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

Environmental Monitoring Data November 2025



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
Unit 1 offline 15-19 November 2025

	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
01/11/2025	400	442	324	734	837	650
02/11/2025	415	489	358	762	842	610
03/11/2025	424	479	351	907	1021	710
04/11/2025	440	493	370	827	890	759
05/11/2025	415	472	345	865	972	735
06/11/2025	453	524	386	808	876	727
07/11/2025	463	526	372	859	1013	709
08/11/2025	450	512	331	792	897	731
09/11/2025	510	577	423	722	800	622
10/11/2025	486	572	371	784	875	614
11/11/2025	453	508	343	882	999	752
12/11/2025	447	538	377	732	810	615
13/11/2025	416	463	366	880	957	617
14/11/2025	388	413	338	848	1035	751
15/11/2025	-	-	-	-	-	-
16/11/2025	-	-	-	-	-	-
17/11/2025	-	-	-	-	-	-
18/11/2025	-	-	-	-	-	-
19/11/2025	-	-	-	-	-	-
20/11/2025	481	481	481	803	803	803
21/11/2025	467	512	409	713	898	598
22/11/2025	439	560	305	766	929	589
23/11/2025	478	583	402	741	816	679
24/11/2025	477	565	395	791	847	755
25/11/2025	492	589	355	760	971	674
26/11/2025	472	586	396	769	876	615
27/11/2025	459	551	388	677	702	603
28/11/2025	529	610	406	628	735	577
29/11/2025	481	567	426	717	783	652
30/11/2025	487	584	370	666	763	644

Unit 2 Boiler Continuous Emission Monitoring Summary

EPA Identification no. 4 - Air emissions monitoring, Boiler 2 stack discharge to air
Unit 2 offline 7-11 November 2025

	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
01/11/2025	339	425	251	602	703	523
02/11/2025	295	383	244	627	818	576
03/11/2025	249	312	230	681	829	636
04/11/2025	271	325	248	635	731	592
05/11/2025	269	316	257	656	829	612
06/11/2025	288	351	256	641	814	588
07/11/2025	-	-	-	-	-	-
08/11/2025	-	-	-	-	-	-
09/11/2025	-	-	-	-	-	-
10/11/2025	-	-	-	-	-	-
11/11/2025	-	-	-	-	-	-
12/11/2025	314	389	283	611	631	592
13/11/2025	337	414	268	636	783	585
14/11/2025	334	399	265	637	781	589
15/11/2025	383	489	291	615	759	570
16/11/2025	362	443	295	600	719	573
17/11/2025	353	495	278	616	745	584
18/11/2025	315	392	256	565	688	537
19/11/2025	335	405	284	565	647	534
20/11/2025	321	404	259	598	719	562
21/11/2025	312	397	238	558	670	521
22/11/2025	350	418	267	598	756	538
23/11/2025	327	396	274	551	668	514
24/11/2025	356	430	297	592	697	560
25/11/2025	386	466	309	570	687	522
26/11/2025	380	454	324	580	756	479
27/11/2025	347	430	270	503	606	459
28/11/2025	380	453	282	490	628	428
29/11/2025	348	424	277	541	675	476
30/11/2025	403	557	309	500	674	442

Unit 3 Boiler Continuous Emission Monitoring Summary

EPA Identification no. 5 - Air emissions monitoring, Boiler 3 stack discharge to air
Unit 3 offline 9 November 2025

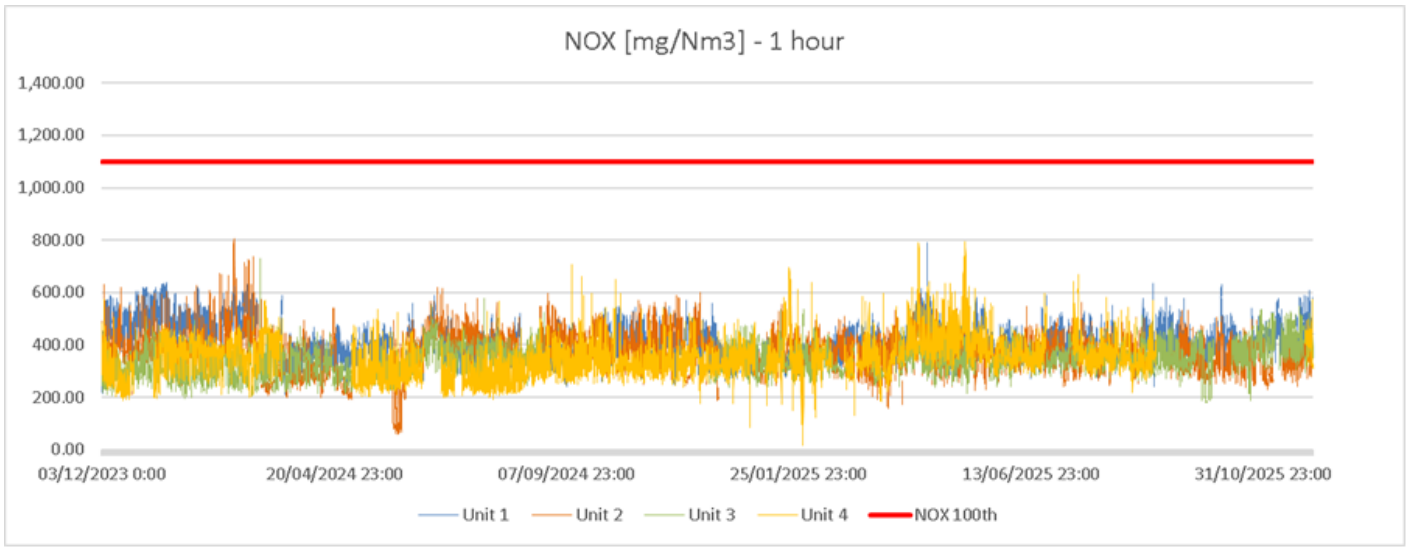
	NOx			SO_2		
	mg/Nm^3 (7% O_2)			mg/Nm^3 (7% O_2)		
	Daily Ave	Daily Max Hourly Average	Daily Min Hourly Average	Daily Ave	Daily Max Hourly Average	Daily Min Hourly Average
01/11/2025	374	468	311	702	741	659
02/11/2025	394	489	304	767	821	650
03/11/2025	424	487	310	831	876	650
04/11/2025	420	501	350	754	817	595
05/11/2025	393	523	313	776	816	720
06/11/2025	440	520	319	777	857	653
07/11/2025	461	520	377	806	859	678
08/11/2025	468	503	381	700	786	561
09/11/2025	-	-	-	-	-	-
10/11/2025	388	435	305	779	793	739
11/11/2025	372	477	321	790	895	637
12/11/2025	432	483	354	728	787	605
13/11/2025	427	510	335	817	888	633
14/11/2025	401	478	333	791	877	729
15/11/2025	453	520	354	772	823	698
16/11/2025	444	516	342	786	815	745
17/11/2025	447	528	355	792	835	659
18/11/2025	421	495	333	720	806	638
19/11/2025	430	495	335	711	743	583
20/11/2025	422	519	332	747	774	627
21/11/2025	403	453	304	697	721	644
22/11/2025	414	548	324	746	831	668
23/11/2025	450	521	343	699	735	661
24/11/2025	434	513	351	750	786	700
25/11/2025	417	478	356	708	750	645
26/11/2025	349	437	293	649	727	542
27/11/2025	375	422	314	590	651	513
28/11/2025	425	522	324	607	665	571
29/11/2025	422	485	356	671	704	550
30/11/2025	421	498	345	642	669	568

Unit 4 Boiler Continuous Emission Monitoring Summary -

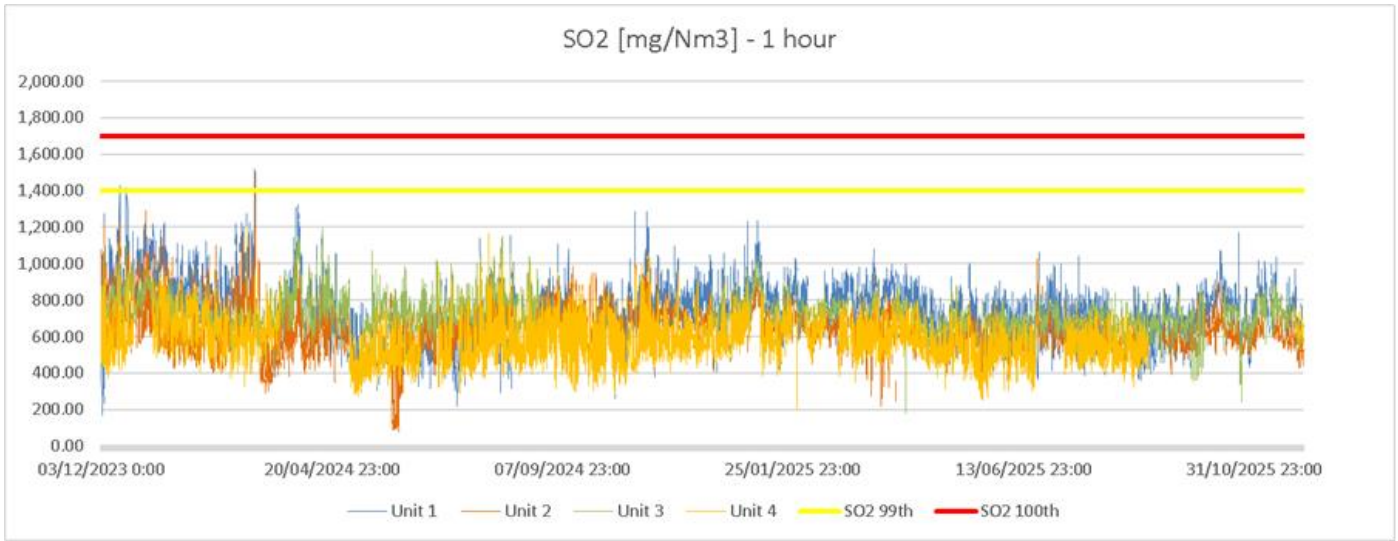
EPA Identification no. 6 - Air emissions monitoring, Boiler 4 stack discharge to air
Unit 4 offline 1-25 November 2025

	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
01/11/2025	-	-	-	-	-	-
02/11/2025	-	-	-	-	-	-
03/11/2025	-	-	-	-	-	-
04/11/2025	-	-	-	-	-	-
05/11/2025	-	-	-	-	-	-
06/11/2025	-	-	-	-	-	-
07/11/2025	-	-	-	-	-	-
08/11/2025	-	-	-	-	-	-
09/11/2025	-	-	-	-	-	-
10/11/2025	-	-	-	-	-	-
11/11/2025	-	-	-	-	-	-
12/11/2025	-	-	-	-	-	-
13/11/2025	-	-	-	-	-	-
14/11/2025	-	-	-	-	-	-
15/11/2025	-	-	-	-	-	-
16/11/2025	-	-	-	-	-	-
17/11/2025	-	-	-	-	-	-
18/11/2025	-	-	-	-	-	-
19/11/2025	-	-	-	-	-	-
20/11/2025	-	-	-	-	-	-
21/11/2025	-	-	-	-	-	-
22/11/2025	-	-	-	-	-	-
23/11/2025	-	-	-	-	-	-
24/11/2025	-	-	-	-	-	-
25/11/2025	-	-	-	-	-	-
26/11/2025	444	482	400	666	750	623
27/11/2025	419	495	321	641	690	590
28/11/2025	415	500	329	619	734	532
29/11/2025	409	461	331	676	757	539
30/11/2025	410	575	307	614	684	548

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	2.2	mg/m^3	50	29/07/2025
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	460	m^3/sec	-	29/07/2025
Moisture	6 monthly	5	%	-	29/07/2025
Oxygen	6 monthly	7.2	%	-	29/07/2025
Solid Particles	Quarterly	1.5	mg/m^3	-	29/07/2025
Temperature	6 monthly	124	Deg C	-	29/07/2025
Carbon dioxide	6 monthly	12.9	%	-	29/07/2025
Chlorine	6 monthly	<0.03	mg/m^3	-	29/04/2025
Fluorine	6 monthly	8.5	mg/m^3	-	29/04/2025
Hydrogen chloride	6 monthly	7.2	mg/m^3	-	29/04/2025
Sulfuric acid mist and sulfur trioxide (as SO_3)	6 monthly	1.9	mg/m^3	-	29/04/2025
Volatile organic compounds as n-	6 monthly	0.11	mg/m^3	-	29/04/2025
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		360	m^3/sec	-	29/07/2025
Moisture		4.9	%	-	29/07/2025
Oxygen		6.9	%	-	29/07/2025
Solid Particles	Quarterly	3.1	mg/m^3	-	29/07/2025
Temperature		125	Deg C	-	29/07/2025
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	20.0	mg/m^3	50	30/07/2025
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	390	m^3/sec	-	30/07/2025
Moisture	6 monthly	4.6	%	-	30/07/2025
Oxygen	6 monthly	6.7	%	-	30/07/2025
Solid Particles	Quarterly	21	mg/m^3	-	30/07/2025
Temperature	6 monthly	110	Deg C	-	30/07/2025
Carbon dioxide	6 monthly	13.1	%	-	30/07/2025
Chlorine	6 monthly	<0.01	mg/m^3	-	30/04/2025
Fluorine	6 monthly	10	mg/m^3	-	30/04/2025
Hydrogen chloride	6 monthly	9.2	mg/m^3	-	30/04/2025
Sulfuric acid mist and sulfur trioxide (as SO_3)	6 monthly	3.6	mg/m^3	-	30/04/2025
Volatile organic compounds as n-	6 monthly	<0.06	mg/m^3	-	30/04/2025
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		440	m^3/sec	-	30/07/2025
Moisture		6.2	%	-	30/07/2025
Oxygen		5.6	%	-	30/07/2025
Solid Particles	Quarterly	20	mg/m^3	-	30/07/2025
Temperature		119	Deg C	-	30/07/2025
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	2.0	mg/m^3	50	31/07/2025
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	430	m^3/sec	-	31/07/2025
Moisture	6 monthly	6.2	%	-	31/07/2025
Oxygen	6 Monthly	7	%	-	31/07/2025
Solid Particles	Quarterly	2.3	mg/m^3	-	31/07/2025
Temperature	6 monthly	110	Deg C	-	31/07/2025
Carbon dioxide	6 monthly	13	%	-	31//2025
Chlorine	6 monthly	0.18	mg/m^3	-	1/05/2025
Fluorine	6 monthly	16	mg/m^3	-	1/05/2025
Hydrogen chloride	6 monthly	11	mg/m^3	-	1/05/2025
Sulfuric acid mist and sulfur trioxide (as SO_3)	6 monthly	2.1	mg/m^3	-	1/05/2025
Volatile organic compounds as n-propane equivalent	6 monthly	<0.06	mg/m^3	-	1/05/2025
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		350	m^3/sec	-	31/07/2025
Moisture		5.8	%	-	31/07/2025
Oxygen		5.7	%	-	31/07/2025
Solid Particles	Quarterly	1.6	mg/m^3	-	31/07/2025
Temperature		108	Deg C	-	31/07/2025
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	6.6	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	380	m^3/sec	-	01/08/2025
Moisture	6 monthly	5	%	-	01/08/2025
Oxygen	6 monthly	7.2	%	-	01/08/2025
Solid Particles	Quarterly	6.9	mg/m^3	-	01/08/2025
Temperature	6 monthly	121	Deg C	-	01/08/2025
Carbon dioxide	6 monthly	12.8	%	-	01/08/2025
Chlorine	6 monthly	<0.03	mg/m^3	-	2/05/2025
Fluorine	6 monthly	17	mg/m^3	-	2/05/2025
Hydrogen chloride	6 monthly	14	mg/m^3	-	2/05/2025
Sulfuric acid mist and sulfur trioxide (as SO_3)	6 monthly	6.6	mg/m^3	-	2/05/2025
Volatile organic compounds as n-	6 monthly	<0.08	mg/m^3	-	2/05//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		450	m^3/sec	-	01/08/2025
Moisture		5	%	-	01/08/2025
Oxygen		6.4	%	-	01/08/2025
Solid Particles	Quarterly	6.3	mg/m^3	-	01/08/2025
Temperature		119	Deg C	-	01/08/2025
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
20.81	0.5	23.17	8.21	42.74	90.2	6.03	3.75

	Laboratory Analysis			
Name	**Reading**	**Units**	**Licence Limit**	**Date**
Aluminium	0.062	mg/L	-	6/11/25
Ammonia	<0.005	mg/L	-	6/11/25
Arsenic III	<0.008	mg/L	-	6/11/25
Arsenic V	<0.008	mg/L	-	6/11/25
Cadmium	<0.0002	mg/L	-	6/11/25
Chromium (Trivalent)	<0.001	mg/L	-	6/11/25
Chromium (VI) Compounds	<0.001	mg/L	-	6/11/25
Copper	0.001	mg/L	-	6/11/25
Iron	0.08	mg/L	-	6/11/25
Lead	<0.0002	mg/L	-	6/11/25
Manganese	0.0088	mg/L	-	6/11/25
Nickel	<0.0005	mg/L	-	6/11/25
pH	8.08	pH units	-	6/11/25
Selenium	<0.002	mg/L	-	6/11/25
Total Suspended Solids	<5	mg/L	-	6/11/25
Vanadium	0.0027	mg/L	-	6/11/25
Zinc	<0.005	mg/L	-	6/11/25

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
20.87	0.5	22.98	8.22	42.48	93.8	6.29	4.75

Laboratory Analysis				
Name	Reading	**Units**	**Licence Limits**	**Date**
Aluminium	0.024	mg/L	-	6/11/25
Ammonia	<0.005	mg/L	-	6/11/25
Arsenic III	<0.008	mg/L	-	6/11/25
Arsenic V	<0.008	mg/L	-	6/11/25
Cadmium	<0.0002	mg/L	-	6/11/25
Chromium (Trivalent)	<0.001	mg/L	-	6/11/25
Chromium (VI) Compounds	<0.001	mg/L	-	6/11/25
Copper	0.002	mg/L	-	6/11/25
Iron	0.018	mg/L	-	6/11/25
Lead	<0.0002	mg/L	-	6/11/25
Manganese	0.0052	mg/L	-	6/11/25
Nickel	<0.0005	mg/L	-	6/11/25
pH	8.08	pH units	-	6/11/25
Selenium	<0.002	mg/L	-	6/11/25
Total Suspended Solids	<5	mg/L	-	6/11/25
Vanadium	0.0032	mg/L	-	6/11/25
Zinc	<0.005	mg/L	-	6/11/25

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
20.47	0.5	21.75	8.08	43.19	101	6.87	4.25

Laboratory Analysis

Name	Reading	Units	Licence Limits	Date
Aluminium	0.018	mg/L	-	6/11/25
Ammonia	<0.005	mg/L	-	6/11/25
Arsenic III	<0.008	mg/L	-	6/11/25
Arsenic V	<0.008	mg/L	-	6/11/25
Cadmium	<0.0002	mg/L	-	6/11/25
Chromium (Trivalent)	<0.001	mg/L	-	6/11/25
Chromium (VI) Compounds	<0.001	mg/L	-	6/11/25
Copper	<0.001	mg/L	-	6/11/25
Iron	0.022	mg/L	-	6/11/25
Lead	<0.0002	mg/L	-	6/11/25
Manganese	0.0052	mg/L	-	6/11/25
Nickel	<0.0005	mg/L	-	6/11/25
pH	8.09	pH units	-	6/11/25
Selenium	<0.002	mg/L	-	6/11/25
Total Suspended Solids	<5	mg/L	-	6/11/25
Vanadium	0.0025	mg/L	-	6/11/25
Zinc	<0.005	mg/L	-	6/11/25

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
20.49	0.5	25.06	8.22	38.40	108.1	6.94	3.25

Laboratory Analysis

Name	**Reading**	**Units**	**Licence Limits**	**Date**
Aluminium	0.033	mg/L	-	6/11/25
Ammonia	<0.005	mg/L	-	6/11/25
Arsenic III	<0.008	mg/L	-	6/11/25
Arsenic V	<0.008	mg/L	-	6/11/25
Cadmium	<0.0002	mg/L	-	6/11/25
Chromium (Trivalent)	<0.001	mg/L	-	6/11/25
Chromium (VI) Compounds	<0.001	mg/L	-	6/11/25
Copper	0.002	mg/L	-	6/11/25
Iron	0.066	mg/L	-	6/11/25
Lead	<0.0002	mg/L	-	6/11/25
Manganese	0.0073	mg/L	-	6/11/25
Nickel	<0.0005	mg/L	-	6/11/25
pH	8.04	pH units	-	6/11/25
Selenium	<0.002	mg/L	-	6/11/25
Total Suspended Solids	<5	mg/L	-	6/11/25
Vanadium	0.0027	mg/L	-	6/11/25
Zinc	<0.005	mg/L	-	6/11/25

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	0.114	mg/L	-	6/11/25
Ammonia	1.53	mg/L	-	6/11/25
Arsenic III	<0.0005	mg/L	-	6/11/25
Arsenic V	0.0101	mg/L	-	6/11/25
Cadmium	0.00005	mg/L	-	6/11/25
Chromium (Trivalent)	<0.001	mg/L	-	6/11/25
Chromium (VI) Compounds	<0.01	mg/L	-	6/11/25
Copper	0.0041	mg/L	-	6/11/25
Iron	0.143	mg/L	-	6/11/25
Lead	0.0002	mg/L	-	6/11/25
Manganese	0.193	mg/L	-	6/11/25
Nickel	0.0037	mg/L	-	6/11/25
Nitrite and Nitrate as N	8.40	mg/L	-	6/11/25
Nitrogen	11.1	mg/L	-	6/11/25
pH	7.49	pH units	-	6/11/25
Phosphorus as P	1.13	mg/L	-	6/11/25
Reactive Phosphorus as P	0.85	mg/L	-	6/11/25
Selenium	0.0481	mg/L	-	6/11/25
Total Kjeldahl Nitrogen	2.7	mg/L	-	6/11/25
Total Suspended Solids	13	mg/L	-	6/11/25
Vanadium	0.0653	mg/L	-	6/11/25
Zinc	0.013	mg/L	-	6/11/25

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	0.067	mg/L	-	6/11/25
Ammonia	0.008	mg/L	-	6/11/25
Arsenic III	<0.008	mg/L	-	6/11/25
Arsenic V	<0.008	mg/L	-	6/11/25
Cadmium	<0.0002	mg/L	-	6/11/25
Chromium (Trivalent)	<0.001	mg/L	-	6/11/25
Chromium (VI) Compounds	<0.01	mg/L	-	6/11/25
Copper	0.0010	mg/L	-	6/11/25
Iron	0.083	mg/L	-	6/11/25
Lead	<0.0002	mg/L	-	6/11/25
Manganese	0.0089	mg/L	-	6/11/25
Nickel	<0.0005	mg/L	-	6/11/25
pH	8.04	pH units	-	6/11/25
Selenium	<0.001	mg/L	-	6/11/25
Total Suspended Solids	34	mg/L	-	6/11/25
Vanadium	0.0026	mg/L	-	6/11/25
Zinc	<0.005	mg/L	-	6/11/25
Dissolved Oxygen	6.90	mg/L	-	6/11/25
Field Temperature	21	degC	-	6/11/25
Salinity	33.87	ppt	-	6/11/25
Secchi Disk	2.75	m	-	6/11/25
Temperature – Average	24.19	deg C	-	November 25
Temperature – Minimum	17.49	deg C	-	November 25
Temperature - Maximum	26.66	deg C	-	November 25

Eraring Cooling Water Outlet Canal

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

Name	Reading	Units	Licence Limit	Date
Copper	0.0020	mg/L	0.005	6/11/25
Iron	0.157	mg/L	0.3	6/11/25
Selenium	<0.001	mg/L	0.002	6/11/25

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	30.04	deg C	35.5	37.5	38.5	November 25
Temperature – Minimum	24.52	deg C				November 25
Temperature - Maximum	34.48	deg C				November 25

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	0.37	ML		November 25
Average Daily Discharge from Ash Dam	2.46	ML		November 25
Maximum Daily Discharge from Ash Dam	8.11	ML	150	November 25
Monthly Discharge from Ash Dam	73.72	ML	-	November 25

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	0.015	mg/L	-	6/11/25
Ammonia	3.25	mg/L	-	6/11/25
Arsenic III	0.0046	mg/L	-	6/11/25
Arsenic V	0.0007	mg/L	-	6/11/25
Cadmium	<0.00005	mg/L	-	6/11/25
Chromium (Trivalent)	<0.001	mg/L	-	6/11/25
Chromium (VI) Compounds	<0.01	mg/L	-	6/11/25
Copper	<0.0005	mg/L	-	6/11/25
Iron	5.38	mg/L	-	6/11/25
Lead	<0.0001	mg/L	-	6/11/25
Manganese	0.912	mg/L	-	6/11/25
Nickel	0.0028	mg/L	-	6/11/25
Nitrite and Nitrate as N	0.136	mg/L	-	6/11/25
Nitrogen	3.35	mg/L	-	6/11/25
pH	8.10	pH units	6-9.5	6/11/25
Phosphorus as P	0.466	mg/L	-	6/11/25
Reactive Phosphorus as P	0.033	mg/L	-	6/11/25
Selenium	0.0006	mg/L	-	6/11/25
Total Kjeldahl Nitrogen	3.21	mg/L	-	6/11/25
Total Suspended Solids	22	mg/L	50	6/11/25
Vanadium	0.0005	mg/L	-	6/11/25
Zinc	0.003	mg/L	-	6/11/25

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	-	6/11/25
Ammonia		mg/L	-	6/11/25
Arsenic III		mg/L	-	6/11/25
Arsenic V		mg/L	-	6/11/25
Cadmium		mg/L	-	6/11/25
Chromium (Trivalent)		mg/L	-	6/11/25
Chromium (VI) Compounds		mg/L	-	6/11/25
Copper		mg/L	-	6/11/25
Iron		mg/L	-	6/11/25
Lead		mg/L	-	6/11/25
Manganese		mg/L	-	6/11/25
Nickel		mg/L	-	6/11/25
Nitrite and Nitrate as N		mg/L	-	6/11/25
Nitrogen		mg/L	-	6/11/25
pH		pH units	6-9.5	6/11/25
Phosphorus as P		mg/L	-	6/11/25
Reactive Phosphorus as P		mg/L	-	6/11/25
Selenium		mg/L	-	6/11/25
Total Kjeldahl Nitrogen		mg/L	-	6/11/25
Total Suspended Solids		mg/L	50	6/11/25
Vanadium		mg/L	-	6/11/25
Zinc		mg/L	-	6/11/25

Groundwater Monitoring
Groundwater Well – MW01

EPA Identification no. 32 – Groundwater Monitoring Well 01

Name	Reading	Units	Licence Limit	Date
Aluminium	0.204	mg/L	-	16/09/25
Ammonia	0.03	mg/L	-	16/09/25
Arsenic (III)	<0.0005	mg/L	-	16/09/25
Arsenic (V)	<0.0005	mg/L	-	16/09/25
Cadmium	0.00006	mg/L	-	16/09/25
Calcium	2	mg/L	-	16/09/25
Chromium (trivalent)	<0.01	mg/L	-	16/09/25
Chromium (VI) compounds	<0.01	mg/L	-	16/09/25
Copper	0.0008	mg/L	-	16/09/25
Electrical Conductivity	413	uS/cm	-	16/09/25
Iron	0.794	mg/L	-	16/09/25
Lead	0.0014	mg/L	-	16/09/25
Magnesium	5	mg/L	-	16/09/25
Manganese	0.145	mg/L	-	16/09/25
Nickel	0.005	mg/L	-	16/09/25
pH	5.01	pH units	-	16/09/25
Potassium	4	mg/L	-	16/09/25
Selenium	<0.0002	mg/L	-	16/09/25
Sodium	74	mg/L	-	16/09/25
Standing Water Level	5.73	m	-	16/09/25
Vanadium	0.0006	mg/L	-	16/09/25
Zinc	0.029	mg/L	-	16/09/25

Groundwater Monitoring
Groundwater Well – MW02

EPA Identification no. 33 – Groundwater Monitoring Well 02

Name	Reading	Units	Licence Limit	Date
Aluminium	1.740	mg/L	-	15/09/25
Ammonia	6.30	mg/L	-	15/09/25
Arsenic (III)	0.0036	mg/L	-	15/09/25
Arsenic (V)	0.0018	mg/L	-	15/09/25
Cadmium	0.00018	mg/L	-	15/09/25
Calcium	218	mg/L	-	15/09/25
Chromium (trivalent)	<0.01	mg/L	-	15/09/25
Chromium (VI) compounds	<0.01	mg/L	-	15/09/25
Copper	0.0028	mg/L	-	15/09/25
Electrical Conductivity	15400	uS/cm	-	15/09/25
Iron	12.000	mg/L	-	15/09/25
Lead	0.0061	mg/L	-	15/09/25
Magnesium	260	mg/L	-	15/09/25
Manganese	0.645	mg/L	-	15/09/25
Nickel	0.0022	mg/L	-	15/09/25
pH	6.61	pH units	-	15/09/25
Potassium	122	mg/L	-	15/09/25
Selenium	0.0009	mg/L	-	15/09/25
Sodium	3060	mg/L	-	15/09/25
Standing Water Level	5.20	m	-	15/09/25
Vanadium	0.010	mg/L	-	15/09/25
Zinc	0.051	mg/L	-	15/09/25

Groundwater Monitoring
Groundwater Well – MW06

EPA Identification no. 34 – Groundwater Monitoring Well 06

Name	Reading	Units	Licence Limit	Date
Aluminium	0.021	mg/L	-	15/09/25
Ammonia	3.29	mg/L	-	15/09/25
Arsenic (III)	0.0041	mg/L	-	15/09/25
Arsenic (V)	0.0017	mg/L	-	15/09/25
Cadmium	<0.00005	mg/L	-	15/09/25
Calcium	450	mg/L	-	15/09/25
Chromium (trivalent)	<0.01	mg/L	-	15/09/25
Chromium (VI) compounds	<0.01	mg/L	-	15/09/25
Copper	<0.0005	mg/L	-	15/09/25
Electrical Conductivity	18800	uS/cm	-	15/09/25
Iron	10.300	mg/L	-	15/09/25
Lead	0.0006	mg/L	-	15/09/25
Magnesium	242	mg/L	-	15/09/25
Manganese	0.372	mg/L	-	15/09/25
Nickel	0.0007	mg/L	-	15/09/25
pH	6.74	pH units	-	15/09/25
Potassium	118	mg/L	-	15/09/25
Selenium	0.0006	mg/L	-	15/09/25
Sodium	3380	mg/L	-	15/09/25
Standing Water Level	1.79	m	-	15/09/25
Vanadium	0.0011	mg/L	-	15/09/25
Zinc	0.012	mg/L	-	15/09/25

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	1.160	mg/L	-	16/09/25
Ammonia	0.01	mg/L	-	16/09/25
Arsenic (III)	<0.0005	mg/L	-	16/09/25
Arsenic (V)	<0.0005	mg/L	-	16/09/25
Cadmium	<0.00005	mg/L	-	16/09/25
Calcium	2	mg/L	-	16/09/25
Chromium (trivalent)	<0.01	mg/L	-	16/09/25
Chromium (VI) compounds	<0.01	mg/L	-	16/09/25
Copper	0.0015	mg/L	-	16/09/25
Electrical Conductivity	89	uS/cm	-	16/09/25
Iron	1.080	mg/L	-	16/09/25
Lead	0.001	mg/L	-	16/09/25
Magnesium	2	mg/L	-	16/09/25
Manganese	0.004	mg/L	-	16/09/25
Nickel	0.001	mg/L	-	16/09/25
pH	5.68	pH units	-	16/09/25
Potassium	<1	mg/L	-	16/09/25
Selenium	0.0004	mg/L	-	16/09/25
Sodium	16	mg/L	-	16/09/25
Standing Water Level	1.48	m	-	16/09/25
Vanadium	0.0032	mg/L	-	16/09/25
Zinc	0.006	mg/L	-	16/09/25

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	