

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 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
Apr-24	Cadmium	(mg/m ³)	Every 6 months							0.2	No	
Apr-24	Chlorine	(mg/m ³)	Every 6 months							20	No	
Apr-24	Fluorine	(mg/m ³)	Every 6 months							30	No	
Apr-24	Hydrogen chloride	(mg/m ³)	Every 6 months							50	No	
Apr-24	Mercury	(mg/m ³)	Every 6 months							0.05	No	
Apr-24	Nitrogen Oxides	(mg/m ³)	Continuous	91.4%	Apr-24	395	638	735	850	980	No	
Apr-24	Solid Particles	(mg/m ³)	Quarterly							50	No	
Apr-24	Sulfur dioxide	(mg/m ³)	Continuous	91.4%	Apr-24	390	958	1490	1400	1700	No	
Apr-24	Sulfuric acid mist and sulfur trioxide (as SO ₃)	(mg/m ³)	Every 6 months							100	No	
Apr-24	Type 1 and Type 2 substances in aggregate	(mg/m ³)	Every 6 months							0.75	No	
Apr-24	VOC's as n-propane equivalent	(mg/m ³)	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
Apr-24	Cadmium	(mg/m ³)	Every 6 months							0.2	No	
Apr-24	Chlorine	(mg/m ³)	Every 6 months							20	No	
Apr-24	Fluorine	(mg/m ³)	Every 6 months							30	No	
Apr-24	Hydrogen chloride	(mg/m ³)	Every 6 months							50	No	
Apr-24	Mercury	(mg/m ³)	Every 6 months							0.05	No	
Apr-24	Nitrogen Oxides	(mg/m ³)	Continuous	88.4%	Apr-24	350	625	750	850	980	No	
Apr-24	Solid Particles	(mg/m ³)	Quarterly							50	No	
Apr-24	Sulfur dioxide	(mg/m ³)	Continuous	88.4%	Apr-24	491	1023	1618	1400	1700	No	
Apr-24	Sulfuric acid mist and sulfur trioxide (as SO ₃)	(mg/m ³)	Every 6 months							100	No	
Apr-24	Type 1 and Type 2 substances in aggregate	(mg/m ³)	Every 6 months							0.75	No	
Apr-24	VOC's as n-propane equivalent	(mg/m ³)	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
Apr-24	Cadmium	(mg/m ³)	Every 6 months								N/A	
Apr-24	Carbon dioxide	(%)	Every 6 months								N/A	
Apr-24	Chlorine	(mg/m ³)	Every 6 months								N/A	
Apr-24	Fluorine	(mg/m ³)	Every 6 months								N/A	
Apr-24	Hydrogen chloride	(mg/m ³)	Every 6 months								N/A	
Apr-24	Mercury	(mg/m ³)	Every 6 months								N/A	
Apr-24	Solid Particles	(mg/m ³)	Quarterly								N/A	
Apr-24	Sulfuric acid mist and sulfur trioxide (as SO ₃)	(mg/m ³)	Every 6 months								N/A	
Apr-24	Type 1 and Type 2 substances in aggregate	(mg/m ³)	Every 6 months								N/A	
Apr-24	VOC's as n-propane equivalent	(mg/m ³)	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
Apr-24	Cadmium	(mg/m3)	Every 6 months								N/A	
Apr-24	Mercury	(mg/m3)	Every 6 months								N/A	
Apr-24	Solid Particles	(mg/m3)	Quarterly								N/A	
Apr-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
Apr-24	Cadmium	(mg/m3)	Every 6 months								N/A	
Apr-24	Carbon dioxide	(%)	Every 6 months								N/A	
Apr-24	Chlorine	(mg/m3)	Every 6 months								N/A	
Apr-24	Fluorine	(mg/m3)	Every 6 months								N/A	
Apr-24	Hydrogen chloride	(mg/m3)	Every 6 months								N/A	
Apr-24	Mercury	(mg/m3)	Every 6 months								N/A	
Apr-24	Solid Particles	(mg/m3)	Quarterly								N/A	
Apr-24	Sulfuric acid mist and sulfur trioxide (as SO3)	(mg/m3)	Every 6 months								N/A	
Apr-24	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months								N/A	
Apr-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
Apr-24	Cadmium	(mg/m3)	Every 6 months								N/A	
Apr-24	Mercury	(mg/m3)	Every 6 months								N/A	
Apr-24	Solid Particles	(mg/m3)	Quarterly								N/A	
Apr-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
Apr-24	Cadmium	(mg/m3)	Every 6 months								N/A	
Apr-24	Carbon dioxide	(%)	Every 6 months								N/A	
Apr-24	Chlorine	(mg/m3)	Every 6 months								N/A	
Apr-24	Fluorine	(mg/m3)	Every 6 months								N/A	
Apr-24	Hydrogen chloride	(mg/m3)	Every 6 months								N/A	
Apr-24	Mercury	(mg/m3)	Every 6 months								N/A	
Apr-24	Solid Particles	(mg/m3)	Quarterly								N/A	
Apr-24	Sulfuric acid mist and sulfur trioxide (as SO3)	(mg/m3)	Every 6 months								N/A	
Apr-24	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months								N/A	
Apr-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
Apr-24	Cadmium	(mg/m3)	Every 6 months								N/A	
Apr-24	Mercury	(mg/m3)	Every 6 months								N/A	
Apr-24	Solid Particles	(mg/m3)	Quarterly								N/A	
Apr-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
Apr-24	Cadmium	(mg/m3)	Every 6 months								N/A	
Apr-24	Carbon dioxide	(%)	Every 6 months								N/A	
Apr-24	Chlorine	(mg/m3)	Every 6 months								N/A	
Apr-24	Fluorine	(mg/m3)	Every 6 months								N/A	
Apr-24	Hydrogen chloride	(mg/m3)	Every 6 months								N/A	
Apr-24	Mercury	(mg/m3)	Every 6 months								N/A	
Apr-24	Solid Particles	(mg/m3)	Quarterly								N/A	
Apr-24	Sulfuric acid mist and sulfur trioxide (as SO3)	(mg/m3)	Every 6 months								N/A	
Apr-24	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months								N/A	
Apr-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
Apr-24	Cadmium	(mg/m3)	Every 6 months								N/A	
Apr-24	Mercury	(mg/m3)	Every 6 months								N/A	
Apr-24	Solid Particles	(mg/m3)	Quarterly								N/A	
Apr-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
Apr-24	Nitrogen Oxides	(mg/m3)	Continuous	91.4%	Apr-24	368	644	765			N/A	
Apr-24	Sulfur dioxide	(mg/m3)	Continuous	91.4%	Apr-24	306	897	1426			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
Apr-24	Nitrogen Oxides	(mg/m3)	Continuous	91.4%	Apr-24	407	631	770			N/A	
Apr-24	Sulfur dioxide	(mg/m3)	Continuous	91.4%	Apr-24	475	1019	1553			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
Apr-24	Nitrogen Oxides	(mg/m3)	Continuous	88.4%	Apr-24	369	650	837			N/A	
Apr-24	Sulfur dioxide	(mg/m3)	Continuous	88.4%	Apr-24	518	1044	1671			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
Apr-24	Nitrogen Oxides	(mg/m3)	Continuous	88.4%	Apr-24	259	600	762			N/A	
Apr-24	Sulfur dioxide	(mg/m3)	Continuous	88.4%	Apr-24	450	1002	1565			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
Apr-24	Chlorine (free residual)	(mg/L)	Monthly during discharge	1	2/04/2024	0	0	0		0.2	No	
Apr-24	Copper	(mg/L)	Monthly during discharge	1	2/04/2024	<0.005	<0.005	<0.005		0.005	No	
Apr-24	Iron	(mg/L)	Monthly during discharge	1	2/04/2024	0.23	0.23	0.23		0.3	No	
Apr-24	Oil and Grease	Visible	Continuous during discharge	40%	Apr-24	NIL	NIL	NIL				
Apr-24	Selenium	(mg/L)	Monthly during discharge	1	2/04/2024	<0.005	<0.005	<0.005		0.005	No	
Apr-24	Temperature	(°C)	Continuous during discharge	100%	Apr-24	24.3	29.5	32.6	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
Apr-24	Aluminium	(mg/L)	Monthly during discharge	1	2/04/2024	<0.05	<0.05	<0.05				
Apr-24	Ammonia	(mg/L)	Monthly during discharge	1	2/04/2024	0.260	0.260	0.260				
Apr-24	Arsenic (III)	(mg/L)	Monthly during discharge	1	2/04/2024	<0.001	<0.001	<0.001				
Apr-24	Arsenic (V)	(mg/L)	Monthly during discharge	1	2/04/2024	0.030	0.030	0.030				
Apr-24	Cadmium	(mg/L)	Monthly during discharge	1	2/04/2024	<0.0005	<0.0005	<0.0005				
Apr-24	Chromium (trivalent)	(mg/L)	Monthly during discharge	1	2/04/2024	<0.005	<0.005	<0.005				
Apr-24	Chromium (VI) Compounds	(mg/L)	Monthly during discharge	1	2/04/2024	0.030	0.030	0.030				
Apr-24	Copper	(mg/L)	Monthly during discharge	1	2/04/2024	0.059	0.059	0.059				
Apr-24	Iron	(mg/L)	Monthly during discharge	1	2/04/2024	<0.05	<0.05	<0.05				
Apr-24	Lead	(mg/L)	Monthly during discharge	1	2/04/2024	0.0150	0.0150	0.0150				
Apr-24	Manganese	(mg/L)	Monthly during discharge	1	2/04/2024	<0.025	<0.025	<0.025				
Apr-24	Nickel	(mg/L)	Monthly during discharge	1	2/04/2024	0.010	0.010	0.010				
Apr-24	Nitrate + nitrite (oxidised nitrogen)	(mg/L)	Monthly during discharge	1	2/04/2024	<0.005	<0.005	<0.005				
Apr-24	Nitrogen	(mg/L)	Monthly during discharge	1	2/04/2024	0.30	0.30	0.30				
Apr-24	pH	pH	Monthly during discharge	1	2/04/2024	8.95	8.95	8.95		6.5 - 9.5	No	
Apr-24	Phosphorus	(mg/L)	Monthly during discharge	1	2/04/2024	0.40	0.40	0.40				
Apr-24	Reactive Phosphorus	(mg/L)	Monthly during discharge	1	2/04/2024	0.22	0.22	0.22				
Apr-24	Selenium	(mg/L)	Monthly during discharge	1	2/04/2024	0.053	0.053	0.053				
Apr-24	Total Kjeldahl Nitrogen	(mg/L)	Monthly during discharge	1	2/04/2024	0.3	0.3	0.3				
Apr-24	Total Suspended Solids	(mg/L)	Monthly during discharge	1	2/04/2024	10	10	10		50	No	
Apr-24	Vanadium	(mg/L)	Monthly during discharge	1	2/04/2024	0.22	0.22	0.22				
Apr-24	Zinc	(mg/L)	Monthly during discharge	1	2/04/2024	0.092	0.092	0.092				

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
Apr-24	Aluminium	(mg/L)	Monthly during discharge	1	2/04/2024	<0.05	<0.05	<0.05	No			
Apr-24	Ammonia	(mg/L)	Monthly during discharge	1	2/04/2024	1.00	1.00	1.00	No			
Apr-24	Arsenic (III)	(mg/L)	Monthly during discharge	1	2/04/2024	<0.001	<0.001	<0.001	No			
Apr-24	Arsenic (V)	(mg/L)	Monthly during discharge	1	2/04/2024	0.002	0.002	0.002	No			
Apr-24	Cadmium	(mg/L)	Monthly during discharge	1	2/04/2024	<0.0005	<0.0005	<0.0005	No			
Apr-24	Chromium (trivalent)	(mg/L)	Monthly during discharge	1	2/04/2024	<0.005	<0.005	<0.005	No			
Apr-24	Chromium (VI) Compounds	(mg/L)	Monthly during discharge	1	2/04/2024	<0.005	<0.005	<0.005	No			
Apr-24	Copper	(mg/L)	Monthly during discharge	1	2/04/2024	<0.005	<0.005	<0.005	No			
Apr-24	Iron	(mg/L)	Monthly during discharge	1	2/04/2024	0.10	0.10	0.10	No			
Apr-24	Lead	(mg/L)	Monthly during discharge	1	2/04/2024	<0.005	<0.005	<0.005	No			
Apr-24	Manganese	(mg/L)	Monthly during discharge	1	2/04/2024	0.067	0.067	0.067	No			
Apr-24	Nickel	(mg/L)	Monthly during discharge	1	2/04/2024	<0.005	<0.005	<0.005	No			
Apr-24	Nitrate + nitrite (oxidised nitrogen)	(mg/L)	Monthly during discharge	1	2/04/2024	0.48	0.48	0.48	No			
Apr-24	Nitrogen	(mg/L)	Monthly during discharge	1	2/04/2024	1.00	1.00	1.00	No			
Apr-24	pH	pH	Monthly during discharge	1	2/04/2024	7.76	7.76	7.76	No	6.5 - 9.5	No	
Apr-24	Phosphorus	(mg/L)	Monthly during discharge	1	2/04/2024	<0.05	<0.05	<0.05	No			
Apr-24	Reactive Phosphorus	(mg/L)	Monthly during discharge	1	2/04/2024	0.008	0.008	0.008	No			
Apr-24	Selenium	(mg/L)	Monthly during discharge	1	2/04/2024	<0.005	<0.005	<0.005	No			
Apr-24	Total Kjeldahl Nitrogen	(mg/L)	Monthly during discharge	1	2/04/2024	0.50	0.50	0.50	No			
Apr-24	Total Suspended Solids	(mg/L)	Monthly during discharge	1	2/04/2024	6	6	6	No	50	No	
Apr-24	Vanadium	(mg/L)	Monthly during discharge	1	2/04/2024	0.01	0.01	0.01	No			
Apr-24	Zinc	(mg/L)	Monthly during discharge	1	2/04/2024	0.028	0.028	0.028	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
Apr-24	Aluminium	(mg/L)	Daily for any discharge >2 hrs						No			
Apr-24	Ammonia	(mg/L)	Daily for any discharge >2 hrs						No			
Apr-24	Arsenic (III)	(mg/L)	Daily for any discharge >2 hrs						No			
Apr-24	Arsenic (V)	(mg/L)	Daily for any discharge >2 hrs						No			
Apr-24	Cadmium	(mg/L)	Daily for any discharge >2 hrs						No			
Apr-24	Chromium (trivalent)	(mg/L)	Daily for any discharge >2 hrs						No			
Apr-24	Chromium (VI) Compounds	(mg/L)	Daily for any discharge >2 hrs						No			
Apr-24	Copper	(mg/L)	Daily for any discharge >2 hrs						No			
Apr-24	Iron	(mg/L)	Daily for any discharge >2 hrs						No			
Apr-24	Lead	(mg/L)	Daily for any discharge >2 hrs						No			
Apr-24	Manganese	(mg/L)	Daily for any discharge >2 hrs						No			No discharge from EPA Point 25 during April 2024
Apr-24	Nickel	(mg/L)	Daily for any discharge >2 hrs						No			
Apr-24	Nitrate + nitrite (oxidised nitrogen)	(mg/L)	Daily for any discharge >2 hrs						No			
Apr-24	Nitrogen	(mg/L)	Daily for any discharge >2 hrs						No			
Apr-24	pH	pH	Daily for any discharge >2 hrs						No	6.5 - 9.5	No	
Apr-24	Phosphorus	(mg/L)	Daily for any discharge >2 hrs						No			
Apr-24	Reactive Phosphorus	(mg/L)	Daily for any discharge >2 hrs						No			
Apr-24	Selenium	(mg/L)	Daily for any discharge >2 hrs						No			
Apr-24	Total Kjeldahl Nitrogen	(mg/L)	Daily for any discharge >2 hrs						No			
Apr-24	Total Suspended Solids	(mg/L)	Daily for any discharge >2 hrs						No	50	No	
Apr-24	Vanadium	(mg/L)	Daily for any discharge >2 hrs						No			
Apr-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
Apr-24	Aluminium	(mg/L)	Quarterly	1	2/04/2024	0.32	0.32	0.32				
Apr-24	Ammonia	(mg/L)	Quarterly	1	2/04/2024	5.1	5.1	5.1				
Apr-24	Arsenic (III)	(mg/L)	Quarterly	1	2/04/2024	0.002	0.002	0.002				
Apr-24	Arsenic (V)	(mg/L)	Quarterly	1	2/04/2024	0.003	0.003	0.003				
Apr-24	Cadmium	(mg/L)	Quarterly	1	2/04/2024	<0.0002	<0.0002	<0.0002				
Apr-24	Chromium (trivalent)	(mg/L)	Quarterly	1	2/04/2024	<0.005	<0.005	<0.005				
Apr-24	Chromium (VI) Compounds	(mg/L)	Quarterly	1	2/04/2024	<0.005	<0.005	<0.005				
Apr-24	Copper	(mg/L)	Quarterly	1	2/04/2024	0.038	0.038	0.038				
Apr-24	Electrical Conductivity	(us/cm)	Quarterly	1	2/04/2024	32882	32882	32882				
Apr-24	Iron	(mg/L)	Quarterly	1	2/04/2024	98.0	98.0	98.0				
Apr-24	Lead	(mg/L)	Quarterly	1	2/04/2024	0.003	0.003	0.003				
Apr-24	Magnesium	(mg/L)	Quarterly	1	2/04/2024	820	820	820				
Apr-24	Manganese	(mg/L)	Quarterly	1	2/04/2024	5.5	5.5	5.5				
Apr-24	Nickel	(mg/L)	Quarterly	1	2/04/2024	0.059	0.059	0.059				
Apr-24	pH	pH	Quarterly	1	2/04/2024	5.33	5.33	5.33				
Apr-24	Potassium	(mg/L)	Quarterly	1	2/04/2024	99	99	99				
Apr-24	Selenium	(mg/L)	Quarterly	1	2/04/2024	<0.002	<0.002	<0.002				
Apr-24	Sodium	(mg/L)	Quarterly	1	2/04/2024	7000	7000	7000				
Apr-24	Standing Water Level	(m)	Quarterly	1	2/04/2024	3.94	3.94	3.94				
Apr-24	Vanadium	(mg/L)	Quarterly	1	2/04/2024	<0.002	<0.002	<0.002				
Apr-24	Zinc	(mg/L)	Quarterly	1	2/04/2024	0.031	0.031	0.031				

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
Apr-24	Aluminium	(mg/L)	Quarterly	1	2/04/2024	0.96	0.96	0.96				
Apr-24	Ammonia	(mg/L)	Quarterly	1	2/04/2024	1.40	1.40	1.40				
Apr-24	Arsenic (III)	(mg/L)	Quarterly	1	2/04/2024	<0.001	<0.001	<0.001				
Apr-24	Arsenic (V)	(mg/L)	Quarterly	1	2/04/2024	0.010	0.010	0.010				
Apr-24	Cadmium	(mg/L)	Quarterly	1	2/04/2024	0.0002	0.0002	0.0002				
Apr-24	Chromium (trivalent)	(mg/L)	Quarterly	1	2/04/2024	<0.005	<0.005	<0.005				
Apr-24	Chromium (VI) Compounds	(mg/L)	Quarterly	1	2/04/2024	<0.005	<0.005	<0.005				
Apr-24	Copper	(mg/L)	Quarterly	1	2/04/2024	0.074	0.074	0.074				
Apr-24	Electrical Conductivity	(us/cm)	Quarterly	1	2/04/2024	29970	29970	29970				
Apr-24	Iron	(mg/L)	Quarterly	1	2/04/2024	300	300	300				
Apr-24	Lead	(mg/L)	Quarterly	1	2/04/2024	0.009	0.009	0.009				
Apr-24	Magnesium	(mg/L)	Quarterly	1	2/04/2024	1000	1000	1000				
Apr-24	Manganese	(mg/L)	Quarterly	1	2/04/2024	4.8	4.8	4.8				
Apr-24	Nickel	(mg/L)	Quarterly	1	2/04/2024	0.22	0.22	0.22				
Apr-24	pH	pH	Quarterly	1	2/04/2024	5.35	5.35	5.35				
Apr-24	Potassium	(mg/L)	Quarterly	1	2/04/2024	42.0	42.0	42.0				
Apr-24	Selenium	(mg/L)	Quarterly	1	2/04/2024	<0.001	<0.001	<0.001				
Apr-24	Sodium	(mg/L)	Quarterly	1	2/04/2024	5700	5700	5700				
Apr-24	Standing Water Level	(m)	Quarterly	1	2/04/2024	2.80	2.80	2.80				
Apr-24	Vanadium	(mg/L)	Quarterly	1	2/04/2024	0.003	0.003	0.003				
Apr-24	Zinc	(mg/L)	Quarterly	1	2/04/2024	0.26	0.26	0.26				

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
Apr-24	Aluminium	(mg/L)	Quarterly	1	2/04/2024	5.70	5.70	5.70				
Apr-24	Ammonia	(mg/L)	Quarterly	1	2/04/2024	0.24	0.24	0.24				
Apr-24	Arsenic (III)	(mg/L)	Quarterly	1	2/04/2024	<0.001	<0.001	<0.001				
Apr-24	Arsenic (V)	(mg/L)	Quarterly	1	2/04/2024	<0.001	<0.001	<0.001				
Apr-24	Cadmium	(mg/L)	Quarterly	1	2/04/2024	<0.0001	<0.0001	<0.0001				
Apr-24	Chromium (trivalent)	(mg/L)	Quarterly	1	2/04/2024	<0.005	<0.005	<0.005				
Apr-24	Chromium (VI) Compounds	(mg/L)	Quarterly	1	2/04/2024	<0.005	<0.005	<0.005				
Apr-24	Copper	(mg/L)	Quarterly	1	2/04/2024	0.084	0.084	0.084				
Apr-24	Electrical Conductivity	(us/cm)	Quarterly	1	2/04/2024	7411	7411	7411				
Apr-24	Iron	(mg/L)	Quarterly	1	2/04/2024	46	46	46				
Apr-24	Lead	(mg/L)	Quarterly	1	2/04/2024	0.008	0.008	0.008				
Apr-24	Magnesium	(mg/L)	Quarterly	1	2/04/2024	90	90	90				
Apr-24	Manganese	(mg/L)	Quarterly	1	2/04/2024	1.700	1.700	1.700				
Apr-24	Nickel	(mg/L)	Quarterly	1	2/04/2024	0.110	0.110	0.110				
Apr-24	pH	pH	Quarterly	1	2/04/2024	4.29	4.29	4.29				
Apr-24	Potassium	(mg/L)	Quarterly	1	2/04/2024	18.0	18.0	18.0				
Apr-24	Selenium	(mg/L)	Quarterly	1	2/04/2024	<0.001	<0.001	<0.001				
Apr-24	Sodium	(mg/L)	Quarterly	1	2/04/2024	1700	1700	1700				
Apr-24	Standing Water Level	(m)	Quarterly	1	2/04/2024	4.00	4.00	4.00				
Apr-24	Vanadium	(mg/L)	Quarterly	1	2/04/2024	0.001	0.001	0.001				
Apr-24	Zinc	(mg/L)	Quarterly	1	2/04/2024	0.190	0.190	0.190				

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).

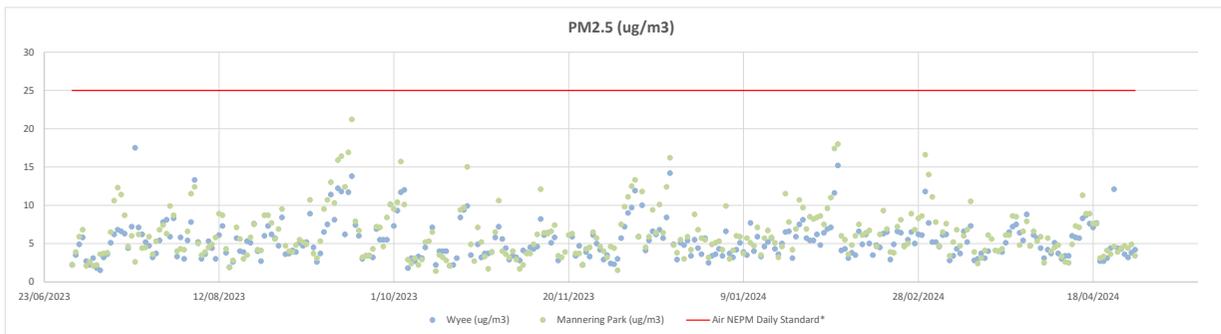
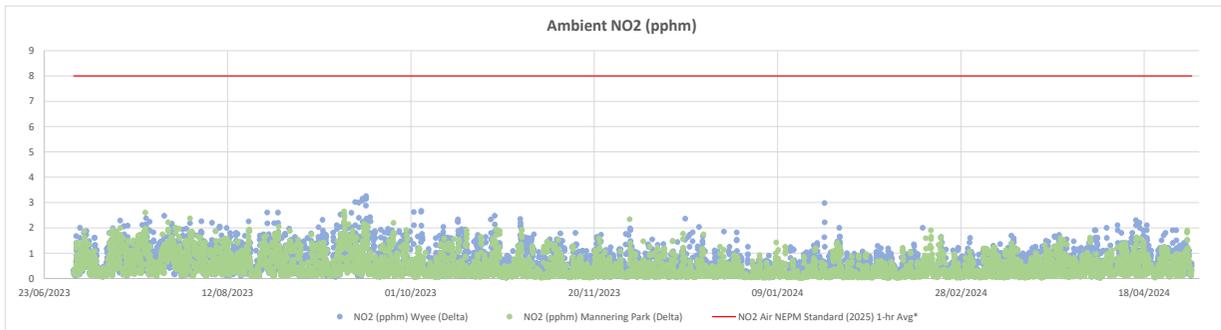
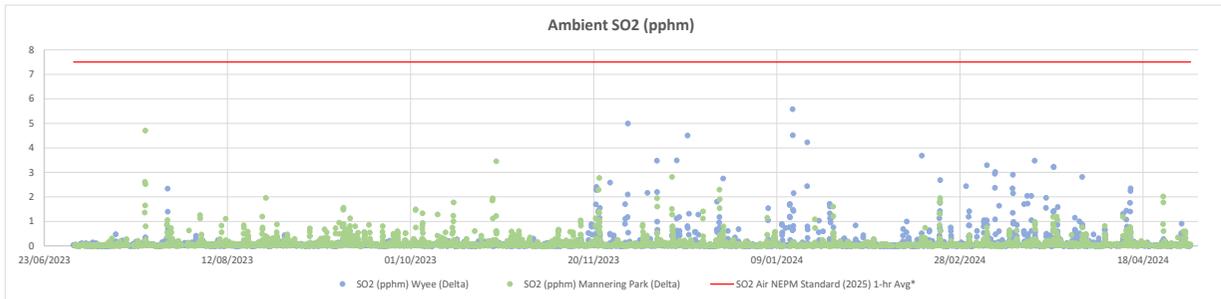
Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Samples Collected & Analysed	Date Sampled	Lowest Sample Value	Mean of Samples	Highest Sample Value	99 Percentile Concentration Limit	100 Percentile Concentration Limit	Exceedance (yes/no)	Comments
Apr-24	Aluminium	(mg/L)	Quarterly	1	2/04/2024	2.4	2.4	2.4				
Apr-24	Ammonia	(mg/L)	Quarterly	1	2/04/2024	0.27	0.27	0.27				
Apr-24	Arsenic (III)	(mg/L)	Quarterly	1	2/04/2024	<0.001	<0.001	<0.001				
Apr-24	Arsenic (V)	(mg/L)	Quarterly	1	2/04/2024	<0.001	<0.001	<0.001				
Apr-24	Cadmium	(mg/L)	Quarterly	1	2/04/2024	<0.0002	<0.0002	<0.0002				
Apr-24	Chromium (trivalent)	(mg/L)	Quarterly	1	2/04/2024	<0.005	<0.005	<0.005				
Apr-24	Chromium (VI) Compounds	(mg/L)	Quarterly	1	2/04/2024	<0.005	<0.005	<0.005				
Apr-24	Copper	(mg/L)	Quarterly	1	2/04/2024	0.004	0.004	0.004				
Apr-24	Electrical Conductivity	(us/cm)	Quarterly	1	2/04/2024	42140	42140	42140				
Apr-24	Iron	(mg/L)	Quarterly	1	2/04/2024	110	110	110				
Apr-24	Lead	(mg/L)	Quarterly	1	2/04/2024	0.004	0.004	0.004				
Apr-24	Magnesium	(mg/L)	Quarterly	1	2/04/2024	1200	1200	1200				
Apr-24	Manganese	(mg/L)	Quarterly	1	2/04/2024	0.24	0.24	0.24				
Apr-24	Nickel	(mg/L)	Quarterly	1	2/04/2024	0.003	0.003	0.003				
Apr-24	pH	pH	Quarterly	1	2/04/2024	6.53	6.53	6.53				
Apr-24	Potassium	(mg/L)	Quarterly	1	2/04/2024	330	330	330				
Apr-24	Selenium	(mg/L)	Quarterly	1	2/04/2024	<0.002	<0.002	<0.002				
Apr-24	Sodium	(mg/L)	Quarterly	1	2/04/2024	10000	10000	10000				
Apr-24	Standing Water Level	(m)	Quarterly	1	2/04/2024	0.61	0.61	0.61				
Apr-24	Vanadium	(mg/L)	Quarterly	1	2/04/2024	0.012	0.012	0.012				
Apr-24	Zinc	(mg/L)	Quarterly	1	2/04/2024	0.036	0.036	0.036				

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
Apr-24	Aluminium	(mg/L)	Quarterly	1	2/04/2024	1.30	1.30	1.30				
Apr-24	Ammonia	(mg/L)	Quarterly	1	2/04/2024	0.010	0.010	0.010				
Apr-24	Arsenic (III)	(mg/L)	Quarterly	1	2/04/2024	<0.001	<0.001	<0.001				
Apr-24	Arsenic (V)	(mg/L)	Quarterly	1	2/04/2024	0.001	0.001	0.001				
Apr-24	Cadmium	(mg/L)	Quarterly	1	2/04/2024	<0.0001	<0.0001	<0.0001				
Apr-24	Chromium (trivalent)	(mg/L)	Quarterly	1	2/04/2024	<0.005	<0.005	<0.005				
Apr-24	Chromium (VI) Compounds	(mg/L)	Quarterly	1	2/04/2024	<0.005	<0.005	<0.005				
Apr-24	Copper	(mg/L)	Quarterly	1	2/04/2024	0.002	0.002	0.002				
Apr-24	Electrical Conductivity	(us/cm)	Quarterly	1	2/04/2024	25	25	25				
Apr-24	Iron	(mg/L)	Quarterly	1	2/04/2024	3.0	3.0	3.0				
Apr-24	Lead	(mg/L)	Quarterly	1	2/04/2024	0.001	0.001	0.001				
Apr-24	Magnesium	(mg/L)	Quarterly	1	2/04/2024	9.6	9.6	9.6				
Apr-24	Manganese	(mg/L)	Quarterly	1	2/04/2024	0.081	0.081	0.081				
Apr-24	Nickel	(mg/L)	Quarterly	1	2/04/2024	0.005	0.005	0.005				
Apr-24	pH	pH	Quarterly	1	2/04/2024	5.16	5.16	5.16				
Apr-24	Potassium	(mg/L)	Quarterly	1	2/04/2024	3	3	3				
Apr-24	Selenium	(mg/L)	Quarterly	1	2/04/2024	<0.001	<0.001	<0.001				
Apr-24	Sodium	(mg/L)	Quarterly	1	2/04/2024	120	120	120				
Apr-24	Standing Water Level	(m)	Quarterly	1	2/04/2024	0.92	0.92	0.92				
Apr-24	Vanadium	(mg/L)	Quarterly	1	2/04/2024	0.008	0.008	0.008				
Apr-24	Zinc	(mg/L)	Quarterly	1	2/04/2024	0.012	0.012	0.012				

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>>