



Eraring Power Station - EPA Licence 1429

Rocky Point Rd, Dora Creek NSW 2264

Environmental Monitoring Data

February 2021



Unit 1A Boiler Continuous Emission Monitoring Summary

*EPA Identification no.7 - Air emissions monitoring, Boiler 1 stack discharge to air
Unit 1 A Out of Service 25-28 February 2021. Particulates Unit Out of Service 23 February 2021.*

	NOX			Particulates			SOX		
	ppm (7% O ₂)			mg/m ³			ppm (7% O ₂)		
	Daily Ave	Max Hourly	Min Hourly	Daily Ave	Max Hourly	Min Hourly	Daily Ave	Max Hourly	Min Hourly
1 February	149	171	124	25.7	38.9	13.7	280	288	250
2 February	145	161	134	23.0	46.9	10.1	259	279	224
3 February	143	158	126	22.2	33.2	14.4	253	279	206
4 February	144	179	126	22.3	42.3	12.0	259	277	241
5 February	140	164	128	21.8	39.3	13.3	244	263	224
6 February	135	144	120	30.6	36.7	20.5	223	235	208
7 February	137	155	120	27.3	47.3	15.3	225	245	195
8 February	130	136	124	19.3	28.3	12.3	222	249	207
9 February	137	177	111	22.7	29.3	10.3	238	284	215
10 February	146	197	123	25.8	39.2	16.6	233	252	218
11 February	148	189	123	22.1	43.5	10.9	229	241	191
12 February	150	186	127	16.8	30.8	10.7	230	241	199
13 February	125	149	116	30.4	49.3	15.2	222	231	202
14 February	129	134	118	18.9	24.0	12.5	217	232	198
15 February	138	158	123	17.9	30.5	9.4	219	230	203
16 February	150	192	125	26.8	40.0	16.2	215	229	191
17 February	165	202	140	18.2	29.9	5.4	240	254	224
18 February	175	200	157	19.8	30.2	2.0	236	273	197
19 February	168	195	145	32.2	51.8	27.1	243	260	219
20 February	142	162	132	31.8	35.4	29.2	248	279	218
21 February	153	177	139	32.0	36.4	26.3	262	287	223
22 February	143	175	125	27.2	34.1	12.8	245	257	232
23 February	140	173	121	-	-	-	227	237	213
24 February	159	187	136	13.5	18.3	8.9	232	246	217
25 February	-	-	-	-	-	-	-	-	-
26 February	-	-	-	-	-	-	-	-	-
27 February	-	-	-	-	-	-	-	-	-
28 February	-	-	-	-	-	-	-	-	-

Unit 1B Boiler Continuous Emission Monitoring Summary

*EPA Identification no.8 - Air emissions monitoring, Boiler 1 stack discharge to air
Unit 1 B Out of Service 25-28 February 2021.*

	NOX			Particulates			SOX		
	ppm (7% O ₂)			mg/m ³			ppm (7% O ₂)		
	Daily Ave	Max Hourly	Min Hourly	Daily Ave	Max Hourly	Min Hourly	Daily Ave	Max Hourly	Min Hourly
1 February	132	156	103	12.7	18.4	8.9	234	240	222
2 February	123	143	107	16.4	30.1	10.4	215	238	185
3 February	120	134	107	14.5	16.7	10.4	210	231	183
4 February	119	160	100	14.6	18.9	10.8	214	231	197
5 February	118	134	107	13.4	19.2	10.4	203	222	190
6 February	114	120	107	14.3	16.6	12.4	182	196	176
7 February	115	134	101	15.2	24.0	10.8	184	201	170
8 February	111	115	104	14.7	19.3	11.0	184	207	169
9 February	113	139	101	14.5	18.1	10.1	195	234	183
10 February	125	170	103	15.2	21.4	11.0	193	212	177
11 February	126	162	104	14.4	18.8	11.3	187	198	172
12 February	129	161	112	14.5	19.6	11.1	192	204	180
13 February	105	122	100	24.5	30.3	15.2	188	193	179
14 February	108	115	102	21.1	24.2	19.0	185	198	175
15 February	117	142	104	23.2	42.0	16.8	185	197	173
16 February	127	163	107	24.1	39.6	15.4	178	189	172
17 February	139	170	116	23.2	38.9	17.2	199	209	185
18 February	151	176	136	26.9	43.3	16.6	197	234	175
19 February	146	168	127	36.5	49.4	29.9	204	233	195
20 February	126	151	112	36.2	42.6	31.9	212	241	191
21 February	133	159	119	37.7	51.7	32.9	228	249	213
22 February	128	164	107	26.6	41.8	19.5	209	221	193
23 February	119	133	105	25.7	29.7	21.4	201	226	187
24 February	131	155	111	26.9	30.0	21.6	202	214	191
25 February	-	-	-	-	-	-	-	-	-
26 February	-	-	-	-	-	-	-	-	-
27 February	-	-	-	-	-	-	-	-	-
28 February	-	-	-	-	-	-	-	-	-

Unit 2A Boiler Continuous Emission Monitoring Summary

*EPA Identification no. 9 - Air emissions monitoring, Boiler 2 stack discharge to air
Unit 2 A Out of Service 6-21 February 2021.*

	NOX			Particulates			SOX		
	ppm (7% O ₂)			mg/m ³			ppm (7% O ₂)		
	Daily Ave	Max Hourly	Min Hourly	Daily Ave	Max Hourly	Min Hourly	Daily Ave	Max Hourly	Min Hourly
1 February	117	130	108	18.1	21.2	16.9	250	263	220
2 February	117	136	104	20.3	24.2	17.0	222	249	205
3 February	131	154	109	19.9	22.0	18.6	231	249	201
4 February	126	170	104	19.2	20.6	16.2	236	251	224
5 February	122	155	100	18.0	19.3	15.2	205	221	192
6 February	-	-	-	-	-	-	-	-	-
7 February	-	-	-	-	-	-	-	-	-
8 February	-	-	-	-	-	-	-	-	-
9 February	-	-	-	-	-	-	-	-	-
10 February	-	-	-	-	-	-	-	-	-
11 February	-	-	-	-	-	-	-	-	-
12 February	-	-	-	-	-	-	-	-	-
13 February	-	-	-	-	-	-	-	-	-
14 February	-	-	-	-	-	-	-	-	-
15 February	-	-	-	-	-	-	-	-	-
16 February	-	-	-	-	-	-	-	-	-
17 February	-	-	-	-	-	-	-	-	-
18 February	-	-	-	-	-	-	-	-	-
19 February	-	-	-	-	-	-	-	-	-
20 February	-	-	-	-	-	-	-	-	-
21 February	-	-	-	-	-	-	-	-	-
22 February	117	117	117	15.2	22.9	10.9	168	184	160
23 February	110	176	100	17.8	19.2	17.1	199	212	190
24 February	115	150	101	19.9	25.7	18.3	199	217	183
25 February	119	152	106	16.5	18.3	13.1	208	214	203
26 February	140	162	100	19.3	21.4	16.6	193	210	183
27 February	115	149	101	21.6	24.7	17.6	188	194	184
28 February	121	138	107	20.0	22.7	18.4	185	197	179

Unit 2B Boiler Continuous Emission Monitoring Summary

EPA Identification no. 10 - Air emissions monitoring, Boiler 2 stack discharge to air

Unit 2 B Out of Service 6-21 February 2021

	NOX			Particulates			SOX		
	ppm (7% O ₂)			mg/m ³			ppm (7% O ₂)		
	Daily Ave	Max Hourly	Min Hourly	Daily Ave	Max Hourly	Min Hourly	Daily Ave	Max Hourly	Min Hourly
1 February	147	170	123	4.3	5.8	3.5	260	278	234
2 February	164	200	124	5.5	7.8	2.7	247	290	221
3 February	151	199	132	6.2	11.2	4.6	231	251	215
4 February	162	189	129	8.4	12.2	3.9	242	270	209
5 February	150	184	125	6.9	14.8	4.1	203	233	178
6 February	-	-	-	-	-	-	-	-	-
7 February	-	-	-	-	-	-	-	-	-
8 February	-	-	-	-	-	-	-	-	-
9 February	-	-	-	-	-	-	-	-	-
10 February	-	-	-	-	-	-	-	-	-
11 February	-	-	-	-	-	-	-	-	-
12 February	-	-	-	-	-	-	-	-	-
13 February	-	-	-	-	-	-	-	-	-
14 February	-	-	-	-	-	-	-	-	-
15 February	-	-	-	-	-	-	-	-	-
16 February	-	-	-	-	-	-	-	-	-
17 February	-	-	-	-	-	-	-	-	-
18 February	-	-	-	-	-	-	-	-	-
19 February	-	-	-	-	-	-	-	-	-
20 February	-	-	-	-	-	-	-	-	-
21 February	-	-	-	-	-	-	-	-	-
22 February	132	180	116	6.9	39.0	2.3	177	196	168
23 February	132	152	111	5.1	7.1	4.0	191	202	173
24 February	146	178	114	6.8	11.5	5.0	190	210	175
25 February	132	150	112	7.0	10.2	3.9	189	200	181
26 February	152	166	117	6.4	8.0	4.9	172	198	157
27 February	121	157	105	6.8	9.1	6.1	167	181	157
28 February	137	156	115	5.6	7.1	4.0	165	172	150

Unit 3A Boiler Continuous Emission Monitoring Summary

EPA Identification no. 11 - Air emissions monitoring, Boiler 3 stack discharge to air

	NOX			Particulates			SOX		
	ppm (7% O ₂)			mg/m ³			ppm (7% O ₂)		
	Daily Ave	Max Hourly	Min Hourly	Daily Ave	Max Hourly	Min Hourly	Daily Ave	Max Hourly	Min Hourly
1 February	134	141	125	17.4	18.2	16.2	223	232	214
2 February	141	152	128	18.4	24.8	16.2	202	220	181
3 February	139	167	101	17.5	20.5	16.3	195	213	175
4 February	142	171	129	18.5	21.8	17.3	197	213	185
5 February	133	163	116	17.7	18.8	16.7	184	188	176
6 February	139	150	123	17.4	19.8	16.7	174	182	166
7 February	136	158	123	18.7	21.8	16.4	165	176	157
8 February	144	154	128	18.0	19.5	17.4	170	179	163
9 February	145	165	109	18.5	20.5	17.4	182	189	168
10 February	153	184	138	18.7	20.5	18.4	176	189	164
11 February	156	185	132	18.8	20.5	17.4	174	186	147
12 February	144	175	121	18.2	19.7	17.6	177	184	162
13 February	131	152	117	20.2	25.9	17.6	176	186	161
14 February	143	149	125	18.8	21.8	17.7	175	185	166
15 February	136	167	120	20.2	31.4	18.7	179	188	170
16 February	146	179	124	21.2	28.1	18.8	167	184	148
17 February	147	184	121	19.9	23.1	17.9	190	205	171
18 February	143	161	127	19.3	22.2	18.0	179	198	163
19 February	141	166	112	22.1	43.8	18.6	184	197	173
20 February	135	162	119	20.6	23.5	18.5	192	221	168
21 February	144	178	127	20.8	24.7	19.3	203	224	188
22 February	143	173	128	20.4	21.2	19.2	188	195	180
23 February	156	192	130	20.2	24.3	18.9	180	186	165
24 February	147	158	136	20.8	23.1	19.9	185	194	179
25 February	143	172	129	20.3	25.4	18.1	186	193	177
26 February	143	168	124	20.6	23.3	18.1	176	184	163
27 February	135	159	125	20.9	23.4	19.3	166	170	162
28 February	143	161	133	20.8	25.6	19.3	170	175	162

Unit 3B Boiler Continuous Emission Monitoring Summary

EPA Identification no. 12 - Air emissions monitoring, Boiler 3 stack discharge to air

	NOX			Particulates			SOX		
	ppm (7% O ₂)			mg/m ³			ppm (7% O ₂)		
	Daily Ave	Max Hourly	Min Hourly	Daily Ave	Max Hourly	Min Hourly	Daily Ave	Max Hourly	Min Hourly
1 February	116	140	100	11.0	16.3	7.0	192	199	171
2 February	125	152	112	15.1	22.4	10.0	179	200	160
3 February	127	141	109	11.4	14.3	2.9	176	196	153
4 February	121	147	108	8.0	10.0	3.8	172	184	163
5 February	116	136	103	8.7	13.0	3.7	166	178	152
6 February	117	132	100	10.6	14.8	5.8	157	169	145
7 February	114	132	101	10.4	17.7	4.3	153	167	141
8 February	128	144	108	9.6	13.5	6.4	151	166	142
9 February	134	165	110	8.4	12.6	1.3	160	170	146
10 February	123	150	108	6.1	10.5	2.3	151	166	138
11 February	133	156	109	7.6	11.7	2.4	153	166	132
12 February	122	146	109	8.3	19.9	4.2	145	158	127
13 February	107	120	101	12.8	29.6	4.8	136	144	123
14 February	112	123	101	10.2	15.1	5.9	132	141	124
15 February	112	137	100	12.5	20.3	5.9	133	145	111
16 February	113	133	104	12.3	21.3	2.6	128	140	119
17 February	117	156	102	10.2	19.3	3.7	145	153	125
18 February	112	122	101	11.7	16.0	2.1	137	156	118
19 February	122	148	106	18.1	36.8	3.4	145	153	131
20 February	110	131	101	9.9	13.7	2.3	149	168	128
21 February	110	148	100	11.3	16.6	4.8	157	170	144
22 February	111	141	100	8.1	12.0	3.5	148	155	137
23 February	116	139	102	10.7	16.0	5.7	137	151	129
24 February	108	116	102	8.9	11.8	2.5	139	146	132
25 February	114	139	100	6.3	13.9	2.6	145	152	130
26 February	120	132	104	8.7	14.9	3.3	139	147	125
27 February	109	122	100	7.1	11.7	3.4	130	135	125
28 February	111	128	104	8.5	10.6	4.4	133	138	124

Unit 4A Boiler Continuous Emission Monitoring Summary

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

	NOX			Particulates			SOX		
	ppm (7% O ₂)			mg/m ³			ppm (7% O ₂)		
	Daily	Max	Min	Daily	Max	Min	Daily	Max	Min
1 February	163	181	138	9.0	10.3	7.2	218	231	206
2 February	167	182	151	10.0	11.2	8.2	198	209	181
3 February	178	194	156	10.2	12.2	6.2	184	204	169
4 February	140	159	118	9.6	12.3	6.2	172	191	156
5 February	127	145	113	7.6	9.3	4.2	167	190	146
6 February	131	141	111	8.1	9.4	7.3	157	169	141
7 February	124	133	112	8.3	10.4	5.2	155	171	143
8 February	144	171	122	7.9	9.1	7.1	156	175	145
9 February	157	170	128	8.3	10.2	5.0	169	184	149
10 February	150	170	134	8.2	11.1	4.8	168	187	144
11 February	150	175	126	8.1	11.9	4.8	159	173	149
12 February	148	174	128	7.5	8.8	5.4	170	188	150
13 February	132	140	120	6.9	9.2	4.3	163	177	142
14 February	138	155	116	8.5	10.2	6.2	161	167	153
15 February	137	152	120	9.3	11.1	6.9	165	181	137
16 February	137	147	129	9.7	12.1	5.9	156	166	142
17 February	145	159	131	8.8	11.1	6.0	168	189	154
18 February	153	212	114	9.8	11.2	7.1	189	272	147
19 February	189	259	137	10.2	17.3	6.0	226	303	181
20 February	190	227	170	9.4	11.3	6.0	235	286	197
21 February	213	275	178	9.4	12.3	6.1	261	301	222
22 February	185	213	148	8.3	11.2	6.1	228	260	200
23 February	184	229	147	9.3	11.2	6.1	219	249	171
24 February	180	210	152	9.9	11.5	7.5	223	260	188
25 February	186	216	164	9.1	10.8	6.6	216	256	194
26 February	184	211	160	8.8	10.8	6.7	207	251	181
27 February	165	192	145	9.3	13.5	6.7	206	237	188
28 February	181	201	153	9.3	12.0	6.8	202	217	178

Unit 4B Boiler Continuous Emission Monitoring Summary

EPA Identification no. 14 - Air emissions monitoring, Boiler 4 stack discharge to air

	NOX			Particulates			SOX		
	ppm (7% O ₂)			mg/m ³			ppm (7% O ₂)		
	Daily	Max	Min	Daily	Max	Min	Daily	Max	Min
1 February	163	184	139	7.6	9.3	7.2	211	225	202
2 February	164	176	148	7.3	9.2	6.2	196	213	178
3 February	177	194	150	8.0	10.4	7.1	190	213	175
4 February	167	220	114	6.8	8.4	4.3	211	220	198
5 February	150	174	131	6.0	7.3	5.3	194	219	176
6 February	149	174	129	5.3	6.3	4.3	181	200	168
7 February	142	164	126	5.6	7.3	4.3	176	190	163
8 February	168	192	130	6.0	6.3	5.2	185	208	173
9 February	195	218	152	6.9	9.5	5.3	201	209	188
10 February	189	219	159	5.6	6.4	4.3	195	216	178
11 February	189	215	161	5.5	7.3	3.1	191	202	173
12 February	186	212	158	5.8	7.2	2.1	200	213	188
13 February	154	172	135	4.9	6.3	3.2	187	231	176
14 February	154	170	130	5.1	6.3	3.2	183	190	178
15 February	162	210	131	6.0	6.3	5.3	199	223	178
16 February	159	185	138	6.2	7.3	5.2	181	195	170
17 February	168	202	139	6.2	7.3	4.2	200	213	183
18 February	146	172	121	5.9	6.2	4.2	188	208	169
19 February	157	194	122	5.4	9.3	2.2	190	232	179
20 February	162	183	138	5.7	7.3	2.9	200	231	171
21 February	181	211	155	6.4	7.9	3.5	218	246	197
22 February	161	188	133	6.9	12.8	1.7	196	207	181
23 February	154	182	130	6.1	6.8	4.7	186	196	174
24 February	141	156	124	5.5	5.8	4.8	187	197	169
25 February	171	207	139	5.2	5.8	3.7	191	200	180
26 February	165	178	134	5.5	7.0	3.8	181	193	171
27 February	133	169	120	5.5	6.9	3.8	174	182	166
28 February	144	161	123	5.4	7.0	3.8	171	189	164

Unit 1 Boiler Emission Test Results

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

<u>Name</u>	<u>Reading</u>	<u>Units</u>	<u>Licence Limit</u>	<u>Date</u>
Cadmium	<0.0002	mg/m ³	0.2	12/08/2020
Mercury	<0.0002	mg/m ³	0.05	12/08/2020
Solid Particles	<1	mg/m ³	50	12/08/2020
Type 1 and 2 substances in Aggregate	<0.01	mg/m ³	0.75	12/08/2020

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

<u>Name</u>	<u>Reading</u>	<u>Units</u>	<u>Date</u>
Cadmium	<0.0002	mg/m ³	12/08/2020
Flow Rate	332	m ³ /sec	12/08/2020
Mercury	<0.0002	mg/m ³	12/08/2020
Moisture	5.1	%	12/08/2020
Oxygen	6.2	%	12/08/2020
Solid Particles	1.7	mg/m ³	12/08/2020
Temperature	118	degC	12/08/2020
Type 1 and Type 2 substances in Aggregate	<0.0093	mg/m ³	12/08/2020

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

<u>Name</u>	<u>Reading</u>	<u>Units</u>	<u>Date</u>
Cadmium	<0.0002	mg/m ³	12/08/2020
Flow Rate	392	m ³ /sec	12/08/2020
Mercury	<0.0002	mg/m ³	12/08/2020
Moisture	5.5	%	12/08/2020
Oxygen	8.1	%	12/08/2020
Solid Particles	<0.6	mg/m ³	12/08/2020
Temperature	117	degC	12/08/2020
Type 1 and Type 2 substances in Aggregate	<0.012	mg/m ³	12/08/2020

Unit 2 Boiler Emission Test Results

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

<u>Name</u>	<u>Reading</u>	<u>Units</u>	<u>Licence Limit</u>	<u>Date</u>
Cadmium	<0.0002	mg/m ³	0.2	12/08/2020
Mercury	<0.0002	mg/m ³	0.05	12/08/2020
Solid Particles	<3	mg/m ³	50	12/08/2020
Type 1 and 2 substances in Aggregate	<0.009	mg/m ³	0.75	12/08/2020

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

<u>Name</u>	<u>Reading</u>	<u>Units</u>	<u>Date</u>
Cadmium	<0.0003	mg/m ³	12/08/2020
Flow Rate	348	m ³ /sec	12/08/2020
Mercury	<0.0002	mg/m ³	12/08/2020
Moisture	6.4	%	12/08/2020
Oxygen	8.0	%	12/08/2020
Solid Particles	4.8	mg/m ³	12/08/2020
Temperature	126	degC	12/08/2020
Type 1 and Type 2 substances in Aggregate	<0.0091	mg/m ³	12/08/2020

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

<u>Name</u>	<u>Reading</u>	<u>Units</u>	<u>Date</u>
Cadmium	<0.0002	mg/m ³	12/08/2020
Flow Rate	362	m ³ /sec	12/08/2020
Mercury	<0.0002	mg/m ³	12/08/2020
Moisture	5.7	%	12/08/2020
Oxygen	7.1	%	12/08/2020
Solid Particles	<0.6	mg/m ³	12/08/2020
Temperature	114	degC	12/08/2020
Type 1 and Type 2 substances in Aggregate	<0.0082	mg/m ³	12/08/2020

Unit 3 Boiler Emission Test Results

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

<u>Name</u>	<u>Reading</u>	<u>Units</u>	<u>Licence Limit</u>	<u>Date</u>
Cadmium	<0.0001	mg/m ³	0.2	13/08/2020
Mercury	<0.0001	mg/m ³	0.05	13/08/2020
Solid Particles	1.1	mg/m ³	50	13/08/2020
Type 1 and 2 substances in Aggregate	<0.03	mg/m ³	0.75	13/08/2020

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

<u>Name</u>	<u>Reading</u>	<u>Units</u>	<u>Date</u>
Cadmium	<0.0002	mg/m ³	13/08/2020
Flow Rate	347	m ³ /sec	13/08/2020
Mercury	<0.0002	mg/m ³	13/08/2020
Moisture	5.1	%	13/08/2020
Oxygen	6.2	%	13/08/2020
Solid Particles	1.7	mg/m ³	13/08/2020
Temperature	119	degC	13/08/2020
Type 1 and Type 2 substances in Aggregate	<0.014	mg/m ³	13/08/2020

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

<u>Name</u>	<u>Reading</u>	<u>Units</u>	<u>Date</u>
Cadmium	<0.0001	mg/m ³	13/08/2020
Flow Rate	389	m ³ /sec	13/08/2020
Mercury	<0.0001	mg/m ³	13/08/2020
Moisture	5.4	%	13/08/2020
Oxygen	6.7	%	13/08/2020
Solid Particles	0.61	mg/m ³	13/08/2020
Temperature	114	degC	13/08/2020
Type 1 and Type 2 substances in Aggregate	<0.044	mg/m ³	13/08/2020

Unit 4 Boiler Emission Test Results

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

<u>Name</u>	<u>Reading</u>	<u>Units</u>	<u>Licence Limit</u>	<u>Date</u>
Cadmium	<0.0002	mg/m ³	0.2	8/09/2020
Mercury	<0.0003	mg/m ³	0.05	8/09/2020
Solid Particles	1.5	mg/m ³	50	8/09/2020
Type 1 and 2 substances in Aggregate	<0.01	mg/m ³	0.75	8/09/2020

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

<u>Name</u>	<u>Reading</u>	<u>Units</u>	<u>Date</u>
Cadmium	<0.0002	mg/m ³	8/09/2020
Flow Rate	343	m ³ /sec	8/09/2020
Mercury	0.00036	mg/m ³	8/09/2020
Moisture	5.1	%	8/09/2020
Oxygen	7.8	%	8/09/2020
Solid Particles	1.5	mg/m ³	8/09/2020
Temperature	124	degC	8/09/2020
Type 1 and Type 2 substances in Aggregate	<0.014	mg/m ³	8/09/2020

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

<u>Name</u>	<u>Reading</u>	<u>Units</u>	<u>Date</u>
Cadmium	<0.0002	mg/m ³	8/09/2020
Flow Rate	306	m ³ /sec	8/09/2020
Mercury	<0.0002	mg/m ³	8/09/2020
Moisture	5.3	%	8/09/2020
Oxygen	9.2	%	8/09/2020
Solid Particles	1.4	mg/m ³	8/09/2020
Temperature	109	degC	8/09/2020
Type 1 and Type 2 substances in Aggregate	<0.011	mg/m ³	8/09/2020

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/m ² /month		
		Ash	Combustible	Insoluble
E2	17	1.6	0.6	2.2
E4	18	0.4	0.5	0.9
E6	19	0.3	0.4	0.7
U6	20	0.2	0.7	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

Air Temp	Depth	Water Temp	pH	Salinity	Dissolved Oxygen		Secchi
°C	m	degC	pH unit	ppt	%	mg/L	m
25.01	0.50	25.11	8.29	33.4	83.5	5.58	1.75
Name		Reading		Units		Date	
Aluminium		0.062		mg/L		1/02/2021	
Ammonia		<0.010		mg/L		1/02/2021	
Arsenic III		<0.001		mg/L		24/02/2021	
Arsenic V		<0.001		mg/L		24/02/2021	
Cadmium		<0.0002		mg/L		1/02/2021	
Chromium (Trivalent)		<0.01		mg/L		1/02/2021	
Chromium (VI) Compounds		<0.01		mg/L		1/02/2021	
Copper		0.001		mg/L		1/02/2021	
Iron		0.082		mg/L		1/02/2021	
Lead		<0.0002		mg/L		1/02/2021	
Manganese		0.0080		mg/L		1/02/2021	
Nickel		<0.0005		mg/L		1/02/2021	
pH		8.03		pH /units		1/02/2021	
Selenium		<0.002		mg/L		1/02/2021	
Total Suspended Solids		<5		mg/L		1/02/2021	
Vanadium		0.0025		mg/L		1/02/2021	
Zinc		<0.005		mg/L		1/02/2021	

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

Air Temp	Depth	Water Temp	pH	Salinity	Dissolved Oxygen		Secchi
°C	m	degC	pH unit	ppt	%	mg/L	m
24.29	0.50	25.96	8.31	33.2	105.4	7.42	2.25
Name		Reading		Units		Date	
Aluminium		0.052		mg/L		1/02/2021	
Ammonia		<0.010		mg/L		1/02/2021	
Arsenic III		<0.001		mg/L		24/02/2021	
Arsenic V		<0.001		mg/L		24/02/2021	
Cadmium		<0.0002		mg/L		1/02/2021	
Chromium (Trivalent)		<0.01		mg/L		1/02/2021	
Chromium (VI) Compounds		<0.01		mg/L		1/02/2021	
Copper		0.002		mg/L		1/02/2021	
Iron		0.049		mg/L		1/02/2021	
Lead		<0.0002		mg/L		1/02/2021	
Manganese		0.0063		mg/L		1/02/2021	
Nickel		<0.0005		mg/L		1/02/2021	
pH		8.06		pH /units		1/02/2021	
Selenium		<0.002		mg/L		1/02/2021	
Total Suspended Solids		<5		mg/L		1/02/2021	
Vanadium		0.0027		mg/L		1/02/2021	
Zinc		<0.005		mg/L		1/02/2021	

Water Quality - Lake Monitoring LM4

EPA Identification no. 30 - The northern waters of Lake Macquarie east off Lake Macquarie Yacht Club

Air Temp	Depth	Water Temp	pH	Salinity	Dissolved Oxygen		Secchi
°C	m	degC	pH unit	ppt	%	mg/L	m
21.97	0.50	23.67	8.20	33.5	94.3	6.35	3.25
Name		Reading		Units		Date	
Aluminium		0.018		mg/L		1/02/2021	
Ammonia		<0.010		mg/L		1/02/2021	
Arsenic III		<0.001		mg/L		24/02/2021	
Arsenic V		<0.001		mg/L		24/02/2021	
Cadmium		<0.0002		mg/L		1/02/2021	
Chromium (Trivalent)		<0.01		mg/L		1/02/2021	
Chromium (VI) Compounds		<0.01		mg/L		1/02/2021	
Copper		0.001		mg/L		1/02/2021	
Iron		0.020		mg/L		1/02/2021	
Lead		0.0002		mg/L		1/02/2021	
Manganese		0.0030		mg/L		1/02/2021	
Nickel		<0.0005		mg/L		1/02/2021	
pH		8.09		pH /units		1/02/2021	
Selenium		<0.002		mg/L		1/02/2021	
Total Suspended Solids		<5		mg/L		1/02/2021	
Vanadium		0.0027		mg/L		1/02/2021	
Zinc		0.007		mg/L		1/02/2021	

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

Air Temp	Depth	Water Temp	pH	Salinity	Dissolved Oxygen		Secchi
°C	m	degC	pH unit	ppt	%	mg/L	m
22.34	0.5	25.97	8.27	32.0	88.6	5.83	2.25
Name		Reading		Units		Date	
Aluminium		0.076		mg/L		1/02/2021	
Ammonia		<0.010		mg/L		1/02/2021	
Arsenic III		<0.001		mg/L		24/02/2021	
Arsenic V		<0.001		mg/L		24/02/2021	
Cadmium		<0.0002		mg/L		1/02/2021	
Chromium (Trivalent)		<0.01		mg/L		1/02/2021	
Chromium (VI) Compounds		<0.01		mg/L		1/02/2021	
Copper		0.001		mg/L		1/02/2021	
Iron		0.116		mg/L		1/02/2021	
Lead		<0.0002		mg/L		1/02/2021	
Manganese		0.0111		mg/L		1/02/2021	
Nickel		<0.0005		mg/L		1/02/2021	
pH		8.06		pH /units		1/02/2021	
Selenium		<0.002		mg/L		1/02/2021	
Total Suspended Solids		<5		mg/L		1/02/2021	
Vanadium		0.0025		mg/L		1/02/2021	
Zinc		<0.005		mg/L		1/02/2021	

Eraring Ash Dam Effluent Quality Monitoring

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

<u>Name</u>	<u>Reading</u>	<u>Units</u>	<u>Licence Limit</u>	<u>Date</u>
Aluminium	0.088	mg/L	-	8/02/21
Ammonia	0.43	mg/L	-	8/02/21
Arsenic III	<0.001	mg/L	-	24/02/21
Arsenic V	0.005	mg/L	-	24/02/21
Cadmium	0.00005	mg/L	-	8/02/21
Chromium (Trivalent)	0.002	mg/L	-	4/02/21
Chromium (VI) Compounds	<0.01	mg/L	-	4/02/21
Copper	0.0024	mg/L	-	8/02/21
Iron	0.026	mg/L	-	8/02/21
Lead	<0.0001	mg/L	-	8/02/21
Manganese	0.0358	mg/L	-	8/02/21
Nickel	0.0016	mg/L	-	8/02/21
Nitrite and Nitrate as N	1.95	mg/L	-	8/02/21
Nitrogen	2.8	mg/L	-	8/02/21
pH	8.53	pH /units	-	4/02/21
Phosphorus as P	0.63	mg/L	-	8/02/21
Reactive Phosphorus as P	0.69	mg/L	-	4/02/21
Selenium	0.0264	mg/L	-	8/02/21
Total Kjeldahl Nitrogen	0.9	mg/L	-	8/02/21
Total Suspended Solids	9	mg/L	50	4/02/21
Vanadium	0.0306	mg/L	-	8/02/21
Zinc	0.003	mg/L	-	8/02/21

Eraring Cooling Water Inlet Canal

EPA Identification no. 31 - Inlet canal of the cooling water intake from Lake Macquarie

<u>Name</u>	<u>Reading</u>	<u>Units</u>	<u>Licence Limit</u>	<u>Date</u>
Aluminium	0.071	mg/L	-	4/02/2021
Ammonia	<0.005	mg/L	-	4/02/2021
Arsenic III	<0.001	mg/L	-	24/02/2021
Arsenic V	<0.001	mg/L	-	24/02/2021
Cadmium	<0.0002	mg/L	-	4/02/2021
Chromium (Trivalent)	<0.001	mg/L	-	4/02/2021
Chromium (VI) Compounds	<0.01	mg/L	-	4/02/2021
Copper	0.0012	mg/L	-	4/02/2021
Iron	0.090	mg/L	-	4/02/2021
Lead	<0.0002	mg/L	-	4/02/2021
Manganese	0.0058	mg/L	-	4/02/2021
Nickel	<0.0005	mg/L	-	4/02/2021
pH	8.05	pH units	-	4/02/2021
Selenium	0.001	mg/L	-	4/02/2021
Total suspended Solids	<5	mg/L	-	4/02/2021
Vanadium	0.0034	mg/L	-	4/02/2021
Zinc	<0.005	mg/L	-	4/02/2021
Dissolved Oxygen	7.71	mg/L	-	4/02/2021
Field Temperature	24.6	degC	-	4/02/2021
Salinity	34.3	ppt	-	4/02/2021
Secchi Disk	2.75	m	-	4/02/2021
Temperature – Average	25.6	deg C	-	February 2021
Temperature – Minimum	23.1	deg C	-	February 2021
Temperature - Maximum	27.7	deg C	-	February 2021

Eraring Cooling Water Outlet Canal

EPA Identification no. 21 - Cooling water outlet canal to Myuna Bay

<u>Name</u>	<u>Reading</u>	<u>Units</u>	<u>Licence Limit</u>	<u>Date</u>
Copper	0.0016	mg/L	0.005	4/02/2021
Iron	0.089	mg/L	0.3	4/02/2021
Selenium	0.001	mg/L	0.002	4/02/2021
Temperature – Average	31.6	deg C	37.5	February 2021
Temperature – Minimum	28.2	deg C	37.5	February 2021
Temperature - Maximum	35.5	deg C	37.5	February 2021
Maximum Daily Discharge from Ash	12.43	ML	150	February 2021
Monthly Discharge from Ash Dam	183.1	ML	-	February 2021

Emergency Discharge – Toe Drain Pond

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

<u>Name</u>	<u>Reading</u>	<u>Units</u>	<u>Licence Limit</u>	<u>Date</u>
Aluminium	0.200	mg/L	-	4/02/2021
Ammonia	3.10	mg/L	-	4/02/2021
Arsenic III	0.002	mg/L	-	24/02/2021
Arsenic V	<0.001	mg/L	-	24/02/2021
Cadmium	<0.00005	mg/L	-	4/02/2021
Chromium (Trivalent)	<0.001	mg/L	-	4/02/2021
Chromium (VI) Compounds	<0.01	mg/L	-	4/02/2021
Copper	<0.0005	mg/L	-	4/02/2021
Iron	9.20	mg/L	-	4/02/2021
Lead	<0.0001	mg/L	-	4/02/2021
Manganese	1.01	mg/L	-	4/02/2021
Nickel	0.0018	mg/L	-	4/02/2021
Nitrite and Nitrate as N	0.06	mg/L	-	4/02/2021
Nitrogen	3.2	mg/L	-	4/02/2021
pH	6.73	pH /units	6-9.5	4/02/2021
Phosphorus as P	0.31	mg/L	-	4/02/2021
Reactive Phosphorus as P	<0.01	mg/L	-	4/02/2021
Selenium	0.0003	mg/L	-	4/02/2021
Total Kjeldahl Nitrogen	3.1	mg/L	-	4/02/2021
Total Suspended Solids	28	mg/L	50	4/02/2021
Vanadium	0.0006	mg/L	-	4/02/2021
Zinc	0.004	mg/L	-	4/02/2021

MR217

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

Not Discharging February 2020

<u>Name</u>	<u>Reading</u>	<u>Units</u>	<u>Licence Limit</u>	<u>Date</u>
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	0.224	mg/L	7/12/2020
Ammonia	<0.01	mg/L	7/12/2020
Arsenic (III)	<0.0005	mg/L	7/12/2020
Arsenic (V)	<0.0005	mg/L	7/12/2020
Cadmium	<0.00005	mg/L	7/12/2020
Calcium	2	mg/L	7/12/2020
Chromium (trivalent)	<0.01	mg/L	7/12/2020
Chromium (VI) compounds	<0.01	mg/L	7/12/2020
Copper	0.0032	mg/L	7/12/2020
Electrical Conductivity	448	uS/cm	7/12/2020
Iron	0.392	mg/L	7/12/2020
Lead	0.0015	mg/L	7/12/2020
Magnesium	5	mg/L	7/12/2020
Manganese	0.111	mg/L	7/12/2020
Nickel	0.0103	mg/L	7/12/2020
pH	4.89	pH	7/12/2020
Potassium	4	mg/L	7/12/2020
Selenium	<0.0002	mg/L	7/12/2020
Sodium	64	mg/L	7/12/2020
Standing Water Level	8.40	metres	7/12/2020
Vanadium	0.0005	mg/L	7/12/2020
Zinc	0.030	mg/L	7/12/2020

Groundwater Well – MW02

EPA Identification no. 33 – Groundwater Monitoring Well 02

Name	Reading	Units	Date
Aluminium	0.250	mg/L	3/12/2020
Ammonia	1.16	mg/L	3/12/2020
Arsenic (III)	0.0008	mg/L	3/12/2020
Arsenic (V)	0.0009	mg/L	3/12/2020
Cadmium	0.00010	mg/L	3/12/2020
Calcium	276	mg/L	3/12/2020
Chromium (trivalent)	<0.01	mg/L	3/12/2020
Chromium (VI) compounds	<0.01	mg/L	3/12/2020
Copper	0.0023	mg/L	3/12/2020
Electrical Conductivity	15700	uS/cm	3/12/2020
Iron	3.880	mg/L	3/12/2020
Lead	0.0034	mg/L	3/12/2020
Magnesium	201	mg/L	3/12/2020
Manganese	0.948	mg/L	3/12/2020
Nickel	0.0056	mg/L	3/12/2020
pH	6.44	pH	3/12/2020
Potassium	105	mg/L	3/12/2020
Selenium	0.0005	mg/L	3/12/2020
Sodium	2540	mg/L	3/12/2020
Standing Water Level	4.53	metres	3/12/2020
Vanadium	0.0023	mg/L	3/12/2020
Zinc	0.110	mg/L	3/12/2020

Groundwater Well – MW06

EPA Identification no. 34 – Groundwater Monitoring Well 06

Name	Reading	Units	Date
Aluminium	0.027	mg/L	7/12/2020
Ammonia	3.36	mg/L	7/12/2020
Arsenic (III)	0.0022	mg/L	7/12/2020
Arsenic (V)	0.0018	mg/L	7/12/2020
Cadmium	<0.0002	mg/L	7/12/2020
Calcium	438	mg/L	7/12/2020
Chromium (trivalent)	<0.01	mg/L	7/12/2020
Chromium (VI) compounds	<0.01	mg/L	7/12/2020
Copper	<0.001	mg/L	7/12/2020
Electrical Conductivity	20100	uS/cm	7/12/2020
Iron	14.800	mg/L	7/12/2020
Lead	<0.0002	mg/L	7/12/2020
Magnesium	256	mg/L	7/12/2020
Manganese	0.405	mg/L	7/12/2020
Nickel	0.0008	mg/L	7/12/2020
pH	6.47	pH	7/12/2020
Potassium	115	mg/L	7/12/2020
Selenium	<0.002	mg/L	7/12/2020
Sodium	3360	mg/L	7/12/2020
Standing Water Level	1.96	metres	7/12/2020
Vanadium	<0.0005	mg/L	7/12/2020
Zinc	0.014	mg/L	7/12/2020

Groundwater Well – EGM/D26

EPA Identification no. 35 – Groundwater Monitoring Well D26
Groundwater well was dry during sampling in December 2020

Name	Reading	Units	Date
Aluminium		mg/L	3/12/2020
Ammonia		mg/L	3/12/2020
Arsenic (III)		mg/L	3/12/2020
Arsenic (V)		mg/L	3/12/2020
Cadmium		mg/L	3/12/2020
Calcium		mg/L	3/12/2020
Chromium (trivalent)		mg/L	3/12/2020
Chromium (VI) compounds		mg/L	3/12/2020
Copper		mg/L	3/12/2020
Electrical Conductivity		uS/cm	3/12/2020
Iron		mg/L	3/12/2020
Lead		mg/L	3/12/2020
Magnesium		mg/L	3/12/2020
Manganese		mg/L	3/12/2020
Nickel		mg/L	3/12/2020
pH		pH	3/12/2020
Potassium		mg/L	3/12/2020
Selenium		mg/L	3/12/2020
Sodium		mg/L	3/12/2020
Standing Water Level		metres	3/12/2020
Vanadium		mg/L	3/12/2020
Zinc		mg/L	3/12/2020