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	March 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:

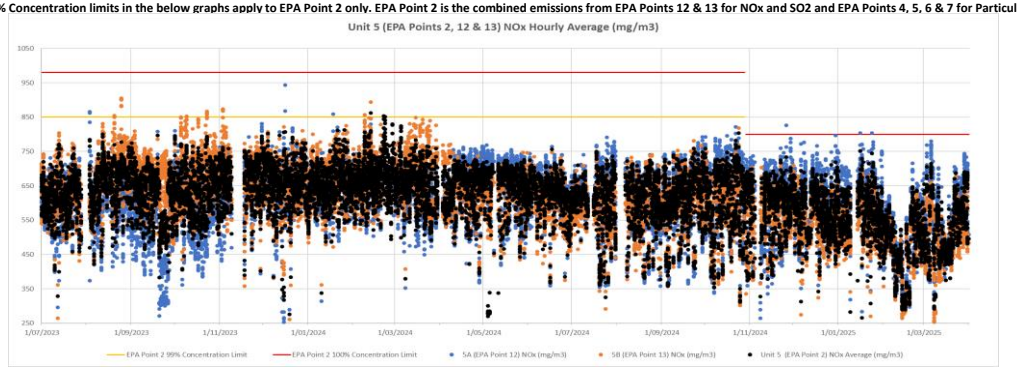
EPL Point	Air/Water/Noise/Other	Pollutant	Value Measured	Licence Limit	Comments

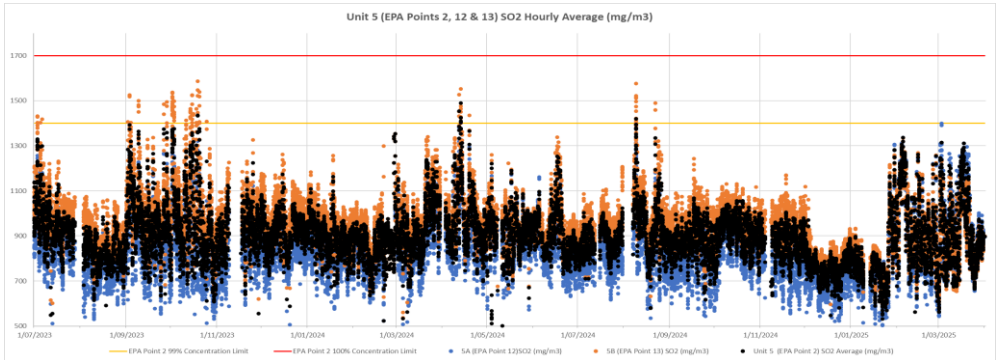
Monitoring Locations

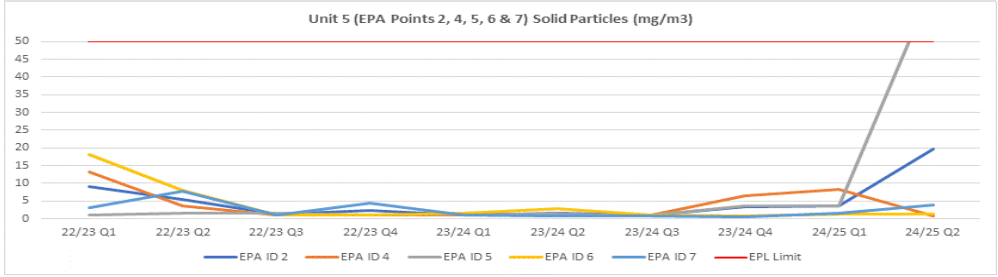
The location of Environment Protection Licence monitoring points within the Vales Point Power Station premises can be found at https://www.de.com.au/environment/environmental-licences-and-monitoring . Click the heading "Vales Point Licence Points" to open the pdf document.

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**
Mar-25	Cadmium	(mg/m3)	Every 6 months							**0.2**	**No**	
Mar-25	Chlorine	(mg/m3)	Every 6 months							**20**	**No**	
Mar-25	Fluorine	(mg/m3)	Every 6 months							**30**	**No**	
Mar-25	Hydrogen chloride	(mg/m3)	Every 6 months							**50**	**No**	
Mar-25	Mercury	(mg/m3)	Every 6 months							**0.05**	**No**	
Mar-25	Nitrogen Oxides	(mg/m3)	Continuous	96.8%	Mar-25	292	531	714		**800**	**No**	
Mar-25	Solid Particles	(mg/m3)	Quarterly							**50**	**No**	
Mar-25	Sulfur dioxide	(mg/m3)	Continuous	96.8%	Mar-25	563	901	1315	**1400**	**1700**	**No**	
Mar-25	Sulfuric acid mist and sulfur trioxide (as SO3)	(mg/m3)	Every 6 months							**100**	**No**	
Mar-25	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months							**0.75**	**No**	
Mar-25	VOC's as n-propane equivalent	(mg/m3)	Every 6 months							**10**	**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.

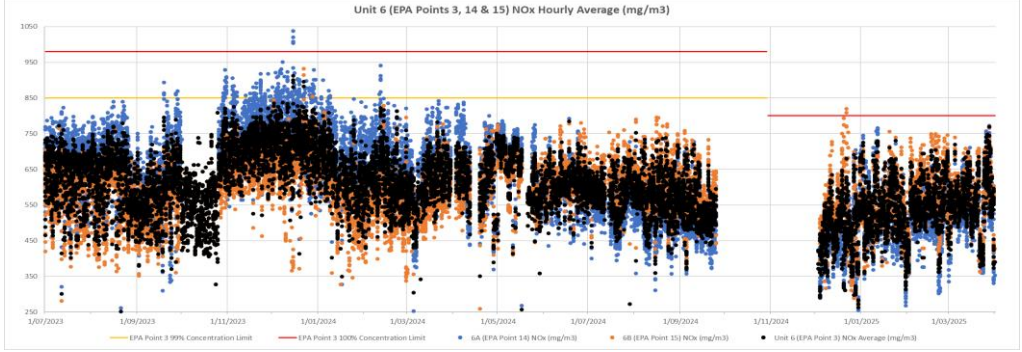


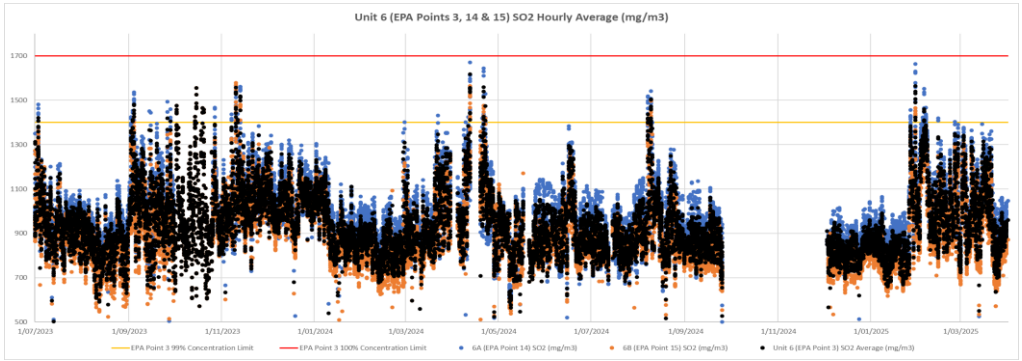


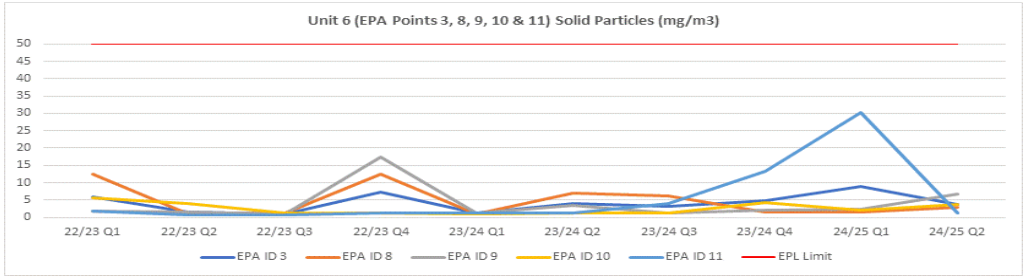


POINT 3	Combined air emissions from boiler 6 via Points 8 to 11 to Point 1 marked and shown as EPA ID 3 on The Plans ("VX837351-1 AND "VX837351-2" 03/06/2020 EPA REFERENCE DOC20/476695 AND DOC20/476695-1).											
Month	**Pollutant**	**Unit of Measure**	**Sample/Measurement Frequency**	**Samples Collected & 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**
Mar-25	Cadmium	(mg/m3)	Every 6 months							0.2	No	
Mar-25	Chlorine	(mg/m3)	Every 6 months							20	No	
Mar-25	Fluorine	(mg/m3)	Every 6 months							30	No	
Mar-25	Hydrogen chloride	(mg/m3)	Every 6 months							50	No	
Mar-25	Mercury	(mg/m3)	Every 6 months							0.05	No	
Mar-25	Nitrogen Oxides	(mg/m3)	Continuous	99.5%	Mar-25	373	557	769		800	No	
Mar-25	Solid Particles	(mg/m3)	Quarterly							50	No	
Mar-25	Sulfur dioxide	(mg/m3)	Continuous	99.5%	Mar-25	550	973	1342	1400	1700	No	
Mar-25	Sulfuric acid mist and sulfur trioxide (as SO3)	(mg/m3)	Every 6 months							100	No	
Mar-25	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months							0.75	No	
Mar-25	VOC's as n-propane equivalent	(mg/m3)	Every 6 months							10	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
Mar-25	Cadmium	(mg/m3)	Every 6 months								N/A	
Mar-25	Carbon dioxide	(%)	Every 6 months								N/A	
Mar-25	Chlorine	(mg/m3)	Every 6 months								N/A	
Mar-25	Fluorine	(mg/m3)	Every 6 months								N/A	
Mar-25	Hydrogen chloride	(mg/m3)	Every 6 months								N/A	
Mar-25	Mercury	(mg/m3)	Every 6 months								N/A	
Mar-25	Solid Particles	(mg/m3)	Quarterly								N/A	
Mar-25	Sulfuric acid mist and sulfur trioxide (as SO3)	(mg/m3)	Every 6 months								N/A	
Mar-25	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months								N/A	
Mar-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
Mar-25	Cadmium	(mg/m3)	Every 6 months								N/A	
Mar-25	Mercury	(mg/m3)	Every 6 months								N/A	
Mar-25	Solid Particles	(mg/m3)	Quarterly								N/A	
Mar-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
Mar-25	Cadmium	(mg/m3)	Every 6 months								N/A	
Mar-25	Carbon dioxide	(%)	Every 6 months								N/A	
Mar-25	Chlorine	(mg/m3)	Every 6 months								N/A	
Mar-25	Fluorine	(mg/m3)	Every 6 months								N/A	
Mar-25	Hydrogen chloride	(mg/m3)	Every 6 months								N/A	
Mar-25	Mercury	(mg/m3)	Every 6 months								N/A	
Mar-25	Solid Particles	(mg/m3)	Quarterly								N/A	
Mar-25	Sulfuric acid mist and sulfur trioxide (as SO3)	(mg/m3)	Every 6 months								N/A	
Mar-25	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months								N/A	
Mar-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
Mar-25	Cadmium	(mg/m3)	Every 6 months								N/A	
Mar-25	Mercury	(mg/m3)	Every 6 months								N/A	
Mar-25	Solid Particles	(mg/m3)	Quarterly								N/A	
Mar-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
Mar-25	Cadmium	(mg/m3)	Every 6 months								N/A	
Mar-25	Carbon dioxide	(%)	Every 6 months								N/A	
Mar-25	Chlorine	(mg/m3)	Every 6 months								N/A	
Mar-25	Fluorine	(mg/m3)	Every 6 months								N/A	
Mar-25	Hydrogen chloride	(mg/m3)	Every 6 months								N/A	
Mar-25	Mercury	(mg/m3)	Every 6 months								N/A	
Mar-25	Solid Particles	(mg/m3)	Quarterly								N/A	
Mar-25	Sulfuric acid mist and sulfur trioxide (as SO3)	(mg/m3)	Every 6 months								N/A	
Mar-25	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months								N/A	
Mar-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
Mar-25	Cadmium	(mg/m3)	Every 6 months								N/A	
Mar-25	Mercury	(mg/m3)	Every 6 months								N/A	
Mar-25	Solid Particles	(mg/m3)	Quarterly								N/A	
Mar-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/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
Mar-25	Cadmium	(mg/m3)	Every 6 months								N/A	
Mar-25	Carbon dioxide	(%)	Every 6 months								N/A	
Mar-25	Chlorine	(mg/m3)	Every 6 months								N/A	
Mar-25	Fluorine	(mg/m3)	Every 6 months								N/A	
Mar-25	Hydrogen chloride	(mg/m3)	Every 6 months								N/A	
Mar-25	Mercury	(mg/m3)	Every 6 months								N/A	
Mar-25	Solid Particles	(mg/m3)	Quarterly								N/A	
Mar-25	Sulfuric acid mist and sulfur trioxide (as SO3)	(mg/m3)	Every 6 months								N/A	
Mar-25	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months								N/A	
Mar-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/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
Mar-25	Cadmium	(mg/m3)	Every 6 months								N/A	
Mar-25	Mercury	(mg/m3)	Every 6 months								N/A	
Mar-25	Solid Particles	(mg/m3)	Quarterly								N/A	
Mar-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/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
Mar-25	Nitrogen Oxides	(mg/m3)	Continuous	100%	Mar-25	334	556	779			N/A	
Mar-25	Sulfur dioxide	(mg/m3)	Continuous	100%	Mar-25	544	927	1399			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/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
Mar-25	Nitrogen Oxides	(mg/m3)	Continuous	94%	Mar-25	249	505	676			N/A	
Mar-25	Sulfur dioxide	(mg/m3)	Continuous	94%	Mar-25	579	875	1236			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/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
Mar-25	Nitrogen Oxides	(mg/m3)	Continuous	100%	Mar-25	331	540	772			N/A	
Mar-25	Sulfur dioxide	(mg/m3)	Continuous	100%	Mar-25	525	1028	1393			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/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
Mar-25	Nitrogen Oxides	(mg/m3)	Continuous	99%	Mar-25	363	575	766			N/A	
Mar-25	Sulfur dioxide	(mg/m3)	Continuous	99%	Mar-25	534	918	1306			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
Mar-25	Chlorine (free residual)	(mg/L)	Monthly during discharge	1	7/03/2025	0.09	0.09	0.09		**0.2**	**No**	
Mar-25	Copper	(mg/L)	Monthly during discharge	1	7/03/2025	0.002	0.002	0.002		**0.005**	**No**	
Mar-25	Iron	(mg/L)	Monthly during discharge	1	7/03/2025	0.13	0.13	0.13		**0.3**	**No**	
Mar-25	Oil and Grease	Visible	Continuous during discharge	100%	Mar-25	NIL	NIL	NIL				
Mar-25	Selenium	(mg/L)	Monthly during discharge	1	7/03/2025	0.002	0.002	0.002		**0.005**	**No**	
Mar-25	Temperature	(°C)	Continuous during discharge	100%	Mar-25	26.0	30.6	34.3	**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
Mar-25	Aluminium	(mg/L)	Monthly during discharge	1	7/03/2025	0.02	0.02	0.02				
Mar-25	Ammonia	(mg/L)	Monthly during discharge	1	7/03/2025	0.098	0.098	0.098				
Mar-25	Arsenic (III)	(mg/L)	Monthly during discharge	1	7/03/2025	<0.001	<0.001	<0.001				
Mar-25	Arsenic (V)	(mg/L)	Monthly during discharge	1	7/03/2025	0.01	0.01	0.01				
Mar-25	Cadmium	(mg/L)	Monthly during discharge	1	7/03/2025	<0.0001	<0.0001	<0.0001				
Mar-25	Chromium (trivalent)	(mg/L)	Monthly during discharge	1	7/03/2025	0.050	0.050	0.050				
Mar-25	Chromium (VI) Compounds	(mg/L)	Monthly during discharge	1	7/03/2025	<0.005	<0.005	<0.005				
Mar-25	Copper	(mg/L)	Monthly during discharge	1	7/03/2025	<0.001	<0.001	<0.001				
Mar-25	Iron	(mg/L)	Monthly during discharge	1	7/03/2025	0.04	0.04	0.04				
Mar-25	Lead	(mg/L)	Monthly during discharge	1	7/03/2025	<0.001	<0.001	<0.001				
Mar-25	Manganese	(mg/L)	Monthly during discharge	1	7/03/2025	0.009	0.009	0.009				
Mar-25	Nickel	(mg/L)	Monthly during discharge	1	7/03/2025	<0.001	<0.001	<0.001				
Mar-25	Nitrate + nitrite (oxidised nitrogen)	(mg/L)	Monthly during discharge	1	7/03/2025	0.086	0.086	0.086				
Mar-25	Nitrogen	(mg/L)	Monthly during discharge	1	7/03/2025	0.8	0.8	0.8				
Mar-25	pH	pH	Monthly during discharge	1	7/03/2025	9.22	9.22	9.22		**6.5 - 9.5**	**No**	
Mar-25	Phosphorus	(mg/L)	Monthly during discharge	1	7/03/2025	<0.1	<0.1	<0.1				
Mar-25	Reactive Phosphorus	(mg/L)	Monthly during discharge	1	7/03/2025	0.14	0.14	0.14				
Mar-25	Selenium	(mg/L)	Monthly during discharge	1	7/03/2025	0.052	0.052	0.052				
Mar-25	Total Kjeldahl Nitrogen	(mg/L)	Monthly during discharge	1	7/03/2025	0.7	0.7	0.7				
Mar-25	Total Suspended Solids	(mg/L)	Monthly during discharge	1	7/03/2025	<5	<5	<5		**50**	**No**	
Mar-25	Vanadium	(mg/L)	Monthly during discharge	1	7/03/2025	0.09	0.09	0.09				
Mar-25	Zinc	(mg/L)	Monthly during discharge	1	7/03/2025	0.005	0.005	0.005				

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
Mar-25	Aluminium	(mg/L)	Monthly during discharge	1	7/03/2025	0.08	0.08	0.08	Yes			
Mar-25	Ammonia	(mg/L)	Monthly during discharge	1	7/03/2025	1.10	1.10	1.10	Yes			
Mar-25	Arsenic (III)	(mg/L)	Monthly during discharge	1	7/03/2025	<0.001	<0.001	<0.001	Yes			
Mar-25	Arsenic (V)	(mg/L)	Monthly during discharge	1	7/03/2025	<0.001	<0.001	<0.001	Yes			
Mar-25	Cadmium	(mg/L)	Monthly during discharge	1	7/03/2025	<0.0001	<0.0001	<0.0001	Yes			
Mar-25	Chromium (trivalent)	(mg/L)	Monthly during discharge	1	7/03/2025	<0.005	<0.005	<0.005	Yes			
Mar-25	Chromium (VI) Compounds	(mg/L)	Monthly during discharge	1	7/03/2025	<0.005	<0.005	<0.005	Yes			
Mar-25	Copper	(mg/L)	Monthly during discharge	1	7/03/2025	<0.001	<0.001	<0.001	Yes			
Mar-25	Iron	(mg/L)	Monthly during discharge	1	7/03/2025	0.15	0.15	0.15	Yes			
Mar-25	Lead	(mg/L)	Monthly during discharge	1	7/03/2025	<0.001	<0.001	<0.001	Yes			
Mar-25	Manganese	(mg/L)	Monthly during discharge	1	7/03/2025	0.086	0.086	0.086	Yes			
Mar-25	Nickel	(mg/L)	Monthly during discharge	1	7/03/2025	0.0060	0.0060	0.0060	Yes			
Mar-25	Nitrate + nitrite (oxidised nitrogen)	(mg/L)	Monthly during discharge	1	7/03/2025	0.42	0.42	0.42	Yes			
Mar-25	Nitrogen	(mg/L)	Monthly during discharge	1	7/03/2025	1.70	1.70	1.70	Yes			
Mar-25	pH	pH	Monthly during discharge	1	7/03/2025	8.26	8.26	8.26	Yes	6.5 - 9.5	No	
Mar-25	Phosphorus	(mg/L)	Monthly during discharge	1	7/03/2025	<0.05	<0.05	<0.05	Yes			
Mar-25	Reactive Phosphorus	(mg/L)	Monthly during discharge	1	7/03/2025	0.087	0.087	0.087	Yes			
Mar-25	Selenium	(mg/L)	Monthly during discharge	1	7/03/2025	0.001	0.001	0.001	Yes			
Mar-25	Total Kjeldahl Nitrogen	(mg/L)	Monthly during discharge	1	7/03/2025	1.30	1.30	1.30	Yes			
Mar-25	Total Suspended Solids	(mg/L)	Monthly during discharge	1	7/03/2025	5	5	5	Yes	50	No	
Mar-25	Vanadium	(mg/L)	Monthly during discharge	1	7/03/2025	0.01	0.01	0.01	Yes			
Mar-25	Zinc	(mg/L)	Monthly during discharge	1	7/03/2025	0.010	0.010	0.010	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
Mar-25	Aluminium	(mg/L)	Daily for any discharge >2 hrs						No			
Mar-25	Ammonia	(mg/L)	Daily for any discharge >2 hrs						No			
Mar-25	Arsenic (III)	(mg/L)	Daily for any discharge >2 hrs						No			
Mar-25	Arsenic (V)	(mg/L)	Daily for any discharge >2 hrs						No			
Mar-25	Cadmium	(mg/L)	Daily for any discharge >2 hrs						No			
Mar-25	Chromium (trivalent)	(mg/L)	Daily for any discharge >2 hrs						No			
Mar-25	Chromium (VI) Compounds	(mg/L)	Daily for any discharge >2 hrs						No			
Mar-25	Copper	(mg/L)	Daily for any discharge >2 hrs						No			
Mar-25	Iron	(mg/L)	Daily for any discharge >2 hrs						No			
Mar-25	Lead	(mg/L)	Daily for any discharge >2 hrs						No			
Mar-25	Manganese	(mg/L)	Daily for any discharge >2 hrs						No			
Mar-25	Nickel	(mg/L)	Daily for any discharge >2 hrs						No			No discharge from EPA25 during March 2025
Mar-25	Nitrate + nitrite (oxidised nitrogen)	(mg/L)	Daily for any discharge >2 hrs						No			
Mar-25	Nitrogen	(mg/L)	Daily for any discharge >2 hrs						No			
Mar-25	pH	pH	Daily for any discharge >2 hrs						No	6.5 - 9.5		
Mar-25	Phosphorus	(mg/L)	Daily for any discharge >2 hrs						No			
Mar-25	Reactive Phosphorus	(mg/L)	Daily for any discharge >2 hrs						No			
Mar-25	Selenium	(mg/L)	Daily for any discharge >2 hrs						No			
Mar-25	Total Kjeldahl Nitrogen	(mg/L)	Daily for any discharge >2 hrs						No			
Mar-25	Total Suspended Solids	(mg/L)	Daily for any discharge >2 hrs						No	50		
Mar-25	Vanadium	(mg/L)	Daily for any discharge >2 hrs						No			
Mar-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
Mar-25	Aluminium	(mg/L)	Quarterly									
Mar-25	Ammonia	(mg/L)	Quarterly									
Mar-25	Arsenic (III)	(mg/L)	Quarterly									
Mar-25	Arsenic (V)	(mg/L)	Quarterly									
Mar-25	Cadmium	(mg/L)	Quarterly									
Mar-25	Chromium (trivalent)	(mg/L)	Quarterly									
Mar-25	Chromium (VI) Compounds	(mg/L)	Quarterly									
Mar-25	Copper	(mg/L)	Quarterly									
Mar-25	Electrical Conductivity	(us/cm)	Quarterly									
Mar-25	Iron	(mg/L)	Quarterly									
Mar-25	Lead	(mg/L)	Quarterly									Next round of quarterly groundwater sampling scheduled for April 2025
Mar-25	Magnesium	(mg/L)	Quarterly									
Mar-25	Manganese	(mg/L)	Quarterly									
Mar-25	Nickel	(mg/L)	Quarterly									
Mar-25	pH	pH	Quarterly									
Mar-25	Potassium	(mg/L)	Quarterly									
Mar-25	Selenium	(mg/L)	Quarterly									
Mar-25	Sodium	(mg/L)	Quarterly									
Mar-25	Standing Water Level	(m)	Quarterly									
Mar-25	Vanadium	(mg/L)	Quarterly									
Mar-25	Zinc	(mg/L)	Quarterly									

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
Mar-25	Aluminium	(mg/L)	Quarterly									
Mar-25	Ammonia	(mg/L)	Quarterly									
Mar-25	Arsenic (III)	(mg/L)	Quarterly									
Mar-25	Arsenic (V)	(mg/L)	Quarterly									
Mar-25	Cadmium	(mg/L)	Quarterly									
Mar-25	Chromium (trivalent)	(mg/L)	Quarterly									
Mar-25	Chromium (VI) Compounds	(mg/L)	Quarterly									
Mar-25	Copper	(mg/L)	Quarterly									
Mar-25	Electrical Conductivity	(us/cm)	Quarterly									
Mar-25	Iron	(mg/L)	Quarterly									
Mar-25	Lead	(mg/L)	Quarterly									Next round of quarterly groundwater sampling scheduled for April 2025
Mar-25	Magnesium	(mg/L)	Quarterly									
Mar-25	Manganese	(mg/L)	Quarterly									
Mar-25	Nickel	(mg/L)	Quarterly									
Mar-25	pH	pH	Quarterly									
Mar-25	Potassium	(mg/L)	Quarterly									
Mar-25	Selenium	(mg/L)	Quarterly									
Mar-25	Sodium	(mg/L)	Quarterly									
Mar-25	Standing Water Level	(m)	Quarterly									
Mar-25	Vanadium	(mg/L)	Quarterly									
Mar-25	Zinc	(mg/L)	Quarterly									

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
Mar-25	Aluminium	(mg/L)	Quarterly									
Mar-25	Ammonia	(mg/L)	Quarterly									
Mar-25	Arsenic (III)	(mg/L)	Quarterly									
Mar-25	Arsenic (V)	(mg/L)	Quarterly									
Mar-25	Cadmium	(mg/L)	Quarterly									
Mar-25	Chromium (trivalent)	(mg/L)	Quarterly									
Mar-25	Chromium (VI) Compounds	(mg/L)	Quarterly									
Mar-25	Copper	(mg/L)	Quarterly									
Mar-25	Electrical Conductivity	(us/cm)	Quarterly									
Mar-25	Iron	(mg/L)	Quarterly									
Mar-25	Lead	(mg/L)	Quarterly									Next round of quarterly groundwater sampling scheduled for April 2025
Mar-25	Magnesium	(mg/L)	Quarterly									
Mar-25	Manganese	(mg/L)	Quarterly									
Mar-25	Nickel	(mg/L)	Quarterly									
Mar-25	pH	pH	Quarterly									
Mar-25	Potassium	(mg/L)	Quarterly									
Mar-25	Selenium	(mg/L)	Quarterly									
Mar-25	Sodium	(mg/L)	Quarterly									
Mar-25	Standing Water Level	(m)	Quarterly									
Mar-25	Vanadium	(mg/L)	Quarterly									
Mar-25	Zinc	(mg/L)	Quarterly									

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).**

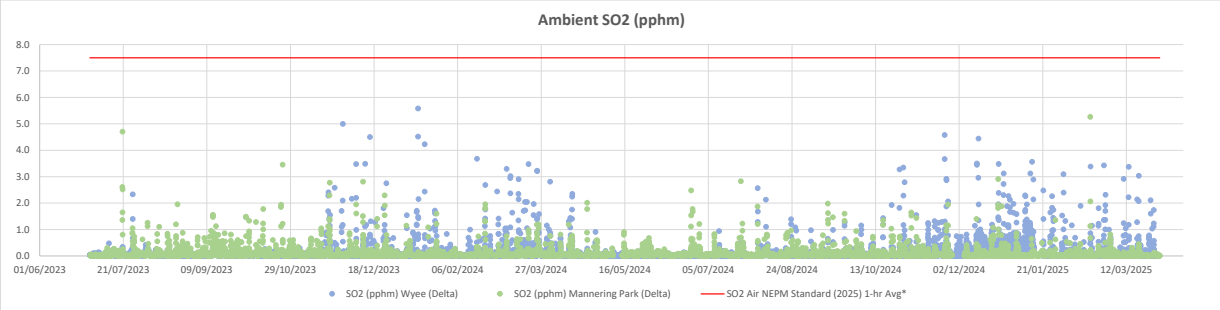
Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Samples Collected & Analysed	Date Sampled	Lowest Sample Value	Mean of Samples	Highest Sample Value	99 Percentile Concentration Limit	100 Percentile Concentration Limit	Exceedance (yes/no)	Comments
Mar-25	Aluminium	(mg/L)	Quarterly									
Mar-25	Ammonia	(mg/L)	Quarterly									
Mar-25	Arsenic (III)	(mg/L)	Quarterly									
Mar-25	Arsenic (V)	(mg/L)	Quarterly									
Mar-25	Cadmium	(mg/L)	Quarterly									
Mar-25	Chromium (trivalent)	(mg/L)	Quarterly									
Mar-25	Chromium (VI) Compounds	(mg/L)	Quarterly									
Mar-25	Copper	(mg/L)	Quarterly									
Mar-25	Electrical Conductivity	(us/cm)	Quarterly									
Mar-25	Iron	(mg/L)	Quarterly									
Mar-25	Lead	(mg/L)	Quarterly									Next round of quarterly groundwater sampling scheduled for April 2025
Mar-25	Magnesium	(mg/L)	Quarterly									
Mar-25	Manganese	(mg/L)	Quarterly									
Mar-25	Nickel	(mg/L)	Quarterly									
Mar-25	pH	pH	Quarterly									
Mar-25	Potassium	(mg/L)	Quarterly									
Mar-25	Selenium	(mg/L)	Quarterly									
Mar-25	Sodium	(mg/L)	Quarterly									
Mar-25	Standing Water Level	(m)	Quarterly									
Mar-25	Vanadium	(mg/L)	Quarterly									
Mar-25	Zinc	(mg/L)	Quarterly									

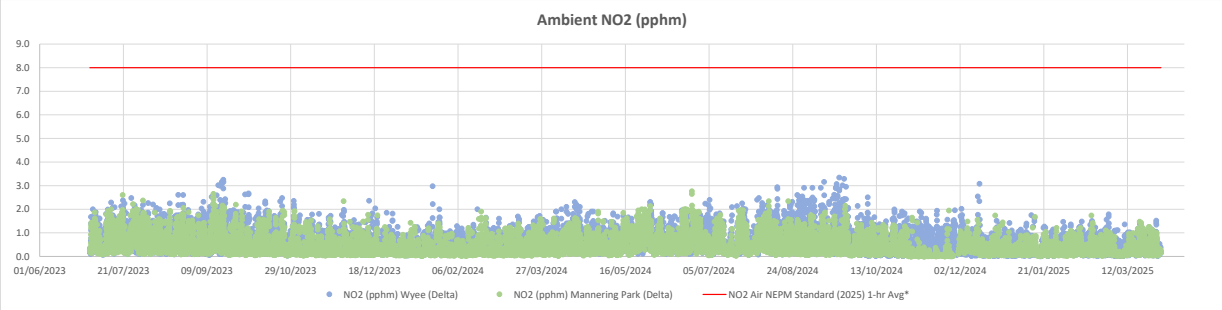
POINT 34 **Groundwater quality monitoring bore marked and shown as EPA ID 33 on The Plans ("VX837351-1 AND "VX837351-2" 03/06/2020 EPA REFERENCE DOC20/476695 AND DOC20/476695-1).**

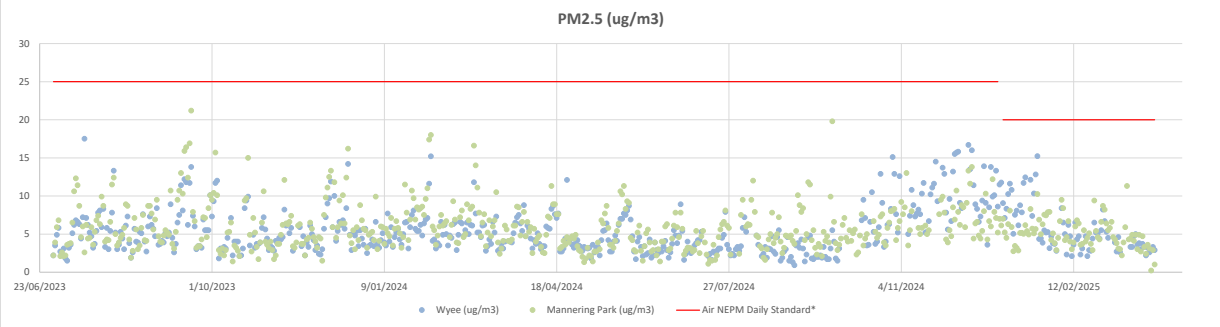
Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Samples Collected & Analysed	Date Sampled	Lowest Sample Value	Mean of Samples	Highest Sample Value	99 Percentile Concentration Limit	100 Percentile Concentration Limit	Exceedance (yes/no)	Comments
Mar-25	Aluminium	(mg/L)	Quarterly									
Mar-25	Ammonia	(mg/L)	Quarterly									
Mar-25	Arsenic (III)	(mg/L)	Quarterly									
Mar-25	Arsenic (V)	(mg/L)	Quarterly									
Mar-25	Cadmium	(mg/L)	Quarterly									
Mar-25	Chromium (trivalent)	(mg/L)	Quarterly									
Mar-25	Chromium (VI) Compounds	(mg/L)	Quarterly									
Mar-25	Copper	(mg/L)	Quarterly									
Mar-25	Electrical Conductivity	(us/cm)	Quarterly									
Mar-25	Iron	(mg/L)	Quarterly									
Mar-25	Lead	(mg/L)	Quarterly									Next round of quarterly groundwater sampling scheduled for April 2025
Mar-25	Magnesium	(mg/L)	Quarterly									
Mar-25	Manganese	(mg/L)	Quarterly									
Mar-25	Nickel	(mg/L)	Quarterly									
Mar-25	pH	pH	Quarterly									
Mar-25	Potassium	(mg/L)	Quarterly									
Mar-25	Selenium	(mg/L)	Quarterly									
Mar-25	Sodium	(mg/L)	Quarterly									
Mar-25	Standing Water Level	(m)	Quarterly									
Mar-25	Vanadium	(mg/L)	Quarterly									
Mar-25	Zinc	(mg/L)	Quarterly									

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>.

**The Air NEPM daily standard for PM2.5 changed from 25ug/m3 to 20ug/m3 in 2025. This reduction is reflected in the PM2.5 graph above.