

Vales Point Power Station Monthly Environmental Data Summary



LICENCE NO	761	http://www.epa.nsw.gov.au/prpoeapp/
LICENCE HOLDER	SUNSET POWER INTERNATIONAL PTY LTD	
REPORTING PERIOD	October 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
Oct-24	Cadmium	(mg/m3)	Every 6 months							0.2	No	
Oct-24	Chlorine	(mg/m3)	Every 6 months							20	No	
Oct-24	Fluorine	(mg/m3)	Every 6 months							30	No	
Oct-24	Hydrogen chloride	(mg/m3)	Every 6 months							50	No	
Oct-24	Mercury	(mg/m3)	Every 6 months							0.05	No	
Oct-24	Nitrogen Oxides	(mg/m3)	Continuous	99.1%	Oct-24	312	602	803	850 (26/10/2022 to 28/10/2024)	980 (26/10/2022 to 28/10/2024) 800 (from 29/10/24)	No	803mg/m3 value occurred on 24/10/2024.
Oct-24	Solid Particles	(mg/m3)	Quarterly							50	No	
Oct-24	Sulfur dioxide	(mg/m3)	Continuous	99.1%	Oct-24	687	910	1056	1400	1700	No	
Oct-24	Sulfuric acid mist and sulfur trioxide (as SO3)	(mg/m3)	Every 6 months							100	No	
Oct-24	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months							0.75	No	
Oct-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
Oct-24	Cadmium	(mg/m3)	Every 6 months							0.2	No	
Oct-24	Chlorine	(mg/m3)	Every 6 months							20	No	
Oct-24	Fluorine	(mg/m3)	Every 6 months							30	No	
Oct-24	Hydrogen chloride	(mg/m3)	Every 6 months							50	No	
Oct-24	Mercury	(mg/m3)	Every 6 months							0.05	No	
Oct-24	Nitrogen Oxides	(mg/m3)	Continuous						850	980	No	Unit 6 out of service for entire month of October
Oct-24	Solid Particles	(mg/m3)	Quarterly							50	No	
Oct-24	Sulfur dioxide	(mg/m3)	Continuous						1400	1700	No	
Oct-24	Sulfuric acid mist and sulfur trioxide (as SO3)	(mg/m3)	Every 6 months							100	No	
Oct-24	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months							0.75	No	
Oct-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
Oct-24	Cadmium	(mg/m3)	Every 6 months								N/A	
Oct-24	Carbon dioxide	(%)	Every 6 months								N/A	
Oct-24	Chlorine	(mg/m3)	Every 6 months								N/A	
Oct-24	Fluorine	(mg/m3)	Every 6 months								N/A	
Oct-24	Hydrogen chloride	(mg/m3)	Every 6 months								N/A	
Oct-24	Mercury	(mg/m3)	Every 6 months								N/A	
Oct-24	Solid Particles	(mg/m3)	Quarterly								N/A	
Oct-24	Sulfuric acid mist and sulfur trioxide (as SO3)	(mg/m3)	Every 6 months								N/A	
Oct-24	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months								N/A	
Oct-24	VOC's as n-propane equivalent	(mg/m3)	Every 6 months								N/A	

POINT 5 Boiler number 5 exhaust - duct 8 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
Oct-24	Cadmium	(mg/m3)	Every 6 months								N/A	
Oct-24	Mercury	(mg/m3)	Every 6 months								N/A	
Oct-24	Solid Particles	(mg/m3)	Quarterly								N/A	
Oct-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
Oct-24	Cadmium	(mg/m3)	Every 6 months								N/A	
Oct-24	Carbon dioxide	(%)	Every 6 months								N/A	
Oct-24	Chlorine	(mg/m3)	Every 6 months								N/A	
Oct-24	Fluorine	(mg/m3)	Every 6 months								N/A	
Oct-24	Hydrogen chloride	(mg/m3)	Every 6 months								N/A	
Oct-24	Mercury	(mg/m3)	Every 6 months								N/A	
Oct-24	Solid Particles	(mg/m3)	Quarterly								N/A	
Oct-24	Sulfuric acid mist and sulfur trioxide (as SO3)	(mg/m3)	Every 6 months								N/A	
Oct-24	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months								N/A	
Oct-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
Oct-24	Cadmium	(mg/m3)	Every 6 months								N/A	
Oct-24	Mercury	(mg/m3)	Every 6 months								N/A	
Oct-24	Solid Particles	(mg/m3)	Quarterly								N/A	
Oct-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
Oct-24	Cadmium	(mg/m3)	Every 6 months								N/A	
Oct-24	Carbon dioxide	(%)	Every 6 months								N/A	
Oct-24	Chlorine	(mg/m3)	Every 6 months								N/A	
Oct-24	Fluorine	(mg/m3)	Every 6 months								N/A	
Oct-24	Hydrogen chloride	(mg/m3)	Every 6 months								N/A	
Oct-24	Mercury	(mg/m3)	Every 6 months								N/A	
Oct-24	Solid Particles	(mg/m3)	Quarterly								N/A	
Oct-24	Sulfuric acid mist and sulfur trioxide (as SO3)	(mg/m3)	Every 6 months								N/A	
Oct-24	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months								N/A	
Oct-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
Oct-24	Cadmium	(mg/m3)	Every 6 months								N/A	
Oct-24	Mercury	(mg/m3)	Every 6 months								N/A	
Oct-24	Solid Particles	(mg/m3)	Quarterly								N/A	
Oct-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
Oct-24	Cadmium	(mg/m3)	Every 6 months								N/A	
Oct-24	Carbon dioxide	(%)	Every 6 months								N/A	
Oct-24	Chlorine	(mg/m3)	Every 6 months								N/A	
Oct-24	Fluorine	(mg/m3)	Every 6 months								N/A	
Oct-24	Hydrogen chloride	(mg/m3)	Every 6 months								N/A	
Oct-24	Mercury	(mg/m3)	Every 6 months								N/A	
Oct-24	Solid Particles	(mg/m3)	Quarterly								N/A	
Oct-24	Sulfuric acid mist and sulfur trioxide (as SO3)	(mg/m3)	Every 6 months								N/A	
Oct-24	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months								N/A	
Oct-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
Oct-24	Cadmium	(mg/m3)	Every 6 months								N/A	
Oct-24	Mercury	(mg/m3)	Every 6 months								N/A	
Oct-24	Solid Particles	(mg/m3)	Quarterly								N/A	
Oct-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
Oct-24	Nitrogen Oxides	(mg/m3)	Continuous	99.1%	Oct-24	322	622	821			N/A	
Oct-24	Sulfur dioxide	(mg/m3)	Continuous	99.1%	Oct-24	568	852	1031			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
Oct-24	Nitrogen Oxides	(mg/m3)	Continuous	99.1%	Oct-24	302	581	818			N/A	
Oct-24	Sulfur dioxide	(mg/m3)	Continuous	99.1%	Oct-24	770	969	1131			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
Oct-24	Nitrogen Oxides	(mg/m3)	Continuous								N/A	
Oct-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
Oct-24	Nitrogen Oxides	(mg/m3)	Continuous								N/A	
Oct-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
Oct-24	Chlorine (free residual)	(mg/L)	Monthly during discharge	1	8/10/2024	0	0	0		0.2	No	
Oct-24	Copper	(mg/L)	Monthly during discharge	1	8/10/2024	<0.002	<0.002	<0.002		0.005	No	
Oct-24	Iron	(mg/L)	Monthly during discharge	1	8/10/2024	0.07	0.07	0.07		0.3	No	
Oct-24	Oil and Grease	Visible	Continuous during discharge	100%	Oct-24	NIL	NIL	NIL				
Oct-24	Selenium	(mg/L)	Monthly during discharge	1	8/10/2024	0.002	0.002	0.002		0.005	No	
Oct-24	Temperature	(°C)	Continuous during discharge	100%	Oct-24	19.1	27.6	31.4	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
Oct-24	Aluminium	(mg/L)	Monthly during discharge	1	8/10/2024	0.05	0.05	0.05				
Oct-24	Ammonia	(mg/L)	Monthly during discharge	1	8/10/2024	0.062	0.062	0.062				
Oct-24	Arsenic (III)	(mg/L)	Monthly during discharge	1	8/10/2024	<0.001	<0.001	<0.001				
Oct-24	Arsenic (V)	(mg/L)	Monthly during discharge	1	8/10/2024	0.01	0.01	0.01				
Oct-24	Cadmium	(mg/L)	Monthly during discharge	1	8/10/2024	<0.0002	<0.0002	<0.0002				
Oct-24	Chromium (trivalent)	(mg/L)	Monthly during discharge	1	8/10/2024	0.007	0.007	0.007				
Oct-24	Chromium (VI) Compounds	(mg/L)	Monthly during discharge	1	8/10/2024	0.01	0.01	0.01				
Oct-24	Copper	(mg/L)	Monthly during discharge	1	8/10/2024	0.006	0.006	0.006				
Oct-24	Iron	(mg/L)	Monthly during discharge	1	8/10/2024	0.2	0.2	0.2				
Oct-24	Lead	(mg/L)	Monthly during discharge	1	8/10/2024	0.004	0.004	0.004				
Oct-24	Manganese	(mg/L)	Monthly during discharge	1	8/10/2024	0.007	0.007	0.007				
Oct-24	Nickel	(mg/L)	Monthly during discharge	1	8/10/2024	<0.002	<0.002	<0.002				
Oct-24	Nitrate + nitrite (oxidised nitrogen)	(mg/L)	Monthly during discharge	1	8/10/2024	0.036	0.036	0.036				
Oct-24	Nitrogen	(mg/L)	Monthly during discharge	1	8/10/2024	0.3	0.3	0.3				
Oct-24	pH	pH	Monthly during discharge	1	8/10/2024	9.04	9.04	9.04		6.5 - 9.5	No	
Oct-24	Phosphorus	(mg/L)	Monthly during discharge	1	8/10/2024	0.1	0.1	0.1				
Oct-24	Reactive Phosphorus	(mg/L)	Monthly during discharge	1	8/10/2024	0.08	0.08	0.08				
Oct-24	Selenium	(mg/L)	Monthly during discharge	1	8/10/2024	0.043	0.043	0.043				
Oct-24	Total Kjeldahl Nitrogen	(mg/L)	Monthly during discharge	1	8/10/2024	0.2	0.2	0.2				
Oct-24	Total Suspended Solids	(mg/L)	Monthly during discharge	1	8/10/2024	9	9	9		50	No	
Oct-24	Vanadium	(mg/L)	Monthly during discharge	1	8/10/2024	0.11	0.11	0.11				
Oct-24	Zinc	(mg/L)	Monthly during discharge	1	8/10/2024	0.045	0.045	0.045				

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
Oct-24	Aluminium	(mg/L)	Monthly during discharge	1	8/10/2024				No			
Oct-24	Ammonia	(mg/L)	Monthly during discharge	1	8/10/2024				No			
Oct-24	Arsenic (III)	(mg/L)	Monthly during discharge	1	8/10/2024				No			
Oct-24	Arsenic (V)	(mg/L)	Monthly during discharge	1	8/10/2024				No			
Oct-24	Cadmium	(mg/L)	Monthly during discharge	1	8/10/2024				No			
Oct-24	Chromium (trivalent)	(mg/L)	Monthly during discharge	1	8/10/2024				No			
Oct-24	Chromium (VI) Compounds	(mg/L)	Monthly during discharge	1	8/10/2024				No			
Oct-24	Copper	(mg/L)	Monthly during discharge	1	8/10/2024				No			
Oct-24	Iron	(mg/L)	Monthly during discharge	1	8/10/2024				No			
Oct-24	Lead	(mg/L)	Monthly during discharge	1	8/10/2024				No			
Oct-24	Manganese	(mg/L)	Monthly during discharge	1	8/10/2024				No			No discharge from EPA Point 24 during October 2024
Oct-24	Nickel	(mg/L)	Monthly during discharge	1	8/10/2024				No			
Oct-24	Nitrate + nitrite (oxidised nitrogen)	(mg/L)	Monthly during discharge	1	8/10/2024				No			
Oct-24	Nitrogen	(mg/L)	Monthly during discharge	1	8/10/2024				No			
Oct-24	pH	pH	Monthly during discharge	1	8/10/2024				No	6.5 - 9.5	No	
Oct-24	Phosphorus	(mg/L)	Monthly during discharge	1	8/10/2024				No			
Oct-24	Reactive Phosphorus	(mg/L)	Monthly during discharge	1	8/10/2024				No			
Oct-24	Selenium	(mg/L)	Monthly during discharge	1	8/10/2024				No			
Oct-24	Total Kjeldahl Nitrogen	(mg/L)	Monthly during discharge	1	8/10/2024				No			
Oct-24	Total Suspended Solids	(mg/L)	Monthly during discharge	1	8/10/2024				No	50	No	
Oct-24	Vanadium	(mg/L)	Monthly during discharge	1	8/10/2024				No			
Oct-24	Zinc	(mg/L)	Monthly during discharge	1	8/10/2024				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
Oct-24	Aluminium	(mg/L)	Daily for any discharge >2 hrs						No			
Oct-24	Ammonia	(mg/L)	Daily for any discharge >2 hrs						No			
Oct-24	Arsenic (III)	(mg/L)	Daily for any discharge >2 hrs						No			
Oct-24	Arsenic (V)	(mg/L)	Daily for any discharge >2 hrs						No			
Oct-24	Cadmium	(mg/L)	Daily for any discharge >2 hrs						No			
Oct-24	Chromium (trivalent)	(mg/L)	Daily for any discharge >2 hrs						No			
Oct-24	Chromium (VI) Compounds	(mg/L)	Daily for any discharge >2 hrs						No			
Oct-24	Copper	(mg/L)	Daily for any discharge >2 hrs						No			
Oct-24	Iron	(mg/L)	Daily for any discharge >2 hrs						No			
Oct-24	Lead	(mg/L)	Daily for any discharge >2 hrs						No			
Oct-24	Manganese	(mg/L)	Daily for any discharge >2 hrs						No			
Oct-24	Nickel	(mg/L)	Daily for any discharge >2 hrs						No			No discharge from EPA Point 25 during October 2024
Oct-24	Nitrate + nitrite (oxidised nitrogen)	(mg/L)	Daily for any discharge >2 hrs						No			
Oct-24	Nitrogen	(mg/L)	Daily for any discharge >2 hrs						No			
Oct-24	pH	pH	Daily for any discharge >2 hrs						No	6.5 - 9.5		
Oct-24	Phosphorus	(mg/L)	Daily for any discharge >2 hrs						No			
Oct-24	Reactive Phosphorus	(mg/L)	Daily for any discharge >2 hrs						No			
Oct-24	Selenium	(mg/L)	Daily for any discharge >2 hrs						No			
Oct-24	Total Kjeldahl Nitrogen	(mg/L)	Daily for any discharge >2 hrs						No			
Oct-24	Total Suspended Solids	(mg/L)	Daily for any discharge >2 hrs						No	50		
Oct-24	Vanadium	(mg/L)	Daily for any discharge >2 hrs						No			
Oct-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
Oct-24	Aluminium	(mg/L)	Quarterly	1	8/10/2024	2.00	2.00	2.00				
Oct-24	Ammonia	(mg/L)	Quarterly	1	8/10/2024	3.0	3.0	3.0				
Oct-24	Arsenic (III)	(mg/L)	Quarterly	1	8/10/2024	0.004	0.004	0.004				
Oct-24	Arsenic (V)	(mg/L)	Quarterly	1	8/10/2024	0.005	0.005	0.005				
Oct-24	Cadmium	(mg/L)	Quarterly	1	8/10/2024	<0.0001	<0.0001	<0.0001				
Oct-24	Chromium (trivalent)	(mg/L)	Quarterly	1	8/10/2024	<0.005	<0.005	<0.005				
Oct-24	Chromium (VI) Compounds	(mg/L)	Quarterly	1	8/10/2024	<0.005	<0.005	<0.005				
Oct-24	Copper	(mg/L)	Quarterly	1	8/10/2024	0.014	0.014	0.014				
Oct-24	Electrical Conductivity	(us/cm)	Quarterly	1	8/10/2024	257.1	257.1	257.1				
Oct-24	Iron	(mg/L)	Quarterly	1	8/10/2024	81.0	81.0	81.0				
Oct-24	Lead	(mg/L)	Quarterly	1	8/10/2024	0.004	0.004	0.004				Next sample scheduled for January 2025
Oct-24	Magnesium	(mg/L)	Quarterly	1	8/10/2024	810	810	810				
Oct-24	Manganese	(mg/L)	Quarterly	1	8/10/2024	4.5	4.5	4.5				
Oct-24	Nickel	(mg/L)	Quarterly	1	8/10/2024	0.042	0.042	0.042				
Oct-24	pH	pH	Quarterly	1	8/10/2024	6.14	6.14	6.14				
Oct-24	Potassium	(mg/L)	Quarterly	1	8/10/2024	110	110	110				
Oct-24	Selenium	(mg/L)	Quarterly	1	8/10/2024	<0.001	<0.001	<0.001				
Oct-24	Sodium	(mg/L)	Quarterly	1	8/10/2024	6800	6800	6800				
Oct-24	Standing Water Level	(m)	Quarterly	1	8/10/2024	3.85	3.85	3.85				
Oct-24	Vanadium	(mg/L)	Quarterly	1	8/10/2024	0.006	0.006	0.006				
Oct-24	Zinc	(mg/L)	Quarterly	1	8/10/2024	0.110	0.110	0.110				

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
Oct-24	Aluminium	(mg/L)	Quarterly	1	8/10/2024	1.30	1.30	1.30				
Oct-24	Ammonia	(mg/L)	Quarterly	1	8/10/2024	0.24	0.24	0.24				
Oct-24	Arsenic (III)	(mg/L)	Quarterly	1	8/10/2024	0.002	0.002	0.002				
Oct-24	Arsenic (V)	(mg/L)	Quarterly	1	8/10/2024	0.001	0.001	0.001				
Oct-24	Cadmium	(mg/L)	Quarterly	1	8/10/2024	<0.0001	<0.0001	<0.0001				
Oct-24	Chromium (trivalent)	(mg/L)	Quarterly	1	8/10/2024	<0.005	<0.005	<0.005				
Oct-24	Chromium (VI) Compounds	(mg/L)	Quarterly	1	8/10/2024	<0.005	<0.005	<0.005				
Oct-24	Copper	(mg/L)	Quarterly	1	8/10/2024	0.015	0.015	0.015				
Oct-24	Electrical Conductivity	(us/cm)	Quarterly	1	8/10/2024	12263	12263	12263				
Oct-24	Iron	(mg/L)	Quarterly	1	8/10/2024	92	92	92				
Oct-24	Lead	(mg/L)	Quarterly	1	8/10/2024	0.007	0.007	0.007				Next sample scheduled for January 2025
Oct-24	Magnesium	(mg/L)	Quarterly	1	8/10/2024	310	310	310				
Oct-24	Manganese	(mg/L)	Quarterly	1	8/10/2024	1.5	1.5	1.5				
Oct-24	Nickel	(mg/L)	Quarterly	1	8/10/2024	0.061	0.061	0.061				
Oct-24	pH	pH	Quarterly	1	8/10/2024	5.48	5.48	5.48				
Oct-24	Potassium	(mg/L)	Quarterly	1	8/10/2024	22.0	22.0	22.0				
Oct-24	Selenium	(mg/L)	Quarterly	1	8/10/2024	0.003	0.003	0.003				
Oct-24	Sodium	(mg/L)	Quarterly	1	8/10/2024	2300	2300	2300				
Oct-24	Standing Water Level	(m)	Quarterly	1	8/10/2024	1.65	1.65	1.65				
Oct-24	Vanadium	(mg/L)	Quarterly	1	8/10/2024	0.004	0.004	0.004				
Oct-24	Zinc	(mg/L)	Quarterly	1	8/10/2024	0.75	0.75	0.75				

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
Oct-24	Aluminium	(mg/L)	Quarterly	1	8/10/2024	1.50	1.50	1.50				
Oct-24	Ammonia	(mg/L)	Quarterly	1	8/10/2024	0.04	0.04	0.04				
Oct-24	Arsenic (III)	(mg/L)	Quarterly	1	8/10/2024	<0.001	<0.001	<0.001				
Oct-24	Arsenic (V)	(mg/L)	Quarterly	1	8/10/2024	<0.001	<0.001	<0.001				
Oct-24	Cadmium	(mg/L)	Quarterly	1	8/10/2024	<0.0001	<0.0001	<0.0001				
Oct-24	Chromium (trivalent)	(mg/L)	Quarterly	1	8/10/2024	<0.005	<0.005	<0.005				
Oct-24	Chromium (VI) Compounds	(mg/L)	Quarterly	1	8/10/2024	<0.005	<0.005	<0.005				
Oct-24	Copper	(mg/L)	Quarterly	1	8/10/2024	0.005	0.005	0.005				
Oct-24	Electrical Conductivity	(us/cm)	Quarterly	1	8/10/2024	746	746	746				
Oct-24	Iron	(mg/L)	Quarterly	1	8/10/2024	12	12	12				
Oct-24	Lead	(mg/L)	Quarterly	1	8/10/2024	0.003	0.003	0.003				Next sample scheduled for January 2025
Oct-24	Magnesium	(mg/L)	Quarterly	1	8/10/2024	12	12	12				
Oct-24	Manganese	(mg/L)	Quarterly	1	8/10/2024	0.110	0.110	0.110				
Oct-24	Nickel	(mg/L)	Quarterly	1	8/10/2024	0.017	0.017	0.017				
Oct-24	pH	pH	Quarterly	1	8/10/2024	6.05	6.05	6.05				
Oct-24	Potassium	(mg/L)	Quarterly	1	8/10/2024	3.0	3.0	3.0				
Oct-24	Selenium	(mg/L)	Quarterly	1	8/10/2024	<0.001	<0.001	<0.001				
Oct-24	Sodium	(mg/L)	Quarterly	1	8/10/2024	100	100	100				
Oct-24	Standing Water Level	(m)	Quarterly	1	8/10/2024	3.70	3.70	3.70				
Oct-24	Vanadium	(mg/L)	Quarterly	1	8/10/2024	0.003	0.003	0.003				
Oct-24	Zinc	(mg/L)	Quarterly	1	8/10/2024	0.028	0.028	0.028				

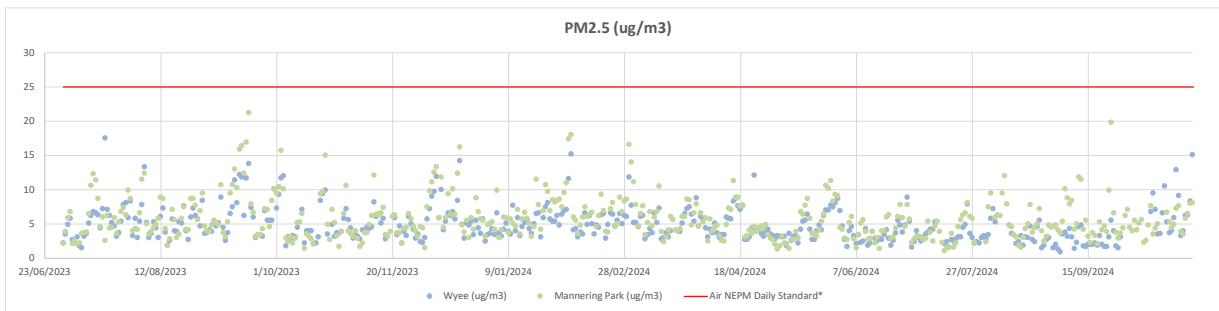
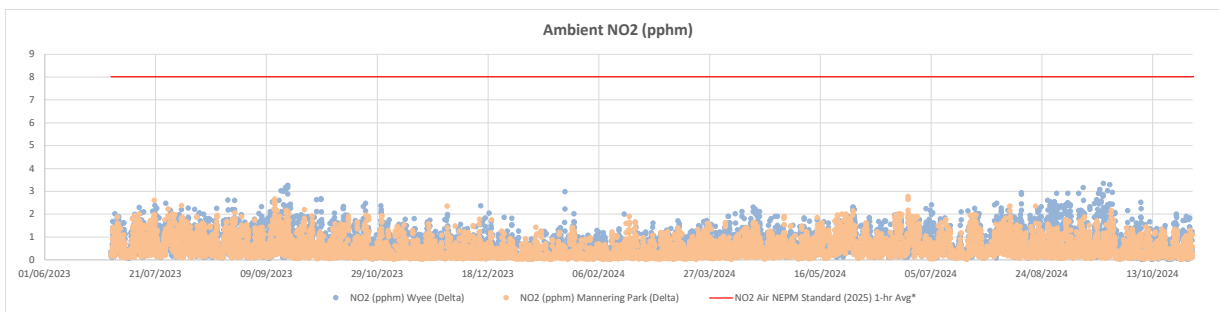
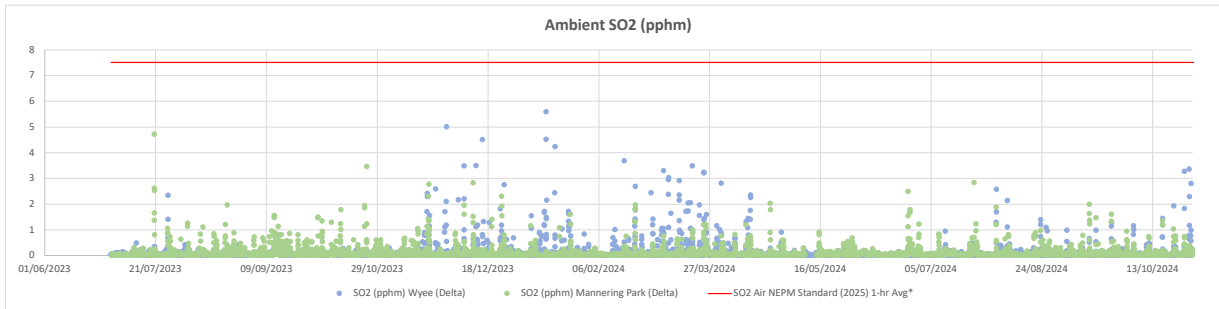
POINT 33 Groundwater quality monitoring bore marked and shown as EPA ID 33 on The Plans ("VX837351-1 AND "VX837351-2" 03/06/2020 EPA REFERENCE DOC20/476695 AND DOC20/476695-1).												
Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Samples Collected & Analysed	Date Sampled	Lowest Sample Value	Mean of Samples	Highest Sample Value	99 Percentile Concentration Limit	100 Percentile Concentration Limit	Exceedance (yes/no)	Comments
Oct-24	Aluminium	(mg/L)	Quarterly	1	8/10/2024	0.62	0.62	0.62				
Oct-24	Ammonia	(mg/L)	Quarterly	1	8/10/2024	<0.005	<0.005	<0.005				
Oct-24	Arsenic (III)	(mg/L)	Quarterly	1	8/10/2024	<0.001	<0.001	<0.001				
Oct-24	Arsenic (V)	(mg/L)	Quarterly	1	8/10/2024	<0.001	<0.001	<0.001				
Oct-24	Cadmium	(mg/L)	Quarterly	1	8/10/2024	0.0001	0.0001	0.0001				
Oct-24	Chromium (trivalent)	(mg/L)	Quarterly	1	8/10/2024	<0.005	<0.005	<0.005				
Oct-24	Chromium (VI) Compounds	(mg/L)	Quarterly	1	8/10/2024	<0.005	<0.005	<0.005				
Oct-24	Copper	(mg/L)	Quarterly	1	8/10/2024	0.003	0.003	0.003				
Oct-24	Electrical Conductivity	(us/cm)	Quarterly	1	8/10/2024	44322	44322	44322				
Oct-24	Iron	(mg/L)	Quarterly	1	8/10/2024	48	48	48				
Oct-24	Lead	(mg/L)	Quarterly	1	8/10/2024	0.001	0.001	0.001				Next sample scheduled for January 2025
Oct-24	Magnesium	(mg/L)	Quarterly	1	8/10/2024	1200	1200	1200				
Oct-24	Manganese	(mg/L)	Quarterly	1	8/10/2024	0.41	0.41	0.41				
Oct-24	Nickel	(mg/L)	Quarterly	1	8/10/2024	0.032	0.032	0.032				
Oct-24	pH	pH	Quarterly	1	8/10/2024	6.67	6.67	6.67				
Oct-24	Potassium	(mg/L)	Quarterly	1	8/10/2024	360	360	360				
Oct-24	Selenium	(mg/L)	Quarterly	1	8/10/2024	0.001	0.001	0.001				
Oct-24	Sodium	(mg/L)	Quarterly	1	8/10/2024	11000	11000	11000				
Oct-24	Standing Water Level	(m)	Quarterly	1	8/10/2024	0.50	0.50	0.50				
Oct-24	Vanadium	(mg/L)	Quarterly	1	8/10/2024	0.006	0.006	0.006				
Oct-24	Zinc	(mg/L)	Quarterly	1	8/10/2024	0.077	0.077	0.077				

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
Oct-24	Aluminium	(mg/L)	Quarterly	1	8/10/2024	1.2	1.2	1.2				
Oct-24	Ammonia	(mg/L)	Quarterly	1	8/10/2024	0.016	0.016	0.016				
Oct-24	Arsenic (III)	(mg/L)	Quarterly	1	8/10/2024	<0.001	<0.001	<0.001				
Oct-24	Arsenic (V)	(mg/L)	Quarterly	1	8/10/2024	<0.001	<0.001	<0.001				
Oct-24	Cadmium	(mg/L)	Quarterly	1	8/10/2024	<0.0001	<0.0001	<0.0001				
Oct-24	Chromium (trivalent)	(mg/L)	Quarterly	1	8/10/2024	<0.005	<0.005	<0.005				
Oct-24	Chromium (VI) Compounds	(mg/L)	Quarterly	1	8/10/2024	<0.005	<0.005	<0.005				
Oct-24	Copper	(mg/L)	Quarterly	1	8/10/2024	0.007	0.007	0.007				
Oct-24	Electrical Conductivity	(us/cm)	Quarterly	1	8/10/2024	142	142	142				
Oct-24	Iron	(mg/L)	Quarterly	1	8/10/2024	8.1	8.1	8.1				
Oct-24	Lead	(mg/L)	Quarterly	1	8/10/2024	0.004	0.004	0.004				Next sample scheduled for January 2025
Oct-24	Magnesium	(mg/L)	Quarterly	1	8/10/2024	8.5	8.5	8.5				
Oct-24	Manganese	(mg/L)	Quarterly	1	8/10/2024	0.081	0.081	0.081				
Oct-24	Nickel	(mg/L)	Quarterly	1	8/10/2024	0.015	0.015	0.015				
Oct-24	pH	pH	Quarterly	1	8/10/2024	5.22	5.22	5.22				
Oct-24	Potassium	(mg/L)	Quarterly	1	8/10/2024	3	3	3				
Oct-24	Selenium	(mg/L)	Quarterly	1	8/10/2024	<0.001	<0.001	<0.001				
Oct-24	Sodium	(mg/L)	Quarterly	1	8/10/2024	100	100	100				
Oct-24	Standing Water Level	(m)	Quarterly	1	8/10/2024	0.55	0.55	0.55				
Oct-24	Vanadium	(mg/L)	Quarterly	1	8/10/2024	0.022	0.022	0.022				
Oct-24	Zinc	(mg/L)	Quarterly	1	8/10/2024	0.079	0.079	0.079				

Ambient Air Quality Graphs

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