly during discharge	9								