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

Environmental Monitoring Data April 2022



Unit 1A Boiler Continuous Emission Monitoring Summary

EPA Identification no.7 - Air emissions monitoring, Boiler 1 stack discharge to air
Unit 1A Out of Service 1-8, 20, 22-23 and 26 April.
NOx Unit Out of Service 10-11 and 27-30 April 2022

	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	-	-	-	-	-	-
3 April	-	-	-	-	-	-
4 April	-	-	-	-	-	-
5 April	-	-	-	-	-	-
6 April	-	-	-	-	-	-
7 April	-	-	-	-	-	-
8 April	-	-	-	-	-	-
9 April	364	413	316	321	363	289
10 April	-	-	-	356	411	284
11 April	-	-	-	420	496	343
12 April	392	438	342	427	492	390
13 April	380	419	321	413	500	370
14 April	356	382	319	422	449	378
15 April	361	415	305	382	428	339
16 April	343	378	292	406	456	357
17 April	367	402	324	430	504	359
18 April	357	378	325	494	564	438
19 April	343	372	298	487	632	379
20 April	-	-	-	-	-	-
21 April	379	430	345	476	539	424
22 April	-	-	-	-	-	-
23 April	-	-	-	-	-	-
24 April	336	430	280	447	530	402
25 April	349	412	285	467	546	416
26 April	-	-	-	-	-	-
27 April	-	-	-	548	608	475
28 April	-	-	-	520	568	459
29 April	-	-	-	530	616	451
30 April	-	-	-	447	501	390

Unit 1B Boiler Continuous Emission Monitoring Summary

EPA Identification no.7 - Air emissions monitoring, Boiler 1 stack discharge to air
Unit 1B Out of Service 1-4, 20, 23-24 and 26 April 2022.
NOx Unit Out of Service 10-11 and 22 April 2022

	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	-	-	-	-	-	-
3 April	-	-	-	-	-	-
4 April	-	-	-	-	-	-
5 April	277	343	265	469	536	446
6 April	283	329	263	502	570	453
7 April	290	311	257	533	545	493
8 April	316	356	283	536	577	509
9 April	314	361	286	508	523	498
10 April	-	-	-	509	534	477
11 April	-	-	-	526	553	504
12 April	327	365	284	508	520	493
13 April	328	363	287	527	546	507
14 April	307	327	278	540	556	522
15 April	333	407	263	507	545	485
16 April	315	351	255	524	553	496
17 April	328	376	264	550	621	479
18 April	327	363	290	625	694	570
19 April	308	346	280	620	708	534
20 April	-	-	-	-	-	-
21 April	324	377	290	525	602	474
22 April	-	-	-	571	621	519
23 April	-	-	-	-	-	-
24 April	-	-	-	-	-	-
25 April	314	385	263	551	719	498
26 April	-	-	-	-	-	-
27 April	308	369	275	608	675	549
28 April	319	359	269	559	619	519
29 April	350	439	286	575	636	498
30 April	340	436	241	511	550	484

Unit 2A Boiler Continuous Emission Monitoring Summary

EPA Identification no. 9 - Air emissions monitoring, Boiler 2 stack discharge to air
Unit 2A Out of Service 1, 9-11, 20, 22-23 and 26 April 2022.
SO_2 Unit Out of Service 2-3 and 8 April 2022.

	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	335	427	282	-	-	-
3 April	314	344	284	-	-	-
4 April	391	471	291	471	519	434
5 April	376	403	341	453	496	424
6 April	406	418	388	477	506	438
7 April	410	426	396	479	493	465
8 April	360	399	318	-	-	-
9 April	-	-	-	-	-	-
10 April	-	-	-	-	-	-
11 April	-	-	-	-	-	-
12 April	357	435	285	427	464	401
13 April	400	456	322	444	464	420
14 April	367	406	337	451	477	435
15 April	386	491	306	434	466	401
16 April	381	493	297	431	444	405
17 April	362	432	292	452	520	400
18 April	346	383	306	521	593	476
19 April	321	369	279	528	607	499
20 April	-	-	-	-	-	-
21 April	354	413	288	464	560	422
22 April	-	-	-	-	-	-
23 April	-	-	-	-	-	-
24 April	377	447	318	453	488	424
25 April	325	419	289	437	463	407
26 April	-	-	-	-	-	-
27 April	354	435	305	535	570	503
28 April	362	432	299	495	560	455
29 April	376	468	304	508	595	440
30 April	339	432	274	453	504	422

Unit 2B Boiler Continuous Emission Monitoring Summary

EPA Identification no. 10 - Air emissions monitoring, Boiler 2 stack discharge to air
Unit 2B Out of Service 20-23 and 26 April 2022
NOx Unit Out of Service 1-3, 7-8, 10-11, 16-18and 28-29 April 2022

	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	-	-	-	381	446	276
2 April	-	-	-	390	428	344
3 April	-	-	-	448	485	390
4 April	405	512	264	469	507	436
5 April	378	424	341	456	512	422
6 April	424	442	404	481	519	435
7 April	-	-	-	481	492	451
8 April	-	-	-	403	475	340
9 April	389	466	293	450	488	420
10 April	-	-	-	410	451	353
11 April	-	-	-	379	415	341
12 April	288	334	248	355	390	313
13 April	311	437	249	377	422	331
14 April	320	403	272	421	443	388
15 April	401	533	265	424	468	372
16 April	-	-	-	421	451	371
17 April	-	-	-	447	524	356
18 April	-	-	-	510	583	446
19 April	294	421	221	488	587	405
20 April	-	-	-	-	-	-
21 April	-	-	-	-	-	-
22 April	-	-	-	-	-	-
23 April	-	-	-	-	-	-
24 April	346	420	247	426	477	364
25 April	281	335	234	400	438	344
26 April	-	-	-	-	-	-
27 April	282	343	255	445	515	390
28 April	-	-	-	406	477	349
29 April	-	-	-	426	516	341
30 April	280	345	222	394	449	349

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 3-4, 7-14 April 2022
SO_2 Unit Out of Service 29 April 2022

	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	333	414	283	566	595	536
2 April	321	408	257	558	585	511
3 April	-	-	-	-	-	-
4 April	-	-	-	-	-	-
5 April	398	459	310	564	583	518
6 April	410	450	350	564	605	517
7 April	-	-	-	-	-	-
8 April	-	-	-	-	-	-
9 April	-	-	-	-	-	-
10 April	-	-	-	-	-	-
11 April	-	-	-	-	-	-
12 April	-	-	-	-	-	-
13 April	-	-	-	-	-	-
14 April	-	-	-	-	-	-
15 April	356	421	256	574	606	532
16 April	308	330	246	561	582	507
17 April	300	333	271	601	674	509
18 April	394	435	344	660	698	621
19 April	385	451	339	680	734	623
20 April	388	464	306	611	650	556
21 April	378	485	281	597	655	551
22 April	393	421	357	677	754	585
23 April	418	474	284	659	719	584
24 April	375	448	307	602	648	566
25 April	360	500	282	578	620	544
26 April	426	504	307	692	737	612
27 April	370	492	279	696	778	643
28 April	344	403	274	624	708	542
29 April	353	412	295	-	-	-
30 April	339	383	300	563	651	514

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 29-30 April 2022

	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	307	414	263	530	549	502
2 April	310	405	253	533	559	508
3 April	320	391	275	570	644	521
4 April	358	448	288	566	621	513
5 April	373	423	308	520	549	481
6 April	414	467	355	547	647	491
7 April	377	441	282	555	561	541
8 April	353	417	317	542	582	508
9 April	294	343	259	518	534	504
10 April	290	368	258	509	521	494
11 April	340	416	273	544	555	524
12 April	296	374	260	504	521	485
13 April	354	397	280	524	552	502
14 April	320	377	246	540	555	526
15 April	334	370	260	517	549	497
16 April	286	302	271	508	519	493
17 April	276	312	258	548	613	487
18 April	362	394	329	605	630	580
19 April	367	438	325	621	679	563
20 April	364	460	295	555	594	506
21 April	356	450	280	547	601	496
22 April	341	381	304	627	694	565
23 April	367	392	278	604	649	551
24 April	328	419	292	546	601	521
25 April	326	485	259	532	573	500
26 April	385	448	303	628	665	583
27 April	321	432	266	605	647	558
28 April	307	362	271	555	628	489
29 April	-	-	-	-	-	-
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 1-2, 23 and 29-30 April 2022
NOx Unit Out of Service 3-14 April 2022
SO_2 Unit Out of Service 22 and 28 April 2022

	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	-	-	-	-	-	-
2 April	-	-	-	-	-	-
3 April	-	-	-	562	615	529
4 April	-	-	-	547	595	514
5 April	-	-	-	521	543	475
6 April	-	-	-	532	561	459
7 April	-	-	-	523	548	473
8 April	-	-	-	550	585	516
9 April	-	-	-	533	574	503
10 April	-	-	-	539	829	487
11 April	-	-	-	593	699	127
12 April	-	-	-	577	605	523
13 April	-	-	-	593	614	542
14 April	-	-	-	599	916	488
15 April	387	462	285	608	686	566
16 April	334	358	295	603	685	525
17 April	328	370	285	658	789	554
18 April	415	476	354	705	794	643
19 April	412	484	319	739	1447	625
20 April	417	534	321	636	720	567
21 April	397	516	317	611	694	548
22 April	191	446	4	-	-	-
23 April	-	-	-	-	-	-
24 April	373	501	314	615	661	559
25 April	369	560	290	596	659	568
26 April	422	524	268	681	765	606
27 April	308	474	179	567	639	362
28 April	300	387	231	-	-	-
29 April	-	-	-	-	-	-
30 April	-	-	-	-	-	-

Unit 4B Boiler Continuous Emission Monitoring Summary

EPA Identification no. 14 – Air emissions monitoring, Boiler 4 stack discharge to air
Unit 4B Out of Service 1, 7-8 and 10-30 April 2022
NOx Unit Out of Service 2, 4 and 9 April 2022

	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	-	-	-	589	631	514
3 April	352	389	300	576	694	251
4 April	-	-	-	601	674	518
5 April	377	423	327	591	621	486
6 April	417	455	313	602	653	470
7 April	-	-	-	-	-	-
8 April	-	-	-	-	-	-
9 April	-	-	-	577	599	400
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	-	-	-	-	-	-
24 April	-	-	-	-	-	-
25 April	-	-	-	-	-	-
26 April	-	-	-	-	-	-
27 April	-	-	-	-	-	-
28 April	-	-	-	-	-	-
29 April	-	-	-	-	-	-
30 April	-	-	-	-	-	-

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	<0.02	mg/m^3	20	9/11/2021
Fluorine	13	mg/m^3	30	9/11/2021
Hydrogen chloride	9.6	mg/m^3	50	9/11/2021
Solid Particles	2.2	mg/m^3	50	9/11/2021
Sulfuric acid mist and sulfur trioxide (as SO3)	0.83	mg/m^3	100	9/11/2021
Volatile organic compounds as n-propane equivalent	<0.04	mg/m^3	10	9/11/2021
Cadmium	<0.0002	mg/m^3	0.2	8/02/2022
Mercury	<0.0002	mg/m^3	0.05	8/02/2022
Solid Particles	<2	mg/m^3	50	8/02/2022
Type 1 and 2 substances in Aggregate	<0.02	mg/m^3	0.75	8/02/2022

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

Name	Reading	Units	Licence Limit	Date
Flow Rate	270	m3/sec		9/11/2021
Moisture	5.5	%		9/11/2021
Oxygen	9.1	%		9/11/2021
Solid Particles	2.4	mg/m3		9/11/2021
Temperature	118	degC		9/11/2021
Carbon dioxide	10.9	%		9/11/2021
Chlorine	<0.02	mg/m3		9/11/2021
Fluorine	13	mg/m3		9/11/2021
Hydrogen chloride	9.6	mg/m3		9/11/2021
Sulfuric acid mist and sulfur trioxide (as SO3)	0.83	mg/m3		9/11/2021
Volatile organic compounds as n-propane equivalent	<0.04	mg/m3		9/11/2021
Cadmium	<0.0002	mg/m3		8/02/2022
Flow Rate	270	m3/sec		8/02/2022
Mercury	<0.0002	mg/m3		8/02/2022
Moisture	4.9	%		8/02/2022
Oxygen	8.3	%		8/02/2022
Solid Particles	3.8	mg/m3		8/02/2022
Temperature	114	degC		8/02/2022
Type 1 and Type 2 substances in Aggregate	<0.018	mg/m3		8/02/2022
Carbon dioxide	11.6	%		8/02/2022

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

Name	Reading	Units	Licence Limit	Date
Flow Rate	290	m3/sec		9/11/2021
Moisture	5.8	%		9/11/2021
Oxygen	8.9	%		9/11/2021
Solid Particles	2.1	mg/m3		9/11/2021
Temperature	117	degC		9/11/2021
Carbon dioxide	10.8	%		9/11/2021
Cadmium	<0.0002	mg/m3		8/02/2022
Flow Rate	270	m3/sec		8/02/2022
Mercury	0.00024	mg/m3		8/02/2022
Moisture	4.4	%		8/02/2022
Oxygen	8.5	%		8/02/2022
Solid Particles	<0.8	mg/m3		8/02/2022
Temperature	110	degC		8/02/2022
Type 1 and Type 2 substances in Aggregate	<0.028	mg/m3		8/02/2022
Carbon dioxide	11.7	%		8/02/2022

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	0.025	mg/m^3	20	9/11/2021
Fluorine	14	mg/m^3	30	9/11/2021
Hydrogen chloride	6.2	mg/m^3	50	9/11/2021
Solid Particles	5.5	mg/m^3	50	14/12/2021
Sulfuric acid mist and sulfur trioxide (as SO3)	2	mg/m^3	100	9/11/2021
Volatile organic compounds as n-propane equivalent	0.023	mg/m^3	10	9/11/2021
Cadmium	<0.0002	mg/m^3	0.2	8/02/2022
Mercury	0.00077	mg/m^3	0.05	8/02/2022
Solid Particles	2.4	mg/m^3	50	8/02/2022
Type 1 and 2 substances in Aggregate	<0.02	mg/m^3	0.75	8/02/2022

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

Name	Reading	Units	Licence Limit	Date
Flow Rate	390	m3/sec		9/11/2021
Moisture	5.8	%		9/11/2021
Oxygen	7.5	%		9/11/2021
Solid Particles	5.1	mg/m3		14/12/2021
Temperature	127	degC		9/11/2021
Carbon dioxide	12	%		9/11/2021
Chlorine	0.025	mg/m3		9/11/2021
Fluorine	14	mg/m3		9/11/2021
Hydrogen chloride	6.2	mg/m3		9/11/2021
Sulfuric acid mist and sulfur trioxide (as SO3)	2	mg/m3		9/11/2021
Volatile organic compounds as n-propane equivalent	0.023	mg/m3		9/11/2021
Cadmium	<0.0002	mg/m3		8/02/2022
Flow Rate	250	m3/sec		8/02/2022
Mercury	0.0011	mg/m3		8/02/2022
Moisture	5.8	%		8/02/2022
Oxygen	8.5	%		8/02/2022
Solid Particles	0.97	mg/m3		8/02/2022
Temperature	126	degC		8/02/2022
Type 1 and Type 2 substances in Aggregate	<0.028	mg/m3		8/02/2022
Carbon dioxide	11.7	%		8/02/2022

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

Name	Reading	Units	Licence Limit	Date
Flow Rate	270	m3/sec		14/12/2021
Moisture	5.8	%		14/12/2021
Oxygen	8.3	%		14/12/2021
Solid Particles	5.8	mg/m3		14/12/2021
Temperature	121	degC		14/12/2021
Carbon dioxide	11.6	%		14/12/2021
Cadmium	<0.0002	mg/m3		8/02/2022
Flow Rate	290	m3/sec		8/02/2022
Mercury	0.00048	mg/m3		8/02/2022
Moisture	4.8	%		8/02/2022
Oxygen	9.2	%		8/02/2022
Solid Particles	3.7	mg/m3		8/02/2022
Temperature	111	degC		8/02/2022
Type 1 and Type 2 substances in Aggregate	<0.018	mg/m3		8/02/2022
Carbon dioxide	10.9	%		8/02/2022

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	0.033	mg/m3	20	9/11/2021
Fluorine	7.9	mg/m3	30	9/11/2021
Hydrogen chloride	3.5	mg/m3	50	9/11/2021
Solid Particles	10	mg/m3	50	9/11/2021
Sulfuric acid mist and sulfur trioxide (as SO3)	0.34	mg/m3	100	9/11/2021
Volatile organic compounds as n-propane equivalent	0.31	mg/m3	10	9/11/2021
Cadmium	<0.0003	mg/m3	0.2	15/03/2022
Mercury	0.0004	mg/m3	0.05	15/03/2022
Solid Particles	4.6	mg/m3	50	15/03/2022
Type 1 and 2 substances in Aggregate	<0.02	mg/m3	0.75	15/03/2022

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

Name	Reading	Units	Licence Limit	Date
Flow Rate	310	m3/sec		9/11/2021
Moisture	5.8	%		9/11/2021
Oxygen	9.6	%		9/11/2021
Solid Particles	18	mg/m3		9/11/2021
Temperature	115	degC		9/11/2021
Carbon dioxide	10	%		9/11/2021
Chlorine	0.033	mg/m3		9/11/2021
Fluorine	7.9	mg/m3		9/11/2021
Hydrogen chloride	3.5	mg/m3		9/11/2021
Sulfuric acid mist and sulfur trioxide (as SO3)	0.34	mg/m3		9/11/2021
Volatile organic compounds as n-propane equivalent	0.31	mg/m3		9/11/2021
Cadmium	<0.0003	mg/m3		15/03/2022
Flow Rate	260	m3/sec		15/03/2022
Mercury	0.00048	mg/m3		15/03/2022
Moisture	7.8	%		15/03/2022
Oxygen	8.8	%		15/03/2022
Solid Particles	4.1	mg/m3		15/03/2022
Temperature	111	degC		15/03/2022
Type 1 and Type 2 substances in Aggregate	<0.015	mg/m3		15/03/2022
Carbon dioxide	11.8	%		15/03/2022

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

Name	Reading	Units	Licence Limit	Date
Flow Rate	260	m3/sec		9/11/2021
Moisture	6.2	%		9/11/2021
Oxygen	5.4	%		9/11/2021
Solid Particles	1.3	mg/m3		9/11/2021
Temperature	118	degC		9/11/2021
Carbon dioxide	13.5	%		9/11/2021
Cadmium	<0.0004	mg/m3		15/03/2022
Flow Rate	230	m3/sec		15/03/2022
Mercury	0.00032	mg/m3		15/03/2022
Moisture	5.2	%		15/03/2022
Oxygen	8.6	%		15/03/2022
Solid Particles	5.1	mg/m3		15/03/2022
Temperature	113	degC		15/03/2022
Type 1 and Type 2 substances in Aggregate	<0.02	mg/m3		15/03/2022
Carbon dioxide	11.9	%		15/03/2022

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	0.01	mg/m3	20	7/04/2021
Fluorine	13	mg/m3	30	7/04/2021
Hydrogen chloride	2.7	mg/m3	50	7/04/2021
Solid Particles	6.2	mg/m3	50	29/06/2021
Sulfuric acid mist and sulfur trioxide (as SO3)	2.7	mg/m3	100	7/04/2021
Volatile organic compounds as n-propane equivalent	<0.1	mg/m3	10	7/04/2021
Cadmium	<0.0002	mg/m3	0.2	9/02/2022
Mercury	0.00035	mg/m3	0.05	9/02/2022
Solid Particles	1.8	mg/m3	50	9/02/2022
Type 1 and 2 substances in Aggregate	<0.01	mg/m3	0.75	9/02/2022

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

Name	Reading	Units	Licence Limit	Date
Flow Rate	500	m^3/sec		7/04/2021
Moisture	5.3	%		7/04/2021
Oxygen	10.4	%		7/04/2021
Solid Particles	9.5	mg/m^3		7/04/2021
Temperature	111	degC		7/04/2021
Carbon dioxide	10.4	%		7/04/2021
Chlorine	0.01	mg/m^3		7/04/2021
Fluorine	13	mg/m^3		7/04/2021
Hydrogen chloride	2.7	mg/m^3		7/04/2021
Sulfuric acid mist and sulfur trioxide (as SO3)	2.7	mg/m^3		7/04/2021
Volatile organic compounds as n-propane equivalent	<0.1	mg/m^3		7/04/2021
Cadmium	<0.0002	mg/m^3		9/02/2022
Flow Rate	320	m^3/sec		9/02/2022
Mercury	0.00041	mg/m^3		9/02/2022
Moisture	5.9	%		9/02/2022
Oxygen	7.4	%		9/02/2022
Solid Particles	1.5	mg/m^3		9/02/2022
Temperature	116	degC		9/02/2022
Type 1 and Type 2 substances in Aggregate	<0.015	mg/m^3		9/02/2022
Carbon dioxide	12.8	%		9/02/2022

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

Name	Reading	Units	Licence Limit	Date
Flow Rate	400	m^3/sec		29/06/2021
Moisture	5.9	%		29/06/2021
Oxygen	6.9	%		29/06/2021
Solid Particles	2	mg/m^3		29/06/2021
Temperature	121	degC		29/06/2021
Carbon dioxide	13.4	%		29/06/2021
Cadmium	<0.0002	mg/m^3		9/02/2022
Flow Rate	300	m^3/sec		9/02/2022
Mercury	0.00029	mg/m^3		9/02/2022
Moisture	5.5	%		9/02/2022
Oxygen	5.9	%		9/02/2022
Solid Particles	2.2	mg/m^3		9/02/2022
Temperature	123	degC		9/02/2022
Type 1 and Type 2 substances in Aggregate	<0.014	mg/m^3		9/02/2022
Carbon dioxide	13.7	%		9/02/2022

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	8.4	1.2	9.6
E4	18	0.3	0.2	0.5
E6	19	0.2	0.2	0.4
U6	20	0.6	0.2	0.8

E2 anomalous elevated result due to organic material.

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
22.03	0.50	22.36	7.89	15.6	98.7	7.65	2.00

Name	Reading	Units	Date
Aluminium	0.041	mg/L	5/04/2022
Ammonia	<0.005	mg/L	5/04/2022
Arsenic III	<0.004	mg/	5/04/2022
Arsenic V	<0.004	mg/L	5/04/2022
Cadmium	<0.0002	mg/L	5/04/2022
Chromium (Trivalent)	<0.001	mg/L	5/04/2022
Chromium (VI) Compounds	<0.001	mg/L	5/04/2022
Copper	0.003	mg/L	5/04/2022
Iron	0.033	mg/L	5/04/2022
Lead	0.0003	mg/L	5/04/2022
Manganese	0.0704	mg/L	5/04/2022
Nickel	<0.0005	mg/L	5/04/2022
pH	7.87	pH units	5/04/2022
Selenium	<0.002	mg/L	5/04/2022
Total Suspended Solids	<5	mg/L	5/04/2022
Vanadium	0.0016	mg/L	5/04/2022
Zinc	<0.005	mg/L	5/04/2022

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
22.83	0.50	21.65	7.96	15.4	123.3	9.69	3.25

Name	Reading	Units	Date
Aluminium	0.042	mg/L	5/04/2022
Ammonia	<0.005	mg/L	5/04/2022
Arsenic III	<0.004	mg/L	5/04/2022
Arsenic V	<0.004	mg/L	5/04/2022
Cadmium	<0.0002	mg/L	5/04/2022
Chromium (Trivalent)	<0.001	mg/L	5/04/2022
Chromium (VI) Compounds	<0.001	mg/L	5/04/2022
Copper	0.001	mg/L	5/04/2022
Iron	0.030	mg/L	5/04/2022
Lead	<0.0002	mg/L	5/04/2022
Manganese	0.0514	mg/L	5/04/2022
Nickel	<0.0005	mg/L	5/04/2022
pH	7.97	pH units	5/04/2022
Selenium	<0.002	mg/L	5/04/2022
Total Suspended Solids	<5	mg/L	5/04/2022
Vanadium	0.0018	mg/L	5/04/2022
Zinc	<0.005	mg/L	5/04/2022

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
17.74	0.50	20.86	7.95	15.0	121.8	9.74	2.25

Name	Reading	Units	Date
Aluminium	0.050	mg/L	5/04/2022
Ammonia	<0.005	mg/L	5/04/2022
Arsenic III	<0.004	mg/L	5/04/2022
Arsenic V	<0.004	mg/L	5/04/2022
Cadmium	<0.0002	mg/L	5/04/2022
Chromium (Trivalent)	<0.001	mg/L	5/04/2022
Chromium (VI) Compounds	<0.001	mg/L	5/04/2022
Copper	0.002	mg/L	5/04/2022
Iron	0.034	mg/L	5/04/2022
Lead	0.0004	mg/L	5/04/2022
Manganese	0.0116	mg/L	5/04/2022
Nickel	<0.0005	mg/L	5/04/2022
pH	7.95	pH units	5/04/2022
Selenium	<0.002	mg/L	5/04/2022
Total Suspended Solids	<5	mg/L	5/04/2022
Vanadium	0.0016	mg/L	5/04/2022
Zinc	0.006	mg/L	5/04/2022

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
19.95	0.5	23.46	7.79	14.7	112.8	8.62	2.25

Name	Reading	Units	Date
Aluminium	0.101	mg/L	5/04/2022
Ammonia	<0.005	mg/L	5/04/2022
Arsenic III	<0.004	mg/L	5/04/2022
Arsenic V	<0.004	mg/L	5/04/2022
Cadmium	<0.0002	mg/L	5/04/2022
Chromium (Trivalent)	<0.001	mg/L	5/04/2022
Chromium (VI) Compounds	<0.001	mg/L	5/04/2022
Copper	0.001	mg/L	5/04/2022
Iron	0.142	mg/L	5/04/2022
Lead	<0.0002	mg/L	5/04/2022
Manganese	0.0605	mg/L	5/04/2022
Nickel	<0.0005	mg/L	5/04/2022
pH	7.86	pH units	5/04/2022
Selenium	<0.002	mg/L	5/04/2022
Total Suspended Solids	<5	mg/L	5/04/2022
Vanadium	0.0018	mg/L	5/04/2022
Zinc	<0.005	mg/L	5/04/2022

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	0.261	mg/L	-	6/04/2022
Ammonia	0.52	mg/L	-	6/04/2022
Arsenic III	<0.0005	mg/L	-	6/04/2022
Arsenic V	0.0052	mg/L	-	6/04/2022
Cadmium	<0.00005	mg/L	-	6/04/2022
Chromium (Trivalent)	<0.001	mg/L	-	6/04/2022
Chromium (VI) Compounds	<0.01	mg/L	-	6/04/2022
Copper	0.0008	mg/L	-	6/04/2022
Iron	0.061	mg/L	-	6/04/2022
Lead	0.0001	mg/L	-	6/04/2022
Manganese	0.0563	mg/L	-	6/04/2022
Nickel	0.0010	mg/L	-	6/04/2022
Nitrite and Nitrate as N	0.93	mg/L	-	6/04/2022
Nitrogen	1.6	mg/L	-	6/04/2022
pH	9.08	pH units	-	6/04/2022
Phosphorus as P	0.20	mg/L	-	6/04/2022
Reactive Phosphorus as P	0.19	mg/L	-	6/04/2022
Selenium	0.0121	mg/L	-	6/04/2022
Total Kjeldahl Nitrogen	0.7	mg/L	-	6/04/2022
Total Suspended Solids	6	mg/L	-	6/04/2022
Vanadium	0.0226	mg/L	-	6/04/2022
Zinc	<0.001	mg/L	-	6/04/2022

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	0.105	mg/L	-	6/04/2022
Ammonia	<0.005	mg/L	-	6/04/2022
Arsenic III	<0.004	mg/L	-	6/04/2022
Arsenic V	<0.004	mg/L	-	6/04/2022
Cadmium	<0.0002	mg/L	-	6/04/2022
Chromium (Trivalent)	<0.001	mg/L	-	6/04/2022
Chromium (VI) Compounds	<0.01	mg/L	-	6/04/2022
Copper	0.0019	mg/L	-	6/04/2022
Iron	0.160	mg/L	-	6/04/2022
Lead	<0.0002	mg/L	-	6/04/2022
Manganese	0.0567	mg/L	-	6/04/2022
Nickel	<0.0005	mg/L	-	6/04/2022
pH	7.98	pH units	-	6/04/2022
Selenium	<0.001	mg/L	-	6/04/2022
Total suspended Solids	15	mg/L	-	6/04/2022
Vanadium	0.0024	mg/L	-	6/04/2022
Zinc	<0.005	mg/L	-	6/04/2022
Dissolved Oxygen	16.93	mg/L	-	6/04/2022
Field Temperature	18.4	degC	-	6/04/2022
Salinity	15.4	ppt	-	6/04/2022
Secchi Disk	1.75	m	-	6/04/2022
Temperature – Average	22.71	deg C	-	April 2022
Temperature – Minimum	18.52	deg C	-	April 2022
Temperature - Maximum	25.72	deg C	-	April 2022

Eraring Cooling Water Outlet Canal

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

Name	Reading	Units	Licence Limit	Date
Copper	0.0035	mg/L	0.005	6/04/2022
Iron	**0.352**	mg/L	0.3	6/04/2022
Selenium	<0.001	mg/L	0.002	6/04/2022
Temperature – Average	28.76	deg C	37.5	April 2022
Temperature – Minimum	24.19	deg C	37.5	April 2022
Temperature - Maximum	34.92	deg C	37.5	April 2022
Maximum Daily Discharge from Ash Dam	44.71	ML	150	April 2022
Monthly Discharge from Ash Dam	469.55	ML	-	April 2022

Emergency Discharge – Toe Drain Pond

EPA Identification no. 24 - Emergency discharge to toe drain collection pond
No Discharge during April 2022, background sample only

Name	Reading	Units	Licence Limit	Date
Aluminium	0.040	mg/L	-	6/04/2022
Ammonia	1.51	mg/L	-	6/04/2022
Arsenic III	0.0011	mg/L	-	6/04/2022
Arsenic V	<0.0005	mg/L	-	6/04/2022
Cadmium	<0.00005	mg/L	-	6/04/2022
Chromium (Trivalent)	<0.001	mg/L	-	6/04/2022
Chromium (VI) Compounds	<0.01	mg/L	-	6/04/2022
Copper	0.0084	mg/L	-	6/04/2022
Iron	6.77	mg/L	-	6/04/2022
Lead	0.0006	mg/L	-	6/04/2022
Manganese	0.945	mg/L	-	6/04/2022
Nickel	0.0012	mg/L	-	6/04/2022
Nitrite and Nitrate as N	0.234	mg/L	-	6/04/2022
Nitrogen	1.75	mg/L	-	6/04/2022
pH	6.67	pH units	6-9.5	6/04/2022
Phosphorus as P	0.106	mg/L	-	6/04/2022
Reactive Phosphorus as P	0.020	mg/L	-	6/04/2022
Selenium	<0.0002	mg/L	-	6/04/2022
Total Kjeldahl Nitrogen	1.52	mg/L	-	6/04/2022
Total Suspended Solids	18	mg/L	50	6/04/2022
Vanadium	0.0006	mg/L	-	6/04/2022
Zinc	0.013	mg/L	-	6/04/2022

MR217

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

No Discharge during April 2022

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	0.123	mg/L	9/03/2022
Ammonia	<0.01	mg/L	9/03/2022
Arsenic (III)	<0.0005	mg/L	15/03/2022
Arsenic (V)	<0.0005	mg/L	15/03/2022
Cadmium	<0.00005	mg/L	9/03/2022
Calcium	3	mg/L	9/03/2022
Chromium (trivalent)	<0.01	mg/L	9/03/2022
Chromium (VI) compounds	<0.01	mg/L	9/03/2022
Copper	0.0009	mg/L	9/03/2022
Electrical Conductivity	399	uS/cm	9/03/2022
Iron	0.137	mg/L	9/03/2022
Lead	0.0008	mg/L	9/03/2022
Magnesium	7	mg/L	9/03/2022
Manganese	0.138	mg/L	9/03/2022
Nickel	0.0050	mg/L	9/03/2022
pH	4.84	pH units	9/03/2022
Potassium	4	mg/L	9/03/2022
Selenium	<0.0002	mg/L	9/03/2022
Sodium	75	mg/L	9/03/2022
Standing Water Level	7.160	metres	9/03/2022
Vanadium	0.0002	mg/L	9/03/2022
Zinc	0.034	mg/L	9/03/2022

Groundwater Monitoring
Groundwater Well – MW02

EPA Identification no. 33 – Groundwater Monitoring Well 02

Name	Reading	Units	Date
Aluminium	0.686	mg/L	9/03/2022
Ammonia	5.44	mg/L	9/03/2022
Arsenic (III)	<0.0005	mg/L	15/03/2022
Arsenic (V)	<0.0005	mg/L	15/03/2022
Cadmium	<0.00005	mg/L	9/03/2022
Calcium	328	mg/L	9/03/2022
Chromium (trivalent)	<0.01	mg/L	9/03/2022
Chromium (VI) compounds	<0.01	mg/L	9/03/2022
Copper	0.0032	mg/L	9/03/2022
Electrical Conductivity	26500	uS/cm	9/03/2022
Iron	25.4	mg/L	9/03/2022
Lead	0.0022	mg/L	9/03/2022
Magnesium	475	mg/L	9/03/2022
Manganese	0.774	mg/L	9/03/2022
Nickel	0.0009	mg/L	9/03/2022
pH	6.35	pH units	9/03/2022
Potassium	165	mg/L	9/03/2022
Selenium	0.0006	mg/L	9/03/2022
Sodium	4820	mg/L	9/03/2022
Standing Water Level	3.900	metres	9/03/2022
Vanadium	0.0045	mg/L	9/03/2022
Zinc	0.031	mg/L	9/03/2022

Groundwater Monitoring
Groundwater Well – MW06

EPA Identification no. 34 – Groundwater Monitoring Well 06

Name	Reading	Units	Date
Aluminium	0.212	mg/L	9/03/2022
Ammonia	3.44	mg/L	9/03/2022
Arsenic (III)	0.0055	mg/L	15/03/2022
Arsenic (V)	<0.0005	mg/L	15/03/2022
Cadmium	<0.00005	mg/L	9/03/2022
Calcium	495	mg/L	9/03/2022
Chromium (trivalent)	<0.01	mg/L	9/03/2022
Chromium (VI) compounds	<0.01	mg/L	9/03/2022
Copper	0.0014	mg/L	9/03/2022
Electrical Conductivity	21000	uS/cm	9/03/2022
Iron	11.0	mg/L	9/03/2022
Lead	0.0004	mg/L	9/03/2022
Magnesium	282	mg/L	9/03/2022
Manganese	0.372	mg/L	9/03/2022
Nickel	0.0009	mg/L	9/03/2022
pH	6.53	pH units	9/03/2022
Potassium	125	mg/L	9/03/2022
Selenium	0.0004	mg/L	9/03/2022
Sodium	3580	mg/L	9/03/2022
Standing Water Level	1.265	metres	9/03/2022
Vanadium	0.0014	mg/L	9/03/2022
Zinc	0.009	mg/L	9/03/2022

Groundwater Monitoring
Groundwater Well – EGM/D26

EPA Identification no. 35 – Groundwater Monitoring Well D26
Groundwater well was dry during sampling in April 2022

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	-