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

Environmental Monitoring Data November 2024



Unit 1A Boiler Continuous Emission Monitoring Summary

EPA Identification no.7 - Air emissions monitoring, Boiler 1 stack discharge to air
NOx Unit Data Invalidated 1, 3-4, 6, 8-13, 17-18 November 2024

	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
01/11/2024	-	-	-	706	840	559
02/11/2024	351	400	299	612	820	417
03/11/2024	-	-	-	756	976	375
04/11/2024	-	-	-	798	916	708
05/11/2024	456	512	367	796	1046	654
06/11/2024	-	-	-	833	944	589
07/11/2024	451	509	379	828	965	710
08/11/2024	-	-	-	816	906	623
09/11/2024	-	-	-	819	906	697
10/11/2024	-	-	-	738	901	605
11/11/2024	-	-	-	817	972	671
12/11/2024	-	-	-	718	891	607
13/11/2024	-	-	-	780	887	663
14/11/2024	447	493	374	741	861	628
15/11/2024	441	501	363	845	1097	707
16/11/2024	412	492	288	749	955	578
17/11/2024	-	-	-	877	1031	598
18/11/2024	-	-	-	716	822	630
19/11/2024	499	571	453	729	863	612
20/11/2024	472	512	382	737	855	584
21/11/2024	416	507	315	756	874	560
22/11/2024	419	488	345	784	910	630
23/11/2024	434	501	314	796	864	708
24/11/2024	458	545	345	782	843	739
25/11/2024	421	504	330	784	867	729
26/11/2024	381	473	286	699	759	671
27/11/2024	398	458	350	850	986	694
28/11/2024	415	460	310	781	914	681
29/11/2024	445	499	355	826	980	688
30/11/2024	435	481	314	843	963	712

Unit 1B Boiler Continuous Emission Monitoring Summary

EPA Identification no.7 - Air emissions monitoring, Boiler 1 stack discharge to air
NOX Unit Data Invalidated 11, 24, 26 November 2024

	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
01/11/2024	358	431	279	736	757	713
02/11/2024	354	412	320	742	770	701
03/11/2024	392	460	314	729	765	688
04/11/2024	377	435	305	813	951	707
05/11/2024	400	441	342	799	912	733
06/11/2024	422	543	352	766	813	716
07/11/2024	409	454	374	733	758	685
08/11/2024	377	477	328	752	790	698
09/11/2024	396	455	354	785	841	739
10/11/2024	369	408	318	750	789	717
11/11/2024	-	-	-	775	831	734
12/11/2024	325	439	246	743	789	713
13/11/2024	385	463	319	752	782	715
14/11/2024	388	445	344	748	828	714
15/11/2024	390	439	343	827	963	764
16/11/2024	387	446	294	776	835	697
17/11/2024	381	434	321	801	923	710
18/11/2024	392	463	334	697	731	678
19/11/2024	424	489	374	722	750	687
20/11/2024	406	440	348	733	774	701
21/11/2024	375	425	301	764	802	694
22/11/2024	375	416	330	735	751	723
23/11/2024	374	421	301	724	755	678
24/11/2024	-	-	-	698	751	648
25/11/2024	375	445	312	708	754	660
26/11/2024	-	-	-	620	682	605
27/11/2024	344	415	299	746	862	626
28/11/2024	379	446	294	717	786	636
29/11/2024	390	449	304	778	882	723
30/11/2024	385	436	264	772	837	698

Unit 2A Boiler Continuous Emission Monitoring Summary

EPA Identification no. 9 - Air emissions monitoring, Boiler 2 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
01/11/2024	403	518	317	740	785	698
02/11/2024	352	423	284	732	777	691
03/11/2024	374	476	290	706	732	683
04/11/2024	448	496	402	795	959	674
05/11/2024	456	536	337	799	887	715
06/11/2024	434	563	310	725	760	685
07/11/2024	467	550	349	718	765	685
08/11/2024	374	487	307	742	803	683
09/11/2024	435	517	316	766	838	686
10/11/2024	399	518	268	745	818	697
11/11/2024	470	529	369	754	847	728
12/11/2024	458	532	390	690	743	649
13/11/2024	416	591	293	721	764	651
14/11/2024	435	583	300	718	754	690
15/11/2024	481	578	401	755	796	723
16/11/2024	434	507	385	751	842	684
17/11/2024	377	416	328	742	827	674
18/11/2024	332	462	246	680	716	643
19/11/2024	276	312	250	711	750	678
20/11/2024	276	287	267	731	745	720
21/11/2024	344	490	269	737	766	702
22/11/2024	425	488	339	702	745	662
23/11/2024	421	511	303	690	738	653
24/11/2024	480	551	373	676	715	638
25/11/2024	432	564	320	650	689	598
26/11/2024	441	530	330	581	673	536
27/11/2024	448	600	397	647	693	564
28/11/2024	424	450	388	662	740	606
29/11/2024	375	429	305	720	831	635
30/11/2024	398	431	376	671	754	563

Unit 2B Boiler Continuous Emission Monitoring Summary

EPA Identification no. 10 - Air emissions monitoring, Boiler 2 stack discharge to air
NOX Unit Data Invalidated 16-19 November 2024

	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
01/11/2024	423	521	325	746	792	717
02/11/2024	348	450	286	742	785	695
03/11/2024	396	491	330	729	770	691
04/11/2024	457	528	388	815	973	702
05/11/2024	452	525	308	813	909	738
06/11/2024	433	550	315	740	775	708
07/11/2024	466	531	353	733	762	704
08/11/2024	383	488	298	756	830	711
09/11/2024	432	519	305	786	852	718
10/11/2024	396	517	262	761	820	726
11/11/2024	466	528	353	779	845	750
12/11/2024	460	525	392	718	791	661
13/11/2024	414	547	293	736	794	671
14/11/2024	445	536	317	733	756	709
15/11/2024	481	561	395	773	807	735
16/11/2024	-	-	-	765	831	700
17/11/2024	-	-	-	747	833	673
18/11/2024	-	-	-	686	719	648
19/11/2024	-	-	-	720	763	682
20/11/2024	273	280	266	742	754	727
21/11/2024	355	537	272	763	791	737
22/11/2024	425	490	342	739	792	695
23/11/2024	416	487	301	720	757	687
24/11/2024	474	552	370	708	740	672
25/11/2024	433	550	320	676	724	625
26/11/2024	434	502	311	609	708	567
27/11/2024	442	555	403	687	727	592
28/11/2024	418	440	390	705	782	646
29/11/2024	380	420	317	771	871	680
30/11/2024	403	425	384	728	819	619

Unit 3A Boiler Continuous Emission Monitoring Summary

EPA Identification no. 11 - Air emissions monitoring, Boiler 3 stack discharge to air
Unit 3A Offline 1 to 30 November 2024

	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
01/11/2024	-	-	-	-	-	-
02/11/2024	-	-	-	-	-	-
03/11/2024	-	-	-	-	-	-
04/11/2024	-	-	-	-	-	-
05/11/2024	-	-	-	-	-	-
06/11/2024	-	-	-	-	-	-
07/11/2024	-	-	-	-	-	-
08/11/2024	-	-	-	-	-	-
09/11/2024	-	-	-	-	-	-
10/11/2024	-	-	-	-	-	-
11/11/2024	-	-	-	-	-	-
12/11/2024	-	-	-	-	-	-
13/11/2024	-	-	-	-	-	-
14/11/2024	-	-	-	-	-	-
15/11/2024	-	-	-	-	-	-
16/11/2024	-	-	-	-	-	-
17/11/2024	-	-	-	-	-	-
18/11/2024	-	-	-	-	-	-
19/11/2024	-	-	-	-	-	-
20/11/2024	-	-	-	-	-	-
21/11/2024	-	-	-	-	-	-
22/11/2024	-	-	-	-	-	-
23/11/2024	-	-	-	-	-	-
24/11/2024	-	-	-	-	-	-
25/11/2024	-	-	-	-	-	-
26/11/2024	-	-	-	-	-	-
27/11/2024	-	-	-	-	-	-
28/11/2024	-	-	-	-	-	-
29/11/2024	-	-	-	-	-	-
30/11/2024	-	-	-	-	-	-

Unit 3B Boiler Continuous Emission Monitoring Summary

EPA Identification no. 12 - Air emissions monitoring, Boiler 3 stack discharge to air
Unit 3B Offline 1 to 30 November 2024

	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
01/11/2024	-	-	-	-	-	-
02/11/2024	-	-	-	-	-	-
03/11/2024	-	-	-	-	-	-
04/11/2024	-	-	-	-	-	-
05/11/2024	-	-	-	-	-	-
06/11/2024	-	-	-	-	-	-
07/11/2024	-	-	-	-	-	-
08/11/2024	-	-	-	-	-	-
09/11/2024	-	-	-	-	-	-
10/11/2024	-	-	-	-	-	-
11/11/2024	-	-	-	-	-	-
12/11/2024	-	-	-	-	-	-
13/11/2024	-	-	-	-	-	-
14/11/2024	-	-	-	-	-	-
15/11/2024	-	-	-	-	-	-
16/11/2024	-	-	-	-	-	-
17/11/2024	-	-	-	-	-	-
18/11/2024	-	-	-	-	-	-
19/11/2024	-	-	-	-	-	-
20/11/2024	-	-	-	-	-	-
21/11/2024	-	-	-	-	-	-
22/11/2024	-	-	-	-	-	-
23/11/2024	-	-	-	-	-	-
24/11/2024	-	-	-	-	-	-
25/11/2024	-	-	-	-	-	-
26/11/2024	-	-	-	-	-	-
27/11/2024	-	-	-	-	-	-
28/11/2024	-	-	-	-	-	-
29/11/2024	-	-	-	-	-	-
30/11/2024	-	-	-	-	-	-

Unit 4A Boiler Continuous Emission Monitoring Summary

EPA Identification no. 13 - Air emissions monitoring, Boiler 4 stack discharge to air
Unit 4A Data Invalidated 19-20, 25-26 November 2024
NOX Unit Data Invalidated 3 November 2024
SO2 Unit Data Invalidated 27 November 2024

	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
01/11/2024	307	361	272	546	650	451
02/11/2024	347	428	267	540	698	420
03/11/2024	-	-	-	565	719	428
04/11/2024	301	405	268	556	719	458
05/11/2024	337	546	247	572	716	483
06/11/2024	350	477	263	563	724	461
07/11/2024	302	356	280	526	623	464
08/11/2024	338	449	288	595	773	471
09/11/2024	374	520	302	625	829	472
10/11/2024	341	451	276	586	728	468
11/11/2024	291	390	248	548	695	462
12/11/2024	272	309	242	485	538	408
13/11/2024	301	397	259	541	662	445
14/11/2024	322	456	261	541	714	472
15/11/2024	306	350	264	557	637	500
16/11/2024	329	410	277	605	805	484
17/11/2024	321	420	235	677	948	497
18/11/2024	322	490	248	543	678	456
19/11/2024	-	-	-	-	-	-
20/11/2024	-	-	-	-	-	-
21/11/2024	342	522	294	573	731	471
22/11/2024	351	475	263	574	715	444
23/11/2024	339	506	250	573	727	483
24/11/2024	352	498	278	549	704	477
25/11/2024	-	-	-	-	-	-
26/11/2024	-	-	-	-	-	-
27/11/2024	257	354	175	-	-	-
28/11/2024	284	313	251	485	556	428
29/11/2024	306	496	254	551	784	466
30/11/2024	301	326	271	524	604	457

Unit 4B Boiler Continuous Emission Monitoring Summary

EPA Identification no. 14 – Air emissions monitoring, Boiler 4 stack discharge to air
Unit 4B Data Invalidated 19-20 November 2024
NOX Unit Data Invalidated 3 November 2024

	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
01/11/2024	355	386	274	694	739	627
02/11/2024	375	427	345	721	773	656
03/11/2024	-	-	-	689	765	608
04/11/2024	381	425	338	734	898	608
05/11/2024	387	494	308	763	847	653
06/11/2024	406	462	369	696	772	620
07/11/2024	370	396	346	667	735	607
08/11/2024	379	422	351	716	808	643
09/11/2024	402	483	341	735	882	633
10/11/2024	375	426	346	705	781	635
11/11/2024	364	416	341	704	779	641
12/11/2024	356	401	312	633	663	556
13/11/2024	356	454	313	681	735	595
14/11/2024	363	406	294	680	776	627
15/11/2024	376	404	337	716	794	649
16/11/2024	373	412	332	745	848	632
17/11/2024	376	467	310	795	985	627
18/11/2024	377	486	295	658	739	593
19/11/2024	-	-	-	-	-	-
20/11/2024	-	-	-	-	-	-
21/11/2024	388	500	359	712	789	637
22/11/2024	405	505	331	712	754	642
23/11/2024	393	467	339	696	780	641
24/11/2024	402	464	362	663	749	587
25/11/2024	373	400	351	648	695	588
26/11/2024	353	388	324	575	658	534
27/11/2024	344	371	318	667	831	554
28/11/2024	345	357	324	617	698	547
29/11/2024	375	449	355	726	911	618
30/11/2024	372	395	352	662	749	567

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	4	18/04/2023
Fluorine	14	mg/m^3	30	18/04/2023
Hydrogen chloride	15	mg/m^3	50	18/04/2023
Solid Particles	3.8	mg/m^3	50	27/06/2024
Sulfuric acid mist and sulfur trioxide (as SO3)	1.5	mg/m^3	100	18/04/2023
Volatile organic compounds as n-propane equivalent	0.18	mg/m^3	8	18/04/2023
Cadmium	<0.0003	mg/m^3	0.03	27/02/2024
Mercury	<0.0003	mg/m^3	0.03	27/02/2024
Solid Particles	9.6	mg/m^3	50	27/02/2024
Type 1 and 2 substances in Aggregate	<0.02	mg/m^3	0.60	27/02/2024

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

Name	Reading	Units	Licence Limit	Date
Flow Rate	170	m3/sec		25/06/2024
Moisture	5.6	%		25/06/2024
Oxygen	8.1	%		25/06/2024
Solid Particles	4.4	mg/m3		25/06/2024
Temperature	119	degC		25/06/2024
Carbon dioxide	12	%		25/06/2024
Chlorine	0.11	mg/m3		25/06/2024
Fluorine	7.2	mg/m3		25/06/2024
Hydrogen chloride	21	mg/m3		25/06/2024
Sulfuric acid mist and sulfur trioxide (as SO3)	1.5	mg/m3		25/06/2024
Volatile organic compounds as n-propane equivalent	0.76	mg/m3		25/06/2024
Cadmium	<0.0003	mg/m3		27/02/2024
Flow Rate	170	m3/sec		25/06/2024
Mercury	<0.0003	mg/m3		27/02/2024
Moisture	5.6	%		25/06/2024
Oxygen	7.4	%		27/02/2024
Solid Particles	4.4	mg/m3		25/06/2024
Temperature	119	degC		25/06/2024
Type 1 and Type 2 substances in Aggregate	<0.018	mg/m3		27/02/2024
Carbon dioxide	12	%		27/02/2024

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

Name	Reading	Units	Licence Limit	Date
Flow Rate	140	m3/sec		27/06/2024
Moisture	5.3	%		27/06/2024
Oxygen	6.6	%		27/06/2024
Solid Particles	3.1	mg/m3		27/06/2024
Temperature	117	degC		27/06/2024
Carbon dioxide	13.1	%		27/06/2024
Cadmium	<0.0003	mg/m3		27/02/2024
Flow Rate	140	m3/sec		27/06/2024
Mercury	<0.0003	mg/m3		27/02/2024
Moisture	5.3	%		27/06/2024
Oxygen	6.6	%		27/06/2024
Solid Particles	3.1	mg/m3		27/06/2024
Temperature	117	degC		27/06/2024
Type 1 and Type 2 substances in Aggregate	<0.017	mg/m3		27/02/2024
Carbon dioxide	13.1	12%		27/06/2024

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	4	3/05/2023
Fluorine	12	mg/m^3	30	3/05/2023
Hydrogen chloride	15	mg/m^3	50	3/05/2023
Solid Particles	2.9	mg/m^3	50	28/05/2024
Sulfuric acid mist and sulfur trioxide (as SO3)	0.92	mg/m^3	100	3/05/2023
Volatile organic compounds as n-propane equivalent	<0.07	mg/m^3	8	3/05/2023
Cadmium	<0.0002	mg/m^3	0.03	28/02/2024
Mercury	0.00048	mg/m^3	0.03	28/02/2024
Solid Particles	2.9	mg/m3	50	26/05/2024
Type 1 and 2 substances in Aggregate	*	mg/m3	0.60	28/02/2024

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

Name	Reading	Units	Licence Limit	Date
Flow Rate	300	m3/sec	-	28/05/2024
Moisture	6	%	-	28/05/2024
Oxygen	7.8	%	-	28/05/2024
Solid Particles	3.6	mg/m3	-	28/05/2024
Temperature	113	degC	-	28/05/2024
Carbon dioxide	12.4	%	-	28/05/2024
Chlorine	0.036	mg/m3	-	28/05/2024
Fluorine	9	mg/m3	-	28/05/2024
Hydrogen chloride	9.3	mg/m3	-	28/05/2024
Sulfuric acid mist and sulfur trioxide (as SO3)	5.7	mg/m3	-	28/05/2024
Volatile organic compounds as n-propane equivalent	0.77	mg/m3	-	28/05/2024
Cadmium	<0.0002	mg/m3	-	28/05/2024
Flow Rate	300	m3/sec	-	28/05/2024
Mercury	0.0012	mg/m3	-	28/05/2024
Moisture	6	%	-	28/05/2024
Oxygen	7.8	%	-	28/05/2024
Solid Particles	3.6	mg/m3	-	28/05/2024
Temperature	113	degC	-	28/05/2024
Type 1 and Type 2 substances in Aggregate	<0.033	mg/m3	-	28/05/2024
Carbon dioxide	12.4	%	-	28/05/2024

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

Name	Reading	Units	Licence	Date
Flow Rate	300	m3/sec	-	28/05/2024
Moisture	6.3	%	-	28/05/2024
Oxygen	7.2	%	-	28/05/2024
Solid Particles	2.2	mg/m3	-	28/05/2024
Temperature	114	degC	-	28/05/2024
Carbon dioxide	11.9	%	-	28/05/2024
Cadmium	<0.0003	mg/m3	-	28/02/2024
Flow Rate	300	m3/sec	-	28/02/2024
Mercury	0.00039	mg/m3	-	28/02/2024
Moisture	5.6	%	-	28/02/2024
Oxygen	6.3	%	-	28/02/2024
Solid Particles	19	mg/m3	-	28/02/2024
Temperature	122	degC	-	28/02/2024
Type 1 and Type 2 substances in Aggregate	<0.14	mg/m3	-	28/02/2024
Carbon dioxide	12.7	%	-	28/02/2024

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	4	19/04/2023
Fluorine	9.2	mg/m3	30	19/04/2023
Hydrogen chloride	19	mg/m3	50	19/04/2023
Solid Particles	9.7	mg/m3	50	29/05/2024
Sulfuric acid mist and sulfur trioxide (as SO3)	1.4	mg/m3	100	19/04/2023
Volatile organic compounds as n-propane equivalent	0.76	mg/m3	8	19/04/2023
Cadmium	<0.0002	mg/m3	0.03	29/02/2024
Mercury	<0.0005	mg/m3	0.03	29/02/2024
Solid Particles	9.7	mg/m3	50	29/05/2024
Type 1 and 2 substances in Aggregate	<0.06	mg/m3	0.60	29/02/2024

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

Name	Reading	Units	Licence Limit	Date
Flow Rate	330	m3/sec	-	29/05/2024
Moisture	6.4	%	-	29/05/2024
Oxygen	7.5	%	-	29/05/2024
Solid Particles	10	mg/m3	-	29/05/2024
Temperature	114	degC	-	29/05/2024
Carbon dioxide	12.6	%	-	29/05/2024
Chlorine	<0.01	mg/m3	-	29/05/2024
Fluorine	14	mg/m3	-	29/05/2024
Hydrogen chloride	17	mg/m3	-	29/05/2024
Sulfuric acid mist and sulfur trioxide (as SO3)	1.7	mg/m3	-	29/05/2024
Volatile organic compounds as n-propane equivalent	0.23	mg/m3	-	29/05/2024
Cadmium	<0.0003	mg/m3	-	29/02/2024
Flow Rate	360	m3/sec	-	29/02/2024
Mercury	<0.0003	mg/m3	-	29/02/2024
Moisture	5.8	%	-	29/02/2024
Oxygen	7.2	%	-	29/02/2024
Solid Particles	2.5	mg/m3	-	29/02/2024
Temperature	126	degC	-	29/02/2024
Type 1 and Type 2 substances in Aggregate	<0.011	mg/m3	-	29/02/2024
Carbon dioxide	11.7	%	-	29/02/2024

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

Name	Reading	Units	Licence Limit	Date
Flow Rate	300	m3/sec	-	29/05/2024
Moisture	6.1	%	-	29/05/2024
Oxygen	7.3	%	-	29/05/2024
Solid Particles	9.3	mg/m3	-	29/05/2024
Temperature	116	degC	-	29/05/2024
Carbon dioxide	11.9	%	-	29/05/2024
Cadmium	<0.0002	mg/m3	-	29/02/2024
Flow Rate	420	m3/sec	-	29/02/2024
Mercury	0.00067	mg/m3	-	29/02/2024
Moisture	6.6	%	-	29/02/2024
Oxygen	7.2	%	-	29/02/2024
Solid Particles	8.4	mg/m3	-	29/02/2024
Temperature	120	degC	-	29/02/2024
Type 1 and Type 2 substances in Aggregate	<0.019	mg/m3	-	29/02/2024
Carbon dioxide	12.4	%	-	29/02/2024

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	0.03	mg/m3	4	5/05/2023
Fluorine	7.4	mg/m3	30	5/05/2023
Hydrogen chloride	8.2	mg/m3	50	5/05/2023
Solid Particles	23	mg/m3	50	30/05/2024
Sulfuric acid mist and sulfur trioxide (as SO3)	2.0	mg/m3	100	5/05/2023
Volatile organic compounds as n-propane equivalent	<0.07	mg/m3	8	5/05/2023
Cadmium	<0.0003	mg/m3	0.03	1/03/2024
Mercury	0.00109	mg/m3	0.03	1/03/2024
Solid Particles	23	mg/m3	50	30/05/2024
Type 1 and 2 substances in Aggregate	<0.05	mg/m3	0.60	1/03/2024

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

Name	Reading	Units	Licence Limit	Date
Flow Rate	300	m^3/sec	-	30/05/2024
Moisture	5.8	%	-	30/05/2024
Oxygen	7.5	%	-	30/05/2024
Solid Particles	28	mg/m^3	-	30/05/2024
Temperature	120	degC	-	30/05/2024
Carbon dioxide	11.5	%	-	30/05/2024
Chlorine	0.033	mg/m^3	-	30/05/2024
Fluorine	14	mg/m^3	-	30/05/2024
Hydrogen chloride	15	mg/m^3	-	30/05/2024
Sulfuric acid mist and sulfur trioxide (as SO3)	1.6	mg/m^3	-	30/05/2024
Volatile organic compounds as n-propane equivalent	<0.07	mg/m^3	-	30/05/2024
Cadmium	<0.0004	mg/m^3	-	1/03/2024
Flow Rate	180	m^3/sec	-	1/03/2024
Mercury	0.00103	mg/m^3	-	1/03/2024
Moisture	6.5	%	-	1/03/2024
Oxygen	8.3	%	-	1/03/2024
Solid Particles	8.6	mg/m^3	-	1/03/2024
Temperature	96	degC	-	1/03/2024
Type 1 and Type 2 substances in Aggregate	<0.044	mg/m^3	-	1/03/2024
Carbon dioxide	11.4	%	-	1/03/2024

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

Name	Reading	Units	Licence Limit	Date
Flow Rate	310	m^3/sec	-	30/05/2024
Moisture	6.1	%	-	30/05/2024
Oxygen	6.2	%	-	30/05/2024
Solid Particles	19	mg/m^3	-	30/05/2024
Temperature	118	degC	-	30/05/2024
Carbon dioxide	13.7	%	-	30/05/2024
Cadmium	<0.0003	mg/m^3	-	1/03/2024
Flow Rate	450	m^3/sec	-	1/03/2024
Mercury	0.00102	mg/m^3	-	1/03/2024
Moisture	6.1	%	-	1/03/2024
Oxygen	8.7	%	-	1/03/2024
Solid Particles	23	mg/m^3	-	1/03/2024
Temperature	115	degC	-	1/03/2024
Type 1 and Type 2 substances in Aggregate	<0.047	mg/m^3	-	1/03/2024
Carbon dioxide	10.6	%	-	1/03/2024

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
ER2	17	0.7	0.4	1.1
ER4	18	0.4	0.4	0.8
ER6	19	0.9	0.8	1.7
U6	20	10.4	3.7	14.1

Water Quality - Lake Monitoring LM10

EPA Identification no. 27 - The waters of Lake Macquarie located midway between cooling water inlet and Hungary Point

Field Water Quality Recordings

Air Temp	Depth	Water Temp	pH	Salinity	Dissolved Oxygen		Secchi
^{0}C	m	^{0}C	pH unit	ppt	%	mg/L	m
26.06	0.5	25.47	8.18	33.20	99.0	6.70	4.25

Laboratory Analysis

Name	Reading	Units	Licence Limit	Date
Aluminium	0.04	mg/L	-	07/11/2024
Ammonia	<0.01	mg/L	-	07/11/2024
Arsenic III	<0.004	mg/L	-	07/11/2024
Arsenic V	<0.004	mg/L	-	07/11/2024
Cadmium	<0.0002	mg/L	-	07/11/2024
Chromium (Trivalent)	<0.001	mg/L	-	07/11/2024
Chromium (VI) Compounds	<0.001	mg/L	-	07/11/2024
Copper	<0.001	mg/L	-	07/11/2024
Iron	0.071	mg/L	-	07/11/2024
Lead	<0.0002	mg/L	-	07/11/2024
Manganese	0.0057	mg/L	-	07/11/2024
Nickel	<0.0005	mg/L	-	07/11/2024
pH	8.13	pH units	-	07/11/2024
Selenium	<0.002	mg/L	-	07/11/2024
Total Suspended Solids	<5	mg/L	-	07/11/2024
Vanadium	0.0022	mg/L	-	07/11/2024
Zinc	<0.005	mg/L	-	07/11/2024

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

Field Water Quality Recordings							
Air Temp	**Depth**	**Water Temp**	**pH**	**Salinity**	**Dissolved Oxygen**		**Secchi**
^{0}C	m	^{0}C	pH unit	ppt	%	mg/L	m
26.03	0.5	24.16	8.14	32.48	115.2	7.96	2.25

Laboratory Analysis				
Name	**Reading**	**Units**	**Licence Limit**	**Date**
Aluminium	0.022	mg/L	-	07/11/2024
Ammonia	<0.01	mg/L	-	07/11/2024
Arsenic III	<0.004	mg/L	-	07/11/2024
Arsenic V	<0.004	mg/L	-	07/11/2024
Cadmium	<0.0002	mg/L	-	07/11/2024
Chromium (Trivalent)	<0.001	mg/L	-	07/11/2024
Chromium (VI) Compounds	<0.001	mg/L	-	07/11/2024
Copper	<0.001	mg/L	-	07/11/2024
Iron	0.034	mg/L	-	07/11/2024
Lead	<0.0002	mg/L	-	07/11/2024
Manganese	0.0064	mg/L	-	07/11/2024
Nickel	0.0006	mg/L	-	07/11/2024
pH	8.1	pH units	-	07/11/2024
Selenium	<0.002	mg/L	-	07/11/2024
Total Suspended Solids	<5	mg/L	-	07/11/2024
Vanadium	0.0026	mg/L	-	07/11/2024
Zinc	<0.005	mg/L	-	07/11/2024

Water Quality - Lake Monitoring LM4

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

Field Water Quality Recordings							
Air Temp	**Depth**	**Water Temp**	**pH**	**Salinity**	**Dissolved Oxygen**		**Secchi**
^{0}C	m	^{0}C	pH unit	ppt	%	mg/L	m
23.85	0.5	23.46	8.20	34.25	117.1	8.18	3.75

Laboratory Analysis				
Name	**Reading**	**Units**	**Licence**	**Date**
Aluminium	0.012	mg/L	-	07/11/2024
Ammonia	<0.01	mg/L	-	07/11/2024
Arsenic III	<0.004	mg/L	-	07/11/2024
Arsenic V	<0.004	mg/L	-	07/11/2024
Cadmium	<0.0002	mg/L	-	07/11/2024
Chromium (Trivalent)	<0.001	mg/L	-	07/11/2024
Chromium (VI) Compounds	<0.001	mg/L	-	07/11/2024
Copper	<0.001	mg/L	-	07/11/2024
Iron	0.012	mg/L	-	07/11/2024
Lead	<0.0002	mg/L	-	07/11/2024
Manganese	0.0042	mg/L	-	07/11/2024
Nickel	<0.0005	mg/L	-	07/11/2024
pH	8.09	pH units	-	07/11/2024
Selenium	<0.002	mg/L	-	07/11/2024
Total Suspended Solids	<5	mg/L	-	07/11/2024
Vanadium	0.0019	mg/L	-	07/11/2024
Zinc	<0.005	mg/L	-	07/11/2024

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

Field Water Quality Recordings							
Air Temp	**Depth**	**Water Temp**	**pH**	**Salinity**	**Dissolved Oxygen**		**Secchi**
^{0}C	m	^{0}C	pH unit	ppt	%	mg/L	m
23.75	0.5	29.40	8.12	33.90	103.0	6.53	3.25

Laboratory Analysis				
Name	**Reading**	**Units**	**Licence Limits**	**Date**
Aluminium	0.036	mg/L	-	07/11/2024
Ammonia	<0.01	mg/L	-	07/11/2024
Arsenic III	<0.004	mg/L	-	07/11/2024
Arsenic V	<0.004	mg/L	-	07/11/2024
Cadmium	<0.0002	mg/L	-	07/11/2024
Chromium (Trivalent)	<0.001	mg/L	-	07/11/2024
Chromium (VI) Compounds	<0.001	mg/L	-	07/11/2024
Copper	<0.001	mg/L	-	07/11/2024
Iron	0.066	mg/L	-	07/11/2024
Lead	<0.0002	mg/L	-	07/11/2024
Manganese	0.0073	mg/L	-	07/11/2024
Nickel	<0.0005	mg/L	-	07/11/2024
pH	8.09	pH units	-	07/11/2024
Selenium	<0.002	mg/L	-	07/11/2024
Total Suspended Solids	<5	mg/L	-	07/11/2024
Vanadium	0.0022	mg/L	-	07/11/2024
Zinc	<0.005	mg/L	-	07/11/2024

Eraring Ash Dam Water Quality Monitoring

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

Name	Reading	Units	Licence Limit	Date
Aluminium	0.103	mg/L	-	07/11/2024
Ammonia	0.5	mg/L	-	07/11/2024
Arsenic III	<0.0005	mg/L	-	07/11/2024
Arsenic V	0.0088	mg/L	-	07/11/2024
Cadmium	0.00007	mg/L	-	07/11/2024
Chromium (Trivalent)	<0.001	mg/L	-	07/11/2024
Chromium (VI) Compounds	<0.01	mg/L	-	07/11/2024
Copper	0.0026	mg/L	-	07/11/2024
Iron	0.048	mg/L	-	07/11/2024
Lead	<0.0001	mg/L	-	07/11/2024
Manganese	0.0517	mg/L	-	07/11/2024
Nickel	0.0032	mg/L	-	07/11/2024
Nitrite and Nitrate as N	4.54	mg/L	-	07/11/2024
Nitrogen	5.5	mg/L	-	07/11/2024
pH	7.85	pH units	-	07/11/2024
Phosphorus as P	0.79	mg/L	-	07/11/2024
Reactive Phosphorus as P	0.66	mg/L	-	07/11/2024
Selenium	0.0335	mg/L	-	07/11/2024
Total Kjeldahl Nitrogen	1	mg/L	-	07/11/2024
Total Suspended Solids	10	mg/L	-	07/11/2024
Vanadium	0.0456	mg/L	-	07/11/2024
Zinc	0.004	mg/L	-	07/11/2024

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	0.064	mg/L	-	07/11/2024
Ammonia	0.02	mg/L	-	07/11/2024
Arsenic III	<0.0005	mg/L	-	07/11/2024
Arsenic V	0.0012	mg/L	-	07/11/2024
Cadmium	<0.0002	mg/L	-	07/11/2024
Chromium (Trivalent)	<0.001	mg/L	-	07/11/2024
Chromium (VI) Compounds	<0.01	mg/L	-	07/11/2024
Copper	0.0009	mg/L	-	07/11/2024
Iron	0.098	mg/L	-	07/11/2024
Lead	<0.0002	mg/L	-	07/11/2024
Manganese	0.0061	mg/L	-	07/11/2024
Nickel	<0.0005	mg/L	-	07/11/2024
pH	8.08	pH units	-	07/11/2024
Selenium	<0.001	mg/L	-	07/11/2024
Total Suspended Solids	31	mg/L	-	07/11/2024
Vanadium	0.0018	mg/L	-	07/11/2024
Zinc	<0.005	mg/L	-	07/11/2024
Dissolved Oxygen	6.22	mg/L	-	07/11/2024
Field Temperature	26.4	degC	-	07/11/2024
Salinity	36.96	ppt	-	07/11/2024
Secchi Disk	2.25	m	-	07/11/2024
Temperature – Average	24.99	deg C	-	November 24
Temperature – Minimum	22.98	deg C	-	November 24
Temperature - Maximum	28.12	deg C	-	November 24

Eraring Cooling Water Outlet Canal

EPA Identification no. 36 - Cooling water outlet canal to Myuna Bay

Name	Reading	Units	Licence Limit	Date
Copper	0.0012	mg/L	0.005	07/11/2024
Iron	0.086	mg/L	0.3	07/11/2024
Selenium	0.001	mg/L	0.002	07/11/2024

Eraring Cooling Water Outlet Canal

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

Name	Reading	Units	96.5% Limit	99.8% Limit	100% Limit	Date
Temperature – Average	32.04	deg C	35.5	37.5	38.5	November 24
Temperature – Minimum	25.72	deg C				November 24
Temperature - Maximum	36.80	deg C				November 24

Eraring Cooling Water Outlet Canal

EPA Identification no. 25 – Discharge from Ash Dam

Name	Reading	Units	Licence Limit	Date
Maximum Daily Discharge from Ash Dam	5.74	ML	150	November 24
Monthly Discharge from Ash Dam	49.34	ML	-	November 24

Emergency Discharge – Toe Drain Pond

EPA Identification no. 24 - Emergency discharge to toe drain collection pond.

Toe Drain Pond did not discharge in the month, background sampling only

Name	Reading	Units	Licence Limit	Date
Aluminium	0.064	mg/L	-	07/11/2024
Ammonia	2.19	mg/L	-	07/11/2024
Arsenic III	0.0064	mg/L	-	07/11/2024
Arsenic V	0.0019	mg/L	-	07/11/2024
Cadmium	<0.00005	mg/L	-	07/11/2024
Chromium (Trivalent)	<0.001	mg/L	-	07/11/2024
Chromium (VI) Compounds	<0.01	mg/L	-	07/11/2024
Copper	<0.0005	mg/L	-	07/11/2024
Iron	6.46	mg/L	-	07/11/2024
Lead	<0.0001	mg/L	-	07/11/2024
Manganese	0.828	mg/L	-	07/11/2024
Nickel	0.0026	mg/L	-	07/11/2024
Nitrite and Nitrate as N	0.037	mg/L	-	07/11/2024
Nitrogen	3.3	mg/L	-	07/11/2024
pH	6.91	pH units	6-9.5	07/11/2024
Phosphorus as P	0.552	mg/L	-	07/11/2024
Reactive Phosphorus as P	0.058	mg/L	-	07/11/2024
Selenium	0.0008	mg/L	-	07/11/2024
Total Kjeldahl Nitrogen	3.26	mg/L	-	07/11/2024
Total Suspended Solids	45	mg/L	50	07/11/2024
Vanadium	0.001	mg/L	-	07/11/2024
Zinc	0.002	mg/L	-	07/11/2024

MR217

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

MR217 Did not discharge and no background sample taken due to insufficient water.

Name	Reading	Units	Licence Limit	Date
Aluminium		mg/L	-	07/11/2024
Ammonia		mg/L	-	07/11/2024
Arsenic III		mg/L	-	07/11/2024
Arsenic V		mg/L	-	07/11/2024
Cadmium		mg/L	-	07/11/2024
Chromium (Trivalent)		mg/L	-	07/11/2024
Chromium (VI) Compounds		mg/L	-	07/11/2024
Copper		mg/L	-	07/11/2024
Iron		mg/L	-	07/11/2024
Lead		mg/L	-	07/11/2024
Manganese		mg/L	-	07/11/2024
Nickel		mg/L	-	07/11/2024
Nitrite and Nitrate as N		mg/L	-	07/11/2024
Nitrogen		mg/L	-	07/11/2024
pH		pH units	6-9.5	07/11/2024
Phosphorus as P		mg/L	-	07/11/2024
Reactive Phosphorus as P		mg/L	-	07/11/2024
Selenium		mg/L	-	07/11/2024
Total Kjeldahl Nitrogen		mg/L	-	07/11/2024
Total Suspended Solids		mg/L	50	07/11/2024
Vanadium		mg/L	-	07/11/2024
Zinc		mg/L	-	07/11/2024

Groundwater Monitoring
Groundwater Well – MW01

EPA Identification no. 32 – Groundwater Monitoring Well 01

Name	Reading	Units	Licence Limit	Date
Aluminium	0.109	mg/L	-	26/09/2024
Ammonia	0.06	mg/L	-	26/09/2024
Arsenic (III)	0.0008	mg/L	-	26/09/2024
Arsenic (V)	<0.0005	mg/L	-	26/09/2024
Cadmium	<0.00005	mg/L	-	26/09/2024
Calcium	2	mg/L	-	26/09/2024
Chromium (trivalent)	<0.01	mg/L	-	26/09/2024
Chromium (VI) compounds	<0.01	mg/L	-	26/09/2024
Copper	<0.0005	mg/L	-	26/09/2024
Electrical Conductivity	430	uS/cm	-	26/09/2024
Iron	0.837	mg/L	-	26/09/2024
Lead	0.0011	mg/L	-	26/09/2024
Magnesium	5	mg/L	-	26/09/2024
Manganese	0.164	mg/L	-	26/09/2024
Nickel	0.0054	mg/L	-	26/09/2024
pH	5.00	pH units	-	26/09/2024
Potassium	4	mg/L	-	26/09/2024
Selenium	<0.0002	mg/L	-	26/09/2024
Sodium	66	mg/L	-	26/09/2024
Standing Water Level	7.36	m	-	26/09/2024
Vanadium	0.0003	mg/L	-	26/09/2024
Zinc	0.044	mg/L	-	26/09/2024

Groundwater Monitoring
Groundwater Well – MW02

EPA Identification no. 33 – Groundwater Monitoring Well 02

Name	Reading	Units	Licence Limit	Date
Aluminium	0.330	mg/L	-	26/09/2024
Ammonia	5.60	mg/L	-	26/09/2024
Arsenic (III)	<0.004	mg/L	-	26/09/2024
Arsenic (V)	<0.004	mg/L	-	26/09/2024
Cadmium	<0.0002	mg/L	-	26/09/2024
Calcium	307	mg/L	-	26/09/2024
Chromium (trivalent)	<0.10	mg/L	-	26/09/2024
Chromium (VI) compounds	<0.10	mg/L	-	26/09/2024
Copper	0.002	mg/L	-	26/09/2024
Electrical Conductivity	23300	uS/cm	-	26/09/2024
Iron	16.200	mg/L	-	26/09/2024
Lead	0.0008	mg/L	-	26/09/2024
Magnesium	376	mg/L	-	26/09/2024
Manganese	0.856	mg/L	-	26/09/2024
Nickel	0.0010	mg/L	-	26/09/2024
pH	6.64	pH units	-	26/09/2024
Potassium	151	mg/L	-	26/09/2024
Selenium	<0.002	mg/L	-	26/09/2024
Sodium	4110	mg/L	-	26/09/2024
Standing Water Level	4.91	m	-	26/09/2024
Vanadium	0.0035	mg/L	-	26/09/2024
Zinc	0.014	mg/L	-	26/09/2024

Groundwater Monitoring
Groundwater Well – MW06

EPA Identification no. 34 – Groundwater Monitoring Well 06

Name	Reading	Units	Licence Limit	Date
Aluminium	0.061	mg/L	-	26/09/2024
Ammonia	3.25	mg/L	-	26/09/2024
Arsenic (III)	0.0046	mg/L	-	26/09/2024
Arsenic (V)	<0.0005	mg/L	-	26/09/2024
Cadmium	<0.0002	mg/L	-	26/09/2024
Calcium	471	mg/L	-	26/09/2024
Chromium (trivalent)	<0.10	mg/L	-	26/09/2024
Chromium (VI) compounds	<0.10	mg/L	-	26/09/2024
Copper	<0.001	mg/L	-	26/09/2024
Electrical Conductivity	20300	uS/cm	-	26/09/2024
Iron	14.0	mg/L	-	26/09/2024
Lead	0.0004	mg/L	-	26/09/2024
Magnesium	260	mg/L	-	26/09/2024
Manganese	0.422	mg/L	-	26/09/2024
Nickel	0.0012	mg/L	-	26/09/2024
pH	6.58	pH units	-	26/09/2024
Potassium	116	mg/L	-	26/09/2024
Selenium	<0.002	mg/L	-	26/09/2024
Sodium	3550	mg/L	-	26/09/2024
Standing Water Level	1.94	m	-	26/09/2024
Vanadium	0.0010	mg/L	-	26/09/2024
Zinc	0.030	mg/L	-	26/09/2024

Groundwater Monitoring
Groundwater Well – EGM/D26

EPA Identification no. 35 – Groundwater Monitoring Well D26
Groundwater well dry at time of sampling

Name	Reading	Units	Licence Limit	Date
Aluminium		mg/L	-	25/09/2024
Ammonia		mg/L	-	25/09/2024
Arsenic (III)		mg/L	-	25/09/2024
Arsenic (V)		mg/L	-	25/09/2024
Cadmium		mg/L	-	25/09/2024
Calcium		mg/L	-	25/09/2024
Chromium (trivalent)		mg/L	-	25/09/2024
Chromium (VI) compounds		mg/L	-	25/09/2024
Copper		mg/L	-	25/09/2024
Electrical Conductivity		uS/cm	-	25/09/2024
Iron		mg/L	-	25/09/2024
Lead		mg/L	-	25/09/2024
Magnesium		mg/L	-	25/09/2024
Manganese		mg/L	-	25/09/2024
Nickel		mg/L	-	25/09/2024
pH		pH units	-	25/09/2024
Potassium		mg/L	-	25/09/2024
Selenium		mg/L	-	25/09/2024
Sodium		mg/L	-	25/09/2024
Standing Water Level		m	-	25/09/2024
Vanadium		mg/L	-	25/09/2024
Zinc		mg/L	-	25/09/2024