

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	September 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
Sep-24	Cadmium	(mg/m3)	Every 6 months	1	Jul-2024	0.000694	0.000694	0.000694		0.2	No	
Sep-24	Chlorine	(mg/m3)	Every 6 months	1	Jul-2024	<0.0424	<0.0424	<0.0424		20	No	
Sep-24	Fluorine	(mg/m3)	Every 6 months	1	Jul-2024	14.615	14.615	14.615		30	No	
Sep-24	Hydrogen chloride	(mg/m3)	Every 6 months	1	Jul-2024	<0.04	<0.04	<0.04		50	No	
Sep-24	Mercury	(mg/m3)	Every 6 months	1	Jul-2024	0.0006	0.0006	0.0006		0.05	No	
Sep-24	Nitrogen Oxides	(mg/m3)	Continuous	96.9%	Sep-24	401	607	758	850	980	No	
Sep-24	Solid Particles	(mg/m3)	Quarterly	1	Jul-2024	3.61	3.61	3.61		50	No	
Sep-24	Sulfur dioxide	(mg/m3)	Continuous	99.3%	Sep-24	616	870	1068	1400	1700	No	
Sep-24	Sulfuric acid mist and sulfur trioxide (as SO3)	(mg/m3)	Every 6 months	1	Jul-2024	7.1	7.1	7.1		100	No	
Sep-24	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months	1	Jul-2024	0.012	0.012	0.012		0.75	No	
Sep-24	VOC's as n-propane equivalent	(mg/m3)	Every 6 months	1	Jul-2024	<0.4699	<0.4699	<0.4699		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
Sep-24	Cadmium	(mg/m3)	Every 6 months	1	Jul-2024	0.00036	0.00036	0.00036		0.2	No	
Sep-24	Chlorine	(mg/m3)	Every 6 months	1	Jul-2024	<0.0459	<0.0459	<0.0459		20	No	
Sep-24	Fluorine	(mg/m3)	Every 6 months	1	Jul-2024	7.246	7.246	7.246		30	No	
Sep-24	Hydrogen chloride	(mg/m3)	Every 6 months	1	Jul-2024	<0.038	<0.038	<0.038		50	No	
Sep-24	Mercury	(mg/m3)	Every 6 months	1	Jul-2024	0.0010	0.0010	0.0010		0.05	No	
Sep-24	Nitrogen Oxides	(mg/m3)	Continuous	98.8%	Sep-24	370	541	719	850	980	No	
Sep-24	Solid Particles	(mg/m3)	Quarterly	1	Jul-2024	8.86	8.86	8.86		50	No	
Sep-24	Sulfur dioxide	(mg/m3)	Continuous	99.8%	Sep-24	528	860	1061	1400	1700	No	
Sep-24	Sulfuric acid mist and sulfur trioxide (as SO3)	(mg/m3)	Every 6 months	1	Jul-2024	6.8	6.8	6.8		100	No	
Sep-24	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months	1	Jul-2024	0.010	0.010	0.010		0.75	No	
Sep-24	VOC's as n-propane equivalent	(mg/m3)	Every 6 months	1	Jul-2024	<0.4635	<0.4635	<0.4635		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
Sep-24	Cadmium	(mg/m3)	Every 6 months	1	Jul-2024	0.00227	0.00227	0.00227			N/A	
Sep-24	Carbon dioxide	(%)	Every 6 months	1	Jul-2024	7.7	7.7	7.7			N/A	
Sep-24	Chlorine	(mg/m3)	Every 6 months	1	Jul-2024	<0.049	<0.049	<0.049			N/A	
Sep-24	Fluorine	(mg/m3)	Every 6 months	1	Jul-2024	17.03	17.03	17.03			N/A	
Sep-24	Hydrogen chloride	(mg/m3)	Every 6 months	1	Jul-2024	<0.049	<0.049	<0.049			N/A	
Sep-24	Mercury	(mg/m3)	Every 6 months	1	Jul-2024	0.00035	0.00035	0.00035			N/A	
Sep-24	Solid Particles	(mg/m3)	Quarterly	1	Jul-2024	8.4	8.4	8.4			N/A	
Sep-24	Sulfuric acid mist and sulfur trioxide (as SO3)	(mg/m3)	Every 6 months	1	Jul-2024	8.9	8.9	8.9			N/A	
Sep-24	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months	1	Jul-2024	0.011	0.011	0.011			N/A	
Sep-24	VOC's as n-propane equivalent	(mg/m3)	Every 6 months	1	Jul-2024	<0.471	<0.471	<0.471			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
Sep-24	Cadmium	(mg/m3)	Every 6 months	1	Jul-2024	0.00035	0.00035	0.00035			N/A	
Sep-24	Mercury	(mg/m3)	Every 6 months	1	Jul-2024	0.0002	0.0002	0.0002			N/A	
Sep-24	Solid Particles	(mg/m3)	Quarterly	1	Jul-2024	3.8	3.8	3.8			N/A	
Sep-24	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months	1	Jul-2024	0.00384	0.00384	0.00384			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
Sep-24	Cadmium	(mg/m3)	Every 6 months	1	Jul-2024	0.00032	0.00032	0.00032			N/A	
Sep-24	Carbon dioxide	(%)	Every 6 months	1	Jul-2024	11.0	11.0	11.0			N/A	
Sep-24	Chlorine	(mg/m3)	Every 6 months	1	Jul-2024	<0.0357	<0.0357	<0.0357			N/A	
Sep-24	Fluorine	(mg/m3)	Every 6 months	1	Jul-2024	12.248	12.248	12.248			N/A	
Sep-24	Hydrogen chloride	(mg/m3)	Every 6 months	1	Jul-2024	<0.031	<0.031	<0.031			N/A	
Sep-24	Mercury	(mg/m3)	Every 6 months	1	Jul-2024	0.002	0.002	0.002			N/A	
Sep-24	Solid Particles	(mg/m3)	Quarterly	1	Jul-2024	1.3	1.3	1.3			N/A	
Sep-24	Sulfuric acid mist and sulfur trioxide (as SO3)	(mg/m3)	Every 6 months	1	Jul-2024	5.45	5.45	5.45			N/A	
Sep-24	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months	1	Jul-2024	0.0065	0.0065	0.0065			N/A	
Sep-24	VOC's as n-propane equivalent	(mg/m3)	Every 6 months	1	Jul-2024	<0.4691	<0.4691	<0.4691			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
Sep-24	Cadmium	(mg/m3)	Every 6 months	1	Jul-2024	0.00030	0.00030	0.00030			N/A	
Sep-24	Mercury	(mg/m3)	Every 6 months	1	Jul-2024	0.00028	0.00028	0.00028			N/A	
Sep-24	Solid Particles	(mg/m3)	Quarterly	1	Jul-2024	1.6	1.6	1.6			N/A	
Sep-24	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months	1	Jul-2024	0.02977	0.02977	0.02977			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
Sep-24	Cadmium	(mg/m3)	Every 6 months	1	Jul-2024	0.00034	0.00034	0.00034			N/A	
Sep-24	Carbon dioxide	(%)	Every 6 months	1	Jul-2024	11.6	11.6	11.6			N/A	
Sep-24	Chlorine	(mg/m3)	Every 6 months	1	Jul-2024	<0.0473	<0.0473	<0.0473			N/A	
Sep-24	Fluorine	(mg/m3)	Every 6 months	1	Jul-2024	5.913	5.913	5.913			N/A	
Sep-24	Hydrogen chloride	(mg/m3)	Every 6 months	1	Jul-2024	<0.0386	<0.0386	<0.0386			N/A	
Sep-24	Mercury	(mg/m3)	Every 6 months	1	Jul-2024	0.00013	0.00013	0.00013			N/A	
Sep-24	Solid Particles	(mg/m3)	Quarterly	1	Jul-2024	1.6	1.6	1.6			N/A	
Sep-24	Sulfuric acid mist and sulfur trioxide (as SO3)	(mg/m3)	Every 6 months	1	Jul-2024	6.8	6.8	6.8			N/A	
Sep-24	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months	1	Jul-2024	0.00372	0.00372	0.00372			N/A	
Sep-24	VOC's as n-propane equivalent	(mg/m3)	Every 6 months	1	Jul-2024	<0.4659	<0.4659	<0.4659			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
Sep-24	Cadmium	(mg/m3)	Every 6 months	1	Jul-2024	0.00031	0.00031	0.00031			N/A	
Sep-24	Mercury	(mg/m3)	Every 6 months	1	Jul-2024	0.000092	0.000092	0.000092			N/A	
Sep-24	Solid Particles	(mg/m3)	Quarterly	1	Jul-2024	2.4	2.4	2.4			N/A	
Sep-24	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months	1	Jul-2024	0.00548	0.00548	0.00548			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
Sep-24	Cadmium	(mg/m3)	Every 6 months	1	Jul-2024	0.00041	0.00041	0.00041			N/A	
Sep-24	Carbon dioxide	(%)	Every 6 months	1	Jul-2024	10.6	10.6	10.6			N/A	
Sep-24	Chlorine	(mg/m3)	Every 6 months	1	Jul-2024	<0.0445	<0.0445	<0.0445			N/A	
Sep-24	Fluorine	(mg/m3)	Every 6 months	1	Jul-2024	8.658	8.658	8.658			N/A	
Sep-24	Hydrogen chloride	(mg/m3)	Every 6 months	1	Jul-2024	<0.0384	<0.0384	<0.0384			N/A	
Sep-24	Mercury	(mg/m3)	Every 6 months	1	Jul-2024	0.00014	0.00014	0.00014			N/A	
Sep-24	Solid Particles	(mg/m3)	Quarterly	1	Jul-2024	2.1	2.1	2.1			N/A	
Sep-24	Sulfuric acid mist and sulfur trioxide (as SO3)	(mg/m3)	Every 6 months	1	Jul-2024	6.8	6.8	6.8			N/A	
Sep-24	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months	1	Jul-2024	0.01143	0.01143	0.01143			N/A	
Sep-24	VOC's as n-propane equivalent	(mg/m3)	Every 6 months	1	Jul-2024	<0.46089	<0.46089	<0.46089			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
Sep-24	Cadmium	(mg/m3)	Every 6 months	1	Jul-2024	0.00039	0.00039	0.00039			N/A	
Sep-24	Mercury	(mg/m3)	Every 6 months	1	Jul-2024	0.00013	0.00013	0.00013			N/A	
Sep-24	Solid Particles	(mg/m3)	Quarterly	1	Jul-2024	30.1	30.1	30.1			N/A	
Sep-24	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months	1	Jul-2024	0.02054	0.02054	0.02054			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
Sep-24	Nitrogen Oxides	(mg/m3)	Continuous	97.6%	Sep-24	358	606	792			N/A	
Sep-24	Sulfur dioxide	(mg/m3)	Continuous	100.0%	Sep-24	543	790	984			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
Sep-24	Nitrogen Oxides	(mg/m3)	Continuous	96.3%	Sep-24	386	607	781			N/A	
Sep-24	Sulfur dioxide	(mg/m3)	Continuous	98.6%	Sep-24	663	949	1244			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
Sep-24	Nitrogen Oxides	(mg/m3)	Continuous	98.8%	Sep-24	357	511	727			N/A	
Sep-24	Sulfur dioxide	(mg/m3)	Continuous	99.8%	Sep-24	501	912	1135			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
Sep-24	Nitrogen Oxides	(mg/m3)	Continuous	98.8%	Sep-24	383	571	758			N/A	
Sep-24	Sulfur dioxide	(mg/m3)	Continuous	99.8%	Sep-24	554	809	1023			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
Sep-24	Chlorine (free residual)	(mg/L)	Monthly during discharge	1	3/09/2024	0	0	0		0.2	No	
Sep-24	Copper	(mg/L)	Monthly during discharge	1	3/09/2024	0.002	0.002	0.002		0.005	No	
Sep-24	Iron	(mg/L)	Monthly during discharge	1	3/09/2024	0.11	0.11	0.11		0.3	No	
Sep-24	Oil and Grease	Visible	Continuous during discharge	100%	Sep-24	NIL	NIL	NIL				
Sep-24	Selenium	(mg/L)	Monthly during discharge	1	3/09/2024	0.002	0.002	0.002		0.005	No	
Sep-24	Temperature	(°C)	Continuous during discharge	100%	Sep-24	13.4	25.2	30.5	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
Sep-24	Aluminium	(mg/L)	Monthly during discharge	1	17/09/2024	0.07	0.07	0.07				
Sep-24	Ammonia	(mg/L)	Monthly during discharge	1	17/09/2024	0.022	0.022	0.022				
Sep-24	Arsenic (III)	(mg/L)	Monthly during discharge	1	17/09/2024	<0.005	<0.005	<0.005				
Sep-24	Arsenic (V)	(mg/L)	Monthly during discharge	1	17/09/2024	0.019	0.019	0.019				
Sep-24	Cadmium	(mg/L)	Monthly during discharge	1	17/09/2024	<0.0001	<0.0001	<0.0001				
Sep-24	Chromium (trivalent)	(mg/L)	Monthly during discharge	1	17/09/2024	0.010	0.010	0.010				
Sep-24	Chromium (VI) Compounds	(mg/L)	Monthly during discharge	1	17/09/2024	0.030	0.030	0.030				
Sep-24	Copper	(mg/L)	Monthly during discharge	1	17/09/2024	0.002	0.002	0.002				
Sep-24	Iron	(mg/L)	Monthly during discharge	1	17/09/2024	0.030	0.030	0.030				
Sep-24	Lead	(mg/L)	Monthly during discharge	1	17/09/2024	<0.001	<0.001	<0.001				
Sep-24	Manganese	(mg/L)	Monthly during discharge	1	17/09/2024	<0.005	<0.005	<0.005				
Sep-24	Nickel	(mg/L)	Monthly during discharge	1	17/09/2024	0.010	0.010	0.010				
Sep-24	Nitrate + nitrite (oxidised nitrogen)	(mg/L)	Monthly during discharge	1	17/09/2024	0.210	0.210	0.210				
Sep-24	Nitrogen	(mg/L)	Monthly during discharge	1	17/09/2024	0.40	0.40	0.40				
Sep-24	pH	pH	Monthly during discharge	1	17/09/2024	8.88	8.88	8.88		6.5 - 9.5	No	
Sep-24	Phosphorus	(mg/L)	Monthly during discharge	1	17/09/2024	0.10	0.10	0.10				
Sep-24	Reactive Phosphorus	(mg/L)	Monthly during discharge	1	17/09/2024	0.08	0.08	0.08				
Sep-24	Selenium	(mg/L)	Monthly during discharge	1	17/09/2024	0.065	0.065	0.065				
Sep-24	Total Kjeldahl Nitrogen	(mg/L)	Monthly during discharge	1	17/09/2024	0.2	0.2	0.2				
Sep-24	Total Suspended Solids	(mg/L)	Monthly during discharge	1	17/09/2024	14	14	14		50	No	
Sep-24	Vanadium	(mg/L)	Monthly during discharge	1	17/09/2024	0.13	0.13	0.13				
Sep-24	Zinc	(mg/L)	Monthly during discharge	1	17/09/2024	0.045	0.045	0.045				

POINT 24 Discharge of seepage water from the ash dam rehabilitation area to Mannering Bay marked and shown as EPA ID 24 on The Plans ("VX837351-1 AND "VX837351-2" 03/06/2020 EPA REFERENCE DOC20/476695 AND DOC20/476695-1).

Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Samples Collected & Analysed	Date Sampled	Lowest Sample Value	Mean of Samples	Highest Sample Value	Discharge (yes/no)	100 Percentile Concentration Limit	Exceedance (yes/no)	Comments
Sep-24	Aluminium	(mg/L)	Monthly during discharge	1	3/09/2024				No			
Sep-24	Ammonia	(mg/L)	Monthly during discharge	1	3/09/2024				No			
Sep-24	Arsenic (III)	(mg/L)	Monthly during discharge	1	3/09/2024				No			
Sep-24	Arsenic (V)	(mg/L)	Monthly during discharge	1	3/09/2024				No			
Sep-24	Cadmium	(mg/L)	Monthly during discharge	1	3/09/2024				No			
Sep-24	Chromium (trivalent)	(mg/L)	Monthly during discharge	1	3/09/2024				No			
Sep-24	Chromium (VI) Compounds	(mg/L)	Monthly during discharge	1	3/09/2024				No			
Sep-24	Copper	(mg/L)	Monthly during discharge	1	3/09/2024				No			
Sep-24	Iron	(mg/L)	Monthly during discharge	1	3/09/2024				No			
Sep-24	Lead	(mg/L)	Monthly during discharge	1	3/09/2024				No			
Sep-24	Manganese	(mg/L)	Monthly during discharge	1	3/09/2024				No			No discharge from EPA Point 24 during September 2024
Sep-24	Nickel	(mg/L)	Monthly during discharge	1	3/09/2024				No			
Sep-24	Nitrate + nitrite (oxidised nitrogen)	(mg/L)	Monthly during discharge	1	3/09/2024				No			
Sep-24	Nitrogen	(mg/L)	Monthly during discharge	1	3/09/2024				No			
Sep-24	pH	pH	Monthly during discharge	1	3/09/2024				No	6.5 - 9.5	No	
Sep-24	Phosphorus	(mg/L)	Monthly during discharge	1	3/09/2024				No			
Sep-24	Reactive Phosphorus	(mg/L)	Monthly during discharge	1	3/09/2024				No			
Sep-24	Selenium	(mg/L)	Monthly during discharge	1	3/09/2024				No			
Sep-24	Total Kjeldahl Nitrogen	(mg/L)	Monthly during discharge	1	3/09/2024				No			
Sep-24	Total Suspended Solids	(mg/L)	Monthly during discharge	1	3/09/2024				No	50	No	
Sep-24	Vanadium	(mg/L)	Monthly during discharge	1	3/09/2024				No			
Sep-24	Zinc	(mg/L)	Monthly during discharge	1	3/09/2024				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
Sep-24	Aluminium	(mg/L)	Daily for any discharge >2 hrs						No			
Sep-24	Ammonia	(mg/L)	Daily for any discharge >2 hrs						No			
Sep-24	Arsenic (III)	(mg/L)	Daily for any discharge >2 hrs						No			
Sep-24	Arsenic (V)	(mg/L)	Daily for any discharge >2 hrs						No			
Sep-24	Cadmium	(mg/L)	Daily for any discharge >2 hrs						No			
Sep-24	Chromium (trivalent)	(mg/L)	Daily for any discharge >2 hrs						No			
Sep-24	Chromium (VI) Compounds	(mg/L)	Daily for any discharge >2 hrs						No			
Sep-24	Copper	(mg/L)	Daily for any discharge >2 hrs						No			
Sep-24	Iron	(mg/L)	Daily for any discharge >2 hrs						No			
Sep-24	Lead	(mg/L)	Daily for any discharge >2 hrs						No			
Sep-24	Manganese	(mg/L)	Daily for any discharge >2 hrs						No			
Sep-24	Nickel	(mg/L)	Daily for any discharge >2 hrs						No			No discharge from EPA Point 25 during September 2024
Sep-24	Nitrate + nitrite (oxidised nitrogen)	(mg/L)	Daily for any discharge >2 hrs						No			
Sep-24	Nitrogen	(mg/L)	Daily for any discharge >2 hrs						No			
Sep-24	pH	pH	Daily for any discharge >2 hrs						No	6.5 - 9.5		
Sep-24	Phosphorus	(mg/L)	Daily for any discharge >2 hrs						No			
Sep-24	Reactive Phosphorus	(mg/L)	Daily for any discharge >2 hrs						No			
Sep-24	Selenium	(mg/L)	Daily for any discharge >2 hrs						No			
Sep-24	Total Kjeldahl Nitrogen	(mg/L)	Daily for any discharge >2 hrs						No			
Sep-24	Total Suspended Solids	(mg/L)	Daily for any discharge >2 hrs						No	50		
Sep-24	Vanadium	(mg/L)	Daily for any discharge >2 hrs						No			
Sep-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
Sep-24	Aluminium	(mg/L)	Quarterly									
Sep-24	Ammonia	(mg/L)	Quarterly									
Sep-24	Arsenic (III)	(mg/L)	Quarterly									
Sep-24	Arsenic (V)	(mg/L)	Quarterly									
Sep-24	Cadmium	(mg/L)	Quarterly									
Sep-24	Chromium (trivalent)	(mg/L)	Quarterly									
Sep-24	Chromium (VI) Compounds	(mg/L)	Quarterly									
Sep-24	Copper	(mg/L)	Quarterly									
Sep-24	Electrical Conductivity	(us/cm)	Quarterly									
Sep-24	Iron	(mg/L)	Quarterly									
Sep-24	Lead	(mg/L)	Quarterly									Next sample scheduled for October 2024
Sep-24	Magnesium	(mg/L)	Quarterly									
Sep-24	Manganese	(mg/L)	Quarterly									
Sep-24	Nickel	(mg/L)	Quarterly									
Sep-24	pH	pH	Quarterly									
Sep-24	Potassium	(mg/L)	Quarterly									
Sep-24	Selenium	(mg/L)	Quarterly									
Sep-24	Sodium	(mg/L)	Quarterly									
Sep-24	Standing Water Level	(m)	Quarterly									
Sep-24	Vanadium	(mg/L)	Quarterly									
Sep-24	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
Sep-24	Aluminium	(mg/L)	Quarterly									
Sep-24	Ammonia	(mg/L)	Quarterly									
Sep-24	Arsenic (III)	(mg/L)	Quarterly									
Sep-24	Arsenic (V)	(mg/L)	Quarterly									
Sep-24	Cadmium	(mg/L)	Quarterly									
Sep-24	Chromium (trivalent)	(mg/L)	Quarterly									
Sep-24	Chromium (VI) Compounds	(mg/L)	Quarterly									
Sep-24	Copper	(mg/L)	Quarterly									
Sep-24	Electrical Conductivity	(us/cm)	Quarterly									
Sep-24	Iron	(mg/L)	Quarterly									
Sep-24	Lead	(mg/L)	Quarterly									Next sample scheduled for October 2024
Sep-24	Magnesium	(mg/L)	Quarterly									
Sep-24	Manganese	(mg/L)	Quarterly									
Sep-24	Nickel	(mg/L)	Quarterly									
Sep-24	pH	pH	Quarterly									
Sep-24	Potassium	(mg/L)	Quarterly									
Sep-24	Selenium	(mg/L)	Quarterly									
Sep-24	Sodium	(mg/L)	Quarterly									
Sep-24	Standing Water Level	(m)	Quarterly									
Sep-24	Vanadium	(mg/L)	Quarterly									
Sep-24	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
Sep-24	Aluminium	(mg/L)	Quarterly									
Sep-24	Ammonia	(mg/L)	Quarterly									
Sep-24	Arsenic (III)	(mg/L)	Quarterly									
Sep-24	Arsenic (V)	(mg/L)	Quarterly									
Sep-24	Cadmium	(mg/L)	Quarterly									
Sep-24	Chromium (trivalent)	(mg/L)	Quarterly									
Sep-24	Chromium (VI) Compounds	(mg/L)	Quarterly									
Sep-24	Copper	(mg/L)	Quarterly									
Sep-24	Electrical Conductivity	(us/cm)	Quarterly									
Sep-24	Iron	(mg/L)	Quarterly									
Sep-24	Lead	(mg/L)	Quarterly									
Sep-24	Magnesium	(mg/L)	Quarterly									
Sep-24	Manganese	(mg/L)	Quarterly									
Sep-24	Nickel	(mg/L)	Quarterly									
Sep-24	pH	pH	Quarterly									
Sep-24	Potassium	(mg/L)	Quarterly									
Sep-24	Selenium	(mg/L)	Quarterly									
Sep-24	Sodium	(mg/L)	Quarterly									
Sep-24	Standing Water Level	(m)	Quarterly									
Sep-24	Vanadium	(mg/L)	Quarterly									
Sep-24	Zinc	(mg/L)	Quarterly									

Next sample scheduled for October 2024

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
Sep-24	Aluminium	(mg/L)	Quarterly									
Sep-24	Ammonia	(mg/L)	Quarterly									
Sep-24	Arsenic (III)	(mg/L)	Quarterly									
Sep-24	Arsenic (V)	(mg/L)	Quarterly									
Sep-24	Cadmium	(mg/L)	Quarterly									
Sep-24	Chromium (trivalent)	(mg/L)	Quarterly									
Sep-24	Chromium (VI) Compounds	(mg/L)	Quarterly									
Sep-24	Copper	(mg/L)	Quarterly									
Sep-24	Electrical Conductivity	(us/cm)	Quarterly									
Sep-24	Iron	(mg/L)	Quarterly									
Sep-24	Lead	(mg/L)	Quarterly									
Sep-24	Magnesium	(mg/L)	Quarterly									
Sep-24	Manganese	(mg/L)	Quarterly									
Sep-24	Nickel	(mg/L)	Quarterly									
Sep-24	pH	pH	Quarterly									
Sep-24	Potassium	(mg/L)	Quarterly									
Sep-24	Selenium	(mg/L)	Quarterly									
Sep-24	Sodium	(mg/L)	Quarterly									
Sep-24	Standing Water Level	(m)	Quarterly									
Sep-24	Vanadium	(mg/L)	Quarterly									
Sep-24	Zinc	(mg/L)	Quarterly									

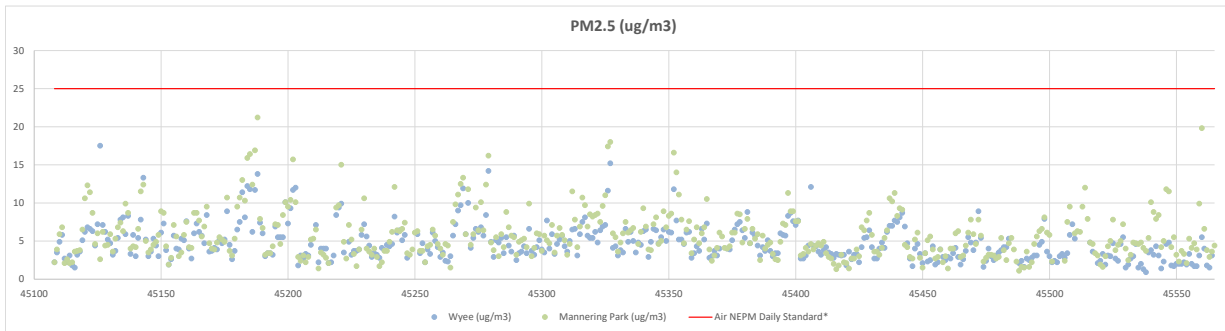
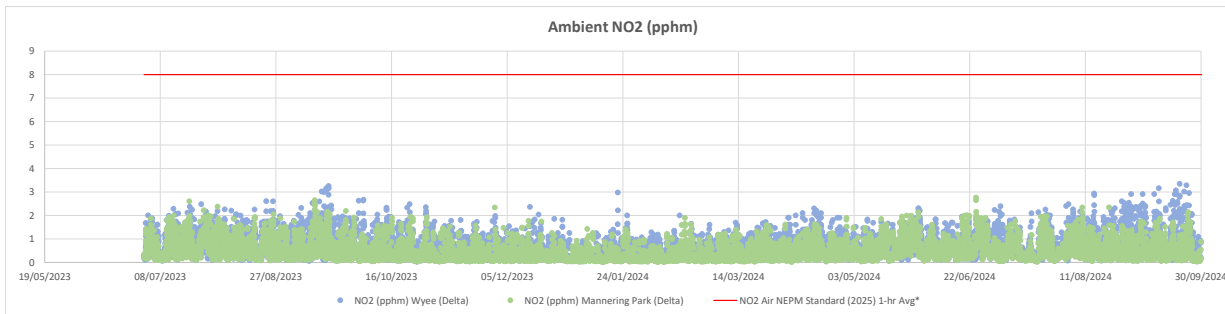
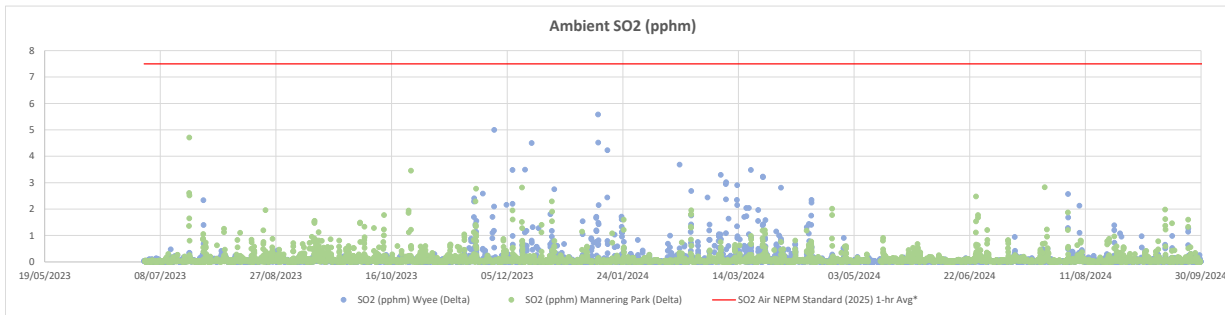
Next sample scheduled for October 2024

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
Sep-24	Aluminium	(mg/L)	Quarterly									
Sep-24	Ammonia	(mg/L)	Quarterly									
Sep-24	Arsenic (III)	(mg/L)	Quarterly									
Sep-24	Arsenic (V)	(mg/L)	Quarterly									
Sep-24	Cadmium	(mg/L)	Quarterly									
Sep-24	Chromium (trivalent)	(mg/L)	Quarterly									
Sep-24	Chromium (VI) Compounds	(mg/L)	Quarterly									
Sep-24	Copper	(mg/L)	Quarterly									
Sep-24	Electrical Conductivity	(us/cm)	Quarterly									
Sep-24	Iron	(mg/L)	Quarterly									Next sample scheduled for October 2024
Sep-24	Lead	(mg/L)	Quarterly									
Sep-24	Magnesium	(mg/L)	Quarterly									
Sep-24	Manganese	(mg/L)	Quarterly									
Sep-24	Nickel	(mg/L)	Quarterly									
Sep-24	pH	pH	Quarterly									
Sep-24	Potassium	(mg/L)	Quarterly									
Sep-24	Selenium	(mg/L)	Quarterly									
Sep-24	Sodium	(mg/L)	Quarterly									
Sep-24	Standing Water Level	(m)	Quarterly									
Sep-24	Vanadium	(mg/L)	Quarterly									
Sep-24	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>>