

**Tower Power Station**

Licence Number: 5357

EDL CSM (NSW) PTY LTD  
PO BOX 4046

Licence Holder: Eight Mile Plains 4113  
Tower Coal Seam Methane Power Station  
Douglas Park Drive

Licence Address: Douglas Park NSW 2569

Month: FY 2017-18

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 (Licence)	Licence Limit	Measurement during month	Min	Mean	Max	Exceedance (Yes/No)	
Jul-17	Point 10 - Ambient air and weather monitoring station		11/08/17	11/08/17	NOx	ppb	Continuous		Continuous	0	14	235		
			11/08/17	11/08/17	O3	ppb	Continuous		Continuous	-3	18	33		
	Point 11 - Air emissions monitoring		4/08/17	11/08/17	NOx	ppm	Continuous	2132g/min	Continuous	<2132g/min				No
			4/08/17	11/08/17	O&G	mg/L	Weekly during any discharge		1	No Visual				
	Point 8 - First Flush Effluent quality monitoring		4/08/17	11/08/17	pH		Weekly during any discharge		1	6.8				
			26/07/17	26/07/17	11/08/17	TSS	mg/L	Not required		0				The First Flush samples were not collected as the storage pits were empty at the time of collection
			26/07/17	26/07/17	11/08/17	Salinity	ppt	Not required		0				
			4/07/17	26/07/17	11/08/17	O&G	mg/L	Monthly		1	<5			
			4/07/17	26/07/17	11/08/17	pH		Monthly		1	7.45			
			4/07/17	26/07/17	11/08/17	TDS	mg/L	Not required		1	79			
			4/07/17	26/07/17	11/08/17	TSS	mg/L	Not required		1	11			
			4/07/17	26/07/17	11/08/17	Salinity	ppt	Not required		1	0.097			
Aug-17	Point 10 - Ambient air and weather monitoring station		12/09/17	12/09/17	NOx	ppb	Continuous		Continuous	0	17	297		
			12/09/17	12/09/17	O3	ppb	Continuous		Continuous	-1	22	40		
	Point 11 - Air emissions monitoring		30/08/17	12/09/17	NOx	ppm	Continuous	2132g/min	Continuous	<2132g/min				No
			30/08/17	12/09/17	O&G	mg/L	Weekly during any discharge		1	No Visual				
	Point 8 - First Flush Effluent quality monitoring		30/08/17	12/09/17	pH		Weekly during any discharge		1	8.38				
			2/08/17	30/08/17	12/09/17	TSS	mg/L	Not required		1	1			
			2/08/17	30/08/17	12/09/17	Salinity	ppt	Not required		1	0.176			
			2/08/17	30/08/17	12/09/17	O&G	mg/L	Monthly		1	<5			
			2/08/17	30/08/17	12/09/17	pH		Monthly		1	7.5			
			2/08/17	30/08/17	12/09/17	TDS	mg/L	Not required		1	120			
			2/08/17	30/08/17	12/09/17	TSS	mg/L	Not required		1	7			
			2/08/17	30/08/17	12/09/17	Salinity	ppt	Not required		1	0.147			
Point 9 - Process Water Effluent quality monitoring		27/10/17	30/10/17	NOx	ppb	Continuous		Continuous	0	32	425			
		27/10/17	30/10/17	O3	ppb	Continuous		Continuous	-2	24	57			
Sep-17	Point 10 - Ambient air and weather monitoring station		29/09/17	10/10/17	NOx	ppm	Continuous	2132g/min	Continuous	<2132g/min				no
			29/09/17	10/10/17	O&G	mg/L	Weekly during any discharge		0					The First Flush samples were not collected as the storage pits were empty at the time of collection
	Point 8 - First Flush Effluent quality monitoring		29/09/17	10/10/17	pH		Weekly during any discharge		0					
			4/09/17	20/09/17	10/10/17	TSS	mg/L	Not required		0				
			4/09/17	20/09/17	10/10/17	Salinity	ppt	Not required		0				
			4/09/17	20/09/17	10/10/17	O&G	mg/L	Monthly		1	<5			
			4/09/17	20/09/17	10/10/17	pH		Monthly		1	7.88			
			4/09/17	20/09/17	10/10/17	TDS	mg/L	Not required		1	125			
			4/09/17	20/09/17	10/10/17	TSS	mg/L	Not required		1	6			
			4/09/17	20/09/17	10/10/17	Salinity	ppt	Not required		1	0.157			
	Oct-17	Point 10 - Ambient air and weather monitoring station		9/11/17	17/11/17	NOx	ppb	Continuous		Continuous	0	16	550	
				9/11/17	17/11/17	O3	ppb	Continuous		Continuous	-1	24	64	
Point 11 - Air emissions monitoring			31/10/17	17/11/17	NOx	ppm	Continuous	2132g/min	Continuous	<2132g/min				no
			31/10/17	17/11/17	O&G	mg/L	Weekly during any discharge		0					The First Flush samples were not collected as the storage pits were empty at the time of collection
Point 8 - First Flush Effluent quality monitoring			31/10/17	17/11/17	pH		Weekly during any discharge		0					
			16/10/17	3/11/17	17/11/17	TSS	mg/L	Not required		0				
			16/10/17	3/11/17	17/11/17	Salinity	ppt	Not required		0				
			16/10/17	3/11/17	17/11/17	O&G	mg/L	Monthly		1	<5			
			16/10/17	3/11/17	17/11/17	pH		Monthly		1	6.43			
			16/10/17	3/11/17	17/11/17	TDS	mg/L	Not required		1	93			
			16/10/17	3/11/17	17/11/17	TSS	mg/L	Not required		1	1			
			16/10/17	3/11/17	17/11/17	Salinity	ppt	Not required		1	0.11			
Nov-17	Point 10 - Ambient air and weather monitoring station		12/12/17	12/12/17	NOx	ppb	Continuous		Continuous	-1	7	177		
			12/12/17	12/12/17	O3	ppb	Continuous		Continuous	-1	19	52		
	Point 11 - Air emissions monitoring		30/11/17	12/12/17	NOx	ppm	Continuous	2132g/min	Continuous	<2132g/min				no
			30/11/17	12/12/17	O&G	mg/L	Weekly during any discharge		1	nil visual				First flush was inspected each week during the month. Wk 4 was the only week with water present
	Point 8 - First Flush Effluent quality monitoring		30/11/17	12/12/17	pH		Weekly during any discharge		1	8.5				
			2/11/17	24/11/17	12/12/17	TSS	mg/L	Not required		0				The First Flush samples were not collected as the storage pits were empty at the time of collection
			2/11/17	24/11/17	12/12/17	Salinity	ppt	Not required		0				
			2/11/17	24/11/17	12/12/17	O&G	mg/L	Monthly		1	<5			
			2/11/17	24/11/17	12/12/17	pH		Monthly		1	10.19			pH probe on the pH correction system was found to be faulty. Probe replaced on 13/11/17
			2/11/17	24/11/17	12/12/17	TDS	mg/L	Not required		1	184			
			2/11/17	24/11/17	12/12/17	TSS	mg/L	Not required		1	3			
			2/11/17	24/11/17	12/12/17	Salinity	ppt	Not required		1	0.22			
Dec-17	Point 10 - Ambient air and weather monitoring station		15/01/18	22/01/18	NOx	ppb	Continuous		Continuous	1	6	67		
			15/01/18	22/01/18	O3	ppb	Continuous		Continuous	-5	22	92		
	Point 11 - Air emissions monitoring		5/01/18	9/01/18	NOx	ppm	Continuous	2132g/min	Continuous	<2132g/min				no
			5/01/18	9/01/18	O&G	mg/L	Weekly during any discharge		5	nil visual				
	Point 8 - First Flush Effluent quality monitoring		5/01/18	9/01/18	pH		Weekly during any discharge		5	7	8	8.5		
			4/12/17	22/12/17	9/01/18	TSS	mg/L	Not required		1	2			
			4/12/17	22/12/17	9/01/18	Salinity	ppt	Not required		1	0.123			
			4/12/17	22/12/17	9/01/18	O&G	mg/L	Monthly		1	<5			
			4/12/17	22/12/17	9/01/18	pH		Monthly		1	7.1			
			4/12/17	22/12/17	9/01/18	TDS	mg/L	Not required		1	140			
			4/12/17	22/12/17	9/01/18	TSS	mg/L	Not required		1	1			
			4/12/17	22/12/17	9/01/18	Salinity	ppt	Not required		1	0.168			
Jan-18	Point 10 - Ambient air and weather monitoring station		12/02/18	14/02/18	NOx	ppb	Continuous		Continuous	1	6	46		
			12/02/18	14/02/18	O3	ppb	Continuous		Continuous	-1	17	100		
	Point 11 - Air emissions monitoring		1/02/18	14/02/18	NOx	ppm	Continuous	2132g/min	Continuous	<2132g/min				no
			1/02/18	14/02/18	O&G	mg/L	Weekly during any discharge		1	nil visual				First flush was inspected each week during the month. Wk 2 was the only week with water present
	Point 8 - First Flush Effluent quality monitoring		1/02/18	14/02/18	pH		Weekly during any discharge		1	7.5				
			3/01/18	30/01/18	14/02/18	TSS	mg/L	Not required		1	1			
			3/01/18	30/01/18	14/02/18	Salinity	ppt	Not required		1	0.172			
			3/01/18	30/01/18	14/02/18	O&G	mg/L	Monthly		1	<5			
			3/01/18	30/01/18	14/02/18	pH		Monthly		1	7.61			
			3/01/18	30/01/18	14/02/18	TDS	mg/L	Not required		1	133			
			3/01/18	30/01/18	14/02/18	TSS	mg/L	Not required		1	1			
			3/01/18	30/01/18	14/02/18	Salinity	ppt	Not required		1	0.159			

		9/03/18	14/03/18	NOx	ppb	Continuous		Continuous	0	8	253		
	Point 10 - Ambient air and weather monitoring station	9/03/18	14/03/18	O3	ppb	Continuous		Continuous	-4	13	57		
	Point 11 - Air emissions monitoring	27/02/18	14/03/18	NOx	ppm	Continuous	2132g/min	Continuous	<2132g/min			no	
Feb-18		27/02/18	14/03/18	O&G	mg/L	Weekly during any discharge			1	nil visual		First flush dry during the first 3 weeks of February. Only 2 samples taken during the month.	
		27/02/18	14/03/18	pH		Weekly during any discharge			2	7.04	7.09		7.15
		1/02/18	27/02/18	14/03/18	TSS	mg/L	Not required			0			First flush was completely empty during sampling, therefore no sample collected.
		1/02/18	27/02/18	14/03/18	Salinity	ppt	Not required			0			
		1/02/18	27/02/18	14/03/18	O&G	mg/L	Monthly			1	<5		
		1/02/18	27/02/18	14/03/18	pH		Monthly			1	7.6		
		1/02/18	27/02/18	14/03/18	TDS	mg/L	Not required			1	132		
		1/02/18	27/02/18	14/03/18	TSS	mg/L	Not required			1	2		
		1/02/18	27/02/18	14/03/18	Salinity	ppt	Not required			1	0.166		
		1/02/18	27/02/18	14/03/18	O&G	mg/L	Monthly			1	<5		
Mar-18		12/04/18	18/04/18	NOx	ppb	Continuous		Continuous	1	9	74		
		12/04/18	18/04/18	O3	ppb	Continuous		Continuous	-5	13	67		
		3/04/18	12/04/18	NOx	ppm	Continuous	2132g/min	Continuous	<2132g/min			no	
		3/04/18	12/04/18	O&G	mg/L	Weekly during any discharge			3	nil visual		First flush was dry one week during March. 3 samples were collected during the month.	
		3/04/18	12/04/18	pH		Weekly during any discharge			3	7.85	8.08		8.2
		6/03/18	27/03/18	12/04/18	TSS	mg/L	Not required			0			First flush was empty during sampling, therefore no monthly TSS or Salinity data.
		6/03/18	27/03/18	12/04/18	Salinity	ppt	Not required			0			
		6/03/18	27/03/18	12/04/18	O&G	mg/L	Monthly			1	<5		
		6/03/18	27/03/18	12/04/18	pH		Monthly			1	6.54		
		6/03/18	27/03/18	12/04/18	TDS	mg/L	Not required			1	98		
	6/03/18	27/03/18	12/04/18	TSS	mg/L	Not required			1	2			
	6/03/18	27/03/18	12/04/18	Salinity	ppt	Not required			1	0.119			
	6/03/18	27/03/18	12/04/18	O&G	mg/L	Monthly			1	<5			
Apr-18		11/05/18	15/05/18	NOx	ppb	Continuous		Continuous	1	19	104		
		11/05/18	15/05/18	O3	ppb	Continuous		Continuous	-2	17	62		
		30/04/18	15/05/18	NOx	ppm	Continuous	2132g/min	Continuous	<2132g/min			no	
		30/04/18	15/05/18	O&G	mg/L	Weekly during any discharge			0			First flush empty during April.	
		30/04/18	15/05/18	pH		Weekly during any discharge			0				
		4/04/18	3/05/18	15/05/18	TSS	mg/L	Not required			0			First flush was empty during sampling, therefore no monthly TSS or Salinity data.
		4/04/18	3/05/18	15/05/18	Salinity	ppt	Not required			0			
		4/04/18	3/05/18	15/05/18	O&G	mg/L	Monthly			1	<5		
		4/04/18	3/05/18	15/05/18	pH		Monthly			1	8.04		
		4/04/18	3/05/18	15/05/18	TDS	mg/L	Not required			1	165		
	4/04/18	3/05/18	15/05/18	TSS	mg/L	Not required			1	2			
	4/04/18	3/05/18	15/05/18	Salinity	ppt	Not required			1	0.194			
	4/04/18	3/05/18	15/05/18	O&G	mg/L	Monthly			1	<5			
May-18		18/06/18	22/06/18	NOx	ppb	Continuous		Continuous	1	12	65		
		18/06/18	22/06/18	O3	ppb	Continuous		Continuous	-1	17	43		
		31/05/18	13/06/18	NOx	ppm	Continuous	2132g/min	Continuous	<2132g/min			no	
		31/05/18	13/06/18	O&G	mg/L	Weekly during any discharge			0			First flush empty during May	
		31/05/18	13/06/18	pH		Weekly during any discharge			0				
		3/05/18	28/05/18	13/06/18	TSS	mg/L	Not required			0			First flush was empty during sampling, therefore no monthly TSS or Salinity data.
		3/05/18	28/05/18	13/06/18	Salinity	ppt	Not required			0			
		3/05/18	28/05/18	13/06/18	O&G	mg/L	Monthly			1	<5		
		3/05/18	28/05/18	13/06/18	pH		Monthly			1	7.25		
		3/05/18	28/05/18	13/06/18	TDS	mg/L	Not required			1	151		
	3/05/18	28/05/18	13/06/18	TSS	mg/L	Not required			1	5			
	3/05/18	28/05/18	13/06/18	Salinity	ppt	Not required			1	0.189			
	3/05/18	28/05/18	13/06/18	O&G	mg/L	Monthly			1	<5			
Jun-18		11/07/18	13/07/18	NOx	ppb	Continuous		Continuous	1	11	61		
		11/07/18	13/07/18	O3	ppb	Continuous		Continuous	-1	18	29		
		2/07/18	13/07/18	NOx	ppm	Continuous	2132g/min	Continuous	<2132g/min			no	
		2/07/18	13/07/18	O&G	mg/L	Weekly during any discharge			4	nil visual			
		2/07/18	13/07/18	pH		Weekly during any discharge			4	7.01	7.53		8.2
		4/06/18	26/06/18	13/07/18	TSS	mg/L	Not required			1	26		Point 8 - First Flush Effluent quality monitoring
		4/06/18	26/06/18	13/07/18	Salinity	ppt	Not required			1	0.121		
		4/06/18	26/06/18	13/07/18	O&G	mg/L	Monthly			1	<5		
		4/06/18	26/06/18	13/07/18	pH		Monthly			1	7.32		
		4/06/18	26/06/18	13/07/18	TDS	mg/L	Not required			1	164		
	4/06/18	26/06/18	13/07/18	TSS	mg/L	Not required			1	6			
	4/06/18	26/06/18	13/07/18	Salinity	ppt	Not required			1	0.195			
	4/06/18	26/06/18	13/07/18	O&G	mg/L	Monthly			1	<5			
Annual review of volume monitoring	Point 7 - First flush and process water 'Wastewater Volume Monitoring Point' on drawing 824-BA-072	20/06/18	29/07/20	Volume	kl/day	Daily, collated annually			365	0.00	3.87	74.00	

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

#### Change Log

##### Date Change

13/06/19 During the 2018-2019 Annual Return Compliance Review, additional Point 11 data (pH and O&G only) was identified for the July 2018 - April 2019 period. This data was compliant.

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