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

Environmental Monitoring Data April 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
1/04/2026	392	443	334	744	844	655
2/04/2026	399	444	351	870	976	673
3/04/2026	391	478	322	807	870	694
4/04/2026	387	441	312	813	1001	608
5/04/2026	388	415	343	783	855	570
6/04/2026	408	466	336	769	853	671
7/04/2026	410	486	344	932	1238	695
8/04/2026	446	527	343	882	973	786
9/04/2026	445	507	322	840	911	790
10/04/2026	394	467	346	886	951	810
11/04/2026	422	468	375	875	948	788
12/04/2026	404	435	372	881	946	747
13/04/2026	419	452	397	831	989	723
14/04/2026	396	453	355	824	895	708
15/04/2026	405	495	332	828	944	711
16/04/2026	360	415	310	794	845	661
17/04/2026	384	426	339	833	902	749
18/04/2026	379	415	317	860	1059	639
19/04/2026	377	407	334	740	850	575
20/04/2026	375	433	307	758	877	554
21/04/2026	386	465	337	711	856	537
22/04/2026	334	391	285	714	1035	600
23/04/2026	332	357	288	764	858	579
24/04/2026	335	382	289	661	766	570
25/04/2026	346	398	295	701	772	538
26/04/2026	370	421	314	795	960	641
27/04/2026	354	401	303	737	796	626
28/04/2026	328	350	287	785	894	634
29/04/2026	328	351	302	838	909	748
30/04/2026	314	343	295	785	927	685

Unit 2 Boiler Continuous Emission Monitoring Summary

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

	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
1/04/2026	291	385	212	528	684	464
2/04/2026	290	335	221	567	692	469
3/04/2026	282	325	225	555	652	525
4/04/2026	284	325	243	580	739	514
5/04/2026	282	345	224	572	682	520
6/04/2026	291	340	235	574	729	503
7/04/2026	281	334	205	591	626	547
8/04/2026	280	330	217	577	697	514
9/04/2026	267	351	222	546	721	509
10/04/2026	273	322	248	572	750	545
11/04/2026	328	370	269	548	753	498
12/04/2026	278	349	231	561	743	511
13/04/2026	296	378	237	530	713	432
14/04/2026	298	383	224	556	691	431
15/04/2026	273	335	225	554	752	480
16/04/2026	260	320	238	520	664	463
17/04/2026	301	362	244	548	693	483
18/04/2026	286	351	234	545	704	494
19/04/2026	328	374	282	493	608	414
20/04/2026	321	382	238	567	755	493
21/04/2026	301	388	226	475	630	382
22/04/2026	260	310	202	447	640	405
23/04/2026	257	349	220	517	705	445
24/04/2026	255	377	222	462	630	377
25/04/2026	238	314	221	482	642	407
26/04/2026	250	306	211	527	765	465
27/04/2026	269	344	231	511	677	446
28/04/2026	281	365	125	536	692	188
29/04/2026	313	362	234	554	753	518
30/04/2026	300	326	255	528	707	490

Unit 3 Boiler Continuous Emission Monitoring Summary

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

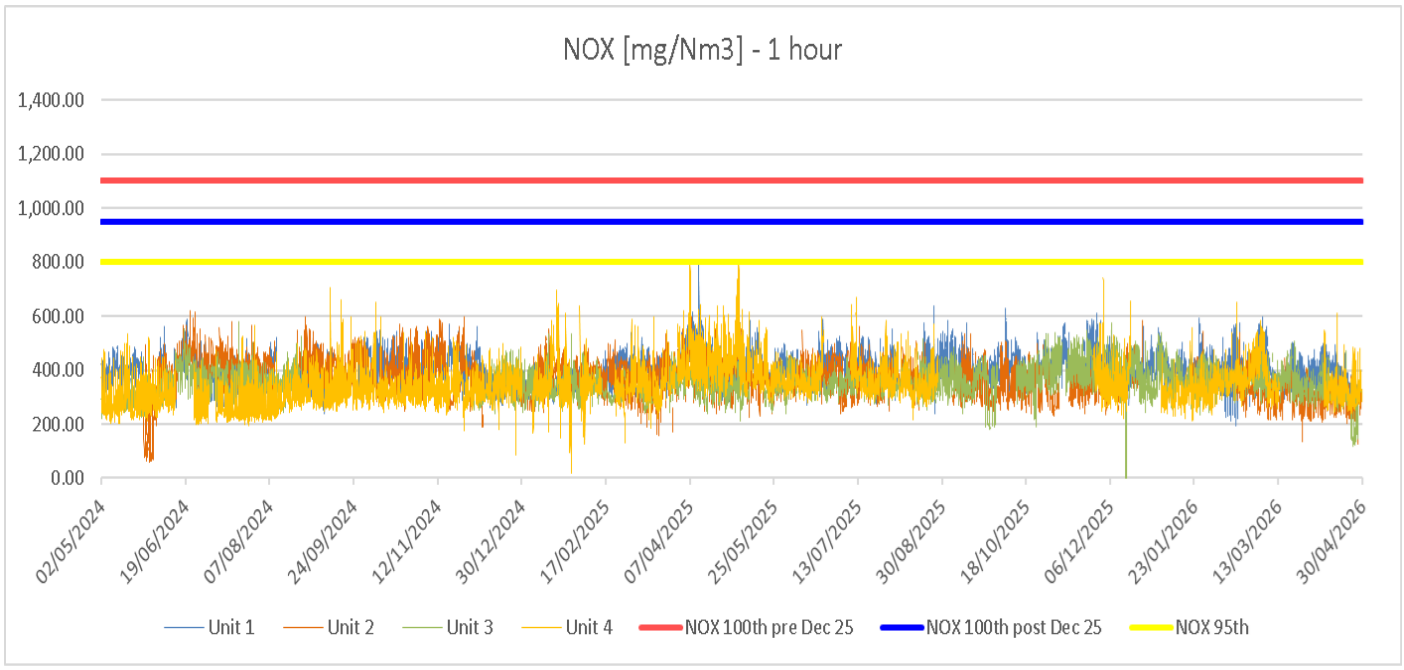
	NOx			SO_2		
	mg/Nm^3 (7% O_2)			mg/Nm^3 (7% O_2)		
	Daily Ave	Daily Max Hourly Average	Daily Min Hourly Average	Daily Ave	Daily Max Hourly Average	Daily Min Hourly Average
1/04/2026	326	396	272	765	788	728
2/04/2026	340	405	280	818	884	636
3/04/2026	311	378	249	795	849	742
4/04/2026	307	357	267	848	953	706
5/04/2026	342	389	288	838	884	734
6/04/2026	343	420	279	807	894	704
7/04/2026	353	458	285	873	946	780
8/04/2026	366	436	291	835	931	713
9/04/2026	397	472	305	805	838	739
10/04/2026	328	385	294	853	874	824
11/04/2026	365	450	288	850	894	799
12/04/2026	323	349	286	874	910	808
13/04/2026	331	375	300	851	941	791
14/04/2026	306	346	264	782	821	750
15/04/2026	330	408	247	842	912	772
16/04/2026	295	369	247	765	791	727
17/04/2026	337	415	283	818	834	797
18/04/2026	315	364	275	860	975	772
19/04/2026	295	326	265	741	815	685
20/04/2026	325	403	256	818	863	757
21/04/2026	353	473	282	726	795	684
22/04/2026	304	353	270	706	751	655
23/04/2026	273	290	254	765	846	660
24/04/2026	236	353	144	562	763	348
25/04/2026	146	274	118	382	646	274
26/04/2026	155	249	121	437	789	310
27/04/2026	178	303	136	441	721	312
28/04/2026	243	370	144	600	852	297
29/04/2026	336	368	279	833	857	757
30/04/2026	333	388	287	831	866	758

Unit 4 Boiler Continuous Emission Monitoring Summary -

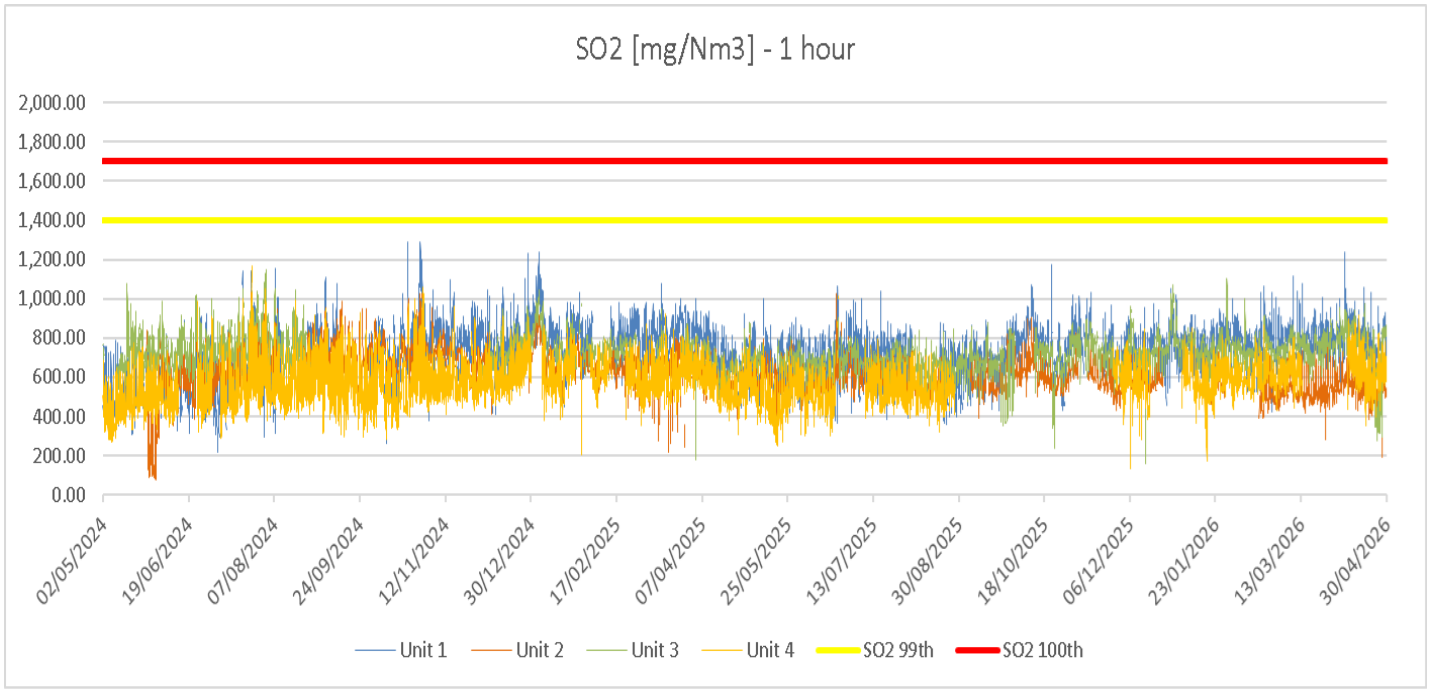
EPA Identification no. 6 - Air emissions monitoring, Boiler 4 stack discharge to air
Unit 4 offline 1-8 April 2026

	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
1/04/2026	-	-	-	-	-	-
2/04/2026	-	-	-	-	-	-
3/04/2026	-	-	-	-	-	-
4/04/2026	-	-	-	-	-	-
5/04/2026	-	-	-	-	-	-
6/04/2026	-	-	-	-	-	-
7/04/2026	-	-	-	-	-	-
8/04/2026	-	-	-	-	-	-
9/04/2026	371	547	264	748	897	438
10/04/2026	289	360	250	710	811	610
11/04/2026	331	407	273	739	828	611
12/04/2026	331	378	273	705	816	582
13/04/2026	331	396	273	690	876	533
14/04/2026	309	373	243	625	749	519
15/04/2026	325	385	255	707	916	522
16/04/2026	400	611	276	657	785	539
17/04/2026	321	381	278	681	809	549
18/04/2026	318	378	249	640	801	442
19/04/2026	332	415	261	559	676	349
20/04/2026	337	496	271	610	828	470
21/04/2026	356	403	297	588	704	439
22/04/2026	310	343	245	579	756	440
23/04/2026	283	331	250	611	743	428
24/04/2026	296	370	237	565	721	445
25/04/2026	353	486	263	578	676	395
26/04/2026	335	481	250	673	826	479
27/04/2026	320	434	266	611	716	431
28/04/2026	337	469	272	635	775	535
29/04/2026	344	480	272	631	760	534
30/04/2026	329	399	283	649	786	559

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	8.3	mg/m^3	50	10/02/2026
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	0.0002	mg/m^3	0.03	10/02/2026
Mercury	6 monthly	0.00012	mg/m^3	0.03	10/02/2026
Type 1 and 2 substances in Aggregate	6 monthly	≤0.02	mg/m^3	0.60	10/02/2026

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

Name	Frequency	Reading	Units	Licence Limit	Date
Flow Rate	6 monthly	410	m^3/sec	-	10/02/2026
Moisture	6 monthly	5.2	%	-	10/02/2026
Oxygen	6 monthly	8.2	%	-	10/02/2026
Solid Particles	Quarterly	6.8	mg/m^3	-	10/02/2026
Temperature	6 monthly	129	Deg C	-	10/02/2026
Carbon dioxide	6 monthly	12.7	%	-	10/02/2026
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	0.000084	mg/m^3	-	10/02/2026
Mercury	6 monthly	0.000053	mg/m^3	-	10/02/2026
Type 1 and Type 2 substances in	6 monthly	<0.013	mg/m^3	-	10/02/2026

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

Name	Frequency	Reading	Units	Licence Limit	Date
Flow Rate		400	m^3/sec	-	10/02/2026
Moisture		4.3	%	-	10/02/2026
Oxygen		8.3	%	-	10/02/2026
Solid Particles	Quarterly	9.9	mg/m^3	-	10/02/2026
Temperature		124	Deg C	-	10/02/2026
Cadmium	6 monthly	0.00031	mg/m^3	-	10/02/2026
Mercury	6 monthly	0.00019	mg/m^3	-	10/02/2026
Type 1 and Type 2 substances in Aggregate	6 monthly	≤0.023	mg/m^3	-	10/02/2026

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	19	mg/m^3	50	24-25/03/2026
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	0.000087	mg/m^3	0.03	24-25/03/2026
Mercury	6 monthly	0.0012	mg/m^3	0.03	24-25/03/2026
Type 1 and 2 substances in Aggregate	6 monthly	≤0.02	mg/m^3	0.60	24-25/03/2026

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

Name	Frequency	Reading	Units	Licence Limit	Date
Flow Rate	6 monthly	250	m^3/sec	-	24/03/2026
Moisture	6 monthly	4.3	%	-	24/03/2026
Oxygen	6 monthly	9.3	%	-	24/03/2026
Solid Particles	Quarterly	14	mg/m^3	-	24/03/2026
Temperature	6 monthly	127	Deg C	-	24/03/2026
Carbon dioxide	6 monthly	10.9	%	-	24/03/2026
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	0.000076	mg/m^3	-	24/03/2026
Mercury	6 monthly	0.00058	mg/m^3	-	24/03/2026
Type 1 and Type 2 substances in	6 monthly	<0.014	mg/m^3	-	24/03/2026

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

Name	Frequency	Reading	Units	Licence Limit	Date
Flow Rate		290	m^3/sec	-	25/03/2026
Moisture		5.5	%	-	25/03/2026
Oxygen		9.9	%	-	25/03/2026
Solid Particles	Quarterly	24	mg/m^3	-	25/03/2026
Temperature		109	Deg C	-	25/03/2026
Cadmium	6 monthly	0.000097	mg/m^3	-	25/03/2026
Mercury	6 monthly	0.0018	mg/m^3	-	25/03/2026
Type 1 and Type 2 substances in Aggregate	6 monthly	<0.025	mg/m^3	-	25/03/2026

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	4.1	mg/m^3	50	11/02/2026
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	≤0.00007	mg/m^3	0.03	11/02/2026
Mercury	6 monthly	≤0.00006	mg/m^3	0.03	11/02/2026
Type 1 and 2 substances in Aggregate	6 monthly	≤0.02	mg/m^3	0.60	11/02/2026

EPA Identification No 11 – Air Emissions monitoring, Boiler 3 Exhaust Duct A					
Name	**Frequency**	**Reading**	**Units**	**Licence Limit**	**Date**
Flow Rate	6 monthly	350	m^3/sec	-	11/02/2026
Moisture	6 monthly	6.4	%	-	11/02/2026
Oxygen	6 Monthly	7.1	%	-	11/02/2026
Solid Particles	Quarterly	3.9	mg/m^3	-	11/02/2026
Temperature	6 monthly	124	Deg C	-	11/02/2026
Carbon dioxide	6 monthly	13.9	%	-	11/02/2026
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	<0.00005	mg/m^3	-	11/02/2026
Mercury	6 monthly	<0.00007	mg/m^3	-	11/02/2026
Type 1 and Type 2 substances in Aggregate	6 monthly	<0.022	mg/m^3	-	11/02/2026

EPA Identification No 12 – Air Emissions monitoring, Boiler 3 Exhaust Duct B					
Name	**Frequency**	**Reading**	**Units**	**Licence Limit**	**Date**
Flow Rate		380	m^3/sec	-	11/02/2026
Moisture		4.6	%	-	11/02/2026
Oxygen		6.6	%	-	11/02/2026
Solid Particles	Quarterly	4.2	mg/m^3	-	11/02/2026
Temperature		121	Deg C	-	11/02/2026
Cadmium	6 monthly	0.000081	mg/m^3	-	11/02/2026
Mercury	6 monthly	<0.00005	mg/m^3	-	11/02/2026
Type 1 and Type 2 substances in Aggregate	6 monthly	<0.019	mg/m^3	-	11/02/2026

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	17	mg/m^3	50	12/02/2026
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	≤0.0001	mg/m^3	0.03	12/02/2026
Mercury	6 monthly	0.00016	mg/m^3	0.03	12/02/2026
Type 1 and 2 substances in Aggregate	6 monthly	≤0.03	mg/m^3	0.60	12/02/2026

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

Name	Frequency	Reading	Units	Licence Limit	Date
Flow Rate	6 monthly	270	m^3/sec	-	12/02/2026
Moisture	6 monthly	4.4	%	-	12/02/2026
Oxygen	6 monthly	8.7	%	-	12/02/2026
Solid Particles	Quarterly	22	mg/m^3	-	12/02/2026
Temperature	6 monthly	124	Deg C	-	12/02/2026
Carbon dioxide	6 monthly	11.3	%	-	12/02/2026
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	0.00024	mg/m^3	-	12/02/2026
Mercury	6 monthly	0.00016	mg/m^3	-	12/02/2026
Type 1 and Type 2 substances in	6 monthly	<0.032	mg/m^3	-	12/02/2026

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

Name	Frequency	Reading	Units	Licence Limit	Date
Flow Rate		290	m^3/sec	-	12/02/2026
Moisture		5.8	%	-	12/02/2026
Oxygen		9.5	%	-	12/02/2026
Solid Particles	Quarterly	12	mg/m^3	-	12/02/2026
Temperature		112	Deg C	-	12/02/2026
Cadmium	6 monthly	<0.00004	mg/m^3	-	12/02/2026
Mercury	6 monthly	0.00016	mg/m^3	-	12/02/2026
Type 1 and Type 2 substances in Aggregate	6 monthly	<0.021	mg/m^3	-	12/02/2026

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
22.94	0.5	24.15	8.19	33.84	77.4	5.29	4.25

	Laboratory Analysis			
Name	**Reading**	**Units**	**Licence Limit**	**Date**
Aluminium	0.025	mg/L	-	2/04/26
Ammonia	<0.005	mg/L	-	2/04/26
Arsenic III	<0.008	mg/L	-	2/04/26
Arsenic V	<0.008	mg/L	-	2/04/26
Cadmium	<0.0002	mg/L	-	2/04/26
Chromium (Trivalent)	<0.001	mg/L	-	2/04/26
Chromium (VI) Compounds	<0.001	mg/L	-	2/04/26
Copper	<0.001	mg/L	-	2/04/26
Iron	0.048	mg/L	-	2/04/26
Lead	<0.0002	mg/L	-	2/04/26
Manganese	0.0048	mg/L	-	2/04/26
Nickel	<0.0005	mg/L	-	2/04/26
pH	8.02	pH units	-	2/04/26
Selenium	<0.002	mg/L	-	2/04/26
Total Suspended Solids	<5	mg/L	-	2/04/26
Vanadium	0.0018	mg/L	-	2/04/26
Zinc	<0.005	mg/L	-	2/04/26

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
22.46	0.5	24.13	8.18	34.09	78.9	5.46	4.75

Laboratory Analysis				
Name	**Reading**	**Units**	**Licence**	**Date**
Aluminium	0.024	mg/L	-	2/04/26
Ammonia	<0.005	mg/L	-	2/04/26
Arsenic III	<0.008	mg/L	-	2/04/26
Arsenic V	<0.008	mg/L	-	2/04/26
Cadmium	<0.0002	mg/L	-	2/04/26
Chromium (Trivalent)	<0.001	mg/L	-	2/04/26
Chromium (VI) Compounds	<0.001	mg/L	-	2/04/26
Copper	<0.001	mg/L	-	2/04/26
Iron	0.035	mg/L	-	2/04/26
Lead	<0.0002	mg/L	-	2/04/26
Manganese	0.0043	mg/L	-	2/04/26
Nickel	<0.0005	mg/L	-	2/04/26
pH	8.10	pH units	-	2/04/26
Selenium	<0.002	mg/L	-	2/04/26
Total Suspended Solids	<5	mg/L	-	2/04/26
Vanadium	0.0020	mg/L	-	2/04/26
Zinc	<0.005	mg/L	-	2/04/26

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
21.65	0.5	22.75	7.99	34.59	100.8	7.12	7.25

Laboratory Analysis

Name	Reading	Units	Licence	Date
Aluminium	0.01	mg/L	-	2/04/26
Ammonia	<0.005	mg/L	-	2/04/26
Arsenic III	<0.008	mg/L	-	2/04/26
Arsenic V	<0.008	mg/L	-	2/04/26
Cadmium	<0.0002	mg/L	-	2/04/26
Chromium (Trivalent)	<0.001	mg/L	-	2/04/26
Chromium (VI) Compounds	<0.001	mg/L	-	2/04/26
Copper	<0.001	mg/L	-	2/04/26
Iron	0.009	mg/L	-	2/04/26
Lead	0.0002	mg/L	-	2/04/26
Manganese	0.0021	mg/L	-	2/04/26
Nickel	<0.0005	mg/L	-	2/04/26
pH	8.14	pH units	-	2/04/26
Selenium	<0.002	mg/L	-	2/04/26
Total Suspended Solids	<5	mg/L	-	2/04/26
Vanadium	0.0022	mg/L	-	2/04/26
Zinc	<0.005	mg/L	-	2/04/26

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
21.57	0.5	26.64	8.09	34.43	106.9	7.07	4.75

Laboratory Analysis

Name	Reading	Units	Licence	Date
Aluminium	0.022	mg/L	-	2/04/26
Ammonia	<0.005	mg/L	-	2/04/26
Arsenic III	<0.008	mg/L	-	2/04/26
Arsenic V	<0.008	mg/L	-	2/04/26
Cadmium	<0.0002	mg/L	-	2/04/26
Chromium (Trivalent)	<0.001	mg/L	-	2/04/26
Chromium (VI) Compounds	<0.001	mg/L	-	2/04/26
Copper	<0.001	mg/L	-	2/04/26
Iron	0.036	mg/L	-	2/04/26
Lead	<0.0002	mg/L	-	2/04/26
Manganese	0.0039	mg/L	-	2/04/26
Nickel	<0.0005	mg/L	-	2/04/26
pH	8.01	pH units	-	2/04/26
Selenium	<0.002	mg/L	-	2/04/26
Total Suspended Solids	<5	mg/L	-	2/04/26
Vanadium	0.0018	mg/L	-	2/04/26
Zinc	<0.005	mg/L	-	2/04/26

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	0.161	mg/L	-	2/04/26
Ammonia	2.79	mg/L	-	2/04/26
Arsenic III	0.0005	mg/L	-	2/04/26
Arsenic V	0.0080	mg/L	-	2/04/26
Cadmium	0.00011	mg/L	-	2/04/26
Chromium (Trivalent)	<0.001	mg/L	-	2/04/26
Chromium (VI) Compounds	<0.01	mg/L	-	2/04/26
Copper	0.0076	mg/L	-	2/04/26
Iron	0.079	mg/L	-	2/04/26
Lead	0.0001	mg/L	-	2/04/26
Manganese	0.262	mg/L	-	2/04/26
Nickel	0.0054	mg/L	-	2/04/26
Nitrite and Nitrate as N	7.43	mg/L	-	2/04/26
Nitrogen	10.3	mg/L	-	2/04/26
pH	6.42	pH units	-	2/04/26
Phosphorus as P	0.73	mg/L	-	2/04/26
Reactive Phosphorus as P	0.70	mg/L	-	2/04/26
Selenium	0.0489	mg/L	-	2/04/26
Total Kjeldahl Nitrogen	2.9	mg/L	-	2/04/26
Total Suspended Solids	13	mg/L	-	2/04/26
Vanadium	0.0931	mg/L	-	2/04/26
Zinc	0.028	mg/L	-	2/04/26

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	0.026	mg/L	-	2/04/26
Ammonia	0.006	mg/L	-	2/04/26
Arsenic III	<0.0080	mg/L	-	2/04/26
Arsenic V	<0.0080	mg/L	-	2/04/26
Cadmium	<0.0002	mg/L	-	2/04/26
Chromium (Trivalent)	<0.001	mg/L	-	2/04/26
Chromium (VI) Compounds	<0.01	mg/L	-	2/04/26
Copper	0.0012	mg/L	-	2/04/26
Iron	0.076	mg/L	-	2/04/26
Lead	<0.0002	mg/L	-	2/04/26
Manganese	0.0056	mg/L	-	2/04/26
Nickel	<0.0005	mg/L	-	2/04/26
pH	7.96	pH units	-	2/04/26
Selenium	<0.001	mg/L	-	2/04/26
Total Suspended Solids	17	mg/L	-	2/04/26
Vanadium	0.0032	mg/L	-	2/04/26
Zinc	<0.005	mg/L	-	2/04/26
Dissolved Oxygen	6.45	mg/L	-	2/04/26
Field Temperature	23.4	degC	-	2/04/26
Salinity	34.21	ppt	-	2/04/26
Secchi Disk	3.125	m	-	2/04/26
Temperature – Average	22.76	deg C	-	April 26
Temperature – Minimum	20.47	deg C	-	April 26
Temperature - Maximum	25.41	deg C	-	April 26

Eraring Cooling Water Outlet Canal

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

Name	Reading	Units	Licence Limit	Date
Copper	0.0015	mg/L	0.005	2/04/26
Iron	0.044	mg/L	0.3	2/04/26
Selenium	<0.001	mg/L	0.002	2/04/26

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	29.32	deg C	35.5	37.5	38.5	April 26
Temperature – Minimum	24.56	deg C				April 26
Temperature - Maximum	34.55	deg C				April 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	1.50	ML		April 26
Average Daily Discharge from Ash Dam	7.90	ML		April 26
Maximum Daily Discharge from Ash Dam	24.61	ML	150	April 26
Monthly Discharge from Ash Dam	237.08	ML	-	April 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	0.029	mg/L	-	2/04/26
Ammonia	3.08	mg/L	-	2/04/26
Arsenic III	0.0036	mg/L	-	2/04/26
Arsenic V	0.0012	mg/L	-	2/04/26
Cadmium	<0.00005	mg/L	-	2/04/26
Chromium (Trivalent)	<0.001	mg/L	-	2/04/26
Chromium (VI) Compounds	<0.01	mg/L	-	2/04/26
Copper	<0.0005	mg/L	-	2/04/26
Iron	3.66	mg/L	-	2/04/26
Lead	<0.0001	mg/L	-	2/04/26
Manganese	0.886	mg/L	-	2/04/26
Nickel	0.0031	mg/L	-	2/04/26
Nitrite and Nitrate as N	0.031	mg/L	-	2/04/26
Nitrogen	3.58	mg/L	-	2/04/26
pH	6.98	pH units	6-9.5	2/04/26
Phosphorus as P	0.244	mg/L	-	2/04/26
Reactive Phosphorus as P	0.005	mg/L	-	2/04/26
Selenium	<0.0002	mg/L	-	2/04/26
Total Kjeldahl Nitrogen	3.55	mg/L	-	2/04/26
Total Suspended Solids	18	mg/L	50	2/04/26
Vanadium	0.0006	mg/L	-	2/04/26
Zinc	0.002	mg/L	-	2/04/26

MR217

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	-	2/04/26
Ammonia		mg/L	-	2/04/26
Arsenic III		mg/L	-	2/04/26
Arsenic V		mg/L	-	2/04/26
Cadmium		mg/L	-	2/04/26
Chromium (Trivalent)		mg/L	-	2/04/26
Chromium (VI) Compounds		mg/L	-	2/04/26
Copper		mg/L	-	2/04/26
Iron		mg/L	-	2/04/26
Lead		mg/L	-	2/04/26
Manganese		mg/L	-	2/04/26
Nickel		mg/L	-	2/04/26
Nitrite and Nitrate as N		mg/L	-	2/04/26
Nitrogen		mg/L	-	2/04/26
pH		pH units	6-9.5	2/04/26
Phosphorus as P		mg/L	-	2/04/26
Reactive Phosphorus as P		mg/L	-	2/04/26
Selenium		mg/L	-	2/04/26
Total Kjeldahl Nitrogen		mg/L	-	2/04/26
Total Suspended Solids		mg/L	50	2/04/26
Vanadium		mg/L	-	2/04/26
Zinc		mg/L	-	2/04/26

Groundwater Monitoring
Groundwater Well – MW01

EPA Identification no. 32 – Groundwater Monitoring Well 01

Name	Reading	Units	Licence Limit	Date
Aluminium	1.24	mg/L	-	26/03/26
Ammonia	0.22	mg/L	-	26/03/26
Arsenic (III)	<0.0005	mg/L	-	26/03/26
Arsenic (V)	0.0007	mg/L	-	26/03/26
Cadmium	<0.00005	mg/L	-	26/03/26
Calcium	3	mg/L	-	26/03/26
Chromium (trivalent)	<0.01	mg/L	-	26/03/26
Chromium (VI) compounds	<0.01	mg/L	-	26/03/26
Copper	0.0026	mg/L	-	26/03/26
Electrical Conductivity	506	uS/cm	-	26/03/26
Iron	3.11	mg/L	-	26/03/26
Lead	0.0132	mg/L	-	26/03/26
Magnesium	5	mg/L	-	26/03/26
Manganese	0.162	mg/L	-	26/03/26
Nickel	0.0057	mg/L	-	26/03/26
pH	5.91	pH units	-	26/03/26
Potassium	4	mg/L	-	26/03/26
Selenium	<0.0002	mg/L	-	26/03/26
Sodium	88	mg/L	-	26/03/26
Standing Water Level	5.99	m	-	26/03/26
Vanadium	0.0024	mg/L	-	26/03/26
Zinc	0.046	mg/L	-	26/03/26

Groundwater Monitoring
Groundwater Well – MW02

EPA Identification no. 33 – Groundwater Monitoring Well 02

Name	Reading	Units	Licence Limit	Date
Aluminium	1.23	mg/L	-	26/03/26
Ammonia	6.64	mg/L	-	26/03/26
Arsenic (III)	0.0005	mg/L	-	26/03/26
Arsenic (V)	0.0008	mg/L	-	26/03/26
Cadmium	0.00008	mg/L	-	26/03/26
Calcium	268	mg/L	-	26/03/26
Chromium (trivalent)	<0.01	mg/L	-	26/03/26
Chromium (VI) compounds	<0.01	mg/L	-	26/03/26
Copper	0.0011	mg/L	-	26/03/26
Electrical Conductivity	26,500	uS/cm	-	26/03/26
Iron	21.8	mg/L	-	26/03/26
Lead	0.0027	mg/L	-	26/03/26
Magnesium	430	mg/L	-	26/03/26
Manganese	0.587	mg/L	-	26/03/26
Nickel	0.0010	mg/L	-	26/03/26
pH	6.54	pH units	-	26/03/26
Potassium	186	mg/L	-	26/03/26
Selenium	0.0007	mg/L	-	26/03/26
Sodium	5,020	mg/L	-	26/03/26
Standing Water Level	5.33	m	-	26/03/26
Vanadium	0.0063	mg/L	-	26/03/26
Zinc	0.016	mg/L	-	26/03/26

Groundwater Monitoring
Groundwater Well – MW06

EPA Identification no. 34 – Groundwater Monitoring Well 06

Name	Reading	Units	Licence Limit	Date
Aluminium	0.028	mg/L	-	26/03/26
Ammonia	3.58	mg/L	-	26/03/26
Arsenic (III)	0.0044	mg/L	-	26/03/26
Arsenic (V)	0.0011	mg/L	-	26/03/26
Cadmium	<0.00005	mg/L	-	26/03/26
Calcium	399	mg/L	-	26/03/26
Chromium (trivalent)	<0.01	mg/L	-	26/03/26
Chromium (VI) compounds	<0.01	mg/L	-	26/03/26
Copper	<0.0005	mg/L	-	26/03/26
Electrical Conductivity	17,700	uS/cm	-	26/03/26
Iron	9.18	mg/L	-	26/03/26
Lead	0.0012	mg/L	-	26/03/26
Magnesium	217	mg/L	-	26/03/26
Manganese	0.355	mg/L	-	26/03/26
Nickel	0.0009	mg/L	-	26/03/26
pH	6.70	pH units	-	26/03/26
Potassium	120	mg/L	-	26/03/26
Selenium	0.0003	mg/L	-	26/03/26
Sodium	3,200	mg/L	-	26/03/26
Standing Water Level	2.175	m	-	26/03/26
Vanadium	0.0011	mg/L	-	26/03/26
Zinc	0.012	mg/L	-	26/03/26

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	-	26/03/26
Ammonia		mg/L	-	26/03/26
Arsenic (III)		mg/L	-	26/03/26
Arsenic (V)		mg/L	-	26/03/26
Cadmium		mg/L	-	26/03/26
Calcium		mg/L	-	26/03/26
Chromium (trivalent)		mg/L	-	26/03/26
Chromium (VI) compounds		mg/L	-	26/03/26
Copper		mg/L	-	26/03/26
Electrical Conductivity		uS/cm	-	26/03/26
Iron		mg/L	-	26/03/26
Lead		mg/L	-	26/03/26
Magnesium		mg/L	-	26/03/26
Manganese		mg/L	-	26/03/26
Nickel		mg/L	-	26/03/26
pH		pH units	-	26/03/26
Potassium		mg/L	-	26/03/26
Selenium		mg/L	-	26/03/26
Sodium		mg/L	-	26/03/26
Standing Water Level		m	-	26/03/26
Vanadium		mg/L	-	26/03/26
Zinc		mg/L	-	26/03/26

Water Quality – Surface Water EBESS

EPA Identification no. 37 – Final discharge point from the water treatment plant
Sample Frequency – Daily during any discharge (3 discharge events).

Name	Min reading (mg/L)	Average reading (mg/L)	Maximum Reading (mg/L)	Project Criteria	Number of samples
Cadmium	<0.0001	<0.0001	<0.0001	-	2
Chromium (hexavalant)	<0.1	<0.1	<0.1	-	2
Chromium (trivalent)	<0.1	<0.1	<0.1	-	2
Copper	<0.5	N/C	0.7	-	2
Lead	<0.001	<0.001	<0.001		2
Manganese	0.013	0.014	0.015	-	2
Nickel	<0.001	<0.001	<0.001	-	2
PFOS	0.0035	0.0042	0.0049	0.13 ug/L	2
PFOA	0.002	0.0022	0.0024	220 ug/L	2
pH	8.1	8.15	8.20	6.5-9	2
Selenium	0.7	0.75	0.8	-	2
Total Suspended solids	6	6	6	50mg/L	2
Vanadium	<0.1	<0.1	<0.1	-	2
Zinc	3	4	5	-	2

Daily Volume Discharged		
Min	Ave	Max
1.9	1.9	1.9

N/C Non calculable

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	-	-	

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	-	-	

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	-	-	

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	-	-	

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	-	-	