

## 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	February 2024	
ADDRESS	VALES ROAD, MANNERING PARK NSW	

### POINT 2 Combined air emissions from boiler 5 via Points 4 to 7 to Point 1 marked and shown as EPA ID 2 on The Plans ("VX837351-1 AND "VX837351-2" 03/06/2020 EPA REFERENCE DOC20/476695 AND DOC20/476695-1).

Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Samples Collected & Analysed	Date Sampled	Lowest Sample Value	Mean of Samples	Highest Sample Value	99 Percentile Concentration Limit	100 Percentile Concentration Limit	Exceed 100% Limit (yes/no)	Comments
Feb-24	Cadmium	(mg/m <sup>3</sup> )	Every 6 months							0.2	No	
Feb-24	Chlorine	(mg/m <sup>3</sup> )	Every 6 months							20	No	
Feb-24	Fluorine	(mg/m <sup>3</sup> )	Every 6 months							30	No	
Feb-24	Hydrogen chloride	(mg/m <sup>3</sup> )	Every 6 months							50	No	
Feb-24	Mercury	(mg/m <sup>3</sup> )	Every 6 months							0.05	No	
Feb-24	Nitrogen Oxides	(mg/m <sup>3</sup> )	Continuous	85.8%	Feb-24	522	662	862	850	980	No	
Feb-24	Solid Particles	(mg/m <sup>3</sup> )	Quarterly							50	No	
Feb-24	Sulfur dioxide	(mg/m <sup>3</sup> )	Continuous	86.5%	Feb-24	523	844	1078	1400	1700	No	
Feb-24	Sulfuric acid mist and sulfur trioxide (as SO <sub>3</sub> )	(mg/m <sup>3</sup> )	Every 6 months							100	No	
Feb-24	Type 1 and Type 2 substances in aggregate	(mg/m <sup>3</sup> )	Every 6 months							0.75	No	
Feb-24	VOC's as n-propane equivalent	(mg/m <sup>3</sup> )	Every 6 months							10	No	

### POINT 3 Combined air emissions from boiler 6 via Points 8 to 11 to Point 1 marked and shown as EPA ID 3 on The Plans ("VX837351-1 AND "VX837351-2" 03/06/2020 EPA REFERENCE DOC20/476695 AND DOC20/476695-1).

Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Samples Collected & Analysed	Date Sampled	Lowest Sample Value	Mean of Samples	Highest Sample Value	99 Percentile Concentration Limit	100 Percentile Concentration Limit	Exceed 100% Limit (yes/no)	Comments
Feb-24	Cadmium	(mg/m <sup>3</sup> )	Every 6 months							0.2	No	
Feb-24	Chlorine	(mg/m <sup>3</sup> )	Every 6 months							20	No	
Feb-24	Fluorine	(mg/m <sup>3</sup> )	Every 6 months							30	No	
Feb-24	Hydrogen chloride	(mg/m <sup>3</sup> )	Every 6 months							50	No	
Feb-24	Mercury	(mg/m <sup>3</sup> )	Every 6 months							0.05	No	
Feb-24	Nitrogen Oxides	(mg/m <sup>3</sup> )	Continuous	98.0%	Feb-24	428	612	822	850	980	No	
Feb-24	Solid Particles	(mg/m <sup>3</sup> )	Quarterly							50	No	
Feb-24	Sulfur dioxide	(mg/m <sup>3</sup> )	Continuous	100.0%	Feb-24	677	844	1309	1400	1700	No	
Feb-24	Sulfuric acid mist and sulfur trioxide (as SO <sub>3</sub> )	(mg/m <sup>3</sup> )	Every 6 months							100	No	
Feb-24	Type 1 and Type 2 substances in aggregate	(mg/m <sup>3</sup> )	Every 6 months							0.75	No	
Feb-24	VOC's as n-propane equivalent	(mg/m <sup>3</sup> )	Every 6 months							10	No	

### POINT 4 Boiler number 5 exhaust - duct A marked and shown as EPA ID 4 on The Plans ("VX837351-1 AND "VX837351-2" 03/06/2020 EPA REFERENCE DOC20/476695 AND DOC20/476695-1).

Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Samples Collected & Analysed	Date Sampled	Lowest Sample Value	Mean of Samples	Highest Sample Value	99 Percentile Concentration Limit	100 Percentile Concentration Limit	Exceedance (yes/no)	Comments
Feb-24	Cadmium	(mg/m <sup>3</sup> )	Every 6 months								N/A	
Feb-24	Carbon dioxide	(%)	Every 6 months								N/A	
Feb-24	Chlorine	(mg/m <sup>3</sup> )	Every 6 months								N/A	
Feb-24	Fluorine	(mg/m <sup>3</sup> )	Every 6 months								N/A	
Feb-24	Hydrogen chloride	(mg/m <sup>3</sup> )	Every 6 months								N/A	
Feb-24	Mercury	(mg/m <sup>3</sup> )	Every 6 months								N/A	
Feb-24	Solid Particles	(mg/m <sup>3</sup> )	Quarterly								N/A	
Feb-24	Sulfuric acid mist and sulfur trioxide (as SO <sub>3</sub> )	(mg/m <sup>3</sup> )	Every 6 months								N/A	
Feb-24	Type 1 and Type 2 substances in aggregate	(mg/m <sup>3</sup> )	Every 6 months								N/A	
Feb-24	VOC's as n-propane equivalent	(mg/m <sup>3</sup> )	Every 6 months								N/A	

**POINT 5 Boiler number 5 exhaust - duct B marked and shown as EPA ID 5 on The Plans ("VX837351-1 AND "VX837351-2" 03/06/2020 EPA REFERENCE DOC20/476695 AND DOC20/476695-1).**

Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Samples Collected & Analysed	Date Sampled	Lowest Sample Value	Mean of Samples	Highest Sample Value	99 Percentile Concentration Limit	100 Percentile Concentration Limit	Exceedance (yes/no)	Comments
Feb-24	Cadmium	(mg/m3)	Every 6 months								N/A	
Feb-24	Mercury	(mg/m3)	Every 6 months								N/A	
Feb-24	Solid Particles	(mg/m3)	Quarterly								N/A	
Feb-24	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months								N/A	

**POINT 6 Boiler number 5 exhaust - duct C marked and shown as EPA ID 6 on The Plans ("VX837351-1 AND "VX837351-2" 03/06/2020 EPA REFERENCE DOC20/476695 AND DOC20/476695-1).**

Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Samples Collected & Analysed	Date Sampled	Lowest Sample Value	Mean of Samples	Highest Sample Value	99 Percentile Concentration Limit	100 Percentile Concentration Limit	Exceedance (yes/no)	Comments
Feb-24	Cadmium	(mg/m3)	Every 6 months								N/A	
Feb-24	Carbon dioxide	(%)	Every 6 months								N/A	
Feb-24	Chlorine	(mg/m3)	Every 6 months								N/A	
Feb-24	Fluorine	(mg/m3)	Every 6 months								N/A	
Feb-24	Hydrogen chloride	(mg/m3)	Every 6 months								N/A	
Feb-24	Mercury	(mg/m3)	Every 6 months								N/A	
Feb-24	Solid Particles	(mg/m3)	Quarterly								N/A	
Feb-24	Sulfuric acid mist and sulfur trioxide (as SO3)	(mg/m3)	Every 6 months								N/A	
Feb-24	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months								N/A	
Feb-24	VOC's as n-propane equivalent	(mg/m3)	Every 6 months								N/A	

**POINT 7 Boiler number 5 exhaust - duct D marked and shown as EPA ID 7 on The Plans ("VX837351-1 AND "VX837351-2" 03/06/2020 EPA REFERENCE DOC20/476695 AND DOC20/476695-1).**

Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Samples Collected & Analysed	Date Sampled	Lowest Sample Value	Mean of Samples	Highest Sample Value	99 Percentile Concentration Limit	100 Percentile Concentration Limit	Exceedance (yes/no)	Comments
Feb-24	Cadmium	(mg/m3)	Every 6 months								N/A	
Feb-24	Mercury	(mg/m3)	Every 6 months								N/A	
Feb-24	Solid Particles	(mg/m3)	Quarterly								N/A	
Feb-24	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months								N/A	

**POINT 8 Boiler number 6 exhaust - duct A marked and shown as EPA ID 8 on The Plans ("VX837351-1 AND "VX837351-2" 03/06/2020 EPA REFERENCE DOC20/476695 AND DOC20/476695-1).**

Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Samples Collected & Analysed	Date Sampled	Lowest Sample Value	Mean of Samples	Highest Sample Value	99 Percentile Concentration Limit	100 Percentile Concentration Limit	Exceedance (yes/no)	Comments
Feb-24	Cadmium	(mg/m3)	Every 6 months								N/A	
Feb-24	Carbon dioxide	(%)	Every 6 months								N/A	
Feb-24	Chlorine	(mg/m3)	Every 6 months								N/A	
Feb-24	Fluorine	(mg/m3)	Every 6 months								N/A	
Feb-24	Hydrogen chloride	(mg/m3)	Every 6 months								N/A	
Feb-24	Mercury	(mg/m3)	Every 6 months								N/A	
Feb-24	Solid Particles	(mg/m3)	Quarterly								N/A	
Feb-24	Sulfuric acid mist and sulfur trioxide (as SO3)	(mg/m3)	Every 6 months								N/A	
Feb-24	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months								N/A	
Feb-24	VOC's as n-propane equivalent	(mg/m3)	Every 6 months								N/A	

**POINT 9 Boiler number 6 exhaust - duct B marked and shown as EPA ID 9 on The Plans ("VX837351-1 AND "VX837351-2" 03/06/2020 EPA REFERENCE DOC20/476695 AND DOC20/476695-1).**

Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Samples Collected & Analysed	Date Sampled	Lowest Sample Value	Mean of Samples	Highest Sample Value	99 Percentile Concentration Limit	100 Percentile Concentration Limit	Exceedance (yes/no)	Comments
Feb-24	Cadmium	(mg/m3)	Every 6 months								N/A	
Feb-24	Mercury	(mg/m3)	Every 6 months								N/A	
Feb-24	Solid Particles	(mg/m3)	Quarterly								N/A	
Feb-24	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months								N/A	

POINT 10 Boiler number 6 exhaust - duct C marked and shown as EPA ID 10 on The Plans ("VX837351-1 AND "VX837351-2" 03/06/2020 EPA REFERENCE DOC20/476695 AND DOC20/476695-1).												
Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Samples Collected & Analysed	Date Sampled	Lowest Sample Value	Mean of Samples	Highest Sample Value	99 Percentile Concentration Limit	100 Percentile Concentration Limit	Exceedance (yes/no)	Comments
Feb-24	Cadmium	(mg/m3)	Every 6 months								N/A	
Feb-24	Carbon dioxide	(%)	Every 6 months								N/A	
Feb-24	Chlorine	(mg/m3)	Every 6 months								N/A	
Feb-24	Fluorine	(mg/m3)	Every 6 months								N/A	
Feb-24	Hydrogen chloride	(mg/m3)	Every 6 months								N/A	
Feb-24	Mercury	(mg/m3)	Every 6 months								N/A	
Feb-24	Solid Particles	(mg/m3)	Quarterly								N/A	
Feb-24	Sulfuric acid mist and sulfur trioxide (as SO3)	(mg/m3)	Every 6 months								N/A	
Feb-24	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months								N/A	
Feb-24	VOC's as n-propane equivalent	(mg/m3)	Every 6 months								N/A	

POINT 11 Boiler number 6 exhaust - duct D marked and shown as EPA ID 11 on The Plans ("VX837351-1 AND "VX837351-2" 03/06/2020 EPA REFERENCE DOC20/476695 AND DOC20/476695-1).												
Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Samples Collected & Analysed	Date Sampled	Lowest Sample Value	Mean of Samples	Highest Sample Value	99 Percentile Concentration Limit	100 Percentile Concentration Limit	Exceedance (yes/no)	Comments
Feb-24	Cadmium	(mg/m3)	Every 6 months								N/A	
Feb-24	Mercury	(mg/m3)	Every 6 months								N/A	
Feb-24	Solid Particles	(mg/m3)	Quarterly								N/A	
Feb-24	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months								N/A	

POINT 12 Boiler number 5 combined exhaust - duct A and B (points 4 and 5) marked and shown as EPA ID 12 on The Plans ("VX837351-1 AND "VX837351-2" 03/06/2020 EPA REFERENCE DOC20/476695 AND DOC20/476695-1).												
Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Samples Collected & Analysed	Date Sampled	Lowest Sample Value	Mean of Samples	Highest Sample Value	99 Percentile Concentration Limit	100 Percentile Concentration Limit	Exceedance (yes/no)	Comments
Feb-24	Nitrogen Oxides	(mg/m3)	Continuous	72.3%	Feb-24	503	645	830			N/A	
Feb-24	Sulfur dioxide	(mg/m3)	Continuous	73.0%	Feb-24	523	787	1021			N/A	

POINT 13 Boiler number 5 combined exhaust - duct C and D (points 6 and 7) marked and shown as EPA ID 13 on The Plans ("VX837351-1 AND "VX837351-2" 03/06/2020 EPA REFERENCE DOC20/476695 AND DOC20/476695-1).												
Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Samples Collected & Analysed	Date Sampled	Lowest Sample Value	Mean of Samples	Highest Sample Value	99 Percentile Concentration Limit	100 Percentile Concentration Limit	Exceedance (yes/no)	Comments
Feb-24	Nitrogen Oxides	(mg/m3)	Continuous	99.3%	Feb-24	495	679	894			N/A	
Feb-24	Sulfur dioxide	(mg/m3)	Continuous	100.0%	Feb-24	442	902	1354			N/A	

POINT 14 Boiler number 6 combined exhaust - duct A and B (points 8 and 9) marked and shown as EPA ID 14 on The Plans ("VX837351-1 AND "VX837351-2" 03/06/2020 EPA REFERENCE DOC20/476695 AND DOC20/476695-1).												
Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Samples Collected & Analysed	Date Sampled	Lowest Sample Value	Mean of Samples	Highest Sample Value	99 Percentile Concentration Limit	100 Percentile Concentration Limit	Exceedance (yes/no)	Comments
Feb-24	Nitrogen Oxides	(mg/m3)	Continuous	99.3%	Feb-24	466	673	941			N/A	
Feb-24	Sulfur dioxide	(mg/m3)	Continuous	100.0%	Feb-24	717	907	1402			N/A	

POINT 15 Boiler number 6 combined exhaust - duct C and D (points 10 and 11) marked and shown as EPA ID 12 on The Plans ("VX837351-1 AND "VX837351-2" 03/06/2020 EPA REFERENCE DOC20/476695 AND DOC20/476695-1).												
Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Samples Collected & Analysed	Date Sampled	Lowest Sample Value	Mean of Samples	Highest Sample Value	99 Percentile Concentration Limit	100 Percentile Concentration Limit	Exceedance (yes/no)	Comments
Feb-24	Nitrogen Oxides	(mg/m3)	Continuous	96.7%	Feb-24	337	551	829			N/A	
Feb-24	Sulfur dioxide	(mg/m3)	Continuous	100.0%	Feb-24	565	782	1217			N/A	

**POINT 22 Discharge of cooling water from the cooling water outlet canal to Wye Bay marked and shown as EPA ID 22 on The Plans ("VX837351-1 AND "VX837351-2" 03/06/2020 EPA REFERENCE DOC20/476695 AND DOC20/476695-1).**

Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Samples Collected & Analysed	Date Sampled	Lowest Sample Value	Mean of Samples	Highest Sample Value	98.5 Percentile Concentration Limit	100 Percentile Concentration Limit	Exceed 100% Limit (yes/no)	Comments
Feb-24	Chlorine (free residual)	(mg/L)	Monthly during discharge	1	6/02/2024	0	0	0		0.2	No	
Feb-24	Copper	(mg/L)	Monthly during discharge	1	6/02/2024	0.001	0.001	0.001		0.005	No	
Feb-24	Iron	(mg/L)	Monthly during discharge	1	6/02/2024	0.130	0.130	0.130		0.3	No	
Feb-24	Oil and Grease	Visible	Continuous during discharge	100%	Feb-24	NIL	NIL	NIL				
Feb-24	Selenium	(mg/L)	Monthly during discharge	1	6/02/2024	0.002	0.002	0.002		0.005	No	
Feb-24	Temperature	(°C)	Continuous during discharge	100%	Feb-24	29.8	32.0	36.6	35	37.5	No	

**POINT 23 Discharge of supernatant water from the ash dam to the cooling water outlet canal to Wye Bay marked and shown as EPA ID 23 on The Plans ("VX837351-1 AND "VX837351-2" 03/06/2020 EPA REFERENCE DOC20/476695 AND DOC20/476695-1).**

Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Samples Collected & Analysed	Date Sampled	Lowest Sample Value	Mean of Samples	Highest Sample Value	99 Percentile Concentration Limit	100 Percentile Concentration Limit	Exceedance (yes/no)	Comments
Feb-24	Aluminium	(mg/L)	Monthly during discharge	1	6/02/2024	0.03	0.03	0.03				
Feb-24	Ammonia	(mg/L)	Monthly during discharge	1	6/02/2024	0.160	0.160	0.160				
Feb-24	Arsenic (III)	(mg/L)	Monthly during discharge	1	6/02/2024	<0.001	<0.001	<0.001				
Feb-24	Arsenic (V)	(mg/L)	Monthly during discharge	1	6/02/2024	0.016	0.016	0.016				
Feb-24	Cadmium	(mg/L)	Monthly during discharge	1	6/02/2024	0.0003	0.0003	0.0003				
Feb-24	Chromium (trivalent)	(mg/L)	Monthly during discharge	1	6/02/2024	0.010	0.010	0.010				
Feb-24	Chromium (VI) Compounds	(mg/L)	Monthly during discharge	1	6/02/2024	0.049	0.049	0.049				
Feb-24	Copper	(mg/L)	Monthly during discharge	1	6/02/2024	<0.001	<0.001	<0.001				
Feb-24	Iron	(mg/L)	Monthly during discharge	1	6/02/2024	0.020	0.020	0.020				
Feb-24	Lead	(mg/L)	Monthly during discharge	1	6/02/2024	<0.001	<0.001	<0.001				
Feb-24	Manganese	(mg/L)	Monthly during discharge	1	6/02/2024	<0.005	<0.005	<0.005				
Feb-24	Nickel	(mg/L)	Monthly during discharge	1	6/02/2024	0.001	0.001	0.001				
Feb-24	Nitrate + nitrite (oxidised nitrogen)	(mg/L)	Monthly during discharge	1	6/02/2024	0.204	0.204	0.204				
Feb-24	Nitrogen	(mg/L)	Monthly during discharge	1	6/02/2024	0.40	0.40	0.40				
Feb-24	pH	pH	Monthly during discharge	1	6/02/2024	8.6	8.6	8.6		6.5 - 9.5	No	
Feb-24	Phosphorus	(mg/L)	Monthly during discharge	1	6/02/2024	0.40	0.40	0.40				
Feb-24	Reactive Phosphorus	(mg/L)	Monthly during discharge	1	6/02/2024	0.41	0.41	0.41				
Feb-24	Selenium	(mg/L)	Monthly during discharge	1	6/02/2024	0.098	0.098	0.098				
Feb-24	Total Kjeldahl Nitrogen	(mg/L)	Monthly during discharge	1	6/02/2024	0.2	0.2	0.2				
Feb-24	Total Suspended Solids	(mg/L)	Monthly during discharge	1	6/02/2024	<5	<5	<5		50	No	
Feb-24	Vanadium	(mg/L)	Monthly during discharge	1	6/02/2024	0.17	0.17	0.17				
Feb-24	Zinc	(mg/L)	Monthly during discharge	1	6/02/2024	0.011	0.011	0.011				

POINT 24 Discharge of seepage water from the ash dam rehabilitation area to Mannering Bay marked and shown as EPA ID 24 on The Plans ("VX837351-1 AND "VX837351-2" 03/06/2020 EPA REFERENCE DOC20/476695 AND DOC20/476695-1).												
Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Samples Collected & Analysed	Date Sampled	Lowest Sample Value	Mean of Samples	Highest Sample Value	Discharge (yes/no)	100 Percentile Concentration Limit	Exceedance (yes/no)	Comments
Feb-24	Aluminium	(mg/L)	Monthly during discharge	1	6/02/2024				No			
Feb-24	Ammonia	(mg/L)	Monthly during discharge	1	6/02/2024				No			
Feb-24	Arsenic (III)	(mg/L)	Monthly during discharge	1	6/02/2024				No			
Feb-24	Arsenic (V)	(mg/L)	Monthly during discharge	1	6/02/2024				No			
Feb-24	Cadmium	(mg/L)	Monthly during discharge	1	6/02/2024				No			
Feb-24	Chromium (trivalent)	(mg/L)	Monthly during discharge	1	6/02/2024				No			
Feb-24	Chromium (VI) Compounds	(mg/L)	Monthly during discharge	1	6/02/2024				No			
Feb-24	Copper	(mg/L)	Monthly during discharge	1	6/02/2024				No			
Feb-24	Iron	(mg/L)	Monthly during discharge	1	6/02/2024				No			
Feb-24	Lead	(mg/L)	Monthly during discharge	1	6/02/2024				No			
Feb-24	Manganese	(mg/L)	Monthly during discharge	1	6/02/2024				No			
Feb-24	Nickel	(mg/L)	Monthly during discharge	1	6/02/2024				No			No discharge from EPA Point 24 during February 2024
Feb-24	Nitrate + nitrite (oxidised nitrogen)	(mg/L)	Monthly during discharge	1	6/02/2024				No			
Feb-24	Nitrogen	(mg/L)	Monthly during discharge	1	6/02/2024				No			
Feb-24	pH	pH	Monthly during discharge	1	6/02/2024				No	6.5 - 9.5	No	
Feb-24	Phosphorus	(mg/L)	Monthly during discharge	1	6/02/2024				No			
Feb-24	Reactive Phosphorus	(mg/L)	Monthly during discharge	1	6/02/2024				No			
Feb-24	Selenium	(mg/L)	Monthly during discharge	1	6/02/2024				No			
Feb-24	Total Kjeldahl Nitrogen	(mg/L)	Monthly during discharge	1	6/02/2024				No			
Feb-24	Total Suspended Solids	(mg/L)	Monthly during discharge	1	6/02/2024				No	50	No	
Feb-24	Vanadium	(mg/L)	Monthly during discharge	1	6/02/2024				No			
Feb-24	Zinc	(mg/L)	Monthly during discharge	1	6/02/2024				No			

POINT 25 Discharge of over boarded water from the ash dam to Mannering Bay marked and shown as EPA ID 25 on The Plans ("VX837351-1 AND "VX837351-2" 03/06/2020 EPA REFERENCE DOC20/476695 AND DOC20/476695-1).												
Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Samples Collected & Analysed	Date Sampled	Lowest Sample Value	Mean of Samples	Highest Sample Value	Discharge (yes/no)	100 Percentile Concentration Limit	Exceedance (yes/no)	Comments
Feb-24	Aluminium	(mg/L)	Daily for any discharge >2 hrs						No			
Feb-24	Ammonia	(mg/L)	Daily for any discharge >2 hrs						No			
Feb-24	Arsenic (III)	(mg/L)	Daily for any discharge >2 hrs						No			
Feb-24	Arsenic (V)	(mg/L)	Daily for any discharge >2 hrs						No			
Feb-24	Cadmium	(mg/L)	Daily for any discharge >2 hrs						No			
Feb-24	Chromium (trivalent)	(mg/L)	Daily for any discharge >2 hrs						No			
Feb-24	Chromium (VI) Compounds	(mg/L)	Daily for any discharge >2 hrs						No			
Feb-24	Copper	(mg/L)	Daily for any discharge >2 hrs						No			
Feb-24	Iron	(mg/L)	Daily for any discharge >2 hrs						No			
Feb-24	Lead	(mg/L)	Daily for any discharge >2 hrs						No			
Feb-24	Manganese	(mg/L)	Daily for any discharge >2 hrs						No			No discharge from EPA Point 25 during February 2024
Feb-24	Nickel	(mg/L)	Daily for any discharge >2 hrs						No			
Feb-24	Nitrate + nitrite (oxidised nitrogen)	(mg/L)	Daily for any discharge >2 hrs						No			
Feb-24	Nitrogen	(mg/L)	Daily for any discharge >2 hrs						No			
Feb-24	pH	pH	Daily for any discharge >2 hrs						No	6.5 - 9.5	No	
Feb-24	Phosphorus	(mg/L)	Daily for any discharge >2 hrs						No			
Feb-24	Reactive Phosphorus	(mg/L)	Daily for any discharge >2 hrs						No			
Feb-24	Selenium	(mg/L)	Daily for any discharge >2 hrs						No			
Feb-24	Total Kjeldahl Nitrogen	(mg/L)	Daily for any discharge >2 hrs						No			
Feb-24	Total Suspended Solids	(mg/L)	Daily for any discharge >2 hrs						No	50	No	
Feb-24	Vanadium	(mg/L)	Daily for any discharge >2 hrs						No			
Feb-24	Zinc	(mg/L)	Daily for any discharge >2 hrs						No			

**POINT 30** Groundwater quality monitoring bore marked and shown as EPA ID 30 on The Plans ("VX837351-1 AND "VX837351-2" 03/06/2020 EPA REFERENCE DOC20/476695 AND DOC20/476695-1).

Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Samples Collected & Analysed	Date Sampled	Lowest Sample Value	Mean of Samples	Highest Sample Value	99 Percentile Concentration Limit	100 Percentile Concentration Limit	Exceedance (yes/no)	Comments
Feb-24	Aluminium	(mg/L)	Quarterly									
Feb-24	Ammonia	(mg/L)	Quarterly									
Feb-24	Arsenic (III)	(mg/L)	Quarterly									
Feb-24	Arsenic (V)	(mg/L)	Quarterly									
Feb-24	Cadmium	(mg/L)	Quarterly									
Feb-24	Chromium (trivalent)	(mg/L)	Quarterly									
Feb-24	Chromium (VI) Compounds	(mg/L)	Quarterly									
Feb-24	Copper	(mg/L)	Quarterly									
Feb-24	Electrical Conductivity	(us/cm)	Quarterly									
Feb-24	Iron	(mg/L)	Quarterly									
Feb-24	Lead	(mg/L)	Quarterly									
Feb-24	Magnesium	(mg/L)	Quarterly									Next sample scheduled for April 2024
Feb-24	Manganese	(mg/L)	Quarterly									
Feb-24	Nickel	(mg/L)	Quarterly									
Feb-24	pH	pH	Quarterly									
Feb-24	Potassium	(mg/L)	Quarterly									
Feb-24	Selenium	(mg/L)	Quarterly									
Feb-24	Sodium	(mg/L)	Quarterly									
Feb-24	Standing Water Level	(m)	Quarterly									
Feb-24	Vanadium	(mg/L)	Quarterly									
Feb-24	Zinc	(mg/L)	Quarterly									

**POINT 31** Groundwater quality monitoring bore marked and shown as EPA ID 31 on The Plans ("VX837351-1 AND "VX837351-2" 03/06/2020 EPA REFERENCE DOC20/476695 AND DOC20/476695-1).

Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Samples Collected & Analysed	Date Sampled	Lowest Sample Value	Mean of Samples	Highest Sample Value	99 Percentile Concentration Limit	100 Percentile Concentration Limit	Exceedance (yes/no)	Comments
Feb-24	Aluminium	(mg/L)	Quarterly									
Feb-24	Ammonia	(mg/L)	Quarterly									
Feb-24	Arsenic (III)	(mg/L)	Quarterly									
Feb-24	Arsenic (V)	(mg/L)	Quarterly									
Feb-24	Cadmium	(mg/L)	Quarterly									
Feb-24	Chromium (trivalent)	(mg/L)	Quarterly									
Feb-24	Chromium (VI) Compounds	(mg/L)	Quarterly									
Feb-24	Copper	(mg/L)	Quarterly									
Feb-24	Electrical Conductivity	(us/cm)	Quarterly									
Feb-24	Iron	(mg/L)	Quarterly									
Feb-24	Lead	(mg/L)	Quarterly									
Feb-24	Magnesium	(mg/L)	Quarterly									Next sample scheduled for April 2024
Feb-24	Manganese	(mg/L)	Quarterly									
Feb-24	Nickel	(mg/L)	Quarterly									
Feb-24	pH	pH	Quarterly									
Feb-24	Potassium	(mg/L)	Quarterly									
Feb-24	Selenium	(mg/L)	Quarterly									
Feb-24	Sodium	(mg/L)	Quarterly									
Feb-24	Standing Water Level	(m)	Quarterly									
Feb-24	Vanadium	(mg/L)	Quarterly									
Feb-24	Zinc	(mg/L)	Quarterly									

**POINT 32** Groundwater quality monitoring bore marked and shown as EPA ID 32 on The Plans ("VX837351-1 AND "VX837351-2" 03/06/2020 EPA REFERENCE DOC20/476695 AND DOC20/476695-1).

Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Samples Collected & Analysed	Date Sampled	Lowest Sample Value	Mean of Samples	Highest Sample Value	99 Percentile Concentration Limit	100 Percentile Concentration Limit	Exceedance (yes/no)	Comments
Feb-24	Aluminium	(mg/L)	Quarterly									
Feb-24	Ammonia	(mg/L)	Quarterly									
Feb-24	Arsenic (III)	(mg/L)	Quarterly									
Feb-24	Arsenic (V)	(mg/L)	Quarterly									
Feb-24	Cadmium	(mg/L)	Quarterly									
Feb-24	Chromium (trivalent)	(mg/L)	Quarterly									
Feb-24	Chromium (VI) Compounds	(mg/L)	Quarterly									
Feb-24	Copper	(mg/L)	Quarterly									
Feb-24	Electrical Conductivity	(us/cm)	Quarterly									
Feb-24	Iron	(mg/L)	Quarterly									
Feb-24	Lead	(mg/L)	Quarterly									
Feb-24	Magnesium	(mg/L)	Quarterly									
Feb-24	Manganese	(mg/L)	Quarterly									
Feb-24	Nickel	(mg/L)	Quarterly									
Feb-24	pH	pH	Quarterly									
Feb-24	Potassium	(mg/L)	Quarterly									
Feb-24	Selenium	(mg/L)	Quarterly									
Feb-24	Sodium	(mg/L)	Quarterly									
Feb-24	Standing Water Level	(m)	Quarterly									
Feb-24	Vanadium	(mg/L)	Quarterly									
Feb-24	Zinc	(mg/L)	Quarterly									

Next sample scheduled for April 2024

**POINT 33** Groundwater quality monitoring bore marked and shown as EPA ID 33 on The Plans ("VX837351-1 AND "VX837351-2" 03/06/2020 EPA REFERENCE DOC20/476695 AND DOC20/476695-1).

Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Samples Collected & Analysed	Date Sampled	Lowest Sample Value	Mean of Samples	Highest Sample Value	99 Percentile Concentration Limit	100 Percentile Concentration Limit	Exceedance (yes/no)	Comments
Feb-24	Aluminium	(mg/L)	Quarterly									
Feb-24	Ammonia	(mg/L)	Quarterly									
Feb-24	Arsenic (III)	(mg/L)	Quarterly									
Feb-24	Arsenic (V)	(mg/L)	Quarterly									
Feb-24	Cadmium	(mg/L)	Quarterly									
Feb-24	Chromium (trivalent)	(mg/L)	Quarterly									
Feb-24	Chromium (VI) Compounds	(mg/L)	Quarterly									
Feb-24	Copper	(mg/L)	Quarterly									
Feb-24	Electrical Conductivity	(us/cm)	Quarterly									
Feb-24	Iron	(mg/L)	Quarterly									
Feb-24	Lead	(mg/L)	Quarterly									
Feb-24	Magnesium	(mg/L)	Quarterly									
Feb-24	Manganese	(mg/L)	Quarterly									
Feb-24	Nickel	(mg/L)	Quarterly									
Feb-24	pH	pH	Quarterly									
Feb-24	Potassium	(mg/L)	Quarterly									
Feb-24	Selenium	(mg/L)	Quarterly									
Feb-24	Sodium	(mg/L)	Quarterly									
Feb-24	Standing Water Level	(m)	Quarterly									
Feb-24	Vanadium	(mg/L)	Quarterly									
Feb-24	Zinc	(mg/L)	Quarterly									

Next sample scheduled for April 2024

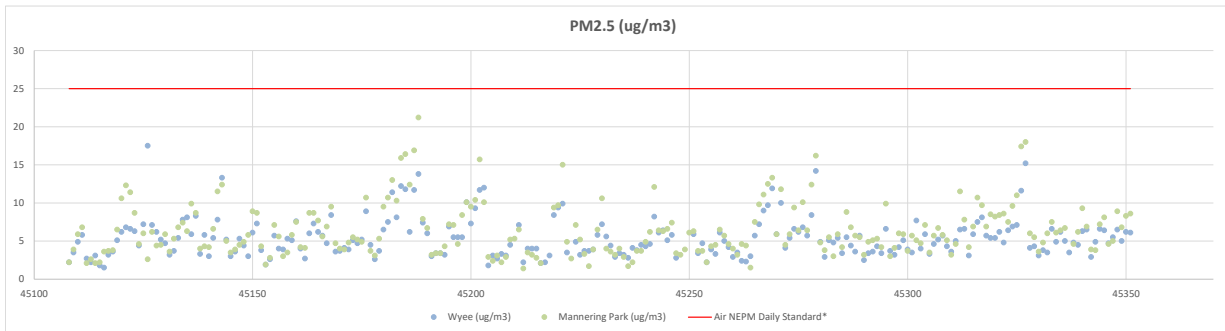
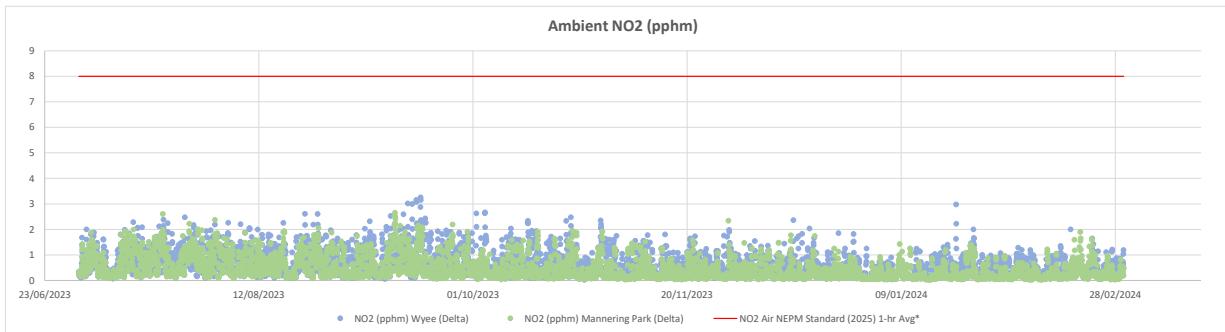
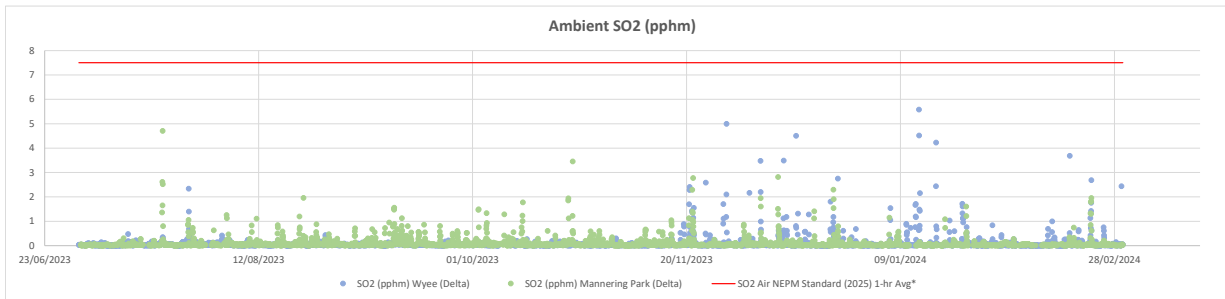
POINT 34 Groundwater quality monitoring bore marked and shown as EPA ID 33 on The Plans ("VX837351-1 AND "VX837351-2" 03/06/2020 EPA REFERENCE DOC20/476695 AND DOC20/476695-1).

Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Samples Collected & Analysed	Date Sampled	Lowest Sample Value	Mean of Samples	Highest Sample Value	99 Percentile Concentration Limit	100 Percentile Concentration Limit	Exceedance (yes/no)	Comments
Feb-24	Aluminium	(mg/L)	Quarterly									
Feb-24	Ammonia	(mg/L)	Quarterly									
Feb-24	Arsenic (III)	(mg/L)	Quarterly									
Feb-24	Arsenic (V)	(mg/L)	Quarterly									
Feb-24	Cadmium	(mg/L)	Quarterly									
Feb-24	Chromium (trivalent)	(mg/L)	Quarterly									
Feb-24	Chromium (VI) Compounds	(mg/L)	Quarterly									
Feb-24	Copper	(mg/L)	Quarterly									
Feb-24	Electrical Conductivity	(us/cm)	Quarterly									
Feb-24	Iron	(mg/L)	Quarterly									
Feb-24	Lead	(mg/L)	Quarterly									
Feb-24	Magnesium	(mg/L)	Quarterly									Next sample scheduled for April 2024
Feb-24	Manganese	(mg/L)	Quarterly									
Feb-24	Nickel	(mg/L)	Quarterly									
Feb-24	pH	pH	Quarterly									
Feb-24	Potassium	(mg/L)	Quarterly									
Feb-24	Selenium	(mg/L)	Quarterly									
Feb-24	Sodium	(mg/L)	Quarterly									
Feb-24	Standing Water Level	(m)	Quarterly									
Feb-24	Vanadium	(mg/L)	Quarterly									
Feb-24	Zinc	(mg/L)	Quarterly									



## Ambient Air Quality Graphs

**POINTS 16 & 35** Meteorological and ambient air quality monitoring stations at Wyee & Mannering Park marked and shown as EPA ID 16 & EPA ID 35 respectively on The Plan.



**GENERAL COMMENTS**

\*For more information about the Australian Governments National Environment Protection (Ambient Air Quality) Measure (Air NEPM) visit <<https://www.nepc.gov.au/nepms/ambient-air-quality>>