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

Environmental Monitoring Data June 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 13,15,16,18,20,21,22,25,26,28,29 and 30 June 2024
NOx Unit Data Invalidated 13,15,16,18,20,21,22,25,28,29 and 30 June 2024
Unit 1A offline 1,2,3,8,9,10,11 and 12 June 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 June	-	-	-	-	-	-
2 June	-	-	-	-	-	-
3 June	-	-	-	-	-	-
4 June	413	477	311	568	698	393
5 June	452	520	346	582	721	445
6 June	436	489	330	490	599	399
7 June	475	561	374	612	694	509
8 June	-	-	-	-	-	-
9 June	-	-	-	-	-	-
10 June	-	-	-	-	-	-
11 June	-	-	-	-	-	-
12 June	-	-	-	-	-	-
13 June	-	-	-	533	715	375
14 June	406	427	385	515	647	371
15 June	-	-	-	522	779	383
16 June	-	-	-	586	726	443
17 June	448	515	372	603	786	480
18 June	-	-	-	540	642	456
19 June	513	554	472	472	580	315
20 June	-	-	-	504	693	331
21 June	-	-	-	566	753	393
22 June	-	-	-	535	679	392
23 June	428	488	323	645	860	410
24 June	461	493	425	639	883	423
25 June	-	-	-	639	757	419
26 June	-	-	-	-	-	-
27 June	415	472	317	547	733	381
28 June	-	-	-	539	712	381
29 June	-	-	-	650	921	370
30 June	-	-	-	564	712	411

Unit 1B Boiler Continuous Emission Monitoring Summary

EPA Identification no.7 - Air emissions monitoring, Boiler 1 stack discharge to air
Unit 1B Data Invalidated 26 June 2024
NOx Unit Data Invalidated 5,15,16,17,22,23,24 and 25 June 2024
Unit 1 b Offline 1,2,3,8,9,10,11 and 12 June 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 June	-	-	-	-	-	-
2 June	-	-	-	-	-	-
3 June	-	-	-	-	-	-
4 June	370	441	294	818	887	750
5 June	-	-	-	752	838	670
6 June	406	473	302	661	765	607
7 June	452	519	350	765	821	673
8 June	-	-	-	-	-	-
9 June	-	-	-	-	-	-
10 June	-	-	-	-	-	-
11 June	-	-	-	-	-	-
12 June	-	-	-	-	-	-
13 June	336	392	248	668	787	553
14 June	322	367	230	-	-	-
15 June	-	-	-	767	876	655
16 June	-	-	-	839	892	767
17 June	-	-	-	773	905	694
18 June	399	442	320	677	725	625
19 June	424	465	375	635	737	568
20 June	424	480	306	676	887	565
21 June	424	466	374	703	905	597
22 June	-	-	-	662	765	559
23 June	-	-	-	845	965	604
24 June	-	-	-	767	982	621
25 June	-	-	-	784	988	594
26 June	-	-	-	-	-	-
27 June	342	392	254	620	660	579
28 June	361	455	305	660	757	593
29 June	335	392	276	772	878	599
30 June	342	390	295	746	843	607

Unit 2A Boiler Continuous Emission Monitoring Summary

EPA Identification no. 9 - Air emissions monitoring, Boiler 2 stack discharge to air
Unit 2A Data Invalidated 3,4,5 and 26 June 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 June	227	301	119	284	348	152
2 June	224	292	191	339	472	286
3 June	-	-	-	-	-	-
4 June	-	-	-	-	-	-
5 June	-	-	-	-	-	-
6 June	384	446	281	540	592	504
7 June	424	463	354	598	661	552
8 June	415	462	363	588	706	509
9 June	381	410	338	560	659	521
10 June	380	432	309	461	562	351
11 June	377	412	315	491	559	403
12 June	348	409	282	585	689	504
13 June	410	475	329	507	625	409
14 June	371	426	292	587	712	508
15 June	418	500	375	617	751	515
16 June	415	448	392	645	755	541
17 June	409	450	387	641	745	530
18 June	462	494	426	583	624	526
19 June	459	481	405	571	642	462
20 June	453	487	417	580	667	498
21 June	173	513	418	576	696	447
22 June	479	533	444	511	700	387
23 June	426	454	377	650	850	399
24 June	466	509	416	661	845	499
25 June	454	574	387	649	763	470
26 June	-	-	-	-	-	-
27 June	401	446	357	550	645	428
28 June	393	489	330	591	667	546
29 June	385	442	341	607	803	483
30 June	397	457	334	595	678	492

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 26 June 20-24

	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 June	433	476	397	654	728	603
2 June	397	442	353	710	762	662
3 June	411	451	343	728	797	641
4 June	428	471	340	774	925	627
5 June	430	498	300	685	735	618
6 June	398	468	287	616	689	570
7 June	457	499	357	673	723	630
8 June	447	474	395	678	793	595
9 June	403	432	332	648	685	611
10 June	397	438	305	587	663	543
11 June	398	420	308	620	695	559
12 June	380	443	290	662	716	624
13 June	433	501	329	636	739	566
14 June	421	464	333	699	772	621
15 June	468	516	436	736	867	619
16 June	462	536	372	769	868	720
17 June	473	509	445	742	871	639
18 June	516	567	453	653	712	601
19 June	524	569	434	647	731	543
20 June	517	566	472	667	763	588
21 June	537	615	430	644	784	524
22 June	578	667	508	623	817	529
23 June	495	537	387	800	978	540
24 June	553	607	426	747	965	580
25 June	519	639	443	721	870	581
26 June	-	-	-	-	-	-
27 June	471	534	431	670	755	593
28 June	446	569	333	669	701	644
29 June	449	511	336	704	810	575
30 June	479	550	363	717	810	579

Unit 3A Boiler Continuous Emission Monitoring Summary

EPA Identification no. 11 - Air emissions monitoring, Boiler 3 stack discharge to air
Unit 3A Offline 27 June 2024
Unit 3A Data Invalidated 7 and 24 June 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 June	316	348	292	682	726	635
2 June	306	340	267	772	844	700
3 June	320	362	292	817	920	712
4 June	320	348	302	853	988	668
5 June	300	370	280	783	851	679
6 June	285	310	268	679	768	639
7 June	-	-	-	-	-	-
8 June	395	424	342	641	722	609
9 June	370	388	325	704	772	637
10 June	380	410	331	679	793	610
11 June	378	397	341	694	744	630
12 June	357	384	283	713	752	681
13 June	388	470	320	754	797	712
14 June	422	471	389	765	852	706
15 June	405	442	319	773	919	659
16 June	411	457	310	819	862	789
17 June	404	449	320	793	877	691
18 June	476	553	424	705	778	644
19 June	432	500	332	673	781	597
20 June	434	497	383	715	851	631
21 June	422	481	292	720	907	576
22 June	413	488	299	687	829	575
23 June	378	421	309	806	1022	568
24 June	-	-	-	-	-	-
25 June	396	437	320	747	955	590
26 June	363	407	287	766	876	597
27 June	-	-	-	-	-	-
28 June	361	418	302	716	786	630
29 June	375	445	296	737	845	585
30 June	370	416	297	721	813	563

Unit 3B Boiler Continuous Emission Monitoring Summary

EPA Identification no. 12 - Air emissions monitoring, Boiler 3 stack discharge to air
Unit 3B Data Invalidated 7 and 30 June 2024
NOx Unit Data Invalidated 1,2,3 and 11 June 2024
SOx Unit Data Invalidated 29 June 2024
Unit 3 B offline 2-9 June 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 June	-	-	-	574	618	524
2 June	-	-	-	642	736	580
3 June	-	-	-	679	766	593
4 June	283	317	254	711	862	530
5 June	279	376	253	662	752	581
6 June	255	271	238	569	637	537
7 June	-	-	-	-	-	-
8 June	374	397	315	553	597	517
9 June	359	382	312	614	673	569
10 June	358	390	307	597	679	526
11 June	-	-	-	600	672	547
12 June	343	370	274	615	675	576
13 June	359	415	306	647	737	598
14 June	376	420	334	625	699	575
15 June	372	415	299	647	832	536
16 June	372	416	277	688	765	639
17 June	352	389	293	657	720	561
18 June	429	478	387	576	612	532
19 June	398	474	322	558	647	484
20 June	385	420	349	580	697	508
21 June	380	423	290	610	853	474
22 June	379	437	292	579	678	477
23 June	342	378	286	682	847	490
24 June	371	400	351	675	836	525
25 June	365	411	300	642	794	506
26 June	349	406	289	689	802	526
27 June	-	-	-	-	-	-
28 June	337	378	293	618	687	525
29 June	350	398	287	-	-	-
30 June	-	-	-	-	-	-

Unit 4A Boiler Continuous Emission Monitoring Summary

EPA Identification no. 13 - Air emissions monitoring, Boiler 4 stack discharge to air

Unit 4A Data Invalidated 7 June 2024

Unit 4A Offline 13,14,15,16,17,18,19,20,21,22,23 and 24 June 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 June	281	348	251	406	557	332
2 June	265	346	230	484	628	417
3 June	266	297	225	493	610	424
4 June	270	365	242	525	580	415
5 June	294	362	258	473	653	406
6 June	300	451	256	419	524	386
7 June	-	-	-	-	-	-
8 June	293	391	263	416	552	343
9 June	273	326	241	443	583	386
10 June	293	356	248	420	526	361
11 June	272	290	253	410	453	380
12 June	282	339	232	498	652	407
13 June	-	-	-	-	-	-
14 June	-	-	-	-	-	-
15 June	-	-	-	-	-	-
16 June	-	-	-	-	-	-
17 June	-	-	-	-	-	-
18 June	-	-	-	-	-	-
19 June	-	-	-	-	-	-
20 June	-	-	-	-	-	-
21 June	-	-	-	-	-	-
22 June	-	-	-	-	-	-
23 June	-	-	-	-	-	-
24 June	-	-	-	-	-	-
25 June	257	392	197	532	672	322
26 June	237	328	200	540	714	432
27 June	226	312	199	406	526	340
28 June	277	435	204	437	561	384
29 June	252	318	221	486	599	401
30 June	255	368	220	484	654	398

Unit 4B Boiler Continuous Emission Monitoring Summary

EPA Identification no. 14 – Air emissions monitoring, Boiler 4 stack discharge to air
SO2 Unit Data Invalidated 3 June 2024
Unit 4B Data Invalidated 7 June 2024
Unit 4B Data Offline 13,14,15,16,17,18,19,20,21,22,23 and 24 June 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 June	409	461	348	600	705	518
2 June	395	446	343	679	785	602
3 June	395	444	348	-	-	-
4 June	400	434	361	765	883	620
5 June	412	436	379	690	855	611
6 June	422	490	369	607	702	557
7 June	-	-	-	-	-	-
8 June	396	437	361	597	675	538
9 June	365	394	309	638	689	571
10 June	381	416	344	604	679	538
11 June	384	408	363	618	666	580
12 June	362	397	322	674	745	633
13 June	-	-	-	-	-	-
14 June	-	-	-	-	-	-
15 June	-	-	-	-	-	-
16 June	-	-	-	-	-	-
17 June	-	-	-	-	-	-
18 June	-	-	-	-	-	-
19 June	-	-	-	-	-	-
20 June	-	-	-	-	-	-
21 June	-	-	-	-	-	-
22 June	-	-	-	-	-	-
23 June	-	-	-	-	-	-
24 June	-	-	-	-	-	-
25 June	331	399	264	740	913	608
26 June	321	371	291	765	849	662
27 June	349	376	326	627	663	577
28 June	376	448	329	643	713	591
29 June	338	372	295	701	788	576
30 June	328	366	288	686	799	583

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	<0.0003	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	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	<0.0003	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	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		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 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	<0.0002	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 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	<0.0002	mg/m3		28/02/2024
Flow Rate	400	m3/sec		28/02/2024
Mercury	0.00056	mg/m3		28/02/2024
Moisture	6.4	%		28/02/2024
Oxygen	7.1	%		28/02/2024
Solid Particles	18	mg/m3		28/02/2024
Temperature	126	degC		28/02/2024
Type 1 and Type 2 substances in Aggregate	*	mg/m3		28/02/2024
Carbon dioxide	12.7	%		28/02/2024

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	<0.0003	mg/m3		28/02/2024
Flow Rate	380	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	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	<0.0002	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	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		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		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	<0.0002	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	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	<0.0003	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	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	<0.0004	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	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	<0.0003	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	2.1	0.4	2.5
ER4	18	0.7	0.7	1.4
ER6	19	2.1	0.8	2.9
U6	20	1.1	0.7	1.8

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
19.6	0.5	18.11	7.94	28.9	94.4	7.25**Error! Not a valid**	2.25

Laboratory Analysis

Name	Reading	Units	Date
Aluminium	0.058	mg/L	6/06/24
Ammonia	0.01	mg/L	6/06/24
Arsenic III	<4	mg/L	6/06/24
Arsenic V	<4	mg/L	6/06/24
Cadmium	<0.0002	mg/L	6/06/24
Chromium (Trivalent)	<0.001	mg/L	6/06/24
Chromium (VI) Compounds	<0.001	mg/L	6/06/24
Copper	0.001	mg/L	6/06/24
Iron	0.052	mg/L	6/06/24
Lead	<0.0002	mg/L	6/06/24
Manganese	0.011	mg/L	6/06/24
Nickel	<0.0005	mg/L	6/06/24
pH	8.06	pH units	6/06/24
Selenium	<0.002	mg/L	6/06/24
Total Suspended Solids	<5	mg/L	6/06/24
Vanadium	0.0021	mg/L	6/06/24
Zinc	<0.005	mg/L	6/06/24

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
19.6	0.5	18.80	7.93	27.9	96.3	7.39	2.25

Laboratory Analysis

Name	Reading	Units	Date
Aluminium	0.082	mg/L	6/06/24
Ammonia	0.018	mg/L	6/06/24
Arsenic III	<4	mg/L	6/06/24
Arsenic V	<4	mg/L	6/06/24
Cadmium	<0.0002	mg/L	6/06/24
Chromium (Trivalent)	<0.001	mg/L	6/06/24
Chromium (VI) Compounds	<0.001	mg/L	6/06/24
Copper	0.001	mg/L	6/06/24
Iron	0.062	mg/L	6/06/24
Lead	<0.0002	mg/L	6/06/24
Manganese	0.0137	mg/L	6/06/24
Nickel	<0.0005	mg/L	6/06/24
pH	8.04	pH units	6/06/24
Selenium	<0.002	mg/L	6/06/24
Total Suspended Solids	<5	mg/L	6/06/24
Vanadium	0.0022	mg/L	6/06/24
Zinc	<0.005	mg/L	6/06/24

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
19.6	0.5	16.66	8.20	30.2	102.4	8.12	3.25

Laboratory Analysis

Name	Reading	Units	Date
Aluminium	0.039	mg/L	06/06/24
Ammonia	0.019	mg/L	06/06/24
Arsenic III	<4	mg/L	06/06/24
Arsenic V	<4	mg/L	06/06/24
Cadmium	<0.0002	mg/L	06/06/24
Chromium (Trivalent)	<0.001	mg/L	06/06/24
Chromium (VI) Compounds	<0.001	mg/L	06/06/24
Copper	<0.001	mg/L	06/06/24
Iron	0.026	mg/L	06/06/24
Lead	<0.0002	mg/L	06/06/24
Manganese	0.0053	mg/L	06/06/24
Nickel	<0.0005	mg/L	06/06/24
pH	8.04	pH units	06/06/24
Selenium	<0.002	mg/L	06/06/24
Total Suspended Solids	<5	mg/L	06/06/24
Vanadium	0.0019	mg/L	06/06/24
Zinc	<0.005	mg/L	06/06/24

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
19.6	0.5	20.92	7.87	28.7	101.0	7.40	2.25

Laboratory Analysis

Name	Reading	Units	Date
Aluminium	0.09	mg/L	06/06/24
Ammonia	0.009	mg/L	06/06/24
Arsenic III	<4	mg/L	06/06/24
Arsenic V	<4	mg/L	06/06/24
Cadmium	<0.0002	mg/L	06/06/24
Chromium (Trivalent)	<0.001	mg/L	06/06/24
Chromium (VI) Compounds	<0.001	mg/L	06/06/24
Copper	0.001	mg/L	06/06/24
Iron	0.084	mg/L	06/06/24
Lead	<0.0002	mg/L	06/06/24
Manganese	0.0102	mg/L	06/06/24
Nickel	0.0005	mg/L	06/06/24
pH	8.02	pH units	06/06/24
Selenium	<0.002	mg/L	06/06/24
Total Suspended Solids	<5	mg/L	06/06/24
Vanadium	0.0021	mg/L	06/06/24
Zinc	<0.005	mg/L	06/06/24

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	0.485	mg/L	-	06/06/24
Ammonia	1.69	mg/L	-	06/06/24
Arsenic III	0.011	mg/L	-	06/06/24
Arsenic V	0.0101	mg/L	-	06/06/24
Cadmium	0.00006	mg/L	-	06/06/24
Chromium (Trivalent)	<0.001	mg/L	-	06/06/24
Chromium (VI) Compounds	<0.01	mg/L	-	06/06/24
Copper	0.004	mg/L	-	06/06/24
Iron	0.232	mg/L	-	06/06/24
Lead	0.0004	mg/L	-	06/06/24
Manganese	0.0966	mg/L	-	06/06/24
Nickel	0.0023	mg/L	-	06/06/24
Nitrite and Nitrate as N	3.44	mg/L	-	06/06/24
Nitrogen	5.5	mg/L	-	06/06/24
pH	8.04	pH units	-	06/06/24
Phosphorus as P	0.36	mg/L	-	06/06/24
Reactive Phosphorus as P	0.35	mg/L	-	06/06/24
Selenium	0.0315	mg/L	-	06/06/24
Total Kjeldahl Nitrogen	2.1	mg/L	-	06/06/24
Total Suspended Solids	26	mg/L	-	06/06/24
Vanadium	0.0654	mg/L	-	06/06/24
Zinc	0.006	mg/L	-	06/06/24

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	0.096	mg/L	-	06/06/24
Ammonia	0.026	mg/L	-	06/06/24
Arsenic III	<0.0004	mg/L	-	06/06/24
Arsenic V	<0.0004	mg/L	-	06/06/24
Cadmium	<0.0002	mg/L	-	06/06/24
Chromium (Trivalent)	<0.001	mg/L	-	06/06/24
Chromium (VI) Compounds	<0.01	mg/L	-	06/06/24
Copper	0.001	mg/L	-	06/06/24
Iron	0.117	mg/L	-	06/06/24
Lead	<0.0002	mg/L	-	06/06/24
Manganese	0.0098	mg/L	-	06/06/24
Nickel	<0.0005	mg/L	-	06/06/24
pH	7.98	pH units	-	06/06/24
Selenium	<0.001	mg/L	-	06/06/24
Total Suspended Solids	38	mg/L	-	06/06/24
Vanadium	0.0021	mg/L	-	06/06/24
Zinc	<0.005	mg/L	-	06/06/24
Dissolved Oxygen	6.99	mg/L	-	06/06/24
Field Temperature	18	degC	-	06/06/24
Salinity	30.27	ppt	-	06/06/24
Secchi Disk	2.25	m	-	06/06/24
Temperature – Average	16.67	deg C	-	June 24
Temperature – Minimum	14.74	deg C	-	June 24
Temperature - Maximum	19.05	deg C	-	June 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	06/06/24
Iron	0.121	mg/L	0.3	06/06/24
Selenium	<0.001	mg/L	0.002	06/06/24

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	25.00	deg C	35.5	37.5	38.5	June 24
Temperature – Minimum	19.48	deg C				June 24
Temperature - Maximum	29.08	deg C				June 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	46.97	ML	150	June 24
Monthly Discharge from Ash Dam	329.61	ML	-	June 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	0.116	mg/L	-	06/06/24
Ammonia	2.41	mg/L	-	06/06/24
Arsenic III	0.002	mg/L	-	06/06/24
Arsenic V	0.0009	mg/L	-	06/06/24
Cadmium	<0.00005	mg/L	-	06/06/24
Chromium (Trivalent)	<0.001	mg/L	-	06/06/24
Chromium (VI) Compounds	<0.01	mg/L	-	06/06/24
Copper	<0.0005	mg/L	-	06/06/24
Iron	5.18	mg/L	-	06/06/24
Lead	<0.0001	mg/L	-	06/06/24
Manganese	0.847	mg/L	-	06/06/24
Nickel	0.0022	mg/L	-	06/06/24
Nitrite and Nitrate as N	0.301	mg/L	-	06/06/24
Nitrogen	2.56	mg/L	-	06/06/24
pH	6.90	pH units	6-9.5	06/06/24
Phosphorus as P	0.18	mg/L	-	06/06/24
Reactive Phosphorus as P	0.01	mg/L	-	06/06/24
Selenium	0.0003	mg/L	-	06/06/24
Total Kjeldahl Nitrogen	2.26	mg/L	-	06/06/24
Total Suspended Solids	21	mg/L	50	06/06/24
Vanadium	0.0007	mg/L	-	06/06/24
Zinc	0.003	mg/L	-	06/06/24

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	1.13	mg/L	-	06/06/24
Ammonia	0.12	mg/L	-	06/06/24
Arsenic III	<0.0005	mg/L	-	06/06/24
Arsenic V	<0.0005	mg/L	-	06/06/24
Cadmium	<0.00005	mg/L	-	06/06/24
Chromium (Trivalent)	<0.001	mg/L	-	06/06/24
Chromium (VI) Compounds	<0.01	mg/L	-	06/06/24
Copper	0.0013	mg/L	-	06/06/24
Iron	1.7	mg/L	-	06/06/24
Lead	0.0008	mg/L	-	06/06/24
Manganese	0.0653	mg/L	-	06/06/24
Nickel	0.0022	mg/L	-	06/06/24
Nitrite and Nitrate as N	0.016	mg/L	-	06/06/24
Nitrogen	0.64	mg/L	-	06/06/24
pH	6.55	pH units	6-9.5	06/06/24
Phosphorus as P	0.016	mg/L	-	06/06/24
Reactive Phosphorus as P	0.004	mg/L	-	06/06/24
Selenium	0.0004	mg/L	-	06/06/24
Total Kjeldahl Nitrogen	0.62	mg/L	-	06/06/24
Total Suspended Solids	15	mg/L	50	06/06/24
Vanadium	0.0022	mg/L	-	06/06/24
Zinc	0.011	mg/L	-	06/06/24

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