

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	July 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
Jul-24	Cadmium	(mg/m3)	Every 6 months							0.2	No	
Jul-24	Chlorine	(mg/m3)	Every 6 months							20	No	
Jul-24	Fluorine	(mg/m3)	Every 6 months							30	No	
Jul-24	Hydrogen chloride	(mg/m3)	Every 6 months							50	No	
Jul-24	Mercury	(mg/m3)	Every 6 months							0.05	No	
Jul-24	Nitrogen Oxides	(mg/m3)	Continuous	88.3%	Jul-24	325	604	749	850	980	No	
Jul-24	Solid Particles	(mg/m3)	Quarterly							50	No	
Jul-24	Sulfur dioxide	(mg/m3)	Continuous	88.3%	Jul-24	710	877	1023	1400	1700	No	
Jul-24	Sulfuric acid mist and sulfur trioxide (as SO3)	(mg/m3)	Every 6 months							100	No	
Jul-24	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months							0.75	No	
Jul-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
Jul-24	Cadmium	(mg/m3)	Every 6 months							0.2	No	
Jul-24	Chlorine	(mg/m3)	Every 6 months							20	No	
Jul-24	Fluorine	(mg/m3)	Every 6 months							30	No	
Jul-24	Hydrogen chloride	(mg/m3)	Every 6 months							50	No	
Jul-24	Mercury	(mg/m3)	Every 6 months							0.05	No	
Jul-24	Nitrogen Oxides	(mg/m3)	Continuous	90.3%	Jul-24	432	588	707	850	980	No	
Jul-24	Solid Particles	(mg/m3)	Quarterly							50	No	
Jul-24	Sulfur dioxide	(mg/m3)	Continuous	90.3%	Jul-24	674	870	1033	1400	1700	No	
Jul-24	Sulfuric acid mist and sulfur trioxide (as SO3)	(mg/m3)	Every 6 months							100	No	
Jul-24	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months							0.75	No	
Jul-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
Jul-24	Cadmium	(mg/m3)	Every 6 months								N/A	
Jul-24	Carbon dioxide	(%)	Every 6 months								N/A	
Jul-24	Chlorine	(mg/m3)	Every 6 months								N/A	
Jul-24	Fluorine	(mg/m3)	Every 6 months								N/A	
Jul-24	Hydrogen chloride	(mg/m3)	Every 6 months								N/A	
Jul-24	Mercury	(mg/m3)	Every 6 months								N/A	
Jul-24	Solid Particles	(mg/m3)	Quarterly								N/A	
Jul-24	Sulfuric acid mist and sulfur trioxide (as SO3)	(mg/m3)	Every 6 months								N/A	
Jul-24	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months								N/A	
Jul-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
Jul-24	Cadmium	(mg/m3)	Every 6 months								N/A	
Jul-24	Mercury	(mg/m3)	Every 6 months								N/A	
Jul-24	Solid Particles	(mg/m3)	Quarterly								N/A	
Jul-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
Jul-24	Cadmium	(mg/m3)	Every 6 months								N/A	
Jul-24	Carbon dioxide	(%)	Every 6 months								N/A	
Jul-24	Chlorine	(mg/m3)	Every 6 months								N/A	
Jul-24	Fluorine	(mg/m3)	Every 6 months								N/A	
Jul-24	Hydrogen chloride	(mg/m3)	Every 6 months								N/A	
Jul-24	Mercury	(mg/m3)	Every 6 months								N/A	
Jul-24	Solid Particles	(mg/m3)	Quarterly								N/A	
Jul-24	Sulfuric acid mist and sulfur trioxide (as SO3)	(mg/m3)	Every 6 months								N/A	
Jul-24	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months								N/A	
Jul-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
Jul-24	Cadmium	(mg/m3)	Every 6 months								N/A	
Jul-24	Mercury	(mg/m3)	Every 6 months								N/A	
Jul-24	Solid Particles	(mg/m3)	Quarterly								N/A	
Jul-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
Jul-24	Cadmium	(mg/m3)	Every 6 months								N/A	
Jul-24	Carbon dioxide	(%)	Every 6 months								N/A	
Jul-24	Chlorine	(mg/m3)	Every 6 months								N/A	
Jul-24	Fluorine	(mg/m3)	Every 6 months								N/A	
Jul-24	Hydrogen chloride	(mg/m3)	Every 6 months								N/A	
Jul-24	Mercury	(mg/m3)	Every 6 months								N/A	
Jul-24	Solid Particles	(mg/m3)	Quarterly								N/A	
Jul-24	Sulfuric acid mist and sulfur trioxide (as SO3)	(mg/m3)	Every 6 months								N/A	
Jul-24	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months								N/A	
Jul-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
Jul-24	Cadmium	(mg/m3)	Every 6 months								N/A	
Jul-24	Mercury	(mg/m3)	Every 6 months								N/A	
Jul-24	Solid Particles	(mg/m3)	Quarterly								N/A	
Jul-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
Jul-24	Cadmium	(mg/m3)	Every 6 months								N/A	
Jul-24	Carbon dioxide	(%)	Every 6 months								N/A	
Jul-24	Chlorine	(mg/m3)	Every 6 months								N/A	
Jul-24	Fluorine	(mg/m3)	Every 6 months								N/A	
Jul-24	Hydrogen chloride	(mg/m3)	Every 6 months								N/A	
Jul-24	Mercury	(mg/m3)	Every 6 months								N/A	
Jul-24	Solid Particles	(mg/m3)	Quarterly								N/A	
Jul-24	Sulfuric acid mist and sulfur trioxide (as SO3)	(mg/m3)	Every 6 months								N/A	
Jul-24	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months								N/A	
Jul-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
Jul-24	Cadmium	(mg/m3)	Every 6 months								N/A	
Jul-24	Mercury	(mg/m3)	Every 6 months								N/A	
Jul-24	Solid Particles	(mg/m3)	Quarterly								N/A	
Jul-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
Jul-24	Nitrogen Oxides	(mg/m3)	Continuous	88.3%	Jul-24	354	624	791			N/A	
Jul-24	Sulfur dioxide	(mg/m3)	Continuous	88.3%	Jul-24	617	801	943			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
Jul-24	Nitrogen Oxides	(mg/m3)	Continuous	88.3%	Jul-24	292	585	750			N/A	
Jul-24	Sulfur dioxide	(mg/m3)	Continuous	88.3%	Jul-24	716	954	1207			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
Jul-24	Nitrogen Oxides	(mg/m3)	Continuous	90.2%	Jul-24	394	567	727			N/A	
Jul-24	Sulfur dioxide	(mg/m3)	Continuous	90.2%	Jul-24	670	890	1113			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
Jul-24	Nitrogen Oxides	(mg/m3)	Continuous	90.4%	Jul-24	441	609	760			N/A	
Jul-24	Sulfur dioxide	(mg/m3)	Continuous	90.4%	Jul-24	565	850	991			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
Jul-24	Chlorine (free residual)	(mg/L)	Monthly during discharge	1	2/07/2024	0	0	0		0.2	No	
Jul-24	Copper	(mg/L)	Monthly during discharge	1	2/07/2024	0.001	0.001	0.001		0.005	No	
Jul-24	Iron	(mg/L)	Monthly during discharge	1	2/07/2024	0.13	0.13	0.13		0.3	No	
Jul-24	Oil and Grease	Visible	Continuous during discharge	100%	Jul-24	NIL	NIL	NIL				
Jul-24	Selenium	(mg/L)	Monthly during discharge	1	2/07/2024	0.002	0.002	0.002		0.005	No	
Jul-24	Temperature	(°C)	Continuous during discharge	100%	Jul-24	18.0	24.1	28.6	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
Jul-24	Aluminium	(mg/L)	Monthly during discharge	1	2/07/2024	0.27	0.27	0.27				
Jul-24	Ammonia	(mg/L)	Monthly during discharge	1	2/07/2024	0.150	0.150	0.150				
Jul-24	Arsenic (III)	(mg/L)	Monthly during discharge	1	2/07/2024	<0.001	<0.001	<0.001				
Jul-24	Arsenic (V)	(mg/L)	Monthly during discharge	1	2/07/2024	0.007	0.007	0.007				
Jul-24	Cadmium	(mg/L)	Monthly during discharge	1	2/07/2024	<0.0001	<0.0001	<0.0001				
Jul-24	Chromium (trivalent)	(mg/L)	Monthly during discharge	1	2/07/2024	0.010	0.010	0.010				
Jul-24	Chromium (VI) Compounds	(mg/L)	Monthly during discharge	1	2/07/2024	0.040	0.040	0.040				
Jul-24	Copper	(mg/L)	Monthly during discharge	1	2/07/2024	0.011	0.011	0.011				
Jul-24	Iron	(mg/L)	Monthly during discharge	1	2/07/2024	0.550	0.550	0.550				
Jul-24	Lead	(mg/L)	Monthly during discharge	1	2/07/2024	0.0030	0.0030	0.0030				
Jul-24	Manganese	(mg/L)	Monthly during discharge	1	2/07/2024	0.0200	0.0200	0.0200				
Jul-24	Nickel	(mg/L)	Monthly during discharge	1	2/07/2024	0.004	0.004	0.004				
Jul-24	Nitrate + nitrite (oxidised nitrogen)	(mg/L)	Monthly during discharge	1	2/07/2024	0.062	0.062	0.062				
Jul-24	Nitrogen	(mg/L)	Monthly during discharge	1	2/07/2024	0.50	0.50	0.50				
Jul-24	pH	pH	Monthly during discharge	1	2/07/2024	9.35	9.35	9.35		6.5 - 9.5	No	
Jul-24	Phosphorus	(mg/L)	Monthly during discharge	1	2/07/2024	0.10	0.10	0.10				
Jul-24	Reactive Phosphorus	(mg/L)	Monthly during discharge	1	2/07/2024	0.03	0.03	0.03				
Jul-24	Selenium	(mg/L)	Monthly during discharge	1	2/07/2024	0.061	0.061	0.061				
Jul-24	Total Kjeldahl Nitrogen	(mg/L)	Monthly during discharge	1	2/07/2024	0.4	0.4	0.4				
Jul-24	Total Suspended Solids	(mg/L)	Monthly during discharge	1	2/07/2024	22	22	22		50	No	
Jul-24	Vanadium	(mg/L)	Monthly during discharge	1	2/07/2024	0.09	0.09	0.09				
Jul-24	Zinc	(mg/L)	Monthly during discharge	1	2/07/2024	0.062	0.062	0.062				

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
Jul-24	Aluminium	(mg/L)	Monthly during discharge	1	2/07/2024				No			
Jul-24	Ammonia	(mg/L)	Monthly during discharge	1	2/07/2024				No			
Jul-24	Arsenic (III)	(mg/L)	Monthly during discharge	1	2/07/2024				No			
Jul-24	Arsenic (V)	(mg/L)	Monthly during discharge	1	2/07/2024				No			
Jul-24	Cadmium	(mg/L)	Monthly during discharge	1	2/07/2024				No			
Jul-24	Chromium (trivalent)	(mg/L)	Monthly during discharge	1	2/07/2024				No			
Jul-24	Chromium (VI) Compounds	(mg/L)	Monthly during discharge	1	2/07/2024				No			
Jul-24	Copper	(mg/L)	Monthly during discharge	1	2/07/2024				No			
Jul-24	Iron	(mg/L)	Monthly during discharge	1	2/07/2024				No			
Jul-24	Lead	(mg/L)	Monthly during discharge	1	2/07/2024				No			
Jul-24	Manganese	(mg/L)	Monthly during discharge	1	2/07/2024				No			No discharge from EPA Point 24 during July 2024
Jul-24	Nickel	(mg/L)	Monthly during discharge	1	2/07/2024				No			
Jul-24	Nitrate + nitrite (oxidised nitrogen)	(mg/L)	Monthly during discharge	1	2/07/2024				No			
Jul-24	Nitrogen	(mg/L)	Monthly during discharge	1	2/07/2024				No			
Jul-24	pH	pH	Monthly during discharge	1	2/07/2024				No	6.5 - 9.5	No	
Jul-24	Phosphorus	(mg/L)	Monthly during discharge	1	2/07/2024				No			
Jul-24	Reactive Phosphorus	(mg/L)	Monthly during discharge	1	2/07/2024				No			
Jul-24	Selenium	(mg/L)	Monthly during discharge	1	2/07/2024				No			
Jul-24	Total Kjeldahl Nitrogen	(mg/L)	Monthly during discharge	1	2/07/2024				No			
Jul-24	Total Suspended Solids	(mg/L)	Monthly during discharge	1	2/07/2024				No	50	No	
Jul-24	Vanadium	(mg/L)	Monthly during discharge	1	2/07/2024				No			
Jul-24	Zinc	(mg/L)	Monthly during discharge	1	2/07/2024				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
Jul-24	Aluminium	(mg/L)	Daily for any discharge >2 hrs						No			
Jul-24	Ammonia	(mg/L)	Daily for any discharge >2 hrs						No			
Jul-24	Arsenic (III)	(mg/L)	Daily for any discharge >2 hrs						No			
Jul-24	Arsenic (V)	(mg/L)	Daily for any discharge >2 hrs						No			
Jul-24	Cadmium	(mg/L)	Daily for any discharge >2 hrs						No			
Jul-24	Chromium (trivalent)	(mg/L)	Daily for any discharge >2 hrs						No			
Jul-24	Chromium (VI) Compounds	(mg/L)	Daily for any discharge >2 hrs						No			
Jul-24	Copper	(mg/L)	Daily for any discharge >2 hrs						No			
Jul-24	Iron	(mg/L)	Daily for any discharge >2 hrs						No			
Jul-24	Lead	(mg/L)	Daily for any discharge >2 hrs						No			
Jul-24	Manganese	(mg/L)	Daily for any discharge >2 hrs						No			
Jul-24	Nickel	(mg/L)	Daily for any discharge >2 hrs						No			No discharge from EPA Point 25 during July 2024
Jul-24	Nitrate + nitrite (oxidised nitrogen)	(mg/L)	Daily for any discharge >2 hrs						No			
Jul-24	Nitrogen	(mg/L)	Daily for any discharge >2 hrs						No			
Jul-24	pH	pH	Daily for any discharge >2 hrs						No	6.5 - 9.5		
Jul-24	Phosphorus	(mg/L)	Daily for any discharge >2 hrs						No			
Jul-24	Reactive Phosphorus	(mg/L)	Daily for any discharge >2 hrs						No			
Jul-24	Selenium	(mg/L)	Daily for any discharge >2 hrs						No			
Jul-24	Total Kjeldahl Nitrogen	(mg/L)	Daily for any discharge >2 hrs						No			
Jul-24	Total Suspended Solids	(mg/L)	Daily for any discharge >2 hrs						No	50		
Jul-24	Vanadium	(mg/L)	Daily for any discharge >2 hrs						No			
Jul-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
Jul-24	Aluminium	(mg/L)	Quarterly	1	2/07/2024	2.10	2.10	2.10				
Jul-24	Ammonia	(mg/L)	Quarterly	1	2/07/2024	3.4	3.4	3.4				
Jul-24	Arsenic (III)	(mg/L)	Quarterly	1	2/07/2024	0.002	0.002	0.002				
Jul-24	Arsenic (V)	(mg/L)	Quarterly	1	2/07/2024	0.004	0.004	0.004				
Jul-24	Cadmium	(mg/L)	Quarterly	1	2/07/2024	<0.0001	<0.0001	<0.0001				
Jul-24	Chromium (trivalent)	(mg/L)	Quarterly	1	2/07/2024	<0.005	<0.005	<0.005				
Jul-24	Chromium (VI) Compounds	(mg/L)	Quarterly	1	2/07/2024	<0.005	<0.005	<0.005				
Jul-24	Copper	(mg/L)	Quarterly	1	2/07/2024	0.011	0.011	0.011				
Jul-24	Electrical Conductivity	(us/cm)	Quarterly	1	2/07/2024	31498	31498	31498				
Jul-24	Iron	(mg/L)	Quarterly	1	2/07/2024	60.0	60.0	60.0				
Jul-24	Lead	(mg/L)	Quarterly	1	2/07/2024	0.006	0.006	0.006				Next sample scheduled for October 2024
Jul-24	Magnesium	(mg/L)	Quarterly	1	2/07/2024	710	710	710				
Jul-24	Manganese	(mg/L)	Quarterly	1	2/07/2024	4.7	4.7	4.7				
Jul-24	Nickel	(mg/L)	Quarterly	1	2/07/2024	0.030	0.030	0.030				
Jul-24	pH	pH	Quarterly	1	2/07/2024	5.85	5.85	5.85				
Jul-24	Potassium	(mg/L)	Quarterly	1	2/07/2024	110	110	110				
Jul-24	Selenium	(mg/L)	Quarterly	1	2/07/2024	<0.001	<0.001	<0.001				
Jul-24	Sodium	(mg/L)	Quarterly	1	2/07/2024	6100	6100	6100				
Jul-24	Standing Water Level	(m)	Quarterly	1	2/07/2024	3.80	3.80	3.80				
Jul-24	Vanadium	(mg/L)	Quarterly	1	2/07/2024	0.005	0.005	0.005				
Jul-24	Zinc	(mg/L)	Quarterly	1	2/07/2024	0.100	0.100	0.100				

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
Jul-24	Aluminium	(mg/L)	Quarterly	1	2/07/2024	3.00	3.00	3.00				
Jul-24	Ammonia	(mg/L)	Quarterly	1	2/07/2024	0.02	0.02	0.02				
Jul-24	Arsenic (III)	(mg/L)	Quarterly	1	2/07/2024	<0.001	<0.001	<0.001				
Jul-24	Arsenic (V)	(mg/L)	Quarterly	1	2/07/2024	<0.001	<0.001	<0.001				
Jul-24	Cadmium	(mg/L)	Quarterly	1	2/07/2024	<0.0001	<0.0001	<0.0001				
Jul-24	Chromium (trivalent)	(mg/L)	Quarterly	1	2/07/2024	<0.005	<0.005	<0.005				
Jul-24	Chromium (VI) Compounds	(mg/L)	Quarterly	1	2/07/2024	<0.005	<0.005	<0.005				
Jul-24	Copper	(mg/L)	Quarterly	1	2/07/2024	0.016	0.016	0.016				
Jul-24	Electrical Conductivity	(us/cm)	Quarterly	1	2/07/2024	1084	1084	1084				
Jul-24	Iron	(mg/L)	Quarterly	1	2/07/2024	7	7	7				
Jul-24	Lead	(mg/L)	Quarterly	1	2/07/2024	0.010	0.010	0.010				Next sample scheduled for October 2024
Jul-24	Magnesium	(mg/L)	Quarterly	1	2/07/2024	14	14	14				
Jul-24	Manganese	(mg/L)	Quarterly	1	2/07/2024	0.1	0.1	0.1				
Jul-24	Nickel	(mg/L)	Quarterly	1	2/07/2024	0.004	0.004	0.004				
Jul-24	pH	pH	Quarterly	1	2/07/2024	6.81	6.81	6.81				
Jul-24	Potassium	(mg/L)	Quarterly	1	2/07/2024	2.0	2.0	2.0				
Jul-24	Selenium	(mg/L)	Quarterly	1	2/07/2024	<0.001	<0.001	<0.001				
Jul-24	Sodium	(mg/L)	Quarterly	1	2/07/2024	83	83	83				
Jul-24	Standing Water Level	(m)	Quarterly	1	2/07/2024	1.10	1.10	1.10				
Jul-24	Vanadium	(mg/L)	Quarterly	1	2/07/2024	0.006	0.006	0.006				
Jul-24	Zinc	(mg/L)	Quarterly	1	2/07/2024	0.29	0.29	0.29				

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
Jul-24	Aluminium	(mg/L)	Quarterly	1	2/07/2024	1.40	1.40	1.40				
Jul-24	Ammonia	(mg/L)	Quarterly	1	2/07/2024	0.01	0.01	0.01				
Jul-24	Arsenic (III)	(mg/L)	Quarterly	1	2/07/2024	<0.001	<0.001	<0.001				
Jul-24	Arsenic (V)	(mg/L)	Quarterly	1	2/07/2024	<0.001	<0.001	<0.001				
Jul-24	Cadmium	(mg/L)	Quarterly	1	2/07/2024	<0.0001	<0.0001	<0.0001				
Jul-24	Chromium (trivalent)	(mg/L)	Quarterly	1	2/07/2024	<0.005	<0.005	<0.005				
Jul-24	Chromium (VI) Compounds	(mg/L)	Quarterly	1	2/07/2024	<0.005	<0.005	<0.005				
Jul-24	Copper	(mg/L)	Quarterly	1	2/07/2024	0.007	0.007	0.007				
Jul-24	Electrical Conductivity	(us/cm)	Quarterly	1	2/07/2024	292	292	292				
Jul-24	Iron	(mg/L)	Quarterly	1	2/07/2024	8	8	8				
Jul-24	Lead	(mg/L)	Quarterly	1	2/07/2024	0.002	0.002	0.002				Next sample scheduled for October 2024
Jul-24	Magnesium	(mg/L)	Quarterly	1	2/07/2024	7	7	7				
Jul-24	Manganese	(mg/L)	Quarterly	1	2/07/2024	0.045	0.045	0.045				
Jul-24	Nickel	(mg/L)	Quarterly	1	2/07/2024	0.009	0.009	0.009				
Jul-24	pH	pH	Quarterly	1	2/07/2024	5.83	5.83	5.83				
Jul-24	Potassium	(mg/L)	Quarterly	1	2/07/2024	2.0	2.0	2.0				
Jul-24	Selenium	(mg/L)	Quarterly	1	2/07/2024	<0.001	<0.001	<0.001				
Jul-24	Sodium	(mg/L)	Quarterly	1	2/07/2024	41	41	41				
Jul-24	Standing Water Level	(m)	Quarterly	1	2/07/2024	3.16	3.16	3.16				
Jul-24	Vanadium	(mg/L)	Quarterly	1	2/07/2024	0.003	0.003	0.003				
Jul-24	Zinc	(mg/L)	Quarterly	1	2/07/2024	0.039	0.039	0.039				

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).

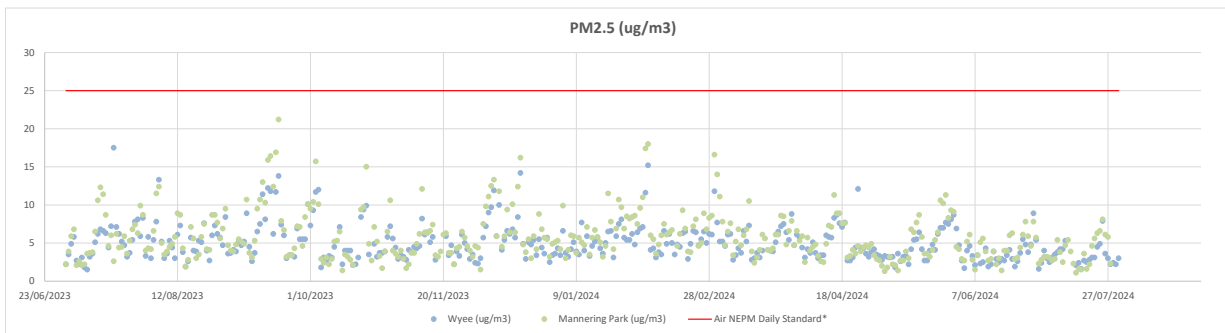
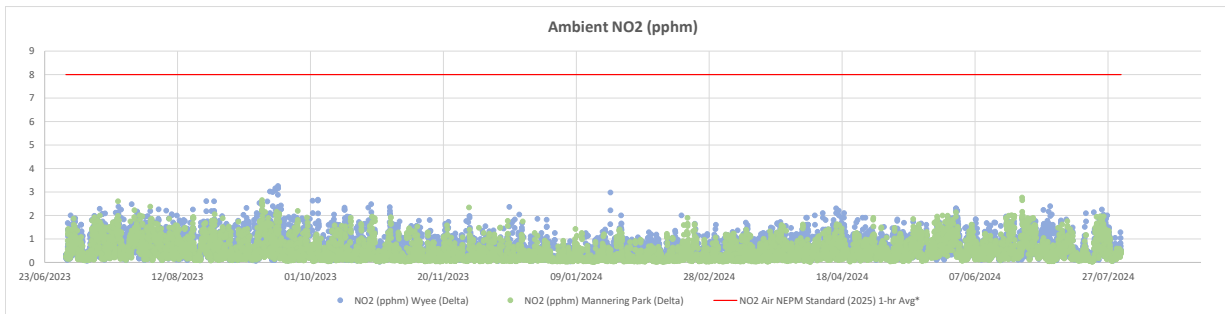
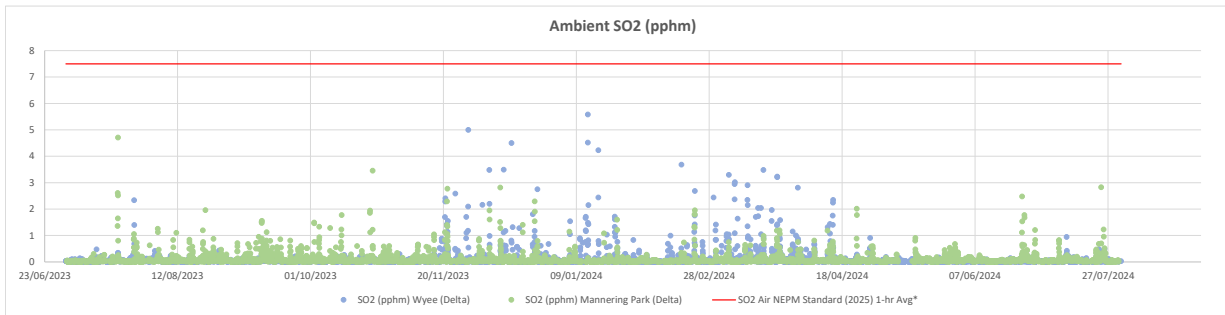
Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Samples Collected & Analysed	Date Sampled	Lowest Sample Value	Mean of Samples	Highest Sample Value	99 Percentile Concentration Limit	100 Percentile Concentration Limit	Exceedance (yes/no)	Comments
Jul-24	Aluminium	(mg/L)	Quarterly	1	2/07/2024	1.8	1.8	1.8				
Jul-24	Ammonia	(mg/L)	Quarterly	1	2/07/2024	0.30	0.30	0.30				
Jul-24	Arsenic (III)	(mg/L)	Quarterly	1	2/07/2024	<0.001	<0.001	<0.001				
Jul-24	Arsenic (V)	(mg/L)	Quarterly	1	2/07/2024	<0.001	<0.001	<0.001				
Jul-24	Cadmium	(mg/L)	Quarterly	1	2/07/2024	<0.0001	<0.0001	<0.0001				
Jul-24	Chromium (trivalent)	(mg/L)	Quarterly	1	2/07/2024	<0.005	<0.005	<0.005				
Jul-24	Chromium (VI) Compounds	(mg/L)	Quarterly	1	2/07/2024	<0.005	<0.005	<0.005				
Jul-24	Copper	(mg/L)	Quarterly	1	2/07/2024	0.006	0.006	0.006				
Jul-24	Electrical Conductivity	(us/cm)	Quarterly	1	2/07/2024	38719	38719	38719				
Jul-24	Iron	(mg/L)	Quarterly	1	2/07/2024	50	50	50				
Jul-24	Lead	(mg/L)	Quarterly	1	2/07/2024	0.003	0.003	0.003				Next sample scheduled for October 2024
Jul-24	Magnesium	(mg/L)	Quarterly	1	2/07/2024	1100	1100	1100				
Jul-24	Manganese	(mg/L)	Quarterly	1	2/07/2024	0.40	0.40	0.40				
Jul-24	Nickel	(mg/L)	Quarterly	1	2/07/2024	0.005	0.005	0.005				
Jul-24	pH	pH	Quarterly	1	2/07/2024	6.76	6.76	6.76				
Jul-24	Potassium	(mg/L)	Quarterly	1	2/07/2024	300	300	300				
Jul-24	Selenium	(mg/L)	Quarterly	1	2/07/2024	<0.001	<0.001	<0.001				
Jul-24	Sodium	(mg/L)	Quarterly	1	2/07/2024	8000	8000	8000				
Jul-24	Standing Water Level	(m)	Quarterly	1	2/07/2024	0.44	0.44	0.44				
Jul-24	Vanadium	(mg/L)	Quarterly	1	2/07/2024	0.010	0.010	0.010				
Jul-24	Zinc	(mg/L)	Quarterly	1	2/07/2024	0.110	0.110	0.110				

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
Jul-24	Aluminium	(mg/L)	Quarterly	1	2/07/2024	3.0	3.0	3.0				
Jul-24	Ammonia	(mg/L)	Quarterly	1	2/07/2024	0.041	0.041	0.041				
Jul-24	Arsenic (III)	(mg/L)	Quarterly	1	2/07/2024	<0.001	<0.001	<0.001				
Jul-24	Arsenic (V)	(mg/L)	Quarterly	1	2/07/2024	<0.001	<0.001	<0.001				
Jul-24	Cadmium	(mg/L)	Quarterly	1	2/07/2024	<0.0001	<0.0001	<0.0001				
Jul-24	Chromium (trivalent)	(mg/L)	Quarterly	1	2/07/2024	<0.005	<0.005	<0.005				
Jul-24	Chromium (VI) Compounds	(mg/L)	Quarterly	1	2/07/2024	<0.005	<0.005	<0.005				
Jul-24	Copper	(mg/L)	Quarterly	1	2/07/2024	0.014	0.014	0.014				
Jul-24	Electrical Conductivity	(us/cm)	Quarterly	1	2/07/2024	614	614	614				
Jul-24	Iron	(mg/L)	Quarterly	1	2/07/2024	11.0	11.0	11.0				Next sample scheduled for October 2024
Jul-24	Lead	(mg/L)	Quarterly	1	2/07/2024	0.006	0.006	0.006				
Jul-24	Magnesium	(mg/L)	Quarterly	1	2/07/2024	9.2	9.2	9.2				
Jul-24	Manganese	(mg/L)	Quarterly	1	2/07/2024	0.077	0.077	0.077				
Jul-24	Nickel	(mg/L)	Quarterly	1	2/07/2024	0.009	0.009	0.009				
Jul-24	pH	pH	Quarterly	1	2/07/2024	5.42	5.42	5.42				
Jul-24	Potassium	(mg/L)	Quarterly	1	2/07/2024	3	3	3				
Jul-24	Selenium	(mg/L)	Quarterly	1	2/07/2024	<0.001	<0.001	<0.001				
Jul-24	Sodium	(mg/L)	Quarterly	1	2/07/2024	97	97	97				
Jul-24	Standing Water Level	(m)	Quarterly	1	2/07/2024	0.27	0.27	0.27				
Jul-24	Vanadium	(mg/L)	Quarterly	1	2/07/2024	0.03	0.03	0.03				
Jul-24	Zinc	(mg/L)	Quarterly	1	2/07/2024	0.17	0.17	0.17				

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>>