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

Environmental Monitoring Data October 2022



Unit 1A Boiler Continuous Emission Monitoring Summary

EPA Identification no.7 - Air emissions monitoring, Boiler 1 stack discharge to air
Unit 1A Unit Offline 1-31 October 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 October	-	-	-	-	-	-
2 October	-	-	-	-	-	-
3 October	-	-	-	-	-	-
4 October	-	-	-	-	-	-
5 October	-	-	-	-	-	-
6 October	-	-	-	-	-	-
7 October	-	-	-	-	-	-
8 October	-	-	-	-	-	-
9 October	-	-	-	-	-	-
10 October	-	-	-	-	-	-
11 October	-	-	-	-	-	-
12 October	-	-	-	-	-	-
13 October	-	-	-	-	-	-
14 October	-	-	-	-	-	-
15 October	-	-	-	-	-	-
16 October	-	-	-	-	-	-
17 October	-	-	-	-	-	-
18 October	-	-	-	-	-	-
19 October	-	-	-	-	-	-
20 October	-	-	-	-	-	-
21 October	-	-	-	-	-	-
22 October	-	-	-	-	-	-
23 October	-	-	-	-	-	-
24 October	-	-	-	-	-	-
25 October	-	-	-	-	-	-
26 October	-	-	-	-	-	-
27 October	-	-	-	-	-	-
28 October	-	-	-	-	-	-
29 October	-	-	-	-	-	-
30 October	-	-	-	-	-	-
31 October	-	-	-	-	-	-

Unit 1B Boiler Continuous Emission Monitoring Summary

EPA Identification no.7 - Air emissions monitoring, Boiler 1 stack discharge to air
Unit 1B Unit Offline 1-31 October 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 October	-	-	-	-	-	-
2 October	-	-	-	-	-	-
3 October	-	-	-	-	-	-
4 October	-	-	-	-	-	-
5 October	-	-	-	-	-	-
6 October	-	-	-	-	-	-
7 October	-	-	-	-	-	-
8 October	-	-	-	-	-	-
9 October	-	-	-	-	-	-
10 October	-	-	-	-	-	-
11 October	-	-	-	-	-	-
12 October	-	-	-	-	-	-
13 October	-	-	-	-	-	-
14 October	-	-	-	-	-	-
15 October	-	-	-	-	-	-
16 October	-	-	-	-	-	-
17 October	-	-	-	-	-	-
18 October	-	-	-	-	-	-
19 October	-	-	-	-	-	-
20 October	-	-	-	-	-	-
21 October	-	-	-	-	-	-
22 October	-	-	-	-	-	-
23 October	-	-	-	-	-	-
24 October	-	-	-	-	-	-
25 October	-	-	-	-	-	-
26 October	-	-	-	-	-	-
27 October	-	-	-	-	-	-
28 October	-	-	-	-	-	-
29 October	-	-	-	-	-	-
30 October	-	-	-	-	-	-
31 October	-	-	-	-	-	-

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 17, 20 and 28-30 October 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 October	282	308	227	632	683	573
2 October	284	311	244	564	632	495
3 October	277	307	233	628	748	548
4 October	282	309	251	644	705	565
5 October	293	341	239	621	665	538
6 October	290	334	234	557	639	500
7 October	322	397	274	656	702	593
8 October	311	422	226	686	718	642
9 October	339	386	285	701	769	637
10 October	315	365	260	714	797	658
11 October	277	313	219	579	737	482
12 October	269	291	238	669	730	618
13 October	271	308	237	699	747	649
14 October	264	307	218	694	749	601
15 October	275	315	230	727	804	621
16 October	283	314	239	713	767	640
17 October	-	-	-	-	-	-
18 October	304	362	240	606	682	550
19 October	330	385	289	636	681	570
20 October	-	-	-	-	-	-
21 October	351	392	313	698	784	645
22 October	348	374	325	674	716	616
23 October	404	499	321	732	790	652
24 October	349	744	236	705	778	646
25 October	336	358	299	729	798	618
26 October	296	364	246	639	755	565
27 October	267	296	236	685	806	633
28 October	-	-	-	-	-	-
29 October	-	-	-	-	-	-
30 October	-	-	-	-	-	-
31 October	413	413	413	676	730	646

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 9-10, 17, 20 and 29-30 October 2022
NOx Unit Out of Service 8 and 28 October 2022
SO_2 Unit Out of Service 31 October 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 October	211	260	167	487	645	367
2 October	210	253	170	433	552	325
3 October	210	264	165	499	678	366
4 October	219	274	185	516	700	367
5 October	204	270	176	427	611	359
6 October	202	243	181	388	546	311
7 October	207	245	178	435	592	364
8 October	-	-	-	456	616	296
9 October	-	-	-	-	-	-
10 October	-	-	-	-	-	-
11 October	208	254	181	420	647	313
12 October	210	248	179	493	609	381
13 October	206	330	176	492	616	377
14 October	216	282	168	558	715	396
15 October	217	264	173	585	754	386
16 October	220	257	177	580	730	377
17 October	-	-	-	-	-	-
18 October	209	278	176	434	560	320
19 October	238	285	187	464	587	324
20 October	-	-	-	-	-	-
21 October	228	278	171	439	621	318
22 October	291	355	215	567	675	401
23 October	343	520	226	619	748	453
24 October	255	758	164	501	720	340
25 October	207	256	168	480	556	383
26 October	221	271	181	501	632	381
27 October	229	284	189	597	764	456
28 October	-	-	-	703	934	438
29 October	-	-	-	-	-	-
30 October	-	-	-	-	-	-
31 October	333	365	287	-	-	-

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 24-31 October 2022
NOx Unit Out of Service 1-6, 8-9 and 14-17 October 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 October	-	-	-	720	775	687
2 October	-	-	-	643	704	595
3 October	-	-	-	717	792	616
4 October	-	-	-	725	778	692
5 October	-	-	-	677	741	654
6 October	-	-	-	608	685	566
7 October	360	407	291	729	760	692
8 October	-	-	-	736	765	708
9 October	-	-	-	786	845	722
10 October	411	472	338	802	850	764
11 October	393	519	318	645	797	561
12 October	369	452	292	739	777	685
13 October	344	414	265	775	797	747
14 October	-	-	-	767	797	730
15 October	-	-	-	816	885	727
16 October	-	-	-	792	844	761
17 October	-	-	-	768	817	727
18 October	406	481	329	659	736	617
19 October	399	468	323	707	753	665
20 October	371	452	272	765	805	724
21 October	428	499	346	770	830	726
22 October	406	489	322	728	760	697
23 October	387	535	299	837	972	712
24 October	-	-	-	-	-	-
25 October	-	-	-	-	-	-
26 October	-	-	-	-	-	-
27 October	-	-	-	-	-	-
28 October	-	-	-	-	-	-
29 October	-	-	-	-	-	-
30 October	-	-	-	-	-	-
31 October	-	-	-	-	-	-

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 4 and 30 October 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 October	307	377	249	664	728	625
2 October	299	371	252	592	642	542
3 October	300	364	233	661	748	569
4 October	-	-	-	-	-	-
5 October	330	381	264	614	669	593
6 October	318	374	249	560	626	519
7 October	345	394	297	665	698	628
8 October	291	332	227	626	713	504
9 October	266	301	214	525	584	482
10 October	310	398	224	618	765	487
11 October	333	447	271	583	732	508
12 October	318	389	247	680	723	625
13 October	317	400	229	717	740	687
14 October	325	416	273	718	753	668
15 October	331	416	255	767	850	684
16 October	334	412	241	750	810	707
17 October	332	416	269	718	775	669
18 October	350	418	280	602	682	556
19 October	361	446	279	650	685	625
20 October	331	425	241	698	725	664
21 October	378	460	286	705	760	663
22 October	371	404	332	679	725	631
23 October	352	454	258	785	911	683
24 October	353	496	278	735	824	663
25 October	373	451	306	767	865	679
26 October	324	446	238	672	776	610
27 October	294	371	220	786	898	663
28 October	290	372	237	809	896	760
29 October	280	384	225	892	958	818
30 October	-	-	-	-	-	-
31 October	311	436	237	720	747	672

Unit 4A Boiler Continuous Emission Monitoring Summary

EPA Identification no. 13 - Air emissions monitoring, Boiler 4 stack discharge to air
Unit 4A Offline 1-9 October 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 October	-	-	-	-	-	-
2 October	-	-	-	-	-	-
3 October	-	-	-	-	-	-
4 October	-	-	-	-	-	-
5 October	-	-	-	-	-	-
6 October	-	-	-	-	-	-
7 October	-	-	-	-	-	-
8 October	-	-	-	-	-	-
9 October	-	-	-	-	-	-
10 October	386	433	342	661	715	624
11 October	402	459	335	589	687	511
12 October	382	424	326	656	698	573
13 October	384	439	319	690	725	630
14 October	392	436	288	678	709	640
15 October	387	452	327	699	744	650
16 October	388	437	330	685	720	636
17 October	345	402	286	660	689	610
18 October	305	358	257	591	659	530
19 October	353	385	322	610	639	573
20 October	308	365	253	655	730	584
21 October	330	362	293	688	789	628
22 October	322	355	293	656	693	615
23 October	328	372	284	738	799	664
24 October	355	406	281	732	789	682
25 October	378	418	343	729	819	608
26 October	339	408	300	673	793	611
27 October	316	369	275	707	755	655
28 October	340	364	283	814	941	715
29 October	311	368	274	917	980	840
30 October	314	375	284	738	814	685
31 October	337	405	294	710	753	669

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 1-9 October 2022
SO_2 Unit Out of Service 25-26 October 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 October	-	-	-	-	-	-
2 October	-	-	-	-	-	-
3 October	-	-	-	-	-	-
4 October	-	-	-	-	-	-
5 October	-	-	-	-	-	-
6 October	-	-	-	-	-	-
7 October	-	-	-	-	-	-
8 October	-	-	-	-	-	-
9 October	-	-	-	-	-	-
10 October	404	473	277	640	735	408
11 October	465	581	327	620	727	524
12 October	432	508	337	684	745	459
13 October	445	560	349	761	809	615
14 October	443	520	298	734	762	532
15 October	440	543	292	761	820	609
16 October	449	540	317	744	789	576
17 October	383	503	304	711	757	609
18 October	335	428	261	639	719	516
19 October	429	513	364	661	703	507
20 October	344	401	269	706	778	581
21 October	411	527	320	756	878	650
22 October	349	415	300	681	735	552
23 October	362	485	293	767	845	608
24 October	429	507	285	757	848	662
25 October	450	538	346	-	-	-
26 October	384	513	292	-	-	-
27 October	323	419	247	696	757	495
28 October	351	431	273	801	960	613
29 October	324	473	238	905	975	759
30 October	334	450	226	730	874	581
31 October	364	474	260	712	754	586

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	20/04/2022
Fluorine	8.6	mg/m^3	30	20/04/2022
Hydrogen chloride	2.8	mg/m^3	50	20/04/2022
Solid Particles	3.5	mg/m^3	50	20/04/2022
Sulfuric acid mist and sulfur trioxide (as SO3)	1.7	mg/m^3	100	20/04/2022
Volatile organic compounds as n-propane equivalent	<0.05	mg/m^3	10	20/04/2022
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	220	m3/sec		20/04/2022
Moisture	5.6	%		20/04/2022
Oxygen	9.8	%		20/04/2022
Solid Particles	4.5	mg/m3		20/04/2022
Temperature	116	degC		20/04/2022
Carbon dioxide	10.3	%		20/04/2022
Chlorine	<0.01	mg/m3		20/04/2022
Fluorine	8.6	mg/m3		20/04/2022
Hydrogen chloride	2.8	mg/m3		20/04/2022
Sulfuric acid mist and sulfur trioxide (as SO3)	1.7	mg/m3		20/04/2022
Volatile organic compounds as n-propane equivalent	<0.05	mg/m3		20/04/2022
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	270	m3/sec		20/04/2022
Moisture	4.1	%		20/04/2022
Oxygen	9.4	%		20/04/2022
Solid Particles	2.7	mg/m3		20/04/2022
Temperature	115	degC		20/04/2022
Carbon dioxide	11.2	%		20/04/2022
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	<0.008	mg/m^3	20	21/04/2022
Fluorine	11	mg/m^3	30	21/04/2022
Hydrogen chloride	3.1	mg/m^3	50	21/04/2022
Solid Particles	11	mg/m^3	50	21/04/2022
Sulfuric acid mist and sulfur trioxide (as SO3)	2.5	mg/m^3	100	21/04/2022
Volatile organic compounds as n-propane equivalent	<0.06	mg/m^3	10	21/04/2022
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	240	m3/sec		21/04/2022
Moisture	5.5	%		21/04/2022
Oxygen	8.9	%		21/04/2022
Solid Particles	9.7	mg/m3		21/04/2022
Temperature	125	degC		21/04/2022
Carbon dioxide	11.1	%		21/04/2022
Chlorine	<0.008	mg/m3		21/04/2022
Fluorine	11	mg/m3		21/04/2022
Hydrogen chloride	3.1	mg/m3		21/04/2022
Sulfuric acid mist and sulfur trioxide (as SO3)	2.5	mg/m3		21/04/2022
Volatile organic compounds as n-propane equivalent	<0.06	mg/m3		21/04/2022
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	250	m3/sec		21/04/2022
Moisture	4.1	%		21/04/2022
Oxygen	10.6	%		21/04/2022
Solid Particles	12	mg/m3		21/04/2022
Temperature	107	degC		21/04/2022
Carbon dioxide	9.7	%		21/04/2022
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	<0.01	mg/m3	20	22/04/2022
Fluorine	10	mg/m3	30	22/04/2022
Hydrogen chloride	4.8	mg/m3	50	22/04/2022
Solid Particles	7.2	mg/m3	50	22/04/2022
Sulfuric acid mist and sulfur trioxide (as SO3)	2.5	mg/m3	100	22/04/2022
Volatile organic compounds as n-propane equivalent	0.45	mg/m3	10	22/04/2022
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	250	m3/sec		22/04/2022
Moisture	5.6	%		22/04/2022
Oxygen	9.3	%		22/04/2022
Solid Particles	7.8	mg/m3		22/04/2022
Temperature	109	degC		22/04/2022
Carbon dioxide	10.6	%		22/04/2022
Chlorine	<0.01	mg/m3		22/04/2022
Fluorine	10	mg/m3		22/04/2022
Hydrogen chloride	4.8	mg/m3		22/04/2022
Sulfuric acid mist and sulfur trioxide (as SO3)	2.5	mg/m3		22/04/2022
Volatile organic compounds as n-propane equivalent	0.45	mg/m3		22/04/2022
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	230	m3/sec		22/04/2022
Moisture	4.9	%		22/04/2022
Oxygen	8.3	%		22/04/2022
Solid Particles	6.6	mg/m3		22/04/2022
Temperature	115	degC		22/04/2022
Carbon dioxide	11.6	%		22/04/2022
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	0.01	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	<0.0003	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	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	<0.0003	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	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		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	0.2	0.4	0.6
E4	18	0.3	0.2	0.5
E6	19	7.0	3.9	10.9
U6	20	0.8	0.3	1.1

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
17.80	0.50	19.15	8.11	17.6	95.7	7.74	1.75

Name	Reading	Units	Date
Aluminium	0.048	mg/L	4/10/2022
Ammonia	<0.005	mg/L	4/10/2022
Arsenic III	<0.004	mg/	4/10/2022
Arsenic V	<0.004	mg/L	4/10/2022
Cadmium	<0.0002	mg/L	4/10/2022
Chromium (Trivalent)	<0.001	mg/L	4/10/2022
Chromium (VI) Compounds	<0.001	mg/L	4/10/2022
Copper	0.001	mg/L	4/10/2022
Iron	0.046	mg/L	4/10/2022
Lead	<0.0002	mg/L	4/10/2022
Manganese	0.0054	mg/L	4/10/2022
Nickel	<0.0005	mg/L	4/10/2022
pH	8.10	pH units	4/10/2022
Selenium	<0.002	mg/L	4/10/2022
Total Suspended Solids	28	mg/L	4/10/2022
Vanadium	0.0018	mg/L	4/10/2022
Zinc	<0.005	mg/L	4/10/2022

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
17.42	0.50	20.12	8.07	17.7	113.4	8.91	3.25

Name	Reading	Units	Date
Aluminium	0.032	mg/L	4/10/2022
Ammonia	<0.005	mg/L	4/10/2022
Arsenic III	<0.004	mg/L	4/10/2022
Arsenic V	<0.004	mg/L	4/10/2022
Cadmium	<0.0002	mg/L	4/10/2022
Chromium (Trivalent)	<0.001	mg/L	4/10/2022
Chromium (VI) Compounds	<0.001	mg/L	4/10/2022
Copper	0.002	mg/L	4/10/2022
Iron	0.021	mg/L	4/10/2022
Lead	<0.0002	mg/L	4/10/2022
Manganese	0.0062	mg/L	4/10/2022
Nickel	<0.0005	mg/L	4/10/2022
pH	8.08	pH units	4/10/2022
Selenium	<0.002	mg/L	4/10/2022
Total Suspended Solids	26	mg/L	4/10/2022
Vanadium	0.0022	mg/L	4/10/2022
Zinc	<0.005	mg/L	4/10/2022

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
13.19	0.50	17.73	8.21	18.0	115.6	9.62	4.25

Name	Reading	Units	Date
Aluminium	0.009	mg/L	4/10/2022
Ammonia	<0.005	mg/L	4/10/2022
Arsenic III	<0.004	mg/L	4/10/2022
Arsenic V	<0.004	mg/L	4/10/2022
Cadmium	<0.0002	mg/L	4/10/2022
Chromium (Trivalent)	<0.001	mg/L	4/10/2022
Chromium (VI) Compounds	<0.001	mg/L	4/10/2022
Copper	<0.001	mg/L	4/10/2022
Iron	<0.005	mg/L	4/10/2022
Lead	<0.0002	mg/L	4/10/2022
Manganese	0.0027	mg/L	4/10/2022
Nickel	<0.0005	mg/L	4/10/2022
pH	8.12	pH units	4/10/2022
Selenium	<0.002	mg/L	4/10/2022
Total Suspended Solids	17	mg/L	4/10/2022
Vanadium	0.0015	mg/L	4/10/2022
Zinc	<0.005	mg/L	4/10/2022

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
16.51	0.5	20.36	8.04	17.6	112.8*	8.99	4.25

Name	Reading	Units	Date
Aluminium	0.033	mg/L	4/10/2022
Ammonia	<0.005	mg/L	4/10/2022
Arsenic III	<0.004	mg/L	4/10/2022
Arsenic V	<0.004	mg/L	4/10/2022
Cadmium	<0.0002	mg/L	4/10/2022
Chromium (Trivalent)	<0.001	mg/L	4/10/2022
Chromium (VI) Compounds	<0.001	mg/L	4/10/2022
Copper	<0.001	mg/L	4/10/2022
Iron	0.030	mg/L	4/10/2022
Lead	<0.0002	mg/L	4/10/2022
Manganese	0.0064	mg/L	4/10/2022
Nickel	<0.0005	mg/L	4/10/2022
pH	8.09	pH units	4/10/2022
Selenium	<0.002	mg/L	4/10/2022
Total Suspended Solids	18	mg/L	4/10/2022
Vanadium	0.0018	mg/L	4/10/2022
Zinc	<0.005	mg/L	4/10/2022

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	0.570	mg/L	-	6/10/2022
Ammonia	1.12	mg/L	-	6/10/2022
Arsenic III	<0.0005	mg/L	-	6/10/2022
Arsenic V	0.0071	mg/L	-	6/10/2022
Cadmium	0.00007	mg/L	-	6/10/2022
Chromium (Trivalent)	<0.001	mg/L	-	6/10/2022
Chromium (VI) Compounds	<0.01	mg/L	-	6/10/2022
Copper	0.0017	mg/L	-	6/10/2022
Iron	0.195	mg/L	-	6/10/2022
Lead	0.0004	mg/L	-	6/10/2022
Manganese	0.0921	mg/L	-	6/10/2022
Nickel	0.0021	mg/L	-	6/10/2022
Nitrite and Nitrate as N	2.31	mg/L	-	6/10/2022
Nitrogen	3.9	mg/L	-	6/10/2022
pH	8.21	pH units	-	6/10/2022
Phosphorus as P	0.58	mg/L	-	6/10/2022
Reactive Phosphorus as P	0.51	mg/L	-	6/10/2022
Selenium	0.0202	mg/L	-	6/10/2022
Total Kjeldahl Nitrogen	1.6	mg/L	-	6/10/2022
Total Suspended Solids	29	mg/L	-	6/10/2022
Vanadium	0.0396	mg/L	-	6/10/2022
Zinc	0.002	mg/L	-	6/10/2022

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	0.080	mg/L	-	6/10/2022
Ammonia	0.006	mg/L	-	6/10/2022
Arsenic III	<0.004	mg/L	-	6/10/2022
Arsenic V	<0.004	mg/L	-	6/10/2022
Cadmium	<0.0002	mg/L	-	6/10/2022
Chromium (Trivalent)	<0.001	mg/L	-	6/10/2022
Chromium (VI) Compounds	<0.01	mg/L	-	6/10/2022
Copper	0.0014	mg/L	-	6/10/2022
Iron	0.095	mg/L	-	6/10/2022
Lead	<0.0002	mg/L	-	6/10/2022
Manganese	0.0080	mg/L	-	6/10/2022
Nickel	<0.0005	mg/L	-	6/10/2022
pH	7.96	pH units	-	6/10/2022
Selenium	<0.001	mg/L	-	6/10/2022
Total suspended Solids	36	mg/L	-	6/10/2022
Vanadium	0.0019	mg/L	-	6/10/2022
Zinc	<0.005	mg/L	-	6/10/2022
Dissolved Oxygen	8.89	mg/L	-	6/10/2022
Field Temperature	19.1	degC	-	6/10/2022
Salinity	17.2	ppt	-	6/10/2022
Secchi Disk	2.50	m	-	6/10/2022
Temperature – Average	20.71	deg C	-	October 2022
Temperature – Minimum	17.95	deg C	-	October 2022
Temperature - Maximum	23.46	deg C	-	October 2022

Eraring Cooling Water Outlet Canal

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

Name	Reading	Units	Licence Limit	Date
Copper	0.0025	mg/L	0.005	6/10/2022
Iron	**0.938**	mg/L	0.3	6/10/2022
Selenium	<0.001	mg/L	0.002	6/10/2022
Temperature – Average	27.12	deg C	37.5	October 2022
Temperature – Minimum	20.51	deg C	37.5	October 2022
Temperature - Maximum	33.81	deg C	37.5	October 2022
Maximum Daily Discharge from Ash Dam	20.82	ML	150	October 2022
Monthly Discharge from Ash Dam	260.00	ML	-	October 2022

Emergency Discharge – Toe Drain Pond

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

Name	Reading	Units	Licence Limit	Date
Aluminium	0.042	mg/L	-	6/10/2022
Ammonia	1.64	mg/L	-	6/10/2022
Arsenic III	0.0019	mg/L	-	6/10/2022
Arsenic V	0.0007	mg/L	-	6/10/2022
Cadmium	<0.00005	mg/L	-	6/10/2022
Chromium (Trivalent)	<0.001	mg/L	-	6/10/2022
Chromium (VI) Compounds	<0.01	mg/L	-	6/10/2022
Copper	<0.0005	mg/L	-	6/10/2022
Iron	6.24	mg/L	-	6/10/2022
Lead	<0.0001	mg/L	-	6/10/2022
Manganese	0.922	mg/L	-	6/10/2022
Nickel	0.0013	mg/L	-	6/10/2022
Nitrite and Nitrate as N	0.128	mg/L	-	6/10/2022
Nitrogen	1.71	mg/L	-	6/10/2022
pH	6.67	pH units	6-9.5	6/10/2022
Phosphorus as P	0.097	mg/L	-	6/10/2022
Reactive Phosphorus as P	0.048	mg/L	-	6/10/2022
Selenium	0.0002	mg/L	-	6/10/2022
Total Kjeldahl Nitrogen	1.58	mg/L	-	6/10/2022
Total Suspended Solids	28	mg/L	50	6/10/2022
Vanadium	0.0007	mg/L	-	6/10/2022
Zinc	<0.001	mg/L	-	6/10/2022

MR217

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

MR217 did not discharge throughout October 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	0.463	mg/L	13/09/2022
Ammonia	0.02	mg/L	13/09/2022
Arsenic (III)	<0.0005	mg/L	13/09/2022
Arsenic (V)	<0.0005	mg/L	13/09/2022
Cadmium	<0.00005	mg/L	13/09/2022
Calcium	2	mg/L	13/09/2022
Chromium (trivalent)	<0.01	mg/L	13/09/2022
Chromium (VI) compounds	<0.01	mg/L	13/09/2022
Copper	0.0010	mg/L	13/09/2022
Electrical Conductivity	420	uS/cm	13/09/2022
Iron	0.608	mg/L	13/09/2022
Lead	0.0012	mg/L	13/09/2022
Magnesium	5	mg/L	13/09/2022
Manganese	0.143	mg/L	13/09/2022
Nickel	0.0047	mg/L	13/09/2022
pH	4.94	pH units	13/09/2022
Potassium	4	mg/L	13/09/2022
Selenium	<0.0002	mg/L	13/09/2022
Sodium	66	mg/L	13/09/2022
Standing Water Level	7.025	metres	13/09/2022
Vanadium	0.0009	mg/L	13/09/2022
Zinc	0.025	mg/L	13/09/2022

Groundwater Monitoring
Groundwater Well – MW02

EPA Identification no. 33 – Groundwater Monitoring Well 02

Name	Reading	Units	Date
Aluminium	1.21	mg/L	13/09/2022
Ammonia	5.83	mg/L	13/09/2022
Arsenic (III)	<0.004	mg/L	13/09/2022
Arsenic (V)	<0.004	mg/L	13/09/2022
Cadmium	<0.0002	mg/L	13/09/2022
Calcium	312	mg/L	13/09/2022
Chromium (trivalent)	<0.01	mg/L	13/09/2022
Chromium (VI) compounds	<0.01	mg/L	13/09/2022
Copper	0.004	mg/L	13/09/2022
Electrical Conductivity	26500	uS/cm	13/09/2022
Iron	36.4	mg/L	13/09/2022
Lead	0.0033	mg/L	13/09/2022
Magnesium	471	mg/L	13/09/2022
Manganese	0.725	mg/L	13/09/2022
Nickel	0.0008	mg/L	13/09/2022
pH	6.33	pH units	13/09/2022
Potassium	171	mg/L	13/09/2022
Selenium	<0.002	mg/L	13/09/2022
Sodium	4900	mg/L	13/09/2022
Standing Water Level	4.065	metres	13/09/2022
Vanadium	0.0050	mg/L	13/09/2022
Zinc	0.040	mg/L	13/09/2022

Groundwater Monitoring
Groundwater Well – MW06

EPA Identification no. 34 – Groundwater Monitoring Well 06

Name	Reading	Units	Date
Aluminium	0.103	mg/L	14/09/2022
Ammonia	3.14	mg/L	14/09/2022
Arsenic (III)	<0.004	mg/L	14/09/2022
Arsenic (V)	<0.004	mg/L	14/09/2022
Cadmium	<0.0002	mg/L	14/09/2022
Calcium	466	mg/L	14/09/2022
Chromium (trivalent)	<0.01	mg/L	14/09/2022
Chromium (VI) compounds	<0.01	mg/L	14/09/2022
Copper	<0.001	mg/L	14/09/2022
Electrical Conductivity	21100	uS/cm	14/09/2022
Iron	14.8	mg/L	14/09/2022
Lead	0.0005	mg/L	14/09/2022
Magnesium	270	mg/L	14/09/2022
Manganese	0.456	mg/L	14/09/2022
Nickel	0.0006	mg/L	14/09/2022
pH	6.55	pH units	14/09/2022
Potassium	119	mg/L	14/09/2022
Selenium	<0.002	mg/L	14/09/2022
Sodium	3430	mg/L	14/09/2022
Standing Water Level	1.795	metres	14/09/2022
Vanadium	0.0008	mg/L	14/09/2022
Zinc	0.019	mg/L	14/09/2022

Groundwater Monitoring
Groundwater Well – EGM/D26

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