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

Environmental Monitoring Data September 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 9, 10 and 12 September 2024
SO2 Unit Data Invalidated 28 September 2024
Unit 1A Offline 13 to 27 and 29 September 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
01/09/2024	386	431	324	773	846	639
02/09/2024	409	487	314	799	926	644
03/09/2024	435	500	374	630	881	450
04/09/2024	423	493	326	637	784	463
05/09/2024	348	403	300	933	1110	553
06/09/2024	321	377	285	841	932	784
07/09/2024	322	403	278	716	844	544
09/09/2024	314	369	269	584	668	478
09/09/2024	-	-	-	814	975	466
10/09/2024	-	-	-	779	855	675
11/09/2024	428	507	325	875	1079	578
12/09/2024	-	-	-	771	865	675
13/09/2024	-	-	-	-	-	-
14/09/2024	-	-	-	-	-	-
15/09/2024	-	-	-	-	-	-
16/09/2024	-	-	-	-	-	-
17/09/2024	-	-	-	-	-	-
18/09/2024	-	-	-	-	-	-
19/09/2024	-	-	-	-	-	-
20/09/2024	-	-	-	-	-	-
21/09/2024	-	-	-	-	-	-
22/09/2024	-	-	-	-	-	-
23/09/2024	-	-	-	-	-	-
24/09/2024	-	-	-	-	-	-
25/09/2024	-	-	-	-	-	-
26/09/2024	-	-	-	-	-	-
27/09/2024	-	-	-	-	-	-
28/09/2024	431	507	352	-	-	-
29/09/2024	-	-	-	-	-	-
30/09/2024	422	519	323	681	822	570

Unit 1B Boiler Continuous Emission Monitoring Summary

EPA Identification no.7 - Air emissions monitoring, Boiler 1 stack discharge to air
NOX Unit Data Invalidated 2, 4, 5 and 9 September 2024
Unit 1B Offline 13 to 27 September 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
01/09/2024	318	354	259	732	758	695
02/09/2024	-	-	-	786	847	716
03/09/2024	342	411	286	753	837	671
04/09/2024	-	-	-	768	798	750
05/09/2024	-	-	-	953	1010	830
06/09/2024	273	310	247	802	982	709
07/09/2024	273	333	240	711	765	666
09/09/2024	270	328	239	689	764	616
09/09/2024	-	-	-	778	835	722
10/09/2024	328	391	253	759	796	713
11/09/2024	352	434	280	793	843	715
12/09/2024	363	390	307	819	962	728
13/09/2024	-	-	-	-	-	-
14/09/2024	-	-	-	-	-	-
15/09/2024	-	-	-	-	-	-
16/09/2024	-	-	-	-	-	-
17/09/2024	-	-	-	-	-	-
18/09/2024	-	-	-	-	-	-
19/09/2024	-	-	-	-	-	-
20/09/2024	-	-	-	-	-	-
21/09/2024	-	-	-	-	-	-
22/09/2024	-	-	-	-	-	-
23/09/2024	-	-	-	-	-	-
24/09/2024	-	-	-	-	-	-
25/09/2024	-	-	-	-	-	-
26/09/2024	-	-	-	-	-	-
27/09/2024	-	-	-	-	-	-
28/09/2024	349	403	283	811	918	725
29/09/2024	330	381	259	723	766	670
30/09/2024	333	413	268	725	760	693

Unit 2A Boiler Continuous Emission Monitoring Summary

EPA Identification no. 9 - Air emissions monitoring, Boiler 2 stack discharge to air
Unit 2A Data Invalidated 11 September 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
01/09/2024	474	544	365	728	760	676
02/09/2024	453	498	395	782	852	710
03/09/2024	432	510	378	764	859	662
04/09/2024	422	481	365	793	842	743
05/09/2024	444	493	389	860	957	702
06/09/2024	443	501	373	783	885	684
07/09/2024	418	482	339	690	735	642
09/09/2024	360	429	305	738	803	665
09/09/2024	413	466	321	748	802	719
10/09/2024	395	458	323	781	820	743
11/09/2024	-	-	-	-	-	-
12/09/2024	413	486	323	780	869	701
13/09/2024	409	476	320	795	943	703
14/09/2024	408	449	320	877	988	741
15/09/2024	409	452	330	715	811	622
16/09/2024	421	447	347	752	911	649
17/09/2024	421	445	336	699	763	650
18/09/2024	433	482	360	807	887	754
19/09/2024	400	442	350	745	824	699
20/09/2024	367	456	302	784	886	717
21/09/2024	410	473	340	682	798	614
22/09/2024	392	437	316	713	797	627
23/09/2024	396	435	339	602	730	525
24/09/2024	412	499	316	707	887	500
25/09/2024	450	523	374	648	864	564
26/09/2024	453	510	395	700	825	595
27/09/2024	436	510	316	616	731	526
28/09/2024	434	520	309	803	949	663
29/09/2024	427	513	309	692	748	633
30/09/2024	425	506	352	744	778	695

Unit 2B Boiler Continuous Emission Monitoring Summary

EPA Identification no. 10 - Air emissions monitoring, Boiler 2 stack discharge to air
Unit 2B Data Invalidated 11, 16, 19, 20 and 25 September 2024
NOX Unit Data Invalidated 17 September 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
01/09/2024	507	621	374	728	775	672
02/09/2024	464	528	393	781	869	695
03/09/2024	436	507	374	760	835	672
04/09/2024	441	505	373	804	858	748
05/09/2024	429	503	388	869	965	717
06/09/2024	447	488	372	797	887	697
07/09/2024	429	512	328	696	759	638
09/09/2024	362	418	322	746	779	682
09/09/2024	393	431	304	752	791	722
10/09/2024	371	430	305	773	798	732
11/09/2024	-	-	-	-	-	-
12/09/2024	382	428	292	788	887	722
13/09/2024	393	453	293	794	926	707
14/09/2024	390	432	312	873	989	731
15/09/2024	380	427	303	739	846	662
16/09/2024	-	-	-	-	-	-
17/09/2024	-	-	-	712	772	669
18/09/2024	408	445	355	808	901	755
19/09/2024	-	-	-	-	-	-
20/09/2024	-	-	-	-	-	-
21/09/2024	406	502	336	673	752	614
22/09/2024	383	418	306	698	770	624
23/09/2024	408	478	328	591	711	529
24/09/2024	398	511	295	693	876	511
25/09/2024	-	-	-	-	-	-
26/09/2024	452	508	378	766	951	603
27/09/2024	404	451	286	613	735	537
28/09/2024	400	482	290	784	935	663
29/09/2024	396	441	307	665	714	617
30/09/2024	401	468	321	726	764	689

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

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

Unit 4A Boiler Continuous Emission Monitoring Summary

EPA Identification no. 13 - Air emissions monitoring, Boiler 4 stack discharge to air
Unit 4A Data Invalidated 5 and 6 September 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
01/09/2024	368	453	255	620	737	481
02/09/2024	348	431	277	641	822	510
03/09/2024	320	408	251	533	723	362
04/09/2024	317	422	254	529	774	313
05/09/2024	-	-	-	-	-	-
06/09/2024	-	-	-	-	-	-
07/09/2024	317	417	248	545	679	392
09/09/2024	307	439	256	505	696	385
09/09/2024	322	399	261	571	757	450
10/09/2024	300	352	252	555	756	398
11/09/2024	380	707	258	580	788	367
12/09/2024	306	353	250	546	734	374
13/09/2024	316	421	252	511	738	350
14/09/2024	322	407	247	643	913	309
15/09/2024	345	501	248	505	747	291
16/09/2024	353	495	264	526	812	300
17/09/2024	401	661	273	517	734	335
18/09/2024	388	589	280	621	846	387
19/09/2024	332	412	278	620	826	488
20/09/2024	321	416	262	629	853	492
21/09/2024	341	423	268	586	784	414
22/09/2024	354	427	296	597	769	405
23/09/2024	407	597	299	504	610	377
24/09/2024	335	431	252	525	714	329
25/09/2024	340	405	278	487	653	414
26/09/2024	320	498	253	460	605	296
27/09/2024	345	515	283	413	561	330
28/09/2024	359	498	287	561	816	363
29/09/2024	334	527	259	463	639	321
30/09/2024	311	407	263	499	633	391

Unit 4B Boiler Continuous Emission Monitoring Summary

EPA Identification no. 14 – Air emissions monitoring, Boiler 4 stack discharge to air
Unit 4B Data Invalidated 5 and 6 September 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
01/09/2024	409	459	339	743	801	667
02/09/2024	388	414	358	780	884	697
03/09/2024	386	478	340	760	859	645
04/09/2024	383	425	328	781	855	712
05/09/2024	-	-	-	-	-	-
06/09/2024	-	-	-	-	-	--
07/09/2024	343	384	245	682	752	590
09/09/2024	376	437	325	720	784	601
09/09/2024	378	410	344	754	837	691
10/09/2024	364	404	320	779	866	715
11/09/2024	446	762	333	792	951	720
12/09/2024	352	381	299	833	959	675
13/09/2024	379	422	323	826	897	776
14/09/2024	387	426	356	879	1013	688
15/09/2024	405	482	375	781	891	621
16/09/2024	449	571	393	744	888	642
17/09/2024	497	764	368	734	820	663
18/09/2024	454	571	384	810	943	727
19/09/2024	410	463	353	779	921	667
20/09/2024	414	463	342	793	945	681
21/09/2024	395	457	332	729	853	600
22/09/2024	423	465	379	756	859	614
23/09/2024	451	558	409	640	839	537
24/09/2024	418	479	336	697	913	516
25/09/2024	417	501	360	677	929	546
26/09/2024	401	478	354	732	917	579
27/09/2024	390	512	336	637	765	504
28/09/2024	385	487	327	835	1006	650
29/09/2024	378	513	312	705	745	643
30/09/2024	365	454	312	732	800	661

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	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	27/06/2023
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	10	18/04/2023
Cadmium	<0.0003	mg/m^3	0.2	27/02/2024
Mercury	<0.0003	mg/m^3	0.05	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	0.75	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	370	m3/sec		27/02/2024
Mercury	<0.0003	mg/m3		27/02/2024
Moisture	5.9	%		27/02/2024
Oxygen	7.4	%		27/02/2024
Solid Particles	12	mg/m3		27/02/2024
Temperature	121	degC		27/02/2024
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	330	m3/sec		27/02/2024
Mercury	<0.0003	mg/m3		27/02/2024
Moisture	5.1	%		27/02/2024
Oxygen	6.3	%		27/02/2024
Solid Particles	6.3	mg/m3		27/02/2024
Temperature	123	degC		27/02/2024
Type 1 and Type 2 substances in Aggregate	<0.017	mg/m3		27/02/2024
Carbon dioxide	13.1	12%		27/02/2024

Unit 2 Boiler Emission Test Results

EPA Identification no. 4 - Air emissions monitoring, Boiler 2 stack discharge to air

Name	Reading	Units	Licence	Date
Chlorine	<0.02	mg/m^3	20	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	10	3/05/2023
Cadmium	<0.0002	mg/m^3	0.2	28/02/2024
Mercury	0.00048	mg/m^3	0.05	28/02/2024
Solid Particles	19	mg/m3	50	28/02/2024
Type 1 and 2 substances in Aggregate	*	mg/m3	0.75	28/02/2024

**Repeat testing recommended*

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

Name	Reading	Units	Licence	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	20	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	10	19/04/2023
Cadmium	<0.0002	mg/m3	0.2	29/02/2024
Mercury	<0.0005	mg/m3	0.05	29/02/2024
Solid Particles	5.7	mg/m3	50	29/02/2024
Type 1 and 2 substances in Aggregate	<0.06	mg/m3	0.75	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	20	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	10	5/05/2023
Cadmium	<0.0003	mg/m3	0.2	1/03/2024
Mercury	0.00099	mg/m3	0.05	1/03/2024
Solid Particles	19	mg/m3	50	1/03/2024
Type 1 and 2 substances in Aggregate	<0.05	mg/m3	0.75	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	0.00093	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	0.00092	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	0.3	1.0
ER4	18	0.5	0.7	1.2
ER6	19	2.5	3.1	5.6
U6	20	1.5	1.2	2.7

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
18.56	0.5	18.16	7.99	33.97	99.6	7.65	2.75

Laboratory Analysis

Name	Reading	Units	Date
Aluminium	0.115	mg/L	5/09/2024
Ammonia	<0.010	mg/L	5/09/2024
Arsenic III	<4.0	mg/L	5/09/2024
Arsenic V	<4.0	mg/L	5/09/2024
Cadmium	<0.0002	mg/L	5/09/2024
Chromium (Trivalent)	<0.001	mg/L	5/09/2024
Chromium (VI) Compounds	<0.001	mg/L	5/09/2024
Copper	0.001	mg/L	5/09/2024
Iron	0.145	mg/L	5/09/2024
Lead	<0.0002	mg/L	5/09/2024
Manganese	0.0061	mg/L	5/09/2024
Nickel	<0.0005	mg/L	5/09/2024
pH	8.07	pH units	5/09/2024
Selenium	<0.002	mg/L	5/09/2024
Total Suspended Solids	<5	mg/L	5/09/2024
Vanadium	0.0024	mg/L	5/09/2024
Zinc	<0.005	mg/L	5/09/2024

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
19.46	0.5	18.79	8.02	33.79	104.3	7.95	3.75

Laboratory Analysis

Name	Reading	Units	Date
Aluminium	0.043	mg/L	5/09/2024
Ammonia	<0.010	mg/L	5/09/2024
Arsenic III	<4.0	mg/L	5/09/2024
Arsenic V	<4.0	mg/L	5/09/2024
Cadmium	<0.0002	mg/L	5/09/2024
Chromium (Trivalent)	<0.001	mg/L	5/09/2024
Chromium (VI) Compounds	<0.001	mg/L	5/09/2024
Copper	0.001	mg/L	5/09/2024
Iron	0.041	mg/L	5/09/2024
Lead	<0.0002	mg/L	5/09/2024
Manganese	0.004	mg/L	5/09/2024
Nickel	<0.0005	mg/L	5/09/2024
pH	8.1	pH units	5/09/2024
Selenium	<0.002	mg/L	5/09/2024
Total Suspended Solids	8	mg/L	5/09/2024
Vanadium	0.0024	mg/L	5/09/2024
Zinc	<0.005	mg/L	5/09/2024

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
17.59	0.5	17.84	8.05	34.56	105.1	8.12	6.25

Laboratory Analysis

Name	Reading	Units	Date
Aluminium	0.018	mg/L	5/09/2024
Ammonia	<0.010	mg/L	5/09/2024
Arsenic III	<4.0	mg/L	5/09/2024
Arsenic V	<4.0	mg/L	5/09/2024
Cadmium	<0.0002	mg/L	5/09/2024
Chromium (Trivalent)	<0.001	mg/L	5/09/2024
Chromium (VI) Compounds	<0.001	mg/L	5/09/2024
Copper	<0.001	mg/L	5/09/2024
Iron	0.016	mg/L	5/09/2024
Lead	<0.0002	mg/L	5/09/2024
Manganese	0.0027	mg/L	5/09/2024
Nickel	<0.0005	mg/L	5/09/2024
pH	8.13	pH units	5/09/2024
Selenium	<0.002	mg/L	5/09/2024
Total Suspended Solids	10	mg/L	5/09/2024
Vanadium	0.0018	mg/L	5/09/2024
Zinc	<0.005	mg/L	5/09/2024

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
17.76	0.5	20.22	7.97	34.07	111.2	8.21	3.25

Laboratory Analysis

Name	Reading	Units	Date
Aluminium	0.047	mg/L	5/09/2024
Ammonia	<0.010	mg/L	5/09/2024
Arsenic III	<4.0	mg/L	5/09/2024
Arsenic V	<4.0	mg/L	5/09/2024
Cadmium	<0.0002	mg/L	5/09/2024
Chromium (Trivalent)	<0.001	mg/L	5/09/2024
Chromium (VI) Compounds	<0.001	mg/L	5/09/2024
Copper	0.001	mg/L	5/09/2024
Iron	0.06	mg/L	5/09/2024
Lead	<0.0002	mg/L	5/09/2024
Manganese	0.0046	mg/L	5/09/2024
Nickel	<0.0005	mg/L	5/09/2024
pH	8.09	pH units	5/09/2024
Selenium	<0.002	mg/L	5/09/2024
Total Suspended Solids	<5	mg/L	5/09/2024
Vanadium	0.002	mg/L	5/09/2024
Zinc	<0.005	mg/L	5/09/2024

Eraring Ash Dam Quality Monitoring

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

Name	Reading	Units	Licence Limit	Date
Aluminium	0.164	mg/L	-	02/09/24
Ammonia	1.1	mg/L	-	02/09/24
Arsenic III	0.007	mg/L	-	02/09/24
Arsenic V	0.0035	mg/L	-	02/09/24
Cadmium	0.00045	mg/L	-	02/09/24
Chromium (Trivalent)	<0.001	mg/L	-	02/09/24
Chromium (VI) Compounds	<0.01	mg/L	-	02/09/24
Copper	0.0053	mg/L	-	02/09/24
Iron	0.382	mg/L	-	02/09/24
Lead	0.0003	mg/L	-	02/09/24
Manganese	0.239	mg/L	-	02/09/24
Nickel	0.0077	mg/L	-	02/09/24
Nitrite and Nitrate as N	8.15	mg/L	-	02/09/24
Nitrogen	10.2	mg/L	-	02/09/24
pH	7.32	pH units	-	02/09/24
Phosphorus as P	0.21	mg/L	-	02/09/24
Reactive Phosphorus as P	0.08	mg/L	-	02/09/24
Selenium	0.0403	mg/L	-	02/09/24
Total Kjeldahl Nitrogen	2	mg/L	-	02/09/24
Total Suspended Solids	20	mg/L	-	02/09/24
Vanadium	0.0348	mg/L	-	02/09/24
Zinc	0.032	mg/L	-	02/09/24

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	0.017	mg/L	-	02/09/24
Ammonia	0.006	mg/L	-	02/09/24
Arsenic III	<0.004	mg/L	-	02/09/24
Arsenic V	<0.004	mg/L	-	02/09/24
Cadmium	<0.0002	mg/L	-	02/09/24
Chromium (Trivalent)	<0.001	mg/L	-	02/09/24
Chromium (VI) Compounds	<0.01	mg/L	-	02/09/24
Copper	0.001	mg/L	-	02/09/24
Iron	0.025	mg/L	-	02/09/24
Lead	<0.0002	mg/L	-	02/09/24
Manganese	0.0037	mg/L	-	02/09/24
Nickel	<0.0005	mg/L	-	02/09/24
pH	8.1	pH units	-	02/09/24
Selenium	0.001	mg/L	-	02/09/24
Total Suspended Solids	28	mg/L	-	02/09/24
Vanadium	0.002	mg/L	-	02/09/24
Zinc	<0.005	mg/L	-	02/09/24
Dissolved Oxygen	6.85	mg/L	-	02/09/24
Field Temperature	18.5	degC	-	02/09/24
Salinity	34.87	ppt	-	02/09/24
Secchi Disk	2.75	m	-	02/09/24
Temperature – Average	20.70	deg C	-	September 24
Temperature – Minimum	17.11	deg C	-	September 24
Temperature - Maximum	24.97	deg C	-	September 24

Eraring Cooling Water Outlet Canal

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

Name	Reading	Units	Licence Limit	Date
Copper	0.0011	mg/L	0.005	02/09/24
Iron	0.076	mg/L	0.3	02/09/24
Selenium	<0.001	mg/L	0.002	02/09/24

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	26.94	deg C	35.5	37.5	38.5	September 24
Temperature – Minimum	19.58	deg C				September 24
Temperature - Maximum	34.66	deg C				September 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	4.53	ML	150	September 24
Monthly Discharge from Ash Dam	39.00	ML	-	September 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	0.024	mg/L	-	02/09/24
Ammonia	3.1	mg/L	-	02/09/24
Arsenic III	0.0035	mg/L	-	02/09/24
Arsenic V	<0.0005	mg/L	-	02/09/24
Cadmium	<0.00005	mg/L	-	02/09/24
Chromium (Trivalent)	<0.001	mg/L	-	02/09/24
Chromium (VI) Compounds	<0.01	mg/L	-	02/09/24
Copper	<0.0005	mg/L	-	02/09/24
Iron	9	mg/L	-	02/09/24
Lead	<0.0001	mg/L	-	02/09/24
Manganese	0.953	mg/L	-	02/09/24
Nickel	0.0028	mg/L	-	02/09/24
Nitrite and Nitrate as N	0.099	mg/L	-	02/09/24
Nitrogen	3.45	mg/L	-	02/09/24
pH	6.93	pH units	6-9.5	02/09/24
Phosphorus as P	0.354	mg/L	-	02/09/24
Reactive Phosphorus as P	0.018	mg/L	-	02/09/24
Selenium	0.0006	mg/L	-	02/09/24
Total Kjeldahl Nitrogen	3.35	mg/L	-	02/09/24
Total Suspended Solids	33	mg/L	50	02/09/24
Vanadium	0.0005	mg/L	-	02/09/24
Zinc	0.003	mg/L	-	02/09/24

MR217

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

MR217 was not sampled in the month, insufficient water.

Name	Reading	Units	Licence Limit	Date
Aluminium		mg/L	-	02/09/24
Ammonia		mg/L	-	02/09/24
Arsenic III		mg/L	-	02/09/24
Arsenic V		mg/L	-	02/09/24
Cadmium		mg/L	-	02/09/24
Chromium (Trivalent)		mg/L	-	02/09/24
Chromium (VI) Compounds		mg/L	-	02/09/24
Copper		mg/L	-	02/09/24
Iron		mg/L	-	02/09/24
Lead		mg/L	-	02/09/24
Manganese		mg/L	-	02/09/24
Nickel		mg/L	-	02/09/24
Nitrite and Nitrate as N		mg/L	-	02/09/24
Nitrogen		mg/L	-	02/09/24
pH		pH units	6-9.5	02/09/24
Phosphorus as P		mg/L	-	02/09/24
Reactive Phosphorus as P		mg/L	-	02/09/24
Selenium		mg/L	-	02/09/24
Total Kjeldahl Nitrogen		mg/L	-	02/09/24
Total Suspended Solids		mg/L	50	02/09/24
Vanadium		mg/L	-	02/09/24
Zinc		mg/L	-	02/09/24

Groundwater Monitoring
Groundwater Well – MW01

EPA Identification no. 32 – Groundwater Monitoring Well 01

Name	Reading	Units	Date
Aluminium	0.099	mg/L	26/09/24
Ammonia	0.06	mg/L	26/09/24
Arsenic (III)	0.0008	mg/L	26/09/24
Arsenic (V)	<0.0005	mg/L	26/09/24
Cadmium	<0.00005	mg/L	26/09/24
Calcium	2	mg/L	26/09/24
Chromium (trivalent)	<0.01	mg/L	26/09/24
Chromium (VI) compounds	<0.01	mg/L	26/09/24
Copper	<0.0005	mg/L	26/09/24
Electrical Conductivity	430	uS/cm	26/09/24
Iron	0.837	mg/L	26/09/24
Lead	0.0011	mg/L	26/09/24
Magnesium	5	mg/L	26/09/24
Manganese	0.164	mg/L	26/09/24
Nickel	0.0054	mg/L	26/09/24
pH	5.00	pH units	26/09/24
Potassium	4	mg/L	26/09/24
Selenium	<0.0002	mg/L	26/09/24
Sodium	66	mg/L	26/09/24
Standing Water Level	7.36	m	26/09/24
Vanadium	0.0003	mg/L	26/09/24
Zinc	0.044	mg/L	26/09/24

Groundwater Monitoring
Groundwater Well – MW02

EPA Identification no. 33 – Groundwater Monitoring Well 02

Name	Reading	Units	Date
Aluminium	0.330	mg/L	26/09/24
Ammonia	5.60	mg/L	26/09/24
Arsenic (III)	<0.004	mg/L	26/09/24
Arsenic (V)	<0.004	mg/L	26/09/24
Cadmium	<0.0002	mg/L	26/09/24
Calcium	307	mg/L	26/09/24
Chromium (trivalent)	<0.10	mg/L	26/09/24
Chromium (VI) compounds	<0.10	mg/L	26/09/24
Copper	0.002	mg/L	26/09/24
Electrical Conductivity	23300	uS/cm	26/09/24
Iron	16.200	mg/L	26/09/24
Lead	0.0008	mg/L	26/09/24
Magnesium	376	mg/L	26/09/24
Manganese	0.856	mg/L	26/09/24
Nickel	0.0009	mg/L	26/09/24
pH	6.64	pH units	26/09/24
Potassium	151	mg/L	26/09/24
Selenium	<0.002	mg/L	26/09/24
Sodium	4110	mg/L	26/09/24
Standing Water Level	4.91	m	26/09/24
Vanadium	0.0035	mg/L	26/09/24
Zinc	0.014	mg/L	26/09/24

Groundwater Monitoring
Groundwater Well – MW06

EPA Identification no. 34 – Groundwater Monitoring Well 06

Name	Reading	Units	Date
Aluminium	0.061	mg/L	26/09/24
Ammonia	3.25	mg/L	26/09/24
Arsenic (III)	0.0046	mg/L	26/09/24
Arsenic (V)	<0.0005	mg/L	26/09/24
Cadmium	<0.0002	mg/L	26/09/24
Calcium	471	mg/L	26/09/24
Chromium (trivalent)	<0.10	mg/L	26/09/24
Chromium (VI) compounds	<0.10	mg/L	26/09/24
Copper	<0.001	mg/L	26/09/24
Electrical Conductivity	20300	uS/cm	26/09/24
Iron	14.0	mg/L	26/09/24
Lead	0.0004	mg/L	26/09/24
Magnesium	260	mg/L	26/09/24
Manganese	0.422	mg/L	26/09/24
Nickel	0.0012	mg/L	26/09/24
pH	6.58	pH units	26/09/24
Potassium	116	mg/L	26/09/24
Selenium	<0.002	mg/L	26/09/24
Sodium	3550	mg/L	26/09/24
Standing Water Level	1.94	m	26/09/24
Vanadium	0.0009	mg/L	26/09/24
Zinc	0.030	mg/L	26/09/24

Groundwater Monitoring
Groundwater Well – EGM/D26

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

Name	Reading	Units	Date
Aluminium		mg/L	25/09/24
Ammonia		mg/L	25/09/24
Arsenic (III)		mg/L	25/09/24
Arsenic (V)		mg/L	25/09/24
Cadmium		mg/L	25/09/24
Calcium		mg/L	25/09/24
Chromium (trivalent)		mg/L	25/09/24
Chromium (VI) compounds		mg/L	25/09/24
Copper		mg/L	25/09/24
Electrical Conductivity		uS/cm	25/09/24
Iron		mg/L	25/09/24
Lead		mg/L	25/09/24
Magnesium		mg/L	25/09/24
Manganese		mg/L	25/09/24
Nickel		mg/L	25/09/24
pH		pH units	25/09/24
Potassium		mg/L	25/09/24
Selenium		mg/L	25/09/24
Sodium		mg/L	25/09/24
Standing Water Level		m	25/09/24
Vanadium		mg/L	25/09/24
Zinc		mg/L	25/09/24