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

Environmental Monitoring Data July 2024



Unit 1A Boiler Continuous Emission Monitoring Summary

EPA Identification no.7 - Air emissions monitoring, Boiler 1 stack discharge to air
Unit 1A Data Invalidated 18 and 24 July 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
1 July	432	505	393	552	707	443
2 July	414	439	377	598	762	453
3 July	390	435	326	523	606	398
4 July	355	371	328	405	501	337
5 July	375	408	329	383	443	256
6 July	373	401	342	403	516	217
7 July	372	396	322	433	514	292
8 July	382	410	357	504	608	363
9 July	383	436	341	536	621	471
10 July	401	453	338	533	573	450
11 July	366	428	316	551	679	333
12 July	329	422	292	613	744	443
13 July	393	446	348	618	721	533
14 July	375	437	313	533	620	459
15 July	385	428	343	552	658	466
16 July	396	447	360	589	655	500
17 July	406	448	335	714	883	618
18 July	-	-	-	-	-	-
19 July	415	452	333	678	755	620
20 July	368	420	309	814	1139	611
21 July	369	413	279	667	801	576
22 July	364	416	236	615	744	488
23 July	386	432	314	665	842	538
24 July	-	-	-	-	-	-
25 July	433	517	359	891	1140	665
26 July	407	461	325	859	982	662
27 July	413	445	357	856	962	740
28 July	401	461	343	795	941	662
29 July	411	469	334	742	860	605
30 July	397	436	338	672	725	554
31 July	384	435	337	724	836	551

Unit 1B Boiler Continuous Emission Monitoring Summary

EPA Identification no.7 - Air emissions monitoring, Boiler 1 stack discharge to air
Unit 1B Data Invalidated 18 and 24 July 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
1 July	347	406	306	772	905	610
2 July	333	374	296	838	1026	688
3 July	316	344	281	793	955	688
4 July	289	308	274	726	768	668
5 July	300	333	278	714	750	686
6 July	299	353	281	775	868	713
7 July	291	321	267	801	853	749
8 July	307	325	263	767	847	728
9 July	318	375	274	771	874	703
10 July	338	435	283	744	840	716
11 July	298	334	262	785	857	748
12 July	273	337	252	871	953	769
13 July	318	354	295	808	896	749
14 July	295	334	256	687	783	650
15 July	319	360	286	712	849	624
16 July	322	376	270	723	813	674
17 July	339	384	271	852	1096	718
18 July	-	-	-	-	-	-
19 July	336	368	279	778	841	710
20 July	319	348	259	920	1092	802
21 July	325	390	248	747	829	669
22 July	332	390	221	696	794	644
23 July	332	370	267	743	868	671
24 July	-	-	-	-	-	-
25 July	326	370	280	917	1069	750
26 July	321	357	266	891	970	787
27 July	326	363	275	940	1016	849
28 July	321	386	263	900	1003	823
29 July	345	389	280	815	943	699
30 July	336	375	279	784	885	687
31 July	312	352	266	876	919	805

Unit 2A Boiler Continuous Emission Monitoring Summary

EPA Identification no. 9 - Air emissions monitoring, Boiler 2 stack discharge to air
Unit 2A Data Invalidated 18 and 24 July 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
1 July	429	466	390	542	637	447
2 July	385	465	327	525	632	459
3 July	392	434	334	580	729	465
4 July	406	451	365	556	648	447
5 July	430	483	375	576	670	528
6 July	434	459	375	630	694	586
7 July	433	491	374	638	725	549
8 July	434	489	355	661	788	587
9 July	461	525	380	639	749	569
10 July	466	504	397	574	638	528
11 July	424	467	314	631	763	552
12 July	397	492	291	689	890	585
13 July	406	474	332	632	749	578
14 July	402	448	323	591	676	522
15 July	408	457	336	626	741	533
16 July	454	527	377	611	701	567
17 July	404	474	313	712	783	637
18 July	-	-	-	-	-	-
19 July	420	469	334	672	754	583
20 July	395	475	323	756	950	600
21 July	397	431	328	692	813	596
22 July	395	431	359	598	707	534
23 July	388	440	326	662	805	537
24 July	-	-	-	-	-	-
25 July	399	444	355	854	1033	666
26 July	395	462	346	741	835	635
27 July	394	454	356	713	798	629
28 July	428	564	342	787	932	668
29 July	404	430	363	657	833	569
30 July	391	457	357	664	738	581
31 July	415	485	353	780	941	701

Unit 2B Boiler Continuous Emission Monitoring Summary

EPA Identification no. 10 - Air emissions monitoring, Boiler 2 stack discharge to air
Unit 2 B Data Invalidated 18 and 24 July 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
1 July	506	548	455	678	757	634
2 July	429	492	347	779	867	690
3 July	459	536	394	742	898	659
4 July	452	517	381	676	732	634
5 July	491	531	419	675	728	646
6 July	461	494	404	696	801	642
7 July	458	508	362	682	810	576
8 July	484	586	345	728	799	681
9 July	532	606	421	748	891	679
10 July	518	578	412	649	760	621
11 July	472	542	351	720	757	652
12 July	459	566	291	796	881	706
13 July	451	552	340	722	765	674
14 July	446	525	317	664	692	619
15 July	446	542	364	697	869	626
16 July	515	583	397	682	754	639
17 July	427	516	328	782	906	707
18 July	-	-	-	-	-	-
19 July	438	483	383	711	765	666
20 July	417	492	326	814	936	688
21 July	424	478	325	747	818	666
22 July	414	477	353	648	752	596
23 July	406	476	344	706	803	621
24 July	-	-	-	-	-	-
25 July	423	486	381	904	1034	753
26 July	436	471	350	831	903	734
27 July	453	497	399	823	922	721
28 July	446	537	350	859	963	737
29 July	463	510	391	756	900	654
30 July	409	479	368	729	803	672
31 July	426	483	387	835	965	770

Unit 3A Boiler Continuous Emission Monitoring Summary

EPA Identification no. 11 - Air emissions monitoring, Boiler 3 stack discharge to air
Unit 3A Data Invalidated 15 July 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
1 July	377	417	299	709	805	624
2 July	354	383	334	813	1002	662
3 July	329	423	277	808	940	723
4 July	371	424	302	717	779	639
5 July	379	412	313	708	779	680
6 July	381	415	287	778	887	721
7 July	391	451	261	808	879	739
8 July	415	469	378	774	842	722
9 July	383	439	289	783	869	723
10 July	356	402	272	760	824	688
11 July	365	406	292	779	822	711
12 July	385	418	341	841	892	759
13 July	353	434	276	811	891	771
14 July	317	386	254	735	860	682
15 July	-	-	-	-	-	-
16 July	378	441	315	733	783	707
17 July	375	423	275	808	951	751
18 July	366	420	286	866	1007	760
19 July	365	423	286	758	778	736
20 July	414	579	295	965	1056	750
21 July	381	429	297	812	958	750
22 July	385	441	269	745	820	685
23 July	363	431	262	790	890	715
24 July	374	426	276	848	935	767
25 July	372	426	271	883	1038	751
26 July	377	422	301	880	950	749
27 July	387	453	289	873	951	801
28 July	402	505	325	966	1040	877
29 July	377	433	295	858	1020	779
30 July	371	410	273	787	891	737
31 July	372	420	293	889	930	848

Unit 3B Boiler Continuous Emission Monitoring Summary

EPA Identification no. 12 - Air emissions monitoring, Boiler 3 stack discharge to air
Unit 3B Data Invalidated 30 July 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
1 July	352	384	295	605	687	519
2 July	325	354	309	679	848	559
3 July	285	379	241	692	790	606
4 July	339	390	282	617	689	545
5 July	340	369	288	607	741	569
6 July	365	402	291	669	746	605
7 July	367	418	254	702	772	655
8 July	394	419	368	673	722	621
9 July	357	396	283	679	762	615
10 July	328	388	255	650	747	579
11 July	346	392	288	676	737	629
12 July	358	390	316	717	769	648
13 July	330	404	259	732	784	674
14 July	285	344	232	636	695	565
15 July	310	378	248	629	732	569
16 July	345	395	301	644	716	593
17 July	341	391	260	687	797	633
18 July	332	377	261	749	851	632
19 July	333	381	273	642	730	611
20 July	367	473	264	843	1006	650
21 July	340	400	268	708	818	633
22 July	343	388	238	624	677	574
23 July	329	383	247	674	846	585
24 July	334	408	244	730	894	646
25 July	333	381	240	748	938	637
26 July	332	369	265	748	849	669
27 July	331	371	261	735	783	649
28 July	352	426	283	834	968	723
29 July	334	368	268	711	796	643
30 July	-	-	-	-	-	-
31 July	342	375	274	752	814	702

Unit 4A Boiler Continuous Emission Monitoring Summary

EPA Identification no. 13 - Air emissions monitoring, Boiler 4 stack discharge to air
Unit 4A Offline 3-6 July 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
1 July	267	370	209	482	683	411
2 July	246	363	201	555	910	430
3 July	-	-	-	-	-	-
4 July	-	-	-	-	-	-
5 July	-	-	-	-	-	-
6 July	-	-	-	-	-	-
7 July	324	501	206	514	777	338
8 July	245	284	225	435	619	289
9 July	266	371	236	473	574	413
10 July	274	359	233	437	557	372
11 July	264	390	237	458	559	412
12 July	252	326	223	565	802	445
13 July	272	352	206	528	753	420
14 July	236	315	206	440	603	362
15 July	236	303	210	441	529	362
16 July	256	363	224	438	534	403
17 July	243	333	217	544	708	423
18 July	259	399	227	542	886	441
19 July	263	368	219	499	603	454
20 July	268	376	209	652	969	462
21 July	289	409	215	573	777	388
22 July	292	528	217	439	588	371
23 July	256	362	197	486	673	378
24 July	248	346	201	584	881	413
25 July	269	381	200	725	1099	489
26 July	261	373	192	648	955	487
27 July	261	349	209	577	703	483
28 July	297	444	229	652	825	522
29 July	298	567	207	528	763	427
30 July	276	439	214	515	715	411
31 July	264	397	215	602	880	450

Unit 4B Boiler Continuous Emission Monitoring Summary

EPA Identification no. 14 – Air emissions monitoring, Boiler 4 stack discharge to air
Unit 4B Data Offline 3- 6 July 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
1 July	344	372	307	714	860	593
2 July	324	378	265	803	1125	676
3 July	-	-	-	-	-	-
4 July	-	-	-	-	-	-
5 July	-	-	-	-	-	-
6 July	-	-	-	-	-	-
7 July	320	399	231	667	831	346
8 July	358	389	326	731	857	657
9 July	373	399	326	758	877	681
10 July	354	380	313	665	808	585
11 July	359	398	321	717	794	658
12 July	334	372	291	829	954	739
13 July	344	390	312	762	854	688
14 July	329	347	302	661	726	608
15 July	329	366	294	678	770	609
16 July	377	401	356	673	739	623
17 July	360	397	323	796	1028	638
18 July	358	454	311	805	1099	692
19 July	363	409	330	750	830	690
20 July	371	454	324	913	1128	743
21 July	370	463	317	766	862	628
22 July	376	593	310	623	695	583
23 July	336	391	298	682	749	590
24 July	337	406	288	824	991	674
25 July	360	445	304	964	1180	765
26 July	335	433	278	878	1026	738
27 July	360	414	327	851	959	791
28 July	368	501	310	879	976	804
29 July	373	630	312	750	934	680
30 July	354	458	305	728	834	565
31 July	356	433	317	857	1013	716

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	0.00089	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	0.00083	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	0.5	<0.1	0.5
ER4	18	0.2	0.1	0.3
ER6	19	0.2	<0.1	0.2
U6	20	1.1	1.3	2.4

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
17.84	0.5	17.6	8.01	32.4	95.6	8.19	2.75

Laboratory Analysis

Name	Reading	Units	Date
Aluminium	0.051	mg/L	2/07/24
Ammonia	<0.01	mg/L	2/07/24
Arsenic III	<4	mg/L	2/07/24
Arsenic V	<4	mg/L	2/07/24
Cadmium	<0.0002	mg/L	2/07/24
Chromium (Trivalent)	<0.001	mg/L	2/07/24
Chromium (VI) Compounds	<0.001	mg/L	2/07/24
Copper	<0.001	mg/L	2/07/24
Iron	0.05	mg/L	2/07/24
Lead	<0.0002	mg/L	2/07/24
Manganese	0.0043	mg/L	2/07/24
Nickel	<0.0005	mg/L	2/07/24
pH	8.08	pH units	2/07/24
Selenium	<0.002	mg/L	2/07/24
Total Suspended Solids	11	mg/L	2/07/24
Vanadium	0.0018	mg/L	2/07/24
Zinc	<0.005	mg/L	2/07/24

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
18.21	0.5	19.6	8.1	31.8	99.1	9.48	3.75

Laboratory Analysis

Name	Reading	Units	Date
Aluminium	0.082	mg/L	2/07/24
Ammonia	0.018	mg/L	2/07/24
Arsenic III	<4	mg/L	2/07/24
Arsenic V	<4	mg/L	2/07/24
Cadmium	<0.0002	mg/L	2/07/24
Chromium (Trivalent)	<0.001	mg/L	2/07/24
Chromium (VI) Compounds	<0.001	mg/L	2/07/24
Copper	0.001	mg/L	2/07/24
Iron	0.062	mg/L	2/07/24
Lead	<0.0002	mg/L	2/07/24
Manganese	0.0137	mg/L	2/07/24
Nickel	<0.0005	mg/L	2/07/24
pH	8.04	pH units	2/07/24
Selenium	<0.002	mg/L	2/07/24
Total Suspended Solids	26	mg/L	2/07/24
Vanadium	0.0022	mg/L	2/07/24
Zinc	<0.005	mg/L	2/07/24

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
12.49	0.5	15.35	8.27	32.1	103	8.19	4.25

Laboratory Analysis

Name	Reading	Units	Date
Aluminium	0.01	mg/L	02/07/24
Ammonia	<0.01	mg/L	02/07/24
Arsenic III	<4	mg/L	02/07/24
Arsenic V	<4	mg/L	02/07/24
Cadmium	<0.0002	mg/L	02/07/24
Chromium (Trivalent)	<0.001	mg/L	02/07/24
Chromium (VI) Compounds	<0.001	mg/L	02/07/24
Copper	<0.001	mg/L	02/07/24
Iron	<0.005	mg/L	02/07/24
Lead	<0.0002	mg/L	02/07/24
Manganese	0.0023	mg/L	02/07/24
Nickel	<0.0005	mg/L	02/07/24
pH	8.13	pH units	02/07/24
Selenium	<0.002	mg/L	02/07/24
Total Suspended Solids	18	mg/L	02/07/24
Vanadium	0.0016	mg/L	02/07/24
Zinc	<0.005	mg/L	02/07/24

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
13.76	0.5	19.75	8.16	31.4	104.1	7.71	2.25

Laboratory Analysis

Name	Reading	Units	Date
Aluminium	0.028	mg/L	02/07/24
Ammonia	<0.01	mg/L	02/07/24
Arsenic III	<4	mg/L	02/07/24
Arsenic V	<4	mg/L	02/07/24
Cadmium	<0.0002	mg/L	02/07/24
Chromium (Trivalent)	<0.001	mg/L	02/07/24
Chromium (VI) Compounds	<0.001	mg/L	02/07/24
Copper	0.001	mg/L	02/07/24
Iron	0.029	mg/L	02/07/24
Lead	<0.0002	mg/L	02/07/24
Manganese	0.0037	mg/L	02/07/24
Nickel	<0.0005	mg/L	02/07/24
pH	8.11	pH units	02/07/24
Selenium	<0.002	mg/L	02/07/24
Total Suspended Solids	12	mg/L	02/07/24
Vanadium	0.002	mg/L	02/07/24
Zinc	<0.005	mg/L	02/07/24

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	0.161	mg/L	-	04/07/24
Ammonia	1.61	mg/L	-	04/07/24
Arsenic III	<0.0005	mg/L	-	04/07/24
Arsenic V	0.0092	mg/L	-	04/07/24
Cadmium	<0.00005	mg/L	-	04/07/24
Chromium (Trivalent)	<0.001	mg/L	-	04/07/24
Chromium (VI) Compounds	<0.01	mg/L	-	04/07/24
Copper	0.0049	mg/L	-	04/07/24
Iron	0.068	mg/L	-	04/07/24
Lead	<0.0001	mg/L	-	04/07/24
Manganese	0.133	mg/L	-	04/07/24
Nickel	0.0032	mg/L	-	04/07/24
Nitrite and Nitrate as N	5.46	mg/L	-	04/07/24
Nitrogen	7.7	mg/L	-	04/07/24
pH	7.7	pH units	-	04/07/24
Phosphorus as P	0.31	mg/L	-	04/07/24
Reactive Phosphorus as P	0.25	mg/L	-	04/07/24
Selenium	0.0368	mg/L	-	04/07/24
Total Kjeldahl Nitrogen	2.2	mg/L	-	04/07/24
Total Suspended Solids	5	mg/L	-	04/07/24
Vanadium	0.0617	mg/L	-	04/07/24
Zinc	0.014	mg/L	-	04/07/24

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	0.071	mg/L	-	04/07/24
Ammonia	<0.005	mg/L	-	04/07/24
Arsenic III	<0.004	mg/L	-	04/07/24
Arsenic V	<0.004	mg/L	-	04/07/24
Cadmium	<0.0002	mg/L	-	04/07/24
Chromium (Trivalent)	<0.001	mg/L	-	04/07/24
Chromium (VI) Compounds	<0.01	mg/L	-	04/07/24
Copper	0.0006	mg/L	-	04/07/24
Iron	0.095	mg/L	-	04/07/24
Lead	<0.0002	mg/L	-	04/07/24
Manganese	0.0042	mg/L	-	04/07/24
Nickel	<0.0005	mg/L	-	04/07/24
pH	8.1	pH units	-	04/07/24
Selenium	<0.001	mg/L	-	04/07/24
Total Suspended Solids	24	mg/L	-	04/07/24
Vanadium	0.0021	mg/L	-	04/07/24
Zinc	<0.005	mg/L	-	04/07/24
Dissolved Oxygen	7.88	mg/L	-	04/07/24
Field Temperature	15.3	degC	-	04/07/24
Salinity	32.45	ppt	-	04/07/24
Secchi Disk	2.75	m	-	04/07/24
Temperature – Average	15.41	deg C	-	July 24
Temperature – Minimum	13.52	deg C	-	July 24
Temperature - Maximum	17.08	deg C	-	July 24

Eraring Cooling Water Outlet Canal

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

Name	Reading	Units	Licence Limit	Date
Copper	0.0008	mg/L	0.005	04/07/24
Iron	0.088	mg/L	0.3	04/07/24
Selenium	<0.001	mg/L	0.002	04/07/24

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	24.16	deg C	35.5	37.5	38.5	July 24
Temperature – Minimum	14.96	deg C				July 24
Temperature - Maximum	27.33	deg C				July 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	6.69	ML	150	July 24
Monthly Discharge from Ash Dam	36.64	ML	-	July 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, back ground sampling only

Name	Reading	Units	Licence Limit	Date
Aluminium	0.39	mg/L	-	04/07/24
Ammonia	2.58	mg/L	-	04/07/24
Arsenic III	0.0011	mg/L	-	04/07/24
Arsenic V	0.0024	mg/L	-	04/07/24
Cadmium	<0.00005	mg/L	-	04/07/24
Chromium (Trivalent)	<0.001	mg/L	-	04/07/24
Chromium (VI) Compounds	<0.01	mg/L	-	04/07/24
Copper	<0.0005	mg/L	-	04/07/24
Iron	7.94	mg/L	-	04/07/24
Lead	0.0002	mg/L	-	04/07/24
Manganese	0.915	mg/L	-	04/07/24
Nickel	0.0026	mg/L	-	04/07/24
Nitrite and Nitrate as N	0.177	mg/L	-	04/07/24
Nitrogen	2.43	mg/L	-	04/07/24
pH	6.89	pH units	6-9.5	04/07/24
Phosphorus as P	0.326	mg/L	-	04/07/24
Reactive Phosphorus as P	0.019	mg/L	-	04/07/24
Selenium	0.0003	mg/L	-	04/07/24
Total Kjeldahl Nitrogen	2.25	mg/L	-	04/07/24
Total Suspended Solids	34	mg/L	50	04/07/24
Vanadium	0.0012	mg/L	-	04/07/24
Zinc	0.004	mg/L	-	04/07/24

MR217

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

MR217 did not discharge in the month, back ground sampling only

Name	Reading	Units	Licence Limit	Date
Aluminium	2.37	mg/L	-	04/07/24
Ammonia	0.021	mg/L	-	04/07/24
Arsenic III	<0.0005	mg/L	-	04/07/24
Arsenic V	<0.0005	mg/L	-	04/07/24
Cadmium	<0.00005	mg/L	-	04/07/24
Chromium (Trivalent)	<0.001	mg/L	-	04/07/24
Chromium (VI) Compounds	<0.01	mg/L	-	04/07/24
Copper	0.002	mg/L	-	04/07/24
Iron	2.23	mg/L	-	04/07/24
Lead	0.0016	mg/L	-	04/07/24
Manganese	0.0258	mg/L	-	04/07/24
Nickel	0.0017	mg/L	-	04/07/24
Nitrite and Nitrate as N	0.015	mg/L	-	04/07/24
Nitrogen	0.62	mg/L	-	04/07/24
pH	6.71	pH units	6-9.5	04/07/24
Phosphorus as P	0.062	mg/L	-	04/07/24
Reactive Phosphorus as P	0.003	mg/L	-	04/07/24
Selenium	0.0003	mg/L	-	04/07/24
Total Kjeldahl Nitrogen	0.6	mg/L	-	04/07/24
Total Suspended Solids	30	mg/L	50	04/07/24
Vanadium	0.0038	mg/L	-	04/07/24
Zinc	0.01	mg/L	-	04/07/24

Groundwater Monitoring
Groundwater Well – MW01

EPA Identification no. 32 – Groundwater Monitoring Well 01

Name	Reading	Units	Date
Aluminium	0.134	mg/L	11/06/24
Ammonia	0.74	mg/L	11/06/24
Arsenic (III)	0.0048	mg/L	11/06/24
Arsenic (V)	<0.0005	mg/L	11/06/24
Cadmium	<0.00005	mg/L	11/06/24
Calcium	2	mg/L	11/06/24
Chromium (trivalent)	<0.01	mg/L	11/06/24
Chromium (VI) compounds	<0.01	mg/L	11/06/24
Copper	0.0005	mg/L	11/06/24
Electrical Conductivity	420	uS/cm	11/06/24
Iron	2.89	mg/L	11/06/24
Lead	0.0005	mg/L	11/06/24
Magnesium	6	mg/L	11/06/24
Manganese	0.352	mg/L	11/06/24
Nickel	0.0065	mg/L	11/06/24
pH	5.45	pH units	11/06/24
Potassium	5	mg/L	11/06/24
Selenium	<0.0002	mg/L	11/06/24
Sodium	69	mg/L	11/06/24
Standing Water Level	6.69	m	11/06/24
Vanadium	0.0006	mg/L	11/06/24
Zinc	0.013	mg/L	11/06/24

Groundwater Monitoring
Groundwater Well – MW02

EPA Identification no. 33 – Groundwater Monitoring Well 02

Name	Reading	Units	Date
Aluminium	0.643	mg/L	06/06/24
Ammonia	5.73	mg/L	06/06/24
Arsenic (III)	0.0021	mg/L	06/06/24
Arsenic (V)	<0.0005	mg/L	06/06/24
Cadmium	<0.0005	mg/L	06/06/24
Calcium	312	mg/L	06/06/24
Chromium (trivalent)	<0.01	mg/L	06/06/24
Chromium (VI) compounds	<0.01	mg/L	06/06/24
Copper	0.0018	mg/L	06/06/24
Electrical Conductivity	25400	uS/cm	06/06/24
Iron	21.2	mg/L	06/06/24
Lead	0.002	mg/L	06/06/24
Magnesium	460	mg/L	06/06/24
Manganese	0.855	mg/L	06/06/24
Nickel	0.001	mg/L	06/06/24
pH	6.48	pH units	06/06/24
Potassium	162	mg/L	06/06/24
Selenium	0.0008	mg/L	06/06/24
Sodium	4810	mg/L	06/06/24
Standing Water Level	4.65	m	06/06/24
Vanadium	0.0041	mg/L	06/06/24
Zinc	0.022	mg/L	06/06/24

Groundwater Monitoring
Groundwater Well – MW06

EPA Identification no. 34 – Groundwater Monitoring Well 06

Name	Reading	Units	Date
Aluminum	0.015	mg/L	11/06/24
Ammonia	3.42	mg/L	11/06/24
Arsenic (III)	0.0048	mg/L	11/06/24
Arsenic (V)	0.0011	mg/L	11/06/24
Cadmium	<0.0002	mg/L	11/06/24
Calcium	475	mg/L	11/06/24
Chromium (trivalent)	<0.01	mg/L	11/06/24
Chromium (VI) compounds	<0.01	mg/L	11/06/24
Copper	<0.001	mg/L	11/06/24
Electrical Conductivity	20400	uS/cm	11/06/24
Iron	13.6	mg/L	11/06/24
Lead	0.0002	mg/L	11/06/24
Magnesium	281	mg/L	11/06/24
Manganese	0.422	mg/L	11/06/24
Nickel	0.0012	mg/L	11/06/24
pH	6.56	pH units	11/06/24
Potassium	123	mg/L	11/06/24
Selenium	<0.002	mg/L	11/06/24
Sodium	3740	mg/L	11/06/24
Standing Water Level	1.67	m	11/06/24
Vanadium	0.0008	mg/L	11/06/24
Zinc	0.022	mg/L	11/06/24

Groundwater Monitoring
Groundwater Well – EGM/D26

EPA Identification no. 35 – Groundwater Monitoring Well D26

Name	Reading	Units	Date
Aluminium	0.390	mg/L	12/06/24
Ammonia	0.2	mg/L	12/06/24
Arsenic (III)	<0.0005	mg/L	12/06/24
Arsenic (V)	<0.0005	mg/L	12/06/24
Cadmium	<0.0005	mg/L	12/06/24
Calcium	5	mg/L	12/06/24
Chromium (trivalent)	<0.01	mg/L	12/06/24
Chromium (VI) compounds	<0.01	mg/L	12/06/24
Copper	0.0005	mg/L	12/06/24
Electrical Conductivity	180	uS/cm	12/06/24
Iron	1.07	mg/L	12/06/24
Lead	0.0003	mg/L	12/06/24
Magnesium	3	mg/L	12/06/24
Manganese	0.003	mg/L	12/06/24
Nickel	0.0009	mg/L	12/06/24
pH	4.99	pH units	12/06/24
Potassium	<1	mg/L	12/06/24
Selenium	0.0002	mg/L	12/06/24
Sodium	24	mg/L	12/06/24
Standing Water Level	1.50	m	12/06/24
Vanadium	0.0017	mg/L	12/06/24
Zinc	0.007	mg/L	12/06/24