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

Environmental Monitoring Data March 2024



Unit 1A Boiler Continuous Emission Monitoring Summary

EPA Identification no.7 - Air emissions monitoring, Boiler 1 stack discharge to air
Unit 1A Offline 6-16 March 2024
NOx Unit *Data Invalidated 21, 23, 24 and 25 March 2024*

	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 March	536	574	446	969	1158	838
2 March	491	541	452	929	1180	636
3 March	507	596	420	973	1185	823
4 March	527	573	449	985	1098	812
5 March	533	577	478	1274	1503	1097
6 March	-	-	-	-	-	-
7 March	-	-	-	-	-	-
8 March	-	-	-	-	-	-
9 March	-	-	-	-	-	-
10 March	-	-	-	-	-	-
11 March	-	-	-	-	-	-
12 March	-	-	-	-	-	-
13 March	-	-	-	-	-	-
14 March	-	-	-	-	-	-
15 March	-	-	-	-	-	-
16 March	-	-	-	-	-	-
17 March	393	449	319	417	607	138
18 March	395	443	350	776	860	636
19 March	364	404	323	684	785	615
20 March	494	589	326	775	902	604
21 March	-	-	-	636	751	532
22 March	276	380	210	689	847	477
23 March	-	-	-	778	969	568
24 March	-	-	-	843	905	753
25 March	-	-	-	849	912	763
26 March	377	425	276	786	965	627
27 March	374	409	279	808	915	683
28 March	356	410	246	828	988	690
29 March	355	412	286	1011	1177	891
30 March	358	402	271	1095	1392	819
31 March	361	391	276	1158	1325	859

Unit 1B Boiler Continuous Emission Monitoring Summary

EPA Identification no.7 - Air emissions monitoring, Boiler 1 stack discharge to air
Unit 1B Data Offline 6-16 March 2024
NOx Unit Data Invalidated 17 and 18 March 2024

	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 March	464	517	411	1003	1187	922
2 March	453	485	401	1119	1227	957
3 March	452	495	380	1047	1236	906
4 March	462	510	402	1108	1244	1013
5 March	468	615	413	1400	1629	1199
6 March	-	-	-	-	-	-
7 March	-	-	-	-	-	-
8 March	-	-	-	-	-	-
9 March	-	-	-	-	-	-
10 March	-	-	-	-	-	-
11 March	-	-	-	-	-	-
12 March	-	-	-	-	-	-
13 March	-	-	-	-	-	-
14 March	-	-	-	-	-	-
15 March	-	-	-	-	-	-
16 March	-	-	-	-	-	-
17 March	-	-	-	747	821	614
18 March	-	-	-	789	835	706
19 March	345	400	304	706	759	615
20 March	356	393	303	835	967	721
21 March	318	351	283	783	850	710
22 March	316	346	274	788	897	697
23 March	328	375	292	888	1074	687
24 March	321	349	273	881	960	816
25 March	326	362	247	851	995	752
26 March	329	380	276	794	973	641
27 March	339	376	264	820	925	682
28 March	329	366	247	853	988	737
29 March	317	348	284	1071	1334	884
30 March	318	372	260	1140	1545	796
31 March	315	315	315	1192	1359	853

Unit 2A Boiler Continuous Emission Monitoring Summary

EPA Identification no. 9 - Air emissions monitoring, Boiler 2 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 March	451	506	375	647	817	509
2 March	434	492	394	813	872	640
3 March	426	481	383	750	849	619
4 March	424	466	399	763	900	639
5 March	406	447	366	978	1238	741
6 March	420	556	359	676	808	573
7 March	408	465	378	798	1028	603
8 March	305	407	236	489	675	349
9 March	277	322	240	407	469	344
10 March	264	312	221	442	580	352
11 March	252	307	216	382	551	293
12 March	243	311	207	441	719	285
13 March	250	314	226	392	564	299
14 March	248	297	225	395	508	335
15 March	287	408	234	439	574	345
16 March	263	301	228	424	547	350
17 March	327	354	301	566	664	426
18 March	323	363	276	539	645	432
19 March	296	328	262	467	613	387
20 March	295	326	263	603	808	451
21 March	296	324	271	566	699	427
22 March	288	323	266	535	606	472
23 March	263	337	198	612	832	424
24 March	262	288	244	594	753	531
25 March	274	305	245	600	800	472
26 March	269	293	250	534	740	380
27 March	258	282	236	631	759	468
28 March	276	345	247	563	653	453
29 March	277	308	230	656	806	541
30 March	287	321	260	705	972	565
31 March	263	309	227	732	873	601

Unit 2B Boiler Continuous Emission Monitoring Summary

EPA Identification no. 10 - Air emissions monitoring, Boiler 2 stack discharge to air
Unit 2B Data Invalidated 5 and 7 March 2024
NOx Unit Data Invalidated 6 March 2024

	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 March	663	756	453	1002	1193	875
2 March	576	697	478	1092	1191	1022
3 March	607	738	481	1055	1274	875
4 March	577	610	511	1037	1237	911
5 March	-	-	-	-	-	-
6 March	-	-	-	982	1168	889
7 March	-	-	-	-	-	-
8 March	462	620	285	758	1011	571
9 March	384	424	327	588	644	543
10 March	374	427	245	650	686	600
11 March	399	460	242	609	681	541
12 March	399	437	311	717	857	540
13 March	421	463	354	649	790	554
14 March	405	462	297	654	716	585
15 March	420	477	371	676	767	603
16 March	386	443	278	650	726	574
17 March	400	431	338	770	875	625
18 March	439	474	385	758	900	685
19 March	411	472	336	673	738	615
20 March	388	430	339	808	972	667
21 March	378	413	310	757	829	640
22 March	404	445	328	755	911	627
23 March	361	447	235	833	993	648
24 March	389	426	289	861	906	827
25 March	404	450	298	863	956	761
26 March	398	456	306	767	934	584
27 March	342	442	286	808	916	729
28 March	401	450	345	803	955	663
29 March	366	431	274	869	961	798
30 March	376	415	315	952	1133	834
31 March	373	445	275	1014	1075	947

Unit 3A Boiler Continuous Emission Monitoring Summary

EPA Identification no. 11 - Air emissions monitoring, Boiler 3 stack discharge to air
Unit 3A Data Invalidated 3 and 4 March 2024
NOx Unit Data Invalidated 2, 6, 7, 9, 10, 12, 13, 15-18 and 21-28 March 2024

	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 March	383	413	325	666	726	602
2 March	-	-	-	738	803	661
3 March	-	-	-	-	-	-
4 March	-	-	-	-	-	-
5 March	284	316	250	890	975	752
6 March	-	-	-	679	878	639
7 March	-	-	-	741	819	646
8 March	372	430	250	694	774	654
9 March	-	-	-	642	684	599
10 March	-	-	-	706	760	654
11 March	394	472	255	675	739	604
12 March	-	-	-	775	889	580
13 March	-	-	-	715	843	629
14 March	406	466	264	692	775	625
15 March	-	-	-	752	871	664
16 March	-	-	-	648	742	596
17 March	-	-	-	743	829	649
18 March	-	-	-	782	844	743
19 March	375	432	297	682	744	638
20 March	334	401	244	798	880	718
21 March	-	-	-	788	877	715
22 March	-	-	-	747	828	676
23 March	-	-	-	772	926	650
24 March	-	-	-	865	904	811
25 March	-	-	-	845	950	763
26 March	-	-	-	716	875	635
27 March	-	-	-	781	841	698
28 March	-	-	-	763	916	662
29 March	344	430	239	909	1056	805
30 March	373	428	252	1002	1216	800
31 March	369	501	266	1062	1157	904

Unit 3B Boiler Continuous Emission Monitoring Summary

EPA Identification no. 12 - Air emissions monitoring, Boiler 3 stack discharge to air
Unit 3B Data Invalidated 30 March 2024
NOx Unit Data Invalidated 27 and 31 March 2024
SOx Unit Data Invalidated 4, 5, 10 and 18 March 2024

	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 March	317	345	269	515	574	463
2 March	246	308	204	611	661	526
3 March	225	281	126	391	522	172
4 March	238	315	184	-	-	-
5 March	236	254	216	-	-	-
6 March	273	356	206	546	670	501
7 March	347	729	230	592	648	508
8 March	328	368	233	558	616	522
9 March	324	373	237	524	547	478
10 March	326	403	241	-	-	-
11 March	336	381	238	554	619	477
12 March	331	373	206	621	720	459
13 March	340	389	232	578	674	499
14 March	330	369	215	555	615	504
15 March	301	363	219	629	735	539
16 March	321	366	218	520	554	484
17 March	328	377	230	611	701	514
18 March	310	371	188	-	-	-
19 March	359	390	312	606	675	552
20 March	335	399	249	732	830	656
21 March	330	379	252	722	858	640
22 March	320	373	216	671	733	604
23 March	299	384	220	690	853	567
24 March	298	365	234	784	866	716
25 March	297	384	201	756	911	633
26 March	334	380	258	644	772	564
27 March	-	-	-	694	747	614
28 March	337	386	253	681	799	581
29 March	318	386	234	830	1021	729
30 March	-	-	-	-	-	-
31 March	-	-	-	951	1108	813

Unit 4A Boiler Continuous Emission Monitoring Summary

EPA Identification no. 13 - Air emissions monitoring, Boiler 4 stack discharge to air
Unit 4A Offline 20 to 31 March 2024

	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 March	365	392	330	646	725	567
2 March	309	364	296	651	769	500
3 March	396	508	302	571	724	388
4 March	370	422	328	564	636	497
5 March	360	410	334	784	973	496
6 March	390	454	346	629	677	577
7 March	434	460	365	691	780	535
8 March	432	466	350	649	722	581
9 March	441	479	355	602	663	549
10 March	521	570	440	638	707	532
11 March	491	549	431	646	720	594
12 March	430	502	327	717	873	504
13 March	437	481	380	706	841	598
14 March	416	464	345	689	769	571
15 March	411	446	350	670	812	581
16 March	428	455	346	613	651	529
17 March	423	472	329	650	699	562
18 March	424	484	350	732	841	630
19 March	457	505	414	677	744	610
20 March	-	-	-	-	-	-
21 March	-	-	-	-	-	-
22 March	-	-	-	-	-	-
23 March	-	-	-	-	-	-
24 March	-	-	-	-	-	-
25 March	-	-	-	-	-	-
26 March	-	-	-	-	-	-
27 March	-	-	-	-	-	-
28 March	-	-	-	-	-	-
29 March	-	-	-	-	-	-
30 March	-	-	-	-	-	-
31 March	-	-	-	-	-	-

Unit 4B Boiler Continuous Emission Monitoring Summary

EPA Identification no. 14 – Air emissions monitoring, Boiler 4 stack discharge to air
Unit 4B Offline 20 - 31 March 2024
SOx Unit Data Invalidated 16 March 2024

	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 March	207	219	198	471	571	424
2 March	209	225	199	515	588	463
3 March	269	363	201	468	585	417
4 March	281	296	254	492	547	460
5 March	277	316	253	643	763	506
6 March	283	313	263	483	568	418
7 March	292	321	262	516	579	431
8 March	284	304	251	468	562	420
9 March	298	375	233	452	500	389
10 March	383	436	345	469	508	414
11 March	345	404	285	459	524	406
12 March	280	324	225	494	575	420
13 March	274	295	260	508	621	436
14 March	269	314	244	502	611	438
15 March	294	369	272	505	540	465
16 March	289	333	273	-	-	-
17 March	285	319	249	522	589	433
18 March	286	321	272	564	589	518
19 March	309	354	270	490	541	430
20 March	-	-	-	-	-	-
21 March	-	-	-	-	-	-
22 March	-	-	-	-	-	-
23 March	-	-	-	-	-	-
24 March	-	-	-	-	-	-
25 March	-	-	-	-	-	-
26 March	-	-	-	-	-	-
27 March	-	-	-	-	-	-
28 March	-	-	-	-	-	-
29 March	-	-	-	-	-	-
30 March	-	-	-	-	-	-
31 March	-	-	-	-	-	-

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	<0.01	mg/m^3	20	18/04/2023
Fluorine	14	mg/m^3	30	18/04/2023
Hydrogen chloride	15	mg/m^3	50	18/04/2023
Solid Particles	1.6	mg/m^3	50	18/04/2023
Sulfuric acid mist and sulfur trioxide (as SO3)	1.5	mg/m^3	100	18/04/2023
Volatile organic compounds as n-propane equivalent	0.18	mg/m^3	10	18/04/2023
Cadmium	<0.0002	mg/m^3	0.2	28/02/2023
Mercury	<0.0004	mg/m^3	0.05	28/02/2023
Solid Particles	3.7	mg/m^3	50	1/11/2023
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	350	m3/sec		31/10/2023
Moisture	5.5	%		31/10/2023
Oxygen	8.2	%		31/10/2023
Solid Particles	3.4	mg/m3		31/10/2023
Temperature	119	degC		31/10/2023
Carbon dioxide	11.7	%		31/10/2023
Chlorine	<0.01	mg/m3		31/10/2023
Fluorine	8.2	mg/m3		31/10/2023
Hydrogen chloride	9.2	mg/m3		31/10/2023
Sulfuric acid mist and sulfur trioxide (as SO3)	3.4	mg/m3		31/10/2023
Volatile organic compounds as n-propane equivalent	<0.09	mg/m3		31/10/2023
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	330	m3/sec		1/11/2023
Moisture	5.1	%		1/11/2023
Oxygen	7	%		1/11/2023
Solid Particles	3.9	mg/m3		1/11/2023
Temperature	114	degC		1/11/2023
Carbon dioxide	13.2	%		1/11/2023
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	3/05/2023
Fluorine	12	mg/m^3	30	3/05/2023
Hydrogen chloride	15	mg/m^3	50	3/05/2023
Solid Particles	13	mg/m^3	50	5/12/2023
Sulfuric acid mist and sulfur trioxide (as SO3)	0.92	mg/m^3	100	3/05/2023
Volatile organic compounds as n-propane equivalent	<0.07	mg/m^3	10	3/05/2023
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	280	m3/sec		5/12/2023
Moisture	5.2	%		5/12/2023
Oxygen	7.6	%		5/12/2023
Solid Particles	13	mg/m3		5/12/2023
Temperature	119	degC		5/12/2023
Carbon dioxide	12	%		5/12/2023
Chlorine	<0.01	mg/m3		5/12/2023
Fluorine	9.7	mg/m3		5/12/2023
Hydrogen chloride	9.7	mg/m3		5/12/2023
Sulfuric acid mist and sulfur trioxide (as SO3)	1.3	mg/m3		5/12/2023
Volatile organic compounds as n-propane equivalent	<0.06	mg/m3		5/12/2023
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	280	m3/sec		5/12/2023
Moisture	4.7	%		5/12/2023
Oxygen	7.3	%		5/12/2023
Solid Particles	13	mg/m3		5/12/2023
Temperature	122	degC		5/12/2023
Carbon dioxide	12.2	%		5/12/2023
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	<0.01	mg/m3	20	19/04/2023
Fluorine	9.2	mg/m3	30	19/04/2023
Hydrogen chloride	19	mg/m3	50	19/04/2023
Solid Particles	8.4	mg/m3	50	6/12/2023
Sulfuric acid mist and sulfur trioxide (as SO3)	1.4	mg/m3	100	19/04/2023
Volatile organic compounds as n-propane equivalent	0.76	mg/m3	10	19/04/2023
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	270	m3/sec		6/12/2023
Moisture	5.8	%		6/12/2023
Oxygen	6.6	%		6/12/2023
Solid Particles	9.7	mg/m3		6/12/2023
Temperature	124	degC		6/12/2023
Carbon dioxide	12.5	%		6/12/2023
Chlorine	0.03	mg/m3		6/12/2023
Fluorine	19	mg/m3		6/12/2023
Hydrogen chloride	20	mg/m3		6/12/2023
Sulfuric acid mist and sulfur trioxide (as SO3)	1.5	mg/m3		6/12/2023
Volatile organic compounds as n-propane equivalent	<0.05	mg/m3		6/12/2023
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	300	m3/sec		6/12/2023
Moisture	6.6	%		6/12/2023
Oxygen	6.9	%		6/12/2023
Solid Particles	7.3	mg/m3		6/12/2023
Temperature	119	degC		6/12/2023
Carbon dioxide	13.2	%		6/12/2023
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	0.03	mg/m3	20	5/05/2023
Fluorine	7.4	mg/m3	30	5/05/2023
Hydrogen chloride	8.2	mg/m3	50	5/05/2023
Solid Particles	18	mg/m3	50	7/12/2023
Sulfuric acid mist and sulfur trioxide (as SO3)	2.0	mg/m3	100	5/05/2023
Volatile organic compounds as n-propane equivalent	<0.07	mg/m3	10	5/05/2023
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	370	m^3/sec		7/12/2023
Moisture	5.5	%		7/12/2023
Oxygen	7.7	%		7/12/2023
Solid Particles	7.3	mg/m^3		7/12/2023
Temperature	122	degC		7/12/2023
Carbon dioxide	12.5	%		7/12/2023
Chlorine	0.025	mg/m^3		7/12/2023
Fluorine	16	mg/m^3		7/12/2023
Hydrogen chloride	15	mg/m^3		7/12/2023
Sulfuric acid mist and sulfur trioxide (as SO3)	1.0	mg/m^3		7/12/2023
Volatile organic compounds as n-propane equivalent	0.16	mg/m^3		7/12/2023
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	350	m^3/sec		7/12/2023
Moisture	6.6	%		7/12/2023
Oxygen	7.3	%		7/12/2023
Solid Particles	30	mg/m^3		7/12/2023
Temperature	125	degC		7/12/2023
Carbon dioxide	12	%		7/12/2023
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	0.9	0.2	1.1
E4	18	0.7	0.3	1.0
E6	19	0.2	0.2	0.4
U6	20	1.6	0.2	1.8

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		Secchi
^{0}C	m	^{0}C	pH unit	ppt	%	mg/L	m
23.15	0.5	26.36	8.05	35.6	86.6	5.42	2.25

Laboratory Analysis

Name	Reading	Units	Date
Aluminium	0.031	mg/L	5/03/24
Ammonia	<0.010	mg/L	5/03/24
Arsenic III	<0.004	mg/L	5/03/24
Arsenic V	<0.004	mg/L	5/03/24
Cadmium	0.0002	mg/L	5/03/24
Chromium (Trivalent)	<0.001	mg/L	5/03/24
Chromium (VI) Compounds	<0.001	mg/L	5/03/24
Copper	0.001	mg/L	5/03/24
Iron	0.046	mg/L	5/03/24
Lead	<0.0002	mg/L	5/03/24
Manganese	0.0071	mg/L	5/03/24
Nickel	0.0006	mg/L	5/03/24
pH	8.15	pH units	5/03/24
Selenium	<0.002	mg/L	5/03/24
Total Suspended Solids	25	mg/L	5/03/24
Vanadium	0.0035	mg/L	5/03/24
Zinc	<0.005	mg/L	5/03/24

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
23.07	0.5	26.83	8.04	35.6	94.5	6.03	2.25

Laboratory Analysis

Name	Reading	Units	Date
Aluminium	0.032	mg/L	5/03/24
Ammonia	<0.005	mg/L	5/03/24
Arsenic III	<0.004	mg/L	5/03/24
Arsenic V	<0.004	mg/L	5/03/24
Cadmium	<0.0002	mg/L	5/03/24
Chromium (Trivalent)	<0.001	mg/L	5/03/24
Chromium (VI) Compounds	<0.001	mg/L	5/03/24
Copper	0.001	mg/L	5/03/24
Iron	0.036	mg/L	5/03/24
Lead	<0.0002	mg/L	5/03/24
Manganese	0.0055	mg/L	5/03/24
Nickel	0.0005	mg/L	5/03/24
pH	8.13	pH units	5/03/24
Selenium	<0.002	mg/L	5/03/24
Total Suspended Solids	24	mg/L	5/03/24
Vanadium	0.0038	mg/L	5/03/24
Zinc	<0.005	mg/L	5/03/24

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
21.47	0.5	24.83	8.03	34.2	102.8	6.83	3.5

Laboratory Analysis

Name	Reading	Units	Date
Aluminium	0.031	mg/L	5/03/24
Ammonia	<0.010	mg/L	5/03/24
Arsenic III	<0.004	mg/L	5/03/24
Arsenic V	<0.004	mg/L	5/03/24
Cadmium	<0.0002	mg/L	5/03/24
Chromium (Trivalent)	<0.001	mg/L	5/03/24
Chromium (VI) Compounds	<0.001	mg/L	5/03/24
Copper	<0.001	mg/L	5/03/24
Iron	0.03	mg/L	5/03/24
Lead	0.0003	mg/L	5/03/24
Manganese	0.005	mg/L	5/03/24
Nickel	<0.0005	mg/L	5/03/24
pH	8.18	pH units	5/03/24
Selenium	<0.002	mg/L	5/03/24
Total Suspended Solids	20	mg/L	5/03/24
Vanadium	0.0022	mg/L	5/03/24
Zinc	<0.005	mg/L	5/03/24

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
22.68	0.5	28.87	8.01	35.4	104.9	6.47	3.75

Laboratory Analysis

Name	Reading	Units	Date
Aluminium	0.033	mg/L	5/03/24
Ammonia	<0.005	mg/L	5/03/24
Arsenic III	<0.004	mg/L	5/03/24
Arsenic V	<0.004	mg/L	5/03/24
Cadmium	<0.0002	mg/L	5/03/24
Chromium (Trivalent)	<0.001	mg/L	5/03/24
Chromium (VI) Compounds	<0.001	mg/L	5/03/24
Copper	0.001	mg/L	5/03/24
Iron	0.054	mg/L	5/03/24
Lead	<0.0002	mg/L	5/03/24
Manganese	0.0076	mg/L	5/03/24
Nickel	<0.0005	mg/L	5/03/24
pH	8.12	pH units	5/03/24
Selenium	<0.002	mg/L	5/03/24
Total Suspended Solids	24	mg/L	5/03/24
Vanadium	0.0034	mg/L	5/03/24
Zinc	<0.005	mg/L	5/03/24

Eraring Ash Dam Quality Monitoring

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

Name	Reading	Units	Licence Limit	Date
Aluminium	0.126	mg/L	-	5/03/24
Ammonia	0.26	mg/L	-	5/03/24
Arsenic III	<0.0005	mg/L	-	5/03/24
Arsenic V	0.0052	mg/L	-	5/03/24
Cadmium	0.00007	mg/L	-	5/03/24
Chromium (Trivalent)	<0.001	mg/L	-	5/03/24
Chromium (VI) Compounds	<0.01	mg/L	-	5/03/24
Copper	0.0021	mg/L	-	5/03/24
Iron	0.038	mg/L	-	5/03/24
Lead	<0.0001	mg/L	-	5/03/24
Manganese	0.0301	mg/L	-	5/03/24
Nickel	0.0015	mg/L	-	5/03/24
Nitrite and Nitrate as N	4.36	mg/L	-	5/03/24
Nitrogen	5.4	mg/L	-	5/03/24
pH	8.92	pH units	-	5/03/24
Phosphorus as P	0.51	mg/L	-	5/03/24
Reactive Phosphorus as P	0.48	mg/L	-	5/03/24
Selenium	0.0237	mg/L	-	5/03/24
Total Kjeldahl Nitrogen	1	mg/L	-	5/03/24
Total Suspended Solids	14	mg/L	-	5/03/24
Vanadium	0.0246	mg/L	-	5/03/24
Zinc	0.002	mg/L	-	5/03/24

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	0.044	mg/L	-	5/03/24
Ammonia	<0.005	mg/L	-	5/03/24
Arsenic III	<0.004	mg/L	-	5/03/24
Arsenic V	<0.004	mg/L	-	5/03/24
Cadmium	<0.0002	mg/L	-	5/03/24
Chromium (Trivalent)	<0.001	mg/L	-	5/03/24
Chromium (VI) Compounds	<0.01	mg/L	-	5/03/24
Copper	0.0013	mg/L	-	5/03/24
Iron	0.078	mg/L	-	5/03/24
Lead	<0.0002	mg/L	-	5/03/24
Manganese	0.0067	mg/L	-	5/03/24
Nickel	0.0007	mg/L	-	5/03/24
pH	8.09	pH units	-	5/03/24
Selenium	0.001	mg/L	-	5/03/24
Total Suspended Solids	34	mg/L	-	5/03/24
Vanadium	0.0031	mg/L	-	5/03/24
Zinc	<0.005	mg/L	-	5/03/24
Dissolved Oxygen	5.93	mg/L	-	5/03/24
Field Temperature	25.7	degC	-	5/03/24
Salinity	38.14	ppt	-	5/03/24
Secchi Disk	1.75	m	-	5/03/24
Temperature – Average	26.53	deg C	-	March 24
Temperature – Minimum	23.93	deg C	-	March 24
Temperature - Maximum	28.71	deg C	-	March 24

Eraring Cooling Water Outlet Canal

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

Name	Reading	Units	Licence Limit	Date
Copper	0.0018	mg/L	0.005	5/03/24
Iron	0.174	mg/L	0.3	5/03/24
Selenium	0.001	mg/L	0.002	5/03/24

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	32.92	deg C	35.5	37.5	38.5	March 24
Temperature – Minimum	27.35	deg C				March 24
Temperature - Maximum	36.03	deg C				March 24

Eraring Cooling Water Outlet Canal

EPA Identification no. 25 – Discharge from Ash Dam

Name	Reading	Units	Licence Limit	Date
Maximum Daily Discharge from Ash Dam	3.97	ML	150	March 24
Monthly Discharge from Ash Dam	16.35	ML	-	March 24

Emergency Discharge – Toe Drain Pond

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

Name	Reading	Units	Licence Limit	Date
Aluminium	0.034	mg/L	-	5/03/24
Ammonia	3.25	mg/L	-	5/03/24
Arsenic III	0.0031	mg/L	-	5/03/24
Arsenic V	0.0018	mg/L	-	5/03/24
Cadmium	<0.00005	mg/L	-	5/03/24
Chromium (Trivalent)	<0.001	mg/L	-	5/03/24
Chromium (VI) Compounds	<0.01	mg/L	-	5/03/24
Copper	<0.0005	mg/L	-	5/03/24
Iron	9.40	mg/L	-	5/03/24
Lead	<0.0001	mg/L	-	5/03/24
Manganese	0.964	mg/L	-	5/03/24
Nickel	0.0023	mg/L	-	5/03/24
Nitrite and Nitrate as N	0.174	mg/L	-	5/03/24
Nitrogen	3.31	mg/L	-	5/03/24
pH	6.97	pH units	6-9.5	5/03/24
Phosphorus as P	0.398	mg/L	-	5/03/24
Reactive Phosphorus as P	0.016	mg/L	-	5/03/24
Selenium	0.0004	mg/L	-	5/03/24
Total Kjeldahl Nitrogen	3.14	mg/L	-	5/03/24
Total Suspended Solids	31	mg/L	50	5/03/24
Vanadium	0.0007	mg/L	-	5/03/24
Zinc	0.002	mg/L	-	5/03/24

MR217

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

MR217 did not discharge throughout March 2024 and there was insufficient water to sample during routine sampling in March 2024

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

Groundwater Monitoring
Groundwater Well – MW01

EPA Identification no. 32 – Groundwater Monitoring Well 01

Name	Reading	Units	Date
Aluminium	0.107	mg/L	12/3/24
Ammonia	0.04	mg/L	12/3/24
Arsenic (III)	0.0014	mg/L	12/3/24
Arsenic (V)	<0.0005	mg/L	12/3/24
Cadmium	<0.00005	mg/L	12/3/24
Calcium	1	mg/L	12/3/24
Chromium (trivalent)	<0.001	mg/L	12/3/24
Chromium (VI) compounds	<0.01	mg/L	12/3/24
Copper	0.0007	mg/L	12/3/24
Electrical Conductivity	358	uS/cm	12/3/24
Iron	0.084	mg/L	12/3/24
Lead	0.0003	mg/L	12/3/24
Magnesium	3	mg/L	12/3/24
Manganese	0.0794	mg/L	12/3/24
Nickel	0.0034	mg/L	12/3/24
pH	4.85	pH units	12/3/24
Potassium	4	mg/L	12/3/24
Selenium	<0.0002	mg/L	12/3/24
Sodium	56	mg/L	12/3/24
Standing Water Level	8.37	metres	12/3/24
Vanadium	0.0002	mg/L	12/3/24
Zinc	0.020	mg/L	12/3/24

Groundwater Monitoring
Groundwater Well – MW02

EPA Identification no. 33 – Groundwater Monitoring Well 02

Name	Reading	Units	Date
Aluminium	0.291	mg/L	12/3/24
Ammonia	0.12	mg/L	12/3/24
Arsenic (III)	0.0021	mg/L	12/3/24
Arsenic (V)	0.0012	mg/L	12/3/24
Cadmium	0.00009	mg/L	12/3/24
Calcium	132	mg/L	12/3/24
Chromium (trivalent)	<0.001	mg/L	12/3/24
Chromium (VI) compounds	<0.01	mg/L	12/3/24
Copper	0.0025	mg/L	12/3/24
Electrical Conductivity	5590	uS/cm	12/3/24
Iron	1.900	mg/L	12/3/24
Lead	0.0021	mg/L	12/3/24
Magnesium	101	mg/L	12/3/24
Manganese	1.640	mg/L	12/3/24
Nickel	0.017	mg/L	12/3/24
pH	6.65	pH units	12/3/24
Potassium	50	mg/L	12/3/24
Selenium	0.0002	mg/L	12/3/24
Sodium	1140	mg/L	12/3/24
Standing Water Level	4.16	metres	12/3/24
Vanadium	0.0017	mg/L	12/3/24
Zinc	0.607	mg/L	12/3/24

Groundwater Monitoring
Groundwater Well – MW06

EPA Identification no. 34 – Groundwater Monitoring Well 06

Name	Reading	Units	Date
Aluminum	0.021	mg/L	12/3/24
Ammonia	3.07	mg/L	12/3/24
Arsenic (III)	0.0042	mg/L	12/3/24
Arsenic (V)	<0.0004	mg/L	12/3/24
Cadmium	<0.0002	mg/L	12/3/24
Calcium	508	mg/L	12/3/24
Chromium (trivalent)	<0.001	mg/L	12/3/24
Chromium (VI) compounds	<0.01	mg/L	12/3/24
Copper	<0.001	mg/L	12/3/24
Electrical Conductivity	21300	uS/cm	12/3/24
Iron	16	mg/L	12/3/24
Lead	0.0004	mg/L	12/3/24
Magnesium	258	mg/L	12/3/24
Manganese	0.480	mg/L	12/3/24
Nickel	0.0009	mg/L	12/3/24
pH	6.47	pH units	12/3/24
Potassium	125	mg/L	12/3/24
Selenium	<0.002	mg/L	12/3/24
Sodium	3450	mg/L	12/3/24
Standing Water Level	1.83	metres	12/3/24
Vanadium	0.0009	mg/L	12/3/24
Zinc	0.016	mg/L	12/3/24

Groundwater Monitoring
Groundwater Well – EGM/D26

EPA Identification no. 35 – Groundwater Monitoring Well D26
Groundwater well was dry during sampling in March 2024

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	-