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

Environmental Monitoring Data January 2026



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

	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
01/01/2026	389	430	362	787	1018	633
02/01/2026	461	534	373	713	994	576
03/01/2026	469	557	389	710	803	590
04/01/2026	447	527	350	741	826	621
05/01/2026	427	494	350	744	813	633
06/01/2026	395	491	317	764	864	603
07/01/2026	412	462	322	774	831	678
08/01/2026	394	457	297	801	832	773
09/01/2026	367	420	295	820	885	706
10/01/2026	346	393	297	832	916	756
11/01/2026	360	394	258	744	830	607
12/01/2026	372	400	317	710	914	599
13/01/2026	417	471	332	783	856	578
14/01/2026	404	453	332	719	839	662
15/01/2026	422	474	316	738	822	595
16/01/2026	406	505	343	767	843	633
17/01/2026	381	467	319	744	892	489
18/01/2026	371	447	326	633	842	449
19/01/2026	357	414	308	652	808	473
20/01/2026	375	439	302	696	796	530
21/01/2026	416	484	340	751	895	645
22/01/2026	341	383	303	741	897	609
23/01/2026	347	444	275	722	855	583
24/01/2026	377	435	325	785	879	637
25/01/2026	372	430	308	810	846	778
26/01/2026	454	595	373	837	950	718
27/01/2026	473	542	403	809	886	706
28/01/2026	429	534	330	827	924	730
29/01/2026	394	451	299	854	935	767
30/01/2026	414	473	299	861	1016	749
31/01/2026	394	485	323	818	885	741

Unit 2 Boiler Continuous Emission Monitoring Summary

EPA Identification no. 4 - Air emissions monitoring, Boiler 2 stack discharge to air
Unit 2 offline 1-20 and 29-31 January 2026

	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
01/01/2026	-	-	-	-	-	-
02/01/2026	-	-	-	-	-	-
03/01/2026	-	-	-	-	-	-
04/01/2026	-	-	-	-	-	-
05/01/2026	-	-	-	-	-	-
06/01/2026	-	-	-	-	-	-
07/01/2026	-	-	-	-	-	-
08/01/2026	-	-	-	-	-	-
09/01/2026	-	-	-	-	-	-
10/01/2026	-	-	-	-	-	-
11/01/2026	-	-	-	-	-	-
12/01/2026	-	-	-	-	-	-
13/01/2026	-	-	-	-	-	-
14/01/2026	-	-	-	-	-	-
15/01/2026	-	-	-	-	-	-
16/01/2026	-	-	-	-	-	-
17/01/2026	-	-	-	-	-	-
18/01/2026	-	-	-	-	-	-
19/01/2026	-	-	-	-	-	-
20/01/2026	-	-	-	-	-	-
21/01/2026	372	402	333	531	550	509
22/01/2026	367	440	311	562	718	490
23/01/2026	366	427	324	542	679	476
24/01/2026	361	446	310	566	691	523
25/01/2026	381	449	339	579	732	534
26/01/2026	385	458	344	585	768	545
27/01/2026	351	414	315	589	757	519
28/01/2026	417	542	310	560	708	494
29/01/2026	-	-	-	-	-	-
30/01/2026	-	-	-	-	-	-
31/01/2026	-	-	-	-	-	-

Unit 3 Boiler Continuous Emission Monitoring Summary

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

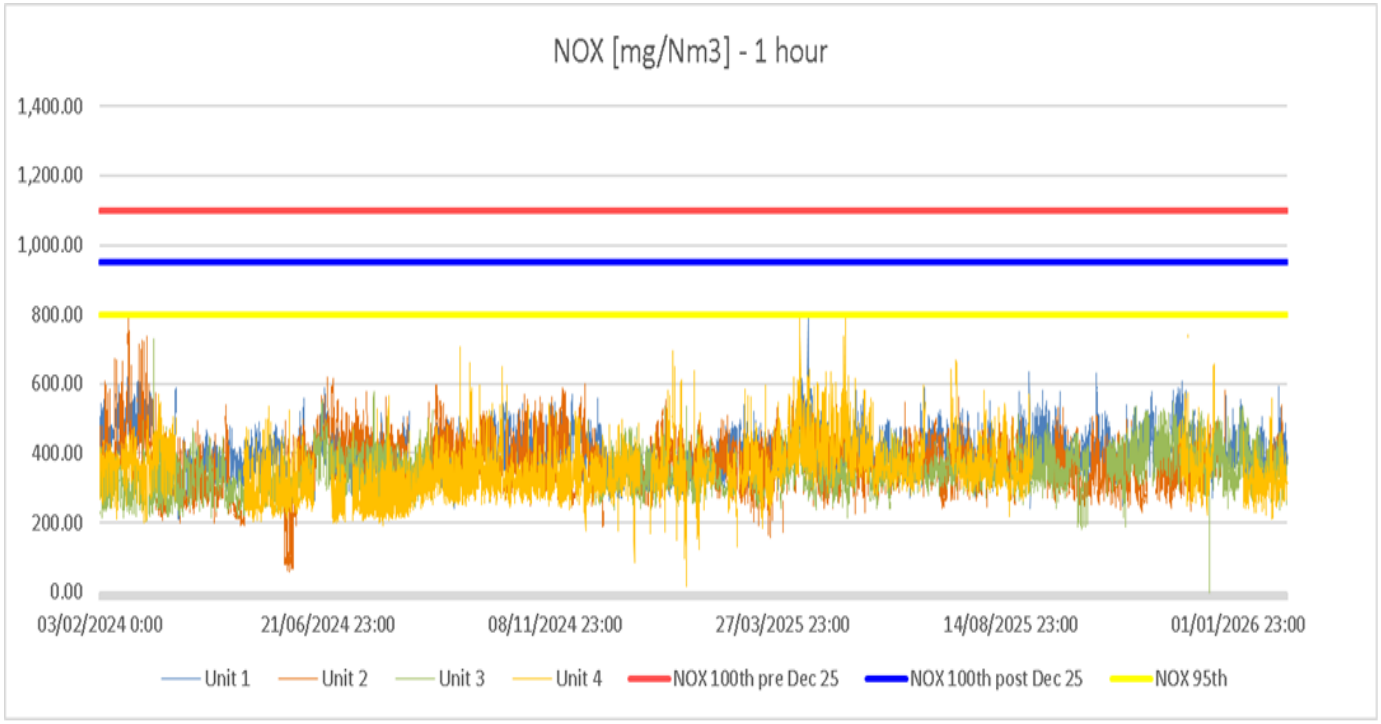
	NOx			SO_2		
	mg/Nm^3 (7% O_2)			mg/Nm^3 (7% O_2)		
	Daily Ave	Daily Max Hourly Average	Daily Min Hourly Average	Daily Ave	Daily Max Hourly Average	Daily Min Hourly Average
01/01/2026	331	378	292	886	980	694
02/01/2026	393	534	301	772	842	741
03/01/2026	416	527	328	731	794	656
04/01/2026	439	538	329	768	798	739
05/01/2026	413	502	305	782	817	753
06/01/2026	422	472	357	780	834	732
07/01/2026	402	502	287	760	777	695
08/01/2026	373	434	285	795	851	757
09/01/2026	362	416	295	784	827	736
10/01/2026	351	442	261	798	837	716
11/01/2026	388	442	263	692	766	642
12/01/2026	347	401	285	750	835	695
13/01/2026	415	469	351	720	747	595
14/01/2026	379	479	256	693	749	638
15/01/2026	401	456	343	725	784	632
16/01/2026	369	435	302	769	803	661
17/01/2026	355	391	334	752	819	698
18/01/2026	353	381	309	735	763	697
19/01/2026	345	374	292	709	767	664
20/01/2026	379	424	309	711	750	579
21/01/2026	393	478	278	725	775	598
22/01/2026	299	364	254	733	819	649
23/01/2026	332	424	257	701	784	614
24/01/2026	367	409	289	713	805	628
25/01/2026	375	436	294	743	813	652
26/01/2026	385	451	332	780	854	691
27/01/2026	394	456	234	783	854	648
28/01/2026	392	457	324	759	791	624
29/01/2026	339	432	268	760	798	623
30/01/2026	341	394	296	875	1105	634
31/01/2026	334	379	253	679	837	628

Unit 4 Boiler Continuous Emission Monitoring Summary -

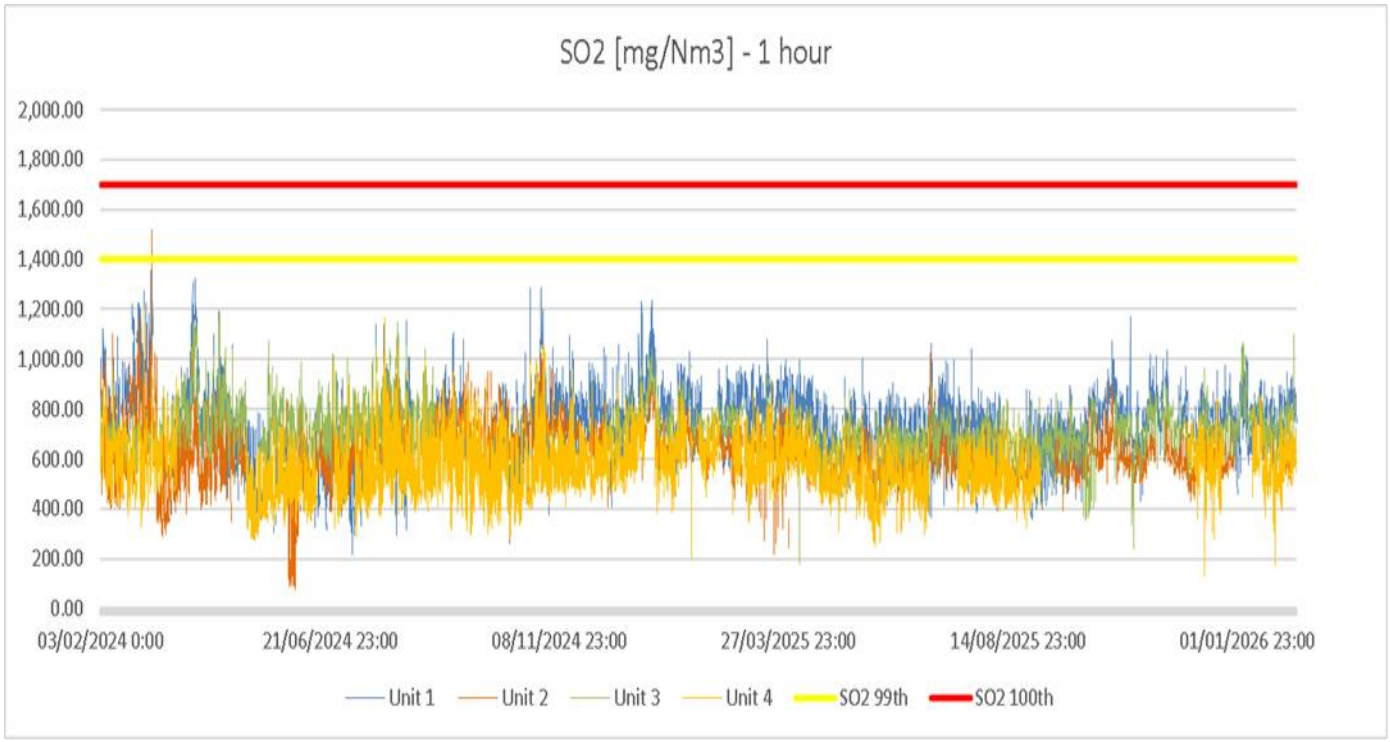
EPA Identification no. 6 - Air emissions monitoring, Boiler 4 stack discharge to air
Unit 4 offline 1-3 January 2026

	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
01/01/2026	-	-	-	-	-	-
02/01/2026	-	-	-	-	-	-
03/01/2026	-	-	-	-	-	-
04/01/2026	243	243	243	443	443	443
05/01/2026	350	463	261	667	791	556
06/01/2026	306	342	242	631	812	534
07/01/2026	306	370	250	631	757	555
08/01/2026	302	339	238	613	746	570
09/01/2026	318	352	278	636	731	530
10/01/2026	308	366	271	694	853	568
11/01/2026	280	329	230	555	720	480
12/01/2026	293	439	228	544	761	366
13/01/2026	327	409	256	553	671	493
14/01/2026	311	380	254	524	635	438
15/01/2026	299	358	258	537	589	493
16/01/2026	313	357	231	586	725	458
17/01/2026	297	341	241	538	701	339
18/01/2026	305	364	220	404	696	174
19/01/2026	317	411	275	509	677	216
20/01/2026	326	363	269	516	572	462
21/01/2026	375	506	272	556	665	442
22/01/2026	354	558	211	560	736	393
23/01/2026	288	377	229	547	750	179
24/01/2026	334	409	249	616	718	513
25/01/2026	305	349	245	629	721	561
26/01/2026	309	366	260	606	723	487
27/01/2026	351	459	288	613	812	524
28/01/2026	336	466	246	595	701	522
29/01/2026	334	428	258	625	794	498
30/01/2026	309	364	262	616	703	567
31/01/2026	313	404	268	614	697	542

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	4	mg/m^3	50	2/12/2025
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	240	m^3/sec	-	2/12/2025
Moisture	6 monthly	5.6	%	-	2/12/2025
Oxygen	6 monthly	9.6	%	-	2/12/2025
Solid Particles	Quarterly	5.9	mg/m^3	-	2/12/2025
Temperature	6 monthly	121	Deg C	-	2/12/2025
Carbon dioxide	6 monthly	11	%	-	2/12/2025
Chlorine	6 monthly	0.110	mg/m^3	-	2/12/2025
Fluorine	6 monthly	12.0	mg/m^3	-	2/12/2025
Hydrogen chloride	6 monthly	18	mg/m^3	-	2/12/2025
Sulfuric acid mist and sulfur trioxide (as SO_3)	6 monthly	2.2	mg/m^3	-	2/12/2025
Volatile organic compounds as n-	6 monthly	0.120	mg/m^3	-	2/12/2025
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		280	m^3/sec	-	2/12/2025
Moisture		4.3	%	-	2/12/2025
Oxygen		9.2	%	-	2/12/2025
Solid Particles	Quarterly	2.2	mg/m^3	-	2/12/2025
Temperature		108	Deg C	-	2/12/2025
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	8	mg/m^3	50	3/12/2025
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	240	m^3/sec	-	3/12/2025
Moisture	6 monthly	5.0	%	-	3/12/2025
Oxygen	6 monthly	8	%	-	3/12/2025
Solid Particles	Quarterly	14	mg/m^3	-	3/12/2025
Temperature	6 monthly	116	Deg C	-	3/12/2025
Carbon dioxide	6 monthly	11.8	%	-	3/12/2025
Chlorine	6 monthly	0.035	mg/m^3	-	3/12/2025
Fluorine	6 monthly	8.8	mg/m^3	-	3/12/2025
Hydrogen chloride	6 monthly	16	mg/m^3	-	3/12/2025
Sulfuric acid mist and sulfur trioxide (as SO_3)	6 monthly	2.5	mg/m^3	-	3/12/2025
Volatile organic compounds as n-	6 monthly	0.13	mg/m^3	-	3/12/2025
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		240	m^3/sec	-	3/12/2025
Moisture		5.0	%	-	3/12/2025
Oxygen		8.7	%	-	3/12/2025
Solid Particles	Quarterly	2.5	mg/m^3	-	3/12/2025
Temperature		108	Deg C	-	3/12/2025
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	1	mg/m^3	50	4/12/2025
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	240	m^3/sec	-	4/12/2025
Moisture	6 monthly	6	%	-	4/12/2025
Oxygen	6 Monthly	9.5	%	-	4/12/2025
Solid Particles	Quarterly	1.4	mg/m^3	-	4/12/2025
Temperature	6 monthly	115	Deg C	-	4/12/2025
Carbon dioxide	6 monthly	11.7	%	-	4/12/2025
Chlorine	6 monthly	0.012	mg/m^3	-	4/12/2025
Fluorine	6 monthly	6.7	mg/m^3	-	4/12/2025
Hydrogen chloride	6 monthly	16	mg/m^3	-	4/12/2025
Sulfuric acid mist and sulfur trioxide (as SO_3)	6 monthly	1.7	mg/m^3	-	4/12/2025
Volatile organic compounds as n-propane equivalent	6 monthly	1.7	mg/m^3	-	4/12/2025
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		240	m^3/sec	-	4/12/2025
Moisture		5.6	%	-	4/12/2025
Oxygen		8.6	%	-	4/12/2025
Solid Particles	Quarterly	1.4	mg/m^3	-	4/12/2025
Temperature		112	Deg C	-	4/12/2025
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	3	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	250	m^3/sec	-	05/12/2025
Moisture	6 monthly	4.9	%	-	05/12/2025
Oxygen	6 monthly	10.3	%	-	05/12/2025
Solid Particles	Quarterly	1.0	mg/m^3	-	05/12/2025
Temperature	6 monthly	118	Deg C	-	05/12/2025
Carbon dioxide	6 monthly	9.8	%	-	05/12/2025
Chlorine	6 monthly	0.077	mg/m^3	-	05/12/2025
Fluorine	6 monthly	7.4	mg/m^3	-	05/12/2025
Hydrogen chloride	6 monthly	10	mg/m^3	-	05/12/2025
Sulfuric acid mist and sulfur trioxide (as SO_3)	6 monthly	0.92	mg/m^3	-	05/12/2025
Volatile organic compounds as n-	6 monthly	0.15	mg/m^3	-	05/12/2025
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		270	m^3/sec	-	05/12/2025
Moisture		4.4	%	-	05/12/2025
Oxygen		10.3	%	-	05/12/2025
Solid Particles	Quarterly	4.6	mg/m^3	-	05/12/2025
Temperature		120	Deg C	-	05/12/2025
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
24.04	0.5	25.82	8.39	37.80	102	8.8	3.75

	Laboratory Analysis			
Name	**Reading**	**Units**	**Licence Limit**	**Date**
Aluminium	0.025	mg/L	-	13/01/26
Ammonia	<0.010	mg/L	-	13/01/26
Arsenic III	<0.004	mg/L	-	13/01/26
Arsenic V	<0.004	mg/L	-	13/01/26
Cadmium	<0.0002	mg/L	-	13/01/26
Chromium (Trivalent)	<0.001	mg/L	-	13/01/26
Chromium (VI) Compounds	<0.001	mg/L	-	13/01/26
Copper	0.001	mg/L	-	13/01/26
Iron	0.047	mg/L	-	13/01/26
Lead	<0.0002	mg/L	-	13/01/26
Manganese	0.0073	mg/L	-	13/01/26
Nickel	<0.0005	mg/L	-	13/01/26
pH	8.06	pH units	-	13/01/26
Selenium	<0.002	mg/L	-	13/01/26
Total Suspended Solids	<5	mg/L	-	13/01/26
Vanadium	0.0024	mg/L	-	13/01/26
Zinc	<0.005	mg/L	-	13/01/26

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
24.5	0.5	26.01	8.38	37.80	101.2	8.80	3.75

Laboratory Analysis				
Name	Reading	**Units**	**Licence Limits**	**Date**
Aluminium	0.021	mg/L	-	13/01/26
Ammonia	<0.010	mg/L	-	13/01/26
Arsenic III	<4.0	mg/L	-	13/01/26
Arsenic V	<4.0	mg/L	-	13/01/26
Cadmium	<0.0002	mg/L	-	13/01/26
Chromium (Trivalent)	<0.001	mg/L	-	13/01/26
Chromium (VI) Compounds	<0.001	mg/L	-	13/01/26
Copper	0.002	mg/L	-	13/01/26
Iron	0.031	mg/L	-	13/01/26
Lead	<0.0002	mg/L	-	13/01/26
Manganese	0.0066	mg/L	-	13/01/26
Nickel	<0.0005	mg/L	-	13/01/26
pH	8.06	pH units	-	13/01/26
Selenium	<0.002	mg/L	-	13/01/26
Total Suspended Solids	<5	mg/L	-	13/01/26
Vanadium	0.0028	mg/L	-	13/01/26
Zinc	0.021	mg/L	-	13/01/26

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
22.5	0.5	24.76	8.46	37.45	103	8.84	4.25

Laboratory Analysis

Name	Reading	Units	Licence Limits	Date
Aluminium	0.012	mg/L	-	13/02/26
Ammonia	<0.010	mg/L	-	13/02/26
Arsenic III	<0.004	mg/L	-	13/02/26
Arsenic V	<0.004	mg/L	-	13/02/26
Cadmium	<0.0002	mg/L	-	13/02/26
Chromium (Trivalent)	<0.001	mg/L	-	13/02/26
Chromium (VI) Compounds	<0.001	mg/L	-	13/02/26
Copper	<0.001	mg/L	-	13/02/26
Iron	0.017	mg/L	-	13/02/26
Lead	0.0002	mg/L	-	13/02/26
Manganese	0.0048	mg/L	-	13/02/26
Nickel	<0.0005	mg/L	-	13/02/26
pH	8.07	pH units	-	13/02/26
Selenium	<0.002	mg/L	-	13/02/26
Total Suspended Solids	<5	mg/L	-	13/02/26
Vanadium	0.0020	mg/L	-	13/02/26
Zinc	<0.005	mg/L	-	13/02/26

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
23.43	0.5	28.40	8.37	37.20	101	8.3	4.25

Laboratory Analysis

Name	Reading	Units	Licence Limits	Date
Aluminium	0.036	mg/L	-	13/01/26
Ammonia	<0.010	mg/L	-	13/01/26
Arsenic III	<0.004	mg/L	-	13/01/26
Arsenic V	<0.004	mg/L	-	13/01/26
Cadmium	<0.0002	mg/L	-	13/01/26
Chromium (Trivalent)	<0.001	mg/L	-	13/01/26
Chromium (VI) Compounds	<0.001	mg/L	-	13/01/26
Copper	0.002	mg/L	-	13/01/26
Iron	0.057	mg/L	-	13/01/26
Lead	<0.0002	mg/L	-	13/01/26
Manganese	0.0072	mg/L	-	13/01/26
Nickel	0.0005	mg/L	-	13/01/26
pH	8.03	pH units	-	13/01/26
Selenium	<0.002	mg/L	-	13/01/26
Total Suspended Solids	<5	mg/L	-	13/01/26
Vanadium	0.0024	mg/L	-	13/01/26
Zinc	<0.005	mg/L	-	13/01/26

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	0.121	mg/L	-	13/01/26
Ammonia	1.66	mg/L	-	13/01/26
Arsenic III	<0.0005	mg/L	-	13/01/26
Arsenic V	0.0163	mg/L	-	13/01/26
Cadmium	0.00007	mg/L	-	13/01/26
Chromium (Trivalent)	0.001	mg/L	-	13/01/26
Chromium (VI) Compounds	<0.01	mg/L	-	13/01/26
Copper	0.0030	mg/L	-	13/01/26
Iron	0.091	mg/L	-	13/01/26
Lead	0.0002	mg/L	-	13/01/26
Manganese	0.311	mg/L	-	13/01/26
Nickel	0.0046	mg/L	-	13/01/26
Nitrite and Nitrate as N	9.33	mg/L	-	13/01/26
Nitrogen	11.2	mg/L	-	13/01/26
pH	7.13	pH units	-	13/01/26
Phosphorus as P	1.69	mg/L	-	13/01/26
Reactive Phosphorus as P	1.70	mg/L	-	13/01/26
Selenium	0.0581	mg/L	-	13/01/26
Total Kjeldahl Nitrogen	1.9	mg/L	-	13/01/26
Total Suspended Solids	12	mg/L	-	13/01/26
Vanadium	0.159	mg/L	-	13/01/26
Zinc	0.011	mg/L	-	13/01/26

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	0.029	mg/L	-	13/01/26
Ammonia	<0.010	mg/L	-	13/01/26
Arsenic III	<0.004	mg/L	-	13/01/26
Arsenic V	<0.004	mg/L	-	13/01/26
Cadmium	<0.0002	mg/L	-	13/01/26
Chromium (Trivalent)	<0.001	mg/L	-	13/01/26
Chromium (VI) Compounds	<0.01	mg/L	-	13/01/26
Copper	0.0011	mg/L	-	13/01/26
Iron	0.043	mg/L	-	13/01/26
Lead	<0.0002	mg/L	-	13/01/26
Manganese	0.0069	mg/L	-	13/01/26
Nickel	<0.0005	mg/L	-	13/01/26
pH	8.03	pH units	-	13/01/26
Selenium	<0.001	mg/L	-	13/01/26
Total Suspended Solids	61	mg/L	-	13/01/26
Vanadium	0.0022	mg/L	-	13/01/26
Zinc	<0.005	mg/L	-	13/01/26
Dissolved Oxygen	6.54	mg/L	-	13/01/26
Field Temperature	27.0	degC	-	13/01/26
Salinity	35.25	ppt	-	13/01/26
Secchi Disk	3.25	m	-	13/01/26
Temperature – Average	26.41	deg C	-	January 26
Temperature – Minimum	22.64	deg C	-	January 26
Temperature - Maximum	29.45	deg C	-	January 26

Eraring Cooling Water Outlet Canal

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

Name	Reading	Units	Licence Limit	Date
Copper	0.0017	mg/L	0.005	13/01/26
Iron	0.044	mg/L	0.3	13/01/26
Selenium	<0.001	mg/L	0.002	13/01/26

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	32.09	deg C	35.5	37.5	38.5	January 26
Temperature – Minimum	25.36	deg C				January 26
Temperature - Maximum	35.85	deg C				January 26

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	0.27	ML		January 26
Average Daily Discharge from Ash Dam	12.17	ML		January 26
Maximum Daily Discharge from Ash Dam	56.40	ML	150	January 26
Monthly Discharge from Ash Dam	365.17	ML	-	January 26

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	0.521	mg/L	-	13/01/26
Ammonia	2.57	mg/L	-	13/01/26
Arsenic III	0.0023	mg/L	-	13/01/26
Arsenic V	0.001	mg/L	-	13/01/26
Cadmium	<0.00005	mg/L	-	13/01/26
Chromium (Trivalent)	<0.001	mg/L	-	13/01/26
Chromium (VI) Compounds	<0.01	mg/L	-	13/01/26
Copper	<0.0005	mg/L	-	13/01/26
Iron	20.7	mg/L	-	13/01/26
Lead	0.0003	mg/L	-	13/01/26
Manganese	2.34	mg/L	-	13/01/26
Nickel	0.0093	mg/L	-	13/01/26
Nitrite and Nitrate as N	0.076	mg/L	-	13/01/26
Nitrogen	3.65	mg/L	-	13/01/26
pH	7.51	pH units	6-9.5	13/01/26
Phosphorus as P	1.59	mg/L	-	13/01/26
Reactive Phosphorus as P	0.008	mg/L	-	13/01/26
Selenium	0.0007	mg/L	-	13/01/26
Total Kjeldahl Nitrogen	3.57	mg/L	-	13/01/26
Total Suspended Solids	209	mg/L	50	13/01/26
Vanadium	0.0014	mg/L	-	13/01/26
Zinc	0.008	mg/L	-	13/01/26

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

MR217 did not discharge in the month and no background sample taken due to insufficient water.

Name	Reading	Units	Licence Limit	Date
Aluminium		mg/L	-	13/01/26
Ammonia		mg/L	-	13/01/26
Arsenic III		mg/L	-	13/01/26
Arsenic V		mg/L	-	13/01/26
Cadmium		mg/L	-	13/01/26
Chromium (Trivalent)		mg/L	-	13/01/26
Chromium (VI) Compounds		mg/L	-	13/01/26
Copper		mg/L	-	13/01/26
Iron		mg/L	-	13/01/26
Lead		mg/L	-	13/01/26
Manganese		mg/L	-	13/01/26
Nickel		mg/L	-	13/01/26
Nitrite and Nitrate as N		mg/L	-	13/01/26
Nitrogen		mg/L	-	13/01/26
pH		pH units	6-9.5	13/01/26
Phosphorus as P		mg/L	-	13/01/26
Reactive Phosphorus as P		mg/L	-	13/01/26
Selenium		mg/L	-	13/01/26
Total Kjeldahl Nitrogen		mg/L	-	13/01/26
Total Suspended Solids		mg/L	50	13/01/26
Vanadium		mg/L	-	13/01/26
Zinc		mg/L	-	13/01/26

Groundwater Monitoring
Groundwater Well – MW01

EPA Identification no. 32 – Groundwater Monitoring Well 01

Name	Reading	Units	Licence Limit	Date
Aluminium	0.135	mg/L	-	2/12/25
Ammonia	0.02	mg/L	-	2/12/25
Arsenic (III)	<0.0005	mg/L	-	2/12/25
Arsenic (V)	<0.0005	mg/L	-	2/12/25
Cadmium	<0.00005	mg/L	-	2/12/25
Calcium	2	mg/L	-	2/12/25
Chromium (trivalent)	<0.01	mg/L	-	2/12/25
Chromium (VI) compounds	<0.01	mg/L	-	2/12/25
Copper	0.0015	mg/L	-	2/12/25
Electrical Conductivity	457	uS/cm	-	2/12/25
Iron	0.679	mg/L	-	2/12/25
Lead	0.0008	mg/L	-	2/12/25
Magnesium	5	mg/L	-	2/12/25
Manganese	0.142	mg/L	-	2/12/25
Nickel	0.005	mg/L	-	2/12/25
pH	5.42	pH units	-	2/12/25
Potassium	4	mg/L	-	2/12/25
Selenium	<0.0002	mg/L	-	2/12/25
Sodium	74	mg/L	-	2/12/25
Standing Water Level	7.02	m	-	2/12/25
Vanadium	0.0003	mg/L	-	2/12/25
Zinc	0.027	mg/L	-	2/12/25

Groundwater Monitoring
Groundwater Well – MW02

EPA Identification no. 33 – Groundwater Monitoring Well 02

Name	Reading	Units	Licence Limit	Date
Aluminium	1.420	mg/L	-	2/12/25
Ammonia	5.03	mg/L	-	2/12/25
Arsenic (III)	<0.008	mg/L	-	2/12/25
Arsenic (V)	<0.008	mg/L	-	2/12/25
Cadmium	0.00012	mg/L	-	2/12/25
Calcium	253	mg/L	-	2/12/25
Chromium (trivalent)	<0.01	mg/L	-	2/12/25
Chromium (VI) compounds	<0.01	mg/L	-	2/12/25
Copper	0.0029	mg/L	-	2/12/25
Electrical Conductivity	17900	uS/cm	-	2/12/25
Iron	16.000	mg/L	-	2/12/25
Lead	0.0072	mg/L	-	2/12/25
Magnesium	306	mg/L	-	2/12/25
Manganese	0.601	mg/L	-	2/12/25
Nickel	0.0027	mg/L	-	2/12/25
pH	7.36	pH units	-	2/12/25
Potassium	134	mg/L	-	2/12/25
Selenium	0.0012	mg/L	-	2/12/25
Sodium	3520	mg/L	-	2/12/25
Standing Water Level	5.46	m	-	2/12/25
Vanadium	0.0099	mg/L	-	2/12/25
Zinc	0.047	mg/L	-	2/12/25

Groundwater Monitoring
Groundwater Well – MW06

EPA Identification no. 34 – Groundwater Monitoring Well 06

Name	Reading	Units	Licence Limit	Date
Aluminium	0.022	mg/L	-	1/12/25
Ammonia	3.14	mg/L	-	1/12/25
Arsenic (III)	0.0042	mg/L	-	1/12/25
Arsenic (V)	0.0011	mg/L	-	1/12/25
Cadmium	<0.0002	mg/L	-	1/12/25
Calcium	423	mg/L	-	1/12/25
Chromium (trivalent)	<0.01	mg/L	-	1/12/25
Chromium (VI) compounds	<0.01	mg/L	-	1/12/25
Copper	<0.001	mg/L	-	1/12/25
Electrical Conductivity	18400	uS/cm	-	1/12/25
Iron	9.310	mg/L	-	1/12/25
Lead	0.0005	mg/L	-	1/12/25
Magnesium	240	mg/L	-	1/12/25
Manganese	0.394	mg/L	-	1/12/25
Nickel	0.0012	mg/L	-	1/12/25
pH	6.88	pH units	-	1/12/25
Potassium	115	mg/L	-	1/12/25
Selenium	<0.002	mg/L	-	1/12/25
Sodium	3260	mg/L	-	1/12/25
Standing Water Level	2.51	m	-	1/12/25
Vanadium	0.001	mg/L	-	1/12/25
Zinc	0.010	mg/L	-	1/12/25

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	-	2/12/25
Ammonia		mg/L	-	2/12/25
Arsenic (III)		mg/L	-	2/12/25
Arsenic (V)		mg/L	-	2/12/25
Cadmium		mg/L	-	2/12/25
Calcium		mg/L	-	2/12/25
Chromium (trivalent)		mg/L	-	2/12/25
Chromium (VI) compounds		mg/L	-	2/12/25
Copper		mg/L	-	2/12/25
Electrical Conductivity		uS/cm	-	2/12/25
Iron		mg/L	-	2/12/25
Lead		mg/L	-	2/12/25
Magnesium		mg/L	-	2/12/25
Manganese		mg/L	-	2/12/25
Nickel		mg/L	-	2/12/25
pH		pH units	-	2/12/25
Potassium		mg/L	-	2/12/25
Selenium		mg/L	-	2/12/25
Sodium		mg/L	-	2/12/25
Standing Water Level		m	-	2/12/25
Vanadium		mg/L	-	2/12/25
Zinc		mg/L	-	2/12/25

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 ug/L	0
PFOA	-	-	-	220 ug/L	0
pH	-	-	-	6.5-9	0
Selenium	-	-	-	-	0
Total Suspended solids	-	-	-	50mg/L	0
Vanadium	-	-	-	-	0
Zinc	-	-	-	8 mg/L	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 ug/L	
PFOA	Daily during any discharge	-	220 ug/L	
pH	Daily during any discharge	-	6.5-9	
Selenium	Daily during any discharge	-	-	
Total Suspended solids	Daily during any discharge	-	50mg/L	
Vanadium	Daily during any discharge	-	-	
Zinc	Daily during any discharge	-	8 mg/L	

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 ug/L	
PFOA	-	220 ug/L	
pH	-	6.5-9	
Selenium	-	-	
Total Suspended solids	-	50mg/L	
Vanadium	-	-	
Zinc	-	8 mg/L	

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 ug/L	
PFOA	-	220 ug/L	
pH	-	6.5-9	
Selenium	-	-	
Total Suspended solids	-	50mg/L	
Vanadium	-	-	
Zinc	-	8 mg/L	

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 ug/L	
PFOA	-	220 ug/L	
pH	-	6.5-9	
Selenium	-	-	
Total Suspended solids	-	50mg/L	
Vanadium	-	-	
Zinc	-	8 mg/L	

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 ug/L	
PFOA	-	220 ug/L	
pH	-	6.5-9	
Selenium	-	-	
Total Suspended solids	-	50mg/L	
Vanadium	-	-	
Zinc	-	8 mg/L	