

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



Dates: FY 2019-20

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	Exceedance (Yes/No)	
Jul-19	Point 10 - Ambient air and weather monitoring station		12/08/19	15/08/19	NOx	ppb	Continuous	Continuous	1	14	229		
			12/08/19	15/08/19	O3	ppb	Continuous	Continuous	-1	20	34		
	Point 11 - Air emissions monitoring		31/07/19	9/08/19	NOx	ppm	Continuous with limit of 2132 g/min	Continuous	<2132g/min			No	
	Point 8 - First Flush Effluent quality monitoring		8/08/19	9/08/19	O&G	mg/L	Weekly during any discharge	5	Nil				
			8/08/19	9/08/19	pH		Weekly during any discharge	5	7.1	7.46	8.1		
				9/08/19	TSS	mg/L	No requirement	0					
	Point 9 - Process Water Effluent quality monitoring			9/08/19	Salinity	ppt	No requirement	0					
			3/07/19	23/07/19	9/08/19	O&G	mg/L	Monthly	1	<5			
			3/07/19	23/07/19	9/08/19	pH		Monthly	1	7.41			
			3/07/19	23/07/19	9/08/19	TDS	mg/L	No requirement	1	162			
			3/07/19	23/07/19	9/08/19	TSS	mg/L	No requirement	1	10			
			3/07/19	23/07/19	9/08/19	Salinity	ppt	No requirement	1	0.194			
Aug-19	Point 10 - Ambient air and weather monitoring station		12/09/19	18/09/19	NOx	ppb	Continuous	Continuous	0	16	454		
			12/09/19	18/09/19	O3	ppb	Continuous	Continuous	-4	21	36		
	Point 11 - Air emissions monitoring		3/09/19	10/09/19	NOx	ppm	Continuous with limit of 2132 g/min	Continuous	<2132g/min			No	
	Point 8 - First Flush Effluent quality monitoring		5/09/19	10/09/19	O&G	mg/L	Weekly during any discharge	4	Nil				
			5/09/19	10/09/19	pH		Weekly during any discharge	4	7.02	7.49	7.71		
			5/08/19	22/08/19	10/09/19	TSS	mg/L	No requirement	0				
	Point 9 - Process Water Effluent quality monitoring		5/08/19	22/08/19	10/09/19	Salinity	ppt	No requirement	0				
			5/08/19	22/08/19	10/09/19	O&G	mg/L	Monthly	1	<5			
			5/08/19	22/08/19	10/09/19	pH		Monthly	1	7.53			
			5/08/19	22/08/19	10/09/19	TDS	mg/L	No requirement	1	106			
			5/08/19	22/08/19	10/09/19	TSS	mg/L	No requirement	1	6			
			5/08/19	22/08/19	10/09/19	Salinity	ppt	No requirement	1	0.128			
Sep-19	Point 10 - Ambient air and weather monitoring station		11/10/19	18/10/19	NOx	ppb	Continuous	Continuous	0	10	169		
			11/10/19	18/10/19	O3	ppb	Continuous	Continuous	5	23	44		
	Point 11 - Air emissions monitoring		11/10/19	18/10/19	NOx	ppm	Continuous with limit of 2132 g/min	Continuous	< 2132 g/min			No	
	Point 8 - First Flush Effluent quality monitoring		30/09/19	11/10/19	O&G	mg/L	Weekly during any discharge	9	Nil				
			30/09/19	11/10/19	pH		Weekly during any discharge	9	7.04	7.48	7.68		
			3/09/19	3/10/19	11/10/19	TSS	mg/L	No requirement	0				
	Point 9 - Process Water Effluent quality monitoring		3/09/19	3/10/19	11/10/19	Salinity	ppt	No requirement	0				
			3/09/19	3/10/19	11/10/19	O&G	mg/L	Monthly	1	<5			
			3/09/19	3/10/19	11/10/19	pH		Monthly	1	9.28			
			3/09/19	3/10/19	11/10/19	TDS	mg/L	No requirement	1	179			
			3/09/19	3/10/19	11/10/19	TSS	mg/L	No requirement	1	4			
			3/09/19	3/10/19	11/10/19	Salinity	ppt	No requirement	1	0.211			
Oct-19	Point 10 - Ambient air and weather monitoring station		13/11/19	18/11/19	NOx	ppb	Continuous	Continuous	0	9	165		
			13/11/19	18/11/19	O3	ppb	Continuous	Continuous	2	25	78		
	Point 11 - Air emissions monitoring		30/10/19	18/11/19	NOx	ppm	Continuous with limit of 2132 g/min	Continuous	< 2132 g/min			No	
	Point 8 - First Flush Effluent quality monitoring		7/11/19	7/11/19	O&G	mg/L	Weekly during any discharge	15	Nil				
			7/11/19	7/11/19	pH		Weekly during any discharge	15	7.02	7.51	7.81		
			2/10/19	29/10/19	7/11/19	TSS	mg/L	No requirement	0				
	Point 9 - Process Water Effluent quality monitoring		2/10/19	29/10/19	7/11/19	Salinity	ppt	No requirement	0				
			2/10/19	29/10/19	7/11/19	O&G	mg/L	Monthly	1	<5			
			2/10/19	29/10/19	7/11/19	pH		Monthly	1	7.69			
			2/10/19	29/10/19	7/11/19	TDS	mg/L	No requirement	1	119			
			2/10/19	29/10/19	7/11/19	TSS	mg/L	No requirement	1	8			
			2/10/19	29/10/19	7/11/19	Salinity	ppt	No requirement	1	0.143			
Nov-19	Point 10 - Ambient air and weather monitoring station		12/12/19	20/12/19	NOx	ppb	Continuous	Continuous	1	7	91		
			12/12/19	20/12/19	O3	ppb	Continuous	Continuous	1	27	122		
	Point 11 - Air emissions monitoring		12/12/19	20/12/19	NOx	ppm	Continuous with limit of 2132 g/min	Continuous	< 2132 g/min			No	
	Point 8 - First Flush Effluent quality monitoring		3/12/19	11/12/19	O&G	mg/L	Weekly during any discharge	9	Nil				
			3/12/19	11/12/19	pH		Weekly during any discharge	2	7.11	7.12	7.12		
			4/11/19	2/11/19	11/12/19	TSS	mg/L	No requirement	0	8			
	Point 9 - Process Water Effluent quality monitoring		4/11/19	2/11/19	11/12/19	Salinity	ppt	No requirement	0	0.144			
			4/11/19	2/11/19	11/12/19	O&G	mg/L	Monthly	1	<5			
			4/11/19	2/11/19	11/12/19	pH		Monthly	1	7.34			
			4/11/19	2/11/19	11/12/19	TDS	mg/L	No requirement	1	191			
			4/11/19	2/11/19	11/12/19	TSS	mg/L	No requirement	1	14			
			4/11/19	2/11/19	11/12/19	Salinity	ppt	No requirement	1	0.225			
Dec-19	Point 10 - Ambient air and weather monitoring station		10/01/20	15/01/20	NOx	ppb	Continuous	Continuous	1	9	83		
			10/01/20	15/01/20	O3	ppb	Continuous	Continuous	< LDL	27	120		
	Point 11 - Air emissions monitoring		6/01/20	15/01/20	NOx	ppm	Continuous with limit of 2132 g/min	Continuous	< 2132 g/min			No	
	Point 8 - First Flush Effluent quality monitoring		20/01/20	20/01/20	O&G	mg/L	Weekly during any discharge	0					
			20/01/20	20/01/20	pH		Weekly during any discharge	0	-	-	-		
			3/12/19	23/12/19	15/01/20	TSS	mg/L	No requirement	0				
	Point 9 - Process Water Effluent quality monitoring		3/12/19	23/12/19	15/01/20	Salinity	ppt	No requirement	0				
			3/12/19	23/12/19	15/01/20	O&G	mg/L	Monthly	1	<5			
			3/12/19	23/12/19	15/01/20	pH		Monthly	1	7.54			
			3/12/19	23/12/19	15/01/20	TDS	mg/L	No requirement	1	134			
			3/12/19	23/12/19	15/01/20	TSS	mg/L	No requirement	1				
			3/12/19	23/12/19	15/01/20	Salinity	ppt	No requirement	1				

First flush empty at the time of SAS sampling

First flush empty at the time of SAS sampling

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First flush empty at the time of SAS sampling

	Effluent quality monitoring	3/12/19	23/12/19	15/01/20	TSS	mg/L	No requirement	1	10				
		3/12/19	23/12/19	15/01/20	Salinity	ppt	No requirement	1	0.158				
Jan-20	Point 10 - Ambient air and weather monitoring station		12/02/20	20/02/20	NOx	ppb	Continuous	Cont.	2	13	96		
			12/02/20	20/02/20	O3	ppb	Continuous	Cont.	0	26	102		
	Point 11 - Air emissions monitoring		31/01/20	5/02/20	NOx	ppm	Continuous with limit of 2132 g/min	Continuous		< 2132 g/min		No	
	Point 8 - First Flush Effluent quality monitoring			20/01/20	5/02/20	O&G	mg/L	Weekly during any discharge	2		Nil		
				20/01/20	5/02/20	pH		Weekly during any discharge	2	7.57	7.74	7.91	
	Point 9 - Process Water Effluent quality monitoring		6/01/20	21/01/20	5/02/20	TSS	mg/L	No requirement	0		-		
			6/01/20	21/01/20	5/02/20	Salinity	ppt	No requirement	0		-		
			6/01/20	21/01/20	5/02/20	O&G	mg/L	Monthly	1		<5		
			6/01/20	21/01/20	5/02/20	pH		Monthly	1		6.9		
			6/01/20	21/01/20	5/02/20	TDS	mg/L	No requirement	1		87		
		6/01/20	21/01/20	5/02/20	TSS	mg/L	No requirement	1		27			
	6/01/20	21/01/20	5/02/20	Salinity	ppt	No requirement	1		0.104				
Feb-20	Point 10 - Ambient air and weather monitoring station		12/03/20	25/03/20	NOx	ppb	Continuous	Cont.	0	7	119		
			12/03/20	25/03/20	O3	ppb	Continuous	Cont.	0	21	85		
	Point 11 - Air emissions monitoring		9/03/20	25/03/20	NOx	ppm	Continuous with limit of 2132 g/min	Continuous		< 2132 g/min		No	
	Point 8 - First Flush Effluent quality monitoring			9/03/20	25/03/20	O&G	mg/L	Weekly during any discharge	14		Nil		
				9/03/20	25/03/20	pH		Weekly during any discharge	14	6.89	7.80	8.25	
	Point 9 - Process Water Effluent quality monitoring		3/02/20	25/03/20	25/03/20	TSS	mg/L	No requirement	1		18		
			3/02/20	25/03/20	25/03/20	Salinity	ppt	No requirement	1		0.096		
			3/02/20	25/03/20	25/03/20	O&G	mg/L	Monthly	1		<5		
			3/02/20	25/03/20	25/03/20	pH		Monthly	1		7.33		
			3/02/20	25/03/20	25/03/20	TDS	mg/L	No requirement	1		179		
		3/02/20	25/03/20	25/03/20	TSS	mg/L	No requirement	1		28			
	3/02/20	25/03/20	25/03/20	Salinity	ppt	No requirement	1		0.211				
Mar-20	Point 10 - Ambient air and weather monitoring station		9/04/20	20/04/20	NOx	ppb	Continuous	Cont.	1	10	73		
			9/04/20	20/04/20	O3	ppb	Continuous	Cont.	0	16	58		
	Point 11 - Air emissions monitoring		1/04/20	20/04/20	NOx	ppm	Continuous with limit of 2132 g/min	Continuous		< 2132 g/min		No	
	Point 8 - First Flush Effluent quality monitoring			1/04/20	20/04/20	O&G	mg/L	Weekly during any discharge	7		Nil		
				1/04/20	20/04/20	pH		Weekly during any discharge	7	6.95	7.11	7.95	
	Point 9 - Process Water Effluent quality monitoring		3/03/20	25/03/20	25/03/20	TSS	mg/L	No requirement	0		-		
			3/03/20	25/03/20	25/03/20	Salinity	ppt	No requirement	0		-		
			3/03/20	25/03/20	25/03/20	O&G	mg/L	Monthly	1		<5		
			3/03/20	25/03/20	25/03/20	pH		Monthly	1		7.52		
			3/03/20	25/03/20	25/03/20	TDS	mg/L	No requirement	1		131		
		3/03/20	25/03/20	25/03/20	TSS	mg/L	No requirement	1		16			
	3/03/20	25/03/20	25/03/20	Salinity	ppt	No requirement	1		0.153				
Apr-20	Point 10 - Ambient air and weather monitoring station		13/05/20	13/05/20	NOx	ppb	Continuous	Cont.	0	8	144		
			13/05/20	13/05/20	O3	ppb	Continuous	Cont.	1	17	51		
	Point 11 - Air emissions monitoring		1/05/20	7/05/20	NOx	ppm	Continuous with limit of 2132 g/min	Continuous		< 2132 g/min		No	
	Point 8 - First Flush Effluent quality monitoring			1/05/20	7/05/20	O&G	mg/L	Weekly during any discharge	13		Nil		
				1/05/20	7/05/20	pH		Weekly during any discharge	13	7.02	7.35	7.83	
	Point 9 - Process Water Effluent quality monitoring		3/04/20	22/04/20	7/05/20	TSS	mg/L	No requirement	1		8		
			3/04/20	22/04/20	7/05/20	Salinity	ppt	No requirement	1		0.101		
			3/04/20	22/04/20	7/05/20	O&G	mg/L	Monthly	1		<5		
			3/04/20	22/04/20	7/05/20	pH		Monthly	1		7.3		
			3/04/20	22/04/20	7/05/20	TDS	mg/L	No requirement	1		123		
		3/04/20	22/04/20	7/05/20	TSS	mg/L	No requirement	1		11			
	3/04/20	22/04/20	7/05/20	Salinity	ppt	No requirement	1		0.144				
May-20	Point 10 - Ambient air and weather monitoring station		12/06/20	15/06/20	NOx	ppb	Continuous	Cont.	0	8	124		
			12/06/20	15/06/20	O3	ppb	Continuous	Cont.	1	16	31		
	Point 11 - Air emissions monitoring		2/06/20	8/06/20	NOx	ppm	Continuous with limit of 2132 g/min	Continuous		< 2132 g/min		No	
	Point 8 - First Flush Effluent quality monitoring			2/06/20	8/06/20	O&G	mg/L	Weekly during any discharge	13		Nil		
				2/06/20	8/06/20	pH		Weekly during any discharge	13	6.56	7.66	8.6	
	Point 9 - Process Water Effluent quality monitoring		5/05/20	21/05/20	8/06/20	TSS	mg/L	No requirement	1		13		
			5/05/20	21/05/20	8/06/20	Salinity	ppt	No requirement	1		0.27		
			5/05/20	21/05/20	8/06/20	O&G	mg/L	Monthly	1		<5		
			5/05/20	21/05/20	8/06/20	pH		Monthly	1		7.69		
			5/05/20	21/05/20	8/06/20	TDS	mg/L	No requirement	1		122		
		5/05/20	21/05/20	8/06/20	TSS	mg/L	No requirement	1		7			
	5/05/20	21/05/20	8/06/20	Salinity	ppt	No requirement	1		0.146				
Jun-20	Point 10 - Ambient air and weather monitoring station		10/07/20	16/07/20	NOx	ppb	Continuous	Cont.	1	7	108		
			10/07/20	16/07/20	O3	ppb	Continuous	Cont.	1	16	31		
	Point 11 - Air emissions monitoring		1/07/20	6/07/20	NOx	ppm	Continuous with limit of 2132 g/min	Continuous		< 2132 g/min		No	
	Point 8 - First Flush Effluent quality monitoring			1/07/20	6/07/20	O&G	mg/L	Weekly during any discharge	15		Nil		
				1/07/20	6/07/20	pH		Weekly during any discharge	15	7.11	7.51	8.1	
	Point 9 - Process Water Effluent quality monitoring		2/06/20	17/06/20	18/06/20	TSS	mg/L	No requirement	0		-		
			2/06/20	17/06/20	18/06/20	Salinity	ppt	No requirement	0		-		
			2/06/20	17/06/20	18/06/20	O&G	mg/L	Monthly	1		< 5		
			2/06/20	17/06/20	18/06/20	pH		Monthly	1		7.42		
			2/06/20	17/06/20	18/06/20	TDS	mg/L	No requirement	1		106		
		2/06/20	17/06/20	18/06/20	TSS	mg/L	No requirement	1		6			
	2/06/20	17/06/20	18/06/20	Salinity	ppt	No requirement	1		0.127				
Annual review of volume monitoring	Point 7 - First flush and process water 'Wastewater Volume Monitoring Point' on drawing 824-BA-072		29/06/20	29/07/20	Volume	kL/day	Daily, collated annually	366	0.00	5.1	129.40		

Note: Volume monitoring covers the period of 03 May to 02 May

Change Log

Date Change

16/07/20 Included frequency of sampling into data sheet

28/07/20 Included sampling requirement for each month to match licence

29/07/20 Included volume monitoring data