

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 2025	
ADDRESS	VALES ROAD, MANNERING PARK NSW	

Compliance Summary

Were all licence monitoring limits met this month?

Yes

Details of any licence monitoring limit not complied with this month if applicable:

EPL Point	Air/Water/Noise/Other	Pollutant	Value Measured	Licence Limit	Comments

Monitoring Locations

The location of Environment Protection Licence monitoring points within the Vales Point Power Station premises can be found at <https://www.de.com.au/environment/environmental-licences-and-monitoring> . Click the heading "Vales Point Licence Points" to open the pdf document.

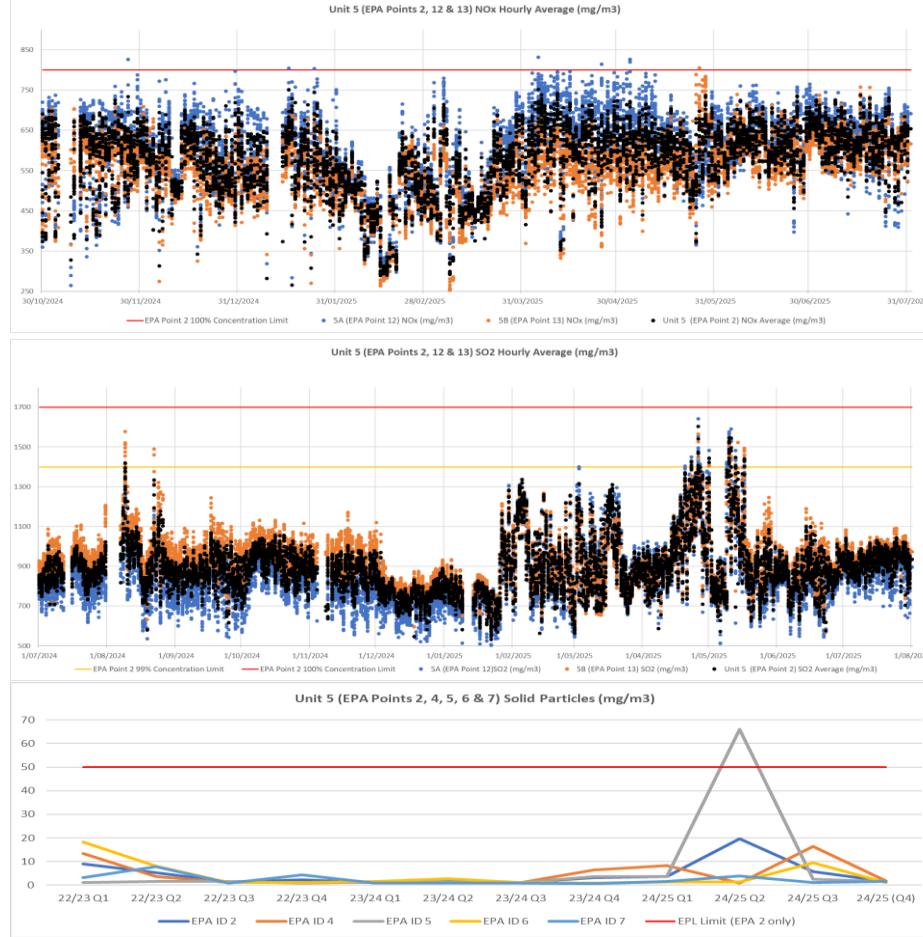
Comments

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-25	Cadmium	(mg/m3)	Every 6 months							0.03	No	
Jul-25	Chlorine	(mg/m3)	Every 6 months							4	No	
Jul-25	Fluorine	(mg/m3)	Every 6 months							30	No	



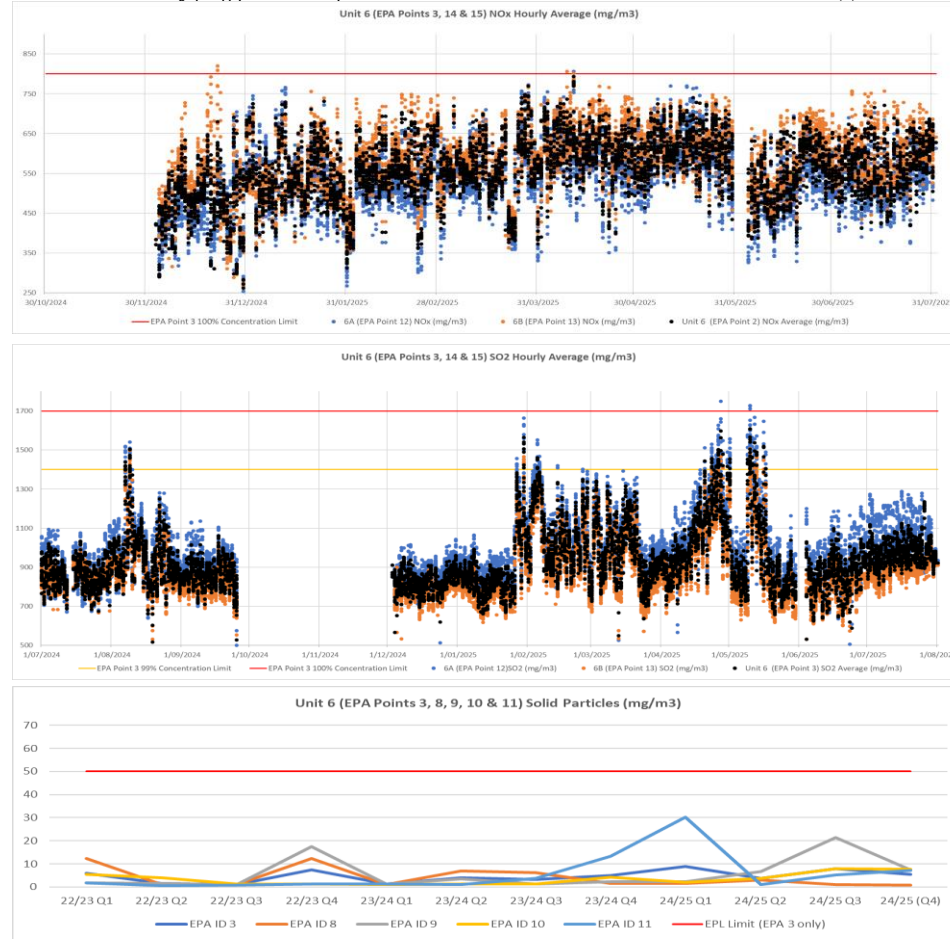
Jul-25	Hydrogen chloride	(mg/m3)	Every 6 months							50	No	
Jul-25	Mercury	(mg/m3)	Every 6 months							0.03	No	
Jul-25	Nitrogen Oxides	(mg/m3)	Continuous	99.1%	Jul-25	445	623	738		800	No	
Jul-25	Solid Particles	(mg/m3)	Quarterly							50	No	
Jul-25	Sulfur dioxide	(mg/m3)	Continuous	99.1%	Jul-25	703	925	1043	1400	1700	No	
Jul-25	Sulfuric acid mist and sulfur trioxide (as SO3)	(mg/m3)	Every 6 months							100	No	
Jul-25	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months							0.6	No	
Jul-25	VOC's as n-propane equivalent	(mg/m3)	Every 6 months							8	No	

The 100% Concentration limits in the below graphs apply to EPA Point 2 only. EPA Point 2 is the combined emissions from EPA Points 12 & 13 for NOx and SO2 and EPA Points 4, 5, 6 & 7 for Particulates.



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/Masurement 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-25	Cadmium	(mg/m3)	Every 6 months							0.03	No	
Jul-25	Chlorine	(mg/m3)	Every 6 months							4	No	
Jul-25	Fluorine	(mg/m3)	Every 6 months							30	No	
Jul-25	Hydrogen chloride	(mg/m3)	Every 6 months							50	No	
Jul-25	Mercury	(mg/m3)	Every 6 months							0.03	No	
Jul-25	Nitrogen Oxides	(mg/m3)	Continuous	97.8%	Jul-25	412	567	721		800	No	
Jul-25	Solid Particles	(mg/m3)	Quarterly							50	No	
Jul-25	Sulfur dioxide	(mg/m3)	Continuous	97.8%	Jul-25	810	974	1125	1400	1700	No	
Jul-25	Sulfuric acid mist and sulfur trioxide (as SO3)	(mg/m3)	Every 6 months							100	No	
Jul-25	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months							0.6	No	
Jul-25	VOC's as n-propane equivalent	(mg/m3)	Every 6 months							8	No	

The 100% Concentration limits in the below graphs apply to EPA Point 3 only. EPA Point 3 is the combined Emissions from EPA Points 14 & 15 for NOx and SO2 and EPA Points 8, 9, 10 & 11 for Particulates.



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-25	Cadmium	(mg/m3)	Every 6 months								N/A	
Jul-25	Carbon dioxide	(%)	Every 6 months								N/A	
Jul-25	Chlorine	(mg/m3)	Every 6 months								N/A	
Jul-25	Fluorine	(mg/m3)	Every 6 months								N/A	
Jul-25	Hydrogen chloride	(mg/m3)	Every 6 months								N/A	
Jul-25	Mercury	(mg/m3)	Every 6 months								N/A	
Jul-25	Solid Particles	(mg/m3)	Quarterly								N/A	
Jul-25	Sulfuric acid mist and sulfur trioxide (as SO3)	(mg/m3)	Every 6 months								N/A	
Jul-25	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months								N/A	
Jul-25	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-25	Cadmium	(mg/m3)	Every 6 months								N/A	
Jul-25	Mercury	(mg/m3)	Every 6 months								N/A	
Jul-25	Solid Particles	(mg/m3)	Quarterly								N/A	
Jul-25	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-25	Cadmium	(mg/m3)	Every 6 months								N/A	
Jul-25	Carbon dioxide	(%)	Every 6 months								N/A	
Jul-25	Chlorine	(mg/m3)	Every 6 months								N/A	
Jul-25	Fluorine	(mg/m3)	Every 6 months								N/A	
Jul-25	Hydrogen chloride	(mg/m3)	Every 6 months								N/A	
Jul-25	Mercury	(mg/m3)	Every 6 months								N/A	
Jul-25	Solid Particles	(mg/m3)	Quarterly								N/A	
Jul-25	Sulfuric acid mist and sulfur trioxide (as SO3)	(mg/m3)	Every 6 months								N/A	
Jul-25	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months								N/A	
Jul-25	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-25	Cadmium	(mg/m3)	Every 6 months								N/A	
Jul-25	Mercury	(mg/m3)	Every 6 months								N/A	
Jul-25	Solid Particles	(mg/m3)	Quarterly								N/A	
Jul-25	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-25	Cadmium	(mg/m3)	Every 6 months								N/A	
Jul-25	Carbon dioxide	(%)	Every 6 months								N/A	
Jul-25	Chlorine	(mg/m3)	Every 6 months								N/A	
Jul-25	Fluorine	(mg/m3)	Every 6 months								N/A	
Jul-25	Hydrogen chloride	(mg/m3)	Every 6 months								N/A	
Jul-25	Mercury	(mg/m3)	Every 6 months								N/A	
Jul-25	Solid Particles	(mg/m3)	Quarterly								N/A	
Jul-25	Sulfuric acid mist and sulfur trioxide (as SO3)	(mg/m3)	Every 6 months								N/A	
Jul-25	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months								N/A	
Jul-25	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-25	Cadmium	(mg/m3)	Every 6 months								N/A	
Jul-25	Mercury	(mg/m3)	Every 6 months								N/A	
Jul-25	Solid Particles	(mg/m3)	Quarterly								N/A	
Jul-25	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/M 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-25	Cadmium	(mg/m3)	Every 6 months								N/A	
Jul-25	Carbon dioxide	(%)	Every 6 months								N/A	
Jul-25	Chlorine	(mg/m3)	Every 6 months								N/A	
Jul-25	Fluorine	(mg/m3)	Every 6 months								N/A	
Jul-25	Hydrogen chloride	(mg/m3)	Every 6 months								N/A	
Jul-25	Mercury	(mg/m3)	Every 6 months								N/A	
Jul-25	Solid Particles	(mg/m3)	Quarterly								N/A	
Jul-25	Sulfuric acid mist and sulfur trioxide (as SO3)	(mg/m3)	Every 6 months								N/A	
Jul-25	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months								N/A	
Jul-25	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/M 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-25	Cadmium	(mg/m3)	Every 6 months								N/A	
Jul-25	Mercury	(mg/m3)	Every 6 months								N/A	
Jul-25	Solid Particles	(mg/m3)	Quarterly								N/A	
Jul-25	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/M 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-25	Nitrogen Oxides	(mg/m3)	Continuous	99.1%	Jul-25	409	635	755			N/A	
Jul-25	Sulfur dioxide	(mg/m3)	Continuous	99.1%	Jul-25	642	883	1020			N/A	
POINT 13 Boiler number 5 combined exhaust - duct C and D (points 6 and 7) marked and shownas 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/M 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-25	Nitrogen Oxides	(mg/m3)	Continuous	99.1%	Jul-25	473	611	757			N/A	
Jul-25	Sulfur dioxide	(mg/m3)	Continuous	99.1%	Jul-25	737	967	1091			N/A	
POINT 14 Boiler number 6 combined exhaust - duct A and B (points 8 and 9) marked and shownas 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/M 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-25	Nitrogen Oxides	(mg/m3)	Continuous	98.7%	Jul-25	375	537	703			N/A	
Jul-25	Sulfur dioxide	(mg/m3)	Continuous	98.7%	Jul-25	870	1063	1288			N/A	
POINT 15 Boiler number 6 combined exhaust - duct C and D (points 10 and 11) marked and shownas 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/M 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-25	Nitrogen Oxides	(mg/m3)	Continuous	97.0%	Jul-25	434	598	757			N/A	
Jul-25	Sulfur dioxide	(mg/m3)	Continuous	97.0%	Jul-25	745	885	1006			N/A	

POINT 22 Discharge of cooling water from the cooling water outlet canal to Wyee 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-25	Chlorine (free residual)	(mg/L)	Monthly during discharge	1	8/07/2025	0	0	0		0.2	No	
Jul-25	Copper	(mg/L)	Monthly during discharge	1	8/07/2025	0.002	0.002	0.002		0.005	No	
Jul-25	Iron	(mg/L)	Monthly during discharge	1	8/07/2025	0.09	0.09	0.09		0.3	No	
Jul-25	Oil and Grease	Visible	Continuous during discharge	100%	Jul-25	NIL	NIL	NIL				
Jul-25	Selenium	(mg/L)	Monthly during discharge	1	8/07/2025	0.001	0.001	0.001		0.005	No	
Jul-25	Temperature	(°C)	Continuous during discharge	100%	Jul-25	18.6	23.6	28.4	35	37.5	No	

POINT 23 Discharge of supernatant water from the ash dam to the cooling water outlet canal to Wyee 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-25	Aluminium	(mg/L)	Monthly during discharge	1	8/07/2025	0.03	0.03	0.03				
Jul-25	Ammonia	(mg/L)	Monthly during discharge	1	8/07/2025	0.120	0.120	0.120				
Jul-25	Arsenic (III)	(mg/L)	Monthly during discharge	1	8/07/2025	<0.001	<0.001	<0.001				
Jul-25	Arsenic (V)	(mg/L)	Monthly during discharge	1	8/07/2025	0.005	0.005	0.005				
Jul-25	Cadmium	(mg/L)	Monthly during discharge	1	8/07/2025	<0.0002	<0.0002	<0.0002				
Jul-25	Chromium (trivalent)	(mg/L)	Monthly during discharge	1	8/07/2025	<0.005	<0.005	<0.005				
Jul-25	Chromium (VI) Compounds	(mg/L)	Monthly during discharge	1	8/07/2025	0.06	0.06	0.06				
Jul-25	Copper	(mg/L)	Monthly during discharge	1	8/07/2025	<0.002	<0.002	<0.002				
Jul-25	Iron	(mg/L)	Monthly during discharge	1	8/07/2025	0.05	0.05	0.05				
Jul-25	Lead	(mg/L)	Monthly during discharge	1	8/07/2025	<0.002	<0.002	<0.002				
Jul-25	Manganese	(mg/L)	Monthly during discharge	1	8/07/2025	<0.01	<0.01	<0.01				
Jul-25	Nickel	(mg/L)	Monthly during discharge	1	8/07/2025	<0.002	<0.002	<0.002				
Jul-25	Nitrate + nitrite (oxidised nitrogen)	(mg/L)	Monthly during discharge	1	8/07/2025	0.15	0.15	0.15				
Jul-25	Nitrogen	(mg/L)	Monthly during discharge	1	8/07/2025	0.4	0.4	0.4				
Jul-25	pH	pH	Monthly during discharge	1	8/07/2025	9.49	9.49	9.49		6.5 - 9.5	No	
Jul-25	Phosphorus	(mg/L)	Monthly during discharge	1	8/07/2025	0.06	0.06	0.06				
Jul-25	Reactive Phosphorus	(mg/L)	Monthly during discharge	1	8/07/2025	0.02	0.02	0.02				
Jul-25	Selenium	(mg/L)	Monthly during discharge	1	8/07/2025	0.074	0.074	0.074				
Jul-25	Total Kjeldahl Nitrogen	(mg/L)	Monthly during discharge	1	8/07/2025	0.3	0.3	0.3				
Jul-25	Total Suspended Solids	(mg/L)	Monthly during discharge	1	8/07/2025	5	5	5		50	No	
Jul-25	Vanadium	(mg/L)	Monthly during discharge	1	8/07/2025	0.096	0.096	0.096				
Jul-25	Zinc	(mg/L)	Monthly during discharge	1	8/07/2025	0.004	0.004	0.004				

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-25	Aluminium	(mg/L)	Monthly during discharge	1	8/07/2025	0.07	0.07	0.07	Yes			
Jul-25	Ammonia	(mg/L)	Monthly during discharge	1	8/07/2025	1.50	1.50	1.50	Yes			
Jul-25	Arsenic (III)	(mg/L)	Monthly during discharge	1	8/07/2025	<0.001	<0.001	<0.001	Yes			
Jul-25	Arsenic (V)	(mg/L)	Monthly during discharge	1	8/07/2025	<0.001	<0.001	<0.001	Yes			
Jul-25	Cadmium	(mg/L)	Monthly during discharge	1	8/07/2025	<0.0002	<0.0002	<0.0002	Yes			
Jul-25	Chromium (trivalent)	(mg/L)	Monthly during discharge	1	8/07/2025	<0.005	<0.005	<0.005	Yes			
Jul-25	Chromium (VI) Compounds	(mg/L)	Monthly during discharge	1	8/07/2025	<0.005	<0.005	<0.005	Yes			
Jul-25	Copper	(mg/L)	Monthly during discharge	1	8/07/2025	<0.002	<0.002	<0.002	Yes			
Jul-25	Iron	(mg/L)	Monthly during discharge	1	8/07/2025	0.96	0.96	0.96	Yes			
Jul-25	Lead	(mg/L)	Monthly during discharge	1	8/07/2025	<0.002	<0.002	<0.002	Yes			
Jul-25	Manganese	(mg/L)	Monthly during discharge	1	8/07/2025	0.096	0.096	0.096	Yes			
Jul-25	Nickel	(mg/L)	Monthly during discharge	1	8/07/2025	<0.002	<0.002	<0.002	Yes			
Jul-25	Nitrate + nitrite (oxidised nitrogen)	(mg/L)	Monthly during discharge	1	8/07/2025	0.81	0.81	0.81	Yes			
Jul-25	Nitrogen	(mg/L)	Monthly during discharge	1	8/07/2025	2.60	2.60	2.60	Yes			
Jul-25	pH	pH	Monthly during discharge	1	8/07/2025	8.20	8.20	8.20	Yes	6.5 - 9.5	No	
Jul-25	Phosphorus	(mg/L)	Monthly during discharge	1	8/07/2025	<0.05	<0.05	<0.05	Yes			
Jul-25	Reactive Phosphorus	(mg/L)	Monthly during discharge	1	8/07/2025	<0.005	<0.005	<0.005	Yes			
Jul-25	Selenium	(mg/L)	Monthly during discharge	1	8/07/2025	<0.002	<0.002	<0.002	Yes			
Jul-25	Total Kjeldahl Nitrogen	(mg/L)	Monthly during discharge	1	8/07/2025	1.80	1.80	1.80	Yes			
Jul-25	Total Suspended Solids	(mg/L)	Monthly during discharge	1	8/07/2025	5	5	5	Yes	50	No	
Jul-25	Vanadium	(mg/L)	Monthly during discharge	1	8/07/2025	0.01	0.01	0.01	Yes			
Jul-25	Zinc	(mg/L)	Monthly during discharge	1	8/07/2025	<0.002	<0.002	<0.002	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
Jul-25	Aluminium	(mg/L)	Daily for any discharge >2 hrs						No			
Jul-25	Ammonia	(mg/L)	Daily for any discharge >2 hrs						No			
Jul-25	Arsenic (III)	(mg/L)	Daily for any discharge >2 hrs						No			
Jul-25	Arsenic (V)	(mg/L)	Daily for any discharge >2 hrs						No			
Jul-25	Cadmium	(mg/L)	Daily for any discharge >2 hrs						No			
Jul-25	Chromium (trivalent)	(mg/L)	Daily for any discharge >2 hrs						No			
Jul-25	Chromium (VI) Compounds	(mg/L)	Daily for any discharge >2 hrs						No			
Jul-25	Copper	(mg/L)	Daily for any discharge >2 hrs						No			
Jul-25	Iron	(mg/L)	Daily for any discharge >2 hrs						No			
Jul-25	Lead	(mg/L)	Daily for any discharge >2 hrs						No			
Jul-25	Manganese	(mg/L)	Daily for any discharge >2 hrs						No			
Jul-25	Nickel	(mg/L)	Daily for any discharge >2 hrs						No			
Jul-25	Nitrate + nitrite (oxidised nitrogen)	(mg/L)	Daily for any discharge >2 hrs						No			
Jul-25	Nitrogen	(mg/L)	Daily for any discharge >2 hrs						No			
Jul-25	pH	pH	Daily for any discharge >2 hrs						No	6.5 - 9		
Jul-25	Phosphorus	(mg/L)	Daily for any discharge >2 hrs						No			
Jul-25	Reactive Phosphorus	(mg/L)	Daily for any discharge >2 hrs						No			
Jul-25	Selenium	(mg/L)	Daily for any discharge >2 hrs						No			
Jul-25	Total Kjeldahl Nitrogen	(mg/L)	Daily for any discharge >2 hrs						No			
Jul-25	Total Suspended Solids	(mg/L)	Daily for any discharge >2 hrs						No	50		
Jul-25	Vanadium	(mg/L)	Daily for any discharge >2 hrs						No			
Jul-25	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-25	Aluminium	(mg/L)	Quarterly	1	8/07/2025	0.05	0.05	0.05				
Jul-25	Ammonia	(mg/L)	Quarterly	1	8/07/2025	4.3	4.3	4.3				
Jul-25	Arsenic (III)	(mg/L)	Quarterly	1	8/07/2025	0.002	0.002	0.002				
Jul-25	Arsenic (V)	(mg/L)	Quarterly	1	8/07/2025	0.007	0.007	0.007				
Jul-25	Cadmium	(mg/L)	Quarterly	1	8/07/2025	<0.0001	<0.0001	<0.0001				
Jul-25	Chromium (trivalent)	(mg/L)	Quarterly	1	8/07/2025	<0.005	<0.005	<0.005				
Jul-25	Chromium (VI) Compounds	(mg/L)	Quarterly	1	8/07/2025	<0.005	<0.005	<0.005				
Jul-25	Copper	(mg/L)	Quarterly	1	8/07/2025	0.046	0.046	0.046				
Jul-25	Electrical Conductivity	(us/cm)	Quarterly	1	8/07/2025	15024	15024	15024				
Jul-25	Iron	(mg/L)	Quarterly	1	8/07/2025	65.0	65.0	65.0				
Jul-25	Lead	(mg/L)	Quarterly	1	8/07/2025	<0.001	<0.001	<0.001				Next round of quarterly groundwater sampling scheduled for October 2025
Jul-25	Magnesium	(mg/L)	Quarterly	1	8/07/2025	800	800	800				
Jul-25	Manganese	(mg/L)	Quarterly	1	8/07/2025	4.3	4.3	4.3				
Jul-25	Nickel	(mg/L)	Quarterly	1	8/07/2025	0.029	0.029	0.029				
Jul-25	pH	pH	Quarterly	1	8/07/2025	6.03	6.03	6.03				
Jul-25	Potassium	(mg/L)	Quarterly	1	8/07/2025	97	97	97				
Jul-25	Selenium	(mg/L)	Quarterly	1	8/07/2025	<0.001	<0.001	<0.001				
Jul-25	Sodium	(mg/L)	Quarterly	1	8/07/2025	5800	5800	5800				
Jul-25	Standing Water Level	(m)	Quarterly	1	8/07/2025	3.81	3.81	3.81				
Jul-25	Vanadium	(mg/L)	Quarterly	1	8/07/2025	<0.001	<0.001	<0.001				
Jul-25	Zinc	(mg/L)	Quarterly	1	8/07/2025	0.007	0.007	0.007				

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-25	Aluminium	(mg/L)	Quarterly	1	8/07/2025	1.50	1.50	1.50				
Jul-25	Ammonia	(mg/L)	Quarterly	1	8/07/2025	0.08	0.08	0.08				
Jul-25	Arsenic (III)	(mg/L)	Quarterly	1	8/07/2025	<0.002	<0.002	<0.002				
Jul-25	Arsenic (V)	(mg/L)	Quarterly	1	8/07/2025	<0.002	<0.002	<0.002				
Jul-25	Cadmium	(mg/L)	Quarterly	1	8/07/2025	<0.0001	<0.0001	<0.0001				
Jul-25	Chromium (trivalent)	(mg/L)	Quarterly	1	8/07/2025	<0.005	<0.005	<0.005				
Jul-25	Chromium (VI) Compounds	(mg/L)	Quarterly	1	8/07/2025	<0.005	<0.005	<0.005				
Jul-25	Copper	(mg/L)	Quarterly	1	8/07/2025	0.017	0.017	0.017				
Jul-25	Electrical Conductivity	(us/cm)	Quarterly	1	8/07/2025	1253	1253	1253				
Jul-25	Iron	(mg/L)	Quarterly	1	8/07/2025	18	18	18				
Jul-25	Lead	(mg/L)	Quarterly	1	8/07/2025	0.008	0.008	0.008				Next round of quarterly groundwater sampling scheduled for October 2025
Jul-25	Magnesium	(mg/L)	Quarterly	1	8/07/2025	41	41	41				
Jul-25	Manganese	(mg/L)	Quarterly	1	8/07/2025	0.3	0.3	0.3				
Jul-25	Nickel	(mg/L)	Quarterly	1	8/07/2025	0.010	0.010	0.010				
Jul-25	pH	pH	Quarterly	1	8/07/2025	6.49	6.49	6.49				
Jul-25	Potassium	(mg/L)	Quarterly	1	8/07/2025	4.0	4.0	4.0				
Jul-25	Selenium	(mg/L)	Quarterly	1	8/07/2025	0.002	0.002	0.002				
Jul-25	Sodium	(mg/L)	Quarterly	1	8/07/2025	300	300	300				
Jul-25	Standing Water Level	(m)	Quarterly	1	8/07/2025	1.47	1.47	1.47				
Jul-25	Vanadium	(mg/L)	Quarterly	1	8/07/2025	0.005	0.005	0.005				
Jul-25	Zinc	(mg/L)	Quarterly	1	8/07/2025	0.28	0.28	0.28				

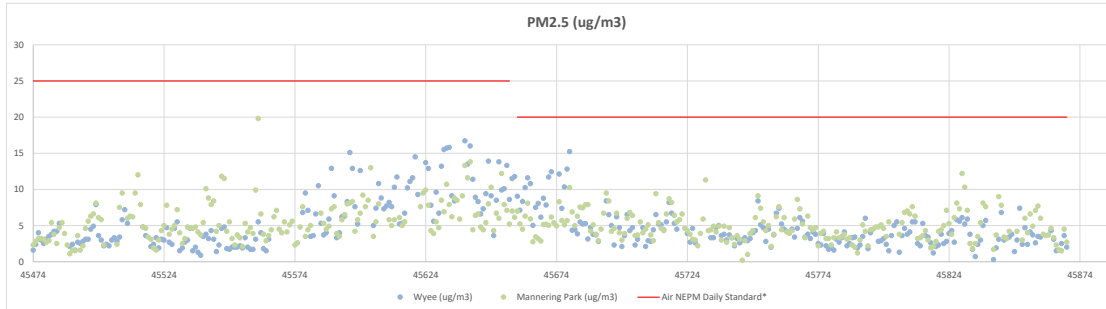
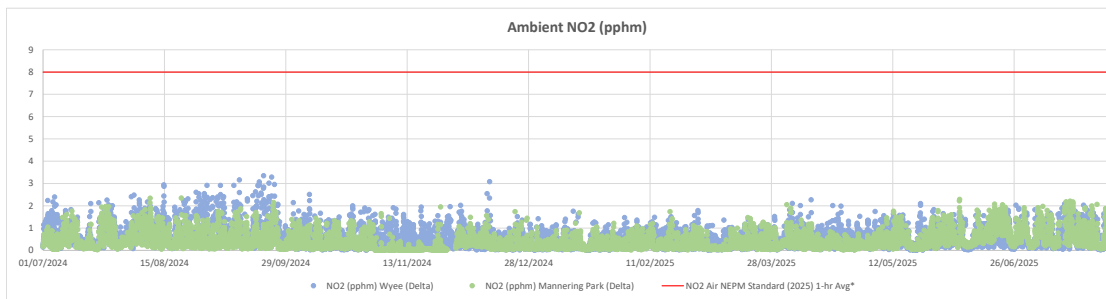
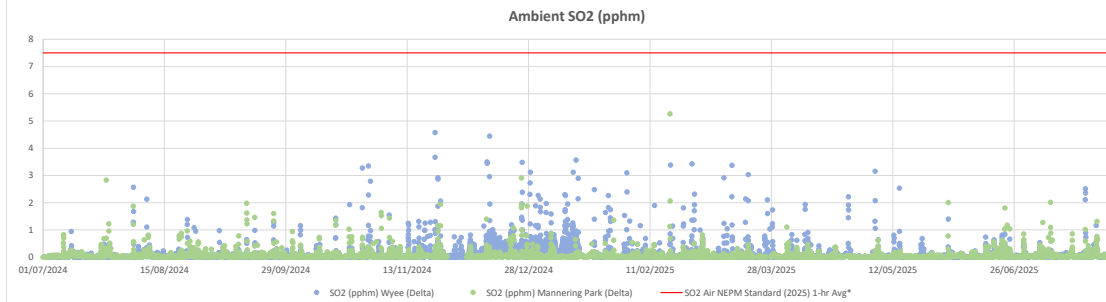
POINT 32 Groundwater quality monitoring bore marked and shown as EPA ID 32 on The Plans ("VX837351-1 AND "VX837351-2" 03/06/2020 EPA REFERENCE DOC20/476695 AND DOC20/476695-1).												
Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Samples Collected & Analysed	Date Sampled	Lowest Sample Value	Mean of Samples	Highest Sample Value	99 Percentile Concentration Limit	100 Percentile Concentration Limit	Exceedance (yes/no)	Comments
Jul-25	Aluminium	(mg/L)	Quarterly	1	8/07/2025	1.20	1.20	1.20				
Jul-25	Ammonia	(mg/L)	Quarterly	1	8/07/2025	0.01	0.01	0.01				
Jul-25	Arsenic (III)	(mg/L)	Quarterly	1	8/07/2025	<0.001	<0.001	<0.001				
Jul-25	Arsenic (V)	(mg/L)	Quarterly	1	8/07/2025	<0.001	<0.001	<0.001				
Jul-25	Cadmium	(mg/L)	Quarterly	1	8/07/2025	<0.0001	<0.0001	<0.0001				
Jul-25	Chromium (trivalent)	(mg/L)	Quarterly	1	8/07/2025	<0.005	<0.005	<0.005				
Jul-25	Chromium (VI) Compounds	(mg/L)	Quarterly	1	8/07/2025	<0.005	<0.005	<0.005				
Jul-25	Copper	(mg/L)	Quarterly	1	8/07/2025	0.002	0.002	0.002				
Jul-25	Electrical Conductivity	(us/cm)	Quarterly	1	8/07/2025	193	193	193				
Jul-25	Iron	(mg/L)	Quarterly	1	8/07/2025	2	2	2				
Jul-25	Lead	(mg/L)	Quarterly	1	8/07/2025	0.001	0.001	0.001				Next round of quarterly groundwater sampling scheduled for October 2025
Jul-25	Magnesium	(mg/L)	Quarterly	1	8/07/2025	3	3	3				
Jul-25	Manganese	(mg/L)	Quarterly	1	8/07/2025	0.011	0.011	0.011				
Jul-25	Nickel	(mg/L)	Quarterly	1	8/07/2025	0.001	0.001	0.001				
Jul-25	pH	pH	Quarterly	1	8/07/2025	6.41	6.41	6.41				
Jul-25	Potassium	(mg/L)	Quarterly	1	8/07/2025	1.0	1.0	1.0				
Jul-25	Selenium	(mg/L)	Quarterly	1	8/07/2025	<0.001	<0.001	<0.001				
Jul-25	Sodium	(mg/L)	Quarterly	1	8/07/2025	18	18	18				
Jul-25	Standing Water Level	(m)	Quarterly	1	8/07/2025	2.40	2.40	2.40				
Jul-25	Vanadium	(mg/L)	Quarterly	1	8/07/2025	0.002	0.002	0.002				
Jul-25	Zinc	(mg/L)	Quarterly	1	8/07/2025	0.005	0.005	0.005				

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-25	Aluminium	(mg/L)	Quarterly	1	8/07/2025	1.50	1.50	1.50				
Jul-25	Ammonia	(mg/L)	Quarterly	1	8/07/2025	0.01	0.01	0.01				
Jul-25	Arsenic (III)	(mg/L)	Quarterly	1	8/07/2025	<0.002	<0.002	<0.002				
Jul-25	Arsenic (V)	(mg/L)	Quarterly	1	8/07/2025	<0.002	<0.002	<0.002				
Jul-25	Cadmium	(mg/L)	Quarterly	1	8/07/2025	0.0002	0.0002	0.0002				
Jul-25	Chromium (trivalent)	(mg/L)	Quarterly	1	8/07/2025	<0.005	<0.005	<0.005				
Jul-25	Chromium (VI) Compounds	(mg/L)	Quarterly	1	8/07/2025	<0.005	<0.005	<0.005				
Jul-25	Copper	(mg/L)	Quarterly	1	8/07/2025	0.004	0.004	0.004				
Jul-25	Electrical Conductivity	(us/cm)	Quarterly	1	8/07/2025	41342	41342	41342				
Jul-25	Iron	(mg/L)	Quarterly	1	8/07/2025	92	92	92				Next round of quarterly groundwater sampling scheduled for October 2025
Jul-25	Lead	(mg/L)	Quarterly	1	8/07/2025	0.003	0.003	0.003				
Jul-25	Magnesium	(mg/L)	Quarterly	1	8/07/2025	1200	1200	1200				
Jul-25	Manganese	(mg/L)	Quarterly	1	8/07/2025	0.83	0.83	0.83				
Jul-25	Nickel	(mg/L)	Quarterly	1	8/07/2025	0.006	0.006	0.006				
Jul-25	pH	pH	Quarterly	1	8/07/2025	7.08	7.08	7.08				
Jul-25	Potassium	(mg/L)	Quarterly	1	8/07/2025	300	300	300				
Jul-25	Selenium	(mg/L)	Quarterly	1	8/07/2025	0.001	0.001	0.001				
Jul-25	Sodium	(mg/L)	Quarterly	1	8/07/2025	9200	9200	9200				
Jul-25	Standing Water Level	(m)	Quarterly	1	8/07/2025	0.46	0.46	0.46				
Jul-25	Vanadium	(mg/L)	Quarterly	1	8/07/2025	0.009	0.009	0.009				
Jul-25	Zinc	(mg/L)	Quarterly	1	8/07/2025	0.044	0.044	0.044				

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/Masurement 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-25	Aluminium	(mg/L)	Quarterly	1	8/07/2025	0.7	0.7	0.7					
Jul-25	Ammonia	(mg/L)	Quarterly	1	8/07/2025	0.005	0.005	0.005					
Jul-25	Arsenic (III)	(mg/L)	Quarterly	1	8/07/2025	<0.001	<0.001	<0.001					
Jul-25	Arsenic (V)	(mg/L)	Quarterly	1	8/07/2025	<0.001	<0.001	<0.001					
Jul-25	Cadmium	(mg/L)	Quarterly	1	8/07/2025	<0.0001	<0.0001	<0.0001					
Jul-25	Chromium (trivalent)	(mg/L)	Quarterly	1	8/07/2025	<0.005	<0.005	<0.005					
Jul-25	Chromium (VI) Compounds	(mg/L)	Quarterly	1	8/07/2025	<0.005	<0.005	<0.005					
Jul-25	Copper	(mg/L)	Quarterly	1	8/07/2025	0.002	0.002	0.002					
Jul-25	Electrical Conductivity	(us/cm)	Quarterly	1	8/07/2025	626	626	626					
Jul-25	Iron	(mg/L)	Quarterly	1	8/07/2025	3.9	3.9	3.9					
Jul-25	Lead	(mg/L)	Quarterly	1	8/07/2025	0.001	0.001	0.001					
Jul-25	Magnesium	(mg/L)	Quarterly	1	8/07/2025	7.8	7.8	7.8				Next round of quarterly groundwater sampling scheduled for October 2025	
Jul-25	Manganese	(mg/L)	Quarterly	1	8/07/2025	0.058	0.058	0.058					
Jul-25	Nickel	(mg/L)	Quarterly	1	8/07/2025	0.004	0.004	0.004					
Jul-25	pH	pH	Quarterly	1	8/07/2025	5.72	5.72	5.72					
Jul-25	Potassium	(mg/L)	Quarterly	1	8/07/2025	2	2	2					
Jul-25	Selenium	(mg/L)	Quarterly	1	8/07/2025	<0.001	<0.001	<0.001					
Jul-25	Sodium	(mg/L)	Quarterly	1	8/07/2025	88	88	88					
Jul-25	Standing Water Level	(m)	Quarterly	1	8/07/2025	0.29	0.29	0.29					
Jul-25	Vanadium	(mg/L)	Quarterly	1	8/07/2025	0.005	0.005	0.005					
Jul-25	Zinc	(mg/L)	Quarterly	1	8/07/2025	0.013	0.013	0.013					

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>>.
standard for PM_{2.5} changed from 25ug/m³ to 20ug/m³ in 2025. This reduction is reflected in the PM_{2.5} graph above.

**The Air NEPM daily