

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	November 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
Nov-24	Cadmium	(mg/m3)	Every 6 months							0.2	No	
Nov-24	Chlorine	(mg/m3)	Every 6 months							20	No	
Nov-24	Fluorine	(mg/m3)	Every 6 months							30	No	
Nov-24	Hydrogen chloride	(mg/m3)	Every 6 months							50	No	
Nov-24	Mercury	(mg/m3)	Every 6 months							0.05	No	
Nov-24	Nitrogen Oxides	(mg/m3)	Continuous	99.2%	Nov-24	327	589	733			No	Clean Air Reg Limit 800mg/m3
Nov-24	Solid Particles	(mg/m3)	Quarterly							50	No	
Nov-24	Sulfur dioxide	(mg/m3)	Continuous	99.2%	Nov-24	427	862	1004	1400	1700	No	
Nov-24	Sulfuric acid mist and sulfur trioxide (as SO3)	(mg/m3)	Every 6 months							100	No	
Nov-24	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months							0.75	No	
Nov-24	VOC's as n-propane equivalent	(mg/m3)	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
Nov-24	Cadmium	(mg/m3)	Every 6 months							0.2	No	
Nov-24	Chlorine	(mg/m3)	Every 6 months							20	No	
Nov-24	Fluorine	(mg/m3)	Every 6 months							30	No	
Nov-24	Hydrogen chloride	(mg/m3)	Every 6 months							50	No	
Nov-24	Mercury	(mg/m3)	Every 6 months							0.05	No	
Nov-24	Nitrogen Oxides	(mg/m3)	Continuous								No	Unit 6 out of service for entire month of November 2024
Nov-24	Solid Particles	(mg/m3)	Quarterly							50	No	
Nov-24	Sulfur dioxide	(mg/m3)	Continuous						1400	1700	No	
Nov-24	Sulfuric acid mist and sulfur trioxide (as SO3)	(mg/m3)	Every 6 months							100	No	
Nov-24	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months							0.75	No	
Nov-24	VOC's as n-propane equivalent	(mg/m3)	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
Nov-24	Cadmium	(mg/m3)	Every 6 months								N/A	
Nov-24	Carbon dioxide	(%)	Every 6 months								N/A	
Nov-24	Chlorine	(mg/m3)	Every 6 months								N/A	
Nov-24	Fluorine	(mg/m3)	Every 6 months								N/A	
Nov-24	Hydrogen chloride	(mg/m3)	Every 6 months								N/A	
Nov-24	Mercury	(mg/m3)	Every 6 months								N/A	
Nov-24	Solid Particles	(mg/m3)	Quarterly								N/A	
Nov-24	Sulfuric acid mist and sulfur trioxide (as SO3)	(mg/m3)	Every 6 months								N/A	
Nov-24	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months								N/A	
Nov-24	VOC's as n-propane equivalent	(mg/m3)	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
Nov-24	Cadmium	(mg/m3)	Every 6 months								N/A	
Nov-24	Mercury	(mg/m3)	Every 6 months								N/A	
Nov-24	Solid Particles	(mg/m3)	Quarterly								N/A	
Nov-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
Nov-24	Cadmium	(mg/m3)	Every 6 months								N/A	
Nov-24	Carbon dioxide	(%)	Every 6 months								N/A	
Nov-24	Chlorine	(mg/m3)	Every 6 months								N/A	
Nov-24	Fluorine	(mg/m3)	Every 6 months								N/A	
Nov-24	Hydrogen chloride	(mg/m3)	Every 6 months								N/A	
Nov-24	Mercury	(mg/m3)	Every 6 months								N/A	
Nov-24	Solid Particles	(mg/m3)	Quarterly								N/A	
Nov-24	Sulfuric acid mist and sulfur trioxide (as SO3)	(mg/m3)	Every 6 months								N/A	
Nov-24	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months								N/A	
Nov-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
Nov-24	Cadmium	(mg/m3)	Every 6 months								N/A	
Nov-24	Mercury	(mg/m3)	Every 6 months								N/A	
Nov-24	Solid Particles	(mg/m3)	Quarterly								N/A	
Nov-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
Nov-24	Cadmium	(mg/m3)	Every 6 months								N/A	
Nov-24	Carbon dioxide	(%)	Every 6 months								N/A	
Nov-24	Chlorine	(mg/m3)	Every 6 months								N/A	
Nov-24	Fluorine	(mg/m3)	Every 6 months								N/A	
Nov-24	Hydrogen chloride	(mg/m3)	Every 6 months								N/A	
Nov-24	Mercury	(mg/m3)	Every 6 months								N/A	
Nov-24	Solid Particles	(mg/m3)	Quarterly								N/A	
Nov-24	Sulfuric acid mist and sulfur trioxide (as SO3)	(mg/m3)	Every 6 months								N/A	
Nov-24	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months								N/A	
Nov-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
Nov-24	Cadmium	(mg/m3)	Every 6 months								N/A	
Nov-24	Mercury	(mg/m3)	Every 6 months								N/A	
Nov-24	Solid Particles	(mg/m3)	Quarterly								N/A	
Nov-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
Nov-24	Cadmium	(mg/m3)	Every 6 months								N/A	
Nov-24	Carbon dioxide	(%)	Every 6 months								N/A	
Nov-24	Chlorine	(mg/m3)	Every 6 months								N/A	
Nov-24	Fluorine	(mg/m3)	Every 6 months								N/A	
Nov-24	Hydrogen chloride	(mg/m3)	Every 6 months								N/A	
Nov-24	Mercury	(mg/m3)	Every 6 months								N/A	
Nov-24	Solid Particles	(mg/m3)	Quarterly								N/A	
Nov-24	Sulfuric acid mist and sulfur trioxide (as SO3)	(mg/m3)	Every 6 months								N/A	
Nov-24	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months								N/A	
Nov-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
Nov-24	Cadmium	(mg/m3)	Every 6 months								N/A	
Nov-24	Mercury	(mg/m3)	Every 6 months								N/A	
Nov-24	Solid Particles	(mg/m3)	Quarterly								N/A	
Nov-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
Nov-24	Nitrogen Oxides	(mg/m3)	Continuous	99.2%	Nov-24	228	603	826			N/A	
Nov-24	Sulfur dioxide	(mg/m3)	Continuous	99.2%	Nov-24	321	771	949			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
Nov-24	Nitrogen Oxides	(mg/m3)	Continuous	99.2%	Nov-24	365	575	706			N/A	
Nov-24	Sulfur dioxide	(mg/m3)	Continuous	99.2%	Nov-24	472	953	1170			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
Nov-24	Nitrogen Oxides	(mg/m3)	Continuous								N/A	Unit 6 out of service for entire month of November 2024
Nov-24	Sulfur dioxide	(mg/m3)	Continuous								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
Nov-24	Nitrogen Oxides	(mg/m3)	Continuous								N/A	Unit 6 out of service for entire month of November 2024
Nov-24	Sulfur dioxide	(mg/m3)	Continuous								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
Nov-24	Chlorine (free residual)	(mg/L)	Monthly during discharge	1	6/11/2024	0	0	0		0.2	No	
Nov-24	Copper	(mg/L)	Monthly during discharge	1	6/11/2024	0.004	0.004	0.004		0.005	No	
Nov-24	Iron	(mg/L)	Monthly during discharge	1	6/11/2024	0.05	0.05	0.05		0.3	No	
Nov-24	Oil and Grease	Visible	Continuous during discharge	100%	Nov-24	NIL	NIL	NIL				
Nov-24	Selenium	(mg/L)	Monthly during discharge	1	6/11/2024	0.002	0.002	0.002		0.005	No	
Nov-24	Temperature	(°C)	Continuous during discharge	100%	Nov-24	19.8	28.9	31.6	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
Nov-24	Aluminium	(mg/L)	Monthly during discharge	1	6/11/2024	0.02	0.02	0.02				
Nov-24	Ammonia	(mg/L)	Monthly during discharge	1	6/11/2024	0.030	0.030	0.030				
Nov-24	Arsenic (III)	(mg/L)	Monthly during discharge	1	6/11/2024	<0.01	<0.01	<0.01				
Nov-24	Arsenic (V)	(mg/L)	Monthly during discharge	1	6/11/2024	0.01	0.01	0.01				
Nov-24	Cadmium	(mg/L)	Monthly during discharge	1	6/11/2024	<0.0001	<0.0001	<0.0001				
Nov-24	Chromium (trivalent)	(mg/L)	Monthly during discharge	1	6/11/2024	<0.005	<0.005	<0.005				
Nov-24	Chromium (VI) Compounds	(mg/L)	Monthly during discharge	1	6/11/2024	0.02	0.02	0.02				
Nov-24	Copper	(mg/L)	Monthly during discharge	1	6/11/2024	0.001	0.001	0.001				
Nov-24	Iron	(mg/L)	Monthly during discharge	1	6/11/2024	0.03	0.03	0.03				
Nov-24	Lead	(mg/L)	Monthly during discharge	1	6/11/2024	<0.001	<0.001	<0.001				
Nov-24	Manganese	(mg/L)	Monthly during discharge	1	6/11/2024	0.006	0.006	0.006				
Nov-24	Nickel	(mg/L)	Monthly during discharge	1	6/11/2024	0.001	0.001	0.001				
Nov-24	Nitrate + nitrite (oxidised nitrogen)	(mg/L)	Monthly during discharge	1	6/11/2024	0.049	0.049	0.049				
Nov-24	Nitrogen	(mg/L)	Monthly during discharge	1	6/11/2024	0.3	0.3	0.3				
Nov-24	pH	pH	Monthly during discharge	1	6/11/2024	9.00	9.00	9.00		6.5 - 9.5	No	
Nov-24	Phosphorus	(mg/L)	Monthly during discharge	1	6/11/2024	0.1	0.1	0.1				
Nov-24	Reactive Phosphorus	(mg/L)	Monthly during discharge	1	6/11/2024	0.08	0.08	0.08				
Nov-24	Selenium	(mg/L)	Monthly during discharge	1	6/11/2024	0.029	0.029	0.029				
Nov-24	Total Kjeldahl Nitrogen	(mg/L)	Monthly during discharge	1	6/11/2024	0.3	0.3	0.3				
Nov-24	Total Suspended Solids	(mg/L)	Monthly during discharge	1	6/11/2024	<5	<5	<5		50	No	
Nov-24	Vanadium	(mg/L)	Monthly during discharge	1	6/11/2024	0.07	0.07	0.07				
Nov-24	Zinc	(mg/L)	Monthly during discharge	1	6/11/2024	0.006	0.006	0.006				

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
Nov-24	Aluminium	(mg/L)	Monthly during discharge	1	6/11/2024	0.06	0.06	0.06	Yes			
Nov-24	Ammonia	(mg/L)	Monthly during discharge	1	6/11/2024	1.40	1.40	1.40	Yes			
Nov-24	Arsenic (III)	(mg/L)	Monthly during discharge	1	6/11/2024	<0.001	<0.001	<0.001	Yes			
Nov-24	Arsenic (V)	(mg/L)	Monthly during discharge	1	6/11/2024	0.002	0.002	0.002	Yes			
Nov-24	Cadmium	(mg/L)	Monthly during discharge	1	6/11/2024	<0.0001	<0.0001	<0.0001	Yes			
Nov-24	Chromium (trivalent)	(mg/L)	Monthly during discharge	1	6/11/2024	<0.005	<0.005	<0.005	Yes			
Nov-24	Chromium (VI) Compounds	(mg/L)	Monthly during discharge	1	6/11/2024	<0.005	<0.005	<0.005	Yes			
Nov-24	Copper	(mg/L)	Monthly during discharge	1	6/11/2024	0.001	0.001	0.001	Yes			
Nov-24	Iron	(mg/L)	Monthly during discharge	1	6/11/2024	0.62	0.62	0.62	Yes			
Nov-24	Lead	(mg/L)	Monthly during discharge	1	6/11/2024	<0.001	<0.001	<0.001	Yes			
Nov-24	Manganese	(mg/L)	Monthly during discharge	1	6/11/2024	0.140	0.140	0.140	Yes			
Nov-24	Nickel	(mg/L)	Monthly during discharge	1	6/11/2024	<0.001	<0.001	<0.001	Yes			
Nov-24	Nitrate + nitrite (oxidised nitrogen)	(mg/L)	Monthly during discharge	1	6/11/2024	0.16	0.16	0.16	Yes			
Nov-24	Nitrogen	(mg/L)	Monthly during discharge	1	6/11/2024	1.20	1.20	1.20	Yes			
Nov-24	pH	pH	Monthly during discharge	1	6/11/2024	8.12	8.12	8.12	Yes	6.5 - 9.5	No	
Nov-24	Phosphorus	(mg/L)	Monthly during discharge	1	6/11/2024	<0.05	<0.05	<0.05	Yes			
Nov-24	Reactive Phosphorus	(mg/L)	Monthly during discharge	1	6/11/2024	<0.005	<0.005	<0.005	Yes			
Nov-24	Selenium	(mg/L)	Monthly during discharge	1	6/11/2024	0.001	0.001	0.001	Yes			
Nov-24	Total Kjeldahl Nitrogen	(mg/L)	Monthly during discharge	1	6/11/2024	1.00	1.00	1.00	Yes			
Nov-24	Total Suspended Solids	(mg/L)	Monthly during discharge	1	6/11/2024	<5	<5	<5	Yes	50	No	
Nov-24	Vanadium	(mg/L)	Monthly during discharge	1	6/11/2024	0.01	0.01	0.01	Yes			
Nov-24	Zinc	(mg/L)	Monthly during discharge	1	6/11/2024	0.009	0.009	0.009	Yes			

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
Nov-24	Aluminium	(mg/L)	Daily for any discharge >2 hrs						No			
Nov-24	Ammonia	(mg/L)	Daily for any discharge >2 hrs						No			
Nov-24	Arsenic (III)	(mg/L)	Daily for any discharge >2 hrs						No			
Nov-24	Arsenic (V)	(mg/L)	Daily for any discharge >2 hrs						No			
Nov-24	Cadmium	(mg/L)	Daily for any discharge >2 hrs						No			
Nov-24	Chromium (trivalent)	(mg/L)	Daily for any discharge >2 hrs						No			
Nov-24	Chromium (VI) Compounds	(mg/L)	Daily for any discharge >2 hrs						No			
Nov-24	Copper	(mg/L)	Daily for any discharge >2 hrs						No			
Nov-24	Iron	(mg/L)	Daily for any discharge >2 hrs						No			
Nov-24	Lead	(mg/L)	Daily for any discharge >2 hrs						No			
Nov-24	Manganese	(mg/L)	Daily for any discharge >2 hrs						No			
Nov-24	Nickel	(mg/L)	Daily for any discharge >2 hrs						No			
Nov-24	Nitrate + nitrite (oxidised nitrogen)	(mg/L)	Daily for any discharge >2 hrs						No			No discharge from EPA Point 25 during November 2024
Nov-24	Nitrogen	(mg/L)	Daily for any discharge >2 hrs						No			
Nov-24	pH	pH	Daily for any discharge >2 hrs						No	6.5 - 9.5		
Nov-24	Phosphorus	(mg/L)	Daily for any discharge >2 hrs						No			
Nov-24	Reactive Phosphorus	(mg/L)	Daily for any discharge >2 hrs						No			
Nov-24	Selenium	(mg/L)	Daily for any discharge >2 hrs						No			
Nov-24	Total Kjeldahl Nitrogen	(mg/L)	Daily for any discharge >2 hrs						No			
Nov-24	Total Suspended Solids	(mg/L)	Daily for any discharge >2 hrs						No	50		
Nov-24	Vanadium	(mg/L)	Daily for any discharge >2 hrs						No			
Nov-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
Nov-24	Aluminium	(mg/L)	Quarterly									
Nov-24	Ammonia	(mg/L)	Quarterly									
Nov-24	Arsenic (III)	(mg/L)	Quarterly									
Nov-24	Arsenic (V)	(mg/L)	Quarterly									
Nov-24	Cadmium	(mg/L)	Quarterly									
Nov-24	Chromium (trivalent)	(mg/L)	Quarterly									
Nov-24	Chromium (VI) Compounds	(mg/L)	Quarterly									
Nov-24	Copper	(mg/L)	Quarterly									
Nov-24	Electrical Conductivity	(us/cm)	Quarterly									
Nov-24	Iron	(mg/L)	Quarterly									
Nov-24	Lead	(mg/L)	Quarterly									
Nov-24	Magnesium	(mg/L)	Quarterly									
Nov-24	Manganese	(mg/L)	Quarterly									
Nov-24	Nickel	(mg/L)	Quarterly									
Nov-24	pH	pH	Quarterly									
Nov-24	Potassium	(mg/L)	Quarterly									
Nov-24	Selenium	(mg/L)	Quarterly									
Nov-24	Sodium	(mg/L)	Quarterly									
Nov-24	Standing Water Level	(m)	Quarterly									
Nov-24	Vanadium	(mg/L)	Quarterly									
Nov-24	Zinc	(mg/L)	Quarterly									

Next sample scheduled for January 2025

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
Nov-24	Aluminium	(mg/L)	Quarterly									
Nov-24	Ammonia	(mg/L)	Quarterly									
Nov-24	Arsenic (III)	(mg/L)	Quarterly									
Nov-24	Arsenic (V)	(mg/L)	Quarterly									
Nov-24	Cadmium	(mg/L)	Quarterly									
Nov-24	Chromium (trivalent)	(mg/L)	Quarterly									
Nov-24	Chromium (VI) Compounds	(mg/L)	Quarterly									
Nov-24	Copper	(mg/L)	Quarterly									
Nov-24	Electrical Conductivity	(us/cm)	Quarterly									
Nov-24	Iron	(mg/L)	Quarterly									
Nov-24	Lead	(mg/L)	Quarterly									
Nov-24	Magnesium	(mg/L)	Quarterly									
Nov-24	Manganese	(mg/L)	Quarterly									
Nov-24	Nickel	(mg/L)	Quarterly									
Nov-24	pH	pH	Quarterly									
Nov-24	Potassium	(mg/L)	Quarterly									
Nov-24	Selenium	(mg/L)	Quarterly									
Nov-24	Sodium	(mg/L)	Quarterly									
Nov-24	Standing Water Level	(m)	Quarterly									
Nov-24	Vanadium	(mg/L)	Quarterly									
Nov-24	Zinc	(mg/L)	Quarterly									

Next sample scheduled for January 2025

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
Nov-24	Aluminium	(mg/L)	Quarterly									
Nov-24	Ammonia	(mg/L)	Quarterly									
Nov-24	Arsenic (III)	(mg/L)	Quarterly									
Nov-24	Arsenic (V)	(mg/L)	Quarterly									
Nov-24	Cadmium	(mg/L)	Quarterly									
Nov-24	Chromium (trivalent)	(mg/L)	Quarterly									
Nov-24	Chromium (VI) Compounds	(mg/L)	Quarterly									
Nov-24	Copper	(mg/L)	Quarterly									
Nov-24	Electrical Conductivity	(us/cm)	Quarterly									
Nov-24	Iron	(mg/L)	Quarterly									
Nov-24	Lead	(mg/L)	Quarterly									
Nov-24	Magnesium	(mg/L)	Quarterly									
Nov-24	Manganese	(mg/L)	Quarterly									
Nov-24	Nickel	(mg/L)	Quarterly									
Nov-24	pH	pH	Quarterly									
Nov-24	Potassium	(mg/L)	Quarterly									
Nov-24	Selenium	(mg/L)	Quarterly									
Nov-24	Sodium	(mg/L)	Quarterly									
Nov-24	Standing Water Level	(m)	Quarterly									
Nov-24	Vanadium	(mg/L)	Quarterly									
Nov-24	Zinc	(mg/L)	Quarterly									

Next sample scheduled for January 2025

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
Nov-24	Aluminium	(mg/L)	Quarterly									
Nov-24	Ammonia	(mg/L)	Quarterly									
Nov-24	Arsenic (III)	(mg/L)	Quarterly									
Nov-24	Arsenic (V)	(mg/L)	Quarterly									
Nov-24	Cadmium	(mg/L)	Quarterly									
Nov-24	Chromium (trivalent)	(mg/L)	Quarterly									
Nov-24	Chromium (VI) Compounds	(mg/L)	Quarterly									
Nov-24	Copper	(mg/L)	Quarterly									
Nov-24	Electrical Conductivity	(us/cm)	Quarterly									
Nov-24	Iron	(mg/L)	Quarterly									
Nov-24	Lead	(mg/L)	Quarterly									
Nov-24	Magnesium	(mg/L)	Quarterly									
Nov-24	Manganese	(mg/L)	Quarterly									
Nov-24	Nickel	(mg/L)	Quarterly									
Nov-24	pH	pH	Quarterly									
Nov-24	Potassium	(mg/L)	Quarterly									
Nov-24	Selenium	(mg/L)	Quarterly									
Nov-24	Sodium	(mg/L)	Quarterly									
Nov-24	Standing Water Level	(m)	Quarterly									
Nov-24	Vanadium	(mg/L)	Quarterly									
Nov-24	Zinc	(mg/L)	Quarterly									

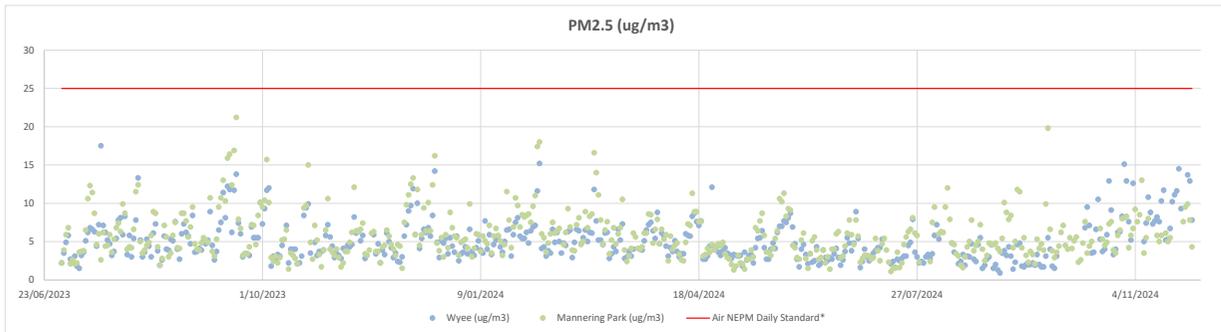
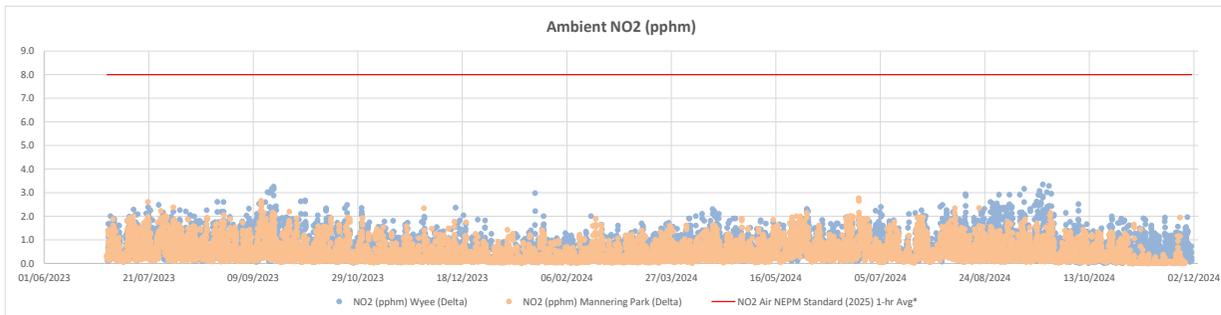
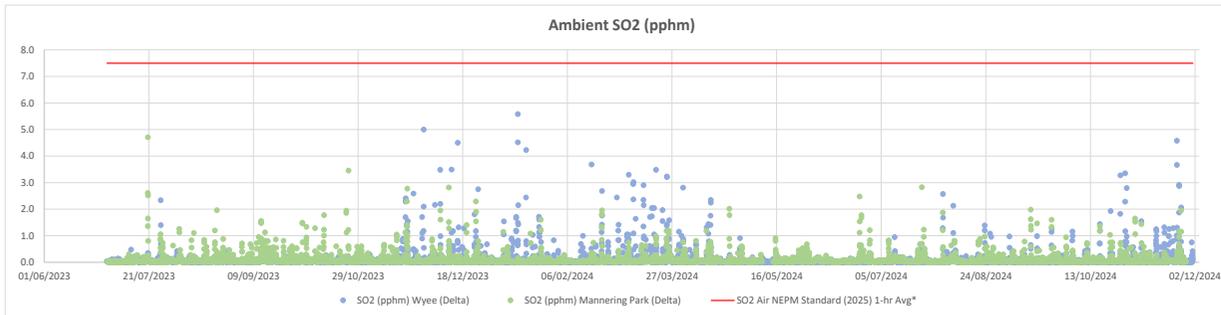
Next sample scheduled for January 2025

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
Nov-24	Aluminium	(mg/L)	Quarterly									
Nov-24	Ammonia	(mg/L)	Quarterly									
Nov-24	Arsenic (III)	(mg/L)	Quarterly									
Nov-24	Arsenic (V)	(mg/L)	Quarterly									
Nov-24	Cadmium	(mg/L)	Quarterly									
Nov-24	Chromium (trivalent)	(mg/L)	Quarterly									
Nov-24	Chromium (VI) Compounds	(mg/L)	Quarterly									
Nov-24	Copper	(mg/L)	Quarterly									
Nov-24	Electrical Conductivity	(us/cm)	Quarterly									
Nov-24	Iron	(mg/L)	Quarterly									Next sample scheduled for January 2025
Nov-24	Lead	(mg/L)	Quarterly									
Nov-24	Magnesium	(mg/L)	Quarterly									
Nov-24	Manganese	(mg/L)	Quarterly									
Nov-24	Nickel	(mg/L)	Quarterly									
Nov-24	pH	pH	Quarterly									
Nov-24	Potassium	(mg/L)	Quarterly									
Nov-24	Selenium	(mg/L)	Quarterly									
Nov-24	Sodium	(mg/L)	Quarterly									
Nov-24	Standing Water Level	(m)	Quarterly									
Nov-24	Vanadium	(mg/L)	Quarterly									
Nov-24	Zinc	(mg/L)	Quarterly									

Ambient Air Quality Graphs

POINTS 16 & 35 Meteorological and ambient air quality monitoring stations at Wyee & Manning 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>>