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

Environmental Monitoring Data April 2023



Unit 1A Boiler Continuous Emission Monitoring Summary

EPA Identification no.7 - Air emissions monitoring, Boiler 1 stack discharge to air
Unit 1A Unit Out of Service 4-5, 15-17, 21-26 and 28 April 2023
SO_2 Unit Out of Service 18, 27 and 29-30 April 2023

	NOx			SO_2		
	mg/Nm³ (7% O_2)			mg/Nm³ (7% O_2)		
	Daily Ave	Max Hourly	Min Hourly	Daily Ave	Max Hourly	Min Hourly
1 April	336	394	275	636	680	577
2 April	314	360	275	593	728	504
3 April	349	393	260	608	695	547
4 April	-	-	-	-	-	-
5 April	-	-	-	-	-	-
6 April	340	387	278	594	662	524
7 April	316	381	280	544	609	460
8 April	324	352	296	635	711	567
9 April	338	388	312	625	706	575
10 April	349	388	295	612	713	564
11 April	387	446	317	580	680	475
12 April	369	458	315	614	710	540
13 April	397	479	340	582	654	364
14 April	343	381	305	611	706	525
15 April	-	-	-	-	-	-
16 April	-	-	-	-	-	-
17 April	-	-	-	-	-	-
18 April	411	520	332	-	-	-
19 April	398	504	366	588	701	534
20 April	381	414	355	631	674	585
21 April	-	-	-	-	-	-
22 April	-	-	-	-	-	-
23 April	-	-	-	-	-	-
24 April	-	-	-	-	-	-
25 April	-	-	-	-	-	-
26 April	-	-	-	-	-	-
27 April	385	435	333	-	-	-
28 April	-	-	-	-	-	-
29 April	337	363	305	-	-	-
30 April	335	361	311	-	-	-

Unit 1B Boiler Continuous Emission Monitoring Summary

EPA Identification no.7 - Air emissions monitoring, Boiler 1 stack discharge to air
Unit 1B Unit Out of Service of 4-5, 24, 26 and 28 April 2023.
NOx Unit Out of Service 25 and 29-30 April 2023.

	NOx			SO_2		
	mg/Nm^3 (7% O_2)			mg/Nm^3 (7% O_2)		
	Daily Ave	Max Hourly	Min Hourly	Daily Ave	Max Hourly	Min Hourly
1 April	320	406	247	675	700	639
2 April	288	366	114	691	726	665
3 April	363	438	258	683	716	653
4 April	-	-	-	-	-	-
5 April	-	-	-	-	-	-
6 April	325	386	280	654	696	633
7 April	307	366	259	627	683	594
8 April	309	333	276	780	830	715
9 April	319	355	283	728	796	668
10 April	338	399	281	697	745	662
11 April	379	474	300	669	714	642
12 April	339	415	284	689	764	558
13 April	343	399	298	670	708	629
14 April	322	370	283	758	860	640
15 April	367	418	323	735	807	660
16 April	382	457	315	701	796	644
17 April	400	467	363	636	765	583
18 April	348	416	290	741	878	646
19 April	401	442	336	653	680	601
20 April	381	438	337	699	732	664
21 April	339	366	309	635	705	579
22 April	350	432	301	688	767	643
23 April	347	399	296	663	709	614
24 April	-	-	-	-	-	-
25 April	-	-	-	692	752	654
26 April	-	-	-	-	-	-
27 April	351	441	279	636	671	599
28 April	-	-	-	-	-	-
29 April	-	-	-	745	796	713
30 April	-	-	-	655	708	615

Unit 2A Boiler Continuous Emission Monitoring Summary

EPA Identification no. 9 - Air emissions monitoring, Boiler 2 stack discharge to air
Unit 2A Off line 3-22 April 2023
Unit 2A Out of Service24 and 28 April 2023
NOx Unit Out of Service 25-26 April 2023.

	NOx			**SO_2**		
	mg/Nm^3 (7% O_2)			**mg/Nm^3 (7% O_2)**		
	Daily Ave	**Max Hourly**	**Min Hourly**	**Daily Ave**	**Max Hourly**	**Min Hourly**
1 April	376	415	315	549	571	515
2 April	393	476	323	561	597	536
3 April	-	-	-	-	-	-
4 April	-	-	-	-	-	-
5 April	-	-	-	-	-	-
6 April	-	-	-	-	-	-
7 April	-	-	-	-	-	-
8 April	-	-	-	-	-	-
9 April	-	-	-	-	-	-
10 April	-	-	-	-	-	-
11 April	-	-	-	-	-	-
12 April	-	-	-	-	-	-
13 April	-	-	-	-	-	-
14 April	-	-	-	-	-	-
15 April	-	-	-	-	-	-
16 April	-	-	-	-	-	-
17 April	-	-	-	-	-	-
18 April	-	-	-	-	-	-
19 April	-	-	-	-	-	-
20 April	-	-	-	-	-	-
21 April	-	-	-	-	-	-
22 April	-	-	-	-	-	-
23 April	427	488	351	506	563	461
24 April	-	-	-	-	-	-
25 April	-	-	-	545	595	507
26 April	-	-	-	525	612	431
27 April	345	428	267	516	553	489
28 April	-	-	-	-	-	-
29 April	316	364	271	607	665	558
30 April	274	355	237	536	568	495

Unit 2B Boiler Continuous Emission Monitoring Summary

EPA Identification no. 10 - Air emissions monitoring, Boiler 2 stack discharge to air
Unit 2A Off line 3-22 April 2023
Unit 2B Unit Out of Service, 24-26 and 28 April 2023
NOx Unit Out of Service 2 April 2023.
SO_2 Unit Out of service 27 and 29-30 April 2023

	NOx			**SO_2**		
	mg/Nm^3 (7% O_2)			**mg/Nm^3 (7% O_2)**		
	Daily Ave	**Max Hourly**	**Min Hourly**	**Daily Ave**	**Max Hourly**	**Min Hourly**
1 April	268	370	205	386	546	276
2 April	-	-	-	497	715	372
3 April	-	-	-	-	-	-
4 April	-	-	-	-	-	-
5 April	-	-	-	-	-	-
6 April	-	-	-	-	-	-
7 April	-	-	-	-	-	-
8 April	-	-	-	-	-	-
9 April	-	-	-	-	-	-
10 April	-	-	-	-	-	-
11 April	-	-	-	-	-	-
12 April	-	-	-	-	-	-
13 April	-	-	-	-	-	-
14 April	-	-	-	-	-	-
15 April	-	-	-	-	-	-
16 April	-	-	-	-	-	-
17 April	-	-	-	-	-	-
18 April	-	-	-	-	-	-
19 April	-	-	-	-	-	-
20 April	-	-	-	-	-	-
21 April	-	-	-	-	-	-
22 April	-	-	-	-	-	-
23 April	370	462	323	456	485	403
24 April	-	-	-	-	-	-
25 April	-	-	-	-	-	-
26 April	-	-	-	-	-	-
27 April	247	388	154	-	-	-
28 April	-	-	-	-	-	-
29 April	164	293	125	-	-	-
30 April	165	202	120	-	-	-

Unit 3A Boiler Continuous Emission Monitoring Summary

EPA Identification no. 11 - Air emissions monitoring, Boiler 3 stack discharge to air
Unit 3A Out of service 23-30 April 2023
SO_2 Unit Out of service 11 April 2023

	NOx			SO_2		
	mg/Nm^3 (7% O_2)			mg/Nm^3 (7% O_2)		
	Daily Ave	Max Hourly	Min Hourly	Daily Ave	Max Hourly	Min Hourly
1 April	290	403	229	670	702	644
2 April	286	318	238	673	701	639
3 April	311	365	217	665	678	628
4 April	353	459	271	659	690	623
5 April	371	434	268	666	698	632
6 April	317	400	257	639	691	596
7 April	290	359	241	609	646	566
8 April	301	342	281	744	809	677
9 April	312	355	279	719	830	618
10 April	335	435	277	686	731	632
11 April	341	418	273	-	-	-
12 April	312	358	259	669	706	638
13 April	328	384	270	624	650	599
14 April	338	388	254	711	838	566
15 April	338	463	287	738	805	690
16 April	388	522	311	683	762	657
17 April	444	546	333	670	785	592
18 April	369	481	302	765	824	698
19 April	357	423	309	703	800	641
20 April	353	403	289	749	785	714
21 April	344	394	297	670	772	630
22 April	330	377	283	706	754	672
23 April	-	-	-	-	-	-
24 April	-	-	-	-	-	-
25 April	-	-	-	-	-	-
26 April	-	-	-	-	-	-
27 April	-	-	-	-	-	-
28 April	-	-	-	-	-	-
29 April	-	-	-	-	-	-
30 April	-	-	-	-	-	-

Unit 3B Boiler Continuous Emission Monitoring Summary

EPA Identification no. 12 - Air emissions monitoring, Boiler 3 stack discharge to air
Unit 3B Out of Service 24 and 30 April 2023
NOx Unit Out of Service 15-17 and 22-23 April 2023

	NOx			SO_2		
	mg/Nm^3 (7% O_2)			mg/Nm^3 (7% O_2)		
	Daily Ave	Max Hourly	Min Hourly	Daily Ave	Max Hourly	Min Hourly
1 April	-	-	-	-	-	-
2 April	296	347	251	665	695	649
3 April	326	387	234	659	676	632
4 April	369	476	295	655	680	624
5 April	392	460	284	665	705	632
6 April	349	392	293	642	679	610
7 April	302	353	260	609	646	577
8 April	285	305	270	697	785	578
9 April	266	309	229	606	750	500
10 April	304	406	241	585	670	516
11 April	315	374	223	575	659	506
12 April	320	412	226	642	684	526
13 April	349	418	295	623	640	593
14 April	324	387	192	715	775	641
15 April	-	-	-	695	747	650
16 April	-	-	-	652	702	625
17 April	-	-	-	637	748	568
18 April	355	459	301	721	789	660
19 April	364	450	296	662	747	600
20 April	342	383	300	704	739	664
21 April	341	386	303	631	689	597
22 April	-	-	-	673	723	640
23 April	-	-	-	637	670	603
24 April	-	-	-	-	-	-
25 April	347	416	297	674	698	638
26 April	313	407	275	671	730	622
27 April	335	405	269	638	688	600
28 April	312	381	268	682	729	655
29 April	320	360	259	749	807	695
30 April	-	-	-	-	-	-

Unit 4A Boiler Continuous Emission Monitoring Summary

EPA Identification no. 13 - Air emissions monitoring, Boiler 4 stack discharge to air
Unit 4A Out of Service 14-15 and 18-19 April 2023
NOx Unit Out of Service 26-27 April 2023
SO_2 Unit Out of service 12-13 and 17 April 2023

	NOx			**SO_2**		
	mg/Nm^3 (7% O_2)			**mg/Nm^3 (7% O_2)**		
	Daily Ave	**Max Hourly**	**Min Hourly**	**Daily Ave**	**Max Hourly**	**Min Hourly**
1 April	286	312	236	631	667	562
2 April	300	351	240	628	664	574
3 April	320	371	266	614	660	556
4 April	341	379	299	597	631	553
5 April	304	357	249	617	648	551
6 April	314	358	254	624	656	556
7 April	294	342	236	579	622	552
8 April	313	344	273	699	748	608
9 April	299	331	216	656	721	596
10 April	340	398	168	628	659	598
11 April	314	387	227	609	643	525
12 April	301	369	238	-	-	-
13 April	324	377	251	-	-	-
14 April	-	-	-	-	-	-
15 April	-	-	-	-	-	-
16 April	349	477	253	635	720	574
17 April	396	444	335	-	-	-
18 April	-	-	-	-	-	-
19 April	-	-	-	-	-	-
20 April	361	437	290	630	672	569
21 April	369	435	168	591	637	541
22 April	386	592	263	630	695	585
23 April	367	492	291	588	620	563
24 April	323	394	171	605	671	539
25 April	338	469	169	616	678	560
26 April	-	-	-	633	720	554
27 April	-	-	-	600	643	541
28 April	347	431	244	637	668	567
29 April	377	423	318	707	795	611
30 April	352	411	291	627	696	551

Unit 4B Boiler Continuous Emission Monitoring Summary

EPA Identification no. 14 – 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	Max Hourly	Min Hourly	Daily Ave	Max Hourly	Min Hourly
1 April	299	371	254	649	716	538
2 April	338	447	252	658	734	418
3 April	373	462	265	636	714	444
4 April	388	451	244	629	718	230
5 April	386	483	255	678	725	566
6 April	375	449	283	660	728	564
7 April	307	376	227	583	664	260
8 April	307	335	254	703	790	480
9 April	311	376	251	686	753	563
10 April	353	470	292	672	719	582
11 April	368	446	277	663	720	538
12 April	348	436	265	670	712	563
13 April	385	454	310	648	702	423
14 April	371	469	263	721	855	544
15 April	344	456	253	718	804	601
16 April	409	616	267	672	757	544
17 April	547	657	420	607	707	431
18 April	469	557	357	740	832	527
19 April	426	557	299	628	779	384
20 April	404	466	323	655	749	225
21 April	397	500	286	624	699	425
22 April	424	566	250	637	723	413
23 April	380	535	272	596	664	304
24 April	347	488	255	651	755	394
25 April	327	449	246	653	748	379
26 April	346	539	248	654	791	489
27 April	372	484	281	622	680	528
28 April	351	482	257	681	746	552
29 April	405	464	310	766	892	565
30 April	360	474	295	666	786	560

Unit 1 Boiler Emission Test Results

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

Name	Reading	Units	Licence Limit	Date
Chlorine	0.014	mg/m^3	20	20/12/2022
Fluorine	9.8	mg/m^3	30	20/12/2022
Hydrogen chloride	13	mg/m^3	50	20/12/2022
Solid Particles	1.7	mg/m^3	50	20/12/2022
Sulfuric acid mist and sulfur trioxide (as SO3)	4.7	mg/m^3	100	20/12/2022
Volatile organic compounds as n-propane equivalent	<0.01	mg/m^3	10	20/12/2022
Cadmium	<0.0002	mg/m^3	0.2	28/02/2023
Mercury	<0.0004	mg/m^3	0.05	28/02/2023
Solid Particles	1.7	mg/m^3	50	28/02/2023
Type 1 and 2 substances in Aggregate	<0.03	mg/m^3	0.75	28/02/2023

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

Name	Reading	Units	Licence Limit	Date
Flow Rate	210	m3/sec		28/02/2023
Moisture	5.5	%		28/02/2023
Oxygen	9.3	%		20/12/2022
Solid Particles	3.1	mg/m3		20/12/2022
Temperature	118	degC		20/12/2022
Carbon dioxide	10.5	%		20/12/2022
Chlorine	0.014	mg/m3		20/12/2022
Fluorine	9.8	mg/m3		20/12/2022
Hydrogen chloride	13	mg/m3		20/12/2022
Sulfuric acid mist and sulfur trioxide (as SO3)	4.7	mg/m3		20/12/2022
Volatile organic compounds as n-propane equivalent	<0.01	mg/m3		20/12/2022
Cadmium	<0.0002	mg/m3		28/02/2023
Flow Rate	230	m3/sec		28/02/2023
Mercury	0.00044	mg/m3		28/02/2023
Moisture	5.7	%		28/02/2023
Oxygen	8.3	%		28/02/2023
Solid Particles	1.5	mg/m3		28/02/2023
Temperature	110	degC		28/02/2023
Type 1 and Type 2 substances in Aggregate	<0.012	mg/m3		28/02/2023
Carbon dioxide	10.9	%		28/02/2023

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

Name	Reading	Units	Licence Limit	Date
Flow Rate	220	m3/sec		21/12/2022
Moisture	5.0	%		21/12/2022
Oxygen	8.8	%		21/12/2022
Solid Particles	1.5	mg/m3		21/12/2022
Temperature	120	degC		21/12/2022
Carbon dioxide	10.9	%		21/12/2022
Cadmium	<0.0003	mg/m3		28/02/2023
Flow Rate	220	m3/sec		28/02/2023
Mercury	<0.0003	mg/m3		28/02/2023
Moisture	5.0	%		28/02/2023
Oxygen	8.8	%		28/02/2023
Solid Particles	1.9	mg/m3		28/02/2023
Temperature	109	degC		28/02/2023
Type 1 and Type 2 substances in Aggregate	<0.041	mg/m3		28/02/2023
Carbon dioxide	11.3	%		28/02/2023

Unit 2 Boiler Emission Test Results

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

Name	Reading	Units	Licence Limit	Date
Chlorine	<0.02	mg/m^3	20	23/11/2022
Fluorine	17	mg/m^3	30	23/11/2022
Hydrogen chloride	16	mg/m^3	50	23/11/2022
Solid Particles	6.9	mg/m^3	50	23/11/2022
Sulfuric acid mist and sulfur trioxide (as SO3)	1.9	mg/m^3	100	23/11/2022
Volatile organic compounds as n-propane equivalent	0.033	mg/m^3	10	23/11/2022
Cadmium	<0.0003	mg/m^3	0.2	28/02/2023
Mercury	0.0024	mg/m^3	0.05	28/02/2023
Solid Particles	16	mg/m3	50	28/02/2023
Type 1 and 2 substances in Aggregate	<0.06	mg/m3	0.75	28/02/2023

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

Name	Reading	Units	Licence Limit	Date
Flow Rate	230	m3/sec		23/11/2022
Moisture	5.1	%		23/11/2022
Oxygen	8.9	%		23/11/2022
Solid Particles	11	mg/m3		23/11/2022
Temperature	122	degC		23/11/2022
Carbon dioxide	10.8	%		23/11/2022
Chlorine	<0.02	mg/m3		23/11/2022
Fluorine	17	mg/m3		23/11/2022
Hydrogen chloride	16	mg/m3		23/11/2022
Sulfuric acid mist and sulfur trioxide (as SO3)	1.9	mg/m3		23/11/2022
Volatile organic compounds as n-propane equivalent	0.033	mg/m3		23/11/2022
Cadmium	<0.0003	mg/m3		28/02/2023
Flow Rate	240	m3/sec		28/02/2023
Mercury	0.0023	mg/m3		28/02/2023
Moisture	5.8	%		28/02/2023
Oxygen	10.3	%		28/02/2023
Solid Particles	29	mg/m3		28/02/2023
Temperature	124	degC		28/02/2023
Type 1 and Type 2 substances in Aggregate	<0.11	mg/m3		28/02/2023
Carbon dioxide	9.5	%		28/02/2023

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

Name	Reading	Units	Licence Limit	Date
Flow Rate	210	m3/sec		23/11/2022
Moisture	5.2	%		23/11/2022
Oxygen	9.3	%		23/11/2022
Solid Particles	2.5	mg/m3		23/11/2022
Temperature	107	degC		23/11/2022
Carbon dioxide	11.2	%		23/11/2022
Cadmium	<0.0002	mg/m3		28/02/2023
Flow Rate	220	m3/sec		28/02/2023
Mercury	0.0025	mg/m3		28/02/2023
Moisture	5.9	%		28/02/2023
Oxygen	9.0	%		28/02/2023
Solid Particles	2.4	mg/m3		28/02/2023
Temperature	118	degC		28/02/2023
Type 1 and Type 2 substances in Aggregate	<0.014	mg/m3		28/02/2023
Carbon dioxide	10.3	%		28/02/2023

Unit 3 Boiler Emission Test Results

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

Name	Reading	Units	Licence Limit	Date
Chlorine	<0.02	mg/m3	20	22/11/2022
Fluorine	15	mg/m3	30	22/11/2022
Hydrogen chloride	9.4	mg/m3	50	22/11/2022
Solid Particles	2	mg/m3	50	22/11/2022
Sulfuric acid mist and sulfur trioxide (as SO3)	1.7	mg/m3	100	22/11/2022
Volatile organic compounds as n-propane equivalent	<0.04	mg/m3	10	22/11/2022
Cadmium	<0.0003	mg/m3	0.2	1/03/2023
Mercury	0.00058	mg/m3	0.05	1/03/2023
Solid Particles	4	mg/m3	50	1/03/2023
Type 1 and 2 substances in Aggregate	<0.03	mg/m3	0.75	1/03/2023

EPA Identification no. 11 - Air emissions monitoring, Boiler 3 Exhaust Duct A

Name	Reading	Units	Licence Limit	Date
Flow Rate	200	m3/sec		22/11/2022
Moisture	5.6	%		22/11/2022
Oxygen	8	%		22/11/2022
Solid Particles	1.6	mg/m3		22/11/2022
Temperature	110	degC		22/11/2022
Carbon dioxide	12.2	%		22/11/2022
Chlorine	<0.02	mg/m3		22/11/2022
Fluorine	15	mg/m3		22/11/2022
Hydrogen chloride	9.4	mg/m3		22/11/2022
Sulfuric acid mist and sulfur trioxide (as SO3)	1.7	mg/m3		22/11/2022
Volatile organic compounds as n-propane equivalent	<0.04	mg/m3		22/11/2022
Cadmium	<0.0003	mg/m3		1/03/2023
Flow Rate	320	m3/sec		1/03/2023
Mercury	0.00052	mg/m3		1/03/2023
Moisture	3.9	%		1/03/2023
Oxygen	12.2	%		1/03/2023
Solid Particles	3	mg/m3		1/03/2023
Temperature	92	degC		1/03/2023
Type 1 and Type 2 substances in Aggregate	<0.017	mg/m3		1/03/2023
Carbon dioxide	7.6	%		1/03/2023

EPA Identification no. 12 - Air emissions monitoring, Boiler 3 Exhaust Duct B

Name	Reading	Units	Licence Limit	Date
Flow Rate	200	m3/sec		22/11/2022
Moisture	5.1	%		22/11/2022
Oxygen	8.6	%		22/11/2022
Solid Particles	2.4	mg/m3		22/11/2022
Temperature	126	degC		22/11/2022
Carbon dioxide	11	%		22/11/2022
Cadmium	<0.0003	mg/m3		1/03/2023
Flow Rate	240	m3/sec		1/03/2023
Mercury	0.00065	mg/m3		1/03/2023
Moisture	5.6	%		1/03/2023
Oxygen	9.9	%		1/03/2023
Solid Particles	5.3	mg/m3		1/03/2023
Temperature	113	degC		1/03/2023
Type 1 and Type 2 substances in Aggregate	<0.052	mg/m3		1/03/2023
Carbon dioxide	10.1	%		1/03/2023

Unit 4 Boiler Emission Test Results

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

Name	Reading	Units	Licence Limit	Date
Chlorine	<0.02	mg/m3	20	24/11/2022
Fluorine	14	mg/m3	30	24/11/2022
Hydrogen chloride	18	mg/m3	50	24/11/2022
Solid Particles	2.2	mg/m3	50	24/11/2022
Sulfuric acid mist and sulfur trioxide (as SO3)	2.9	mg/m3	100	24/11/2022
Volatile organic compounds as n-propane equivalent	<0.09	mg/m3	10	24/11/2022
Cadmium	<0.0002	mg/m3	0.2	1/03/2023
Mercury	0.0016	mg/m3	0.05	1/03/2023
Solid Particles	5.4	mg/m3	50	1/03/2023
Type 1 and 2 substances in Aggregate	<0.02	mg/m3	0.75	1/03/2023

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

Name	Reading	Units	Licence Limit	Date
Flow Rate	220	m^3/sec		24/11/2022
Moisture	5.3	%		24/11/2022
Oxygen	8.9	%		24/11/2022
Solid Particles	2.4	mg/m^3		24/11/2022
Temperature	111	degC		24/11/2022
Carbon dioxide	11.9	%		24/11/2022
Chlorine	<0.02	mg/m^3		24/11/2022
Fluorine	14	mg/m^3		24/11/2022
Hydrogen chloride	18	mg/m^3		24/11/2022
Sulfuric acid mist and sulfur trioxide (as SO3)	2.9	mg/m^3		24/11/2022
Volatile organic compounds as n-propane equivalent	<0.09	mg/m^3		24/11/2022
Cadmium	<0.0003	mg/m^3		1/03/2023
Flow Rate	240	m^3/sec		1/03/2023
Mercury	0.0023	mg/m^3		1/03/2023
Moisture	5.1	%		1/03/2023
Oxygen	11	%		1/03/2023
Solid Particles	5.7	mg/m^3		1/03/2023
Temperature	114	degC		1/03/2023
Type 1 and Type 2 substances in Aggregate	<0.034	mg/m^3		1/03/2023
Carbon dioxide	8.9	%		1/03/2023

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

Name	Reading	Units	Licence Limit	Date
Flow Rate	180	m^3/sec		24/11/2022
Moisture	5.2	%		24/11/2022
Oxygen	9.5	%		24/11/2022
Solid Particles	1.9	mg/m^3		24/11/2022
Temperature	107	degC		24/11/2022
Carbon dioxide	10.3	%		24/11/2022
Cadmium	<0.0002	mg/m^3		1/03/2023
Flow Rate	260	m^3/sec		1/03/2023
Mercury	0.00099	mg/m^3		1/03/2023
Moisture	4.7	%		1/03/2023
Oxygen	8.5	%		1/03/2023
Solid Particles	5.2	mg/m^3		1/03/2023
Temperature	117	degC		1/03/2023
Type 1 and Type 2 substances in Aggregate	<0.015	mg/m^3		1/03/2023
Carbon dioxide	11	%		1/03/2023

Eraring Depositional Dust Gauges

EPA Identification no.17, 18, 19 & 20 - Depositional dust monitoring within 1km of the coal handling operations

Eraring Identification	EPA Identification No	Deposited Matter		
		g/m2/month		
		Ash	Combustible	Insoluble
E2	17	0.5	0.1	0.6
E4	18	4.2	0.8	5.0
E6	19	0.6	0.3	0.9
U6	20	0.4	0.4	0.8

Water Quality - Lake Monitoring LM10

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

Air Temp	Depth	Water Temp	pH	Salinity	Dissolved Oxygen		Secchi
^{0}C	m	degC	pH unit	ppt	%	mg/L	m
23.19	0.5	24.20	8.03	34.9	98.4	6.55	2.75

Name	Reading	Units	Date
Aluminium	0.02	mg/L	3/04/2023
Ammonia	<0.005	mg/L	3/04/2023
Arsenic III	<0.004	mg/	3/04/2023
Arsenic V	<0.004	mg/L	3/04/2023
Cadmium	<0.0002	mg/L	3/04/2023
Chromium (Trivalent)	<0.001	mg/L	3/04/2023
Chromium (VI) Compounds	<0.001	mg/L	3/04/2023
Copper	0.001	mg/L	3/04/2023
Iron	0.025	mg/L	3/04/2023
Lead	<0.0002	mg/L	3/04/2023
Manganese	0.0041	mg/L	3/04/2023
Nickel	<0.0005	mg/L	3/04/2023
pH	8.1	pH units	3/04/2023
Selenium	<0.002	mg/L	3/04/2023
Total Suspended Solids	<5	mg/L	3/04/2023
Vanadium	0.0026	mg/L	3/04/2023
Zinc	<0.005	mg/L	3/04/2023

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

Air Temp	Depth	Water Temp	pH	Salinity	Dissolved Oxygen		Secchi
^{0}C	m	degC	pH unit	ppt	%	mg/L	m
18.86	0.5	23.80	8.05	35.3	89.2	5.97	2.25

Name	Reading	Units	Date
Aluminium	0.036	mg/L	3/04/2023
Ammonia	<0.005	mg/L	3/04/2023
Arsenic III	<0.004	mg/L	3/04/2023
Arsenic V	<0.004	mg/L	3/04/2023
Cadmium	<0.0002	mg/L	3/04/2023
Chromium (Trivalent)	<0.001	mg/L	3/04/2023
Chromium (VI) Compounds	<0.001	mg/L	3/04/2023
Copper	0.002	mg/L	3/04/2023
Iron	0.029	mg/L	3/04/2023
Lead	<0.0002	mg/L	3/04/2023
Manganese	0.0053	mg/L	3/04/2023
Nickel	0.0008	mg/L	3/04/2023
pH	8.1	pH units	3/04/2023
Selenium	<0.002	mg/L	3/04/2023
Total Suspended Solids	<5	mg/L	3/04/2023
Vanadium	0.0025	mg/L	3/04/2023
Zinc	<0.005	mg/L	3/04/2023

Water Quality - Lake Monitoring LM4

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

Air Temp	Depth	Water Temp	pH	Salinity	Dissolved Oxygen		Secchi
^{0}C	m	degC	pH unit	ppt	%	mg/L	m
18.81	0.5	22.26	8.23	33.9	91.5	6.35	2.75

Name	Reading	Units	Date
Aluminium	<0.005	mg/L	3/04/2023
Ammonia	<0.005	mg/L	3/04/2023
Arsenic III	<0.004	mg/L	3/04/2023
Arsenic V	<0.004	mg/L	3/04/2023
Cadmium	<0.0002	mg/L	3/04/2023
Chromium (Trivalent)	<0.001	mg/L	3/04/2023
Chromium (VI) Compounds	<0.001	mg/L	3/04/2023
Copper	<0.001	mg/L	3/04/2023
Iron	<0.005	mg/L	3/04/2023
Lead	<0.0002	mg/L	3/04/2023
Manganese	0.0022	mg/L	3/04/2023
Nickel	<0.0005	mg/L	3/04/2023
pH	8.14	pH units	3/04/2023
Selenium	<0.002	mg/L	3/04/2023
Total Suspended Solids	<5	mg/L	3/04/2023
Vanadium	0.0018	mg/L	3/04/2023
Zinc	<0.005	mg/L	3/04/2023

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

Air Temp	Depth	Water Temp	pH	Salinity	Dissolved Oxygen		Secchi
^{0}C	m	degC	pH unit	ppt	%	mg/L	m
21.29	0.5	26.50	8.00	35.1	99.0	6.36	2.25

Name	Reading	Units	Date
Aluminium	0.022	mg/L	3/04/2023
Ammonia	<0.005	mg/L	3/04/2023
Arsenic III	<0.004	mg/L	3/04/2023
Arsenic V	<0.004	mg/L	3/04/2023
Cadmium	<0.0002	mg/L	3/04/2023
Chromium (Trivalent)	<0.001	mg/L	3/04/2023
Chromium (VI) Compounds	<0.001	mg/L	3/04/2023
Copper	0.0020	mg/L	3/04/2023
Iron	0.028	mg/L	3/04/2023
Lead	<0.0002	mg/L	3/04/2023
Manganese	0.0054	mg/L	3/04/2023
Nickel	0.0008	mg/L	3/04/2023
pH	8.07	pH units	3/04/2023
Selenium	<0.002	mg/L	3/04/2023
Total Suspended Solids	<5	mg/L	3/04/2023
Vanadium	0.0024	mg/L	3/04/2023
Zinc	<0.005	mg/L	3/04/2023

Eraring Ash Dam Effluent Quality Monitoring

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

Name	Reading	Units	Licence Limit	Date
Aluminium	0.066	mg/L	-	3/04/2023
Ammonia	0.72	mg/L	-	3/04/2023
Arsenic III	<0.0005	mg/L	-	3/04/2023
Arsenic V	0.0081	mg/L	-	3/04/2023
Cadmium	0.00007	mg/L	-	3/04/2023
Chromium (Trivalent)	<0.001	mg/L	-	3/04/2023
Chromium (VI) Compounds	<0.01	mg/L	-	3/04/2023
Copper	0.0026	mg/L	-	3/04/2023
Iron	0.041	mg/L	-	3/04/2023
Lead	<0.0001	mg/L	-	3/04/2023
Manganese	0.0781	mg/L	-	3/04/2023
Nickel	0.0020	mg/L	-	3/04/2023
Nitrite and Nitrate as N	3.65	mg/L	-	3/04/2023
Nitrogen	5	mg/L	-	3/04/2023
pH	8.22	pH units	-	3/04/2023
Phosphorus as P	0.98	mg/L	-	3/04/2023
Reactive Phosphorus as P	0.79	mg/L	-	3/04/2023
Selenium	0.0251	mg/L	-	3/04/2023
Total Kjeldahl Nitrogen	1.4	mg/L	-	3/04/2023
Total Suspended Solids	10	mg/L	-	3/04/2023
Vanadium	0.0345	mg/L	-	3/04/2023
Zinc	0.011	mg/L	-	3/04/2023

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	0.028	mg/L	-	3/04/2023
Ammonia	<0.005	mg/L	-	3/04/2023
Arsenic III	<0.004	mg/L	-	3/04/2023
Arsenic V	<0.004	mg/L	-	3/04/2023
Cadmium	<0.0002	mg/L	-	3/04/2023
Chromium (Trivalent)	<0.001	mg/L	-	3/04/2023
Chromium (VI) Compounds	<0.01	mg/L	-	3/04/2023
Copper	0.0016	mg/L	-	3/04/2023
Iron	0.026	mg/L	-	3/04/2023
Lead	<0.0002	mg/L	-	3/04/2023
Manganese	0.0051	mg/L	-	3/04/2023
Nickel	<0.0005	mg/L	-	3/04/2023
pH	8.09	pH units	-	3/04/2023
Selenium	<0.001	mg/L	-	3/04/2023
Total Suspended Solids	27	mg/L	-	3/04/2023
Vanadium	0.0030	mg/L	-	3/04/2023
Zinc	<0.005	mg/L	-	3/04/2023
Dissolved Oxygen	2.46	mg/L	-	3/04/2023
Field Temperature	24.8	degC	-	3/04/2023
Salinity	35.0	ppt	-	3/04/2023
Secchi Disk	2.75	m	-	3/04/2023
Temperature – Average	22.20	deg C	-	April 2023
Temperature – Minimum	20.72	deg C	-	April 2023
Temperature - Maximum	24.91	deg C	-	April 2023

Eraring Cooling Water Outlet Canal

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

Name	Reading	Units	Licence Limit	Date
Copper	0.0018	mg/L	0.005	3/04/2023
Iron	0.193	mg/L	0.3	3/04/2023
Selenium	<0.001	mg/L	0.002	3/04/2023
Temperature – Average	28.31	deg C	37.5	April 2023
Temperature – Minimum	24.17	deg C	37.5	April 2023
Temperature - Maximum	33.38	deg C	37.5	April 2023
Maximum Daily Discharge from Ash Dam	5.99	ML	150	April 2023
Monthly Discharge from Ash Dam	66.65	ML	-	April 2023

Emergency Discharge – Toe Drain Pond

EPA Identification no. 24 - Emergency discharge to toe drain collection pond
No Discharge during April 2023, background sample only

Name	Reading	Units	Licence Limit	Date
Aluminium	0.01	mg/L	-	3/04/2023
Ammonia	2.93	mg/L	-	3/04/2023
Arsenic III	0.0028	mg/L	-	3/04/2023
Arsenic V	0.0022	mg/L	-	3/04/2023
Cadmium	<0.00005	mg/L	-	3/04/2023
Chromium (Trivalent)	<0.001	mg/L	-	3/04/2023
Chromium (VI) Compounds	<0.01	mg/L	-	3/04/2023
Copper	<0.0005	mg/L	-	3/04/2023
Iron	7.96	mg/L	-	3/04/2023
Lead	<0.0001	mg/L	-	3/04/2023
Manganese	0.906	mg/L	-	3/04/2023
Nickel	0.0013	mg/L	-	3/04/2023
Nitrite and Nitrate as N	0.076	mg/L	-	3/04/2023
Nitrogen	2.33	mg/L	-	3/04/2023
pH	6.79	pH units	6-9.5	3/04/2023
Phosphorus as P	0.486	mg/L	-	3/04/2023
Reactive Phosphorus as P	0.032	mg/L	-	3/04/2023
Selenium	0.0003	mg/L	-	3/04/2023
Total Kjeldahl Nitrogen	2.25	mg/L	-	3/04/2023
Total Suspended Solids	35	mg/L	50	3/04/2023
Vanadium	0.0010	mg/L	-	3/04/2023
Zinc	0.001	mg/L	-	3/04/2023

MR217

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

MR217 did not discharge throughout April 2023

Name	Reading	Units	Licence Limit	Date
Aluminium	2.35	mg/L	-	3/04/2023
Ammonia	0.018	mg/L	-	3/04/2023
Arsenic III	<0.0005	mg/L	-	3/04/2023
Arsenic V	<0.0005	mg/L	-	3/04/2023
Cadmium	0.00006	mg/L	-	3/04/2023
Chromium (Trivalent)	<0.001	mg/L	-	3/04/2023
Chromium (VI) Compounds	<0.01	mg/L	-	3/04/2023
Copper	0.0007	mg/L	-	3/04/2023
Iron	0.575	mg/L	-	3/04/2023
Lead	0.0002	mg/L	-	3/04/2023
Manganese	1.54	mg/L	-	3/04/2023
Nickel	0.011	mg/L	-	3/04/2023
Nitrite and Nitrate as N	0.005	mg/L	-	3/04/2023
Nitrogen	0.16	mg/L	-	3/04/2023
pH	4.31	pH units	6-9.5	3/04/2023
Phosphorus as P	0.026	mg/L	-	3/04/2023
Reactive Phosphorus as P	0.006	mg/L	-	3/04/2023
Selenium	0.0008	mg/L	-	3/04/2023
Total Kjeldahl Nitrogen	0.16	mg/L	-	3/04/2023
Total Suspended Solids	<5	mg/L	50	3/04/2023
Vanadium	<0.0002	mg/L	-	3/04/2023
Zinc	0.042	mg/L	-	3/04/2023

Groundwater Monitoring
Groundwater Well – MW01

EPA Identification no. 32 – Groundwater Monitoring Well 01

Name	Reading	Units	Date
Aluminium	0.130	mg/L	15/03/2023
Ammonia	<0.10	mg/L	15/03/2023
Arsenic (III)	<0.0005	mg/L	15/03/2023
Arsenic (V)	<0.0005	mg/L	15/03/2023
Cadmium	<0.00005	mg/L	15/03/2023
Calcium	2	mg/L	15/03/2023
Chromium (trivalent)	<0.01	mg/L	15/03/2023
Chromium (VI) compounds	<0.01	mg/L	15/03/2023
Copper	0.0010	mg/L	15/03/2023
Electrical Conductivity	423	uS/cm	15/03/2023
Iron	0.224	mg/L	15/03/2023
Lead	0.0007	mg/L	15/03/2023
Magnesium	5	mg/L	15/03/2023
Manganese	0.131	mg/L	15/03/2023
Nickel	0.0045	mg/L	15/03/2023
pH	4.93	pH units	15/03/2023
Potassium	4	mg/L	15/03/2023
Selenium	0.0002	mg/L	15/03/2023
Sodium	68	mg/L	15/03/2023
Standing Water Level	8.78	metres	15/03/2023
Vanadium	0.0002	mg/L	15/03/2023
Zinc	0.021	mg/L	15/03/2023

Groundwater Monitoring
Groundwater Well – MW02

EPA Identification no. 33 – Groundwater Monitoring Well 02

Name	Reading	Units	Date
Aluminium	0.626	mg/L	16/03/2023
Ammonia	3.99	mg/L	16/03/2023
Arsenic (III)	0.0031	mg/L	16/03/2023
Arsenic (V)	<0.0005	mg/L	16/03/2023
Cadmium	<0.0002	mg/L	16/03/2023
Calcium	290	mg/L	16/03/2023
Chromium (trivalent)	<0.01	mg/L	16/03/2023
Chromium (VI) compounds	<0.01	mg/L	16/03/2023
Copper	0.002	mg/L	16/03/2023
Electrical Conductivity	15600	uS/cm	16/03/2023
Iron	9.33	mg/L	16/03/2023
Lead	0.0016	mg/L	16/03/2023
Magnesium	271	mg/L	16/03/2023
Manganese	1.02	mg/L	16/03/2023
Nickel	0.0011	mg/L	16/03/2023
pH	6.42	pH units	16/03/2023
Potassium	126	mg/L	16/03/2023
Selenium	<0.002	mg/L	16/03/2023
Sodium	3200	mg/L	16/03/2023
Standing Water Level	4.05	metres	16/03/2023
Vanadium	0.0032	mg/L	16/03/2023
Zinc	0.032	mg/L	16/03/2023

Groundwater Monitoring
Groundwater Well – MW06

EPA Identification no. 34 – Groundwater Monitoring Well 06

Name	Reading	Units	Date
Aluminium	0.079	mg/L	15/03/2023
Ammonia	2.86	mg/L	15/03/2023
Arsenic (III)	0.0045	mg/L	15/03/2023
Arsenic (V)	0.0007	mg/L	15/03/2023
Cadmium	<0.0002	mg/L	15/03/2023
Calcium	448	mg/L	15/03/2023
Chromium (trivalent)	<0.01	mg/L	15/03/2023
Chromium (VI) compounds	<0.01	mg/L	15/03/2023
Copper	<0.001	mg/L	15/03/2023
Electrical Conductivity	20200	uS/cm	15/03/2023
Iron	11.2	mg/L	15/03/2023
Lead	0.0007	mg/L	15/03/2023
Magnesium	271	mg/L	15/03/2023
Manganese	0.379	mg/L	15/03/2023
Nickel	0.0008	mg/L	15/03/2023
pH	6.56	pH units	15/03/2023
Potassium	122	mg/L	15/03/2023
Selenium	<0.002	mg/L	15/03/2023
Sodium	3580	mg/L	15/03/2023
Standing Water Level	1.75	metres	15/03/2023
Vanadium	0.0012	mg/L	15/03/2023
Zinc	0.033	mg/L	15/03/2023

Groundwater Monitoring
Groundwater Well – EGM/D26

EPA Identification no. 35 – Groundwater Monitoring Well D26
Groundwater well was dry during sampling in March 2023

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