

## Vales Point Power Station Monthly Environmental Data Summary



LICENCE NO	761	<a href="http://www.epa.nsw.gov.au/prpoeoapp/">http://www.epa.nsw.gov.au/prpoeoapp/</a>
LICENCE HOLDER	SUNSET POWER INTERNATIONAL PTY LTD	
REPORTING PERIOD	May 2020	
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
May-20	Chlorine (free residual)	milligrams per litre	Monthly	1	13/5/2020	0.01	0.01	0.01	0.2	No	
May-20	Temperature	degrees celsius	Continuous	100%	May-20	17.7	26.1	32.3	37.5	No	
May-20	Oil and Grease	Visible	Continuous	100%	May-20	NIL	NIL	NIL			No visible oil or grease detected during May 2020.

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
May-20	Ammonia	milligrams per litre	Quarterly								
May-20	Cadmium	milligrams per litre	Quarterly								
May-20	Copper	milligrams per litre	Quarterly								
May-20	Lead	milligrams per litre	Quarterly								
May-20	Manganese	milligrams per litre	Quarterly								
May-20	Nitrate + nitrite (oxidised nitrogen)	milligrams per litre	Monthly	1	13/5/2020	0.04	0.04	0.04			
May-20	Nitrogen (total)	milligrams per litre	Quarterly								
May-20	pH	pH	Monthly	1	13/5/2020	8.79	8.79	8.79	6.5 - 9.5	No	
May-20	Phosphorus (total)	milligrams per litre	Monthly	1	13/5/2020	<0.05	<0.05	<0.05			
May-20	Reactive Phosphorus	milligrams per litre	Monthly	1	13/5/2020	<0.01	<0.01	<0.01			
May-20	Selenium	milligrams per litre	Quarterly								
May-20	Total Kjeldahl Nitrogen	milligrams per litre	Quarterly								
May-20	Total Suspended Solids	milligrams per litre	Fortnightly	2	May-20	2	2	2	50	No	
May-20	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
May-20	Ammonia	milligrams per litre	Quarterly								
May-20	Cadmium	milligrams per litre	Quarterly								
May-20	Copper	milligrams per litre	Quarterly								
May-20	Lead	milligrams per litre	Quarterly								
May-20	Manganese	milligrams per litre	Quarterly								
May-20	Nitrate + nitrite (oxidised nitrogen)	milligrams per litre	Monthly	1	13/5/2020						** Seepage water sampled is captured and pumped back to the ash dam. There was no licence 'discharge to waters' (Manning Bay ) during May 2020.
May-20	Nitrogen (total)	milligrams per litre	Quarterly								
May-20	pH	pH	Monthly	1	13/5/2020						
May-20	Phosphorus (total)	milligrams per litre	Monthly	1	13/5/2020						
May-20	Selenium	milligrams per litre	Quarterly								
May-20	Total Kjeldahl Nitrogen	milligrams per litre	Quarterly								
May-20	Total Suspended Solids	milligrams per litre	Monthly	1	13/5/2020				50	No	
May-20	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
May-20	Ammonia	milligrams per litre	Daily for discharge >2 hrs								
May-20	Cadmium	milligrams per litre	Daily for discharge >2 hrs								
May-20	Copper	milligrams per litre	Daily for discharge >2 hrs								
May-20	Lead	milligrams per litre	Daily for discharge >2 hrs								
May-20	Manganese	milligrams per litre	Daily for discharge >2 hrs								
May-20	Nitrate + nitrite (oxidised nitrogen)	milligrams per litre	Daily for discharge >2 hrs								
May-20	Nitrogen (total)	milligrams per litre	Daily for discharge >2 hrs								
May-20	pH	pH	Daily for discharge >2 hrs						6.5 - 9.0		
May-20	Phosphorus (total)	milligrams per litre	Daily for discharge >2 hrs								
May-20	Selenium	milligrams per litre	Daily for discharge >2 hrs								
May-20	Total Kjeldahl Nitrogen	milligrams per litre	Daily for discharge >2 hrs								
May-20	Total Suspended Solids	milligrams per litre	Daily for discharge >2 hrs						50		
May-20	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
May-20	Arsenic	milligrams per litre	Quarterly								
May-20	Cadmium	milligrams per litre	Quarterly								
May-20	Calcium	milligrams per litre	Quarterly								
May-20	Chromium	milligrams per litre	Quarterly								
May-20	Copper	milligrams per litre	Quarterly								
May-20	Electrical conductivity	microsiemens per centimetre	Quarterly								
May-20	Iron	milligrams per litre	Quarterly								
May-20	Lead	milligrams per litre	Quarterly								
May-20	Magnesium	milligrams per litre	Quarterly								(next quarterly sample scheduled for July 2020)
May-20	Manganese	milligrams per litre	Quarterly								
May-20	Nickel	milligrams per litre	Quarterly								
May-20	pH	pH	Quarterly								
May-20	Potassium	milligrams per litre	Quarterly								
May-20	Selenium	milligrams per litre	Quarterly								
May-20	Sodium	milligrams per litre	Quarterly								
May-20	Standing Water Level	metres	Quarterly								
May-20	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
May-20	Arsenic	milligrams per litre	Quarterly								
May-20	Cadmium	milligrams per litre	Quarterly								
May-20	Calcium	milligrams per litre	Quarterly								
May-20	Chromium	milligrams per litre	Quarterly								
May-20	Copper	milligrams per litre	Quarterly								
May-20	Electrical conductivity	microsiemens per centimetre	Quarterly								
May-20	Iron	milligrams per litre	Quarterly								
May-20	Lead	milligrams per litre	Quarterly								
May-20	Magnesium	milligrams per litre	Quarterly								(next quarterly sample scheduled for July 2020)
May-20	Manganese	milligrams per litre	Quarterly								
May-20	Nickel	milligrams per litre	Quarterly								
May-20	pH	pH	Quarterly								
May-20	Potassium	milligrams per litre	Quarterly								
May-20	Selenium	milligrams per litre	Quarterly								
May-20	Sodium	milligrams per litre	Quarterly								
May-20	Standing Water Level	metres	Quarterly								
May-20	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
May-20	Arsenic	milligrams per litre	Quarterly	1	13/05/2020	0.0003	0.0003	0.0003			
May-20	Cadmium	milligrams per litre	Quarterly	1	13/05/2020	0.00005	0.00005	0.00005			
May-20	Calcium	milligrams per litre	Quarterly	1	13/05/2020	4	4	4			
May-20	Chromium	milligrams per litre	Quarterly	1	13/05/2020	0.0009	0.0009	0.0009			
May-20	Copper	milligrams per litre	Quarterly	1	13/05/2020	0.0005	0.0005	0.0005			
May-20	Electrical conductivity	microsiemens per centimetre	Quarterly	1	13/05/2020	768	768	768			
May-20	Iron	milligrams per litre	Quarterly	1	13/05/2020	7.17	7.17	7.17			
May-20	Lead	milligrams per litre	Quarterly	1	13/05/2020	0.0002	0.0002	0.0002			Incorrect bore sampled during previous month. Additional sample taken in May 2020.
May-20	Magnesium	milligrams per litre	Quarterly	1	13/05/2020	12	12	12			
May-20	Manganese	milligrams per litre	Quarterly	1	13/05/2020	0.0616	0.0616	0.0616			
May-20	Nickel	milligrams per litre	Quarterly	1	13/05/2020	0.0038	0.0038	0.0038			
May-20	pH	pH	Quarterly	1	13/05/2020	6.1	6.1	6.1			
May-20	Potassium	milligrams per litre	Quarterly	1	13/05/2020	3	3	3			
May-20	Selenium	milligrams per litre	Quarterly	1	13/05/2020	0.0003	0.0003	0.0003			
May-20	Sodium	milligrams per litre	Quarterly	1	13/05/2020	67	67	67			
May-20	Standing Water Level	metres	Quarterly	1	13/05/2020	2.62	2.62	2.62			
May-20	Zinc	milligrams per litre	Quarterly	1	13/05/2020	0.017	0.017	0.017			

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	
May-20	Arsenic	milligrams per litre	Quarterly									
May-20	Cadmium	milligrams per litre	Quarterly									
May-20	Calcium	milligrams per litre	Quarterly									
May-20	Chromium	milligrams per litre	Quarterly									
May-20	Copper	milligrams per litre	Quarterly									
May-20	Electrical conductivity	microsiemens per centimetre	Quarterly									
May-20	Iron	milligrams per litre	Quarterly									
May-20	Lead	milligrams per litre	Quarterly									
May-20	Magnesium	milligrams per litre	Quarterly								(next quarterly sample scheduled for July 2020)	
May-20	Manganese	milligrams per litre	Quarterly									
May-20	Nickel	milligrams per litre	Quarterly									
May-20	pH	pH	Quarterly									
May-20	Potassium	milligrams per litre	Quarterly									
May-20	Selenium	milligrams per litre	Quarterly									
May-20	Sodium	milligrams per litre	Quarterly									
May-20	Standing Water Level	metres	Quarterly									
May-20	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	
May-20	Arsenic	milligrams per litre	Quarterly									
May-20	Cadmium	milligrams per litre	Quarterly									
May-20	Calcium	milligrams per litre	Quarterly									
May-20	Chromium	milligrams per litre	Quarterly									
May-20	Copper	milligrams per litre	Quarterly									
May-20	Electrical conductivity	microsiemens per centimetre	Quarterly									
May-20	Iron	milligrams per litre	Quarterly									
May-20	Lead	milligrams per litre	Quarterly									
May-20	Magnesium	milligrams per litre	Quarterly								(next quarterly sample scheduled for July 2020)	
May-20	Manganese	milligrams per litre	Quarterly									
May-20	Nickel	milligrams per litre	Quarterly									
May-20	pH	pH	Quarterly									
May-20	Potassium	milligrams per litre	Quarterly									
May-20	Selenium	milligrams per litre	Quarterly									
May-20	Sodium	milligrams per litre	Quarterly									
May-20	Standing Water Level	metres	Quarterly									
May-20	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	
May-20	Cadmium	milligrams per cubic metre	Yearly						1	No		
May-20	Chlorine	milligrams per cubic metre	Yearly						200	No		
May-20	Copper	milligrams per cubic metre	Yearly									
May-20	Hydrogen chloride	milligrams per cubic metre	Yearly						100	No		
May-20	Mercury	milligrams per cubic metre	Yearly						1	No		
May-20	Moisture	percent	Yearly									
May-20	Molecular weight of stack gases	grams per gram mole	Yearly									
May-20	Nitrogen Oxides	milligrams per cubic metre	Continuous	100%	May-20	393	654	879	1500	No		
May-20	Sulfuric acid mist and sulfur trioxide (as SO3)	milligrams per cubic metre	Yearly						100	No		
May-20	Sulphur dioxide	parts per million	Continuous	100%	May-20	187	231	298	600	No		
May-20	Temperature	degrees Celsius	Yearly									
May-20	Total Fluoride	milligrams per cubic metre	Yearly						50	No		
May-20	Total Solid Particles	milligrams per cubic metre	Yearly						100	No		
May-20	Type 1 and Type 2 substances in aggregate	milligrams per cubic metre	Yearly						5	No		
May-20	Undifferentiated Particulates	milligrams per cubic metre	Continuous	100%	May-20	17.4	22.4	31.7				
May-20	Velocity	metres per second	Yearly									
May-20	Volatile organic compounds	parts per million	Yearly									
May-20	Volumetric flowrate	cubic metres per second	Yearly									

**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
May-20	Cadmium	milligrams per cubic metre	Yearly						1	No	
May-20	Chlorine	milligrams per cubic metre	Yearly						200	No	
May-20	Copper	milligrams per cubic metre	Yearly								
May-20	Hydrogen chloride	milligrams per cubic metre	Yearly						100	No	
May-20	Mercury	milligrams per cubic metre	Yearly						1	No	
May-20	Moisture	percent	Yearly								
May-20	Molecular weight of stack gases	grams per gram mole	Yearly								
May-20	Nitrogen Oxides	milligrams per cubic metre	Continuous	100%	May-20	501	708	1038	1500	No	
May-20	Sulfuric acid mist and sulfur trioxide (as SO3)	milligrams per cubic metre	Yearly						100	No	
May-20	Sulphur dioxide	parts per million	Continuous	100%	May-20	187	237	307	600	No	
May-20	Temperature	degrees Celsius	Yearly								
May-20	Total Fluoride	milligrams per cubic metre	Yearly						50	No	
May-20	Total Solid Particles	milligrams per cubic metre	Yearly						100	No	
May-20	Type 1 and Type 2 substances in aggregate	milligrams per cubic metre	Yearly						5	No	
May-20	Undifferentiated Particulates	milligrams per cubic metre	Continuous	100%	May-20	2.7	6.2	10.0			
May-20	Velocity	metres per second	Yearly								
May-20	Volatile organic compounds	parts per million	Yearly								
May-20	Volumetric flowrate	cubic metres per second	Yearly								

**GENERAL COMMENTS**