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

Environmental Monitoring Data February 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 6, 25 and 26 February 2024
NOx Unit Data Invalidated 11 February 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 February	470	543	373	787	935	676
2 February	485	547	408	950	1000	855
3 February	455	542	375	842	950	753
4 February	474	534	371	946	1124	822
5 February	471	557	362	971	1047	897
6 February	-	-	-	-	-	-
7 February	442	476	384	717	776	625
8 February	459	518	416	785	886	671
9 February	454	519	395	726	812	645
10 February	460	484	419	827	1028	583
11 February	-	-	-	821	963	680
12 February	507	575	438	761	844	711
13 February	522	577	472	920	1092	711
14 February	525	596	473	805	930	729
15 February	446	554	377	650	726	553
16 February	452	535	382	839	994	492
17 February	500	548	444	838	986	731
18 February	482	531	430	861	962	803
19 February	513	570	443	704	915	499
20 February	566	627	454	853	978	707
21 February	524	578	487	792	844	715
22 February	526	545	502	1028	1223	773
23 February	516	554	458	973	1164	779
24 February	508	570	387	863	951	721
25 February	-	-	-	-	-	-
26 February	-	-	-	-	-	-
27 February	573	604	532	1035	1207	849
28 February	534	590	467	969	1066	808
29 February	515	632	431	1022	1274	812

Unit 1B Boiler Continuous Emission Monitoring Summary

EPA Identification no.7 - Air emissions monitoring, Boiler 1 stack discharge to air
Unit 1B Data Invalidated 7, 19, 20 and 21 February 2024
NOx Unit Data Invalidated 10-18 February 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 February	404	459	347	805	927	716
2 February	411	462	370	960	1010	926
3 February	408	451	359	887	1003	784
4 February	423	473	378	944	1068	859
5 February	415	495	308	968	1048	906
6 February	417	476	375	935	1048	863
7 February	-	-	-	-	-	-
8 February	410	449	373	844	904	773
9 February	401	462	354	790	864	719
10 February	-	-	-	996	1154	732
11 February	-	-	-	891	1013	761
12 February	-	-	-	791	926	717
13 February	-	-	-	915	1041	725
14 February	-	-	-	808	864	745
15 February	-	-	-	766	811	714
16 February	-	-	-	856	958	737
17 February	-	-	-	844	877	760
18 February	-	-	-	856	886	817
19 February	-	-	-	-	-	-
20 February	-	-	-	-	-	-
21 February	-	-	-	-	-	-
22 February	436	510	405	1083	1290	886
23 February	435	483	398	1009	1214	938
24 February	445	485	366	1055	1130	962
25 February	468	513	395	1093	1138	1063
26 February	467	505	404	1170	1227	1132
27 February	501	542	470	1106	1183	903
28 February	477	538	395	1008	1110	905
29 February	454	523	366	1045	1233	891

Unit 2A Boiler Continuous Emission Monitoring Summary

EPA Identification no. 9 - Air emissions monitoring, Boiler 2 stack discharge to air
Unit 2A Data Invalidated 7, 9, 19, 20 and 21 February 2024
NOx Unit Data Invalidated 6,10, 11, 12 February 2024
SOx Unit Data Invalidated 22 February 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 February	382	425	305	540	631	464
2 February	370	401	326	703	791	548
3 February	363	412	318	681	819	454
4 February	350	400	266	681	779	580
5 February	390	429	360	670	842	518
6 February	-	-	-	713	1014	497
7 February	-	-	-	-	-	-
8 February	369	398	336	583	693	425
9 February	-	-	-	-	-	-
10 February	-	-	-	763	1101	463
11 February	-	-	-	665	886	426
12 February	-	-	-	490	656	442
13 February	357	466	287	571	805	414
14 February	357	432	311	502	659	403
15 February	468	542	354	603	711	492
16 February	412	571	354	521	598	430
17 February	465	554	365	609	716	440
18 February	410	492	336	659	760	516
19 February	-	-	-	-	-	-
20 February	-	-	-	-	-	-
21 February	-	-	-	-	-	-
22 February	436	525	404	-	-	-
23 February	400	477	305	599	708	499
24 February	406	471	363	622	733	518
25 February	396	437	334	736	835	566
26 February	487	558	427	819	1047	678
27 February	472	510	386	725	885	594
28 February	459	504	430	591	641	512
29 February	477	580	360	630	720	546

Unit 2B Boiler Continuous Emission Monitoring Summary

EPA Identification no. 10 - Air emissions monitoring, Boiler 2 stack discharge to air
Unit 2B Data Invalidated 8 and 22 February 2024
NOx Unit Data Invalidated 10, 11, 12, 23-27 February 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 February	516	621	366	769	945	621
2 February	473	609	393	907	949	844
3 February	457	585	368	864	959	774
4 February	454	552	327	927	1075	809
5 February	512	626	411	968	1038	911
6 February	489	608	411	960	1214	816
7 February	499	624	394	804	852	754
8 February	-	-	-	-	-	-
9 February	524	626	418	728	852	630
10 February	-	-	-	956	1220	631
11 February	-	-	-	866	1037	763
12 February	-	-	-	765	869	632
13 February	524	686	369	827	911	698
14 February	543	670	425	778	871	684
15 February	550	604	438	732	808	685
16 February	614	681	495	854	957	752
17 February	613	734	505	837	951	754
18 February	539	707	418	842	873	804
19 February	529	592	447	779	855	735
20 February	677	805	487	860	990	708
21 February	697	755	567	834	934	763
22 February	-	-	-	-	-	-
23 February	-	-	-	937	1042	830
24 February	-	-	-	1001	1098	872
25 February	-	-	-	1063	1153	984
26 February	-	-	-	1142	1182	1075
27 February	-	-	-	1116	1147	1012
28 February	714	762	667	987	1067	886
29 February	668	776	466	950	1064	864

Unit 3A Boiler Continuous Emission Monitoring Summary

EPA Identification no. 11 - Air emissions monitoring, Boiler 3 stack discharge to air
Unit 3A Data Invalidated 14 and 15 February 2024
NOx Unit Data Invalidated 3, 4, 17, 24 and 25 February 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 February	305	388	248	630	725	556
2 February	299	403	238	766	805	741
3 February	-	-	-	744	849	659
4 February	-	-	-	756	824	706
5 February	312	383	234	779	830	739
6 February	315	386	251	743	798	699
7 February	304	357	239	686	744	647
8 February	318	389	271	698	748	650
9 February	317	398	240	658	743	573
10 February	321	356	285	820	998	567
11 February	322	360	278	781	902	681
12 February	350	389	306	664	749	582
13 February	363	404	307	735	823	642
14 February	-	-	-	-	-	-
15 February	-	-	-	-	-	-
16 February	361	417	283	691	730	644
17 February	-	-	-	678	738	626
18 February	319	423	239	727	767	689
19 February	344	399	287	636	716	573
20 February	285	327	233	678	708	590
21 February	276	318	233	656	710	628
22 February	329	433	247	696	819	616
23 February	298	372	225	674	822	594
24 February	-	-	-	674	728	586
25 February	-	-	-	706	742	656
26 February	346	367	311	747	759	721
27 February	309	346	261	696	735	615
28 February	295	309	274	622	657	570
29 February	349	493	250	673	807	585

Unit 3B Boiler Continuous Emission Monitoring Summary

EPA Identification no. 12 - Air emissions monitoring, Boiler 3 stack discharge to air
Unit 3B Data Invalidated 14, 15 & 22 February 2024
SOx Unit Data Invalidated 6 February 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 February	270	346	216	526	591	479
2 February	252	316	211	647	691	586
3 February	250	308	215	616	709	520
4 February	259	292	213	622	680	578
5 February	260	313	200	649	700	591
6 February	253	296	221	-	-	-
7 February	257	298	210	579	643	528
8 February	263	299	218	581	639	511
9 February	263	323	204	544	633	456
10 February	268	299	245	667	787	441
11 February	266	294	230	639	766	550
12 February	293	316	259	544	613	477
13 February	303	327	269	586	686	504
14 February	-	-	-	-	-	-
15 February	-	-	-	-	-	-
16 February	302	339	234	555	591	518
17 February	298	351	200	549	607	492
18 February	267	340	201	603	651	549
19 February	300	330	264	515	590	452
20 February	231	291	211	554	590	517
21 February	238	273	205	536	588	503
22 February	-	-	-	-	-	-
23 February	243	322	215	544	679	475
24 February	297	348	226	540	603	503
25 February	283	329	217	567	618	545
26 February	284	297	271	599	633	580
27 February	246	271	226	558	618	488
28 February	253	270	221	489	516	449
29 February	288	420	214	533	668	457

Unit 4A Boiler Continuous Emission Monitoring Summary

EPA Identification no. 13 - Air emissions monitoring, Boiler 4 stack discharge to air
Unit 4A Data Invalidated 14 & 15 February 2024
NOx Unit Data Invalidated 16 February 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 February	409	463	359	634	746	523
2 February	377	410	346	743	790	665
3 February	386	418	349	702	786	640
4 February	373	417	352	780	909	642
5 February	383	438	330	799	860	744
6 February	372	394	355	695	879	474
7 February	393	432	357	529	673	479
8 February	396	426	371	599	737	491
9 February	390	428	355	587	683	470
10 February	367	405	340	704	861	416
11 February	370	402	342	683	789	621
12 February	368	395	348	652	704	588
13 February	382	407	359	709	804	573
14 February	-	-	-	-	-	-
15 February	-	-	-	-	-	-
16 February	-	-	-	653	766	412
17 February	386	425	311	663	747	514
18 February	386	447	294	706	741	631
19 February	416	453	377	545	702	368
20 February	383	426	356	493	696	370
21 February	406	459	369	559	663	409
22 February	424	469	381	682	777	547
23 February	397	469	350	650	729	556
24 February	417	474	359	529	643	470
25 February	382	448	320	594	660	438
26 February	368	384	352	689	756	558
27 February	350	376	329	632	723	441
28 February	362	376	348	594	677	327
29 February	325	368	264	619	1204	415

Unit 4B Boiler Continuous Emission Monitoring Summary

EPA Identification no. 14 – Air emissions monitoring, Boiler 4 stack discharge to air
Unit 4B Offline 14 & 15 February 2024
NOx Unit Data Invalidated 16-18 February 2024
SOx Unit Data Invalidated 19 and 20 February 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 February	288	319	261	458	533	390
2 February	265	288	235	529	578	487
3 February	271	310	240	510	591	444
4 February	275	329	239	564	738	473
5 February	263	290	230	547	621	506
6 February	254	273	245	534	705	455
7 February	278	338	252	458	495	442
8 February	287	303	259	477	511	440
9 February	275	319	232	460	505	411
10 February	251	287	231	585	693	445
11 February	262	286	239	545	608	466
12 February	239	282	201	470	549	397
13 February	228	290	204	465	529	402
14 February	-	-	-	-	-	-
15 February	-	-	-	-	-	-
16 February	-	-	-	504	573	398
17 February	-	-	-	496	583	435
18 February	-	-	-	533	583	484
19 February	301	356	247	-	-	-
20 February	325	370	302	-	-	-
21 February	328	352	313	444	508	380
22 February	316	355	285	521	606	440
23 February	307	373	267	431	469	401
24 February	273	288	245	453	516	395
25 February	267	302	221	495	532	445
26 February	252	280	226	526	557	492
27 February	251	277	236	523	551	492
28 February	274	306	235	457	493	426
29 February	287	412	227	501	738	381

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	1.6	mg/m^3	50	18/04/2023
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	<0.0002	mg/m^3	0.2	28/02/2023
Mercury	<0.0004	mg/m^3	0.05	28/02/2023
Solid Particles	3.7	mg/m^3	50	1/11/2023
Type 1 and 2 substances in Aggregate	<0.03	mg/m^3	0.75	28/02/2023

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

Name	Reading	Units	Licence Limit	Date
Flow Rate	350	m3/sec		31/10/2023
Moisture	5.5	%		31/10/2023
Oxygen	8.2	%		31/10/2023
Solid Particles	3.4	mg/m3		31/10/2023
Temperature	119	degC		31/10/2023
Carbon dioxide	11.7	%		31/10/2023
Chlorine	<0.01	mg/m3		31/10/2023
Fluorine	8.2	mg/m3		31/10/2023
Hydrogen chloride	9.2	mg/m3		31/10/2023
Sulfuric acid mist and sulfur trioxide (as SO3)	3.4	mg/m3		31/10/2023
Volatile organic compounds as n-propane equivalent	<0.09	mg/m3		31/10/2023
Cadmium	<0.0002	mg/m3		28/02/2023
Flow Rate	230	m3/sec		28/02/2023
Mercury	0.00044	mg/m3		28/02/2023
Moisture	5.7	%		28/02/2023
Oxygen	8.3	%		28/02/2023
Solid Particles	1.5	mg/m3		28/02/2023
Temperature	110	degC		28/02/2023
Type 1 and Type 2 substances in Aggregate	<0.012	mg/m3		28/02/2023
Carbon dioxide	10.9	%		28/02/2023

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

Name	Reading	Units	Licence Limit	Date
Flow Rate	330	m3/sec		1/11/2023
Moisture	5.1	%		1/11/2023
Oxygen	7	%		1/11/2023
Solid Particles	3.9	mg/m3		1/11/2023
Temperature	114	degC		1/11/2023
Carbon dioxide	13.2	%		1/11/2023
Cadmium	<0.0003	mg/m3		28/02/2023
Flow Rate	220	m3/sec		28/02/2023
Mercury	<0.0003	mg/m3		28/02/2023
Moisture	5.0	%		28/02/2023
Oxygen	8.8	%		28/02/2023
Solid Particles	1.9	mg/m3		28/02/2023
Temperature	109	degC		28/02/2023
Type 1 and Type 2 substances in Aggregate	<0.041	mg/m3		28/02/2023
Carbon dioxide	11.3	%		28/02/2023

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	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	13	mg/m^3	50	5/12/2023
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	<0.0003	mg/m^3	0.2	28/02/2023
Mercury	0.0024	mg/m^3	0.05	28/02/2023
Solid Particles	16	mg/m3	50	28/02/2023
Type 1 and 2 substances in Aggregate	<0.06	mg/m3	0.75	28/02/2023

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

Name	Reading	Units	Licence Limit	Date
Flow Rate	280	m3/sec		5/12/2023
Moisture	5.2	%		5/12/2023
Oxygen	7.6	%		5/12/2023
Solid Particles	13	mg/m3		5/12/2023
Temperature	119	degC		5/12/2023
Carbon dioxide	12	%		5/12/2023
Chlorine	<0.01	mg/m3		5/12/2023
Fluorine	9.7	mg/m3		5/12/2023
Hydrogen chloride	9.7	mg/m3		5/12/2023
Sulfuric acid mist and sulfur trioxide (as SO3)	1.3	mg/m3		5/12/2023
Volatile organic compounds as n-propane equivalent	<0.06	mg/m3		5/12/2023
Cadmium	<0.0003	mg/m3		28/02/2023
Flow Rate	240	m3/sec		28/02/2023
Mercury	0.0023	mg/m3		28/02/2023
Moisture	5.8	%		28/02/2023
Oxygen	10.3	%		28/02/2023
Solid Particles	29	mg/m3		28/02/2023
Temperature	124	degC		28/02/2023
Type 1 and Type 2 substances in Aggregate	<0.11	mg/m3		28/02/2023
Carbon dioxide	9.5	%		28/02/2023

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

Name	Reading	Units	Licence Limit	Date
Flow Rate	280	m3/sec		5/12/2023
Moisture	4.7	%		5/12/2023
Oxygen	7.3	%		5/12/2023
Solid Particles	13	mg/m3		5/12/2023
Temperature	122	degC		5/12/2023
Carbon dioxide	12.2	%		5/12/2023
Cadmium	<0.0002	mg/m3		28/02/2023
Flow Rate	220	m3/sec		28/02/2023
Mercury	0.0025	mg/m3		28/02/2023
Moisture	5.9	%		28/02/2023
Oxygen	9.0	%		28/02/2023
Solid Particles	2.4	mg/m3		28/02/2023
Temperature	118	degC		28/02/2023
Type 1 and Type 2 substances in Aggregate	<0.014	mg/m3		28/02/2023
Carbon dioxide	10.3	%		28/02/2023

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	8.4	mg/m3	50	6/12/2023
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	<0.0003	mg/m3	0.2	1/03/2023
Mercury	0.00058	mg/m3	0.05	1/03/2023
Solid Particles	4	mg/m3	50	1/03/2023
Type 1 and 2 substances in Aggregate	<0.03	mg/m3	0.75	1/03/2023

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

Name	Reading	Units	Licence Limit	Date
Flow Rate	270	m3/sec		6/12/2023
Moisture	5.8	%		6/12/2023
Oxygen	6.6	%		6/12/2023
Solid Particles	9.7	mg/m3		6/12/2023
Temperature	124	degC		6/12/2023
Carbon dioxide	12.5	%		6/12/2023
Chlorine	0.03	mg/m3		6/12/2023
Fluorine	19	mg/m3		6/12/2023
Hydrogen chloride	20	mg/m3		6/12/2023
Sulfuric acid mist and sulfur trioxide (as SO3)	1.5	mg/m3		6/12/2023
Volatile organic compounds as n-propane equivalent	<0.05	mg/m3		6/12/2023
Cadmium	<0.0003	mg/m3		1/03/2023
Flow Rate	320	m3/sec		1/03/2023
Mercury	0.00052	mg/m3		1/03/2023
Moisture	3.9	%		1/03/2023
Oxygen	12.2	%		1/03/2023
Solid Particles	3	mg/m3		1/03/2023
Temperature	92	degC		1/03/2023
Type 1 and Type 2 substances in Aggregate	<0.017	mg/m3		1/03/2023
Carbon dioxide	7.6	%		1/03/2023

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

Name	Reading	Units	Licence Limit	Date
Flow Rate	300	m3/sec		6/12/2023
Moisture	6.6	%		6/12/2023
Oxygen	6.9	%		6/12/2023
Solid Particles	7.3	mg/m3		6/12/2023
Temperature	119	degC		6/12/2023
Carbon dioxide	13.2	%		6/12/2023
Cadmium	<0.0003	mg/m3		1/03/2023
Flow Rate	240	m3/sec		1/03/2023
Mercury	0.00065	mg/m3		1/03/2023
Moisture	5.6	%		1/03/2023
Oxygen	9.9	%		1/03/2023
Solid Particles	5.3	mg/m3		1/03/2023
Temperature	113	degC		1/03/2023
Type 1 and Type 2 substances in Aggregate	<0.052	mg/m3		1/03/2023
Carbon dioxide	10.1	%		1/03/2023

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	18	mg/m3	50	7/12/2023
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	<0.0002	mg/m3	0.2	1/03/2023
Mercury	0.0016	mg/m3	0.05	1/03/2023
Solid Particles	5.4	mg/m3	50	1/03/2023
Type 1 and 2 substances in Aggregate	<0.02	mg/m3	0.75	1/03/2023

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

Name	Reading	Units	Licence Limit	Date
Flow Rate	370	m^3/sec		7/12/2023
Moisture	5.5	%		7/12/2023
Oxygen	7.7	%		7/12/2023
Solid Particles	7.3	mg/m^3		7/12/2023
Temperature	122	degC		7/12/2023
Carbon dioxide	12.5	%		7/12/2023
Chlorine	0.025	mg/m^3		7/12/2023
Fluorine	16	mg/m^3		7/12/2023
Hydrogen chloride	15	mg/m^3		7/12/2023
Sulfuric acid mist and sulfur trioxide (as SO3)	1.0	mg/m^3		7/12/2023
Volatile organic compounds as n-propane equivalent	0.16	mg/m^3		7/12/2023
Cadmium	<0.0003	mg/m^3		1/03/2023
Flow Rate	240	m^3/sec		1/03/2023
Mercury	0.0023	mg/m^3		1/03/2023
Moisture	5.1	%		1/03/2023
Oxygen	11	%		1/03/2023
Solid Particles	5.7	mg/m^3		1/03/2023
Temperature	114	degC		1/03/2023
Type 1 and Type 2 substances in Aggregate	<0.034	mg/m^3		1/03/2023
Carbon dioxide	8.9	%		1/03/2023

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

Name	Reading	Units	Licence Limit	Date
Flow Rate	350	m^3/sec		7/12/2023
Moisture	6.6	%		7/12/2023
Oxygen	7.3	%		7/12/2023
Solid Particles	30	mg/m^3		7/12/2023
Temperature	125	degC		7/12/2023
Carbon dioxide	12	%		7/12/2023
Cadmium	<0.0002	mg/m^3		1/03/2023
Flow Rate	260	m^3/sec		1/03/2023
Mercury	0.00099	mg/m^3		1/03/2023
Moisture	4.7	%		1/03/2023
Oxygen	8.5	%		1/03/2023
Solid Particles	5.2	mg/m^3		1/03/2023
Temperature	117	degC		1/03/2023
Type 1 and Type 2 substances in Aggregate	<0.015	mg/m^3		1/03/2023
Carbon dioxide	11	%		1/03/2023

Eraring Depositional Dust Gauges

EPA Identification no.17, 18, 19 & 20 - Depositional dust monitoring within 1km of the coal handling operations

Eraring Identification	EPA Identification No	Deposited Matter		
		g/m2/month		
		Ash	Combustible	Insoluble
E2	17	0.4	0.2	0.6
E4	18	0.5	0.2	0.7
E6	19	1.9	0.3	2.2
U6	20	0.7	0.2	0.9

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
28.25	0.5	28.84	8.87	21.3	98.8	6.73	1.75

Laboratory Analysis

Name	Reading	Units	Date
Aluminium	0.073	mg/L	2/02/24
Ammonia	<0.01	mg/L	2/02/24
Arsenic III	<0.004	mg/L	2/02/24
Arsenic V	<0.004	mg/L	2/02/24
Cadmium	<0.0002	mg/L	2/02/24
Chromium (Trivalent)	<0.001	mg/L	2/02/24
Chromium (VI) Compounds	<0.001	mg/L	2/02/24
Copper	0.001	mg/L	2/02/24
Iron	0.139	mg/L	2/02/24
Lead	<0.0002	mg/L	2/02/24
Manganese	0.0105	mg/L	2/02/24
Nickel	<0.0005	mg/L	2/02/24
pH	8.16	pH units	2/02/24
Selenium	<0.002	mg/L	2/02/24
Total Suspended Solids	24	mg/L	2/02/24
Vanadium	0.0034	mg/L	2/02/24
Zinc	<0.005	mg/L	2/02/24

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
25.09	0.5	28.06	8.94	21.9	107.9	7.36	2.75

Laboratory Analysis

Name	Reading	Units	Date
Aluminium	0.046	mg/L	2/02/24
Ammonia	<0.01	mg/L	2/02/24
Arsenic III	<0.004	mg/L	2/02/24
Arsenic V	<0.004	mg/L	2/02/24
Cadmium	<0.0002	mg/L	2/02/24
Chromium (Trivalent)	<0.001	mg/L	2/02/24
Chromium (VI) Compounds	<0.001	mg/L	2/02/24
Copper	0.001	mg/L	2/02/24
Iron	0.058	mg/L	2/02/24
Lead	<0.0002	mg/L	2/02/24
Manganese	0.0082	mg/L	2/02/24
Nickel	<0.0005	mg/L	2/02/24
pH	8.18	pH units	2/02/24
Selenium	<0.002	mg/L	2/02/24
Total Suspended Solids	23	mg/L	2/02/24
Vanadium	0.0041	mg/L	2/02/24
Zinc	<0.005	mg/L	2/02/24

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
23.98	0.5	26.03	8.95	21	110.2	7.85	4.25

Laboratory Analysis

Name	Reading	Units	Date
Aluminium	0.026	mg/L	2/02/24
Ammonia	<0.01	mg/L	2/02/24
Arsenic III	<0.004	mg/L	2/02/24
Arsenic V	<0.004	mg/L	2/02/24
Cadmium	<0.0002	mg/L	2/02/24
Chromium (Trivalent)	<0.001	mg/L	2/02/24
Chromium (VI) Compounds	<0.001	mg/L	2/02/24
Copper	<0.001	mg/L	2/02/24
Iron	0.027	mg/L	2/02/24
Lead	<0.0002	mg/L	2/02/24
Manganese	0.0042	mg/L	2/02/24
Nickel	<0.0005	mg/L	2/02/24
pH	8.15	pH units	2/02/24
Selenium	<0.002	mg/L	2/02/24
Total Suspended Solids	24	mg/L	2/02/24
Vanadium	0.0022	mg/L	2/02/24
Zinc	<0.005	mg/L	2/02/24

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
27.26	0.5	30.9	8.81	21.7	113.8	7.39	2.25

Laboratory Analysis

Name	Reading	Units	Date
Aluminium	0.065	mg/L	2/02/24
Ammonia	<0.01	mg/L	2/02/24
Arsenic III	<0.004	mg/L	2/02/24
Arsenic V	<0.004	mg/L	2/02/24
Cadmium	<0.0002	mg/L	2/02/24
Chromium (Trivalent)	<0.001	mg/L	2/02/24
Chromium (VI) Compounds	<0.001	mg/L	2/02/24
Copper	0.002	mg/L	2/02/24
Iron	0.104	mg/L	2/02/24
Lead	<0.0002	mg/L	2/02/24
Manganese	0.0113	mg/L	2/02/24
Nickel	<0.0005	mg/L	2/02/24
pH	8.16	pH units	2/02/24
Selenium	<0.002	mg/L	2/02/24
Total Suspended Solids	21	mg/L	2/02/24
Vanadium	0.0032	mg/L	2/02/24
Zinc	<0.005	mg/L	2/02/24

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	0.099	mg/L	-	2/02/24
Ammonia	0.74	mg/L	-	2/02/24
Arsenic III	0.0007	mg/L	-	2/02/24
Arsenic V	0.0087	mg/L	-	2/02/24
Cadmium	0.0001	mg/L	-	2/02/24
Chromium (Trivalent)	<0.001	mg/L	-	2/02/24
Chromium (VI) Compounds	<0.01	mg/L	-	2/02/24
Copper	0.0038	mg/L	-	2/02/24
Iron	0.053	mg/L	-	2/02/24
Lead	0.0002	mg/L	-	2/02/24
Manganese	0.0285	mg/L	-	2/02/24
Nickel	0.0026	mg/L	-	2/02/24
Nitrite and Nitrate as N	5.46	mg/L	-	2/02/24
Nitrogen	7.9	mg/L	-	2/02/24
pH	7.8	pH units	-	2/02/24
Phosphorus as P	1.25	mg/L	-	2/02/24
Reactive Phosphorus as P	1.22	mg/L	-	2/02/24
Selenium	0.0196	mg/L	-	2/02/24
Total Kjeldahl Nitrogen	2.4	mg/L	-	2/02/24
Total Suspended Solids	14	mg/L	-	2/02/24
Vanadium	0.0348	mg/L	-	2/02/24
Zinc	0.003	mg/L	-	2/02/24

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	0.128	mg/L	-	2/02/24
Ammonia	<0.01	mg/L	-	2/02/24
Arsenic III	<0.004	mg/L	-	2/02/24
Arsenic V	<0.004	mg/L	-	2/02/24
Cadmium	<0.0002	mg/L	-	2/02/24
Chromium (Trivalent)	<0.001	mg/L	-	2/02/24
Chromium (VI) Compounds	<0.01	mg/L	-	2/02/24
Copper	0.0021	mg/L	-	2/02/24
Iron	0.186	mg/L	-	2/02/24
Lead	<0.0002	mg/L	-	2/02/24
Manganese	0.0108	mg/L	-	2/02/24
Nickel	<0.0005	mg/L	-	2/02/24
pH	8.1	pH units	-	2/02/24
Selenium	<0.001	mg/L	-	2/02/24
Total Suspended Solids	13	mg/L	-	2/02/24
Vanadium	0.0031	mg/L	-	2/02/24
Zinc	<0.005	mg/L	-	2/02/24
Dissolved Oxygen	5.67	mg/L	-	2/02/24
Field Temperature	29.1	degC	-	2/02/24
Salinity	37.77	ppt	-	2/02/24
Secchi Disk	1.5	m	-	2/02/24
Temperature – Average	27.05	deg C	-	February 24
Temperature – Minimum	24.95	deg C	-	February 24
Temperature - Maximum	29.62	deg C	-	February 24

Eraring Cooling Water Outlet Canal

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

Name	Reading	Units	Licence Limit	Date
Copper	0.0019	mg/L	0.005	2/02/24
Iron	0.16	mg/L	0.3	2/02/24
Selenium	<0.001	mg/L	0.002	2/02/24

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	33.85	deg C	35.5	37.5	38.5	February 24
Temperature – Minimum	23.81	deg C				February 24
Temperature - Maximum	37.08	deg C				February 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	23.57	ML	150	February 24
Monthly Discharge from Ash Dam	152.52	ML	-	February 24

Emergency Discharge – Toe Drain Pond

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

Name	Reading	Units	Licence Limit	Date
Aluminium	0.01	mg/L	-	2/02/24
Ammonia	3.42	mg/L	-	2/02/24
Arsenic III	0.0026	mg/L	-	2/02/24
Arsenic V	0.0011	mg/L	-	2/02/24
Cadmium	<0.00005	mg/L	-	2/02/24
Chromium (Trivalent)	<0.001	mg/L	-	2/02/24
Chromium (VI) Compounds	<0.01	mg/L	-	2/02/24
Copper	0.009	mg/L	-	2/02/24
Iron	5.56	mg/L	-	2/02/24
Lead	0.0001	mg/L	-	2/02/24
Manganese	0.901	mg/L	-	2/02/24
Nickel	0.0015	mg/L	-	2/02/24
Nitrite and Nitrate as N	0.24	mg/L	-	2/02/24
Nitrogen	3.59	mg/L	-	2/02/24
pH	6.91	pH units	6-9.5	2/02/24
Phosphorus as P	0.358	mg/L	-	2/02/24
Reactive Phosphorus as P	0.048	mg/L	-	2/02/24
Selenium	0.0002	mg/L	-	2/02/24
Total Kjeldahl Nitrogen	3.35	mg/L	-	2/02/24
Total Suspended Solids	21	mg/L	50	2/02/24
Vanadium	0.0007	mg/L	-	2/02/24
Zinc	0.002	mg/L	-	2/02/24

MR217

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

MR217 did not discharge throughout February 2024 and there was insufficient water to sample during routine sampling in February 2024

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

Groundwater Monitoring
Groundwater Well – MW01

EPA Identification no. 32 – Groundwater Monitoring Well 01

Name	Reading	Units	Date
Aluminium	0.1060	mg/L	4/12/23
Ammonia	<0.01	mg/L	4/12/23
Arsenic (III)	<0.0005	mg/L	4/12/23
Arsenic (V)	<0.0005	mg/L	4/12/23
Cadmium	<0.00005	mg/L	4/12/23
Calcium	1	mg/L	4/12/23
Chromium (trivalent)	<0.001	mg/L	4/12/23
Chromium (VI) compounds	<0.001	mg/L	4/12/23
Copper	0.0009	mg/L	4/12/23
Electrical Conductivity	335	uS/cm	4/12/23
Iron	0.0470	mg/L	4/12/23
Lead	0.0003	mg/L	4/12/23
Magnesium	4	mg/L	4/12/23
Manganese	0.0990	mg/L	4/12/23
Nickel	0.0037	mg/L	4/12/23
pH	5.15	pH units	4/12/23
Potassium	4	mg/L	4/12/23
Selenium	<0.0002	mg/L	4/12/23
Sodium	60	mg/L	4/12/23
Standing Water Level	8.835	metres	4/12/23
Vanadium	<0.0002	mg/L	4/12/23
Zinc	0.0210	mg/L	4/12/23

Groundwater Monitoring
Groundwater Well – MW02

EPA Identification no. 33 – Groundwater Monitoring Well 02

Name	Reading	Units	Date
Aluminium	0.2990	mg/L	5/12/23
Ammonia	5.04	mg/L	5/12/23
Arsenic (III)	<0.004	mg/L	5/12/23
Arsenic (V)	<0.004	mg/L	5/12/23
Cadmium	<0.0005	mg/L	5/12/23
Calcium	318	mg/L	5/12/23
Chromium (trivalent)	<0.001	mg/L	5/12/23
Chromium (VI) compounds	0.0010	mg/L	5/12/23
Copper	0.0018	mg/L	5/12/23
Electrical Conductivity	20000	uS/cm	5/12/23
Iron	13.6000	mg/L	5/12/23
Lead	0.0020	mg/L	5/12/23
Magnesium	404	mg/L	5/12/23
Manganese	0.9090	mg/L	5/12/23
Nickel	0.0021	mg/L	5/12/23
pH	6.52	pH units	5/12/23
Potassium	148	mg/L	5/12/23
Selenium	0.0005	mg/L	5/12/23
Sodium	4250	mg/L	5/12/23
Standing Water Level	4.09	metres	5/12/23
Vanadium	0.0038	mg/L	5/12/23
Zinc	0.0440	mg/L	5/12/23

Groundwater Monitoring
Groundwater Well – MW06

EPA Identification no. 34 – Groundwater Monitoring Well 06

Name	Reading	Units	Date
Aluminum	0.0320	mg/L	4/12/23
Ammonia	3.55	mg/L	4/12/23
Arsenic (III)	0.0049	mg/L	4/12/23
Arsenic (V)	0.0007	mg/L	4/12/23
Cadmium	<0.0002	mg/L	4/12/23
Calcium	502	mg/L	4/12/23
Chromium (trivalent)	<0.001	mg/L	4/12/23
Chromium (VI) compounds	0.0020	mg/L	4/12/23
Copper	<0.001	mg/L	4/12/23
Electrical Conductivity	19900	uS/cm	4/12/23
Iron	15.2000	mg/L	4/12/23
Lead	0.0004	mg/L	4/12/23
Magnesium	285	mg/L	4/12/23
Manganese	0.5300	mg/L	4/12/23
Nickel	0.0010	mg/L	4/12/23
pH	6.51	pH units	4/12/23
Potassium	124	mg/L	4/12/23
Selenium	<0.002	mg/L	4/12/23
Sodium	3730	mg/L	4/12/23
Standing Water Level	1.77	metres	4/12/23
Vanadium	0.0013	mg/L	4/12/23
Zinc	0.0410	mg/L	4/12/23

Groundwater Monitoring
Groundwater Well – EGM/D26

EPA Identification no. 35 – Groundwater Monitoring Well D26
Groundwater well was dry during sampling in December 2023

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