

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	June 2019	
ADDRESS	VALES POINT ROAD, MANNERING PARK NSW	

POINT 1 Cooling water outlet at Wyee Bay, marked and shown as "VPOC" on the Plan (VX837351, 30.06.2015, DOC15/381265).											
Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Samples Collected & Analysed	Date Sampled	Lowest Sample Value	Mean of Samples	Highest Sample Value	EPL Limit	Exceedance (yes/no)	Comments
Jun-19	Chlorine (free residual)	milligrams per litre	Monthly	1	12/6/2019	0.05	0.05	0.05	0.2	No	
Jun-19	Temperature	degrees celsius	Continuous	100%	Jun-19	21.1	24.9	27.8	37.5	No	
Jun-19	Oil and Grease	Visible	Continuous	100%	Jun-19	NIL	NIL	NIL			No visible oil or grease detected during June 2019.

POINT 2 Discharge from the ash water recycle system to the cooling water outlet canal, marked and shown as "VPADB" on the Plan (VX837351, 30.06.2015, DOC15/381265).											
Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Samples Collected & Analysed	Date Sampled	Lowest Sample Value	Mean of Samples	Highest Sample Value	EPL Limit	Exceedance (yes/no)	Comments
Jun-19	Ammonia	milligrams per litre	Quarterly								
Jun-19	Cadmium	milligrams per litre	Quarterly								
Jun-19	Copper	milligrams per litre	Quarterly								
Jun-19	Lead	milligrams per litre	Quarterly								
Jun-19	Manganese	milligrams per litre	Quarterly								
Jun-19	Nitrate + nitrite (oxidised nitrogen)	milligrams per litre	Monthly	1	12/6/2019	0.06	0.06	0.06			
Jun-19	Nitrogen (total)	milligrams per litre	Quarterly								
Jun-19	pH	pH	Monthly	1	12/6/2019	8.78	8.78	8.78	6.5 - 9.5	No	
Jun-19	Phosphorus (total)	milligrams per litre	Monthly	1	12/6/2019	0.12	0.12	0.12			
Jun-19	Reactive Phosphorus	milligrams per litre	Monthly	1	12/6/2019	0.08	0.08	0.08			
Jun-19	Selenium	milligrams per litre	Quarterly								
Jun-19	Total Kjeldahl Nitrogen	milligrams per litre	Quarterly								
Jun-19	Total Suspended Solids	milligrams per litre	Fortnightly	3	Jun-19	3	7	9	50	No	
Jun-19	Zinc	milligrams per litre	Quarterly								

POINT 4 Seepage from ash dam rehabilitated area, marked and shown as "VPADS" on the Plan (VX837351, 30.06.2015, DOC15/381265).											
Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Samples Collected & Analysed	Date Sampled	Lowest Sample Value	Mean of Samples	Highest Sample Value	EPL Limit	Exceedance (yes/no)	Comments
Jun-19	Ammonia	milligrams per litre	Quarterly								
Jun-19	Cadmium	milligrams per litre	Quarterly								
Jun-19	Copper	milligrams per litre	Quarterly								
Jun-19	Lead	milligrams per litre	Quarterly								
Jun-19	Manganese	milligrams per litre	Quarterly								
Jun-19	Nitrate + nitrite (oxidised nitrogen)	milligrams per litre	Monthly	1							** Seepage water sampled is captured and pumped back to the ash dam. There was no licence 'discharge to waters' (i.e. to Mannerling Bay) during June 2019.
Jun-19	Nitrogen (total)	milligrams per litre	Quarterly								
Jun-19	pH	pH	Monthly	1							
Jun-19	Phosphorus (total)	milligrams per litre	Monthly	1							
Jun-19	Selenium	milligrams per litre	Quarterly								
Jun-19	Total Kjeldahl Nitrogen	milligrams per litre	Quarterly								
Jun-19	Total Suspended Solids	milligrams per litre	Monthly	1					50	No	
Jun-19	Zinc	milligrams per litre	Quarterly								

POINT 18 Overboarding of Ash Dam, marked and shown as "VPADD" on the Plan (VX837351, 30.06.2015, DOC15/381265).											
Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Samples Collected & Analysed	Date Sampled	Lowest Sample Value	Mean of Samples	Highest Sample Value	EPL Limit	Exceedance (yes/no)	Comments
Jun-19	Ammonia	milligrams per litre	Daily for discharge >2 hrs								
Jun-19	Cadmium	milligrams per litre	Daily for discharge >2 hrs								
Jun-19	Copper	milligrams per litre	Daily for discharge >2 hrs								
Jun-19	Lead	milligrams per litre	Daily for discharge >2 hrs								
Jun-19	Manganese	milligrams per litre	Daily for discharge >2 hrs								
Jun-19	Nitrate + nitrite (oxidised nitrogen)	milligrams per litre	Daily for discharge >2 hrs								
Jun-19	Nitrogen (total)	milligrams per litre	Daily for discharge >2 hrs								No discharge from EPA Point 18 during June 2019
Jun-19	pH	pH	Daily for discharge >2 hrs						6.5 - 9.0		
Jun-19	Phosphorus (total)	milligrams per litre	Daily for discharge >2 hrs								
Jun-19	Selenium	milligrams per litre	Daily for discharge >2 hrs								
Jun-19	Total Kjeldahl Nitrogen	milligrams per litre	Daily for discharge >2 hrs								
Jun-19	Total Suspended Solids	milligrams per litre	Daily for discharge >2 hrs						50		
Jun-19	Zinc	milligrams per litre	Daily for discharge >2 hrs								

POINT 19 Groundwater bore, marked and shown as "VPGM/D3" on the Plan (VX837351, 30.06.2015, DOC15/381265).											
Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Samples Collected & Analysed	Date Sampled	Lowest Sample Value	Mean of Samples	Highest Sample Value	EPL Limit	Exceedance (yes/no)	Comments
Jun-19	Arsenic	milligrams per litre	Quarterly								
Jun-19	Cadmium	milligrams per litre	Quarterly								
Jun-19	Calcium	milligrams per litre	Quarterly								
Jun-19	Chromium	milligrams per litre	Quarterly								
Jun-19	Copper	milligrams per litre	Quarterly								
Jun-19	Electrical conductivity	microsiemens per centimetre	Quarterly								
Jun-19	Iron	milligrams per litre	Quarterly								
Jun-19	Lead	milligrams per litre	Quarterly								
Jun-19	Magnesium	milligrams per litre	Quarterly								(next quarterly sample scheduled for July 2019)
Jun-19	Manganese	milligrams per litre	Quarterly								
Jun-19	Nickel	milligrams per litre	Quarterly								
Jun-19	pH	pH	Quarterly								
Jun-19	Potassium	milligrams per litre	Quarterly								
Jun-19	Selenium	milligrams per litre	Quarterly								
Jun-19	Sodium	milligrams per litre	Quarterly								
Jun-19	Standing Water Level	metres	Quarterly								
Jun-19	Zinc	milligrams per litre	Quarterly								

POINT 20 Groundwater bore, marked and shown as "VPGM/D5" on the Plan (VX837351, 30.06.2015, DOC15/381265).											
Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Samples Collected & Analysed	Date Sampled	Lowest Sample Value	Mean of Samples	Highest Sample Value	EPL Limit	Exceedance (yes/no)	Comments
Jun-19	Arsenic	milligrams per litre	Quarterly								
Jun-19	Cadmium	milligrams per litre	Quarterly								
Jun-19	Calcium	milligrams per litre	Quarterly								
Jun-19	Chromium	milligrams per litre	Quarterly								
Jun-19	Copper	milligrams per litre	Quarterly								
Jun-19	Electrical conductivity	microsiemens per centimetre	Quarterly								
Jun-19	Iron	milligrams per litre	Quarterly								
Jun-19	Lead	milligrams per litre	Quarterly								
Jun-19	Magnesium	milligrams per litre	Quarterly								(next quarterly sample scheduled for July 2019)
Jun-19	Manganese	milligrams per litre	Quarterly								
Jun-19	Nickel	milligrams per litre	Quarterly								
Jun-19	pH	pH	Quarterly								
Jun-19	Potassium	milligrams per litre	Quarterly								
Jun-19	Selenium	milligrams per litre	Quarterly								
Jun-19	Sodium	milligrams per litre	Quarterly								
Jun-19	Standing Water Level	metres	Quarterly								
Jun-19	Zinc	milligrams per litre	Quarterly								

POINT 21 Groundwater bore, marked and shown as "VPGM/D6" on the Plan (VX837351, 30.06.2015, DOC15/381265).											
Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Samples Collected & Analysed	Date Sampled	Lowest Sample Value	Mean of Samples	Highest Sample Value	EPL Limit	Exceedance (yes/no)	Comments
Jun-19	Arsenic	milligrams per litre	Quarterly								
Jun-19	Cadmium	milligrams per litre	Quarterly								
Jun-19	Calcium	milligrams per litre	Quarterly								
Jun-19	Chromium	milligrams per litre	Quarterly								
Jun-19	Copper	milligrams per litre	Quarterly								
Jun-19	Electrical conductivity	microsiemens per centimetre	Quarterly								
Jun-19	Iron	milligrams per litre	Quarterly								
Jun-19	Lead	milligrams per litre	Quarterly								(next quarterly sample scheduled for July 2019)
Jun-19	Magnesium	milligrams per litre	Quarterly								
Jun-19	Manganese	milligrams per litre	Quarterly								
Jun-19	Nickel	milligrams per litre	Quarterly								
Jun-19	pH	pH	Quarterly								
Jun-19	Potassium	milligrams per litre	Quarterly								
Jun-19	Selenium	milligrams per litre	Quarterly								
Jun-19	Sodium	milligrams per litre	Quarterly								
Jun-19	Standing Water Level	metres	Quarterly								
Jun-19	Zinc	milligrams per litre	Quarterly								

POINT 22 Groundwater bore, marked and shown as "VPGM/D8" on the Plan (VX837351, 30.06.2015, DOC15/381265).											
Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Samples Collected & Analysed	Date Sampled	Lowest Sample Value	Mean of Samples	Highest Sample Value	EPL Limit	Exceedance (yes/no)	Comments
Jun-19	Arsenic	milligrams per litre	Quarterly								
Jun-19	Cadmium	milligrams per litre	Quarterly								
Jun-19	Calcium	milligrams per litre	Quarterly								
Jun-19	Chromium	milligrams per litre	Quarterly								
Jun-19	Copper	milligrams per litre	Quarterly								
Jun-19	Electrical conductivity	microsiemens per centimetre	Quarterly								
Jun-19	Iron	milligrams per litre	Quarterly								
Jun-19	Lead	milligrams per litre	Quarterly								
Jun-19	Magnesium	milligrams per litre	Quarterly								(next quarterly sample scheduled for July 2019)
Jun-19	Manganese	milligrams per litre	Quarterly								
Jun-19	Nickel	milligrams per litre	Quarterly								
Jun-19	pH	pH	Quarterly								
Jun-19	Potassium	milligrams per litre	Quarterly								
Jun-19	Selenium	milligrams per litre	Quarterly								
Jun-19	Sodium	milligrams per litre	Quarterly								
Jun-19	Standing Water Level	metres	Quarterly								
Jun-19	Zinc	milligrams per litre	Quarterly								

POINT 23 Groundwater bore, marked and shown as "VPGM/D10" on the Plan (VX837351, 30.06.2015, DOC15/381265).											
Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Samples Collected & Analysed	Date Sampled	Lowest Sample Value	Mean of Samples	Highest Sample Value	EPL Limit	Exceedance (yes/no)	Comments
Jun-19	Arsenic	milligrams per litre	Quarterly								
Jun-19	Cadmium	milligrams per litre	Quarterly								
Jun-19	Calcium	milligrams per litre	Quarterly								
Jun-19	Chromium	milligrams per litre	Quarterly								
Jun-19	Copper	milligrams per litre	Quarterly								
Jun-19	Electrical conductivity	microsiemens per centimetre	Quarterly								
Jun-19	Iron	milligrams per litre	Quarterly								
Jun-19	Lead	milligrams per litre	Quarterly								
Jun-19	Magnesium	milligrams per litre	Quarterly								(next quarterly sample scheduled for July 2019)
Jun-19	Manganese	milligrams per litre	Quarterly								
Jun-19	Nickel	milligrams per litre	Quarterly								
Jun-19	pH	pH	Quarterly								
Jun-19	Potassium	milligrams per litre	Quarterly								
Jun-19	Selenium	milligrams per litre	Quarterly								
Jun-19	Sodium	milligrams per litre	Quarterly								
Jun-19	Standing Water Level	metres	Quarterly								
Jun-19	Zinc	milligrams per litre	Quarterly								

POINT 11 Stack serving Boiler Unit No. 5, marked and shown as "11" on the Plan (VX837351, 30.06.2015, DOC15/381265).											
Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Samples Collected & Analysed	Date Sampled	Lowest Sample Value	Mean of Samples	Highest Sample Value	EPL Limit	Exceedance (yes/no)	Comments
Jun-19	Cadmium	milligrams per cubic metre	Yearly	1					1	No	
Jun-19	Chlorine	milligrams per cubic metre	Yearly	1					200	No	
Jun-19	Copper	milligrams per cubic metre	Yearly	1							
Jun-19	Hydrogen chloride	milligrams per cubic metre	Yearly	1					100	No	
Jun-19	Mercury	milligrams per cubic metre	Yearly	1					1	No	
Jun-19	Moisture	percent	Yearly	1							
Jun-19	Molecular weight of stack gases	grams per gram mole	Yearly	1							
Jun-19	Nitrogen Oxides	milligrams per cubic metre	Continuous	100%	Jun-19	447	643	899	1500	No	
Jun-19	Sulfuric acid mist and sulfur trioxide (as SO3)	milligrams per cubic metre	Yearly	1					100	No	
Jun-19	Sulphur dioxide	parts per million	Continuous	100%	Jun-19	197	291	419	600	No	
Jun-19	Temperature	degrees Celsius	Yearly	1							
Jun-19	Total Fluoride	milligrams per cubic metre	Yearly	1					50	No	
Jun-19	Total Solid Particles	milligrams per cubic metre	Yearly	1					100	No	
Jun-19	Type 1 and Type 2 substances in aggregate	milligrams per cubic metre	Yearly	1					5	No	
Jun-19	Undifferentiated Particulates	milligrams per cubic metre	Continuous	100%	Jun-19	10.5	32.9	43.5			
Jun-19	Velocity	metres per second	Yearly	1							
Jun-19	Volatile organic compounds	parts per million	Yearly	1							
Jun-19	Volumetric flowrate	cubic metres per second	Yearly	1							

POINT 12 Stack serving Boiler Unit No. 6, marked and shown as "12" on the Plan (VX837351, 30.06.2015, DOC15/381265).

Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Samples Collected & Analysed	Date Sampled	Lowest Sample Value	Mean of Samples	Highest Sample Value	EPL Limit	Exceedance (yes/no)	Comments
Jun-19	Cadmium	milligrams per cubic metre	Yearly						1	No	
Jun-19	Chlorine	milligrams per cubic metre	Yearly						200	No	
Jun-19	Copper	milligrams per cubic metre	Yearly								
Jun-19	Hydrogen chloride	milligrams per cubic metre	Yearly						100	No	
Jun-19	Mercury	milligrams per cubic metre	Yearly						1	No	
Jun-19	Moisture	percent	Yearly								
Jun-19	Molecular weight of stack gases	grams per gram mole	Yearly								
Jun-19	Nitrogen Oxides	milligrams per cubic metre	Continuous	100%	Jun-19	487	812	999	1500	No	
Jun-19	Sulfuric acid mist and sulfur trioxide (as SO3)	milligrams per cubic metre	Yearly						100	No	
Jun-19	Sulphur dioxide	parts per million	Continuous	100%	Jun-19	197	283	446	600	No	
Jun-19	Temperature	degrees Celsius	Yearly								
Jun-19	Total Fluoride	milligrams per cubic metre	Yearly						50	No	
Jun-19	Total Solid Particles	milligrams per cubic metre	Yearly						100	No	
Jun-19	Type 1 and Type 2 substances in aggregate	milligrams per cubic metre	Yearly						5	No	
Jun-19	Undifferentiated Particulates	milligrams per cubic metre	Continuous	100%	Jun-19	6.8	7.9	9.5			
Jun-19	Velocity	metres per second	Yearly								
Jun-19	Volatile organic compounds	parts per million	Yearly								
Jun-19	Volumetric flowrate	cubic metres per second	Yearly								

GENERAL COMMENTS