



Tower Power Station

Licence Number: 5357

Licence Holder: EDL CSM (NSW) PTY LTD

Licensee 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;

Frequency: Spot sampling weekly during discharge for First Flush pH and, visible oil and grease (O&G);

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-20	Point 10 - Ambient air and weather monitoring station		31/08/20	2/09/20	NOx	ppb	Continuous	Continuous	0	7	73		
			31/08/20	2/09/20	O3	ppb	Continuous	Continuous	0	18	33		
	Point 11 - Air emissions monitoring		5/08/20	10/08/20	NOx	ppm measured as g/min	Continuous with limit of 2132 g/min	Continuous	< 2132 g/min			< 2132 g/min	No
	Point 8 - First Flush Effluent quality monitoring		5/08/20	10/08/20	O&G	mg/L	Weekly during any discharge - No visible oil	11	None visible				
			5/08/20	10/08/20	pH		Weekly during any discharge	11	7.22	7.59	8.14		
	Point 9 - Process Water Effluent quality monitoring	7/07/20	22/07/20	10/08/20	TSS	mg/L	No requirement	0	-				
		7/07/20	22/07/20	10/08/20	Salinity	ppt	No requirement	0	-				
		7/07/20	22/07/20	10/08/20	pH		Monthly	1	7.22				
		7/07/20	22/07/20	10/08/20	O&G	mg/L	Monthly	1	<5				
		7/07/20	22/07/20	10/08/20	TDS	mg/L	No requirement	1	101				
		7/07/20	22/07/20	10/08/20	TSS	mg/L	No requirement	1	9				
		22/07/20	22/07/20	10/08/20	Salinity	ppt	No requirement	1	0.122				
Aug-20	Point 10 - Ambient air and weather monitoring station		11/09/20	28/09/20	NOx	ppb	Continuous	Continuous	0	2	29		
			11/09/20	28/09/20	O3	ppb	Continuous	Continuous	-2	20	42		
	Point 11 - Air emissions monitoring		23/09/20	28/09/20	NOx	ppm	Continuous with limit of 2132 g/min	Continuous	<2132 g/min			< 2132 g/min	No
	Point 8 - First Flush Effluent quality monitoring		3/09/20	3/09/20	O&G	mg/L	Weekly during any discharge - no visible oil	12	None visible				
			3/09/20	3/09/20	pH		Weekly during any discharge	12	7.6	8.07	8.43		
	Point 9 - Process Water Effluent quality monitoring	5/08/20	1/09/20	2/09/20	TSS	mg/L	No requirement	0	-				
		5/08/20	1/09/20	2/09/20	Salinity	ppt	No requirement	0	-				
		5/08/20	1/09/20	2/09/20	pH		Monthly	1	7.33				
		5/08/20	1/09/20	2/09/20	O&G	mg/L	Monthly	1	< 5				
		5/08/20	1/09/20	2/09/20	TDS	mg/L	No requirement	1	123				
		5/08/20	1/09/20	2/09/20	TSS	mg/L	No requirement	1	13				
		5/08/20	1/09/20	2/09/20	Salinity	ppt	No requirement	1	0.146				
Sep-20	Point 10 - Ambient air and weather monitoring station		12/10/20	15/10/20	NOx	ppb	Continuous	Continuous	-1	6	66		
			12/10/20	15/10/20	O3	ppb	Continuous	Continuous	2	21	46		
	Point 11 - Air emissions monitoring		2/10/20	15/10/20	NOx	ppm	Continuous with limit of 2132 g/min	Continuous	<2132 g/min			< 2132 g/min	No
	Point 8 - First Flush Effluent quality monitoring		1/10/20	15/10/20	O&G	mg/L	Weekly during any discharge - no visible oil	11	nil				
			1/10/20	15/10/20	pH		Weekly during any discharge	11	7.58	7.95	8.26		
	Point 9 - Process Water Effluent quality monitoring	2/09/20	21/09/20	28/09/20	TSS	mg/L	No requirement	0	-				
		2/09/20	21/09/20	28/09/20	Salinity	ppt	No requirement	0	-				
		2/09/20	21/09/20	28/09/20	pH		Monthly	1	7.67				
		2/09/20	21/09/20	28/09/20	O&G	mg/L	Monthly	1	<5				
		2/09/20	21/09/20	28/09/20	TDS	mg/L	No requirement	1	5				
		2/09/20	21/09/20	28/09/20	TSS	mg/L	No requirement	1	5				
		2/09/20	21/09/20	28/09/20	Salinity	ppt	No requirement	1	0.161				
Oct-20	Point 10 - Ambient air and weather monitoring station		12/11/20	16/11/20	NOx	ppb	Continuous	Continuous	1	8	76		
			12/11/20	16/11/20	O3	ppb	Continuous	Continuous	4	23	66		
	Point 11 - Air emissions monitoring		13/11/20	16/11/20	NOx	ppm	Continuous with limit of 2132 g/min	Continuous	<2132 g/min			< 2132 g/min	No
	Point 8 - First Flush Effluent quality monitoring		5/11/20	16/11/20	O&G	mg/L	Weekly during any discharge - no visible oil	5	nil				
			5/11/20	16/11/20	pH		Weekly during any discharge	5	7.4	7.96	8.39		
	Point 9 - Process Water Effluent quality monitoring	8/10/20	6/11/20	16/11/20	TSS	mg/L	No requirement	1	10				
		8/10/20	6/11/20	16/11/20	Salinity	ppt	No requirement	1	0.177				
		8/10/20	6/11/20	16/11/20	pH		Monthly	1	7.35				
		8/10/20	6/11/20	16/11/20	O&G	mg/L	Monthly	1	<5				
		8/10/20	6/11/20	16/11/20	TDS	mg/L	No requirement	1	168				
		8/10/20	6/11/20	16/11/20	TSS	mg/L	No requirement	1	14				
		8/10/20	6/11/20	16/11/20	Salinity	ppt	No requirement	1	0.2				
Nov-20	Point 10 - Ambient air and weather monitoring station		11/12/20	15/12/20	NOx	ppb	Continuous	Continuous	0	6	86		
			11/12/20	15/12/20	O3	ppb	Continuous	Continuous	1	21	74		
	Point 11 - Air emissions monitoring		15/12/20	15/12/20	NOx	ppm	Continuous with limit of 2132 g/min	Continuous	<2132 g/min			< 2132 g/min	No
	Point 8 - First Flush Effluent quality monitoring		4/12/20	15/12/20	O&G	mg/L	Weekly during any discharge - no visible oil	15	Nil				
			4/12/20	15/12/20	pH		Weekly during any discharge	15	7.17	7.88	8.43		
	Point 9 - Process Water Effluent quality monitoring	4/11/20	16/11/20	1/12/20	TSS	mg/L	No requirement	1	13				
		4/11/20	16/11/20	1/12/20	Salinity	ppt	No requirement	1	0.269				
		4/11/20	16/11/20	1/12/20	pH		Monthly	1	7.31				
		4/11/20	16/11/20	1/12/20	O&G	mg/L	Monthly	1	<5				
		4/11/20	16/11/20	1/12/20	TDS	mg/L	No requirement	1	104				
		4/11/20	16/11/20	1/12/20	TSS	mg/L	No requirement	1	9				
		4/11/20	16/11/20	1/12/20	Salinity	ppt	No requirement	1	0.127				

First flush was empty during sampling

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Dec-20	Point 10 - Ambient air and weather monitoring station	12/01/21	12/01/21	NOx	ppb	Continuous	Continuous	0	6	56			
		12/01/21	12/01/21	O3	ppb	Continuous	Continuous	1	17	60			
	Point 11 - Air emissions monitoring	15/12/20	15/12/20	NOx	ppm	Continuous with limit of 2132 g/min	Continuous	<2132 g/min			< 2132 g/min	No	
	Point 8 - First Flush Effluent quality monitoring	4/01/20	12/01/21	O&G	mg/L	Weekly during any discharge - no visible oil	12	nil					
		4/01/20	12/01/21	pH		Weekly during any discharge	12	7.26	7.81	8.3			
		2/12/20	14/12/20	15/12/20	TSS	mg/L	No requirement	1	10				
		2/12/20	14/12/20	15/12/20	Salinity	ppt	No requirement	1	0.337				
		2/12/20	14/12/20	15/12/20	pH		Monthly	1	6.76				
	Point 9 - Process Water Effluent quality monitoring	2/12/20	14/12/20	15/12/20	O&G	mg/L	Monthly	1	<5				
		2/12/20	14/12/20	15/12/20	TDS	mg/L	No requirement	1	97				
2/12/20		14/12/20	15/12/20	TSS	mg/L	No requirement	1	9					
2/12/20		14/12/20	15/12/20	Salinity	ppt	No requirement	1	0.116					
Jan-21	Point 10 - Ambient air and weather monitoring station	12/02/21	16/02/21	NOx	ppb	Continuous	Continuous	0	6	41			
		12/02/21	16/02/21	O3	ppb	Continuous	Continuous	0	19	92			
	Point 11 - Air emissions monitoring	12/02/21	16/02/21	NOx	ppm	Continuous with limit of 2132 g/min	Continuous	<2132 g/min			< 2132 g/min	No	
	Point 8 - First Flush Effluent quality monitoring	12/02/21	16/02/21	O&G	mg/L	Weekly during any discharge - no visible oil	14	nil			nil visual	No	
		12/02/21	16/02/21	pH		Weekly during any discharge	14	7.44	8	8.32	6.5-8.5	No	
	Point 9 - Process Water Effluent quality monitoring	15/01/21	2/02/21	16/02/21	TSS	mg/L	No requirement	0	-				
		15/01/21	2/02/21	16/02/21	Salinity	ppt	No requirement	0	-				
		15/01/21	2/02/21	16/02/21	pH		Monthly	1	11.74			6.5-8.5	Yes
		15/01/21	2/02/21	16/02/21	O&G	mg/L	Monthly	1	<5			nil visual	No
		15/01/21	2/02/21	16/02/21	TDS	mg/L	No requirement	1	812				
15/01/21		2/02/21	16/02/21	TSS	mg/L	No requirement	1	9					
15/01/21		2/02/21	16/02/21	Salinity	ppt	No requirement	1	0.93					
Feb-21	Point 10 - Ambient air and weather monitoring station	12/03/21	15/03/21	NOx	ppb	Continuous	Continuous	0	6	49			
		12/03/21	15/03/21	O3	ppb	Continuous	Continuous	1	15	57			
	Point 11 - Air emissions monitoring	5/03/21	15/03/21	NOx	ppm	Continuous with limit of 2132 g/min	Continuous	<2132 g/min			< 2132 g/min	No	
	Point 8 - First Flush Effluent quality monitoring	5/03/21	15/03/21	O&G	mg/L	Weekly during any discharge - no visible oil	16	nil			nil visual	No	
		5/03/21	15/03/21	pH		Weekly during any discharge	16	7.18	7.78	8.45	6.5-8.5	No	
	Point 9 - Process Water Effluent quality monitoring	3/02/21	17/02/21	2/03/21	TSS	mg/L	No requirement	0	-				
		3/02/21	17/02/21	2/03/21	Salinity	ppt	No requirement	0	-				
		3/02/21	17/02/21	2/03/21	pH		Monthly	1	7.28			6.5-8.5	No
		3/02/21	17/02/21	2/03/21	O&G	mg/L	Monthly	1	<5			nil visual	No
		3/02/21	17/02/21	2/03/21	TDS	mg/L	No requirement	1	125				
3/02/21		17/02/21	2/03/21	TSS	mg/L	No requirement	1	6					
3/02/21	17/02/21	2/03/21	Salinity	ppt	No requirement	1	0.15						
Mar-21	Point 10 - Ambient air and weather monitoring station	12/04/21	13/04/21	NOx	ppb	Continuous	Continuous	0	5	56			
		12/04/21	13/04/21	O3	ppb	Continuous	Continuous	0	17	45			
	Point 11 - Air emissions monitoring	6/04/21	7/04/21	NOx	ppm	Continuous with limit of 2132 g/min	Continuous	<2132 g/min			< 2132 g/min	No	
	Point 8 - First Flush Effluent quality monitoring	6/04/21	7/04/21	O&G	mg/L	Weekly during any discharge - no visible oil	19	nil			nil visual	No	
		6/04/21	7/04/21	pH		Weekly during any discharge	19	7.16	7.78	8.39	6.5-8.5	No	
	Point 9 - Process Water Effluent quality monitoring	3/03/21	19/02/21	7/04/21	TSS	mg/L	No requirement	0	-				
		3/03/21	19/02/21	7/04/21	Salinity	ppt	No requirement	0	-				
		3/03/21	19/02/21	7/04/21	pH		Monthly	1	7.84			6.5-8.5	No
		3/03/21	19/02/21	7/04/21	O&G	mg/L	Monthly	1	<5			nil visual	No
		3/03/21	19/02/21	7/04/21	TDS	mg/L	No requirement	1	137				
3/03/21		19/02/21	7/04/21	TSS	mg/L	No requirement	1	9					
3/03/21	19/02/21	7/04/21	Salinity	ppt	No requirement	1	0.166						

Note: Licence amended in January 2021 to include licence limits for pH and Oil and Grease

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. Exceedance to be reported in the 2020-2021 Tower EPA Annual Return.

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