

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

Licensee Address: Douglas Park NSW 2569

Month: FY 2015-16

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, 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 (Licence)	Measurement during month	Min	Mean	Max
Jul-15	Point 10 - Ambient air and weather monitoring station	-	13/08/15	13/08/15	Nox	ppb	Continuous	Continuous	0	8	141
	Point 11 - Air emissions monitoring	-	13/08/15	13/08/15	O3	ppb	Continuous	Continuous	-1	-	28
	Point 11 - Air emissions monitoring	-	-	11/08/15	NOx	ppm	of 2132g/min	Continuous	<2132g/min		
	Point 8 - First Flush Effluent quality monitoring	-	-	11/08/15	O&G	mg/L	Weekly during any discharge	5	No visual		
Aug-15	Point 10 - Ambient air and weather monitoring station	-	28/09/15	28/09/15	Nox	ppb	Continuous	Continuous	0	19	105
	Point 10 - Ambient air and weather monitoring station	-	28/09/15	28/09/15	O3	ppb	Continuous	Continuous	0	-	40
	Point 11 - Air emissions monitoring	-	-	14/08/15	NOx	ppm	Continuous with limit of 2132g/min	Continuous	<2132g/min		
	Point 11 - Air emissions monitoring	-	-	14/08/15	O&G	mg/L	Weekly during any discharge	9	no visual		
	Point 8 - First Flush Effluent quality monitoring	-	-	14/08/15	pH		Weekly during any discharge	9	7.9	8.1	8.4
	Point 9 - Process Water Effluent quality monitoring	5/08/15	24/08/15	14/08/15	O&G	mg/L	Monthly	1	5		
Sep-15	Point 10 - Ambient air and weather monitoring station	-	12/10/15	15/10/15	Nox	ppb	Continuous	Continuous	0	8	55
	Point 10 - Ambient air and weather monitoring station	-	12/10/15	15/10/15	O3	ppb	Continuous	Continuous	0	-	48
	Point 11 - Air emissions monitoring	-	-	8/10/15	NOx	ppm	Continuous with limit of 2132g/min	Continuous	<2132g/min		
	Point 11 - Air emissions monitoring	-	-	8/10/15	O&G	mg/L	Weekly during any discharge	9	No visual		
	Point 8 - First Flush Effluent quality monitoring	-	-	8/10/15	pH		Weekly during any discharge	9	7.5	8.0	8.2
	Point 9 - Process Water Effluent quality monitoring	2/09/15	15/09/15	28/09/15	O&G	mg/L	Monthly	1	6		
Oct-15	Point 10 - Ambient air and weather monitoring station	-	12/11/15	17/11/15	Nox	ppb	Continuous	Continuous	1	10	210
	Point 10 - Ambient air and weather monitoring station	-	12/11/15	17/11/15	O3	ppb	Continuous	Continuous	0	-	74
	Point 11 - Air emissions monitoring	-	-	17/11/15	NOx	ppm	Continuous with limit of 2132g/min	Continuous	<2132g/min		
	Point 11 - Air emissions monitoring	-	-	5/11/15	O&G	mg/L	Weekly during any discharge	7	No visual		
	Point 8 - First Flush Effluent quality monitoring	-	-	5/11/15	pH		Weekly during any discharge	7	7.9	8.0	8.1
	Point 9 - Process Water Effluent quality monitoring	6/10/15	22/10/15	5/11/15	O&G	mg/L	Monthly	1	<5		
Nov-15	Point 10 - Ambient air and weather monitoring station	-	11/12/15	16/12/15	Nox	ppb	Continuous	Continuous	1	10	92
	Point 10 - Ambient air and weather monitoring station	-	11/12/15	16/12/15	O3	ppb	Continuous	Continuous	0	-	69
	Point 11 - Air emissions monitoring	-	-	16/12/15	NOx	ppm	Continuous with limit of 2132g/min	Continuous	<2132g/min		
	Point 11 - Air emissions monitoring	-	-	16/12/15	O&G	mg/L	Weekly during any discharge	5	No visual		
	Point 8 - First Flush Effluent quality monitoring	-	-	16/12/15	pH		Weekly during any discharge	5	8.0	8.2	8.4
	Point 9 - Process Water Effluent quality monitoring	3/11/15	26/11/15	16/12/15	O&G	mg/L	Monthly	1	7		
Dec-15	Point 10 - Ambient air and weather monitoring station	-	14/01/16	20/01/16	Nox	ppb	Continuous	Continuous	1	8	133
	Point 10 - Ambient air and weather monitoring station	-	14/01/16	20/01/16	O3	ppb	Continuous	Continuous	-1	-	80
	Point 11 - Air emissions monitoring	-	-	20/01/16	NOx	ppm	Continuous with limit of 2132g/min	Continuous	<2132g/min		
	Point 11 - Air emissions monitoring	-	-	20/01/16	O&G	mg/L	Weekly during any discharge	10	No visual		
	Point 8 - First Flush Effluent quality monitoring	-	-	20/01/16	pH		Weekly during any discharge	10	7.2	7.82	8.4
	Point 9 - Process Water Effluent quality monitoring	1/12/15	16/12/15	20/01/16	O&G	mg/L	Monthly	1	7		
Jan-16	Point 10 - Ambient air and weather monitoring station	-	12/02/16	23/02/16	Nox	ppb	Continuous	Continuous	0	9.4	240
	Point 10 - Ambient air and weather monitoring station	-	12/02/16	23/02/16	O3	ppb	Continuous	Continuous	-1	-	84
	Point 11 - Air emissions monitoring	-	-	23/02/16	NOx	ppm	Continuous with limit of 2132g/min	Continuous	<2132g/min		
	Point 11 - Air emissions monitoring	-	-	23/02/16	O&G	mg/L	Weekly during any discharge	12	No visual		
	Point 8 - First Flush Effluent quality monitoring	-	-	23/02/16	pH		Weekly during any discharge	12	6.88	7.6	9.2
	Point 9 - Process Water Effluent quality monitoring	4/01/16	19/01/16	20/01/16	O&G	mg/L	Monthly	1	<5		
Feb-16	Point 10 - Ambient air and weather monitoring station	-	12/03/16	22/03/16	Nox	ppb	Continuous	Continuous	0	9.4	240
	Point 10 - Ambient air and weather monitoring station	-	12/03/16	22/03/16	O3	ppb	Continuous	Continuous	1	17.1	107
	Point 11 - Air emissions monitoring	-	-	22/03/16	NOx	ppm	Continuous with limit of 2132g/min	Continuous	<2132g/min		
	Point 11 - Air emissions monitoring	-	-	22/03/16	O&G	mg/L	Weekly during any discharge	12	No visual		
	Point 8 - First Flush Effluent quality monitoring	-	-	22/03/16	pH		Weekly during any discharge	12	7.1	7.6	8.14
	Point 9 - Process Water Effluent quality monitoring	1/02/16	18/02/16	3/03/16	O&G	mg/L	Monthly	1	7		
Mar-16	Point 10 - Ambient air and weather monitoring station	-	12/04/16	28/04/16	Nox	ppb	Continuous	Continuous	0	8	85
	Point 10 - Ambient air and weather monitoring station	-	12/04/16	28/04/16	O3	ppb	Continuous	Continuous	-1	-	81
	Point 11 - Air emissions monitoring	-	-	28/04/16	NOx	ppm	Continuous with limit of 2132g/min	Continuous	<2132g/min		
	Point 11 - Air emissions monitoring	-	-	28/04/16	O&G	mg/L	Weekly during any discharge		No visual		
	Point 8 - First Flush Effluent quality monitoring	-	-	28/04/16	pH		Weekly during any discharge		6.7	7.5	8.1
	Point 9 - Process Water Effluent quality monitoring	30/03/16	14/04/16	28/04/16	O&G	mg/L	Monthly	1	<5		
		30/03/16	14/04/16	28/04/16	pH		1	7.05			
			12/05/16	2/11/16	Nox	ppb	Continuous	Continuous	1	9	66

Month	Location of monitoring point	Sampled	Obtained	Published	Pollutant	Units	Monitoring Frequency (Licence)	Measurement during month	Min	Mean	Max
Apr-16	Point 10 - Ambient air and weather monitoring station	-	12/05/16	2/11/16	O3	ppb	Continuous	Continuous	-1	16	58
	Point 11 - Air emissions monitoring	-	-	2/11/16	NOx	ppm	Continuous with limit of 2132g/min	Continuous	<2132g/min		
	Point 8 - First Flush Effluent quality monitoring	13/04/16	29/04/16	2/11/16	O&G	mg/L	Weekly during any discharge		No visual		
		13/04/16	29/04/16	2/11/16	TSS	mg/L	Not required	1	1		
		13/04/16	29/04/16	2/11/16	Salinity	ppt	Not required	1	0.092		
		13/04/16	-	2/11/16	pH		Weekly during any discharge		7	7.5	7.8
	Point 9 - Process Water Effluent quality monitoring	13/04/16	29/04/16	2/11/16	O&G	mg/L	Monthly	1	<5		
		13/04/16	29/04/16	2/11/16	TSS	mg/L	Not required		6		
		13/04/16	29/04/16	2/11/16	Salinity	ppt	Not required		0.166		
		13/04/16	29/04/16	2/11/16	pH		Monthly	1	7.58		
May-16	Point 10 - Ambient air and weather monitoring station	-	13/07/16	2/11/16	Nox	ppb	Continuous	Continuous	0	8	91
	Point 10 - Ambient air and weather monitoring station	-	13/07/16	2/11/16	O3	ppb	Continuous	Continuous	0	-	52
	Point 11 - Air emissions monitoring	-	-	2/11/16	NOx	ppm	Continuous with limit of 2132g/min	Continuous	<2132g/min		
	Point 8 - First Flush Effluent quality monitoring	3/05/16	1/06/16	2/11/16	O&G	mg/L	Weekly during any discharge	4	No visual		
		3/05/16	1/06/16	2/11/16	TSS	mg/L	Not required	0	-		
		3/05/16	1/06/16	2/11/16	Salinity	ppt	Not required	0	-		
	Point 9 - Process Water Effluent quality monitoring	3/05/16	1/06/16	2/11/16	pH		Weekly during any discharge	4	7.5	8	8.4
		3/05/16	1/06/16	2/11/16	O&G	mg/L	Monthly	1	< 5		
		3/05/16	1/06/16	2/11/16	TSS	mg/L	Not required		2		
		3/05/16	1/06/16	2/11/16	Salinity	ppt	Not required		0.167		
Jun-16	Point 9 - Process Water Effluent quality monitoring	3/05/16	1/06/16	2/11/16	pH		Monthly	1	7.6		
	Point 10 - Ambient air and weather monitoring station	-	13/07/16	2/11/16	Nox	ppb	Continuous	Continuous	-1	5.5	178
	Point 10 - Ambient air and weather monitoring station	-	13/07/16	2/11/16	O3	ppb	Continuous	Continuous	-1	15.8	28
	Point 11 - Air emissions monitoring	-	-	2/11/16	NOx	ppm	Continuous with limit of 2132g/min	Continuous	<2132g/min		
	Point 8 - First Flush Effluent quality monitoring	1/06/16	28/06/16	2/11/16	O&G	mg/L	Weekly during any discharge	4	No visual		
		1/06/16	28/06/16	2/11/16	TSS	mg/L	Monthly	1	3		
		1/06/16	28/06/16	2/11/16	Salinity	ppt	Monthly	1	0.057		
	Point 9 - Process Water Effluent quality monitoring	1/06/16	28/06/16	2/11/16	pH		Weekly during any discharge	4	7.45	7.8	8.1
		1/06/16	28/06/16	2/11/16	O&G	mg/L	Monthly	1	5		
					TSS	mg/L	Monthly		6		
				Salinity	ppt	Monthly		0.133			
Annual review of volume monitoring	Point 9 - Process Water Effluent quality monitoring	1/06/16	28/06/16	2/11/16	pH		Monthly	1	7.27		
	Point 7 - First flush and process water 'Wastewater Volume Monitoring Point' on drawing 824-BA-072		17/06/16	29/07/20	Volume	kl/day	Daily, collated annually	First flush - 148	0.20	14.58	180.15
					Volume	kl/day	Daily, collated annually	Process - 280	0.20	3.72	20.00

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 and limit for each month to match licence
- 29/07/20 Included volume monitoring data