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

Environmental Monitoring Data February 2023



Unit 1A Boiler Continuous Emission Monitoring Summary

EPA Identification no.7 - Air emissions monitoring, Boiler 1 stack discharge to air
Unit 1A Unit Out of Service16 February 2023.

	NOx			SO_2		
	mg/Nm^3 (7% O_2)			mg/Nm^3 (7% O_2)		
	Daily Ave	Max Hourly	Min Hourly	Daily Ave	Max Hourly	Min Hourly
1 February	369	430	296	722	839	639
2 February	286	347	262	501	703	416
3 February	299	359	272	582	766	482
4 February	305	376	272	569	774	519
5 February	334	407	246	545	632	468
6 February	331	440	241	592	801	527
7 February	255	393	35	467	648	63
8 February	273	360	239	606	676	533
9 February	309	427	241	670	736	625
10 February	288	363	255	594	637	532
11 February	286	363	258	634	709	550
12 February	313	422	273	650	865	546
13 February	378	436	293	638	756	518
14 February	346	404	302	609	731	510
15 February	393	442	324	634	749	502
16 February	-	-	-	-	-	-
17 February	373	482	316	713	868	621
18 February	397	459	310	637	751	529
19 February	403	502	322	628	749	569
20 February	382	520	274	624	827	552
21 February	355	400	294	612	690	520
22 February	316	396	282	543	682	401
23 February	351	455	275	558	630	481
24 February	345	398	313	521	578	438
25 February	349	396	300	533	583	436
26 February	360	430	284	531	579	461
27 February	300	368	273	536	576	477
28 February	311	361	272	551	584	504

Unit 1B Boiler Continuous Emission Monitoring Summary

EPA Identification no.7 - Air emissions monitoring, Boiler 1 stack discharge to air
Unit 1B Unit Out of Service of 10 and 17 February 2023.
NOx Unit Out of Service 23 and 26-27 February *2023.*

	NOx			**SO_2**		
	mg/Nm³ (7% O_2)			**mg/Nm³ (7% O_2)**		
	Daily Ave	**Max Hourly**	**Min Hourly**	**Daily Ave**	**Max Hourly**	**Min Hourly**
1 February	334	389	279	667	704	619
2 February	299	331	254	546	593	521
3 February	273	293	248	583	623	533
4 February	295	342	256	601	641	567
5 February	335	408	260	581	632	540
6 February	313	405	236	570	608	535
7 February	270	390	101	500	638	22
8 February	286	410	250	651	688	611
9 February	312	395	257	695	740	649
10 February	-	-	-	-	-	-
11 February	291	381	249	688	753	624
12 February	285	337	256	662	698	624
13 February	294	376	250	598	615	573
14 February	297	346	246	566	617	526
15 February	319	397	254	601	654	551
16 February	317	437	238	566	588	546
17 February	-	-	-	-	-	-
18 February	328	386	263	590	639	554
19 February	326	415	256	582	610	541
20 February	334	403	265	581	646	547
21 February	317	384	262	631	690	603
22 February	290	415	246	654	705	599
23 February	-	-	-	636	675	602
24 February	304	376	256	580	640	541
25 February	326	417	268	579	605	557
26 February	-	-	-	568	601	526
27 February	-	-	-	561	595	529
28 February	302	355	263	580	600	562

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 1-2 February 2023

	NOx			SO_2		
	mg/Nm^3 (7% O_2)			mg/Nm^3 (7% O_2)		
	Daily Ave	Max Hourly	Min Hourly	Daily Ave	Max Hourly	Min Hourly
1 February	-	-	-	-	-	-
2 February	-	-	-	-	-	-
3 February	362	475	261	505	557	443
4 February	328	380	285	512	561	452
5 February	341	427	269	489	550	440
6 February	342	424	249	464	501	429
7 February	330	416	259	472	500	440
8 February	320	425	243	533	581	498
9 February	297	344	252	600	641	545
10 February	302	365	244	531	574	493
11 February	295	320	262	567	634	508
12 February	303	340	277	526	579	473
13 February	320	365	275	497	523	468
14 February	331	392	293	474	499	437
15 February	334	370	292	494	534	459
16 February	382	525	302	490	520	469
17 February	392	548	281	511	576	486
18 February	468	581	283	513	575	474
19 February	400	537	272	475	506	448
20 February	295	342	232	495	512	469
21 February	297	391	234	537	674	484
22 February	312	372	278	578	706	525
23 February	333	461	233	527	599	488
24 February	377	493	274	517	575	474
25 February	410	544	304	494	524	459
26 February	452	584	281	495	525	432
27 February	338	398	277	465	484	444
28 February	387	481	266	469	480	454

-Unit 2B Boiler Continuous Emission Monitoring Summary

EPA Identification no. 10 - Air emissions monitoring, Boiler 2 stack discharge to air
Unit 2B Unit Out of Service 1-7, 9 and 11-13 February 2023

	NOx			SO_2		
	mg/Nm^3 (7% O_2)			mg/Nm^3 (7% O_2)		
	Daily Ave	Max Hourly	Min Hourly	Daily Ave	Max Hourly	Min Hourly
1 February	-	-	-	-	-	-
2 February	-	-	-	-	-	-
3 February	-	-	-	-	-	-
4 February	-	-	-	-	-	-
5 February	-	-	-	-	-	-
6 February	-	-	-	--	-	-
7 February	-	-	-	-	-	-
8 February	244	329	203	418	509	290
9 February	-	-	-	-	-	-
10 February	253	290	213	443	518	338
11 February	-	-	-	-	-	-
12 February	-	-	-	-	-	-
13 February	-	-	-	-	-	-
14 February	263	335	200	394	495	326
15 February	295	385	202	420	493	317
16 February	310	471	217	406	479	338
17 February	315	490	212	434	549	358
18 February	392	524	195	437	551	302
19 February	329	520	185	385	472	276
20 February	228	286	175	389	478	280
21 February	253	317	195	438	588	321
22 February	250	342	178	461	640	338
23 February	293	427	180	430	498	334
24 February	323	431	183	425	506	323
25 February	337	455	210	398	445	287
26 February	380	533	200	400	485	274
27 February	259	331	169	359	413	287
28 February	317	500	187	364	419	269

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 1-9, 11, 23, 25 and 27 February 2023
NOx Unit Out of Service 24 February 2023
SO_2 Unit Out of service 12-13 February 2023

	NOx			SO_2		
	mg/Nm³ (7% O_2)			mg/Nm³ (7% O_2)		
	Daily Ave	Max Hourly	Min Hourly	Daily Ave	Max Hourly	Min Hourly
1 February	-	-	-	-	-	-
2 February	-	-	-	-	-	-
3 February	-	-	-	-	-	-
4 February	-	-	-	-		-
5 February	-	-	-	-	-	-
6 February	-	-	-	-	-	-
7 February	-	-	-	-	-	-
8 February	-	-	-	-	-	-
9 February	-	-	-	-	-	-
10 February	324	384	273	676	728	646
11 February	-	-	-	-	-	-
12 February	343	406	311	-	-	-
13 February	352	402	283	-	-	
14 February	337	391	320	635	714	603
15 February	355	432	299	646	696	605
16 February	366	408	297	623	665	600
17 February	353	424	272	661	739	611
18 February	443	552	334	637	750	592
19 February	329	388	303	614	665	570
20 February	362	456	278	623	683	577
21 February	392	425	358	683	836	628
22 February	355	419	298	725	847	667
23 February	-	-	-	-	-	-
24 February	-	-	-	642	696	591
25 February	-	-	-	-	-	-
26 February	394	478	343	618	642	583
27 February	-	-	-	-	-	
28 February	345	426	278	601	620	572

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 1-7, 23 and 27 February 2023
SO_2 Unit Out of service 24-25 February 2023

	NOx			**SO_2**		
	mg/Nm^3 (7% O_2)			**mg/Nm^3 (7% O_2)**		
	Daily Ave	**Max Hourly**	**Min Hourly**	**Daily Ave**	**Max Hourly**	**Min Hourly**
1 February	-	-	-	-	-	-
2 February	-	-	-	-	-	-
3 February	-	-	-	-	-	-
4 February	-	-	-	-	-	-
5 February	-	-	-	-	-	-
6 February	-	-	-	-	-	-
7 February	-	-	-	-	-	-
8 February	391	591	250	696	766	579
9 February	313	362	273	731	786	669
10 February	314	400	273	646	686	602
11 February	336	469	284	699	759	646
12 February	328	425	292	666	705	617
13 February	337	456	293	607	637	576
14 February	307	337	295	573	603	550
15 February	336	461	272	600	652	548
16 February	355	423	288	595	646	574
17 February	351	464	280	632	697	586
18 February	412	466	330	611	676	574
19 February	337	364	295	596	645	557
20 February	359	475	273	603	657	560
21 February	378	453	333	656	792	608
22 February	351	461	303	694	782	639
23 February	-	-	-	-	-	-
24 February	332	370	299	-	-	-
25 February	337	458	274	-	-	-
26 February	355	477	302	571	606	541
27 February	-	-	-	-	-	-
28 February	339	438	275	573	603	548

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 February	320	380	277	609	635	562
2 February	248	284	209	526	628	481
3 February	281	330	187	552	751	499
4 February	341	384	237	561	596	510
5 February	341	395	276	531	590	485
6 February	333	406	249	528	552	486
7 February	289	377	202	537	578	465
8 February	359	493	238	623	675	534
9 February	335	472	263	707	804	648
10 February	327	394	250	628	684	594
11 February	353	452	284	655	737	598
12 February	349	430	283	603	649	538
13 February	336	415	279	565	596	527
14 February	342	397	261	544	573	504
15 February	364	432	307	587	661	485
16 February	342	405	281	594	656	558
17 February	385	468	305	596	646	553
18 February	364	398	198	588	659	528
19 February	370	393	314	547	619	516
20 February	365	480	289	574	647	536
21 February	401	481	337	608	670	554
22 February	389	493	307	651	725	573
23 February	389	566	301	605	672	519
24 February	397	444	346	564	637	500
25 February	430	494	341	547	582	513
26 February	476	569	344	556	600	501
27 February	395	490	253	522	552	476
28 February	393	459	288	549	578	506

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 23 and 27 February 2023

	NOx			SO_2		
	mg/Nm^3 (7% O_2)			mg/Nm^3 (7% O_2)		
	Daily Ave	Max Hourly	Min Hourly	Daily Ave	Max Hourly	Min Hourly
1 February	359	442	284	656	691	497
2 February	273	320	239	522	646	419
3 February	301	365	247	559	594	477
4 February	330	384	279	571	602	472
5 February	338	390	236	550	606	442
6 February	347	492	239	560	593	470
7 February	297	420	233	550	623	421
8 February	404	677	226	649	734	488
9 February	349	509	268	712	767	565
10 February	331	448	251	631	727	449
11 February	367	504	293	676	743	514
12 February	358	462	303	610	698	486
13 February	349	499	279	557	626	473
14 February	355	419	246	567	636	428
15 February	392	473	292	604	713	499
16 February	334	371	265	570	654	391
17 February	403	494	282	605	680	490
18 February	399	424	354	573	661	458
19 February	393	429	331	536	634	365
20 February	413	550	279	620	681	495
21 February	414	499	346	640	696	540
22 February	400	484	316	636	754	457
23 February	-	-	-	-	-	-
24 February	427	552	371	561	658	421
25 February	454	550	372	546	615	440
26 February	474	596	375	544	609	393
27 February	-	-	-	-	-	-
28 February	435	556	347	572	601	408

Unit 1 Boiler Emission Test Results

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

Name	Reading	Units	Licence Limit	Date
Chlorine	0.014	mg/m^3	20	20/12/2022
Fluorine	9.8	mg/m^3	30	20/12/2022
Hydrogen chloride	13	mg/m^3	50	20/12/2022
Solid Particles	8.8	mg/m^3	50	20/12/2022
Sulfuric acid mist and sulfur trioxide (as SO3)	4.7	mg/m^3	100	20/12/2022
Volatile organic compounds as n-propane equivalent	<0.01	mg/m^3	10	20/12/2022
Cadmium	<0.0003	mg/m^3	0.2	26/07/2022
Mercury	<0.0002	mg/m^3	0.05	26/07/2022
Solid Particles	1.9	mg/m^3	50	26/07/2022
Type 1 and 2 substances in Aggregate	<0.02	mg/m^3	0.75	26/07/2022

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

Name	Reading	Units	Licence Limit	Date
Flow Rate	210	m3/sec		20/12/2022
Moisture	5.5	%		20/12/2022
Oxygen	9.3	%		20/12/2022
Solid Particles	3.1	mg/m3		20/12/2022
Temperature	118	degC		20/12/2022
Carbon dioxide	10.5	%		20/12/2022
Chlorine	0.014	mg/m3		20/12/2022
Fluorine	9.8	mg/m3		20/12/2022
Hydrogen chloride	13	mg/m3		20/12/2022
Sulfuric acid mist and sulfur trioxide (as SO3)	4.7	mg/m3		20/12/2022
Volatile organic compounds as n-propane equivalent	<0.01	mg/m3		20/12/2022
Cadmium	<0.0003	mg/m3		26/07/2022
Flow Rate	330	m3/sec		26/07/2022
Mercury	<0.0002	mg/m3		26/07/2022
Moisture	5.4	%		26/07/2022
Oxygen	9.0	%		26/07/2022
Solid Particles	1.8	mg/m3		26/07/2022
Temperature	113	degC		26/07/2022
Type 1 and Type 2 substances in Aggregate	<0.012	mg/m3		26/07/2022
Carbon dioxide	13.1	%		26/07/2022

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

Name	Reading	Units	Licence Limit	Date
Flow Rate	290	m3/sec		21/12/2022
Moisture	5.6	%		21/12/2022
Oxygen	9	%		21/12/2022
Solid Particles	13	mg/m3		21/12/2022
Temperature	120	degC		21/12/2022
Carbon dioxide	10.9	%		21/12/2022
Cadmium	0.00026	mg/m3		26/07/2022
Flow Rate	330	m3/sec		26/07/2022
Mercury	<0.0002	mg/m3		26/07/2022
Moisture	4.2	%		26/07/2022
Oxygen	8.8	%		26/07/2022
Solid Particles	1.9	mg/m3		26/07/2022
Temperature	113	degC		26/07/2022
Type 1 and Type 2 substances in Aggregate	<0.03	mg/m3		26/07/2022
Carbon dioxide	11.1	%		26/07/2022

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	<0.02	mg/m^3	20	23/11/2022
Fluorine	17	mg/m^3	30	23/11/2022
Hydrogen chloride	16	mg/m^3	50	23/11/2022
Solid Particles	6.9	mg/m^3	50	23/11/2022
Sulfuric acid mist and sulfur trioxide (as SO3)	1.9	mg/m^3	100	23/11/2022
Volatile organic compounds as n-propane equivalent	0.033	mg/m^3	10	23/11/2022
Cadmium	<0.0003	mg/m^3	0.2	27/07/2022
Mercury	0.0013	mg/m^3	0.05	27/07/2022
Solid Particles	11	mg/m^3	50	27/07/2022
Type 1 and 2 substances in Aggregate	<0.02	mg/m^3	0.75	27/07/2022

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

Name	Reading	Units	Licence Limit	Date
Flow Rate	230	m3/sec		23/11/2022
Moisture	5.1	%		23/11/2022
Oxygen	8.9	%		23/11/2022
Solid Particles	11	mg/m3		23/11/2022
Temperature	122	degC		23/11/2022
Carbon dioxide	10.8	%		23/11/2022
Chlorine	<0.02	mg/m3		23/11/2022
Fluorine	17	mg/m3		23/11/2022
Hydrogen chloride	16	mg/m3		23/11/2022
Sulfuric acid mist and sulfur trioxide (as SO3)	1.9	mg/m3		23/11/2022
Volatile organic compounds as n-propane equivalent	0.033	mg/m3		23/11/2022
Cadmium	<0.0003	mg/m3		27/07/2022
Flow Rate	260	m3/sec		27/07/2022
Mercury	0.0013	mg/m3		27/07/2022
Moisture	4.8	%		27/07/2022
Oxygen	9.8	%		27/07/2022
Solid Particles	14	mg/m3		27/07/2022
Temperature	120	degC		27/07/2022
Type 1 and Type 2 substances in Aggregate	<0.029	mg/m3		27/07/2022
Carbon dioxide	10.4	%		27/07/2022

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

Name	Reading	Units	Licence Limit	Date
Flow Rate	210	m3/sec		23/11/2022
Moisture	5.2	%		23/11/2022
Oxygen	9.3	%		23/11/2022
Solid Particles	2.5	mg/m3		23/11/2022
Temperature	107	degC		23/11/2022
Carbon dioxide	11.2	%		23/11/2022
Cadmium	<0.0002	mg/m3		27/07/2022
Flow Rate	250	m3/sec		27/07/2022
Mercury	0.0013	mg/m3		27/07/2022
Moisture	4.7	%		27/07/2022
Oxygen	10.2	%		27/07/2022
Solid Particles	8.7	mg/m3		27/07/2022
Temperature	110	degC		27/07/2022
Type 1 and Type 2 substances in Aggregate	<0.018	mg/m3		27/07/2022
Carbon dioxide	12.2	%		27/07/2022

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	<0.02	mg/m3	20	22/11/2022
Fluorine	15	mg/m3	30	22/11/2022
Hydrogen chloride	9.4	mg/m3	50	22/11/2022
Solid Particles	2	mg/m3	50	22/11/2022
Sulfuric acid mist and sulfur trioxide (as SO3)	1.7	mg/m3	100	22/11/2022
Volatile organic compounds as n-propane equivalent	<0.04	mg/m3	10	22/11/2022
Cadmium	<0.0003	mg/m3	0.2	28/07/2022
Mercury	0.00084	mg/m3	0.05	28/07/2022
Solid Particles	8.8	mg/m3	50	28/07/2022
Type 1 and 2 substances in Aggregate	<0.02	mg/m3	0.75	28/07/2022

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

Name	Reading	Units	Licence Limit	Date
Flow Rate	200	m3/sec		22/11/2022
Moisture	5.6	%		22/11/2022
Oxygen	8	%		22/11/2022
Solid Particles	1.6	mg/m3		22/11/2022
Temperature	110	degC		22/11/2022
Carbon dioxide	12.2	%		22/11/2022
Chlorine	<0.02	mg/m3		22/11/2022
Fluorine	15	mg/m3		22/11/2022
Hydrogen chloride	9.4	mg/m3		22/11/2022
Sulfuric acid mist and sulfur trioxide (as SO3)	1.7	mg/m3		22/11/2022
Volatile organic compounds as n-propane equivalent	<0.04	mg/m3		22/11/2022
Cadmium	<0.0003	mg/m3		28/07/2022
Flow Rate	240	m3/sec		28/07/2022
Mercury	0.0014	mg/m3		28/07/2022
Moisture	5.0	%		28/07/2022
Oxygen	8.8	%		28/07/2022
Solid Particles	15	mg/m3		28/07/2022
Temperature	116	degC		28/07/2022
Type 1 and Type 2 substances in Aggregate	<0.019	mg/m3		28/07/2022
Carbon dioxide	13.2	%		28/07/2022

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

Name	Reading	Units	Licence Limit	Date
Flow Rate	200	m3/sec		22/11/2022
Moisture	5.1	%		22/11/2022
Oxygen	8.6	%		22/11/2022
Solid Particles	2.4	mg/m3		22/11/2022
Temperature	126	degC		22/11/2022
Carbon dioxide	11	%		22/11/2022
Cadmium	<0.0004	mg/m3		28/07/2022
Flow Rate	210	m3/sec		28/07/2022
Mercury	0.00022	mg/m3		28/07/2022
Moisture	5.1	%		28/07/2022
Oxygen	9.2	%		28/07/2022
Solid Particles	2.1	mg/m3		28/07/2022
Temperature	112	degC		28/07/2022
Type 1 and Type 2 substances in Aggregate	<0.024	mg/m3		28/07/2022
Carbon dioxide	10.8	%		28/07/2022

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	<0.02	mg/m3	20	24/11/2022
Fluorine	14	mg/m3	30	24/11/2022
Hydrogen chloride	18	mg/m3	50	24/11/2022
Solid Particles	2.2	mg/m3	50	24/11/2022
Sulfuric acid mist and sulfur trioxide (as SO3)	2.9	mg/m3	100	24/11/2022
Volatile organic compounds as n-propane equivalent	<0.09	mg/m3	10	24/11/2022
Cadmium	<0.0003	mg/m3	0.2	29/07/2022
Mercury	0.0011	mg/m3	0.05	29/07/2022
Solid Particles	2.4	mg/m3	50	29/07/2022
Type 1 and 2 substances in Aggregate	<0.02	mg/m3	0.75	29/07/2022

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

Name	Reading	Units	Licence Limit	Date
Flow Rate	220	m^3/sec		24/11/2022
Moisture	5.3	%		24/11/2022
Oxygen	8.9	%		24/11/2022
Solid Particles	2.4	mg/m^3		24/11/2022
Temperature	111	degC		24/11/2022
Carbon dioxide	11.9	%		24/11/2022
Chlorine	<0.02	mg/m^3		24/11/2022
Fluorine	14	mg/m^3		24/11/2022
Hydrogen chloride	18	mg/m^3		24/11/2022
Sulfuric acid mist and sulfur trioxide (as SO3)	2.9	mg/m^3		24/11/2022
Volatile organic compounds as n-propane equivalent	<0.09	mg/m^3		24/11/2022
Cadmium	<0.0003	mg/m^3		29/07/2022
Flow Rate	240	m^3/sec		29/07/2022
Mercury	0.0011	mg/m^3		29/07/2022
Moisture	4.5	%		29/07/2022
Oxygen	10.8	%		29/07/2022
Solid Particles	1.5	mg/m^3		29/07/2022
Temperature	101	degC		29/07/2022
Type 1 and Type 2 substances in Aggregate	<0.026	mg/m^3		29/07/2022
Carbon dioxide	9.5	%		29/07/2022

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

Name	Reading	Units	Licence Limit	Date
Flow Rate	180	m^3/sec		24/11/2022
Moisture	5.2	%		24/11/2022
Oxygen	9.5	%		24/11/2022
Solid Particles	1.9	mg/m^3		24/11/2022
Temperature	107	degC		24/11/2022
Carbon dioxide	10.3	%		24/11/2022
Cadmium	<0.0002	mg/m^3		29/07/2022
Flow Rate	240	m^3/sec		29/07/2022
Mercury	0.0011	mg/m^3		29/07/2022
Moisture	5.3	%		29/07/2022
Oxygen	8.8	%		29/07/2022
Solid Particles	3.3	mg/m^3		29/07/2022
Temperature	109	degC		29/07/2022
Type 1 and Type 2 substances in Aggregate	<0.017	mg/m^3		29/07/2022
Carbon dioxide	13.3	%		29/07/2022

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	0.3	0.9	1.2
E4	18	1.1	0.3	1.4
E6	19	0.6	0.4	1.0
U6	20	0.3	0.1	0.4

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
18.0	0.50	16.6	8.03	13.3	53.5	5.19	2.25

Name	Reading	Units	Date
Aluminium	0.038	mg/L	2/02/2023
Ammonia	<0.005	mg/L	2/02/2023
Arsenic III	<0.004	mg/	2/02/2023
Arsenic V	<0.004	mg/L	2/02/2023
Cadmium	<0.0002	mg/L	2/02/2023
Chromium (Trivalent)	<0.001	mg/L	2/02/2023
Chromium (VI) Compounds	<0.001	mg/L	2/02/2023
Copper	0.002	mg/L	2/02/2023
Iron	0.059	mg/L	2/02/2023
Lead	<0.0002	mg/L	2/02/2023
Manganese	0.0072	mg/L	2/02/2023
Nickel	<0.0005	mg/L	2/02/2023
pH	8.11	pH units	2/02/2023
Selenium	<0.002	mg/L	2/02/2023
Total Suspended Solids	21	mg/L	2/02/2023
Vanadium	0.0025	mg/L	2/02/2023
Zinc	<0.005	mg/L	2/02/2023

Water Quality - Lake Monitoring LM12

EPA Identification no. 29 - The waters of Lake Macquarie located at the Eraring/Vales Point mixing zone off Fishery Point

Air Temp	Depth	Water Temp	pH	Salinity	Dissolved Oxygen		Secchi
^{0}C	m	degC	pH unit	ppt	%	mg/L	m
19.7	0.50	18.1	8.15	14.1	63.4	5.86	2.75

Name	Reading	Units	Date
Aluminium	0.031	mg/L	2/02/2023
Ammonia	<0.005	mg/L	2/02/2023
Arsenic III	<0.004	mg/L	2/02/2023
Arsenic V	<0.004	mg/L	2/02/2023
Cadmium	<0.0002	mg/L	2/02/2023
Chromium (Trivalent)	<0.001	mg/L	2/02/2023
Chromium (VI) Compounds	<0.001	mg/L	2/02/2023
Copper	0.002	mg/L	2/02/2023
Iron	0.033	mg/L	2/02/2023
Lead	<0.0002	mg/L	2/02/2023
Manganese	0.0079	mg/L	2/02/2023
Nickel	<0.0005	mg/L	2/02/2023
pH	8.13	pH units	2/02/2023
Selenium	<0.002	mg/L	2/02/2023
Total Suspended Solids	32	mg/L	2/02/2023
Vanadium	0.0030	mg/L	2/02/2023
Zinc	<0.005	mg/L	2/02/2023

Water Quality - Lake Monitoring LM4

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

Air Temp	Depth	Water Temp	pH	Salinity	Dissolved Oxygen		Secchi
^{0}C	m	degC	pH unit	ppt	%	mg/L	m
21.7	0.50	19.4	8.18	13.6	78.5	6.85	3.25

Name	Reading	Units	Date
Aluminium	0.021	mg/L	2/02/2023
Ammonia	<0.005	mg/L	2/02/2023
Arsenic III	<0.004	mg/L	2/02/2023
Arsenic V	<0.004	mg/L	2/02/2023
Cadmium	<0.0002	mg/L	2/02/2023
Chromium (Trivalent)	<0.001	mg/L	2/02/2023
Chromium (VI) Compounds	<0.001	mg/L	2/02/2023
Copper	<0.001	mg/L	2/02/2023
Iron	0.019	mg/L	2/02/2023
Lead	<0.0002	mg/L	2/02/2023
Manganese	0.0059	mg/L	2/02/2023
Nickel	<0.0005	mg/L	2/02/2023
pH	8.13	pH units	2/02/2023
Selenium	<0.002	mg/L	2/02/2023
Total Suspended Solids	22	mg/L	2/02/2023
Vanadium	0.0021	mg/L	2/02/2023
Zinc	<0.005	mg/L	2/02/2023

Water Quality - Lake Monitoring LM7

EPA Identification no. 28 - The waters of Lake Macquarie located off old Wangi power station inlet point in Myuna Bay

Air Temp	Depth	Water Temp	pH	Salinity	Dissolved Oxygen		Secchi
^{0}C	m	degC	pH unit	ppt	%	mg/L	m
17.1	0.5	-	8.14	14.1	76.3	6.37	2.25

Name	Reading	Units	Date
Aluminium	0.038	mg/L	2/02/2023
Ammonia	<0.005	mg/L	2/02/2023
Arsenic III	<0.004	mg/L	2/02/2023
Arsenic V	<0.004	mg/L	2/02/2023
Cadmium	<0.0002	mg/L	2/02/2023
Chromium (Trivalent)	<0.001	mg/L	2/02/2023
Chromium (VI) Compounds	<0.001	mg/L	2/02/2023
Copper	0.002	mg/L	2/02/2023
Iron	0.068	mg/L	2/02/2023
Lead	<0.0002	mg/L	2/02/2023
Manganese	0.0076	mg/L	2/02/2023
Nickel	<0.0005	mg/L	2/02/2023
pH	8.13	pH units	2/02/2023
Selenium	<0.002	mg/L	2/02/2023
Total Suspended Solids	28	mg/L	2/02/2023
Vanadium	0.0027	mg/L	2/02/2023
Zinc	0.013	mg/L	2/02/2023

Eraring Ash Dam Effluent Quality Monitoring

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

Name	Reading	Units	Licence Limit	Date
Aluminium	0.063	mg/L	-	2/02/2023
Ammonia	1.41	mg/L	-	2/02/2023
Arsenic III	0.0006	mg/L	-	2/02/2023
Arsenic V	0.0076	mg/L	-	2/02/2023
Cadmium	0.00013	mg/L	-	2/02/2023
Chromium (Trivalent)	<0.001	mg/L	-	2/02/2023
Chromium (VI) Compounds	<0.01	mg/L	-	2/02/2023
Copper	0.0059	mg/L	-	2/02/2023
Iron	0.043	mg/L	-	2/02/2023
Lead	<0.0001	mg/L	-	2/02/2023
Manganese	0.0374	mg/L	-	2/02/2023
Nickel	0.0030	mg/L	-	2/02/2023
Nitrite and Nitrate as N	3.30	mg/L	-	2/02/2023
Nitrogen	6.2	mg/L	-	2/02/2023
pH	8.28	pH units	-	2/02/2023
Phosphorus as P	0.94	mg/L	-	2/02/2023
Reactive Phosphorus as P	0.82	mg/L	-	2/02/2023
Selenium	0.0162	mg/L	-	2/02/2023
Total Kjeldahl Nitrogen	2.9	mg/L	-	2/02/2023
Total Suspended Solids	8	mg/L	-	2/02/2023
Vanadium	0.0270	mg/L	-	2/02/2023
Zinc	0.010	mg/L	-	2/02/2023

Eraring Cooling Water Inlet Canal

EPA Identification no. 31 - Inlet canal of the cooling water intake from Lake Macquarie

Name	Reading	Units	Licence Limit	Date
Aluminium	0.118	mg/L	-	2/02/2023
Ammonia	<0.005	mg/L	-	2/02/2023
Arsenic III	<0.004	mg/L	-	2/02/2023
Arsenic V	<0.004	mg/L	-	2/02/2023
Cadmium	<0.0002	mg/L	-	2/02/2023
Chromium (Trivalent)	<0.001	mg/L	-	2/02/2023
Chromium (VI) Compounds	<0.01	mg/L	-	2/02/2023
Copper	0.0017	mg/L	-	2/02/2023
Iron	0.168	mg/L	-	2/02/2023
Lead	<0.0002	mg/L	-	2/02/2023
Manganese	0.0083	mg/L	-	2/02/2023
Nickel	<0.0005	mg/L	-	2/02/2023
pH	8.07	pH units	-	2/02/2023
Selenium	<0.001	mg/L	-	2/02/2023
Total Suspended Solids	17	mg/L	-	2/02/2023
Vanadium	0.0031	mg/L	-	2/02/2023
Zinc	<0.005	mg/L	-	2/02/2023
Dissolved Oxygen	4.98	mg/L	-	2/02/2023
Field Temperature	28.0	degC	-	2/02/2023
Salinity	33.6	ppt	-	2/02/2023
Secchi Disk	2.25	m	-	2/02/2023
Temperature – Average	27.35	deg C	-	February 2023
Temperature – Minimum	25.90	deg C	-	February 2023
Temperature - Maximum	29.48	deg C	-	February 2023

Eraring Cooling Water Outlet Canal

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

Name	Reading	Units	Licence Limit	Date
Copper	0.0021	mg/L	0.005	2/02/2023
Iron	0.088	mg/L	0.3	2/02/2023
Selenium	<0.001	mg/L	0.002	2/02/2023
Temperature – Average	32.03	deg C	37.5	February 2023
Temperature – Minimum	28.50	deg C	37.5	February 2023
Temperature - Maximum	36.12	deg C	37.5	February 2023
Maximum Daily Discharge from Ash Dam	32.17	ML	150	February 2023
Monthly Discharge from Ash Dam	196.05	ML	-	February 2023

Emergency Discharge – Toe Drain Pond

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

Name	Reading	Units	Licence Limit	Date
Aluminium	0.008	mg/L	-	2/02/2023
Ammonia	2.93	mg/L	-	2/02/2023
Arsenic III	0.0073	mg/L	-	2/02/2023
Arsenic V	0.0011	mg/L	-	2/02/2023
Cadmium	<0.00005	mg/L	-	2/02/2023
Chromium (Trivalent)	<0.001	mg/L	-	2/02/2023
Chromium (VI) Compounds	<0.01	mg/L	-	2/02/2023
Copper	<0.0005	mg/L	-	2/02/2023
Iron	4.38	mg/L	-	2/02/2023
Lead	<0.0001	mg/L	-	2/02/2023
Manganese	0.810	mg/L	-	2/02/2023
Nickel	0.0014	mg/L	-	2/02/2023
Nitrite and Nitrate as N	0.078	mg/L	-	2/02/2023
Nitrogen	3.32	mg/L	-	2/02/2023
pH	6.80	pH units	6-9.5	2/02/2023
Phosphorus as P	0.254	mg/L	-	2/02/2023
Reactive Phosphorus as P	0.026	mg/L	-	2/02/2023
Selenium	0.0003	mg/L	-	2/02/2023
Total Kjeldahl Nitrogen	3.24	mg/L	-	2/02/2023
Total Suspended Solids	18	mg/L	50	2/02/2023
Vanadium	0.0006	mg/L	-	2/02/2023
Zinc	0.007	mg/L	-	2/02/2023

MR217

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

MR217 did not discharge throughout February 2023

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	0.168	mg/L	15/12/2022
Ammonia	0.02	mg/L	15/12/2022
Arsenic (III)	<0.0005	mg/L	15/12/2022
Arsenic (V)	<0.0005	mg/L	15/12/2022
Cadmium	<0.00005	mg/L	15/12/2022
Calcium	2	mg/L	15/12/2022
Chromium (trivalent)	<0.01	mg/L	15/12/2022
Chromium (VI) compounds	<0.01	mg/L	15/12/2022
Copper	0.0010	mg/L	15/12/2022
Electrical Conductivity	433	uS/cm	15/12/2022
Iron	0.308	mg/L	15/12/2022
Lead	0.0009	mg/L	15/12/2022
Magnesium	5	mg/L	15/12/2022
Manganese	0.136	mg/L	15/12/2022
Nickel	0.0053	mg/L	15/12/2022
pH	4.84	pH units	15/12/2022
Potassium	4	mg/L	15/12/2022
Selenium	<0.0002	mg/L	15/12/2022
Sodium	68	mg/L	15/12/2022
Standing Water Level	8.115	metres	15/12/2022
Vanadium	0.0003	mg/L	15/12/2022
Zinc	0.024	mg/L	15/12/2022

Groundwater Monitoring
Groundwater Well – MW02

EPA Identification no. 33 – Groundwater Monitoring Well 02

Name	Reading	Units	Date
Aluminium	1.02	mg/L	14/12/2022
Ammonia	1.09	mg/L	14/12/2022
Arsenic (III)	<0.001	mg/L	14/12/2022
Arsenic (V)	<0.001	mg/L	14/12/2022
Cadmium	<0.0002	mg/L	14/12/2022
Calcium	306	mg/L	14/12/2022
Chromium (trivalent)	<0.001	mg/L	14/12/2022
Chromium (VI) compounds	<0.001	mg/L	14/12/2022
Copper	<0.001	mg/L	14/12/2022
Electrical Conductivity	34300	uS/cm	14/12/2022
Iron	59.2	mg/L	14/12/2022
Lead	0.0016	mg/L	14/12/2022
Magnesium	639	mg/L	14/12/2022
Manganese	0.640	mg/L	14/12/2022
Nickel	<0.0005	mg/L	14/12/2022
pH	6.82	pH units	14/12/2022
Potassium	227	mg/L	14/12/2022
Selenium	<0.002	mg/L	14/12/2022
Sodium	6590	mg/L	14/12/2022
Standing Water Level	4.025	metres	14/12/2022
Vanadium	0.0032	mg/L	14/12/2022
Zinc	0.013	mg/L	14/12/2022

Groundwater Monitoring
Groundwater Well – MW06

EPA Identification no. 34 – Groundwater Monitoring Well 06

Name	Reading	Units	Date
Aluminium	0.116	mg/L	14/12/2022
Ammonia	3.35	mg/L	14/12/2022
Arsenic (III)	<0.0005	mg/L	14/12/2022
Arsenic (V)	0.0006	mg/L	14/12/2022
Cadmium	<0.0002	mg/L	14/12/2022
Calcium	442	mg/L	14/12/2022
Chromium (trivalent)	<0.001	mg/L	14/12/2022
Chromium (VI) compounds	<0.001	mg/L	14/12/2022
Copper	<0.001	mg/L	14/12/2022
Electrical Conductivity	20400	uS/cm	14/12/2022
Iron	13.9	mg/L	14/12/2022
Lead	0.0005	mg/L	14/12/2022
Magnesium	251	mg/L	14/12/2022
Manganese	0.409	mg/L	14/12/2022
Nickel	0.0018	mg/L	14/12/2022
pH	6.63	pH units	14/12/2022
Potassium	113	mg/L	14/12/2022
Selenium	<0.002	mg/L	14/12/2022
Sodium	3370	mg/L	14/12/2022
Standing Water Level	1.940	metres	14/12/2022
Vanadium	0.0011	mg/L	14/12/2022
Zinc	0.045	mg/L	14/12/2022

Groundwater Monitoring
Groundwater Well – EGM/D26

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