



Eraring Power Station - EPA Licence 1429

Rocky Point Rd, Dora Creek NSW 2264

Environmental Monitoring Data

April 2019



Unit 1 Boiler Continuous Emission Monitoring Summary

EPA Identification no. 11 - Air emissions monitoring, Boiler 1 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 April	190	190	190	19.2	30.7	15.5	218	218	218
2 April	165	223	154	22.2	28.8	15.8	223	264	191
3 April	155	174	112	16.9	22.1	13.1	231	254	193
4 April	187	214	123	17.9	22.2	15.4	209	221	179
5 April	158	199	135	16.5	24.4	13.0	218	240	201
6 April	175	196	147	16.2	21.0	14.2	211	233	174
7 April	175	213	131	15.1	18.2	12.6	217	247	204
8 April	195	215	135	15.5	22.0	13.4	220	242	204
9 April	179	200	145	14.2	15.6	11.4	205	220	191
10 April	181	206	142	13.8	14.7	12.9	193	213	176
11 April	175	206	130	14.3	16.4	11.8	190	201	165
12 April	161	177	151	14.4	15.9	13.4	196	213	186
13 April	183	204	130	15.6	17.2	14.0	209	229	188
14 April	165	181	132	15.3	16.9	13.3	217	230	180
15 April	179	203	143	15.9	17.5	13.9	218	244	205
16 April	166	185	120	16.5	19.9	13.2	219	245	189
17 April	166	187	128	18.3	23.7	15.4	226	240	201
18 April	170	184	127	18.6	24.1	14.8	223	250	207
19 April	158	184	124	18.3	21.4	14.4	193	243	178
20 April	158	190	126	15.4	24.1	12.4	214	227	182
21 April	158	206	130	14.0	18.4	12.9	192	210	152
22 April	168	192	122	13.0	14.1	11.0	210	225	179
23 April	175	189	146	14.0	19.1	12.1	224	232	198
24 April	172	188	132	14.2	18.4	12.2	212	236	189
25 April	157	184	123	13.2	15.3	12.1	197	226	160
26 April	165	191	122	12.5	14.7	10.4	210	245	180
27 April	150	175	127	11.6	12.5	10.4	220	254	154
28 April	152	169	129	12.6	14.5	12.0	204	233	188
29 April	159	173	130	12.8	14.1	11.9	186	214	170
30 April	154	169	129	14.5	47.2	11.8	194	222	154

Unit 2 Boiler Continuous Emission Monitoring Summary

EPA Identification no. 12 - Air emissions monitoring, Boiler 2 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 April	140	188	110	19.9	25.5	17.8	194	240	132
2 April	149	173	107	20.4	26.1	15.4	232	264	124
3 April	149	194	108	20.3	25.4	16.0	221	243	169
4 April	156	193	121	20.6	25.1	18.8	204	232	132
5 April	149	194	121	19.6	23.2	16.7	198	217	147
6 April	127	200	107	19.8	25.1	15.3	210	229	170
7 April	126	176	107	16.9	20.1	14.6	209	228	173
8 April	137	179	109	16.1	20.9	13.2	218	236	195
9 April	144	195	119	17.6	20.1	13.8	199	214	177
10 April	139	184	113	19.8	22.6	16.5	183	207	136
11 April	150	178	133	20.6	23.7	17.6	180	195	125
12 April	142	200	116	19.9	23.4	17.2	183	213	135
13 April	153	172	118	19.6	24.9	15.6	205	236	151
14 April	151	181	120	19.0	21.2	16.8	201	224	157
15 April	159	196	114	19.5	26.3	17.4	208	241	166
16 April	151	174	109	19.7	22.5	16.8	218	241	173
17 April	147	176	116	20.0	26.2	16.9	220	235	172
18 April	159	199	108	20.3	23.7	17.1	223	235	184
19 April	146	183	101	19.5	24.9	16.4	195	216	172
20 April	150	197	130	19.9	24.4	16.0	210	233	160
21 April	149	196	124	20.0	24.9	16.5	191	208	132
22 April	163	200	131	19.6	22.7	16.9	215	231	167
23 April	168	189	133	20.7	25.9	17.5	217	253	155
24 April	165	188	133	20.4	26.1	17.8	220	257	199
25 April	135	179	109	18.9	21.9	15.0	207	225	157
26 April	153	183	113	18.5	22.2	15.9	211	231	177
27 April	143	174	116	19.5	22.7	17.4	222	262	204
28 April	144	184	118	20.2	23.2	16.9	199	233	162
29 April	161	183	129	20.3	24.1	17.5	183	200	154
30 April	153	170	113	19.5	23.6	17.4	187	210	145

Unit 3 Boiler Continuous Emission Monitoring Summary

EPA Identification no. 13 - Air emissions monitoring, Boiler 3 stack discharge to air

Unit 3 out of service 12 - 18 April 2019

	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 April	215	242	170	13.1	15.3	12.2	262	277	235
2 April	203	234	149	14.4	18.0	12.2	276	298	252
3 April	188	238	146	13.4	15.8	12.2	255	272	226
4 April	198	230	146	13.2	15.3	11.7	254	271	220
5 April	194	222	143	13.3	14.3	12.1	261	282	227
6 April	194	229	155	12.5	17.7	10.3	250	268	216
7 April	180	220	131	11.0	12.3	9.8	248	266	220
8 April	189	219	145	10.7	11.8	9.7	260	273	232
9 April	198	224	135	10.9	11.7	10.2	240	249	219
10 April	189	233	127	11.4	12.7	10.2	240	252	213
11 April	218	253	138	12.7	17.6	11.7	219	231	197
12 April	-	-	-	-	-	-	-	-	-
13 April	-	-	-	-	-	-	-	-	-
14 April	-	-	-	-	-	-	-	-	-
15 April	-	-	-	-	-	-	-	-	-
16 April	-	-	-	-	-	-	-	-	-
17 April	-	-	-	-	-	-	-	-	-
18 April	-	-	-	-	-	-	-	-	-
19 April	184	213	150	10.4	12.3	9.7	222	256	200
20 April	176	205	136	11.6	17.5	10.0	253	275	221
21 April	191	228	148	11.8	15.5	10.4	229	254	193
22 April	185	215	132	11.3	14.1	10.5	257	285	212
23 April	200	238	160	11.4	15.1	10.4	266	304	204
24 April	187	215	131	11.6	15.5	10.2	261	302	215
25 April	172	201	142	12.3	14.9	11.8	241	274	209
26 April	180	210	135	11.9	13.0	10.7	239	260	185
27 April	169	228	118	12.0	14.3	9.7	248	305	185
28 April	173	190	134	14.3	16.0	12.3	246	285	212
29 April	184	207	131	15.1	18.6	12.8	222	248	203
30 April	194	216	151	17.5	23.7	11.8	231	265	203

Unit 4 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 Ave	Max Hourly	Min Hourly	Daily Ave	Max Hourly	Min Hourly	Daily Ave	Max Hourly	Min Hourly
1 April	194	208	173	14.2	17.2	11.9	262	290	239
2 April	187	208	161	17.6	22.3	14.0	290	314	251
3 April	199	222	170	19.0	32.1	10.4	284	309	251
4 April	213	241	184	11.9	14.6	10.5	259	277	245
5 April	200	221	178	12.2	13.7	11.5	264	288	249
6 April	201	219	174	12.6	15.3	10.5	287	313	268
7 April	188	219	156	12.4	16.2	9.0	272	289	256
8 April	207	235	163	11.7	18.0	9.7	283	307	254
9 April	203	230	163	11.1	12.4	10.3	253	267	238
10 April	203	234	173	11.8	12.7	11.5	248	257	233
11 April	213	242	197	11.9	13.7	10.5	242	261	229
12 April	196	213	171	11.0	15.2	7.7	236	252	219
13 April	193	219	168	13.5	16.1	12.4	261	289	227
14 April	168	182	156	16.0	18.6	14.3	251	270	232
15 April	168	182	142	16.9	18.9	15.4	249	263	234
16 April	180	192	164	19.4	26.6	17.3	244	251	234
17 April	178	196	158	23.1	27.6	16.5	254	266	242
18 April	176	200	158	20.3	33.7	16.3	263	283	253
19 April	173	199	149	20.6	31.7	11.7	237	279	219
20 April	179	198	164	13.6	15.8	11.9	253	279	220
21 April	183	215	162	14.8	18.6	13.2	224	255	196
22 April	196	221	172	16.6	26.3	11.4	248	266	226
23 April	190	206	169	25.0	30.4	19.3	257	274	229
24 April	194	216	169	26.9	36.5	16.3	251	274	218
25 April	209	241	186	22.0	34.2	12.9	282	337	254
26 April	220	256	187	33.6	51.2	27.1	289	332	259
27 April	178	220	148	29.9	55.1	9.5	313	348	262
28 April	161	187	143	10.2	11.0	9.0	301	364	257
29 April	202	252	172	9.1	13.8	8.0	271	290	259
30 April	208	232	178	9.8	14.4	7.9	269	324	241

Unit 1 Boiler Emission Test Results

EPA Identification no. 11 - 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	13-14/11/2018
Carbon Dioxide (Wet)	13.8	%	-	13-14/11/2018
Carbon Monoxide	<40	ppm	-	13-14/11/2018
Chlorine	0.008	mg/m ³	200	13-14/11/2018
Copper	0.0003	mg/m ³	-	13-14/11/2018
Dry Gas Density	1.33	kg/m ³	-	13-14/11/2018
Fluoride As HF - Total	8.7	mg/m ³	50	13-14/11/2018
Hazardous Substances (Metals) - Total	≤0.0081	mg/m ³	1	13-14/11/2018
Hydrogen Chloride	14.4	mg/m ³	100	13-14/11/2018
Mercury	0.00020	mg/m ³	0.2	13-14/11/2018
Moisture	5.9	%	-	13-14/11/2018
Particulates - Total	1.2	mg/m ³	50	13-14/11/2018
Stack Gas Molecular Weight	29.9	kg/k-mole	-	13-14/11/2018
Temperature	127	degC	-	13-14/11/2018
Velocity	14	m/sec	-	13-14/11/2018
Volatile Organic Compounds (VOC) - Total	<0.02	ppm	-	13-14/11/2018
Volumetric Flow Rate (Dry At STP)	348	m ³ /sec	-	13-14/11/2018

Unit 2 Boiler Emission Test Results

EPA Identification no. 12 - 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	27-28/02/2018
Carbon Dioxide (Wet)	12.9	%	-	27-28/02/2018
Carbon Monoxide	14	ppm	-	27-28/02/2018
Chlorine	0.033	mg/m ³	200	27-28/02/2018
Copper	0.0009	mg/m ³	-	27-28/02/2018
Dry Gas Density	1.4	kg/m ³	-	27-28/02/2018
Fluoride As HF - Total	10.4	mg/m ³	50	27-28/02/2018
Hazardous Substances (Metals) - Total	≤0.0097	mg/m ³	1	27-28/02/2018
Hydrogen Chloride	9.6	mg/m ³	100	27-28/02/2018
Mercury	0.00051	mg/m ³	0.2	27-28/02/2018
Moisture	7.2	%	-	27-28/02/2018
Particulates - Total	3.4	mg/m ³	50	27-28/02/2018
Stack Gas Molecular Weight	30.5	Kg/k-mole	-	27-28/02/2018
Temperature	122	degC	-	27-28/02/2018
Velocity	14	m/sec	-	27-28/02/2018
Volatile Organic Compounds (VOC) - Total	<0.06	ppm	-	27-28/02/2018
Volumetric Flow Rate (Dry At STP)	336	m ³ /sec	-	27-28/02/2018

Unit 3 Boiler Emission Test Results

EPA Identification no. 13 - 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	<0.0002	mg/m ³	0.2	29-30/05/2018
Carbon Dioxide (Wet)	13.2	%	-	29-30/05/2018
Carbon Monoxide	5.4	ppm	-	29-30/05/2018
Chlorine	<0.014	mg/m ³	200	29-30/05/2018
Copper	<0.00046	mg/m ³	-	29-30/05/2018
Dry Gas Density	1.36	kg/m ³	-	29-30/05/2018
Fluoride As HF - Total	9.5	mg/m ³	50	29-30/05/2018
Hazardous Substances (Metals) - Total	<0.011	mg/m ³	1	29-30/05/2018
Hydrogen Chloride	11.5	mg/m ³	100	29-30/05/2018
Mercury	<0.00033	mg/m ³	0.2	29-30/05/2018
Moisture	7.2	%	-	29-30/05/2018
Particulates - Total	5.3	mg/m ³	50	29-30/05/2018
Stack Gas Molecular Weight	30.5	kg/k-mole	-	29-30/05/2018
Temperature	117	degC	-	29-30/05/2018
Velocity	15.0	m/sec	-	29-30/05/2018
Volatile Organic Compounds (VOC) - Total	<0.006	ppm	-	29-30/05/2018
Volumetric Flow Rate (Dry At STP)	361	m ³ /sec	-	29-30/05/2018

Unit 4 Boiler Emission Test Results

EPA Identification no. 14 - 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	<0.00014	mg/m ³	0.2	20-21/08/2018
Carbon Dioxide (Wet)	13.2	%	-	20-21/08/2018
Carbon Monoxide	54	ppm	-	20-21/08/2018
Chlorine	<0.006	mg/m ³	200	20-21/08/2018
Copper	0.00054	mg/m ³	-	20-21/08/2018
Dry Gas Density	1.36	kg/m ³	-	20-21/08/2018
Fluoride As HF - Total	10.5	mg/m ³	50	20-21/08/2018
Hazardous Substances (Metals) - Total	≤0.0093	mg/m ³	1	20-21/08/2018
Hydrogen Chloride	6.7	mg/m ³	100	20-21/08/2018
Mercury	0.0013	mg/m ³	0.2	20-21/08/2018
Moisture	6.4	%	-	20-21/08/2018
Particulates - Total	2.6	mg/m ³	50	20-21/08/2018
Stack Gas Molecular Weight	29.7	kg/k-mole	-	20-21/08/2018
Temperature	121	degC	-	20-21/08/2018
Velocity	15.5	m/sec	-	20-21/08/2018
Volatile Organic Compounds (VOC) - Total	0.025	ppm	-	20-21/08/2018
Volumetric Flow Rate (Dry At STP)	370	m ³ /sec	-	20-21/08/2018

Eraring Depositional Dust Gauges

*EPA Identification no. 18, 25, 26 & 27 - Depositional dust monitoring within 1km
of the coal handling operations*

	Deposited Matter		
	g/m ² /month		
	Ash	Combustible	Insoluble
E2	1.0	0.3	1.3
E4	0.5	0.2	0.7
E6	0.7	0.7	1.4
U6	0.5	0.5	1.0

Water Quality - Lake Monitoring LM10

EPA Identification no. 4 - The waters of Lake Macquarie located midway between cooling water inlet and Hungary Point

	Temp	pH	Salinity	Dissolved Oxygen		Secchi
	degC		ppt	%	mg/L	m
Depth/Air	24.1					
010cm	23.10	8.13	36.6	57.7	3.86	1.50
050cm	23.07	8.13	36.5	60.8	4.08	
100cm	23.07	8.12	36.5	60.1	4.05	
150cm	23.05	8.12	36.6	57.1	3.83	
Bottom	22.99	8.12	36.6	53.5	3.61	

Water Quality - Lake Monitoring LM12

EPA Identification no. 6 - The waters of Lake Macquarie located at the Eraring/Vales Point mixing zone off Fishery Point

	Temp	pH	Salinity	Dissolved Oxygen		Secchi
	degC		ppt	%	mg/L	m
Depth/Air	24.0					
010cm	23.70	8.07	36.6	72.0	4.80	3.53
050cm	23.60	8.08	36.6	69.1	4.61	
100cm	23.75	8.08	36.6	65.2	4.34	
150cm	23.77	8.09	36.6	64.0	4.25	
200cm	23.76	8.09	36.6	65.0	4.33	
250cm	23.76	8.09	36.6	63.5	4.22	
300cm	23.75	8.09	36.6	64.1	4.26	
350cm	23.74	8.09	36.6	60.1	4.00	
400cm	23.73	8.09	36.6	58.5	3.94	
450cm	23.72	8.09	36.6	59.9	3.98	
500cm	23.69	8.09	36.6	54.5	3.62	
550cm	23.68	8.09	36.6	61.9	4.12	
Bottom	23.56	8.09	36.8	52.3	3.50	

Water Quality - Lake Monitoring LM4

EPA Identification no. 7 - The northern waters of Lake Macquarie east off Lake Macquarie Yacht Club

	Temp	pH	Salinity	Dissolved Oxygen		Secchi
	degC		ppt	%	mg/L	m
Depth/Air	24.1					
010cm	22.28	7.86	36.1	74.1	5.07	6.75
050cm	22.24	7.86	36.1	72.1	4.94	
100cm	22.30	7.87	36.0	68.7	4.69	
150cm	22.34	7.86	36.0	69.5	4.76	
200cm	22.41	7.87	35.9	66.5	4.55	
250cm	22.48	7.88	35.8	68.9	4.77	
300cm	22.45	7.89	35.8	69.3	4.73	
350cm	22.47	8.04	35.8	64.5	4.38	
400cm	22.45	8.06	35.8	64.1	4.30	
450cm	22.46	8.09	35.8	68.6	4.68	
500cm	22.49	8.12	35.8	65.1	4.43	
550cm	22.47	8.13	35.8	68.5	4.69	
600cm	22.52	8.16	35.8	66.2	4.47	
650cm	22.63	8.18	35.8	70.1	4.78	
700cm	22.64	8.19	35.8	72.1	4.94	
750cm	22.67	8.21	35.8	72.9	4.97	
800cm	22.77	8.23	35.8	66.9	4.52	
850cm	22.83	8.24	36.1	69.5	4.71	
Bottom	22.84	8.24	36.1	64.5	3.65	

Water Quality - Lake Monitoring LM7

EPA Identification no. 5 - The waters of Lake Macquarie located off old Wangi power station inlet point in Myuna Bay

	Temp	pH	Salinity	Dissolved Oxygen		Secchi
	degC		ppt	%	mg/L	m
Depth/Air	24.1					
010cm	25.77	8.05	36.6	80.8	5.20	2.53
050cm	25.91	8.05	36.6	78.1	5.02	
100cm	25.91	8.06	36.6	75.5	4.86	
150cm	25.91	8.06	36.6	74.2	4.76	
200cm	25.87	8.06	36.6	73.2	4.72	
250cm	25.85	8.07	36.6	70.0	4.50	
300cm	25.81	8.07	36.6	73.7	4.73	
350cm	25.84	8.07	36.6	77.9	5.01	
400cm	25.85	8.08	36.6	78.6	5.05	
450cm	25.80	8.08	36.6	73.5	4.73	
Bottom	24.99	8.07	36.6	60.8	3.96	

Eraring Ash Dam Effluent Quality Monitoring

EPA Identification no. 10 - Discharge point below siphon pond weir at Ash Dam

Name	Reading	Units	Licence Limit	Date
Cadmium	0.05	ug/L	-	4/04/2019
Copper	0.8	ug/L	-	4/04/2019
Iron	39	ug/L	-	4/04/2019
Lead	0.4	ug/L	-	4/04/2019
Manganese	18.2	ug/L	-	4/04/2019
pH	8.99	pH	-	4/04/2019
Selenium	36.4	ug/L	-	4/04/2019
Total Suspended Solids	8	mg/L	-	4/04/2019
Zinc	<1	ug/L	-	4/04/2019
Nitrite and Nitrate as N	2170	ug/L	-	4/04/2019
Phosphorus Reactive as P - Total	440	ug/L	-	4/04/2019
Phosphorus as P - Total	450	ug/L	-	4/04/2019

Eraring Cooling Water Inlet Canal

EPA Identification no. 8 - Inlet canal of the cooling water intake from Lake Macquarie

Name	Reading	Units	Licence Limit	Date
Copper	1.5	ug/L	-	4/04/2019
Iron	135	ug/L	-	4/04/2019
Selenium	2	ug/L	-	4/04/2019
Temperature – Average	23.5	deg C	-	April 2019
Temperature – Minimum	22.1	deg C	-	April 2019
Temperature - Maximum	25.4	deg C	-	April 2019

Eraring Cooling Water Outlet Canal

EPA Identification no. 1 - Cooling water outlet canal to Myuna Bay

Name	Reading	Units	Licence Limit	Date
Iron	108	ug/L	300	4/04/2019
Selenium	2	ug/L	2	4/04/2019
Temperature – Average	32.2	deg C	37.5	April 2019
Temperature – Minimum	27.2	deg C	37.5	April 2019
Temperature - Maximum	35.3	deg C	37.5	April 2019
Maximum Daily Discharge from Ash Dam	22.22	ML	150	April 2019
Monthly Discharge from Ash Dam	326.6	ML	-	

Emergency Discharge – Toe Drain Pond

EPA Identification no. 17 - Emergency discharge to toe drain collection pond

Name	Reading	Units	Licence Limit	Date
Nitrite and Nitrate as N	<2	ug/L	-	4/04/2019
Phosphorus as P – Total	78	ug/L	-	4/04/2019
Cadmium	<0.05	ug/L	-	4/04/2019

Copper	<0.5	ug/L	-	4/04/2019
Iron	9420	ug/L	-	4/04/2019
Lead	0.2	ug/L	-	4/04/2019
Manganese	996	ug/L	-	4/04/2019
pH	6.68	ug/L	-	4/04/2019
Selenium	<0.2	ug/L	-	4/04/2019
Zinc	10	ug/L	-	4/04/2019

Groundwater Monitoring

Groundwater Well – MW01

EPA Identification no. 21 – Groundwater Monitoring Well 01

Name	Reading	Units	Date
Arsenic	1.5	ug/L	12/12/2018
Cadmium	<0.05	ug/L	12/12/2018
Calcium	1000	ug/L	12/12/2018
Chromium	3.4	ug/L	12/12/2018
Copper	7.7	ug/L	12/12/2018
Electrical Conductivity	0.321	mS/cm	12/12/2018
Iron	2100	ug/L	12/12/2018
Lead	6.9	ug/L	12/12/2018
Magnesium	4000	ug/L	12/12/2018
Manganese	77.1	ug/L	12/12/2018
Nickel	5.0	ug/L	12/12/2018
pH	4.97	pH	12/12/2018
Potassium	4000	ug/L	12/12/2018
Selenium	0.6	ug/L	12/12/2018
Standing Water Level	9.850	metres	12/12/2018
Zinc	29	ug/L	12/12/2018

Groundwater Well – MW02

EPA Identification no. 22 – Groundwater Monitoring Well 02

Name	Reading	Units	Date
Arsenic	9.4	ug/L	12/12/2018
Cadmium	0.06	ug/L	12/12/2018
Calcium	356000	ug/L	12/12/2018
Chromium	1.4	ug/L	12/12/2018
Copper	0.7	ug/L	12/12/2018
Electrical Conductivity	16	mS/cm	12/12/2018
Iron	5270	ug/L	12/12/2018
Lead	1.4	ug/L	12/12/2018
Magnesium	229000	ug/L	12/12/2018
Manganese	1310	ug/L	12/12/2018
Nickel	2.6	ug/L	12/12/2018
pH	6.57	pH	12/12/2018
Potassium	112000	ug/L	12/12/2018
Selenium	0.3	ug/L	12/12/2018
Standing Water Level	4.250	metres	12/12/2018
Zinc	21	ug/L	12/12/2018

Groundwater Well – MW06

EPA Identification no. 23 – Groundwater Monitoring Well 06

Name	Reading	Units	Date
Arsenic	6.0	ug/L	12/12/2018
Cadmium	<0.05	ug/L	12/12/2018
Calcium	479000	ug/L	12/12/2018
Chromium	0.8	ug/L	12/12/2018
Copper	<0.5	ug/L	12/12/2018
Electrical Conductivity	21	mS/cm	12/12/2018
Iron	13700	ug/L	12/12/2018
Lead	<0.1	ug/L	12/12/2018
Magnesium	274000	ug/L	12/12/2018
Manganese	409	ug/L	12/12/2018
Nickel	0.8	ug/L	12/12/2018
pH	6.56	pH	12/12/2018
Potassium	124000	ug/L	12/12/2018
Selenium	0.4	ug/L	12/12/2018
Standing Water Level	1.882	metres	12/12/2018
Zinc	3	ug/L	12/12/2018

Groundwater Well – EGM/D26

EPA Identification no. 24 – Groundwater Monitoring Well D26
Groundwater well was dry during sampling in December 2018

Name	Reading	Units	Date
Arsenic		ug/L	
Cadmium		ug/L	
Calcium		ug/L	
Chromium		ug/L	
Copper		ug/L	
Electrical Conductivity		mS/cm	
Iron		ug/L	
Lead		ug/L	
Magnesium		ug/L	
Manganese		ug/L	
Nickel		ug/L	
pH		pH	
Potassium		ug/L	
Selenium		ug/L	
Standing Water Level		metres	
Zinc		ug/L	