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

Environmental Monitoring Data May 2024



Unit 1A Boiler Continuous Emission Monitoring Summary

EPA Identification no.7 - Air emissions monitoring, Boiler 1 stack discharge to air
Unit 1A Data Invalidated 16 and 20 May 2024
NOx Unit Data Invalidated 23 and 26 May 2024
Unit 1A offline 27-31 May 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 May	374	438	304	554	669	456
2 May	394	437	310	548	670	430
3 May	418	439	401	592	756	435
4 May	383	439	319	443	577	336
5 May	397	423	327	418	593	309
6 May	417	467	342	494	638	312
7 May	364	395	309	422	492	343
8 May	413	484	343	448	599	369
9 May	424	474	376	511	649	369
10 May	417	473	330	473	596	368
11 May	415	490	326	444	584	352
12 May	388	419	333	490	606	392
13 May	401	452	313	528	641	443
14 May	393	440	315	538	629	414
15 May	399	448	331	589	711	409
16 May	-	-	-	-	-	-
17 May	409	507	300	518	570	403
18 May	407	443	340	435	659	306
19 May	389	427	330	459	645	340
20 May	-	-	-	-	-	-
21 May	422	484	338	503	641	447
22 May	409	445	320	548	647	454
23 May	-	-	-	578	736	443
24 May	388	432	277	574	726	434
25 May	407	468	312	480	543	377
26 May	-	-	-	563	764	403
27 May	-	-	-	-	-	-
28 May	-	-	-	-	-	-
29 May	-	-	-	-	-	-
30 May	-	-	-	-	-	-
31 May	-	-	-	-	-	-

Unit 1B Boiler Continuous Emission Monitoring Summary

EPA Identification no.7 - Air emissions monitoring, Boiler 1 stack discharge to air
Unit 1B Data Invalidated 16, 20 and 24 May 2024
NOx Unit Data 2, 3, 6, 10,13, 15, 19, 21, 24 and 26 May 2024Unit 1 b Offline 27-31 May 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 May	351	413	310	867	980	758
2 May	-	-	-	717	773	673
3 May	-	-	-	714	754	667
4 May	355	397	292	697	807	628
5 May	356	386	309	687	742	616
6 May	-	-	-	662	731	588
7 May	334	365	294	652	724	591
8 May	381	444	323	677	719	637
9 May	387	429	345	730	828	637
10 May	-	-	-	683	779	632
11 May	397	483	343	702	732	654
12 May	362	382	324	720	786	652
13 May	-	-	-	700	766	629
14 May	352	378	300	700	763	625
15 May	-	-	-	821	1036	609
16 May	-	-	-	-	-	-
17 May	358	395	289	746	911	620
18 May	364	400	332	721	924	633
19 May	-	-	-	732	879	649
20 May	-	-	-	-	-	-
21 May	-	-	-	737	782	712
22 May	345	383	290	793	856	743
23 May	330	364	290	-	-	-
24 May	-	-	-	-	-	-
25 May	342	366	280	615	656	563
26 May	-	-	-	-	-	-
27 May	-	-	-	-	-	-
28 May	-	-	-	-	-	-
29 May	-	-	-	-	-	-
30 May	-	-	-	-	-	-
31 May	-	-	-	-	-	-

Unit 2A Boiler Continuous Emission Monitoring Summary

EPA Identification no. 9 - Air emissions monitoring, Boiler 2 stack discharge to air
SO2 Unit Data Invalidated 27 May 2024
Unit 2A Offline 2-26 May 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 May	212	282	191	583	692	488
2 May	-	-	-	-	-	-
3 May	-	-	-	-	-	-
4 May	-	-	-	-	-	-
5 May	-	-	-	-	-	-
6 May	-	-	-	-	-	-
7 May	-	-	-	-	-	-
8 May	-	-	-	-	-	-
9 May	-	-	-	-	-	-
10 May	-	-	-	-	-	-
11 May	-	-	-	-	-	-
12 May	-	-	-	-	-	-
13 May	-	-	-	-	-	-
14 May	-	-	-	-	-	-
15 May	-	-	-	-	-	-
16 May	-	-	-	-	-	-
17 May	-	-	-	-	-	-
18 May	-	-	-	-	-	-
19 May	-	-	-	-	-	-
20 May	-	-	-	-	-	-
21 May	-	-	-	-	-	-
22 May	-	-	-	-	-	-
23 May	-	-	-	-	-	-
24 May	-	-	-	-	-	-
25 May	-	-	-	-	-	-
26 May	-	-	-	-	-	-
27 May	128	244	78	-	-	-
28 May	112	170	62	172	265	87
29 May	130	257	59	212	433	92
30 May	109	248	64	189	490	91
31 May	106	262	66	162	466	74

Unit 2B Boiler Continuous Emission Monitoring Summary

EPA Identification no. 10 - Air emissions monitoring, Boiler 2 stack discharge to air
Unit 2 B Offline 2-26 May 20-24

	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 May	250	324	231	755	851	684
2 May	-	-	-	-	-	-
3 May	-	-	-	-	-	-
4 May	-	-	-	-	-	-
5 May	-	-	-	-	-	-
6 May	-	-	-	-	-	-
7 May	-	-	-	-	-	-
8 May	-	-	-	-	-	-
9 May	-	-	-	-	-	-
10 May	-	-	-	-	-	-
11 May	-	-	-	-	-	-
12 May	-	-	-	-	-	-
13 May	-	-	-	-	-	-
14 May	-	-	-	-	-	-
15 May	-	-	-	-	-	-
16 May	-	-	-	-	-	-
17 May	-	-	-	-	-	-
18 May	-	-	-	-	-	-
19 May	-	-	-	-	-	-
20 May	-	-	-	-	-	-
21 May	-	-	-	-	-	-
22 May	-	-	-	-	-	-
23 May	-	-	-	-	-	-
24 May	-	-	-	-	-	-
25 May	-	-	-	-	-	-
26 May	-	-	-	-	-	-
27 May	403	497	296	724	755	699
28 May	413	472	367	696	874	609
29 May	401	441	319	718	828	634
30 May	382	426	307	715	759	688
31 May	420	479	358	664	748	586

Unit 3A Boiler Continuous Emission Monitoring Summary

EPA Identification no. 11 - Air emissions monitoring, Boiler 3 stack discharge to air
Unit 3A Offline 2-9 May 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 May	276	301	223	837	916	764
2 May	-	-	-	-	-	-
3 May	-	-	-	-	-	-
4 May	-	-	-	-	-	-
5 May	-	-	-	-	-	-
6 May	-	-	-	-	-	-
7 May	-	-	-	-	-	-
8 May	-	-	-	-	-	-
9 May	-	-	-	-	-	-
10 May	296	316	255	618	653	560
11 May	306	340	255	661	691	626
12 May	285	306	260	666	725	621
13 May	294	335	249	669	716	633
14 May	302	331	267	643	711	558
15 May	279	306	242	845	1076	557
16 May	307	394	266	775	938	668
17 May	303	349	248	758	972	617
18 May	303	339	260	723	969	614
19 May	315	396	272	723	884	658
20 May	298	343	261	806	937	679
21 May	289	323	256	741	798	692
22 May	272	339	244	821	871	750
23 May	269	332	233	820	850	786
24 May	261	298	233	824	890	709
25 May	276	365	254	669	730	586
26 May	318	447	256	696	753	649
27 May	284	315	243	781	833	727
28 May	334	382	271	724	818	628
29 May	284	318	262	727	865	641
30 May	301	335	264	759	812	687
31 May	317	334	290	690	805	601

Unit 3B Boiler Continuous Emission Monitoring Summary

EPA Identification no. 12 - Air emissions monitoring, Boiler 3 stack discharge to air
Unit 3B Data Invalidated 16, 30 and 31 May 2024
NOx Unit Data Invalidated 20 and 21, May 2024
SOx Unit Data Invalidated 15, 25 and 27 May 2024
Unit 3 B offline 2-9 May 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 May	237	268	204	705	822	603
2 May	-	-	-	-	-	-
3 May	-	-	-	-	-	-
4 May	-	-	-	-	-	-
5 May	-	-	-	-	-	-
6 May	-	-	-	-	-	-
7 May	-	-	-	-	-	-
8 May	-	-	-	-	-	-
9 May	-	-	-	-	-	-
10 May	263	289	236	529	570	482
11 May	261	290	230	565	631	526
12 May	256	293	233	577	677	532
13 May	260	309	217	574	628	533
14 May	265	320	237	553	655	473
15 May	246	276	223	-	-	-
16 May	-	-	-	-	-	-
17 May	266	311	230	634	797	486
18 May	257	311	231	588	746	499
19 May	264	354	220	609	736	549
20 May	-	-	-	658	831	530
21 May	-	-	-	617	670	549
22 May	237	322	212	695	772	623
23 May	237	308	220	705	770	661
24 May	240	286	217	715	806	590
25 May	250	331	224	-	-	-
26 May	287	408	239	613	651	543
27 May	254	296	214	-	-	-
28 May	299	348	247	628	740	549
29 May	255	287	239	612	755	541
30 May	-	-	-	-	-	-
31 May	-	-	-	-	-	-

Unit 4A Boiler Continuous Emission Monitoring Summary

EPA Identification no. 13 - 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 May	306	406	196	625	863	324
2 May	295	443	236	471	646	322
3 May	280	417	233	410	539	321
4 May	234	268	217	378	469	286
5 May	252	315	218	349	562	281
6 May	264	417	212	338	477	283
7 May	260	385	202	359	533	271
8 May	260	322	218	368	479	301
9 May	268	307	207	395	645	288
10 May	264	291	240	385	415	361
11 May	251	327	230	404	518	363
12 May	265	405	201	446	568	376
13 May	267	340	233	406	517	359
14 May	277	380	244	427	622	360
15 May	288	414	249	448	600	348
16 May	291	332	246	456	579	400
17 May	310	481	251	477	615	383
18 May	255	332	224	419	581	331
19 May	256	318	214	491	669	380
20 May	231	254	217	455	501	382
21 May	265	324	229	461	609	392
22 May	262	362	226	479	643	421
23 May	252	313	223	513	727	423
24 May	273	451	215	521	758	437
25 May	276	381	236	402	526	331
26 May	281	364	229	446	588	369
27 May	255	327	221	489	684	406
28 May	256	356	211	487	633	416
29 May	296	523	237	498	629	424
30 May	253	279	228	474	555	364
31 May	286	326	232	470	656	357

Unit 4B Boiler Continuous Emission Monitoring Summary

EPA Identification no. 14 – Air emissions monitoring, Boiler 4 stack discharge to air

	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 May	252	456	111	379	622	227
2 May	435	509	297	592	683	528
3 May	453	499	353	569	611	519
4 May	404	469	336	576	629	514
5 May	376	413	342	545	626	463
6 May	396	475	360	518	584	446
7 May	362	397	292	509	592	445
8 May	377	475	278	554	607	518
9 May	390	473	291	592	727	515
10 May	390	427	368	577	619	537
11 May	382	417	343	585	679	545
12 May	390	486	316	617	685	561
13 May	448	471	400	596	644	531
14 May	442	475	392	607	705	536
15 May	476	502	445	640	715	524
16 May	474	530	403	669	702	620
17 May	476	572	396	691	906	601
18 May	408	489	349	675	912	586
19 May	334	389	279	691	803	600
20 May	389	451	341	703	758	642
21 May	395	431	318	677	762	602
22 May	391	432	348	706	812	620
23 May	351	371	316	743	825	694
24 May	386	473	340	747	866	673
25 May	385	443	331	607	668	546
26 May	379	424	319	629	681	582
27 May	363	403	325	699	792	619
28 May	364	392	298	703	820	648
29 May	405	505	370	716	807	618
30 May	363	409	314	698	771	629
31 May	386	425	314	639	786	517

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	<0.0003	mg/m^3	0.2	27/02/2024
Mercury	<0.0003	mg/m^3	0.05	27/02/2024
Solid Particles	9.6	mg/m^3	50	27/02/2024
Type 1 and 2 substances in Aggregate	<0.02	mg/m^3	0.75	27/02/2024

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	<0.0003	mg/m3		27/02/2024
Flow Rate	370	m3/sec		27/02/2024
Mercury	<0.0003	mg/m3		27/02/2024
Moisture	5.9	%		27/02/2024
Oxygen	7.4	%		27/02/2024
Solid Particles	12	mg/m3		27/02/2024
Temperature	121	degC		27/02/2024
Type 1 and Type 2 substances in Aggregate	<0.018	mg/m3		27/02/2024
Carbon dioxide	12	%		27/02/2024

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		27/02/2024
Flow Rate	330	m3/sec		27/02/2024
Mercury	<0.0003	mg/m3		27/02/2024
Moisture	5.1	%		27/02/2024
Oxygen	6.3	%		27/02/2024
Solid Particles	6.3	mg/m3		27/02/2024
Temperature	123	degC		27/02/2024
Type 1 and Type 2 substances in Aggregate	<0.017	mg/m3		27/02/2024
Carbon dioxide	13.1	12%		27/02/2024

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	<0.0002	mg/m^3	0.2	28/02/2024
Mercury	0.00048	mg/m^3	0.05	28/02/2024
Solid Particles	19	mg/m3	50	28/02/2024
Type 1 and 2 substances in Aggregate	*	mg/m3	0.75	28/02/2024

**Repeat testing recommended*

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	<0.0002	mg/m3		28/02/2024
Flow Rate	400	m3/sec		28/02/2024
Mercury	0.00056	mg/m3		28/02/2024
Moisture	6.4	%		28/02/2024
Oxygen	7.1	%		28/02/2024
Solid Particles	18	mg/m3		28/02/2024
Temperature	126	degC		28/02/2024
Type 1 and Type 2 substances in Aggregate	*	mg/m3		28/02/2024
Carbon dioxide	12.7	%		28/02/2024

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	<0.0003	mg/m3		28/02/2024
Flow Rate	380	m3/sec		28/02/2024
Mercury	0.00039	mg/m3		28/02/2024
Moisture	5.6	%		28/02/2024
Oxygen	6.3	%		28/02/2024
Solid Particles	19	mg/m3		28/02/2024
Temperature	122	degC		28/02/2024
Type 1 and Type 2 substances in Aggregate	<0.14	mg/m3		28/02/2024
Carbon dioxide	12.7	%		28/02/2024

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	<0.0002	mg/m3	0.2	29/02/2024
Mercury	<0.0005	mg/m3	0.05	29/02/2024
Solid Particles	5.7	mg/m3	50	29/02/2024
Type 1 and 2 substances in Aggregate	<0.06	mg/m3	0.75	29/02/2024

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		29/02/2024
Flow Rate	360	m3/sec		29/02/2024
Mercury	<0.0003	mg/m3		29/02/2024
Moisture	5.8	%		29/02/2024
Oxygen	7.2	%		29/02/2024
Solid Particles	2.5	mg/m3		29/02/2024
Temperature	126	degC		29/02/2024
Type 1 and Type 2 substances in Aggregate	<0.011	mg/m3		29/02/2024
Carbon dioxide	11.7	%		29/02/2024

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	<0.0002	mg/m3		29/02/2024
Flow Rate	420	m3/sec		29/02/2024
Mercury	0.00067	mg/m3		29/02/2024
Moisture	6.6	%		29/02/2024
Oxygen	7.2	%		29/02/2024
Solid Particles	8.4	mg/m3		29/02/2024
Temperature	120	degC		29/02/2024
Type 1 and Type 2 substances in Aggregate	<0.019	mg/m3		29/02/2024
Carbon dioxide	12.4	%		29/02/2024

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	<0.0003	mg/m3	0.2	1/03/2024
Mercury	0.00089	mg/m3	0.05	1/03/2024
Solid Particles	19	mg/m3	50	1/03/2024
Type 1 and 2 substances in Aggregate	<0.05	mg/m3	0.75	1/03/2024

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	<0.0004	mg/m^3		1/03/2024
Flow Rate	180	m^3/sec		1/03/2024
Mercury	0.00083	mg/m^3		1/03/2024
Moisture	6.5	%		1/03/2024
Oxygen	8.3	%		1/03/2024
Solid Particles	8.6	mg/m^3		1/03/2024
Temperature	96	degC		1/03/2024
Type 1 and Type 2 substances in Aggregate	<0.044	mg/m^3		1/03/2024
Carbon dioxide	11.4	%		1/03/2024

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	<0.0003	mg/m^3		1/03/2024
Flow Rate	450	m^3/sec		1/03/2024
Mercury	0.00092	mg/m^3		1/03/2024
Moisture	6.1	%		1/03/2024
Oxygen	8.7	%		1/03/2024
Solid Particles	23	mg/m^3		1/03/2024
Temperature	115	degC		1/03/2024
Type 1 and Type 2 substances in Aggregate	<0.047	mg/m^3		1/03/2024
Carbon dioxide	10.6	%		1/03/2024

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
ER2	17	1.3	1.0	2.3
ER4	18	0.4	0.3	0.7
ER6	19	0.4	0.1	0.5
U6	20	1.1	1.5	2.6

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
19.06	0.5	20.67	8.08	21.6	86.1	6.66	0.5

Laboratory Analysis

Name	Reading	Units	Date
Aluminium	0.346	mg/L	8/05/24
Ammonia	<0.005	mg/L	8/05/24
Arsenic III	<0.004	mg/L	8/05/24
Arsenic V	<0.004	mg/L	8/05/24
Cadmium	<0.0002	mg/L	8/05/24
Chromium (Trivalent)	<0.001	mg/L	8/05/24
Chromium (VI) Compounds	<0.001	mg/L	8/05/24
Copper	0.002	mg/L	8/05/24
Iron	0.441	mg/L	8/05/24
Lead	0.0004	mg/L	8/05/24
Manganese	0.0234	mg/L	8/05/24
Nickel	0.0007	mg/L	8/05/24
pH	7.94	pH units	8/05/24
Selenium	<0.002	mg/L	8/05/24
Total Suspended Solids	6	mg/L	8/05/24
Vanadium	0.0028	mg/L	8/05/24
Zinc	0.006	mg/L	8/05/24

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
19	0.5	21.21	8.08	24.8	72.7	5.5	1

Laboratory Analysis

Name	Reading	Units	Date
Aluminium	0.306	mg/L	8/5/24
Ammonia	0.009	mg/L	8/5/24
Arsenic III	<0.004	mg/L	8/5/24
Arsenic V	<0.004	mg/L	8/5/24
Cadmium	<0.0002	mg/L	8/5/24
Chromium (Trivalent)	<0.001	mg/L	8/5/24
Chromium (VI) Compounds	<0.001	mg/L	8/5/24
Copper	0.001	mg/L	8/5/24
Iron	0.324	mg/L	8/5/24
Lead	<0.0002	mg/L	8/5/24
Manganese	0.0153	mg/L	8/5/24
Nickel	<0.0005	mg/L	8/5/24
pH	8.01	pH units	8/5/24
Selenium	<0.002	mg/L	8/5/24
Total Suspended Solids	11	mg/L	8/5/24
Vanadium	0.0035	mg/L	8/5/24
Zinc	<0.005	mg/L	8/5/24

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
18.26	0.5	18.94	7.9	25	115	8.94	1.5

Laboratory Analysis

Name	Reading	Units	Date
Aluminium	0.155	mg/L	8/5/24
Ammonia	0.006	mg/L	8/5/24
Arsenic III	<0.004	mg/L	8/5/24
Arsenic V	<0.004	mg/L	8/5/24
Cadmium	<0.0002	mg/L	8/5/24
Chromium (Trivalent)	<0.001	mg/L	8/5/24
Chromium (VI) Compounds	<0.001	mg/L	8/5/24
Copper	0.002	mg/L	8/5/24
Iron	0.143	mg/L	8/5/24
Lead	0.0004	mg/L	8/5/24
Manganese	0.0088	mg/L	8/5/24
Nickel	<0.0005	mg/L	8/5/24
pH	8.1	pH units	8/5/24
Selenium	<0.002	mg/L	8/5/24
Total Suspended Solids	6	mg/L	8/5/24
Vanadium	0.0022	mg/L	8/5/24
Zinc	0.008	mg/L	8/5/24

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
18.18	0.5	19.47	7.70	15.2	121.6	9.83	0.5

Laboratory Analysis

Name	Reading	Units	Date
Aluminium	0.566	mg/L	8/5/24
Ammonia	0.026	mg/L	8/5/24
Arsenic III	<0.004	mg/L	8/5/24
Arsenic V	<0.004	mg/L	8/5/24
Cadmium	<0.0002	mg/L	8/5/24
Chromium (Trivalent)	<0.001	mg/L	8/5/24
Chromium (VI) Compounds	<0.001	mg/L	8/5/24
Copper	0.002	mg/L	8/5/24
Iron	0.776	mg/L	8/5/24
Lead	0.0003	mg/L	8/5/24
Manganese	0.0336	mg/L	8/5/24
Nickel	0.001	mg/L	8/5/24
pH	7.78	pH units	8/5/24
Selenium	<0.002	mg/L	8/5/24
Total Suspended Solids	8	mg/L	8/5/24
Vanadium	0.0025	mg/L	8/5/24
Zinc	<0.005	mg/L	8/5/24

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	0.362	mg/L	-	2/05/24
Ammonia	0.73	mg/L	-	2/05/24
Arsenic III	<0.0005	mg/L	-	2/05/24
Arsenic V	0.0098	mg/L	-	2/05/24
Cadmium	0.00005	mg/L	-	2/05/24
Chromium (Trivalent)	<0.001	mg/L	-	2/05/24
Chromium (VI) Compounds	<0.01	mg/L	-	2/05/24
Copper	0.0017	mg/L	-	2/05/24
Iron	0.141	mg/L	-	2/05/24
Lead	0.0002	mg/L	-	2/05/24
Manganese	0.0648	mg/L	-	2/05/24
Nickel	<0.0005	mg/L	-	2/05/24
Nitrite and Nitrate as N	2.03	mg/L	-	2/05/24
Nitrogen	3.1	mg/L	-	2/05/24
pH	8.11	pH units	-	2/05/24
Phosphorus as P	0.3	mg/L	-	2/05/24
Reactive Phosphorus as P	0.27	mg/L	-	2/05/24
Selenium	0.151	mg/L	-	2/05/24
Total Kjeldahl Nitrogen	1.1	mg/L	-	2/05/24
Total Suspended Solids	10	mg/L	-	2/05/24
Vanadium	0.044	mg/L	-	2/05/24
Zinc	0.002	mg/L	-	2/05/24

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	0.09	mg/L	-	2/05/24
Ammonia	0.006	mg/L	-	2/05/24
Arsenic III	<0.004	mg/L	-	2/05/24
Arsenic V	<0.004	mg/L	-	2/05/24
Cadmium	0.00005	mg/L	-	2/05/24
Chromium (Trivalent)	0.001	mg/L	-	2/05/24
Chromium (VI) Compounds	0.01	mg/L	-	2/05/24
Copper	0.0012	mg/L	-	2/05/24
Iron	0.119	mg/L	-	2/05/24
Lead	<0.0002	mg/L	-	2/05/24
Manganese	0.009	mg/L	-	2/05/24
Nickel	0.0007	mg/L	-	2/05/24
pH	8.13	pH units	-	2/05/24
Selenium	<0.001	mg/L	-	2/05/24
Total Suspended Solids	25	mg/L	-	2/05/24
Vanadium	0.0032	mg/L	-	2/05/24
Zinc	<0.005	mg/L	-	2/05/24
Dissolved Oxygen	6.49	mg/L	-	2/05/24
Field Temperature	20	degC	-	2/05/24
Salinity	32.88	ppt	-	2/05/24
Secchi Disk	2.75	m	-	2/05/24
Temperature – Average	19.41	deg C	-	May 24
Temperature – Minimum	11.14	deg C	-	May 24
Temperature - Maximum	24.02	deg C	-	May 24

Eraring Cooling Water Outlet Canal

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

Name	Reading	Units	Licence Limit	Date
Copper	0.0016	mg/L	0.005	2/05/24
Iron	0.147	mg/L	0.3	2/05/24
Selenium	<0.001	mg/L	0.002	2/05/24

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	27.54	deg C	35.5	37.5	38.5	May 24
Temperature – Minimum	22.26	deg C				May 24
Temperature - Maximum	31.70	deg C				May 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	50.86	ML	150	May 24
Monthly Discharge from Ash Dam	466.9	ML	-	May 24

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, back ground sampling only

Name	Reading	Units	Licence Limit	Date
Aluminium	0.094	mg/L	-	2/05/24
Ammonia	2.52	mg/L	-	2/05/24
Arsenic III	0.0033	mg/L	-	2/05/24
Arsenic V	0.0016	mg/L	-	2/05/24
Cadmium	<0.00005	mg/L	-	2/05/24
Chromium (Trivalent)	<0.001	mg/L	-	2/05/24
Chromium (VI) Compounds	<0.01	mg/L	-	2/05/24
Copper	0.0007	mg/L	-	2/05/24
Iron	6.98	mg/L	-	2/05/24
Lead	<0.0001	mg/L	-	2/05/24
Manganese	0.73	mg/L	-	2/05/24
Nickel	0.0018	mg/L	-	2/05/24
Nitrite and Nitrate as N	0.194	mg/L	-	2/05/24
Nitrogen	2.71	mg/L	-	2/05/24
pH	6.85	pH units	6-9.5	2/05/24
Phosphorus as P	0.36	mg/L	-	2/05/24
Reactive Phosphorus as P	0.096	mg/L	-	2/05/24
Selenium	0.0003	mg/L	-	2/05/24
Total Kjeldahl Nitrogen	2.52	mg/L	-	2/05/24
Total Suspended Solids	30	mg/L	50	2/05/24
Vanadium	0.001	mg/L	-	2/05/24
Zinc	0.001	mg/L	-	2/05/24

MR217

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

MR217 did not discharge in the month, back ground sampling only

Name	Reading	Units	Licence Limit	Date
Aluminium	2.16	mg/L	-	2/05/24
Ammonia	0.022	mg/L	-	2/05/24
Arsenic III	<0.0005	mg/L	-	2/05/24
Arsenic V	<0.0005	mg/L	-	2/05/24
Cadmium	<0.00005	mg/L	-	2/05/24
Chromium (Trivalent)	<0.00005	mg/L	-	2/05/24
Chromium (VI) Compounds	<0.01	mg/L	-	2/05/24
Copper	0.0019	mg/L	-	2/05/24
Iron	1.66	mg/L	-	2/05/24
Lead	0.0014	mg/L	-	2/05/24
Manganese	0.0275	mg/L	-	2/05/24
Nickel	0.0009	mg/L	-	2/05/24
Nitrite and Nitrate as N	0.014	mg/L	-	2/05/24
Nitrogen	0.69	mg/L	-	2/05/24
pH	6.76	pH units	6-9.5	2/05/24
Phosphorus as P		mg/L	-	2/05/24
Reactive Phosphorus as P	0.005	mg/L	-	2/05/24
Selenium	0.0002	mg/L	-	2/05/24
Total Kjeldahl Nitrogen	0.68	mg/L	-	2/05/24
Total Suspended Solids	25	mg/L	50	2/05/24
Vanadium	0.0033	mg/L	-	2/05/24
Zinc	0.013	mg/L	-	2/05/24

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 May 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	-