Eraring Power Station - EPA Licence 1429
Rocky Point Rd, Dora Creek NSW 2264

Environmental Monitoring Data February 2026



Compliance Summary:

Were all EPL monitoring limits met	Yes

Details of EPL Non- compliances

EPA Identification no.	Type of Monitoring Point	Type of Discharge Point	Reading	Units	Licence Limit	Date	Comments

EPL1429 Environment Protection Licence monitoring locations are shown here
https://www.originenergy.com.au/wp-content/uploads/3/Eraring_Power_Station_EPL_Monitoring_Locations_Map.pdf

Unit 1 Boiler Continuous Emission Monitoring Summary

EPA Identification no.3 - Air emissions monitoring, Boiler 1 stack discharge to air

	NOx			SO_2		
	mg/Nm^3 (7% O_2)			mg/Nm^3 (7% O_2)		
	Daily Ave	Daily Max Hourly Average	Daily Min Hourly Average	Daily Ave	Daily Max Hourly Average	Daily Min Hourly Average
01/02/2026	391	455	340	796	881	692
02/02/2026	451	495	393	865	998	632
03/02/2026	435	475	297	822	920	711
04/02/2026	399	467	307	837	912	746
05/02/2026	343	437	297	829	921	734
06/02/2026	385	443	308	811	842	769
07/02/2026	381	441	291	811	862	769
08/02/2026	397	451	306	748	809	705
09/02/2026	428	520	339	828	952	700
10/02/2026	414	462	281	785	835	681
11/02/2026	393	432	343	783	829	725
12/02/2026	420	480	368	761	894	620
13/02/2026	446	481	386	745	866	611
14/02/2026	404	553	302	721	846	613
15/02/2026	440	565	232	785	847	525
16/02/2026	457	569	225	760	869	526
17/02/2026	431	522	194	765	839	528
18/02/2026	420	500	222	795	1034	529
19/02/2026	440	576	345	752	885	680
20/02/2026	417	456	368	924	1062	742
21/02/2026	379	504	294	854	920	791
22/02/2026	336	371	293	836	899	780
23/02/2026	386	466	289	847	927	766
24/02/2026	396	423	366	806	882	739
25/02/2026	395	424	363	770	1032	720
26/02/2026	392	428	331	721	949	673
27/02/2026	374	487	300	718	1008	626
28/02/2026	368	428	296	739	916	616

Unit 2 Boiler Continuous Emission Monitoring Summary

EPA Identification no. 4 - Air emissions monitoring, Boiler 2 stack discharge to air
Unit 2 offline 1-16 February 2026

	NOx			SO_2		
	mg/Nm³ (7% O_2)			mg/Nm³ (7% O_2)		
	Daily Ave	Daily Max Hourly Average	Daily Min Hourly Average	Daily Ave	Daily Max Hourly Average	Daily Min Hourly Average
01/02/2026	-	-	-	-	-	-
02/02/2026	-	-	-	-	-	-
03/02/2026	-	-	-	-	-	-
04/02/2026	-	-	-	-	-	-
05/02/2026	-	-	-	-	-	-
06/02/2026	-	-	-	-	-	-
07/02/2026	-	-	-	-	-	-
08/02/2026	-	-	-	-	-	-
09/02/2026	-	-	-	-	-	-
10/02/2026	-	-	-	-	-	-
11/02/2026	-	-	-	-	-	-
12/02/2026	-	-	-	-	-	-
13/02/2026	-	-	-	-	-	-
14/02/2026	-	-	-	-	-	-
15/02/2026	-	-	-	-	-	-
16/02/2026	-	-	-	-	-	-
17/02/2026	366	487	307	454	504	391
18/02/2026	345	437	285	479	672	414
19/02/2026	355	541	297	458	644	395
20/02/2026	350	434	272	553	793	393
21/02/2026	416	461	335	512	712	468
22/02/2026	413	462	357	657	728	497
23/02/2026	420	448	376	704	752	686
24/02/2026	349	399	305	572	706	489
25/02/2026	339	463	310	507	642	474
26/02/2026	335	457	285	488	642	462
27/02/2026	324	406	270	501	641	438
28/02/2026	335	453	304	495	674	427

Unit 3 Boiler Continuous Emission Monitoring Summary

EPA Identification no. 5 - Air emissions monitoring, Boiler 3 stack discharge to air

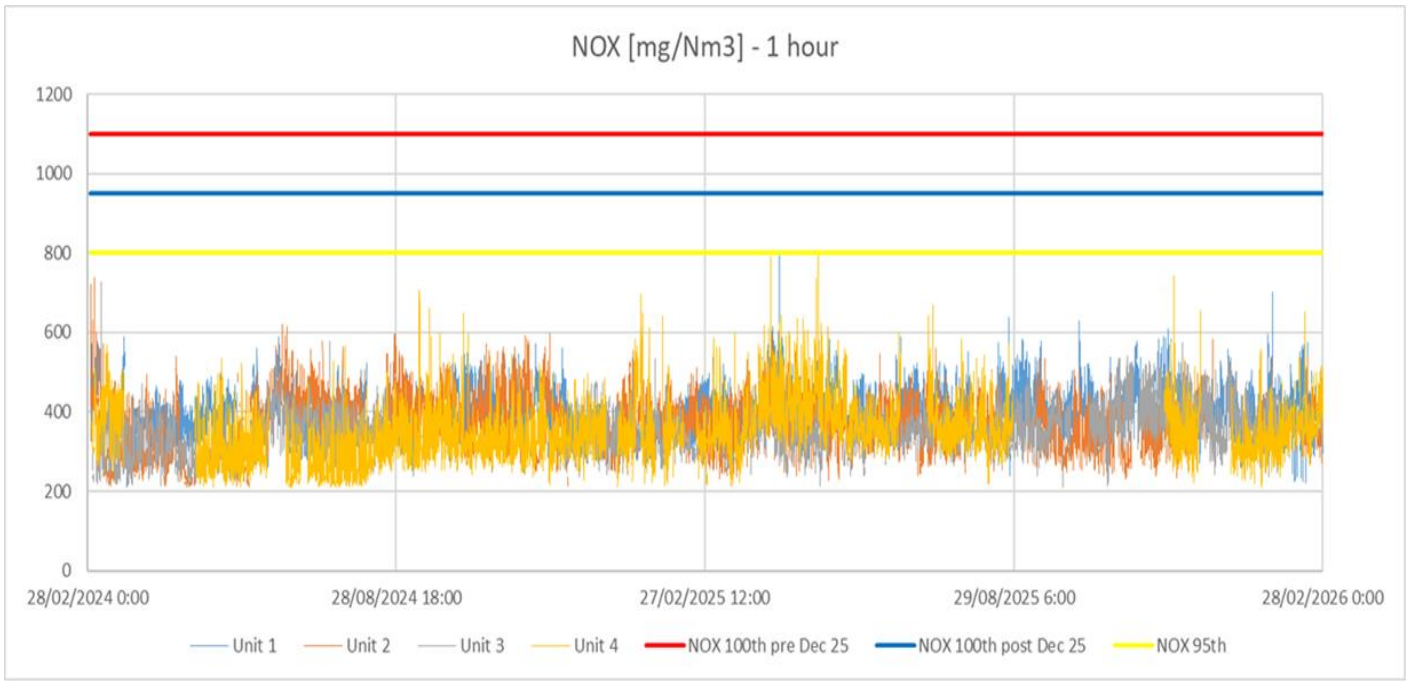
	NOx			SO_2		
	mg/Nm^3 (7% O_2)			mg/Nm^3 (7% O_2)		
	Daily Ave	Daily Max Hourly Average	Daily Min Hourly Average	Daily Ave	Daily Max Hourly Average	Daily Min Hourly Average
01/02/2026	366	450	244	732	778	644
02/02/2026	389	437	314	773	809	674
03/02/2026	363	424	312	729	778	650
04/02/2026	397	441	327	749	808	642
05/02/2026	370	453	276	729	798	558
06/02/2026	377	416	326	750	799	604
07/02/2026	366	410	314	744	786	665
08/02/2026	365	408	286	726	760	628
09/02/2026	375	406	324	836	1002	669
10/02/2026	388	434	338	715	767	635
11/02/2026	369	401	310	720	750	618
12/02/2026	364	393	299	694	753	604
13/02/2026	374	394	335	719	745	620
14/02/2026	372	402	317	718	755	667
15/02/2026	365	407	324	792	833	709
16/02/2026	356	400	281	713	756	646
17/02/2026	371	461	331	769	800	723
18/02/2026	384	412	355	704	832	627
19/02/2026	385	422	347	643	698	563
20/02/2026	369	401	306	815	916	609
21/02/2026	358	397	288	790	839	644
22/02/2026	350	384	303	793	824	703
23/02/2026	355	396	308	773	805	706
24/02/2026	386	421	357	735	783	675
25/02/2026	402	469	341	721	745	627
26/02/2026	386	444	347	710	745	638
27/02/2026	372	424	301	712	759	648
28/02/2026	361	436	320	749	789	694

Unit 4 Boiler Continuous Emission Monitoring Summary -

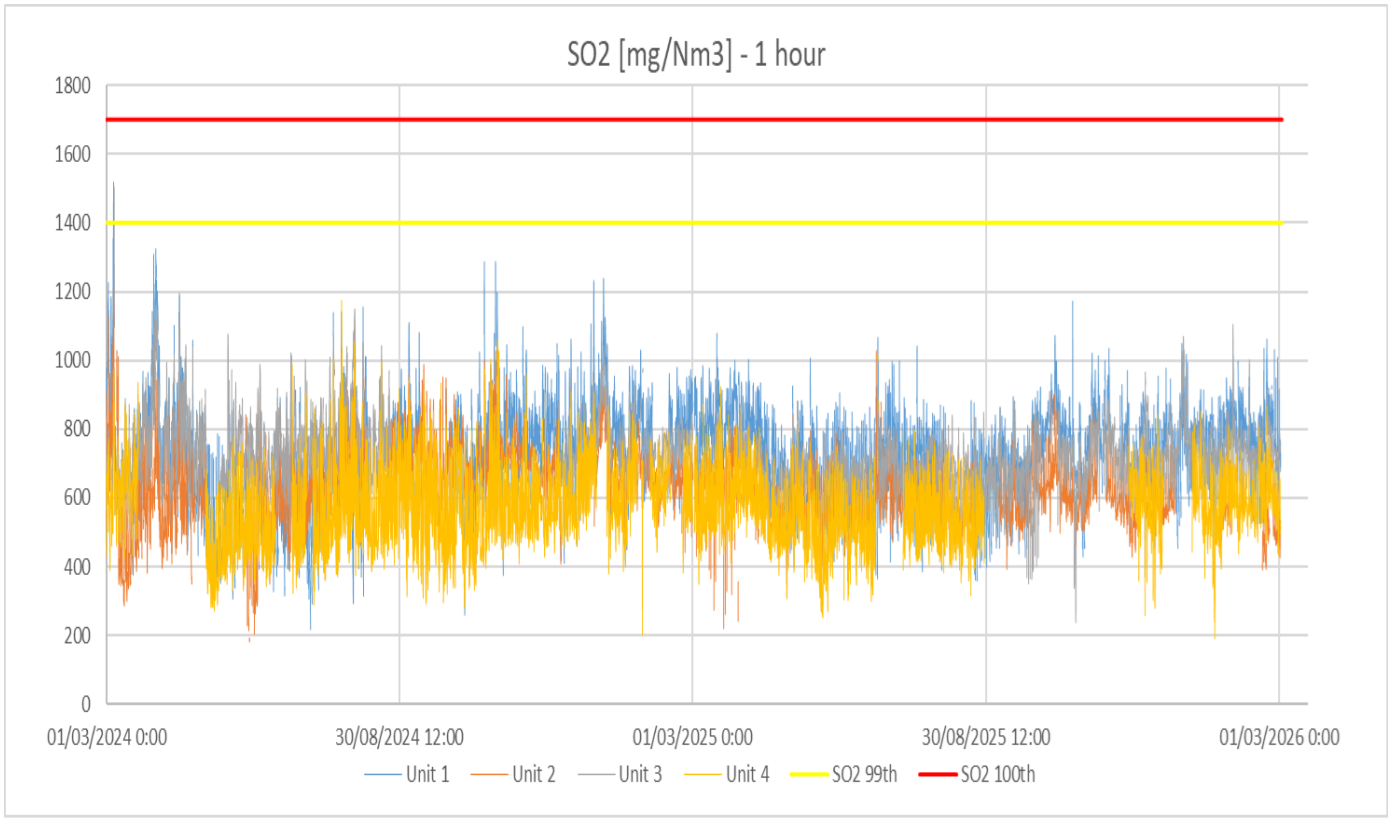
EPA Identification no. 6 - Air emissions monitoring, Boiler 4 stack discharge to air

	NOx			SO_2		
	mg/Nm^3 (7% O_2)			mg/Nm^3 (7% O_2)		
	Daily Ave	Daily Max Hourly Average	Daily Min Hourly Average	Daily Ave	Daily Max Hourly Average	Daily Min Hourly Average
01/02/2026	305	369	253	611	726	543
02/02/2026	313	428	235	557	657	438
03/02/2026	320	386	259	560	697	475
04/02/2026	378	479	263	625	738	534
05/02/2026	340	413	273	583	678	498
06/02/2026	359	432	308	577	675	533
07/02/2026	357	440	292	606	670	560
08/02/2026	344	407	292	546	583	489
09/02/2026	358	432	306	603	689	549
10/02/2026	372	416	344	553	604	511
11/02/2026	362	477	301	570	651	531
12/02/2026	357	419	304	570	711	486
13/02/2026	361	410	316	548	620	485
14/02/2026	414	538	323	551	682	472
15/02/2026	370	402	287	689	805	544
16/02/2026	362	436	287	623	774	514
17/02/2026	434	651	338	598	707	529
18/02/2026	387	511	321	630	754	529
19/02/2026	341	419	287	557	729	472
20/02/2026	313	417	264	634	866	473
21/02/2026	375	472	294	633	745	567
22/02/2026	386	494	327	656	772	568
23/02/2026	353	406	331	620	717	562
24/02/2026	382	500	334	585	708	547
25/02/2026	408	475	337	586	684	550
26/02/2026	431	503	354	569	671	503
27/02/2026	430	515	342	535	652	432
28/02/2026	448	539	370	599	708	495

Continuous Emission Monitoring Summary NOx Data



Continuous Emission Monitoring Summary SO_2 Data



Unit 1 Boiler Emission Test Results

EPA Identification no.3 – Air emissions monitoring, Boiler 1 stack discharge to air

Name	Frequency	Reading	Units	Licence Limit	Date
Chlorine	6 monthly	0.05	mg/m^3	4	10/12/2024
Fluorine	6 monthly	8	mg/m^3	30	10/12/2024
Hydrogen chloride	6 monthly	9.6	mg/m^3	50	10/12/2024
Solid Particles	Quarterly	4	mg/m^3	50	2/12/2025
Sulfuric acid mist and sulfur trioxide (as SO_3)	6 monthly	1	mg/m^3	100	10/12/2024
Volatile organic compounds as n-	6 monthly	<0.07	mg/m^3	8	10/12/2024
Cadmium	6 monthly	0.00048	mg/m^3	0.03	29/07/2025
Mercury	6 monthly	<0.00006	mg/m^3	0.03	29/07/2025
Type 1 and 2 substances in Aggregate	6 monthly	≤0.01	mg/m^3	0.60	29/07/2025

EPA Identification no. 7 - Air emissions monitoring, Boiler 1 Exhaust Duct A

Name	Frequency	Reading	Units	Licence Limit	Date
Flow Rate	6 monthly	240	m^3/sec	-	2/12/2025
Moisture	6 monthly	5.6	%	-	2/12/2025
Oxygen	6 monthly	9.6	%	-	2/12/2025
Solid Particles	Quarterly	5.9	mg/m^3	-	2/12/2025
Temperature	6 monthly	121	Deg C	-	2/12/2025
Carbon dioxide	6 monthly	11	%	-	2/12/2025
Chlorine	6 monthly	0.110	mg/m^3	-	2/12/2025
Fluorine	6 monthly	12.0	mg/m^3	-	2/12/2025
Hydrogen chloride	6 monthly	18	mg/m^3	-	2/12/2025
Sulfuric acid mist and sulfur trioxide (as SO_3)	6 monthly	2.2	mg/m^3	-	2/12/2025
Volatile organic compounds as n-	6 monthly	0.120	mg/m^3	-	2/12/2025
Cadmium	6 monthly	0.0008	mg/m^3	-	29/07/2025
Mercury	6 monthly	<0.00005	mg/m^3	-	29/07/2025
Type 1 and Type 2 substances in	6 monthly	<0.015	mg/m^3	-	29/07/2025

EPA Identification no. 8 - Air emissions monitoring, Boiler 1 Exhaust Duct B

Name	Frequency	Reading	Units	Licence Limit	Date
Flow Rate		280	m^3/sec	-	2/12/2025
Moisture		4.3	%	-	2/12/2025
Oxygen		9.2	%	-	2/12/2025
Solid Particles	Quarterly	2.2	mg/m^3	-	2/12/2025
Temperature		108	Deg C	-	2/12/2025
Cadmium	6 monthly	0.000065	mg/m^3	-	26/07/2025
Mercury	6 monthly	<0.00007	mg/m^3	-	26/07/2025
Type 1 and Type 2 substances in Aggregate	6 monthly	≤0.014	mg/m^3	-	26/07/2025

Unit 2 Boiler Emission Test Results

EPA Identification no.4 – Air emissions monitoring, Boiler 2 stack discharge to air

Name	Frequency	Reading	Units	Licence Limit	Date
Chlorine	6 monthly	<0.02	mg/m^3	4	9/01/2025
Fluorine	6 monthly	8.5	mg/m^3	30	9/01/2025
Hydrogen chloride	6 monthly	6.2	mg/m^3	50	9/01/2025
Solid Particles	Quarterly	8	mg/m^3	50	3/12/2025
Sulfuric acid mist and sulfur trioxide (as SO_3)	6 monthly	2.7	mg/m^3	100	9/01/2025
Volatile organic compounds as n-	6 monthly	<0.1	mg/m^3	8	9/01/2025
Cadmium	6 monthly	0.00027	mg/m^3	0.03	30/07/2025
Mercury	6 monthly	0.00008	mg/m^3	0.03	30/07/2025
Type 1 and 2 substances in Aggregate	6 monthly	<0.03	mg/m^3	0.60	30/07/2025

EPA Identification no. 9 - Air emissions monitoring, Boiler 2 Exhaust Duct A

Name	Frequency	Reading	Units	Licence Limit	Date
Flow Rate	6 monthly	240	m^3/sec	-	3/12/2025
Moisture	6 monthly	5.0	%	-	3/12/2025
Oxygen	6 monthly	8	%	-	3/12/2025
Solid Particles	Quarterly	14	mg/m^3	-	3/12/2025
Temperature	6 monthly	116	Deg C	-	3/12/2025
Carbon dioxide	6 monthly	11.8	%	-	3/12/2025
Chlorine	6 monthly	0.035	mg/m^3	-	3/12/2025
Fluorine	6 monthly	8.8	mg/m^3	-	3/12/2025
Hydrogen chloride	6 monthly	16	mg/m^3	-	3/12/2025
Sulfuric acid mist and sulfur trioxide (as SO_3)	6 monthly	2.5	mg/m^3	-	3/12/2025
Volatile organic compounds as n-	6 monthly	0.13	mg/m^3	-	3/12/2025
Cadmium	6 monthly	0.00017	mg/m^3	-	30/07/2025
Mercury	6 monthly	0.00011	mg/m^3	-	30/07/2025
Type 1 and Type 2 substances in	6 monthly	<0.033	mg/m^3	-	30/07/2025

EPA Identification no. 10 - Air emissions monitoring, Boiler 2 Exhaust Duct B

Name	Frequency	Reading	Units	Licence Limit	Date
Flow Rate		240	m^3/sec	-	3/12/2025
Moisture		5.0	%	-	3/12/2025
Oxygen		8.7	%	-	3/12/2025
Solid Particles	Quarterly	2.5	mg/m^3	-	3/12/2025
Temperature		108	Deg C	-	3/12/2025
Cadmium	6 monthly	0.00035	mg/m^3	-	30/07/2025
Mercury	6 monthly	0.000045	mg/m^3	-	30/07/2025
Type 1 and Type 2 substances in Aggregate	6 monthly	<0.018	mg/m^3	-	30/07/2025

Unit 3 Boiler Emission Test Results					
EPA Identification No 5 – Air Emissions monitoring, Boiler 3 stack discharge to air					
Name	**Frequency**	**Reading**	**Units**	**Licence Limit**	**Date**
Chlorine	6 monthly	0.046	mg/m^3	4	11/12/2024
Fluorine	6 monthly	9.7	mg/m^3	30	11/12/2024
Hydrogen chloride	6 monthly	15	mg/m^3	50	11/12/2024
Solid Particles	Quarterly	1	mg/m^3	50	4/12/2025
Sulfuric acid mist and sulfur trioxide (as SO_3)	6 monthly	1.2	mg/m^3	100	11/12/2024
Volatile organic compounds as n-propane equivalent	6 monthly	<0.08	mg/m^3	8	11/12/2024
Cadmium	6 monthly	0.00027	mg/m^3	0.03	31/07/2025
Mercury	6 monthly	<0.00004	mg/m^3	0.03	31/07/2025
Type 1 and 2 substances in Aggregate	6 monthly	≤0.01	mg/m^3	0.60	31/07/2025

EPA Identification No 11 – Air Emissions monitoring, Boiler 3 Exhaust Duct A					
Name	**Frequency**	**Reading**	**Units**	**Licence Limit**	**Date**
Flow Rate	6 monthly	240	m^3/sec	-	4/12/2025
Moisture	6 monthly	6	%	-	4/12/2025
Oxygen	6 Monthly	9.5	%	-	4/12/2025
Solid Particles	Quarterly	1.4	mg/m^3	-	4/12/2025
Temperature	6 monthly	115	Deg C	-	4/12/2025
Carbon dioxide	6 monthly	11.7	%	-	4/12/2025
Chlorine	6 monthly	0.012	mg/m^3	-	4/12/2025
Fluorine	6 monthly	6.7	mg/m^3	-	4/12/2025
Hydrogen chloride	6 monthly	16	mg/m^3	-	4/12/2025
Sulfuric acid mist and sulfur trioxide (as SO_3)	6 monthly	1.7	mg/m^3	-	4/12/2025
Volatile organic compounds as n-propane equivalent	6 monthly	1.7	mg/m^3	-	4/12/2025
Cadmium	6 monthly	0.0004	mg/m^3	-	31/07/2025
Mercury	6 monthly	<0.00004	mg/m^3	-	31/07/2025
Type 1 and Type 2 substances in Aggregate	6 monthly	<0.012	mg/m^3	-	31/07/2025

EPA Identification No 12 – Air Emissions monitoring, Boiler 3 Exhaust Duct B					
Name	**Frequency**	**Reading**	**Units**	**Licence Limit**	**Date**
Flow Rate		240	m^3/sec	-	4/12/2025
Moisture		5.6	%	-	4/12/2025
Oxygen		8.6	%	-	4/12/2025
Solid Particles	Quarterly	1.4	mg/m^3	-	4/12/2025
Temperature		112	Deg C	-	4/12/2025
Cadmium	6 monthly	0.00012	mg/m^3	-	31/07/2025
Mercury	6 monthly	<0.00005	mg/m^3	-	31/07/2025
Type 1 and Type 2 substances in Aggregate	6 monthly	≤0.013	mg/m^3	-	31/07/2025

Unit 4 Boiler Emission Test Results

EPA Identification no.6 – Air emissions monitoring, Boiler 4 stack discharge to air

Name	Frequency	Reading	Units	Licence Limit	Date
Chlorine	6 monthly	<0.01	mg/m^3	4	12-13/12/2024
Fluorine	6 monthly	11	mg/m^3	30	12-13/12/2024
Hydrogen chloride	6 monthly	8.5	mg/m^3	50	12-13/12/2024
Solid Particles	Quarterly	3	mg/m^3	50	01/08/2025
Sulfuric acid mist and sulfur trioxide (as SO_3)	6 monthly	2.1	mg/m^3	100	12-13/12/2024
Volatile organic compounds as n-	6 monthly	0.11	mg/m^3	8	12-13/12/2024
Cadmium	6 monthly	0.00009	mg/m^3	0.03	01/08/2025
Mercury	6 monthly	<0.00006	mg/m^3	0.03	01/08/2025
Type 1 and 2 substances in Aggregate	6 monthly	≤0.02	mg/m^3	0.60	01/08/2025

EPA Identification no. 13 - Air emissions monitoring, Boiler 4Exhaust Duct A

Name	Frequency	Reading	Units	Licence Limit	Date
Flow Rate	6 monthly	250	m^3/sec	-	05/12/2025
Moisture	6 monthly	4.9	%	-	05/12/2025
Oxygen	6 monthly	10.3	%	-	05/12/2025
Solid Particles	Quarterly	1.0	mg/m^3	-	05/12/2025
Temperature	6 monthly	118	Deg C	-	05/12/2025
Carbon dioxide	6 monthly	9.8	%	-	05/12/2025
Chlorine	6 monthly	0.077	mg/m^3	-	05/12/2025
Fluorine	6 monthly	7.4	mg/m^3	-	05/12/2025
Hydrogen chloride	6 monthly	10	mg/m^3	-	05/12/2025
Sulfuric acid mist and sulfur trioxide (as SO_3)	6 monthly	0.92	mg/m^3	-	05/12/2025
Volatile organic compounds as n-	6 monthly	0.15	mg/m^3	-	05/12/2025
Cadmium	6 monthly	0.000087	mg/m^3	-	01/08/2025
Mercury	6 monthly	<0.00007	mg/m^3	-	01/08/2025
Type 1 and Type 2 substances in	6 monthly	<0.019	mg/m^3	-	01/08/2025

EPA Identification no. 14 - Air emissions monitoring, Boiler 4 Exhaust Duct B

Name	Frequency	Reading	Units	Licence Limit	Date
Flow Rate		270	m^3/sec	-	05/12/2025
Moisture		4.4	%	-	05/12/2025
Oxygen		10.3	%	-	05/12/2025
Solid Particles	Quarterly	4.6	mg/m^3	-	05/12/2025
Temperature		120	Deg C	-	05/12/2025
Cadmium	6 monthly	0.0001	mg/m^3	-	01/08/2025
Mercury	6 monthly	<0.00005	mg/m^3	-	01/08/2025
Type 1 and Type 2 substances in Aggregate	6 monthly	≤0.019	mg/m^3	-	01/08/2025

Water Quality - Lake Monitoring LM10

EPA Identification no. 27 - The waters of Lake Macquarie located midway between cooling water inlet and Hungary Point

		Field Water Quality Recordings					
Air Temp	**Depth**	**Water Temp**	**pH**	**Salinity**	**Dissolved Oxygen**		**Sechi**
^{0}C	m	^{0}C	pH unit	ppt	%	mg/L	m
25.76	0.5	26.24	8.13	33.59	80.4	5.30	3.25

	Laboratory Analysis			
Name	**Reading**	**Units**	**Licence Limit**	**Date**
Aluminium	0.038	mg/L	-	5/02/26
Ammonia	<0.005	mg/L	-	5/02/26
Arsenic III	<0.0080	mg/L	-	5/02/26
Arsenic V	<0.0080	mg/L	-	5/02/26
Cadmium	<0.0002	mg/L	-	5/02/26
Chromium (Trivalent)	<0.001	mg/L	-	5/02/26
Chromium (VI) Compounds	<0.001	mg/L	-	5/02/26
Copper	0.001	mg/L	-	5/02/26
Iron	0.059	mg/L	-	5/02/26
Lead	<0.0002	mg/L	-	5/02/26
Manganese	0.0064	mg/L	-	5/02/26
Nickel	<0.0005	mg/L	-	5/02/26
pH	8.05	pH units	-	5/02/26
Selenium	<0.002	mg/L	-	5/02/26
Total Suspended Solids	<5	mg/L	-	5/02/26
Vanadium	0.0023	mg/L	-	5/02/26
Zinc	<0.005	mg/L	-	5/02/26

Water Quality - Lake Monitoring LM12

EPA Identification no. 29 - The waters of Lake Macquarie located at the Eraring/Vales Point mixing zone off Fishery Point

	Field Water Quality Recordings						
Air Temp	**Depth**	**Water Temp**	**pH**	**Salinity**	**Dissolved Oxygen**		**Secchi**
^{0}C	m	^{0}C	pH unit	ppt	%	mg/L	m
28.01	0.5	26.03	8.14	30.40	87	5.81	4.25

Laboratory Analysis				
Name	Reading	**Units**	**Licence**	**Date**
Aluminium	0.016	mg/L	-	5/02/26
Ammonia	<0.005	mg/L	-	5/02/26
Arsenic III	<0.0080	mg/L	-	5/02/26
Arsenic V	<0.0080	mg/L	-	5/02/26
Cadmium	<0.0002	mg/L	-	5/02/26
Chromium (Trivalent)	<0.001	mg/L	-	5/02/26
Chromium (VI) Compounds	<0.001	mg/L	-	5/02/26
Copper	0.001	mg/L	-	5/02/26
Iron	0.025	mg/L	-	5/02/26
Lead	<0.0002	mg/L	-	5/02/26
Manganese	0.0048	mg/L	-	5/02/26
Nickel	<0.0005	mg/L	-	5/02/26
pH	8.13	pH units	-	5/02/26
Selenium	<0.002	mg/L	-	5/02/26
Total Suspended Solids	<5	mg/L	-	5/02/26
Vanadium	0.0023	mg/L	-	5/02/26
Zinc	<0.005	mg/L	-	5/02/26

Water Quality - Lake Monitoring LM4

EPA Identification no. 30 - The northern waters of Lake Macquarie east off Lake Macquarie Yacht Club

	Field Water Quality Recordings						
Air Temp	**Depth**	**Water Temp**	**pH**	**Salinity**	**Dissolved Oxygen**		**Secchi**
^{0}C	m	^{0}C	pH unit	ppt	%	mg/L	m
23.43	0.5	24.38	8.00	33.80	92.2	6.35	4.25

Laboratory Analysis

Name	Reading	Units	Licence	Date
Aluminium	0.01	mg/L	-	5/02/26
Ammonia	<0.005	mg/L	-	5/02/26
Arsenic III	<0.0080	mg/L	-	5/02/26
Arsenic V	<0.0080	mg/L	-	5/02/26
Cadmium	<0.0002	mg/L	-	5/02/26
Chromium (Trivalent)	<0.001	mg/L	-	5/02/26
Chromium (VI) Compounds	<0.001	mg/L	-	5/02/26
Copper	<0.001	mg/L	-	5/02/26
Iron	0.007	mg/L	-	5/02/26
Lead	<0.0002	mg/L	-	5/02/26
Manganese	0.0048	mg/L	-	5/02/26
Nickel	<0.0005	mg/L	-	5/02/26
pH	8.13	pH units	-	5/02/26
Selenium	<0.002	mg/L	-	5/02/26
Total Suspended Solids	5	mg/L	-	5/02/26
Vanadium	0.0021	mg/L	-	5/02/26
Zinc	<0.005	mg/L	-	5/02/26

Water Quality - Lake Monitoring LM7

EPA Identification no. 28 - The waters of Lake Macquarie located off old Wangi power station inlet point in Myuna Bay

	Field Water Quality Recordings						
Air Temp	**Depth**	**Water Temp**	**pH**	**Salinity**	**Dissolved Oxygen**		**Secchi**
^{0}C	m	^{0}C	pH unit	ppt	%	mg/L	m
23.77	0.5	28.52	8.08	33.79	89.1	5.71	3.25

Laboratory Analysis

Name	Reading	Units	Licence	Date
Aluminium	0.038	mg/L	-	5/02/26
Ammonia	<0.005	mg/L	-	5/02/26
Arsenic III	<0.0080	mg/L	-	5/02/26
Arsenic V	<0.0080	mg/L	-	5/02/26
Cadmium	<0.0002	mg/L	-	5/02/26
Chromium (Trivalent)	<0.001	mg/L	-	5/02/26
Chromium (VI) Compounds	<0.001	mg/L	-	5/02/26
Copper	0.001	mg/L	-	5/02/26
Iron	0.05	mg/L	-	5/02/26
Lead	<0.0002	mg/L	-	5/02/26
Manganese	0.0068	mg/L	-	5/02/26
Nickel	<0.0005	mg/L	-	5/02/26
pH	8.02	pH units	-	5/02/26
Selenium	<0.002	mg/L	-	5/02/26
Total Suspended Solids	<5	mg/L	-	5/02/26
Vanadium	0.0025	mg/L	-	5/02/26
Zinc	<0.005	mg/L	-	5/02/26

Eraring Ash Dam Water Quality Monitoring

EPA Identification no. 22 – Discharge point below siphon pond weir at Ash Dam

Name	Reading	Units	Licence Limit	Date
Aluminium	0.222	mg/L	-	5/02/26
Ammonia	0.82	mg/L	-	5/02/26
Arsenic III	<0.0005	mg/L	-	5/02/26
Arsenic V	0.0096	mg/L	-	5/02/26
Cadmium	0.00005	mg/L	-	5/02/26
Chromium (Trivalent)	<0.001	mg/L	-	5/02/26
Chromium (VI) Compounds	<0.01	mg/L	-	5/02/26
Copper	0.0035	mg/L	-	5/02/26
Iron	0.177	mg/L	-	5/02/26
Lead	0.0002	mg/L	-	5/02/26
Manganese	0.0771	mg/L	-	5/02/26
Nickel	0.0028	mg/L	-	5/02/26
Nitrite and Nitrate as N	4.12	mg/L	-	5/02/26
Nitrogen	5.6	mg/L	-	5/02/26
pH	7.32	pH units	-	5/02/26
Phosphorus as P	0.42	mg/L	-	5/02/26
Reactive Phosphorus as P	0.37	mg/L	-	5/02/26
Selenium	0.0403	mg/L	-	5/02/26
Total Kjeldahl Nitrogen	1.5	mg/L	-	5/02/26
Total Suspended Solids	47	mg/L	-	5/02/26
Vanadium	0.118	mg/L	-	5/02/26
Zinc	0.004	mg/L	-	5/02/26

Eraring Cooling Water Inlet Canal

EPA Identification no. 31 - Inlet canal of the cooling water intake from Lake Macquarie

Name	Reading	Units	Licence Limit	Date
Aluminium	0.038	mg/L	-	5/02/26
Ammonia	0.010	mg/L	-	5/02/26
Arsenic III	<0.0080	mg/L	-	5/02/26
Arsenic V	<0.0080	mg/L	-	5/02/26
Cadmium	<0.0002	mg/L	-	5/02/26
Chromium (Trivalent)	<0.001	mg/L	-	5/02/26
Chromium (VI) Compounds	<0.01	mg/L	-	5/02/26
Copper	0.0005	mg/L	-	5/02/26
Iron	0.068	mg/L	-	5/02/26
Lead	<0.0002	mg/L	-	5/02/26
Manganese	0.0076	mg/L	-	5/02/26
Nickel	<0.0005	mg/L	-	5/02/26
pH	7.96	pH units	-	5/02/26
Selenium	<0.001	mg/L	-	5/02/26
Total Suspended Solids	80	mg/L	-	5/02/26
Vanadium	0.0025	mg/L	-	5/02/26
Zinc	<0.005	mg/L	-	5/02/26
Dissolved Oxygen	6.09	mg/L	-	5/02/26
Field Temperature	25.0	degC	-	5/02/26
Salinity	35.08	ppt	-	5/02/26
Secchi Disk	2.75	m	-	5/02/26
Temperature – Average	27.29	deg C	-	February 26
Temperature – Minimum	25.01	deg C	-	February 26
Temperature - Maximum	29.44	deg C	-	February 26

Eraring Cooling Water Outlet Canal

EPA Identification no. 36 - Cooling water outlet canal to Myuna Bay

Name	Reading	Units	Licence Limit	Date
Copper	0.0010	mg/L	0.005	5/02/26
Iron	0.097	mg/L	0.3	5/02/26
Selenium	<0.001	mg/L	0.002	5/02/26

Eraring Cooling Water Outlet Canal

EPA Identification no. 21 - Cooling water outlet canal to Myuna Bay

Name	Reading	Units	96.5% Limit	99.8% Limit	100% Limit	Date
Temperature – Average	33.13	deg C	35.5	37.5	38.5	February 26
Temperature – Minimum	28.23	deg C				February 26
Temperature - Maximum	35.92	deg C				February 26

Eraring Cooling Water Outlet Canal

EPA Identification no. 25 – Discharge from Ash Dam

Name	Reading	Units	Licence Limit	Date
Minimum Daily Discharge from Ash Dam	1.13	ML		February 26
Average Daily Discharge from Ash Dam	5.25	ML		February 26
Maximum Daily Discharge from Ash Dam	24.13	ML	150	February 26
Monthly Discharge from Ash Dam	146.90	ML	-	February 26

Emergency Discharge – Toe Drain Pond

EPA Identification no. 24 - Emergency discharge to toe drain collection pond.

Toe Drain Pond did not discharge in the month, background sampling only

Name	Reading	Units	Licence Limit	Date
Aluminium	0.022	mg/L	-	5/02/26
Ammonia	3.12	mg/L	-	5/02/26
Arsenic III	0.0022	mg/L	-	5/02/26
Arsenic V	<0.0005	mg/L	-	5/02/26
Cadmium	<0.00005	mg/L	-	5/02/26
Chromium (Trivalent)	<0.001	mg/L	-	5/02/26
Chromium (VI) Compounds	<0.01	mg/L	-	5/02/26
Copper	<0.0005	mg/L	-	5/02/26
Iron	4.91	mg/L	-	5/02/26
Lead	<0.0001	mg/L	-	5/02/26
Manganese	0.863	mg/L	-	5/02/26
Nickel	0.0021	mg/L	-	5/02/26
Nitrite and Nitrate as N	0.094	mg/L	-	5/02/26
Nitrogen	3.42	mg/L	-	5/02/26
pH	7.02	pH units	6-9.5	5/02/26
Phosphorus as P	0.261	mg/L	-	5/02/26
Reactive Phosphorus as P	0.030	mg/L	-	5/02/26
Selenium	0.0003	mg/L	-	5/02/26
Total Kjeldahl Nitrogen	3.33	mg/L	-	5/02/26
Total Suspended Solids	32	mg/L	50	5/02/26
Vanadium	0.0003	mg/L	-	5/02/26
Zinc	0.002	mg/L	-	5/02/26

EPA Identification no. 23 - Emergency discharge from ash dam outlet at culvert

MR217 did not discharge in the month and no background sample taken due to insufficient water.

Name	Reading	Units	Licence Limit	Date
Aluminium		mg/L	-	5/02/26
Ammonia		mg/L	-	5/02/26
Arsenic III		mg/L	-	5/02/26
Arsenic V		mg/L	-	5/02/26
Cadmium		mg/L	-	5/02/26
Chromium (Trivalent)		mg/L	-	5/02/26
Chromium (VI) Compounds		mg/L	-	5/02/26
Copper		mg/L	-	5/02/26
Iron		mg/L	-	5/02/26
Lead		mg/L	-	5/02/26
Manganese		mg/L	-	5/02/26
Nickel		mg/L	-	5/02/26
Nitrite and Nitrate as N		mg/L	-	5/02/26
Nitrogen		mg/L	-	5/02/26
pH		pH units	6-9.5	5/02/26
Phosphorus as P		mg/L	-	5/02/26
Reactive Phosphorus as P		mg/L	-	5/02/26
Selenium		mg/L	-	5/02/26
Total Kjeldahl Nitrogen		mg/L	-	5/02/26
Total Suspended Solids		mg/L	50	5/02/26
Vanadium		mg/L	-	5/02/26
Zinc		mg/L	-	5/02/26

Groundwater Monitoring
Groundwater Well – MW01

EPA Identification no. 32 – Groundwater Monitoring Well 01

Name	Reading	Units	Licence Limit	Date
Aluminium	0.135	mg/L	-	2/12/25
Ammonia	0.02	mg/L	-	2/12/25
Arsenic (III)	<0.0005	mg/L	-	2/12/25
Arsenic (V)	<0.0005	mg/L	-	2/12/25
Cadmium	<0.00005	mg/L	-	2/12/25
Calcium	2	mg/L	-	2/12/25
Chromium (trivalent)	<0.01	mg/L	-	2/12/25
Chromium (VI) compounds	<0.01	mg/L	-	2/12/25
Copper	0.0015	mg/L	-	2/12/25
Electrical Conductivity	457	uS/cm	-	2/12/25
Iron	0.679	mg/L	-	2/12/25
Lead	0.0008	mg/L	-	2/12/25
Magnesium	5	mg/L	-	2/12/25
Manganese	0.142	mg/L	-	2/12/25
Nickel	0.005	mg/L	-	2/12/25
pH	5.42	pH units	-	2/12/25
Potassium	4	mg/L	-	2/12/25
Selenium	<0.0002	mg/L	-	2/12/25
Sodium	74	mg/L	-	2/12/25
Standing Water Level	7.02	m	-	2/12/25
Vanadium	0.0003	mg/L	-	2/12/25
Zinc	0.027	mg/L	-	2/12/25

Groundwater Monitoring
Groundwater Well – MW02

EPA Identification no. 33 – Groundwater Monitoring Well 02

Name	Reading	Units	Licence Limit	Date
Aluminium	1.420	mg/L	-	2/12/25
Ammonia	5.03	mg/L	-	2/12/25
Arsenic (III)	<0.008	mg/L	-	2/12/25
Arsenic (V)	<0.008	mg/L	-	2/12/25
Cadmium	0.00012	mg/L	-	2/12/25
Calcium	253	mg/L	-	2/12/25
Chromium (trivalent)	<0.01	mg/L	-	2/12/25
Chromium (VI) compounds	<0.01	mg/L	-	2/12/25
Copper	0.0029	mg/L	-	2/12/25
Electrical Conductivity	17900	uS/cm	-	2/12/25
Iron	16.000	mg/L	-	2/12/25
Lead	0.0072	mg/L	-	2/12/25
Magnesium	306	mg/L	-	2/12/25
Manganese	0.601	mg/L	-	2/12/25
Nickel	0.0027	mg/L	-	2/12/25
pH	7.36	pH units	-	2/12/25
Potassium	134	mg/L	-	2/12/25
Selenium	0.0012	mg/L	-	2/12/25
Sodium	3520	mg/L	-	2/12/25
Standing Water Level	5.46	m	-	2/12/25
Vanadium	0.0099	mg/L	-	2/12/25
Zinc	0.047	mg/L	-	2/12/25

Groundwater Monitoring
Groundwater Well – MW06

EPA Identification no. 34 – Groundwater Monitoring Well 06

Name	Reading	Units	Licence Limit	Date
Aluminium	0.022	mg/L	-	1/12/25
Ammonia	3.14	mg/L	-	1/12/25
Arsenic (III)	0.0042	mg/L	-	1/12/25
Arsenic (V)	0.0011	mg/L	-	1/12/25
Cadmium	<0.0002	mg/L	-	1/12/25
Calcium	423	mg/L	-	1/12/25
Chromium (trivalent)	<0.01	mg/L	-	1/12/25
Chromium (VI) compounds	<0.01	mg/L	-	1/12/25
Copper	<0.001	mg/L	-	1/12/25
Electrical Conductivity	18400	uS/cm	-	1/12/25
Iron	9.310	mg/L	-	1/12/25
Lead	0.0005	mg/L	-	1/12/25
Magnesium	240	mg/L	-	1/12/25
Manganese	0.394	mg/L	-	1/12/25
Nickel	0.0012	mg/L	-	1/12/25
pH	6.88	pH units	-	1/12/25
Potassium	115	mg/L	-	1/12/25
Selenium	<0.002	mg/L	-	1/12/25
Sodium	3260	mg/L	-	1/12/25
Standing Water Level	2.51	m	-	1/12/25
Vanadium	0.001	mg/L	-	1/12/25
Zinc	0.010	mg/L	-	1/12/25

Groundwater Monitoring
Groundwater Well – EGM/D26

EPA Identification no. 35 – Groundwater Monitoring Well D26
Groundwater well dry at time of sampling

Name	Reading	Units	Licence Limit	Date
Aluminium		mg/L	-	2/12/25
Ammonia		mg/L	-	2/12/25
Arsenic (III)		mg/L	-	2/12/25
Arsenic (V)		mg/L	-	2/12/25
Cadmium		mg/L	-	2/12/25
Calcium		mg/L	-	2/12/25
Chromium (trivalent)		mg/L	-	2/12/25
Chromium (VI) compounds		mg/L	-	2/12/25
Copper		mg/L	-	2/12/25
Electrical Conductivity		uS/cm	-	2/12/25
Iron		mg/L	-	2/12/25
Lead		mg/L	-	2/12/25
Magnesium		mg/L	-	2/12/25
Manganese		mg/L	-	2/12/25
Nickel		mg/L	-	2/12/25
pH		pH units	-	2/12/25
Potassium		mg/L	-	2/12/25
Selenium		mg/L	-	2/12/25
Sodium		mg/L	-	2/12/25
Standing Water Level		m	-	2/12/25
Vanadium		mg/L	-	2/12/25
Zinc		mg/L	-	2/12/25

Water Quality – Surface Water EBESS

EPA Identification no. 37 – Final discharge point from the water treatment plant
Sample Frequency – Daily during any discharge (not discharging, no samples collected).

Name	Min reading (mg/L)	Average reading (mg/L)	Maximum Reading (mg/L)	Project Criteria	Number of samples
Cadmium	-	-	-	-	0
Chromium (hexavalant)	-	-	-	-	0
Chromium (trivalent)	-	-	-	-	0
Copper	-	-	-	-	0
Manganese	-	-	-	-	0
Nickel	-	-	-	-	0
PFOS	-	-	-	0.13 ug/L	0
PFOA	-	-	-	220 ug/L	0
pH	-	-	-	6.5-9	0
Selenium	-	-	-	-	0
Total Suspended solids	-	-	-	50mg/L	0
Vanadium	-	-	-	-	0
Zinc	-	-	-	8 mg/L	0

Daily Volume Discharged		
Min	Ave	Max

EPA Identification no. 38 – Monitoring overflow point from the attenuation pond
Sample Frequency – Daily during any discharge (not discharging, no samples collected).

Name	Frequency	Reading	Project Criteria	Date
Cadmium	Daily during any discharge	-	-	
Chromium (hexavalant)	Daily during any discharge	-	-	
Chromium (trivalent)	Daily during any discharge	-	-	
Copper	Daily during any discharge	-	-	
Manganese	Daily during any discharge	-	-	
Nickel	Daily during any discharge	-	-	
PFOS	Daily during any discharge	-	0.13 ug/L	
PFOA	Daily during any discharge	-	220 ug/L	
pH	Daily during any discharge	-	6.5-9	
Selenium	Daily during any discharge	-	-	
Total Suspended solids	Daily during any discharge	-	50mg/L	
Vanadium	Daily during any discharge	-	-	
Zinc	Daily during any discharge	-	8 mg/L	

EPA Identification no. 39 – Monitoring overflow point from SW01A
Sample Frequency – Daily during any discharge (not discharging, no samples collected).

Name	Reading	Project Criteria	Date
Cadmium	-	-	
Chromium (hexavalant)	-	-	
Chromium (trivalent)	-	-	
Copper	-	-	
Manganese	-	-	
Nickel	-	-	
PFOS	-	0.13 ug/L	
PFOA	-	220 ug/L	
pH	-	6.5-9	
Selenium	-	-	
Total Suspended solids	-	50mg/L	
Vanadium	-	-	
Zinc	-	8 mg/L	

EPA Identification no. 40 – Monitoring overflow point from VAR03
Sample Frequency – Daily during any discharge (not discharging, no samples collected).

Name	Reading	Project Criteria	Date
Cadmium	-	-	
Chromium (hexavalant)	-	-	
Chromium (trivalent)	-	-	
Copper	-	-	
Manganese	-	-	
Nickel	-	-	
PFOS	-	0.13 ug/L	
PFOA	-	220 ug/L	
pH	-	6.5-9	
Selenium	-	-	
Total Suspended solids	-	50mg/L	
Vanadium	-	-	
Zinc	-	8 mg/L	

EPA Identification no. 41 – Monitoring from the attenuation Pond Discharge Pipe
Sample Frequency – Daily during any discharge (not discharging, no samples collected).

Name	Reading	Project Criteria	Date
Cadmium	-	-	
Chromium (hexavalant)	-	-	
Chromium (trivalent)	-	-	
Copper	-	-	
Manganese	-	-	
Nickel	-	-	
PFOS	-	0.13 ug/L	
PFOA	-	220 ug/L	
pH	-	6.5-9	
Selenium	-	-	
Total Suspended solids	-	50mg/L	
Vanadium	-	-	
Zinc	-	8 mg/L	

EPA Identification no. 42 – Monitoring from the Transgrid Outlet Pipe
Sample Frequency – Daily during any discharge (not discharging, no samples collected).

Name	Reading	Project Criteria	Date
Cadmium	-	-	
Chromium (hexavalant)	-	-	
Chromium (trivalent)	-	-	
Copper	-	-	
Manganese	-	-	
Nickel	-	-	
PFOS	-	0.13 ug/L	
PFOA	-	220 ug/L	
pH	-	6.5-9	
Selenium	-	-	
Total Suspended solids	-	50mg/L	
Vanadium	-	-	
Zinc	-	8 mg/L	