

Tower Power Station
Licence Number: 5357
Licence Holder: EDL CSM (NSW) PTY LTD
Licence Address: Douglas Park Drive
 Douglas Park NSW 2569
Dates: FY 2020-21



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);
Frequency: Spot sampling monthly for Process Water Effluent O&G, pH;
 Volume monitoring daily for waste water discharges.

Month	Location of monitoring point	Sampled	Obtained	Published	Pollutant	Units	Monitoring Frequency and Limit	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	Continuous	0	6	99			
			12/08/21	18/08/21	O3	ppb	Continuous	Continuous	0	17	30			
	Point 11 - Air emissions monitoring		12/07/21	23/07/21	NOx	ppm	Continuous with limit of 2132 g/min	Continuous with limit of 2132 g/min		< 2132 g/min		< 2132 g/min	No	
	Point 8 - First Flush Effluent quality monitoring		1/07/21	1/07/21	O&G	mg/L	Weekly during any discharge - no visible oil	Weekly during any discharge - no visible oil		Nil		nil visual		
			1/07/21	1/07/21	pH		Weekly during any discharge	Weekly during any discharge	7.03	7.58	8.32	6.5-8.5	No	
			n.a	n.a	n.a	TSS	mg/L	No requirement	No requirement	n/a				
	Point 9 - Process Water Effluent quality monitoring		n.a	n.a	n.a	Salinity	ppt	No requirement	No requirement	n/a				
			23/07/21	28/07/21	pH		Monthly	Monthly	7.34		6.5-8.5	No		
		12/07/21	23/07/21	28/07/21	O&G	mg/L	Monthly	Monthly	<5		nil visual			
		12/07/21	23/07/21	28/07/21	TDS	mg/L	No requirement	No requirement	144					
		12/07/21	23/07/21	28/07/21	TSS	mg/L	No requirement	No requirement	7					
		12/07/21	23/07/21	28/07/21	Salinity	ppt	No requirement	No requirement	0.168					
Aug-21	Point 10 - Ambient air and weather monitoring station		11/09/21	13/09/21	NOx	ppb	Continuous	Continuous	0	6	99			
			11/09/21	13/09/21	O3	ppb	Continuous	Continuous	0	17	30			
	Point 11 - Air emissions monitoring		27/08/21	13/09/21	NOx	ppm	Continuous with limit of 2132 g/min	Continuous		< 2132 g/min		< 2132 g/min	No	
	Point 8 - First Flush Effluent quality monitoring		6/09/21	10/09/21	O&G	mg/L	Weekly during any discharge - no visible oil	Weekly during any discharge - no visible oil	12	n/a		nil visual		
			6/09/21	10/09/21	pH		Weekly during any discharge	Weekly during any discharge	12	7.28	7.86	8.35	6.5-8.5	No
			n.a	n.a	n.a	TSS	mg/L	No requirement	No requirement	0				
	Point 9 - Process Water Effluent quality monitoring		n.a	n.a	n.a	Salinity	ppt	No requirement	No requirement	0				
			6/09/21	10/09/21	pH		Monthly	Monthly	1		7.94	6.5-8.5	No	
		4/08/21	19/08/21	25/08/21	O&G	mg/L	Monthly	Monthly	1		<5	nil visual		
		4/08/21	19/08/21	25/08/21	TDS	mg/L	No requirement	No requirement	1		131			
		4/08/21	19/08/21	25/08/21	TSS	mg/L	No requirement	No requirement	1		67			
		4/08/21	19/08/21	25/08/21	Salinity	ppt	No requirement	No requirement	1		0.156			
Sep-21	Point 10 - Ambient air and weather monitoring station		12/10/21	18/10/21	NOx	ppb	Continuous	Continuous	0	7	100			
			12/10/21	18/10/21	O3	ppb	Continuous	Continuous	2	22	44			
	Point 11 - Air emissions monitoring		25/10/21	1/11/21	NOx	ppm	Continuous with limit of 2132 g/min	Continuous		< 2132 g/min		< 2132 g/min	No	
	Point 8 - First Flush Effluent quality monitoring		25/10/21	1/11/21	O&G	mg/L	Weekly during any discharge - no visible oil	Weekly during any discharge - no visible oil	11	Nil		nil visual		
			25/10/21	1/11/21	pH		Weekly during any discharge	Weekly during any discharge	11	7.18	7.72	8.3	6.5-8.5	No
			3/09/21	29/09/21	29/09/21	TSS	mg/L	No requirement	No requirement	0		3		
	Point 9 - Process Water Effluent quality monitoring		3/09/21	29/09/21	29/09/21	Salinity	ppt	No requirement	No requirement	0		0.345		
			25/10/21	1/11/21	pH		Monthly	Monthly	1		7.19	6.5-8.5	No	
		3/09/21	29/09/21	29/09/21	O&G	mg/L	Monthly	Monthly	1		<5	nil visual		
		3/09/21	29/09/21	29/09/21	TDS	mg/L	No requirement	No requirement	1		105			
		3/09/21	29/09/21	29/09/21	TSS	mg/L	No requirement	No requirement	1		12			
		3/09/21	29/09/21	29/09/21	Salinity	ppt	No requirement	No requirement	1		0.124			
Oct-21	Point 10 - Ambient air and weather monitoring station		17/11/21	18/11/21	NOx	ppb	Continuous	Continuous	0	5	59			
			17/11/21	18/11/21	O3	ppb	Continuous	Continuous	1	23	69			
	Point 11 - Air emissions monitoring		17/11/21	18/11/21	NOx	ppm	Continuous with limit of 2132 g/min	Continuous		< 2132 g/min		< 2132 g/min	No	
	Point 8 - First Flush Effluent quality monitoring		6/11/21	12/11/21	O&G	mg/L	Weekly during any discharge - no visible oil	Weekly during any discharge - no visible oil	5	Nil		nil visual		
			6/11/21	12/11/21	pH		Weekly during any discharge	Weekly during any discharge	5	7.06	7.59	8.1	6.5-8.5	No
			n.a	n.a	n.a	TSS	mg/L	No requirement	No requirement	1		-		
	Point 9 - Process Water Effluent quality monitoring		n.a	n.a	n.a	Salinity	ppt	No requirement	No requirement	1		-		
			17/11/21	19/11/21	pH		Monthly	Monthly	1		7.26	6.5-8.5	No	
		8/10/22	25/10/21	1/11/21	O&G	mg/L	Monthly	Monthly	1		<5	nil visual		
		8/10/22	25/10/21	1/11/21	TDS	mg/L	No requirement	No requirement	1		1180			
		8/10/22	25/10/21	1/11/21	TSS	mg/L	No requirement	No requirement	1		27			
		8/10/22	25/10/21	1/11/21	Salinity	ppt	No requirement	No requirement	1		1.37			
Nov-21	Point 10 - Ambient air and weather monitoring station		10/12/21	14/12/21	NOx	ppb	Continuous	Continuous	0	6	59			
			10/12/21	14/12/21	O3	ppb	Continuous	Continuous	3	19	48			
	Point 11 - Air emissions monitoring		10/12/21	14/12/21	NOx	ppm	Continuous with limit of 2132 g/min	Continuous		< 2132 g/min		< 2132 g/min	No	
	Point 8 - First Flush Effluent quality monitoring		n.a	n.a	O&G	mg/L	Weekly during any discharge - no visible oil	Weekly during any discharge - no visible oil	15	Nil		nil visual		
			3/12/21	14/12/21	pH		Weekly during any discharge	Weekly during any discharge	15	6.85	7.58	8.33	6.5-8.5	No
			n.a	n.a	n.a	TSS	mg/L	No requirement	No requirement	1		-		
	Point 9 - Process Water Effluent quality monitoring		n.a	n.a	n.a	Salinity	ppt	No requirement	No requirement	1		-		
			3/12/21	14/12/21	pH		Monthly	Monthly	1		7.48	6.5-8.5	No	
		3/11/21	17/11/21	19/11/21	O&G	mg/L	Monthly	Monthly	1		<5	nil visual		
		3/11/21	17/11/21	19/11/21	TDS	mg/L	No requirement	No requirement	1		124			
		3/11/21	17/11/21	19/11/21	TSS	mg/L	No requirement	No requirement	1		13			
		3/11/21	17/11/21	19/11/21	Salinity	ppt	No requirement	No requirement	1		0.143			
Dec-21	Point 10 - Ambient air and weather monitoring station		12/01/22	31/01/22	NOx	ppb	Continuous	Continuous	0	7	78			
			12/01/22	31/01/22	O3	ppb	Continuous	Continuous	1	18	73			
	Point 11 - Air emissions monitoring		7/01/22	31/01/22	NOx	ppm	Continuous with limit of 2132 g/min	Continuous		<2132 g/min		< 2132 g/min	No	
	Point 8 - First Flush Effluent quality monitoring		19/01/22	31/01/22	O&G	mg/L	Weekly during any discharge - no visible oil	Weekly during any discharge - no visible oil	12	Nil		nil visual		
			19/01/22	31/01/22	pH		Weekly during any discharge	Weekly during any discharge	12	7.02	7.34	7.99	6.5-8.5	No
			n.a	n.a	n.a	TSS	mg/L	No requirement	No requirement	1		n/a		
	Point 9 - Process Water Effluent quality monitoring		n.a	n.a	n.a	Salinity	ppt	No requirement	No requirement	1		n/a		
			19/01/22	31/01/22	pH		Monthly	Monthly	1		7.01	6.5-8.5	No	
		3/12/21	21/12/21	7/01/22	O&G	mg/L	Monthly	Monthly	1		<5	nil visual		
		3/12/21	21/12/21	7/01/22	TDS	mg/L	No requirement	No requirement	1		113			
		3/12/21	21/12/21	7/01/22	TSS	mg/L	No requirement	No requirement	1		7			
		3/12/21	21/12/21	7/01/22	Salinity	ppt	No requirement	No requirement	1		0.133			
Jan-22	Point 10 - Ambient air and weather monitoring station		12/01/22	31/01/22	NOx	ppb	Continuous	Continuous	0	7	78			
			12/01/22	31/01/22	O3	ppb	Continuous	Continuous	1	18	73			
	Point 11 - Air emissions monitoring		7/01/22	31/01/22	NOx	ppm	Continuous with limit of 2132 g/min	Continuous		<2132 g/min		< 2132 g/min	No	
	Point 8 - First Flush Effluent quality monitoring		19/01/22	31/01/22	O&G	mg/L	Weekly during any discharge - no visible oil	Weekly during any discharge - no visible oil	12	Nil		nil visual	No	
			3/02/22	4/02/22	pH		Weekly during any discharge	Weekly during any discharge	14	7.11	7.65	8.22	6.5-8.5	No
			n.a	n.a	n.a	TSS	mg/L	No requirement	No requirement	0		-		
	Point 9 - Process Water Effluent quality monitoring		n.a	n.a	n.a	Salinity	ppt	No requirement	No requirement	0		-		
			3/02/22	4/02/22	pH		Monthly	Monthly	1		6.91	6.5-8.5	Yes	
		14/01/22	28/01/22	31/01/22	O&G	mg/L	Monthly	Monthly	1		Nil	nil visual	No	
		14/01/22	28/01/22	31/01/22	TDS	mg/L	No requirement	No requirement	1		67			

First flush was empty during sampling

		14/01/22	28/01/22	31/01/22	TSS	mg/L	No requirement	1	9						
		14/01/22	28/01/22	31/01/22	Salinity	ppt	No requirement	1	0.077						
Feb-22	Point 10 - Ambient air and weather monitoring station		11/03/22	14/03/22	NOx	ppb	Continuous	Continuous	0	9	61				
			11/03/22	14/03/22	O3	ppb	Continuous	Continuous	0	14	46				
	Point 11 - Air emissions monitoring		11/03/22	14/03/22	NOx	ppm	Continuous with limit of 2132 g/min	Continuous	<2878 g/min			< 2132 g/min	No		
	Point 8 - First Flush Effluent quality monitoring			4/03/22	10/03/22	O&G	mg/L	Weekly during any discharge - no visible oil	16	Nil			nil visual	No	
				3/03/22	10/03/22	pH		Weekly during any discharge	16	7.19	7.67	8.3	6.5-8.5	No	
				1/02/22	4/03/22	10/03/22	TSS	mg/L	No requirement	0	12				
	Point 9 - Process Water Effluent quality monitoring			1/02/22	4/03/22	10/03/22	Salinity	ppt	No requirement	0	0.254				
				4/03/22	10/03/22	pH		Monthly	1	6.99			6.5-8.5	No	
				1/02/22	4/03/22	10/03/22	O&G	mg/L	Monthly	1	<5			nil visual	No
				1/02/22	4/03/22	10/03/22	TDS	mg/L	No requirement	1	192				
			1/02/22	4/03/22	10/03/22	TSS	mg/L	No requirement	1	11					
			1/02/22	4/03/22	10/03/22	Salinity	ppt	No requirement	1	0.228					
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 11 - Air emissions monitoring		12/04/22	12/04/22	NOx	ppm	Continuous with limit of 2132 g/min	Continuous	< 2132 g/min			< 2132 g/min	No		
	Point 8 - First Flush Effluent quality monitoring			29/03/22	31/03/22	O&G	mg/L	Weekly during any discharge - no visible oil	19	Nil			nil visual	No	
				3/04/22	5/04/22	pH		Weekly during any discharge	19	6.96	7.49	8.2	6.5-8.5	No	
				1/03/22	29/03/22	31/03/22	TSS	mg/L	No requirement	0	2				
	Point 9 - Process Water Effluent quality monitoring			1/03/22	29/03/22	31/03/22	Salinity	ppt	No requirement	0	0.059				
				3/04/22	5/04/22	pH		Monthly	1	6.85			6.5-8.5	No	
				1/03/22	29/03/22	31/03/22	O&G	mg/L	Monthly	1	<5			nil visual	No
				1/03/22	29/03/22	31/03/22	TDS	mg/L	No requirement	1	104				
			1/03/22	29/03/22	31/03/22	TSS	mg/L	No requirement	1	8					
			1/03/22	29/03/22	31/03/22	Salinity	ppt	No requirement	1	0.123					
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 11 - Air emissions monitoring		12/04/22	12/04/22	NOx	ppm	Continuous with limit of 2132 g/min	Continuous	< 2132 g/min			< 2132 g/min	No		
	Point 8 - First Flush Effluent quality monitoring			5/05/22	16/05/22	O&G	mg/L	Weekly during any discharge - no visible oil	13	Nil			nil visual	No	
				3/05/22	16/05/22	pH		Weekly during any discharge	13	7.1	7.76	8.41	6.5-8.5	No	
				7/04/22	5/05/22	16/05/22	TSS	mg/L	No requirement	0	3				
	Point 9 - Process Water Effluent quality monitoring			7/04/22	5/05/22	16/05/22	Salinity	ppt	No requirement	0	0.027				
				3/05/22	16/05/22	pH		Monthly	1	7.03			6.5-8.5	No	
				7/04/22	5/05/22	16/05/22	O&G	mg/L	Monthly	1	<5			nil visual	No
				7/04/22	5/05/22	16/05/22	TDS	mg/L	No requirement	1	105				
			7/04/22	5/05/22	16/05/22	TSS	mg/L	No requirement	1	4					
			7/04/22	5/05/22	16/05/22	Salinity	ppt	No requirement	1	0.121					
May-22	Point 10 - Ambient air and weather monitoring station		30/05/22	6/06/22	NOx	ppb	Continuous	Cont.	0	6	114				
			30/05/22	6/06/22	O3	ppb	Continuous	Cont.	-1	18	73				
	Point 11 - Air emissions monitoring		30/05/22	6/06/22	NOx	ppm	Continuous with limit of 2132 g/min	Continuous	< 2132 g/min			< 2132 g/min	No		
	Point 8 - First Flush Effluent quality monitoring			6/06/22	6/06/22	O&G	mg/L	Weekly during any discharge - no visible oil	13	Nil			nil visual	No	
				3/06/22	6/06/22	pH		Weekly during any discharge	13	7.11	7.61	8.3	6.5-8.5	No	
				3/05/22	6/06/22	6/06/22	TSS	mg/L	No requirement	1	-				
	Point 9 - Process Water Effluent quality monitoring			3/05/22	6/06/22	6/06/22	Salinity	ppt	No requirement	1	-				
				3/05/22	6/06/22	15/06/22	pH		Monthly	1	9.54			6.5-8.5	Yes
				3/05/22	6/06/22	15/06/22	O&G	mg/L	Monthly	1	<5			nil visual	No
				3/05/22	6/06/22	15/06/22	TDS	mg/L	No requirement	1	136				
			3/05/22	6/06/22	15/06/22	TSS	mg/L	No requirement	1	8					
			3/05/22	6/06/22	15/06/22	Salinity	ppt	No requirement	1	0.159					
Jun-22	Point 10 - Ambient air and weather monitoring station				NOx	ppb	Continuous	Continuous							
					O3	ppb	Continuous	Continuous							
	Point 11 - Air emissions monitoring				NOx	ppm	Continuous with limit of 2132 g/min	Continuous	< 2132 g/min			< 2132 g/min	No		
	Point 8 - First Flush Effluent quality monitoring					O&G	mg/L	Weekly during any discharge - no visible oil	10				nil visual	No	
						pH		Weekly during any discharge	10				6.5-8.5	No	
						TSS	mg/L	No requirement	1						
	Point 9 - Process Water Effluent quality monitoring					Salinity	ppt	No requirement	1						
						pH		Monthly	12				6.5-8.5	No	
						O&G	mg/L	Monthly	32				nil visual	No	
						TDS	mg/L	No requirement	1						
					TSS	mg/L	No requirement	1							
					Salinity	ppt	No requirement	1							

First flush was empty during sampling

Investigation conducted into increased pH of Process Water. Fouled probe identified as causing automatic dosing system to incorrectly dose. No environmental harm observed. ICAM investigation in progress. Exceedance to be reported in the 2022-2023 Tower EPA Annual Return.

Change Log
Date

15/06/2022

Change

Point 9 pH records amended to monthly laboratory results as required in EPL.