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

Environmental Monitoring Data November 2022



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 Service 1-30 November 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 November	-	-	-	-	-	-
2 November	-	-	-	-	-	-
3 November	-	-	-	-	-	-
4 November	-	-	-	-	-	-
5 November	-	-	-	-	-	-
6 November	-	-	-	-	-	-
7 November	-	-	-	-	-	-
8 November	-	-	-	-	-	-
9 November	-	-	-	-	-	-
10 November	-	-	-	-	-	-
11 November	-	-	-	-	-	-
12 November	-	-	-	-	-	-
13 November	-	-	-	-	-	-
14 November	-	-	-	-	-	-
15 November	-	-	-	-	-	-
16 November	-	-	-	-	-	-
17 November	-	-	-	-	-	-
18 November	-	-	-	-	-	-
19 November	-	-	-	-	-	-
20 November	-	-	-	-	-	-
21 November	-	-	-	-	-	-
22 November	-	-	-	-	-	-
23 November	-	-	-	-	-	-
24 November	-	-	-	-	-	-
25 November	-	-	-	-	-	-
26 November	-	-	-	-	-	-
27 November	-	-	-	-	-	-
28 November	-	-	-	-	-	-
29 November	-	-	-	-	-	-
30 November	-	-	-	-	-	-

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 1-30 November 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 November	-	-	-	-	-	-
2 November	-	-	-	-	-	-
3 November	-	-	-	-	-	-
4 November	-	-	-	-	-	-
5 November	-	-	-	-	-	-
6 November	-	-	-	-	-	-
7 November	-	-	-	-	-	-
8 November	-	-	-	-	-	-
9 November	-	-	-	-	-	-
10 November	-	-	-	-	-	-
11 November	-	-	-	-	-	-
12 November	-	-	-	-	-	-
13 November	-	-	-	-	-	-
14 November	-	-	-	-	-	-
15 November	-	-	-	-	-	-
16 November	-	-	-	-	-	-
17 November	-	-	-	-	-	-
18 November	-	-	-	-	-	-
19 November	-	-	-	-	-	-
20 November	-	-	-	-	-	-
21 November	-	-	-	-	-	-
22 November	-	-	-	-	-	-
23 November	-	-	-	-	-	-
24 November	-	-	-	-	-	-
25 November	-	-	-	-	-	-
26 November	-	-	-	-	-	-
27 November	-	-	-	-	-	-
28 November	-	-	-	-	-	-
29 November	-	-	-	-	-	-
30 November	-	-	-	-	-	-

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 28 November 2022
NOx Unit Out of Service 1 and 14-16 November 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 November	-	-	-	738	958	618
2 November	298	322	261	648	708	590
3 November	268	309	216	642	706	588
4 November	263	305	211	662	707	619
5 November	273	307	242	683	799	604
6 November	291	340	240	623	723	531
7 November	273	325	215	621	669	567
8 November	272	342	198	581	672	399
9 November	299	356	251	653	721	561
10 November	308	344	253	642	710	580
11 November	302	354	243	645	669	622
12 November	280	319	221	716	789	610
13 November	294	355	237	700	782	601
14 November	-	-	-	684	712	651
15 November	-	-	-	682	768	591
16 November	-	-	-	638	736	564
17 November	298	337	255	742	964	567
18 November	294	326	243	689	745	605
19 November	285	307	251	853	1016	695
20 November	322	380	259	750	809	673
21 November	281	324	237	718	781	632
22 November	284	322	229	677	770	580
23 November	270	317	224	650	746	553
24 November	276	314	234	636	760	545
25 November	273	314	220	654	752	574
26 November	280	310	238	702	792	629
27 November	322	380	256	703	810	555
28 November	-	-	-	-	-	-
29 November	299	335	247	687	791	634
30 November	283	320	251	680	719	625

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 16 and 28 November 2022
NOx Unit Out of Service 23 November 2022
SO_2 Unit Out of Service 1 November 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 November	311	385	224	-	-	-
2 November	257	306	158	573	750	327
3 November	228	303	168	546	706	385
4 November	210	265	152	544	655	326
5 November	241	290	191	616	793	409
6 November	274	349	185	575	713	383
7 November	231	319	163	531	684	357
8 November	259	364	174	558	679	386
9 November	221	344	164	495	666	366
10 November	243	297	194	513	621	384
11 November	231	303	147	500	600	331
12 November	211	257	146	574	707	370
13 November	230	297	168	553	691	372
14 November	233	292	187	543	644	408
15 November	263	315	197	625	860	469
16 November	-	-	-	-	-	-
17 November	225	294	179	567	866	376
18 November	231	288	187	550	667	370
19 November	237	286	182	731	927	505
20 November	282	339	223	682	734	585
21 November	222	276	167	616	711	441
22 November	232	306	187	565	715	339
23 November	-	-	-	488	646	292
24 November	200	277	163	468	705	309
25 November	210	479	163	472	658	332
26 November	254	290	159	627	718	349
27 November	243	294	189	578	740	320
28 November	-	-	-	-	-	-
29 November	215	289	151	513	705	324
30 November	230	286	174	566	648	462

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 17-18 and 22-29 November 2022
NOx Unit Out of Service 1-6 and 9-15 November 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 November	-	-	-	850	974	751
2 November	-	-	-	794	872	734
3 November	-	-	-	763	821	712
4 November	-	-	-	785	854	723
5 November	-	-	-	815	954	755
6 November	-	-	-	775	853	687
7 November	333	386	258	780	950	694
8 November	370	435	316	722	756	676
9 November	-	-	-	726	768	689
10 November	-	-	-	747	786	718
11 November	-	-	-	732	795	685
12 November	-	-	-	809	881	738
13 November	-	-	-	783	831	738
14 November	-	-	-	756	811	705
15 November	-	-	-	757	827	722
16 November	398	465	330	718	750	684
17 November	-	-	-	-	-	-
18 November	-	-	-	-	-	-
19 November	325	386	237	927	1041	786
20 November	379	426	303	840	912	767
21 November	406	435	337	906	979	776
22 November	-	-	-	-	-	-
23 November	-	-	-	-	-	-
24 November	-	-	-	-	-	-
25 November	-	-	-	-	-	-
26 November	-	-	-	-	-	-
27 November	-	-	-	-	-	-
28 November	-	-	-	-	-	-
29 November	-	-	-	-	-	-
30 November	329	362	293	687	737	642

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 17-18 and 23-30 November 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 November	310	365	246	762	887	668
2 November	324	395	266	706	773	655
3 November	322	370	253	688	744	626
4 November	316	420	254	707	768	650
5 November	333	402	288	740	868	680
6 November	344	391	277	702	766	620
7 November	314	379	250	709	845	645
8 November	333	403	294	659	693	615
9 November	312	405	265	666	712	630
10 November	347	400	303	681	709	659
11 November	335	422	284	668	725	630
12 November	343	436	289	741	789	683
13 November	323	397	272	719	764	670
14 November	326	400	286	686	727	655
15 November	316	398	245	701	758	671
16 November	342	412	291	653	694	623
17 November	-	-	-	-	-	-
18 November	-	-	-	-	-	-
19 November	307	355	274	841	922	760
20 November	330	359	290	756	810	702
21 November	353	390	292	743	774	722
22 November	299	390	264	704	774	639
23 November	-	-	-	-	-	-
24 November	-	-	-	-	-	-
25 November	-	-	-	-	-	-
26 November	-	-	-	-	-	-
27 November	-	-	-	-	-	-
28 November	-	-	-	-	-	-
29 November	-	-	-	-	-	-
30 November	-	-	-	-	-	-

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 2 and 15-18 November 2022
NOx Unit Out of Service 5-6 and 23-24 November 2022
SO_2 Unit Out of Service 28-29 November 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 November	316	347	250	817	1027	682
2 November	-	-	-	-	-	-
3 November	324	371	243	671	790	597
4 November	319	384	257	685	803	578
5 November	-	-	-	726	828	659
6 November	-	-	-	660	708	580
7 November	331	409	287	670	760	563
8 November	327	389	282	637	701	569
9 November	313	348	276	638	677	589
10 November	346	386	306	650	687	590
11 November	324	400	285	638	676	599
12 November	319	390	253	704	744	645
13 November	306	361	243	682	720	624
14 November	301	336	257	646	670	604
15 November	-	-	-	-	-	-
16 November	-	-	-	-	-	-
17 November	-	-	-	-	-	-
18 November	-	-	-	-	-	-
19 November	296	337	252	836	975	721
20 November	282	311	234	699	776	620
21 November	297	374	251	675	715	594
22 November	311	361	270	630	664	586
23 November	-	-	-	640	722	596
24 November	-	-	-	578	678	411
25 November	293	342	239	595	653	517
26 November	311	390	266	592	619	546
27 November	299	361	245	639	727	561
28 November	314	370	269	-	-	-
29 November	311	354	287	-	-	-
30 November	293	339	242	606	643	561

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 2, 17-18 and 23-24 November 2022
NOx Unit Out of Service 7-8 November 2022
SO_2 Unit Out of Service 20, 22 and 25 November 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 November	316	386	242	784	1033	372
2 November	-	-	-	-	-	-
3 November	335	471	239	650	835	507
4 November	339	462	240	682	815	569
5 November	331	467	270	671	781	329
6 November	350	469	256	635	681	555
7 November	-	-	-	667	758	452
8 November	-	-	-	619	723	498
9 November	315	414	255	606	680	517
10 November	349	455	290	629	693	458
11 November	357	540	264	619	708	439
12 November	344	484	236	693	734	589
13 November	323	456	225	665	702	568
14 November	301	378	248	640	700	520
15 November	303	358	235	637	704	518
16 November	300	431	93	579	938	82
17 November	-	-	-	-	-	-
18 November	-	-	-	-	-	-
19 November	281	319	243	788	948	413
20 November	268	292	222	-	-	-
21 November	287	337	217	667	789	473
22 November	287	348	221	-	-	-
23 November	-	-	-	-	-	-
24 November	-	-	-	-	-	-
25 November	323	410	229	-	-	-
26 November	341	445	247	635	713	472
27 November	322	433	232	665	738	472
28 November	349	426	273	632	716	363
29 November	336	432	263	672	734	518
30 November	301	339	246	680	727	561

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	0.4	0.4	0.8
E4	18	0.6	0.5	1.1
E6	19	2.3	1.7	4.0
U6	20	1.8	0.2	2.0

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
19.35	0.50	19.72	8.23	17.3	115.1	9.20	2.25

Name	Reading	Units	Date
Aluminium	0.046	mg/L	4/11/2022
Ammonia	<0.005	mg/L	4/11/2022
Arsenic III	<0.004	mg/	4/11/2022
Arsenic V	<0.004	mg/L	4/11/2022
Cadmium	<0.0002	mg/L	4/11/2022
Chromium (Trivalent)	<0.001	mg/L	4/11/2022
Chromium (VI) Compounds	<0.001	mg/L	4/11/2022
Copper	<0.001	mg/L	4/11/2022
Iron	0.060	mg/L	4/11/2022
Lead	<0.0002	mg/L	4/11/2022
Manganese	0.0077	mg/L	4/11/2022
Nickel	<0.0005	mg/L	4/11/2022
pH	7.95	pH units	4/11/2022
Selenium	<0.002	mg/L	4/11/2022
Total Suspended Solids	26	mg/L	4/11/2022
Vanadium	0.0018	mg/L	4/11/2022
Zinc	0.007	mg/L	4/11/2022

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
20.29	0.50	20.63	8.33	17.0	116.5	9.21	2.75

Name	Reading	Units	Date
Aluminium	0.029	mg/L	4/11/2022
Ammonia	<0.005	mg/L	4/11/2022
Arsenic III	<0.004	mg/L	4/11/2022
Arsenic V	<0.004	mg/L	4/11/2022
Cadmium	<0.0002	mg/L	4/11/2022
Chromium (Trivalent)	<0.001	mg/L	4/11/2022
Chromium (VI) Compounds	<0.001	mg/L	4/11/2022
Copper	0.001	mg/L	4/11/2022
Iron	0.023	mg/L	4/11/2022
Lead	<0.0002	mg/L	4/11/2022
Manganese	0.0072	mg/L	4/11/2022
Nickel	<0.0005	mg/L	4/11/2022
pH	8.02	pH units	4/11/2022
Selenium	<0.002	mg/L	4/11/2022
Total Suspended Solids	24	mg/L	4/11/2022
Vanadium	0.0019	mg/L	4/11/2022
Zinc	<0.005	mg/L	4/11/2022

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
14.48	0.50	19.09	8.45	17.7	123.4	9.97	4.25

Name	Reading	Units	Date
Aluminium	0.016	mg/L	4/11/2022
Ammonia	<0.005	mg/L	4/11/2022
Arsenic III	<0.004	mg/L	4/11/2022
Arsenic V	<0.004	mg/L	4/11/2022
Cadmium	<0.0002	mg/L	4/11/2022
Chromium (Trivalent)	<0.001	mg/L	4/11/2022
Chromium (VI) Compounds	<0.001	mg/L	4/11/2022
Copper	<0.001	mg/L	4/11/2022
Iron	0.011	mg/L	4/11/2022
Lead	<0.0002	mg/L	4/11/2022
Manganese	0.0042	mg/L	4/11/2022
Nickel	<0.0005	mg/L	4/11/2022
pH	8.03	pH units	4/11/2022
Selenium	<0.002	mg/L	4/11/2022
Total Suspended Solids	24	mg/L	4/11/2022
Vanadium	0.0016	mg/L	4/11/2022
Zinc	<0.005	mg/L	4/11/2022

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
17.57	0.5	22.20	8.21	17.6	123.8	9.41	2.25

Name	Reading	Units	Date
Aluminium	0.069	mg/L	4/11/2022
Ammonia	<0.005	mg/L	4/11/2022
Arsenic III	<0.004	mg/L	4/11/2022
Arsenic V	<0.004	mg/L	4/11/2022
Cadmium	<0.0002	mg/L	4/11/2022
Chromium (Trivalent)	<0.001	mg/L	4/11/2022
Chromium (VI) Compounds	<0.001	mg/L	4/11/2022
Copper	0.001	mg/L	4/11/2022
Iron	0.072	mg/L	4/11/2022
Lead	<0.0002	mg/L	4/11/2022
Manganese	0.0088	mg/L	4/11/2022
Nickel	<0.0005	mg/L	4/11/2022
pH	7.97	pH units	4/11/2022
Selenium	<0.002	mg/L	4/11/2022
Total Suspended Solids	22	mg/L	4/11/2022
Vanadium	0.0019	mg/L	4/11/2022
Zinc	<0.005	mg/L	4/11/2022

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	0.147	mg/L	-	3/11/2022
Ammonia	2.02	mg/L	-	3/11/2022
Arsenic III	<0.0005	mg/L	-	3/11/2022
Arsenic V	0.0090	mg/L	-	3/11/2022
Cadmium	0.00010	mg/L	-	3/11/2022
Chromium (Trivalent)	<0.001	mg/L	-	3/11/2022
Chromium (VI) Compounds	<0.01	mg/L	-	3/11/2022
Copper	0.0022	mg/L	-	3/11/2022
Iron	0.053	mg/L	-	3/11/2022
Lead	<0.0001	mg/L	-	3/11/2022
Manganese	0.104	mg/L	-	3/11/2022
Nickel	0.0020	mg/L	-	3/11/2022
Nitrite and Nitrate as N	3.48	mg/L	-	3/11/2022
Nitrogen	6.5	mg/L	-	3/11/2022
pH	8.12	pH units	-	3/11/2022
Phosphorus as P	0.54	mg/L	-	3/11/2022
Reactive Phosphorus as P	0.46	mg/L	-	3/11/2022
Selenium	0.0232	mg/L	-	3/11/2022
Total Kjeldahl Nitrogen	3.0	mg/L	-	3/11/2022
Total Suspended Solids	11	mg/L	-	3/11/2022
Vanadium	0.0493	mg/L	-	3/11/2022
Zinc	0.008	mg/L	-	3/11/2022

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	0.122	mg/L	-	3/11/2022
Ammonia	<0.005	mg/L	-	3/11/2022
Arsenic III	<0.004	mg/L	-	3/11/2022
Arsenic V	<0.004	mg/L	-	3/11/2022
Cadmium	<0.0002	mg/L	-	3/11/2022
Chromium (Trivalent)	<0.001	mg/L	-	3/11/2022
Chromium (VI) Compounds	<0.001	mg/L	-	3/11/2022
Copper	0.0010	mg/L	-	3/11/2022
Iron	0.167	mg/L	-	3/11/2022
Lead	<0.0002	mg/L	-	3/11/2022
Manganese	0.0104	mg/L	-	3/11/2022
Nickel	0.0005	mg/L	-	3/11/2022
pH	7.92	pH units	-	3/11/2022
Selenium	<0.001	mg/L	-	3/11/2022
Total Suspended Solids	<5	mg/L	-	3/11/2022
Vanadium	0.0023	mg/L	-	3/11/2022
Zinc	<0.005	mg/L	-	3/11/2022
Dissolved Oxygen	9.57	mg/L	-	3/11/2022
Field Temperature	19.4	degC	-	3/11/2022
Salinity	17.7	ppt	-	3/11/2022
Secchi Disk	2.50	m	-	3/11/2022
Temperature – Average	22.27	deg C	-	November 2022
Temperature – Minimum	14.10	deg C	-	November 2022
Temperature - Maximum	24.80	deg C	-	November 2022

Eraring Cooling Water Outlet Canal

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

Name	Reading	Units	Licence Limit	Date
Copper	0.0022	mg/L	0.005	3/11/2022
Iron	0.140	mg/L	0.3	4/11/2022
Selenium	<0.001	mg/L	0.002	3/11/2022
Temperature – Average	27.64	deg C	37.5	November 2022
Temperature – Minimum	22.31	deg C	37.5	November 2022
Temperature - Maximum	35.06	deg C	37.5	November 2022
Maximum Daily Discharge from Ash Dam	10.81	ML	150	November 2022
Monthly Discharge from Ash Dam	90.82	ML	-	November 2022

Emergency Discharge – Toe Drain Pond

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

Name	Reading	Units	Licence Limit	Date
Aluminium	0.012	mg/L	-	3/11/2022
Ammonia	2.64	mg/L	-	3/11/2022
Arsenic III	0.0080	mg/L	-	3/11/2022
Arsenic V	<0.0005	mg/L	-	3/11/2022
Cadmium	<0.00005	mg/L	-	3/11/2022
Chromium (Trivalent)	<0.001	mg/L	-	3/11/2022
Chromium (VI) Compounds	<0.01	mg/L	-	3/11/2022
Copper	<0.0005	mg/L	-	3/11/2022
Iron	4.97	mg/L	-	3/11/2022
Lead	<0.0001	mg/L	-	3/11/2022
Manganese	0.801	mg/L	-	3/11/2022
Nickel	0.0015	mg/L	-	3/11/2022
Nitrite and Nitrate as N	0.158	mg/L	-	3/11/2022
Nitrogen	2.59	mg/L	-	3/11/2022
pH	6.67	pH units	6-9.5	3/11/2022
Phosphorus as P	0.226	mg/L	-	3/11/2022
Reactive Phosphorus as P	0.013	mg/L	-	3/11/2022
Selenium	0.0004	mg/L	-	3/11/2022
Total Kjeldahl Nitrogen	2.43	mg/L	-	3/11/2022
Total Suspended Solids	26	mg/L	50	3/11/2022
Vanadium	0.0008	mg/L	-	3/11/2022
Zinc	0.001	mg/L	-	3/11/2022

MR217

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

MR217 did not discharge throughout November 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	-