

Vales Point Power Station Monthly Environmental Data Summary



LICENCE NO	761	http://www.epa.nsw.gov.au/prpoeoapp/
LICENCE HOLDER	SUNSET POWER INTERNATIONAL PTY LTD	
REPORTING PERIOD	APRIL 2016	
ADDRESS	VALES POINT ROAD, MANNERING PARK NSW	

POINT 1 Discharge to waters. Cooling water outlet at Wyee Bay approximately 1000m west of the premises. Labelled VPOC on plan of premises VX837351 15/11/13 DOC14/1645 EF 13/2865												
Month	Pollutant	Unit of Measure	Sample/Masurement Frequency	Samples Collected & Analysed	Date Sampled	Lowest Sample Value	Mean of Samples	Highest Sample Value	EPL Limit	98.5% limit	Exceedance (yes/no)	Comments
April 2016	Chlorine (free residual)	milligrams per litre	Monthly	1	6/04/2016	0.04	0.04	0.04	0.2	35	No	
April 2016	Temperature	degrees celsius	Continuous	100%	April 2016	24.2	31.7	33.9	37.5	35	No	98.5% limit not exceeded for year to date
April 2016	Oil and Grease	Visible	Continuous	100%	April 2016	NIL	NIL	NIL				No visible oil or grease detected during April 2016

POINT 2 Discharge to waters. Discharge from the ash water recycle system to the cooling water outlet canal. Labelled VPADB on plan of premises VX837351 15/11/13 DOC14/1645 EF 13/2865												
Month	Pollutant	Unit of Measure	Sample/Masurement Frequency	Samples Collected & Analysed	Date Sampled	Lowest Sample Value	Mean of Samples	Highest Sample Value	EPL Limit	Exceedance (yes/no)	Comments	
April 2016	Ammonia	milligrams per litre	Quarterly	1	6/04/2016	0.23	0.23	0.23				
April 2016	Cadmium	milligrams per litre	Quarterly	1	6/04/2016	<0.00021	<0.00021	<0.00021				
April 2016	Copper	milligrams per litre	Quarterly	1	6/04/2016	0.0096	0.0096	0.0096				
April 2016	Lead	milligrams per litre	Quarterly	1	6/04/2016	0.0026	0.0026	0.0026				
April 2016	Managanese	milligrams per litre	Quarterly	1	6/04/2016	0.0122	0.0122	0.0122				
April 2016	Nitrate + nitrite (oxidised nitrogen)	milligrams per litre	Monthly	1	6/04/2016	0.03	0.03	0.03				
April 2016	Nitrogen (total)	milligrams per litre	Quarterly	1	6/04/2016	0.6	0.6	0.6				
April 2016	pH	pH	Monthly	1	6/04/2016	8.35	8.35	8.35	6.5 - 9.5	No		
April 2016	Phosphorus (total)	milligrams per litre	Monthly	1	6/04/2016	0.11	0.11	0.11				
April 2016	Reactive Phosphorus	milligrams per litre	Monthly	1	6/04/2016	0.05	0.05	0.05				
April 2016	Selenium	milligrams per litre	Quarterly	1	6/04/2016	0.0146	0.0146	0.0146				
April 2016	Total Kjeldahl Nitrogen	milligrams per litre	Quarterly	1	6/04/2016	0.6	0.6	0.6				
April 2016	Total Suspended Solids	milligrams per litre	Fortnightly	4	6, 11, 19 & 26/4/2016	4	11	28	50	No		
April 2016	Zinc	milligrams per litre	Quarterly	1	6/04/2016	0.016	0.016	0.016				

POINT 4 Discharge to waters. Seepage from ash dam rehabilitated area. Labelled VPADS on plan of premises VX837351 15/11/13 DOC14/1645 EF 13/2865												
Month	Pollutant	Unit of Measure	Sample/Masurement Frequency	Samples Collected & Analysed	Date Sampled	Lowest Sample Value	Mean of Samples	Highest Sample Value	EPL Limit	Exceedance (yes/no)	Comments	
April 2016	Ammonia	milligrams per litre	Quarterly	1	6/04/2016	1.63	1.63	1.63			No discharge to Mannerling Bay during April 2016	
April 2016	Cadmium	milligrams per litre	Quarterly	1	6/04/2016	0.00057	0.00057	0.00057			No discharge to Mannerling Bay during April 2016	
April 2016	Copper	milligrams per litre	Quarterly	1	6/04/2016	<0.001	<0.001	<0.001			No discharge to Mannerling Bay during April 2016	
April 2016	Lead	milligrams per litre	Quarterly	1	6/04/2016	<0.0002	<0.0002	<0.0002			No discharge to Mannerling Bay during April 2016	
April 2016	Managanese	milligrams per litre	Quarterly	1	6/04/2016	0.0638	0.0638	0.0638			No discharge to Mannerling Bay during April 2016	
April 2016	Nitrate + nitrite (oxidised nitrogen)	milligrams per litre	Monthly	1	6/04/2016	0.29	0.29	0.29			No discharge to Mannerling Bay during April 2016	
April 2016	Nitrogen (total)	milligrams per litre	Quarterly	1	6/04/2016	1.9	1.9	1.9			No discharge to Mannerling Bay during April 2016	
April 2016	pH	pH	Monthly	1	6/04/2016	8.07	8.07	8.07			No discharge to Mannerling Bay during April 2016	
April 2016	Phosphorus (total)	milligrams per litre	Monthly	1	6/04/2016	0.06	0.06	0.06			No discharge to Mannerling Bay during April 2016	
April 2016	Selenium	milligrams per litre	Quarterly	1	6/04/2016	0.0023	0.0023	0.0023			No discharge to Mannerling Bay during April 2016	
April 2016	Total Kjeldahl Nitrogen	milligrams per litre	Quarterly	1	6/04/2016	1.6	1.6	1.6			No discharge to Mannerling Bay during April 2016	
April 2016	Total Suspended Solids	milligrams per litre	Monthly	1	6/04/2016	<2	<2	<2	50	No	No discharge to Mannerling Bay during April 2016	
April 2016	Zinc	milligrams per litre	Quarterly	1	6/04/2016	<0.005	<0.005	<0.005			No discharge to Mannerling Bay during April 2016	

POINT 18 Discharge to waters. Overboarding of Ash Dam at discharge point. Labelled VPADD on plan of premises VX837351 15/11/13 DOC14/1645 EF 13/2865												
Month	Pollutant	Unit of Measure	Sample/Masurement Frequency	Samples Collected & Analysed	Date Sampled	Lowest Sample Value	Mean of Samples	Highest Sample Value	EPL Limit	Exceedance (yes/no)	Comments	
April 2016	Ammonia	milligrams per litre	Daily for discharge >2 hrs								No discharge during April 2016	
April 2016	Cadmium	milligrams per litre	Daily for discharge >2 hrs								No discharge during April 2016	
April 2016	Copper	milligrams per litre	Daily for discharge >2 hrs								No discharge during April 2016	
April 2016	Lead	milligrams per litre	Daily for discharge >2 hrs								No discharge during April 2016	
April 2016	Managanese	milligrams per litre	Daily for discharge >2 hrs								No discharge during April 2016	
April 2016	Nitrate + nitrite (oxidised nitrogen)	milligrams per litre	Daily for discharge >2 hrs								No discharge during April 2016	
April 2016	Nitrogen (total)	milligrams per litre	Daily for discharge >2 hrs								No discharge during April 2016	
April 2016	pH	pH	Daily for discharge >2 hrs						6.5 - 9.0		No discharge during April 2016	
April 2016	Phosphorus (total)	milligrams per litre	Daily for discharge >2 hrs								No discharge during April 2016	
April 2016	Selenium	milligrams per litre	Daily for discharge >2 hrs								No discharge during April 2016	
April 2016	Total Kjeldahl Nitrogen	milligrams per litre	Daily for discharge >2 hrs								No discharge during April 2016	
April 2016	Total Suspended Solids	milligrams per litre	Daily for discharge >2 hrs						50		No discharge during April 2016	
April 2016	Zinc	milligrams per litre	Daily for discharge >2 hrs								No discharge during April 2016	

POINT 11 Discharge to air. Stack serving boiler unit 5, labelled point 11 on plan of premises VX837351 15/11/13 DOC14/1645 EF 13/2865												
Month	Pollutant	Unit of Measure	Sample/Messurement Frequency	Samples Collected & Analysed	Date Sampled	Lowest Sample Value	Mean of Samples	Highest Sample Value	EPL Limit	Exceedance (yes/no)	Comments	
April 2016	Cadmium	milligrams per cubic metre	Yearly	1	March 2016	0.011	0.011	0.011	1	No	Sampling complete. Report under review.	
April 2016	Chlorine	milligrams per cubic metre	Yearly	1	March 2016	<3.0	<3.0	<3.0	200	No	Sampling complete. Report under review.	
April 2016	Copper	milligrams per cubic metre	Yearly	1	March 2016	0.00044	0.00044	0.00044			Sampling complete. Report under review.	
April 2016	Hydrogen chloride	milligrams per cubic metre	Yearly	1	March 2016	<6.1	<6.1	<6.1	100	No	Sampling complete. Report under review.	
April 2016	Mercury	milligrams per cubic metre	Yearly	1	March 2016	0.000076	0.000076	0.000076	1	No	Sampling complete. Report under review.	
April 2016	Moisture	percent	Yearly	1	March 2016	7.2	7.2	7.2			Sampling complete. Report under review.	
April 2016	Molecular weight of stack gases	grams per gram mole	Yearly	1	March 2016	30.4	30.4	30.4			Sampling complete. Report under review.	
April 2016	Nitrogen Oxides	milligrams per cubic metre	Continuous	99.97%	April 2016	511	633	788	1500	No		
April 2016	Sulfuric acid mist and sulfur trioxide (as SO3)	milligrams per cubic metre	Yearly	1	March 2016	27	27	27	100	No	Sampling complete. Report under review.	
April 2016	Sulphur dioxide	parts per million	Continuous	99.97%	April 2016	178	207	246	600	No		
April 2016	Temperature	degrees Celsius	Yearly	1	March 2016	125.2	125.2	125.2			Sampling complete. Report under review.	
April 2016	Total Fluoride	milligrams per cubic metre	Yearly	1	March 2016	0.77	0.77	0.77	50	No	Sampling complete. Report under review.	
April 2016	Total Solid Particles	milligrams per cubic metre	Yearly	1	March 2016	1.17	1.17	1.17	100	No	Sampling complete. Report under review.	
April 2016	Type 1 and Type 2 substances in aggregate	milligrams per cubic metre	Yearly	1	March 2016	0.012	0.012	0.012	5	No	Sampling complete. Report under review.	
April 2016	Undifferentiated Particulates	milligrams per cubic metre	Continuous	100%	April 2016	14.8	21.3	50.1				
April 2016	Velocity	metres per second	Yearly	1	March 2016	15	15	15			Sampling complete. Report under review.	
April 2016	Volatile organic compounds	parts per million	Yearly	1	March 2016	<0.38	<0.38	<0.38			Sampling complete. Report under review.	
April 2016	Volumetric flowrate	cubic metres per second	Yearly	1	March 2016	160	160	160			Sampling complete. Report under review.	

POINT 12 Discharge to air. Stack serving boiler unit 6, labelled point 12 on plan of premises VX837351 15/11/13 DOC14/1645 EF 13/2865												
Month	Pollutant	Unit of Measure	Sample/Messurement Frequency	Samples Collected & Analysed	Date Sampled	Lowest Sample Value	Mean of Samples	Highest Sample Value	EPL Limit	Exceedance (yes/no)	Comments	
April 2016	Cadmium	milligrams per cubic metre	Yearly	1	March 2016	0.0031	0.0031	0.0031	1	No	Sampling complete. Report under review.	
April 2016	Chlorine	milligrams per cubic metre	Yearly	1	March 2016	<1.8	<1.8	<1.8	200	No	Sampling complete. Report under review.	
April 2016	Copper	milligrams per cubic metre	Yearly	1	March 2016	0.00029	0.00029	0.00029			Sampling complete. Report under review.	
April 2016	Hydrogen chloride	milligrams per cubic metre	Yearly	1	March 2016	<3.6	<3.6	<3.6	100	No	Sampling complete. Report under review.	
April 2016	Mercury	milligrams per cubic metre	Yearly	1	March 2016	0.00032	0.00032	0.00032	1	No	Sampling complete. Report under review.	
April 2016	Moisture	percent	Yearly	1	March 2016	7.1	7.1	7.1			Sampling complete. Report under review.	
April 2016	Molecular weight of stack gases	grams per gram mole	Yearly	1	March 2016	30.4	30.4	30.4			Sampling complete. Report under review.	
April 2016	Nitrogen Oxides	milligrams per cubic metre	Continuous	100%	April 2016	875	945	989	1500	No	Unit 6 outage commenced in the evening of 1/4/2016	
April 2016	Sulfuric acid mist and sulfur trioxide (as SO3)	milligrams per cubic metre	Yearly	1	March 2016	24	24	24	100	No	Sampling complete. Report under review.	
April 2016	Sulphur dioxide	parts per million	Continuous	100%	April 2016	193	222	251	600	No	Unit 6 outage commenced in the evening of 1/4/2016	
April 2016	Temperature	degrees Celsius	Yearly	1	March 2016	123.3	123.3	123.3			Sampling complete. Report under review.	
April 2016	Total Fluoride	milligrams per cubic metre	Yearly	1	March 2016	0.68	0.68	0.68	50	No	Sampling complete. Report under review.	
April 2016	Total Solid Particles	milligrams per cubic metre	Yearly	1	March 2016	0.46	0.46	0.46	100	No	Sampling complete. Report under review.	
April 2016	Type 1 and Type 2 substances in aggregate	milligrams per cubic metre	Yearly	1	March 2016	0.0055	0.0055	0.0055	5	No	Sampling complete. Report under review.	
April 2016	Undifferentiated Particulates	milligrams per cubic metre	Continuous	100%	April 2016	7.8	16.2	23.5			Unit 6 outage commenced in the evening of 1/4/2016	
April 2016	Velocity	metres per second	Yearly	1	March 2016	15	15	15			Sampling complete. Report under review.	
April 2016	Volatile organic compounds	parts per million	Yearly	1	March 2016	0.44	0.44	0.44			Sampling complete. Report under review.	
April 2016	Volumetric flowrate	cubic metres per second	Yearly	1	March 2016	170	170	170			Sampling complete. Report under review.	

GENERAL COMMENTS
Unit 6 outage commenced in the evening of 01/04/2016.
2015-16 Stack Testing on Points 11 & 12 completed by contractor late March 2016. Draft Stack Gas Test Report provided by contractor on 03/05/2016