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

Environmental Monitoring Data August 2025



Compliance Summary:

Were all EPL monitoring limits met	Yes

Details of EPL Non- compliances

EPA Identification no.	Type of Monitoring Point	Type of Discharge Point	Reading	Units	Licence Limit	Date	Comments

EPL1429 Environment Protection Licence monitoring locations are shown here
https://www.originenergy.com.au/wp-content/uploads/3/Eraring_Power_Station_EPL_Monitoring_Locations_Map.pdf

Unit 1 Boiler Continuous Emission Monitoring Summary

EPA Identification no.3 - Air emissions monitoring, Boiler 1 stack discharge to air
Unit 1 offline 6-19 August 2025

	NOx			SO_2		
	mg/Nm^3 (7% O_2)			mg/Nm^3 (7% O_2)		
	Daily Ave	Daily Max Hourly Average	Daily Min Hourly Average	Daily Ave	Daily Max Hourly Average	Daily Min Hourly Average
01/08/2025	449	495	376	616	870	478
02/08/2025	424	553	322	606	795	391
03/08/2025	405	477	316	606	863	475
04/08/2025	381	423	288	651	847	433
05/08/2025	339	339	339	543	543	543
06/08/2025	-	-	-	-	-	-
07/08/2025	-	-	-	-	-	-
08/08/2025	-	-	-	-	-	-
09/08/2025	-	-	-	-	-	-
10/08/2025	-	-	-	-	-	-
11/08/2025	-	-	-	-	-	-
12/08/2025	-	-	-	-	-	-
13/08/2025	-	-	-	-	-	-
14/08/2025	-	-	-	-	-	-
15/08/2025	-	-	-	-	-	-
16/08/2025	-	-	-	-	-	-
17/08/2025	-	-	-	-	-	-
18/08/2025	-	-	-	-	-	-
19/08/2025	-	-	-	-	-	-
20/08/2025	454	576	321	595	882	457
21/08/2025	457	542	350	599	770	451
22/08/2025	462	511	368	626	872	377
23/08/2025	449	525	371	580	834	362
24/08/2025	426	498	348	561	736	358
25/08/2025	411	486	325	570	795	448
26/08/2025	468	637	354	620	796	397
27/08/2025	370	451	239	590	784	430
28/08/2025	426	517	338	622	776	504
29/08/2025	428	507	345	620	728	425
30/08/2025	466	534	369	610	751	397
31/08/2025	451	543	377	600	781	430

Unit 2 Boiler Continuous Emission Monitoring Summary

EPA Identification no. 4 - Air emissions monitoring, Boiler 2 stack discharge to air
Unit 2 offline 23-31 August 2025

	NOx			SO_2		
	mg/Nm^3 (7% O_2)			mg/Nm^3 (7% O_2)		
	Daily Ave	Daily Max Hourly Average	Daily Min Hourly Average	Daily Ave	Daily Max Hourly Average	Daily Min Hourly Average
01/08/2025	414	471	347	562	699	501
02/08/2025	366	432	306	614	716	518
03/08/2025	391	490	301	561	702	491
04/08/2025	383	456	347	606	769	538
05/08/2025	394	448	336	595	706	553
06/08/2025	325	383	277	542	648	483
07/08/2025	408	444	342	559	587	521
08/08/2025	415	487	341	587	668	497
09/08/2025	382	460	305	554	590	497
10/08/2025	375	445	341	518	575	478
11/08/2025	374	444	337	548	604	497
12/08/2025	374	439	345	573	732	507
13/08/2025	360	452	311	501	568	455
14/08/2025	357	443	295	523	659	425
15/08/2025	348	438	268	589	688	505
16/08/2025	373	506	273	568	637	505
17/08/2025	327	416	251	573	690	517
18/08/2025	392	455	304	588	737	527
19/08/2025	406	467	330	553	649	521
20/08/2025	372	426	286	557	701	517
21/08/2025	396	502	309	592	704	521
22/08/2025	334	334	334	657	657	657
23/08/2025	-	-	-	-	-	-
24/08/2025	-	-	-	-	-	-
25/08/2025	-	-	-	-	-	-
26/08/2025	-	-	-	-	-	-
27/08/2025	-	-	-	-	-	-
28/08/2025	-	-	-	-	-	-
29/08/2025	-	-	-	-	-	-
30/08/2025	-	-	-	-	-	-
31/08/2025	-	-	-	-	-	-

Unit 3 Boiler Continuous Emission Monitoring Summary

EPA Identification no. 5 - Air emissions monitoring, Boiler 3 stack discharge to air

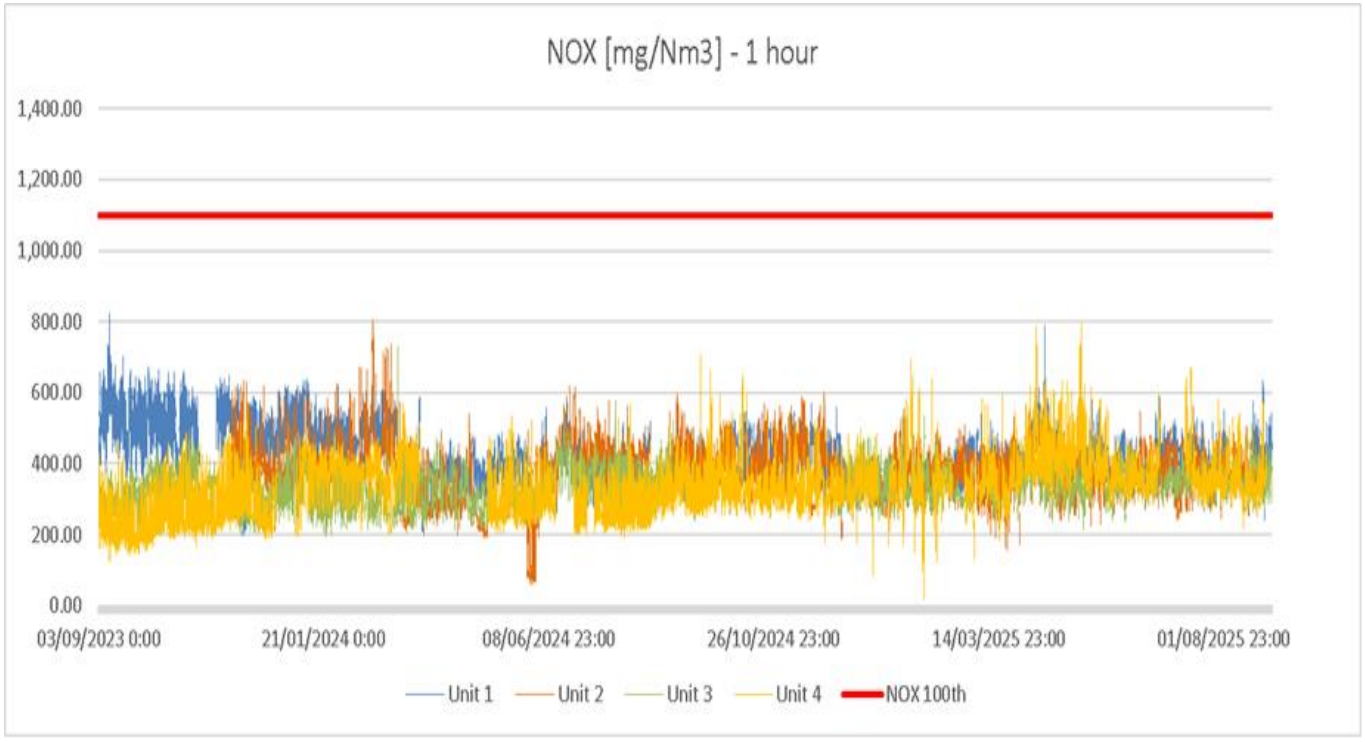
	NOx			SO_2		
	mg/Nm^3 (7% O_2)			mg/Nm^3 (7% O_2)		
	Daily Ave	Daily Max Hourly Average	Daily Min Hourly Average	Daily Ave	Daily Max Hourly Average	Daily Min Hourly Average
01/08/2025	334	365	303	695	761	667
02/08/2025	341	374	287	716	800	522
03/08/2025	358	389	312	678	740	543
04/08/2025	335	359	298	748	798	591
05/08/2025	332	355	302	720	749	599
06/08/2025	332	354	293	689	812	625
07/08/2025	377	407	322	684	754	478
08/08/2025	392	430	354	708	841	516
09/08/2025	372	442	307	678	723	480
10/08/2025	378	418	340	647	707	444
11/08/2025	345	374	333	651	687	475
12/08/2025	365	404	304	706	804	604
13/08/2025	340	374	288	609	707	431
14/08/2025	326	374	285	578	688	507
15/08/2025	339	386	299	719	790	553
16/08/2025	378	469	275	672	733	539
17/08/2025	334	442	264	684	729	543
18/08/2025	362	440	291	688	755	499
19/08/2025	403	516	297	663	686	626
20/08/2025	395	448	264	669	698	592
21/08/2025	394	448	302	675	746	589
22/08/2025	373	429	252	702	835	556
23/08/2025	364	429	287	671	736	535
24/08/2025	361	418	275	661	701	512
25/08/2025	361	418	284	642	679	544
26/08/2025	343	416	287	691	732	609
27/08/2025	304	333	279	633	687	531
28/08/2025	361	437	301	625	849	552
29/08/2025	384	442	286	645	677	525
30/08/2025	380	452	304	660	693	558
31/08/2025	373	433	288	662	710	567

Unit 4 Boiler Continuous Emission Monitoring Summary -

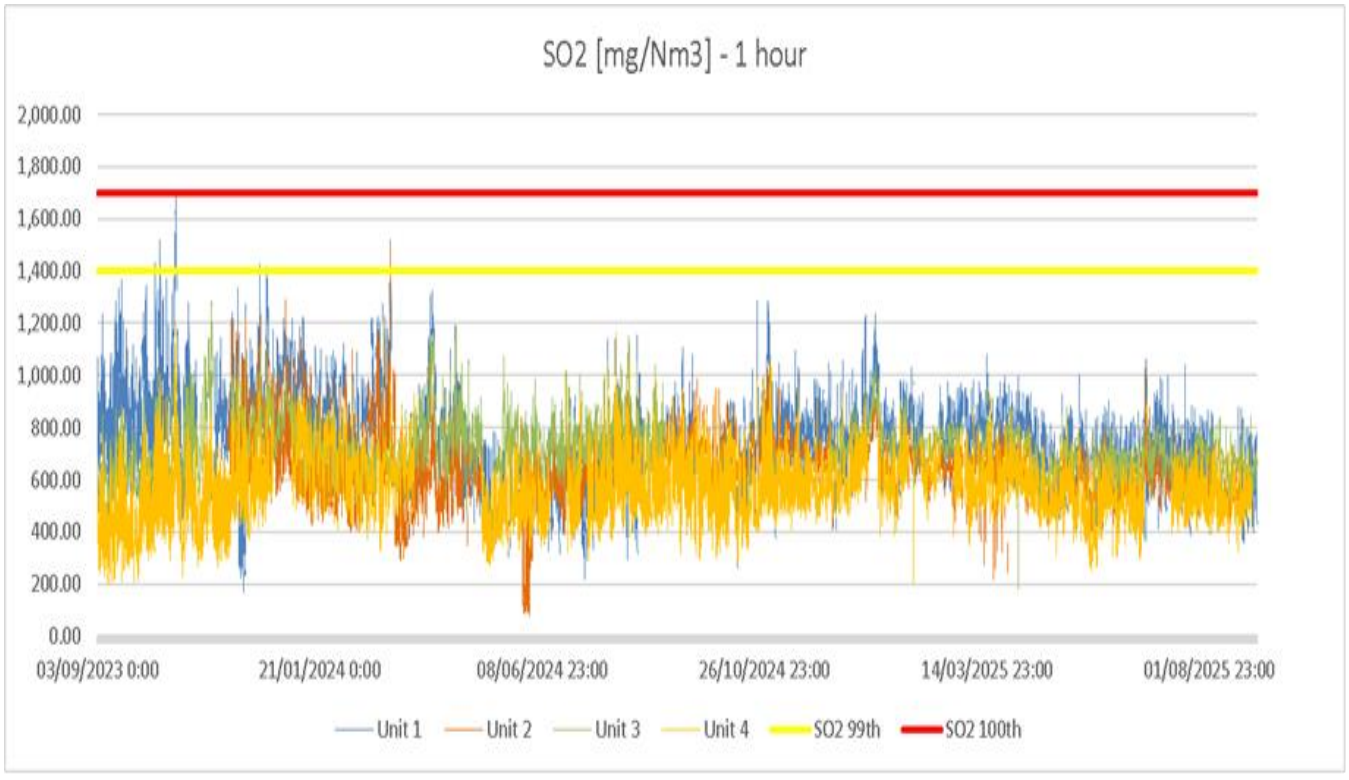
EPA Identification no. 6 - Air emissions monitoring, Boiler 4 stack discharge to air
Unit 4 offline 29-31 August 2025

	NOx			SO_2		
	mg/Nm^3 (7% O_2)			mg/Nm^3 (7% O_2)		
	Daily Ave	Daily Max Hourly Average	Daily Min Hourly Average	Daily Ave	Daily Max Hourly Average	Daily Min Hourly Average
01/08/2025	344	400	298	476	676	411
02/08/2025	343	444	291	523	642	408
03/08/2025	389	495	304	540	699	389
04/08/2025	410	470	351	575	728	478
05/08/2025	401	504	345	578	728	456
06/08/2025	318	369	277	542	738	418
07/08/2025	362	534	294	469	619	404
08/08/2025	349	413	298	537	731	400
09/08/2025	363	452	303	510	666	421
10/08/2025	369	511	306	485	567	418
11/08/2025	383	544	324	506	587	443
12/08/2025	360	491	301	548	712	434
13/08/2025	312	346	263	470	540	391
14/08/2025	285	328	218	457	712	353
15/08/2025	357	479	278	569	724	411
16/08/2025	378	501	301	541	622	463
17/08/2025	317	386	275	548	664	426
18/08/2025	333	391	291	508	687	359
19/08/2025	344	409	308	472	584	368
20/08/2025	323	377	273	500	664	320
21/08/2025	315	400	267	518	679	425
22/08/2025	301	354	264	480	626	396
23/08/2025	339	422	273	541	686	427
24/08/2025	347	475	296	535	664	466
25/08/2025	369	483	281	542	650	431
26/08/2025	397	573	291	570	710	449
27/08/2025	355	385	319	526	621	463
28/08/2025	399	452	349	538	607	410
29/08/2025	-	-	-	-	-	-
30/08/2025	-	-	-	-	-	-
31/08/2025	-	-	-	-	-	-

Continuous Emission Monitoring Summary NOx Data



Continuous Emission Monitoring Summary SO_2 Data



Unit 1 Boiler Emission Test Results

EPA Identification no.3 – Air emissions monitoring, Boiler 1 stack discharge to air

Name	Frequency	Reading	Units	Licence Limit	Date
Chlorine	6 monthly	0.05	mg/m^3	4	10/12/2024
Fluorine	6 monthly	8	mg/m^3	30	10/12/2024
Hydrogen chloride	6 monthly	9.6	mg/m^3	50	10/12/2024
Solid Particles	Quarterly	2.2	mg/m^3	50	29/07/2025
Sulfuric acid mist and sulfur trioxide (as SO_3)	6 monthly	1	mg/m^3	100	10/12/2024
Volatile organic compounds as n-	6 monthly	<0.07	mg/m^3	8	10/12/2024
Cadmium	6 monthly	0.00048	mg/m^3	0.03	29/07/2025
Mercury	6 monthly	<0.00006	mg/m^3	0.03	29/07/2025
Type 1 and 2 substances in Aggregate	6 monthly	≤0.01	mg/m^3	0.60	29/07/2025

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

Name	Frequency	Reading	Units	Licence Limit	Date
Flow Rate	6 monthly	460	m^3/sec	-	29/07/2025
Moisture	6 monthly	5	%	-	29/07/2025
Oxygen	6 monthly	7.2	%	-	29/07/2025
Solid Particles	Quarterly	1.5	mg/m^3	-	29/07/2025
Temperature	6 monthly	124	Deg C	-	29/07/2025
Carbon dioxide	6 monthly	12.9	%	-	29/07/2025
Chlorine	6 monthly	<0.03	mg/m^3	-	29/04/2025
Fluorine	6 monthly	8.5	mg/m^3	-	29/04/2025
Hydrogen chloride	6 monthly	7.2	mg/m^3	-	29/04/2025
Sulfuric acid mist and sulfur trioxide (as SO_3)	6 monthly	1.9	mg/m^3	-	29/04/2025
Volatile organic compounds as n-	6 monthly	0.11	mg/m^3	-	29/04/2025
Cadmium	6 monthly	0.0008	mg/m^3	-	29/07/2025
Mercury	6 monthly	<0.00005	mg/m^3	-	29/07/2025
Type 1 and Type 2 substances in	6 monthly	<0.015	mg/m^3	-	29/07/2025

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

Name	Frequency	Reading	Units	Licence Limit	Date
Flow Rate		360	m^3/sec	-	29/07/2025
Moisture		4.9	%	-	29/07/2025
Oxygen		6.9	%	-	29/07/2025
Solid Particles	Quarterly	3.1	mg/m^3	-	29/07/2025
Temperature		125	Deg C	-	29/07/2025
Cadmium	6 monthly	0.000065	mg/m^3	-	26/07/2025
Mercury	6 monthly	<0.00007	mg/m^3	-	26/07/2025
Type 1 and Type 2 substances in Aggregate	6 monthly	≤0.014	mg/m^3	-	26/07/2025

Unit 2 Boiler Emission Test Results

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

Name	Frequency	Reading	Units	Licence Limit	Date
Chlorine	6 monthly	<0.02	mg/m^3	4	9/01/2025
Fluorine	6 monthly	8.5	mg/m^3	30	9/01/2025
Hydrogen chloride	6 monthly	6.2	mg/m^3	50	9/01/2025
Solid Particles	Quarterly	20.0	mg/m^3	50	30/07/2025
Sulfuric acid mist and sulfur trioxide (as SO_3)	6 monthly	2.7	mg/m^3	100	9/01/2025
Volatile organic compounds as n-	6 monthly	<0.1	mg/m^3	8	9/01/2025
Cadmium	6 monthly	0.00027	mg/m^3	0.03	30/07/2025
Mercury	6 monthly	0.00008	mg/m^3	0.03	30/07/2025
Type 1 and 2 substances in Aggregate	6 monthly	<0.03	mg/m^3	0.60	30/07/2025

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

Name	Frequency	Reading	Units	Licence Limit	Date
Flow Rate	6 monthly	390	m^3/sec	-	30/07/2025
Moisture	6 monthly	4.6	%	-	30/07/2025
Oxygen	6 monthly	6.7	%	-	30/07/2025
Solid Particles	Quarterly	21	mg/m^3	-	30/07/2025
Temperature	6 monthly	110	Deg C	-	30/07/2025
Carbon dioxide	6 monthly	13.1	%	-	30/07/2025
Chlorine	6 monthly	<0.01	mg/m^3	-	30/04/2025
Fluorine	6 monthly	10	mg/m^3	-	30/04/2025
Hydrogen chloride	6 monthly	9.2	mg/m^3	-	30/04/2025
Sulfuric acid mist and sulfur trioxide (as SO_3)	6 monthly	3.6	mg/m^3	-	30/04/2025
Volatile organic compounds as n-	6 monthly	<0.06	mg/m^3	-	30/04/2025
Cadmium	6 monthly	0.00017	mg/m^3	-	30/07/2025
Mercury	6 monthly	0.00011	mg/m^3	-	30/07/2025
Type 1 and Type 2 substances in	6 monthly	<0.033	mg/m^3	-	30/07/2025

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

Name	Frequency	Reading	Units	Licence Limit	Date
Flow Rate		440	m^3/sec	-	30/07/2025
Moisture		6.2	%	-	30/07/2025
Oxygen		5.6	%	-	30/07/2025
Solid Particles	Quarterly	20	mg/m^3	-	30/07/2025
Temperature		119	Deg C	-	30/07/2025
Cadmium	6 monthly	0.00035	mg/m^3	-	30/07/2025
Mercury	6 monthly	0.000045	mg/m^3	-	30/07/2025
Type 1 and Type 2 substances in Aggregate	6 monthly	<0.018	mg/m^3	-	30/07/2025

Unit 3 Boiler Emission Test Results					
EPA Identification No 5 – Air Emissions monitoring, Boiler 3 stack discharge to air					
Name	**Frequency**	**Reading**	**Units**	**Licence Limit**	**Date**
Chlorine	6 monthly	0.046	mg/m^3	4	11/12/2024
Fluorine	6 monthly	9.7	mg/m^3	30	11/12/2024
Hydrogen chloride	6 monthly	15	mg/m^3	50	11/12/2024
Solid Particles	Quarterly	2.0	mg/m^3	50	31/07/2025
Sulfuric acid mist and sulfur trioxide (as SO_3)	6 monthly	1.2	mg/m^3	100	11/12/2024
Volatile organic compounds as n-propane equivalent	6 monthly	<0.08	mg/m^3	8	11/12/2024
Cadmium	6 monthly	0.00027	mg/m^3	0.03	31/07/2025
Mercury	6 monthly	<0.00004	mg/m^3	0.03	31/07/2025
Type 1 and 2 substances in Aggregate	6 monthly	≤0.01	mg/m^3	0.60	31/07/2025

EPA Identification No 11 – Air Emissions monitoring, Boiler 3 Exhaust Duct A					
Name	**Frequency**	**Reading**	**Units**	**Licence Limit**	**Date**
Flow Rate	6 monthly	430	m^3/sec	-	31/07/2025
Moisture	6 monthly	6.2	%	-	31/07/2025
Oxygen	6 Monthly	7	%	-	31/07/2025
Solid Particles	Quarterly	2.3	mg/m^3	-	31/07/2025
Temperature	6 monthly	110	Deg C	-	31/07/2025
Carbon dioxide	6 monthly	13	%	-	31//2025
Chlorine	6 monthly	0.18	mg/m^3	-	1/05/2025
Fluorine	6 monthly	16	mg/m^3	-	1/05/2025
Hydrogen chloride	6 monthly	11	mg/m^3	-	1/05/2025
Sulfuric acid mist and sulfur trioxide (as SO_3)	6 monthly	2.1	mg/m^3	-	1/05/2025
Volatile organic compounds as n-propane equivalent	6 monthly	<0.06	mg/m^3	-	1/05/2025
Cadmium	6 monthly	0.0004	mg/m^3	-	31/07/2025
Mercury	6 monthly	<0.00004	mg/m^3	-	31/07/2025
Type 1 and Type 2 substances in Aggregate	6 monthly	<0.012	mg/m^3	-	31/07/2025

EPA Identification No 12 – Air Emissions monitoring, Boiler 3 Exhaust Duct B					
Name	**Frequency**	**Reading**	**Units**	**Licence Limit**	**Date**
Flow Rate		350	m^3/sec	-	31/07/2025
Moisture		5.8	%	-	31/07/2025
Oxygen		5.7	%	-	31/07/2025
Solid Particles	Quarterly	1.6	mg/m^3	-	31/07/2025
Temperature		108	Deg C	-	31/07/2025
Cadmium	6 monthly	0.00012	mg/m^3	-	31/07/2025
Mercury	6 monthly	<0.00005	mg/m^3	-	31/07/2025
Type 1 and Type 2 substances in Aggregate	6 monthly	≤0.013	mg/m^3	-	31/07/2025

Unit 4 Boiler Emission Test Results

EPA Identification no.6 – Air emissions monitoring, Boiler 4 stack discharge to air

Name	Frequency	Reading	Units	Licence Limit	Date
Chlorine	6 monthly	<0.01	mg/m^3	4	12-13/12/2024
Fluorine	6 monthly	11	mg/m^3	30	12-13/12/2024
Hydrogen chloride	6 monthly	8.5	mg/m^3	50	12-13/12/2024
Solid Particles	Quarterly	6.6	mg/m^3	50	01/08/2025
Sulfuric acid mist and sulfur trioxide (as SO_3)	6 monthly	2.1	mg/m^3	100	12-13/12/2024
Volatile organic compounds as n-	6 monthly	0.11	mg/m^3	8	12-13/12/2024
Cadmium	6 monthly	0.00009	mg/m^3	0.03	01/08/2025
Mercury	6 monthly	<0.00006	mg/m^3	0.03	01/08/2025
Type 1 and 2 substances in Aggregate	6 monthly	≤0.02	mg/m^3	0.60	01/08/2025

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

Name	Frequency	Reading	Units	Licence Limit	Date
Flow Rate	6 monthly	380	m^3/sec	-	01/08/2025
Moisture	6 monthly	5	%	-	01/08/2025
Oxygen	6 monthly	7.2	%	-	01/08/2025
Solid Particles	Quarterly	6.9	mg/m^3	-	01/08/2025
Temperature	6 monthly	121	Deg C	-	01/08/2025
Carbon dioxide	6 monthly	12.8	%	-	01/08/2025
Chlorine	6 monthly	<0.03	mg/m^3	-	2/05/2025
Fluorine	6 monthly	17	mg/m^3	-	2/05/2025
Hydrogen chloride	6 monthly	14	mg/m^3	-	2/05/2025
Sulfuric acid mist and sulfur trioxide (as SO_3)	6 monthly	6.6	mg/m^3	-	2/05/2025
Volatile organic compounds as n-	6 monthly	<0.08	mg/m^3	-	2/05//2025
Cadmium	6 monthly	0.000087	mg/m^3	-	01/08/2025
Mercury	6 monthly	<0.00007	mg/m^3	-	01/08/2025
Type 1 and Type 2 substances in	6 monthly	<0.019	mg/m^3	-	01/08/2025

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

Name	Frequency	Reading	Units	Licence Limit	Date
Flow Rate		450	m^3/sec	-	01/08/2025
Moisture		5	%	-	01/08/2025
Oxygen		6.4	%	-	01/08/2025
Solid Particles	Quarterly	6.3	mg/m^3	-	01/08/2025
Temperature		119	Deg C	-	01/08/2025
Cadmium	6 monthly	0.0001	mg/m^3	-	01/08/2025
Mercury	6 monthly	<0.00005	mg/m^3	-	01/08/2025
Type 1 and Type 2 substances in Aggregate	6 monthly	≤0.019	mg/m^3	-	01/08/2025

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**		**Sechi**
^{0}C	m	^{0}C	pH unit	ppt	%	mg/L	m
14.12	0.5	15.53	8.03	38.25	95.8	7.53	4.0

	Laboratory Analysis			
Name	**Reading**	**Units**	**Licence Limit**	**Date**
Aluminium	0.032	mg/L	-	12/08/25
Ammonia	<0.005	mg/L	-	12/08/25
Arsenic III	<0.004	mg/L	-	12/08/25
Arsenic V	<0.004	mg/L	-	12/08/25
Cadmium	<0.0002	mg/L	-	12/08/25
Chromium (Trivalent)	<0.001	mg/L	-	12/08/25
Chromium (VI) Compounds	<0.001	mg/L	-	12/08/25
Copper	0.001	mg/L	-	12/08/25
Iron	0.031	mg/L	-	12/08/25
Lead	<0.0002	mg/L	-	12/08/25
Manganese	0.0040	mg/L	-	12/08/25
Nickel	<0.0005	mg/L	-	12/08/25
pH	8.05	pH units	-	12/08/25
Selenium	<0.002	mg/L	-	12/08/25
Total Suspended Solids	17	mg/L	-	12/08/25
Vanadium	0.0019	mg/L	-	12/08/25
Zinc	<0.005	mg/L	-	12/08/25

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
14.40	0.5	15.68	8.10	37.70	101.8	8.04	4.25

Laboratory Analysis				
Name	**Reading**	**Units**	**Licence Limits**	**Date**
Aluminium	0.05	mg/L	-	12/08/25
Ammonia	<0.005	mg/L	-	12/08/25
Arsenic III	<0.004	mg/L	-	12/08/25
Arsenic V	<0.004	mg/L	-	12/08/25
Cadmium	<0.0002	mg/L	-	12/08/25
Chromium (Trivalent)	<0.001	mg/L	-	12/08/25
Chromium (VI) Compounds	<0.001	mg/L	-	12/08/25
Copper	<0.001	mg/L	-	12/08/25
Iron	0.041	mg/L	-	12/08/25
Lead	<0.0002	mg/L	-	12/08/25
Manganese	0.0045	mg/L	-	12/08/25
Nickel	<0.0005	mg/L	-	12/08/25
pH	8.07	pH units	-	12/08/25
Selenium	<0.002	mg/L	-	12/08/25
Total Suspended Solids	6	mg/L	-	12/08/25
Vanadium	0.0019	mg/L	-	12/08/25
Zinc	<0.005	mg/L	-	12/08/25

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
11.3	0.5	14.22	8.20	25.90	113.8	10.12	1.75

Laboratory Analysis

Name	Reading	Units	Licence Limits	Date
Aluminium	0.27	mg/L	-	12/08/25
Ammonia	<0.005	mg/L	-	12/08/25
Arsenic III	<0.004	mg/L	-	12/08/25
Arsenic V	<0.004	mg/L	-	12/08/25
Cadmium	<0.0002	mg/L	-	12/08/25
Chromium (Trivalent)	<0.001	mg/L	-	12/08/25
Chromium (VI) Compounds	<0.001	mg/L	-	12/08/25
Copper	0.002	mg/L	-	12/08/25
Iron	0.186	mg/L	-	12/08/25
Lead	0.0004	mg/L	-	12/08/25
Manganese	0.0155	mg/L	-	12/08/25
Nickel	<0.0005	mg/L	-	12/08/25
pH	8.15	pH units	-	12/08/25
Selenium	<0.002	mg/L	-	12/08/25
Total Suspended Solids	14	mg/L	-	12/08/25
Vanadium	0.0016	mg/L	-	12/08/25
Zinc	0.011	mg/L	-	12/08/25

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
12.81	0.5	16.35	8.08	29.31	108.9	8.96	1.75

Laboratory Analysis

Name	Reading	Units	Licence Limits	Date
Aluminium	0.305	mg/L	-	12/08/25
Ammonia	<0.005	mg/L	-	12/08/25
Arsenic III	<0.004	mg/L	-	12/08/25
Arsenic V	<0.004	mg/L	-	12/08/25
Cadmium	<0.0002	mg/L	-	12/08/25
Chromium (Trivalent)	<0.001	mg/L	-	12/08/25
Chromium (VI) Compounds	<0.001	mg/L	-	12/08/25
Copper	0.001	mg/L	-	12/08/25
Iron	0.44	mg/L	-	12/08/25
Lead	0.0002	mg/L	-	12/08/25
Manganese	0.0124	mg/L	-	12/08/25
Nickel	0.0008	mg/L	-	12/08/25
pH	8.00	pH units	-	12/08/25
Selenium	<0.002	mg/L	-	12/08/25
Total Suspended Solids	14	mg/L	-	12/08/25
Vanadium	0.0021	mg/L	-	12/08/25
Zinc	<0.005	mg/L	-	12/08/25

Eraring Ash Dam Water Quality Monitoring

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

Name	Reading	Units	Licence Limit	Date
Aluminium	0.165	mg/L	-	8/08/25
Ammonia	1.30	mg/L	-	8/08/25
Arsenic III	<0.0005	mg/L	-	8/08/25
Arsenic V	0.0091	mg/L	-	8/08/25
Cadmium	<0.00005	mg/L	-	8/08/25
Chromium (Trivalent)	0.001	mg/L	-	8/08/25
Chromium (VI) Compounds	<0.01	mg/L	-	8/08/25
Copper	0.0025	mg/L	-	8/08/25
Iron	0.049	mg/L	-	8/08/25
Lead	<0.0001	mg/L	-	8/08/25
Manganese	0.138	mg/L	-	8/08/25
Nickel	0.0017	mg/L	-	8/08/25
Nitrite and Nitrate as N	3.85	mg/L	-	8/08/25
Nitrogen	5.4	mg/L	-	8/08/25
pH	7.67	pH units	-	8/08/25
Phosphorus as P	0.22	mg/L	-	8/08/25
Reactive Phosphorus as P	0.20	mg/L	-	8/08/25
Selenium	0.0436	mg/L	-	8/08/25
Total Kjeldahl Nitrogen	1.6	mg/L	-	8/08/25
Total Suspended Solids	6	mg/L	-	8/08/25
Vanadium	0.0762	mg/L	-	8/08/25
Zinc	0.003	mg/L	-	8/08/25

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	0.061	mg/L	-	8/08/25
Ammonia	<0.005	mg/L	-	8/08/25
Arsenic III	<0.0004	mg/L	-	8/08/25
Arsenic V	<0.0004	mg/L	-	8/08/25
Cadmium	<0.0002	mg/L	-	8/08/25
Chromium (Trivalent)	<0.001	mg/L	-	8/08/25
Chromium (VI) Compounds	<0.01	mg/L	-	8/08/25
Copper	0.0011	mg/L	-	8/08/25
Iron	0.073	mg/L	-	8/08/25
Lead	<0.0002	mg/L	-	8/08/25
Manganese	0.0049	mg/L	-	8/08/25
Nickel	0.0006	mg/L	-	8/08/25
pH	8.10	pH units	-	8/08/25
Selenium	<0.001	mg/L	-	8/08/25
Total Suspended Solids	21	mg/L	-	8/08/25
Vanadium	0.0019	mg/L	-	8/08/25
Zinc	<0.005	mg/L	-	8/08/25
Dissolved Oxygen	8.5	mg/L	-	8/08/25
Field Temperature	15.8	degC	-	8/08/25
Salinity	29.77	ppt	-	8/08/25
Secchi Disk	2.75	m	-	8/08/25
Temperature – Average	16.09	deg C	-	August 25
Temperature – Minimum	14.38	deg C	-	August 25
Temperature - Maximum	19.24	deg C	-	August 25

Eraring Cooling Water Outlet Canal

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

Name	Reading	Units	Licence Limit	Date
Copper	0.0015	mg/L	0.005	8/08/25
Iron	0.053	mg/L	0.3	8/08/25
Selenium	0.001	mg/L	0.002	8/08/25

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	23.86	deg C	35.5	37.5	38.5	August 25
Temperature – Minimum	17.74	deg C				August 25
Temperature - Maximum	28.36	deg C				August 25

Eraring Cooling Water Outlet Canal

EPA Identification no. 25 – Discharge from Ash Dam

Name	Reading	Units	Licence Limit	Date
Minimum Daily Discharge from Ash Dam	1.95	ML		August 2025
Average Daily Discharge from Ash Dam	18.57	ML		August 2025
Maximum Daily Discharge from Ash Dam	44.99	ML	150	August 2025
Monthly Discharge from Ash Dam	575.53	ML	-	August 2025

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	0.087	mg/L	-	8/08/25
Ammonia	2.33	mg/L	-	8/08/25
Arsenic III	0.0052	mg/L	-	8/08/25
Arsenic V	0.0014	mg/L	-	8/08/25
Cadmium	<0.00005	mg/L	-	8/08/25
Chromium (Trivalent)	<0.001	mg/L	-	8/08/25
Chromium (VI) Compounds	<0.01	mg/L	-	8/08/25
Copper	<0.0005	mg/L	-	8/08/25
Iron	7.54	mg/L	-	8/08/25
Lead	0.0001	mg/L	-	8/08/25
Manganese	0.960	mg/L	-	8/08/25
Nickel	0.0033	mg/L	-	8/08/25
Nitrite and Nitrate as N	0.033	mg/L	-	8/08/25
Nitrogen	2.87	mg/L	-	8/08/25
pH	6.84	pH units	6-9.5	8/08/25
Phosphorus as P	0.442	mg/L	-	8/08/25
Reactive Phosphorus as P	0.080	mg/L	-	8/08/25
Selenium	0.0002	mg/L	-	8/08/25
Total Kjeldahl Nitrogen	2.84	mg/L	-	8/08/25
Total Suspended Solids	26	mg/L	50	8/08/25
Vanadium	0.0009	mg/L	-	8/08/25
Zinc	0.003	mg/L	-	8/08/25

MR217

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

MR217 did not discharge in the month, background sampling only

Name	Reading	Units	Licence Limit	Date
Aluminium	1.16	mg/L	-	8/08/25
Ammonia	0.028	mg/L	-	8/08/25
Arsenic III	<0.0005	mg/L	-	8/08/25
Arsenic V	0.0008	mg/L	-	8/08/25
Cadmium	<0.00005	mg/L	-	8/08/25
Chromium (Trivalent)	0.002	mg/L	-	8/08/25
Chromium (VI) Compounds	<0.01	mg/L	-	8/08/25
Copper	0.0012	mg/L	-	8/08/25
Iron	1.94	mg/L	-	8/08/25
Lead	0.0006	mg/L	-	8/08/25
Manganese	0.0270	mg/L	-	8/08/25
Nickel	0.0012	mg/L	-	8/08/25
Nitrite and Nitrate as N	0.020	mg/L	-	8/08/25
Nitrogen	0.40	mg/L	-	8/08/25
pH	6.78	pH units	6-9.5	8/08/25
Phosphorus as P	0.029	mg/L	-	8/08/25
Reactive Phosphorus as P	0.006	mg/L	-	8/08/25
Selenium	0.0004	mg/L	-	8/08/25
Total Kjeldahl Nitrogen	0.38	mg/L	-	8/08/25
Total Suspended Solids	10	mg/L	50	8/08/25
Vanadium	0.0034	mg/L	-	8/08/25
Zinc	0.007	mg/L	-	8/08/25

Groundwater Monitoring
Groundwater Well – MW01

EPA Identification no. 32 – Groundwater Monitoring Well 01

Name	Reading	Units	Licence Limit	Date
Aluminium	0.177	mg/L	-	13/06/25
Ammonia	0.03	mg/L	-	13/06/25
Arsenic (III)	<0.0005	mg/L	-	13/06/25
Arsenic (V)	0.0007	mg/L	-	13/06/25
Cadmium	<0.00005	mg/L	-	13/06/25
Calcium	2	mg/L	-	13/06/25
Chromium (trivalent)	<0.01	mg/L	-	13/06/25
Chromium (VI) compounds	<0.01	mg/L	-	13/06/25
Copper	<0.0005	mg/L	-	13/06/25
Electrical Conductivity	448	uS/cm	-	13/06/25
Iron	0.904	mg/L	-	13/06/25
Lead	0.0008	mg/L	-	13/06/25
Magnesium	5	mg/L	-	13/06/25
Manganese	0.125	mg/L	-	13/06/25
Nickel	0.0053	mg/L	-	13/06/25
pH	5.16	pH units	-	13/06/25
Potassium	4	mg/L	-	13/06/25
Selenium	<0.0002	mg/L	-	13/06/25
Sodium	68	mg/L	-	13/06/25
Standing Water Level	6.09	m	-	13/06/25
Vanadium	0.0005	mg/L	-	13/06/25
Zinc	0.025	mg/L	-	13/06/25

Groundwater Monitoring
Groundwater Well – MW02

EPA Identification no. 33 – Groundwater Monitoring Well 02

Name	Reading	Units	Licence Limit	Date
Aluminium	0.264	mg/L	-	12/06/25
Ammonia	4.86	mg/L	-	12/06/25
Arsenic (III)	0.0006	mg/L	-	12/06/25
Arsenic (V)	0.0009	mg/L	-	12/06/25
Cadmium	0.00012	mg/L	-	12/06/25
Calcium	263	mg/L	-	12/06/25
Chromium (trivalent)	<0.01	mg/L	-	12/06/25
Chromium (VI) compounds	<0.01	mg/L	-	12/06/25
Copper	0.0011	mg/L	-	12/06/25
Electrical Conductivity	17100	uS/cm	-	12/06/25
Iron	8.910	mg/L	-	12/06/25
Lead	0.002	mg/L	-	12/06/25
Magnesium	302	mg/L	-	12/06/25
Manganese	0.649	mg/L	-	12/06/25
Nickel	0.0008	mg/L	-	12/06/25
pH	6.80	pH units	-	12/06/25
Potassium	132	mg/L	-	12/06/25
Selenium	0.0007	mg/L	-	12/06/25
Sodium	3560	mg/L	-	12/06/25
Standing Water Level	5.24	m	-	12/06/25
Vanadium	0.0028	mg/L	-	12/06/25
Zinc	0.039	mg/L	-	12/06/25

Groundwater Monitoring
Groundwater Well – MW06

EPA Identification no. 34 – Groundwater Monitoring Well 06

Name	Reading	Units	Licence Limit	Date
Aluminium	0.014	mg/L	-	10/06/25
Ammonia	3.67	mg/L	-	10/06/25
Arsenic (III)	0.008	mg/L	-	10/06/25
Arsenic (V)	0.008	mg/L	-	10/06/25
Cadmium	<0.00005	mg/L	-	10/06/25
Calcium	459	mg/L	-	10/06/25
Chromium (trivalent)	<0.01	mg/L	-	10/06/25
Chromium (VI) compounds	<0.01	mg/L	-	10/06/25
Copper	<0.0005	mg/L	-	10/06/25
Electrical Conductivity	20100	uS/cm	-	10/06/25
Iron	11.90	mg/L	-	10/06/25
Lead	0.0003	mg/L	-	10/06/25
Magnesium	248	mg/L	-	10/06/25
Manganese	0.405	mg/L	-	10/06/25
Nickel	0.0033	mg/L	-	10/06/25
pH	6.63	pH units	-	10/06/25
Potassium	118	mg/L	-	10/06/25
Selenium	0.0006	mg/L	-	10/06/25
Sodium	3320	mg/L	-	10/06/25
Standing Water Level	1.84	m	-	10/06/25
Vanadium	0.001	mg/L	-	10/06/25
Zinc	0.012	mg/L	-	10/06/25

Groundwater Monitoring
Groundwater Well – EGM/D26

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

Name	Reading	Units	Licence Limit	Date
Aluminium		mg/L	-	
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		m	-	
Vanadium		mg/L	-	
Zinc		mg/L	-	

Water Quality – Surface Water EBESS

EPA Identification no. 37 – Final discharge point from the water treatment plant
Sample Frequency – Daily during any discharge (not discharging, no samples collected).

Name	Min reading (mg/L)	Average reading (mg/L)	Maximum Reading (mg/L)	Project Criteria	Number of samples
Cadmium	-	-	-	-	0
Chromium (hexavalant)	-	-	-	-	0
Chromium (trivalent)	-	-	-	-	0
Copper	-	-	-	-	0
Manganese	-	-	-	-	0
Nickel	-	-	-	-	0
PFOS	-	-	-	0.13	0
PFOA	-	-	-	220	0
pH	-	-	-	6.5-9	0
Selenium	-	-	-	-	0
Total Suspended solids	-	-	-	50	0
Vanadium	-	-	-	-	0
Zinc	-	-	-	8	0

Daily Volume Discharged		
Min	Ave	Max

EPA Identification no. 38 – Monitoring overflow point from the attenuation pond
Sample Frequency – Daily during any discharge (not discharging, no samples collected).

Name	Frequency	Reading	Project Criteria	Date
Cadmium	Daily during any discharge	-	-	
Chromium (hexavalant)	Daily during any discharge	-	-	
Chromium (trivalent)	Daily during any discharge	-	-	
Copper	Daily during any discharge	-	-	
Manganese	Daily during any discharge	-	-	
Nickel	Daily during any discharge	-	-	
PFOS	Daily during any discharge	-	0.13	
PFOA	Daily during any discharge	-	220	
pH	Daily during any discharge	-	6.5-9	
Selenium	Daily during any discharge	-	-	
Total Suspended solids	Daily during any discharge	-	50	
Vanadium	Daily during any discharge	-	-	
Zinc	Daily during any discharge	-	8	

EPA Identification no. 39 – Monitoring overflow point from SW01A
Sample Frequency – Daily during any discharge (not discharging, no samples collected).

Name	Reading	Project Criteria	Date
Cadmium	-	-	
Chromium (hexavalant)	-	-	
Chromium (trivalent)	-	-	
Copper	-	-	
Manganese	-	-	
Nickel	-	-	
PFOS	-	0.13	
PFOA	-	220	
pH	-	6.5-9	
Selenium	-	-	
Total Suspended solids	-	50	
Vanadium	-	-	
Zinc	-	8	

EPA Identification no. 40 – Monitoring overflow point from VAR03
Sample Frequency – Daily during any discharge (not discharging, no samples collected).

Name	Reading	Project Criteria	Date
Cadmium	-	-	
Chromium (hexavalant)	-	-	
Chromium (trivalent)	-	-	
Copper	-	-	
Manganese	-	-	
Nickel	-	-	
PFOS	-	0.13	
PFOA	-	220	
pH	-	6.5-9	
Selenium	-	-	
Total Suspended solids	-	50	
Vanadium	-	-	
Zinc	-	8	

EPA Identification no. 41 – Monitoring from the attenuation Pond Discharge Pipe
Sample Frequency – Daily during any discharge (not discharging, no samples collected).

Name	Reading	Project Criteria	Date
Cadmium	-	-	
Chromium (hexavalant)	-	-	
Chromium (trivalent)	-	-	
Copper	-	-	
Manganese	-	-	
Nickel	-	-	
PFOS	-	0.13	
PFOA	-	220	
pH	-	6.5-9	
Selenium	-	-	
Total Suspended solids	-	50	
Vanadium	-	-	
Zinc	-	8	

EPA Identification no. 42 – Monitoring from the Transgrid Outlet Pipe
Sample Frequency – Daily during any discharge (not discharging, no samples collected).

Name	Reading	Project Criteria	Date
Cadmium	-	-	
Chromium (hexavalant)	-	-	
Chromium (trivalent)	-	-	
Copper	-	-	
Manganese	-	-	
Nickel	-	-	
PFOS	-	0.13	
PFOA	-	220	
pH	-	6.5-9	
Selenium	-	-	
Total Suspended solids	-	50	
Vanadium	-	-	
Zinc	-	8	