



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

Environmental Monitoring Data February 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 23 February 2022
NOx Unit Out of Service 11 February 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 February	348	451	321	707	780	642
2 February	307	330	280	410	687	251
3 February	302	344	266	318	508	231
4 February	307	367	260	313	480	229
5 February	342	408	275	361	496	207
6 February	455	511	305	338	450	236
7 February	359	452	291	305	514	198
8 February	284	320	243	370	656	241
9 February	323	386	269	487	772	258
10 February	339	413	266	614	778	496
11 February	-	-	-	438	597	321
12 February	305	364	268	444	501	375
13 February	331	360	295	447	499	399
14 February	328	369	305	407	464	362
15 February	331	340	319	418	494	347
16 February	342	426	307	481	577	360
17 February	353	405	325	582	707	383
18 February	354	395	316	604	677	533
19 February	308	337	290	548	654	444
20 February	333	370	253	614	729	495
21 February	331	363	299	663	789	546
22 February	334	368	289	610	730	494
23 February	-	-	-		--	
24 February	367	404	330	741	831	602
25 February	412	486	346	762	819	655
26 February	327	372	300	575	641	387
27 February	335	369	292	477	629	341
28 February	333	372	292	424	542	340

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 23-24 and 28 February 2022
NOx Unit Out of Service 12-14 and 26-27 February 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 February	323	393	274	690	736	654
2 February	275	294	256	646	687	613
3 February	281	332	232	660	714	619
4 February	291	361	231	630	719	555
5 February	327	376	269	597	705	552
6 February	473	541	358	590	646	508
7 February	339	420	269	567	681	501
8 February	269	305	233	675	735	608
9 February	318	438	250	653	682	621
10 February	311	399	250	665	702	645
11 February	276	326	237	608	649	554
12 February	-	-	-	686	713	642
13 February	-	-	-	685	734	643
14 February	-	-	-	627	662	599
15 February	318	346	305	659	709	620
16 February	321	377	290	652	749	566
17 February	325	383	274	604	751	506
18 February	316	390	276	635	693	599
19 February	282	313	251	681	768	600
20 February	305	347	250	703	844	595
21 February	300	340	247	676	755	612
22 February	295	337	249	686	774	617
23 February	-	-	-	-	-	-
24 February	-	-	-	-	-	-
25 February	356	432	286	727	782	670
26 February	-	-	-	711	766	675
27 February	-	-	-	718	772	566
28 February	-	-	-	-	-	-

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 14 and 21-28 February 2022
 SO₂ Unit Out of Service 11-12 February 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 February	389	449	318	565	683	463
2 February	318	429	266	559	641	476
3 February	326	447	255	563	673	499
4 February	297	325	251	500	591	449
5 February	291	312	238	454	529	413
6 February	286	328	254	411	477	381
7 February	325	473	269	413	523	354
8 February	266	317	234	542	614	459
9 February	298	381	253	530	596	465
10 February	312	386	241	575	608	534
11 February	266	296	239	-	-	-
12 February	275	341	241	-	-	-
13 February	281	331	242	504	559	402
14 February	-	-	-	-	-	-
15 February	321	369	245	502	544	479
16 February	348	427	297	509	588	442
17 February	351	396	317	486	561	425
18 February	330	383	276	516	545	493
19 February	272	321	251	522	601	485
20 February	277	336	247	547	624	432
21 February	-	-	-	-	-	--
22 February	-	-	-	-	-	--
23 February	-	-	-	-	-	--
24 February	-	-	-	-	-	--
25 February	-	-	-	-	-	--
26 February	-	-	-	-	-	--
27 February	-	-	-	-	-	--
28 February	-	-	-	-	-	--

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 14, 21-28 February 2022
 NOx Unit Out of Service 11-12 February 2022
 SO₂ Unit Out of Service 18-20 February 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 February	313	387	272	498	633	393
2 February	277	436	202	515	650	443
3 February	315	517	201	580	703	445
4 February	294	347	211	521	606	408
5 February	341	387	259	513	616	443
6 February	310	387	209	446	487	360
7 February	313	479	220	418	482	343
8 February	252	322	210	518	686	426
9 February	278	373	208	510	587	436
10 February	268	348	201	505	581	430
11 February	-	-	-	478	560	399
12 February	-	-	-	528	602	390
13 February	292	340	225	531	595	383
14 February	-	-	-	-	-	-
15 February	249	285	232	416	523	382
16 February	264	313	233	406	468	362
17 February	307	395	258	447	584	373
18 February	284	313	259	-	-	-
19 February	291	344	228	-	-	-
20 February	288	342	237	-	-	-
21 February	-	-	-	-	-	-
22 February	-	-	-	-	-	-
23 February	-	-	-	-	-	-
24 February	-	-	-	-	-	-
25 February	-	-	-	-	-	-
26 February	-	-	-	-	-	-
27 February	-	-	-	-	-	-
28 February	-	-	-	-	-	-

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 1-28 February 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 February	-	-	-	-	-	-
2 February	-	-	-	-	-	-
3 February	-	-	-	-	-	-
4 February	-	-	-	-	-	-
5 February	-	-	-	-	-	-
6 February	-	-	-	-	-	-
7 February	-	-	-	-	-	-
8 February	-	-	-	-	-	-
9 February	-	-	-	-	-	-
10 February	-	-	-	-	-	-
11 February	-	-	-	-	-	-
12 February	-	-	-	-	-	-
13 February	-	-	-	-	-	-
14 February	-	-	-	-	-	-
15 February	-	-	-	-	-	-
16 February	-	-	-	-	-	-
17 February	-	-	-	-	-	-
18 February	-	-	-	-	-	-
19 February	-	-	-	-	-	-
20 February	-	-	-	-	-	-
21 February	-	-	-	-	-	-
22 February	-	-	-	-	-	-
23 February	-	-	-	-	-	-
24 February	-	-	-	-	-	-
25 February	-	-	-	-	-	-
26 February	-	-	-	-	-	-
27 February	-	-	-	-	-	-
28 February	-	-	-	-	-	-

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 1-28 February 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 February	-	-	-	-	-	-
2 February	-	-	-	-	-	-
3 February	-	-	-	-	-	-
4 February	-	-	-	-	-	-
5 February	-	-	-	-	-	-
6 February	-	-	-	-	-	-
7 February	-	-	-	-	-	-
8 February	-	-	-	-	-	-
9 February	-	-	-	-	-	-
10 February	-	-	-	-	-	-
11 February	-	-	-	-	-	-
12 February	-	-	-	-	-	-
13 February	-	-	-	-	-	-
14 February	-	-	-	-	-	-
15 February	-	-	-	-	-	-
16 February	-	-	-	-	-	-
17 February	-	-	-	-	-	-
18 February	-	-	-	-	-	-
19 February	-	-	-	-	-	-
20 February	-	-	-	-	-	-
21 February	-	-	-	-	-	-
22 February	-	-	-	-	-	-
23 February	-	-	-	-	-	-
24 February	-	-	-	-	-	-
25 February	-	-	-	-	-	-
26 February	-	-	-	-	-	-
27 February	-	-	-	-	-	-
28 February	-	-	-	-	-	-

Unit 4A Boiler Continuous Emission Monitoring Summary

*EPA Identification no. 13 - Air emissions monitoring, Boiler 4 stack discharge to air
NOx Unit Out of Service 4-6 February 2022
SO2 Unit Out of Service 20-21 February 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 February	402	457	337	605	783	529
2 February	336	399	273	677	747	537
3 February	321	391	252	733	826	647
4 February	-	-	-	648	744	561
5 February	-	-	-	642	756	578
6 February	-	-	-	557	582	502
7 February	359	446	304	546	697	480
8 February	310	357	262	710	810	612
9 February	325	368	255	660	763	590
10 February	342	375	280	682	742	635
11 February	328	369	270	653	740	587
12 February	346	384	298	675	724	615
13 February	359	406	310	670	733	615
14 February	356	391	302	608	677	518
15 February	342	400	266	628	683	577
16 February	387	467	335	611	718	502
17 February	407	522	329	552	647	464
18 February	378	442	213	621	664	551
19 February	362	403	325	681	718	661
20 February	360	467	305	-	-	-
21 February	355	402	309	-	-	-
22 February	345	391	261	635	679	587
23 February	373	423	316	632	714	565
24 February	389	427	314	683	806	610
25 February	398	435	362	666	717	621
26 February	351	400	273	657	721	576
27 February	343	384	294	710	786	674
28 February	330	360	286	654	691	588

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 3-4 February 2022

NOx Unit Out of Service 11 February 2022

SO2 Unit Out of Service 14 and 19-21 February 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 February	478	554	377	698	878	584
2 February	369	472	317	757	896	619
3 February	-	-	-	-	-	-
4 February	-	-	-	-	-	-
5 February	387	426	287	643	790	447
6 February	394	448	316	561	608	501
7 February	379	455	333	575	740	398
8 February	323	369	280	729	822	629
9 February	374	487	293	706	779	597
10 February	374	448	305	725	775	594
11 February	-	-	-	670	753	555
12 February	360	460	311	701	748	615
13 February	376	450	321	692	747	566
14 February	387	486	321	-	-	-
15 February	369	471	301	684	735	605
16 February	446	547	360	686	793	505
17 February	453	524	374	622	755	376
18 February	426	524	226	701	777	591
19 February	391	431	352	-	-	-
20 February	381	496	334	-	-	-
21 February	404	489	312	-	-	-
22 February	425	578	323	757	924	660
23 February	469	550	374	762	902	655
24 February	472	538	359	803	925	696
25 February	491	541	415	786	867	606
26 February	390	464	288	768	886	522
27 February	364	460	299	787	875	476
28 February	397	453	285	747	810	531

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 SO ₃)	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	9/07/2021
Mercury	<0.0002	mg/m ³	0.05	9/07/2021
Solid Particles	2.3	mg/m ³	50	9/07/2021
Type 1 and 2 substances in Aggregate	<0.03	mg/m ³	0.75	9/07/2021

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

Name	Reading	Units	Licence Limit	Date
Flow Rate	270	m ³ /sec		9/11/2021
Moisture	5.5	%		9/11/2021
Oxygen	9.1	%		9/11/2021
Solid Particles	2.4	mg/m ³		9/11/2021
Temperature	118	degC		9/11/2021
Carbon dioxide	10.9	%		9/11/2021
Chlorine	<0.02	mg/m ³		9/11/2021
Fluorine	13	mg/m ³		9/11/2021
Hydrogen chloride	9.6	mg/m ³		9/11/2021
Sulfuric acid mist and sulfur trioxide (as SO ₃)	0.83	mg/m ³		9/11/2021
Volatile organic compounds as n-propane equivalent	<0.04	mg/m ³		9/11/2021
Cadmium	<0.0002	mg/m ³		9/07/2021
Flow Rate	370	m ³ /sec		9/07/2021
Mercury	0.00016	mg/m ³		9/07/2021
Moisture	5.2	%		9/07/2021
Oxygen	7.3	%		9/07/2021
Solid Particles	2.2	mg/m ³		9/07/2021
Temperature	115	degC		9/07/2021
Type 1 and Type 2 substances in Aggregate	<0.040	mg/m ³		9/07/2021
Carbon dioxide	12.5	%		9/07/2021

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

Name	Reading	Units	Licence Limit	Date
Flow Rate	290	m ³ /sec		9/11/2021
Moisture	5.8	%		9/11/2021
Oxygen	8.9	%		9/11/2021
Solid Particles	2.1	mg/m ³		9/11/2021
Temperature	117	degC		9/11/2021
Carbon dioxide	10.8	%		9/11/2021
Cadmium	<0.0002	mg/m ³		9/07/2021
Flow Rate	370	m ³ /sec		9/07/2021
Mercury	<0.0002	mg/m ³		9/07/2021
Moisture	5.7	%		9/07/2021
Oxygen	6.4	%		9/07/2021
Solid Particles	2.3	mg/m ³		9/07/2021
Temperature	119	degC		9/07/2021
Type 1 and Type 2 substances in Aggregate	<0.021	mg/m ³		9/07/2021
Carbon dioxide	12.6	%		9/07/2021

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 SO ₃)	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	7/07/2021
Mercury	0.0016	mg/m ³	0.05	7/07/2021
Solid Particles	4.1	mg/m ³	50	7/07/2021
Type 1 and 2 substances in Aggregate	<0.02	mg/m ³	0.75	7/07/2021

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

Name	Reading	Units	Licence Limit	Date
Flow Rate	390	m ³ /sec		9/11/2021
Moisture	5.8	%		9/11/2021
Oxygen	7.5	%		9/11/2021
Solid Particles	5.1	mg/m ³		14/12/2021
Temperature	127	degC		9/11/2021
Carbon dioxide	12	%		9/11/2021
Chlorine	0.025	mg/m ³		9/11/2021
Fluorine	14	mg/m ³		9/11/2021
Hydrogen chloride	6.2	mg/m ³		9/11/2021
Sulfuric acid mist and sulfur trioxide (as SO ₃)	2	mg/m ³		9/11/2021
Volatile organic compounds as n-propane equivalent	0.023	mg/m ³		9/11/2021
Cadmium	<0.0002	mg/m ³		7/07/2021
Flow Rate	250	m ³ /sec		7/07/2021
Mercury	0.0015	mg/m ³		7/07/2021
Moisture	6.1	%		7/07/2021
Oxygen	8.8	%		7/07/2021
Solid Particles	4.1	mg/m ³		7/07/2021
Temperature	125	degC		7/07/2021
Type 1 and Type 2 substances in Aggregate	<0.015	mg/m ³		7/07/2021
Carbon dioxide	10.5	%		7/07/2021

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

Name	Reading	Units	Licence Limit	Date
Flow Rate	270	m ³ /sec		14/12/2021
Moisture	5.8	%		14/12/2021
Oxygen	8.3	%		14/12/2021
Solid Particles	5.8	mg/m ³		14/12/2021
Temperature	121	degC		14/12/2021
Carbon dioxide	11.6	%		14/12/2021
Cadmium	<0.0003	mg/m ³		7/07/2021
Flow Rate	230	m ³ /sec		7/07/2021
Mercury	0.0018	mg/m ³		7/07/2021
Moisture	11	%		7/07/2021
Oxygen	9.6	%		7/07/2021
Solid Particles	4.2	mg/m ³		7/07/2021
Temperature	115	degC		7/07/2021
Type 1 and Type 2 substances in Aggregate	<0.019	mg/m ³		7/07/2021
Carbon dioxide	10.9	%		7/07/2021

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	<0.0002	mg/m3	0.2	8/07/2021
Mercury	0.00035	mg/m3	0.05	8/07/2021
Solid Particles	4.1	mg/m3	50	8/07/2021
Type 1 and 2 substances in Aggregate	<0.04	mg/m3	0.75	8/07/2021

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	<0.0002	mg/m3		8/07/2021
Flow Rate	370	m3/sec		8/07/2021
Mercury	0.00027	mg/m3		8/07/2021
Moisture	5.4	%		8/07/2021
Oxygen	6.7	%		8/07/2021
Solid Particles	7.0	mg/m3		8/07/2021
Temperature	123	degC		8/07/2021
Type 1 and Type 2 substances in Aggregate	<0.040	mg/m3		8/07/2021
Carbon dioxide	13.1	%		8/07/2021

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	<0.0002	mg/m3		8/07/2021
Flow Rate	330	m3/sec		8/07/2021
Mercury	0.00044	mg/m3		8/07/2021
Moisture	5.4	%		8/07/2021
Oxygen	6.4	%		8/07/2021
Solid Particles	0.8	mg/m3		8/07/2021
Temperature	120	degC		8/07/2021
Type 1 and Type 2 substances in Aggregate	<0.031	mg/m3		8/07/2021
Carbon dioxide	12.6	%		8/07/2021

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/m ³	20	7/04/2021
Fluorine	13	mg/m ³	30	7/04/2021
Hydrogen chloride	2.7	mg/m ³	50	7/04/2021
Solid Particles	6.2	mg/m ³	50	29/06/2021
Sulfuric acid mist and sulfur trioxide (as SO ₃)	2.7	mg/m ³	100	7/04/2021
Volatile organic compounds as n-propane equivalent	<0.1	mg/m ³	10	7/04/2021
Cadmium	<0.0003	mg/m ³	0.2	6/07/2021
Mercury	0.00037	mg/m ³	0.05	6/07/2021
Solid Particles	4.4	mg/m ³	50	6/07/2021
Type 1 and 2 substances in Aggregate	<0.02	mg/m ³	0.75	6/07/2021

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 SO ₃)	2.7	mg/m ³		7/04/2021
Volatile organic compounds as n-propane equivalent	<0.1	mg/m ³		7/04/2021
Cadmium	<0.0003	mg/m ³		6/07/2021
Flow Rate	390	m ³ /sec		6/07/2021
Mercury	0.00049	mg/m ³		6/07/2021
Moisture	5.3	%		6/07/2021
Oxygen	8.8	%		6/07/2021
Solid Particles	7.0	mg/m ³		6/07/2021
Temperature	119	degC		6/07/2021
Type 1 and Type 2 substances in Aggregate	<0.030	mg/m ³		6/07/2021
Carbon dioxide	10.0	%		6/07/2021

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		6/07/2021
Flow Rate	380	m ³ /sec		6/07/2021
Mercury	0.00024	mg/m ³		6/07/2021
Moisture	5.5	%		6/07/2021
Oxygen	6.7	%		6/07/2021
Solid Particles	1.8	mg/m ³		6/07/2021
Temperature	115	degC		6/07/2021
Type 1 and Type 2 substances in Aggregate	<0.011	mg/m ³		6/07/2021
Carbon dioxide	13.0	%		6/07/2021

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/m ² /month		
		Ash	Combustible	Insoluble
E2	17	0.3	0.1	0.4
E4	18	0.2	0.1	0.3
E6	19	0.3	0.5	0.8
U6	20	0.3	0.3	0.6

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
°C	m	degC	pH unit	ppt	%	mg/L	m
25.96	0.50	25.10	8.31	18.3	95.7	6.97	2.25
Name			Reading	Units		Date	
Aluminium			0.078	mg/L		10/02/2022	
Ammonia			<0.010	mg/L		10/02/2022	
Arsenic III			<0.005	mg/		10/02/2022	
Arsenic V			<0.005	mg/L		10/02/2022	
Cadmium			<0.0002	mg/L		10/02/2022	
Chromium (Trivalent)			<0.001	mg/L		10/02/2022	
Chromium (VI) Compounds			<0.001	mg/L		10/02/2022	
Copper			0.001	mg/L		10/02/2022	
Iron			0.056	mg/L		10/02/2022	
Lead			<0.0002	mg/L		10/02/2022	
Manganese			0.0074	mg/L		10/02/2022	
Nickel			<0.0005	mg/L		10/02/2022	
pH			8.06	pH units		10/02/2022	
Selenium			<0.002	mg/L		10/02/2022	
Total Suspended Solids			<5	mg/L		10/02/2022	
Vanadium			0.0025	mg/L		10/02/2022	
Zinc			<0.005	mg/L		10/02/2022	

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
°C	m	degC	pH unit	ppt	%	mg/L	m
23.81	0.50	26.31	8.31	18.4	106.7	7.53	3.25
Name			Reading	Units		Date	
Aluminium			0.029	mg/L		10/02/2022	
Ammonia			<0.010	mg/L		10/02/2022	
Arsenic III			<0.005	mg/L		10/02/2022	
Arsenic V			<0.005	mg/L		10/02/2022	
Cadmium			<0.0002	mg/L		10/02/2022	
Chromium (Trivalent)			<0.001	mg/L		10/02/2022	
Chromium (VI) Compounds			<0.001	mg/L		10/02/2022	
Copper			0.002	mg/L		10/02/2022	
Iron			0.026	mg/L		10/02/2022	
Lead			<0.0002	mg/L		10/02/2022	
Manganese			0.0048	mg/L		10/02/2022	
Nickel			<0.0005	mg/L		10/02/2022	
pH			8.09	pH units		10/02/2022	
Selenium			<0.002	mg/L		10/02/2022	
Total Suspended Solids			<5	mg/L		10/02/2022	
Vanadium			0.0035	mg/L		10/02/2022	
Zinc			<0.005	mg/L		10/02/2022	

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
°C	m	degC	pH unit	ppt	%	mg/L	m
20.54	0.50	23.07	8.42	18.8	114.3	8.57	5.75
Name			Reading		Units		Date
Aluminium			0.018		mg/L		10/02/2022
Ammonia			<0.010		mg/L		10/02/2022
Arsenic III			<0.005		mg/L		10/02/2022
Arsenic V			<0.005		mg/L		10/02/2022
Cadmium			<0.0002		mg/L		10/02/2022
Chromium (Trivalent)			<0.001		mg/L		10/02/2022
Chromium (VI) Compounds			<0.001		mg/L		10/02/2022
Copper			0.001		mg/L		10/02/2022
Iron			<0.005		mg/L		10/02/2022
Lead			0.0002		mg/L		10/02/2022
Manganese			0.0051		mg/L		10/02/2022
Nickel			<0.0005		mg/L		10/02/2022
pH			7.90		pH units		10/02/2022
Selenium			<0.002		mg/L		10/02/2022
Total Suspended Solids			<5		mg/L		10/02/2022
Vanadium			0.0021		mg/L		10/02/2022
Zinc			<0.005		mg/L		10/02/2022

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
°C	m	degC	pH unit	ppt	%	mg/L	m
21.37	0.5	27.07	8.29	18.5	106.4	7.49	3.75
Name			Reading	Units		Date	
Aluminium			0.097	mg/L		10/02/2022	
Ammonia			<0.010	mg/L		10/02/2022	
Arsenic III			<0.005	mg/L		10/02/2022	
Arsenic V			<0.005	mg/L		10/02/2022	
Cadmium			<0.0002	mg/L		10/02/2022	
Chromium (Trivalent)			<0.001	mg/L		10/02/2022	
Chromium (VI) Compounds			<0.001	mg/L		10/02/2022	
Copper			0.002	mg/L		10/02/2022	
Iron			0.028	mg/L		10/02/2022	
Lead			<0.0002	mg/L		10/02/2022	
Manganese			0.0062	mg/L		10/02/2022	
Nickel			<0.0005	mg/L		10/02/2022	
pH			8.08	pH units		10/02/2022	
Selenium			<0.002	mg/L		10/02/2022	
Total Suspended Solids			<5	mg/L		10/02/2022	
Vanadium			0.0024	mg/L		10/02/2022	
Zinc			<0.005	mg/L		10/02/2022	

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	0.072	mg/L	-	3/02/2022
Ammonia	0.28	mg/L	-	3/02/2022
Arsenic III	<0.0005	mg/L	-	3/02/2022
Arsenic V	0.0051	mg/L	-	3/02/2022
Cadmium	0.00012	mg/L	-	3/02/2022
Chromium (Trivalent)	<0.001	mg/L	-	3/02/2022
Chromium (VI) Compounds	<0.01	mg/L	-	3/02/2022
Copper	0.0010	mg/L	-	3/02/2022
Iron	0.018	mg/L	-	3/02/2022
Lead	<0.0001	mg/L	-	3/02/2022
Manganese	0.0703	mg/L	-	3/02/2022
Nickel	0.0016	mg/L	-	3/02/2022
Nitrite and Nitrate as N	0.56	mg/L	-	3/02/2022
Nitrogen	1.2	mg/L	-	3/02/2022
pH	8.27	pH units	-	3/02/2022
Phosphorus as P	0.42	mg/L	-	3/02/2022
Reactive Phosphorus as P	0.36	mg/L	-	3/02/2022
Selenium	0.0225	mg/L	-	3/02/2022
Total Kjeldahl Nitrogen	0.6	mg/L	-	3/02/2022
Total Suspended Solids	4	mg/L	-	3/02/2022
Vanadium	0.0272	mg/L	-	3/02/2022
Zinc	0.001	mg/L	-	3/02/2022

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	0.123	mg/L	-	3/02/2022
Ammonia	<0.005	mg/L	-	3/02/2022
Arsenic III	<0.005	mg/L	-	3/02/2022
Arsenic V	<0.005	mg/L	-	3/02/2022
Cadmium	<0.0002	mg/L	-	3/02/2022
Chromium (Trivalent)	<0.001	mg/L	-	3/02/2022
Chromium (VI) Compounds	<0.01	mg/L	-	3/02/2022
Copper	0.0031	mg/L	-	3/02/2022
Iron	0.096	mg/L	-	24/02/2022
Lead	0.0002	mg/L	-	3/02/2022
Manganese	0.0122	mg/L	-	3/02/2022
Nickel	<0.0005	mg/L	-	3/02/2022
pH	8.00	pH units	-	3/02/2022
Selenium	<0.001	mg/L	-	3/02/2022
Total suspended Solids	<5	mg/L	-	3/02/2022
Vanadium	0.0026	mg/L	-	3/02/2022
Zinc	<0.005	mg/L	-	3/02/2022
Dissolved Oxygen	6.00	mg/L	-	3/02/2022
Field Temperature	19.9	degC	-	3/02/2022
Salinity	17.8	ppt	-	3/02/2022
Secchi Disk	2.25	m	-	3/02/2022
Temperature – Average	26.01	deg C	-	February 2022
Temperature – Minimum	23.55	deg C	-	February 2022
Temperature - Maximum	29.82	deg C	-	February 2022

Eraring Cooling Water Outlet Canal

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

Name	Reading	Units	Licence Limit	Date
Copper	0.0039	mg/L	0.005	3/02/2022
Iron	0.150	mg/L	0.3	24/02/2022
Selenium	<0.001	mg/L	0.002	3/02/2022
Temperature – Average	31.16	deg C	37.5	February 2022
Temperature – Minimum	26.37	deg C	37.5	February 2022
Temperature - Maximum	36.38	deg C	37.5	February 2022
Maximum Daily Discharge from Ash Dam	9.45	ML	150	February 2022
Monthly Discharge from Ash Dam	72.64	ML	-	February 2022

Emergency Discharge – Toe Drain Pond

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

Name	Reading	Units	Licence Limit	Date
Aluminium	0.008	mg/L	-	3/02/2022
Ammonia	1.28	mg/L	-	3/02/2022
Arsenic III	<0.001	mg/L	-	3/02/2022
Arsenic V	<0.001	mg/L	-	3/02/2022
Cadmium	<0.00005	mg/L	-	3/02/2022
Chromium (Trivalent)	<0.001	mg/L	-	3/02/2022
Chromium (VI) Compounds	<0.01	mg/L	-	3/02/2022
Copper	<0.0005	mg/L	-	3/02/2022
Iron	4.36	mg/L	-	3/02/2022
Lead	<0.0001	mg/L	-	3/02/2022
Manganese	0.843	mg/L	-	3/02/2022
Nickel	0.0011	mg/L	-	3/02/2022
Nitrite and Nitrate as N	0.141	mg/L	-	3/02/2022
Nitrogen	1.60	mg/L	-	3/02/2022
pH	6.75	pH units	6-9.5	3/02/2022
Phosphorus as P	0.137	mg/L	-	3/02/2022
Reactive Phosphorus as P	0.017	mg/L	-	3/02/2022
Selenium	<0.0002	mg/L	-	3/02/2022
Total Kjeldahl Nitrogen	1.46	mg/L	-	3/02/2022
Total Suspended Solids	16	mg/L	50	3/02/2022
Vanadium	0.0004	mg/L	-	3/02/2022
Zinc	0.003	mg/L	-	3/02/2022

MR217

EPA Identification no. 23 - Emergency discharge from ash dam outlet at culvert
No Discharge during February 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	0.199	mg/L	7/12/2021
Ammonia	0.07	mg/L	7/12/2021
Arsenic (III)	<0.0005	mg/L	7/12/2021
Arsenic (V)	<0.0005	mg/L	7/12/2021
Cadmium	<0.00005	mg/L	7/12/2021
Calcium	2	mg/L	7/12/2021
Chromium (trivalent)	<0.01	mg/L	7/12/2021
Chromium (VI) compounds	<0.01	mg/L	7/12/2021
Copper	0.0011	mg/L	7/12/2021
Electrical Conductivity	406	uS/cm	7/12/2021
Iron	0.084	mg/L	7/12/2021
Lead	0.0010	mg/L	7/12/2021
Magnesium	4	mg/L	7/12/2021
Manganese	0.148	mg/L	7/12/2021
Nickel	0.0058	mg/L	7/12/2021
pH	4.88	pH units	7/12/2021
Potassium	4	mg/L	7/12/2021
Selenium	<0.0002	mg/L	7/12/2021
Sodium	61	mg/L	7/12/2021
Standing Water Level	8.180	metres	7/12/2021
Vanadium	0.0003	mg/L	7/12/2021
Zinc	0.051	mg/L	7/12/2021

**Groundwater Monitoring
Groundwater Well – MW02**

EPA Identification no. 33 – Groundwater Monitoring Well 02

Name	Reading	Units	Date
Aluminium	0.687	mg/L	7/12/2021
Ammonia	3.14	mg/L	7/12/2021
Arsenic (III)	0.0036	mg/L	7/12/2021
Arsenic (V)	0.0039	mg/L	7/12/2021
Cadmium	<0.00005	mg/L	7/12/2021
Calcium	234	mg/L	7/12/2021
Chromium (trivalent)	<0.01	mg/L	7/12/2021
Chromium (VI) compounds	<0.01	mg/L	7/12/2021
Copper	0.0018	mg/L	7/12/2021
Electrical Conductivity	14500	uS/cm	7/12/2021
Iron	7.88	mg/L	7/12/2021
Lead	0.0024	mg/L	7/12/2021
Magnesium	204	mg/L	7/12/2021
Manganese	0.89	mg/L	7/12/2021
Nickel	0.0012	mg/L	7/12/2021
pH	6.47	pH units	7/12/2021
Potassium	99	mg/L	7/12/2021
Selenium	0.0003	mg/L	7/12/2021
Sodium	2430	mg/L	7/12/2021
Standing Water Level	4.015	metres	7/12/2021
Vanadium	0.0035	mg/L	7/12/2021
Zinc	0.048	mg/L	7/12/2021

**Groundwater Monitoring
Groundwater Well – MW06**

EPA Identification no. 34 – Groundwater Monitoring Well 06

Name	Reading	Units	Date
Aluminium	0.032	mg/L	7/12/2021
Ammonia	3.18	mg/L	7/12/2021
Arsenic (III)	<0.005	mg/L	7/12/2021
Arsenic (V)	<0.005	mg/L	7/12/2021
Cadmium	<0.0002	mg/L	7/12/2021
Calcium	457	mg/L	7/12/2021
Chromium (trivalent)	<0.01	mg/L	7/12/2021
Chromium (VI) compounds	<0.01	mg/L	7/12/2021
Copper	<0.001	mg/L	7/12/2021
Electrical Conductivity	20400	uS/cm	7/12/2021
Iron	12.4	mg/L	7/12/2021
Lead	<0.0002	mg/L	7/12/2021
Magnesium	266	mg/L	7/12/2021
Manganese	0.407	mg/L	7/12/2021
Nickel	0.0008	mg/L	7/12/2021
pH	6.56	pH units	7/12/2021
Potassium	116	mg/L	7/12/2021
Selenium	<0.002	mg/L	7/12/2021
Sodium	3380	mg/L	7/12/2021
Standing Water Level	1.725	metres	7/12/2021
Vanadium	0.0010	mg/L	7/12/2021
Zinc	0.015	mg/L	7/12/2021

Groundwater Monitoring
Groundwater Well – EGM/D26

EPA Identification no. 35 – Groundwater Monitoring Well D26
Groundwater well was dry during sampling in December 2021

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	-