



## Eraring Power Station - EPA Licence 1429

Rocky Point Rd, Dora Creek NSW 2264

### Environmental Monitoring Data

November 2020



## Unit 1A Boiler Continuous Emission Monitoring Summary

EPA Identification no.7 - Air emissions monitoring, Boiler 1 stack discharge to air

|             | NOX                      |            |            | Particulates      |            |            | SOX                      |            |            |
|-------------|--------------------------|------------|------------|-------------------|------------|------------|--------------------------|------------|------------|
|             | ppm (7% O <sub>2</sub> ) |            |            | mg/m <sup>3</sup> |            |            | ppm (7% O <sub>2</sub> ) |            |            |
|             | Daily Ave                | Max Hourly | Min Hourly | Daily Ave         | Max Hourly | Min Hourly | Daily Ave                | Max Hourly | Min Hourly |
| 1 November  | 143                      | 166        | 122        | 7.8               | 9.6        | 6.4        | 182                      | 195        | 168        |
| 2 November  | 153                      | 172        | 132        | 7.2               | 9.6        | 3.4        | 191                      | 201        | 171        |
| 3 November  | 148                      | 164        | 136        | 6.6               | 10.9       | 3.4        | 209                      | 218        | 185        |
| 4 November  | 135                      | 160        | 117        | 8.2               | 11.6       | 2.2        | 210                      | 217        | 202        |
| 5 November  | 139                      | 153        | 121        | 6.2               | 11.6       | 2.7        | 213                      | 235        | 195        |
| 6 November  | 147                      | 162        | 127        | 4.5               | 6.2        | 3.1        | 207                      | 223        | 187        |
| 7 November  | 140                      | 156        | 126        | 3.6               | 4.1        | 2.9        | 218                      | 245        | 201        |
| 8 November  | 138                      | 167        | 127        | 5.4               | 7.3        | 2.1        | 214                      | 225        | 194        |
| 9 November  | 157                      | 179        | 124        | 2.4               | 2.4        | 2.4        | 240                      | 267        | 206        |
| 10 November | 161                      | 180        | 137        | 2.2               | 2.2        | 2.2        | 255                      | 288        | 219        |
| 11 November | 166                      | 195        | 130        | 4.2               | 7.2        | 2.0        | 225                      | 249        | 200        |
| 12 November | 155                      | 179        | 122        | 5.1               | 9.8        | 2.3        | 245                      | 282        | 181        |
| 13 November | 162                      | 185        | 128        | 4.1               | 5.6        | 2.3        | 234                      | 261        | 211        |
| 14 November | 139                      | 172        | 110        | 3.4               | 5.0        | 2.0        | 199                      | 223        | 170        |
| 15 November | 141                      | 176        | 109        | 3.3               | 5.1        | 2.0        | 196                      | 210        | 169        |
| 16 November | 144                      | 165        | 121        | 6.5               | 9.6        | 3.3        | 192                      | 211        | 165        |
| 17 November | 161                      | 183        | 131        | 3.1               | 4.1        | 2.0        | 184                      | 206        | 169        |
| 18 November | 156                      | 180        | 120        | 11.9              | 16.0       | 2.2        | 182                      | 193        | 174        |
| 19 November | 143                      | 165        | 114        | 16.3              | 22.1       | 10.6       | 186                      | 207        | 153        |
| 20 November | 143                      | 175        | 120        | 18.6              | 24.0       | 9.9        | 187                      | 208        | 170        |
| 21 November | 152                      | 182        | 115        | 18.9              | 24.4       | 15.1       | 178                      | 196        | 153        |
| 22 November | 147                      | 183        | 124        | 21.2              | 25.7       | 17.1       | 207                      | 244        | 175        |
| 23 November | 148                      | 182        | 128        | 20.8              | 31.3       | 16.2       | 228                      | 246        | 212        |
| 24 November | 149                      | 175        | 123        | 18.2              | 24.9       | 13.0       | 210                      | 225        | 195        |
| 25 November | 144                      | 158        | 128        | 18.6              | 27.6       | 11.6       | 226                      | 252        | 197        |
| 26 November | 147                      | 168        | 115        | 17.6              | 27.4       | 6.6        | 235                      | 263        | 195        |
| 27 November | 146                      | 175        | 117        | 18.0              | 23.4       | 12.1       | 227                      | 244        | 193        |
| 28 November | 156                      | 183        | 122        | 21.8              | 28.1       | 14.3       | 225                      | 235        | 207        |
| 29 November | 148                      | 170        | 129        | 22.6              | 32.8       | 11.5       | 226                      | 259        | 189        |
| 30 November | 144                      | 175        | 124        | 20.0              | 25.2       | 14.9       | 211                      | 246        | 179        |

## Unit 1B Boiler Continuous Emission Monitoring Summary

EPA Identification no.8 - Air emissions monitoring, Boiler 1 stack discharge to air

|             | NOX                      |            |            | Particulates      |            |            | SOX                      |            |            |
|-------------|--------------------------|------------|------------|-------------------|------------|------------|--------------------------|------------|------------|
|             | ppm (7% O <sub>2</sub> ) |            |            | mg/m <sup>3</sup> |            |            | ppm (7% O <sub>2</sub> ) |            |            |
|             | Daily Ave                | Max Hourly | Min Hourly | Daily Ave         | Max Hourly | Min Hourly | Daily Ave                | Max Hourly | Min Hourly |
| 1 November  | 142                      | 169        | 116        | 9.9               | 13.7       | 8.5        | 193                      | 203        | 183        |
| 2 November  | 151                      | 166        | 132        | 7.3               | 9.6        | 6.5        | 200                      | 207        | 191        |
| 3 November  | 137                      | 148        | 119        | 6.7               | 7.5        | 5.5        | 214                      | 220        | 197        |
| 4 November  | 130                      | 164        | 109        | 7.0               | 14.9       | 4.6        | 210                      | 218        | 202        |
| 5 November  | 139                      | 154        | 117        | 10.4              | 14.9       | 6.6        | 217                      | 240        | 198        |
| 6 November  | 146                      | 166        | 122        | 8.7               | 13.8       | 5.6        | 214                      | 228        | 202        |
| 7 November  | 137                      | 160        | 125        | 7.9               | 8.7        | 7.6        | 220                      | 246        | 203        |
| 8 November  | 135                      | 164        | 120        | 10.4              | 14.8       | 7.7        | 213                      | 227        | 201        |
| 9 November  | 151                      | 173        | 123        | 8.0               | 11.9       | 6.7        | 231                      | 254        | 213        |
| 10 November | 151                      | 170        | 126        | 8.0               | 11.8       | 6.6        | 243                      | 284        | 214        |
| 11 November | 161                      | 189        | 128        | 6.9               | 10.7       | 5.5        | 215                      | 241        | 191        |
| 12 November | 155                      | 186        | 121        | 8.4               | 15.0       | 5.7        | 242                      | 273        | 195        |
| 13 November | 156                      | 181        | 125        | 8.0               | 9.8        | 5.7        | 227                      | 248        | 207        |
| 14 November | 136                      | 163        | 113        | 9.5               | 13.1       | 6.8        | 195                      | 209        | 180        |
| 15 November | 139                      | 157        | 107        | 9.9               | 15.3       | 6.0        | 197                      | 216        | 178        |
| 16 November | 146                      | 170        | 120        | 7.0               | 13.3       | 3.0        | 189                      | 206        | 177        |
| 17 November | 159                      | 177        | 120        | 6.5               | 7.1        | 6.0        | 183                      | 204        | 170        |
| 18 November | 160                      | 186        | 121        | 8.3               | 15.7       | 6.3        | 180                      | 200        | 171        |
| 19 November | 148                      | 169        | 121        | 8.4               | 15.7       | 6.3        | 186                      | 203        | 175        |
| 20 November | 145                      | 183        | 120        | 7.7               | 14.5       | 4.3        | 188                      | 211        | 168        |
| 21 November | 157                      | 190        | 118        | 7.4               | 12.7       | 6.3        | 178                      | 188        | 170        |
| 22 November | 155                      | 197        | 125        | 9.7               | 13.8       | 6.6        | 212                      | 235        | 178        |
| 23 November | 151                      | 189        | 116        | 6.9               | 11.9       | 5.7        | 229                      | 245        | 211        |
| 24 November | 147                      | 179        | 120        | 9.0               | 13.0       | 6.6        | 212                      | 221        | 195        |
| 25 November | 147                      | 203        | 126        | 8.0               | 12.3       | 6.0        | 223                      | 251        | 175        |
| 26 November | 139                      | 158        | 114        | 6.5               | 14.3       | 3.2        | 231                      | 252        | 205        |
| 27 November | 138                      | 165        | 117        | 7.6               | 11.6       | 5.3        | 224                      | 252        | 211        |
| 28 November | 147                      | 172        | 121        | 5.4               | 9.6        | 2.4        | 218                      | 232        | 199        |
| 29 November | 139                      | 168        | 113        | 6.9               | 11.2       | 3.1        | 223                      | 258        | 197        |
| 30 November | 137                      | 160        | 118        | 9.0               | 13.5       | 7.1        | 209                      | 237        | 194        |

## Unit 2A Boiler Continuous Emission Monitoring Summary

EPA Identification no. 9 - Air emissions monitoring, Boiler 2 stack discharge to air

NoX and SoX units Out of Service 20-23 November 2020

|             | NOX                      |            |            | Particulates      |            |            | SOX                      |            |            |
|-------------|--------------------------|------------|------------|-------------------|------------|------------|--------------------------|------------|------------|
|             | ppm (7% O <sub>2</sub> ) |            |            | mg/m <sup>3</sup> |            |            | ppm (7% O <sub>2</sub> ) |            |            |
|             | Daily Ave                | Max Hourly | Min Hourly | Daily Ave         | Max Hourly | Min Hourly | Daily Ave                | Max Hourly | Min Hourly |
| 1 November  | 144                      | 169        | 111        | 18.2              | 20.7       | 14.6       | 182                      | 195        | 166        |
| 2 November  | 163                      | 198        | 132        | 17.4              | 19.7       | 16.5       | 193                      | 198        | 184        |
| 3 November  | 150                      | 161        | 134        | 17.3              | 22.8       | 15.5       | 201                      | 208        | 187        |
| 4 November  | 155                      | 176        | 129        | 17.5              | 25.8       | 15.3       | 196                      | 204        | 177        |
| 5 November  | 158                      | 189        | 123        | 17.9              | 20.4       | 15.3       | 198                      | 222        | 163        |
| 6 November  | 152                      | 189        | 120        | 18.8              | 21.2       | 17.1       | 205                      | 214        | 185        |
| 7 November  | 131                      | 154        | 115        | 20.8              | 22.4       | 18.2       | 213                      | 235        | 195        |
| 8 November  | 119                      | 149        | 101        | 23.1              | 27.1       | 19.5       | 205                      | 218        | 177        |
| 9 November  | 135                      | 162        | 110        | 21.7              | 29.8       | 19.0       | 227                      | 252        | 206        |
| 10 November | 139                      | 155        | 123        | 20.2              | 23.3       | 18.1       | 230                      | 252        | 214        |
| 11 November | 145                      | 166        | 114        | 17.8              | 20.4       | 15.6       | 214                      | 239        | 183        |
| 12 November | 139                      | 168        | 109        | 18.1              | 21.8       | 15.5       | 218                      | 245        | 177        |
| 13 November | 143                      | 161        | 120        | 18.6              | 25.1       | 16.5       | 218                      | 241        | 199        |
| 14 November | 130                      | 153        | 100        | 19.5              | 22.0       | 17.6       | 176                      | 199        | 150        |
| 15 November | 133                      | 150        | 107        | 20.6              | 23.1       | 17.6       | 187                      | 198        | 167        |
| 16 November | 136                      | 164        | 108        | 20.4              | 26.1       | 16.7       | 179                      | 193        | 162        |
| 17 November | 134                      | 152        | 115        | 20.2              | 24.5       | 18.2       | 173                      | 186        | 163        |
| 18 November | 124                      | 144        | 107        | 21.5              | 24.6       | 18.4       | 177                      | 194        | 161        |
| 19 November | 109                      | 120        | 100        | 21.1              | 23.5       | 19.3       | 166                      | 175        | 148        |
| 20 November | -                        | -          | -          | 20.4              | 24.5       | 15.0       | -                        | -          | -          |
| 21 November | -                        | -          | -          | 20.7              | 22.1       | 17.9       | -                        | -          | -          |
| 22 November | -                        | -          | -          | 22.0              | 28.2       | 18.8       | -                        | -          | -          |
| 23 November | -                        | -          | -          | 21.5              | 23.0       | 20.0       | -                        | -          | -          |
| 24 November | 134                      | 145        | 125        | 22.8              | 27.9       | 20.3       | 201                      | 220        | 188        |
| 25 November | 138                      | 164        | 112        | 22.2              | 25.2       | 17.9       | 215                      | 254        | 195        |
| 26 November | 161                      | 188        | 120        | 22.7              | 27.7       | 18.8       | 220                      | 242        | 190        |
| 27 November | 169                      | 197        | 149        | 26.1              | 28.9       | 21.9       | 222                      | 233        | 204        |
| 28 November | 173                      | 199        | 144        | 22.6              | 26.0       | 18.3       | 218                      | 232        | 202        |
| 29 November | 164                      | 205        | 138        | 21.0              | 26.5       | 15.3       | 210                      | 246        | 181        |
| 30 November | 167                      | 203        | 138        | 20.5              | 21.5       | 18.3       | 209                      | 238        | 173        |

## Unit 2B Boiler Continuous Emission Monitoring Summary

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

|             | NOX                      |            |            | Particulates      |            |            | SOX                      |            |            |
|-------------|--------------------------|------------|------------|-------------------|------------|------------|--------------------------|------------|------------|
|             | ppm (7% O <sub>2</sub> ) |            |            | mg/m <sup>3</sup> |            |            | ppm (7% O <sub>2</sub> ) |            |            |
|             | Daily Ave                | Max Hourly | Min Hourly | Daily Ave         | Max Hourly | Min Hourly | Daily Ave                | Max Hourly | Min Hourly |
| 1 November  | 140                      | 166        | 123        | 9.6               | 12.6       | 6.7        | 174                      | 200        | 154        |
| 2 November  | 142                      | 160        | 118        | 10.0              | 12.6       | 5.4        | 179                      | 201        | 163        |
| 3 November  | 134                      | 150        | 115        | 8.9               | 15.4       | 4.9        | 188                      | 201        | 179        |
| 4 November  | 143                      | 167        | 120        | 8.3               | 14.1       | 4.8        | 183                      | 202        | 172        |
| 5 November  | 140                      | 156        | 125        | 9.8               | 13.2       | 4.8        | 182                      | 206        | 158        |
| 6 November  | 143                      | 157        | 128        | 10.5              | 16.5       | 5.2        | 188                      | 207        | 176        |
| 7 November  | 143                      | 156        | 132        | 9.2               | 14.6       | 5.6        | 196                      | 222        | 172        |
| 8 November  | 150                      | 167        | 134        | 9.4               | 11.8       | 6.6        | 200                      | 226        | 182        |
| 9 November  | 149                      | 170        | 124        | 9.6               | 13.9       | 6.6        | 209                      | 228        | 165        |
| 10 November | 145                      | 158        | 134        | 9.5               | 13.9       | 6.3        | 213                      | 249        | 195        |
| 11 November | 147                      | 177        | 135        | 8.3               | 14.6       | 4.3        | 199                      | 219        | 170        |
| 12 November | 143                      | 158        | 127        | 6.3               | 8.5        | 3.2        | 207                      | 234        | 181        |
| 13 November | 142                      | 163        | 125        | 7.7               | 11.2       | 4.6        | 203                      | 230        | 171        |
| 14 November | 138                      | 150        | 123        | 8.0               | 12.5       | 5.2        | 171                      | 184        | 160        |
| 15 November | 150                      | 180        | 117        | 8.4               | 13.5       | 3.0        | 187                      | 204        | 159        |
| 16 November | 140                      | 182        | 111        | 6.8               | 10.3       | 3.8        | 174                      | 199        | 163        |
| 17 November | 130                      | 144        | 116        | 8.7               | 11.2       | 5.9        | 157                      | 174        | 146        |
| 18 November | 128                      | 158        | 115        | 7.9               | 12.2       | 4.9        | 165                      | 194        | 144        |
| 19 November | 125                      | 149        | 114        | 7.5               | 11.0       | 4.8        | 163                      | 185        | 147        |
| 20 November | 143                      | 165        | 119        | 6.5               | 8.9        | 2.5        | 171                      | 207        | 147        |
| 21 November | 137                      | 146        | 126        | 7.1               | 10.4       | 5.3        | 157                      | 168        | 147        |
| 22 November | 144                      | 152        | 125        | 7.3               | 10.5       | 5.3        | 181                      | 217        | 152        |
| 23 November | 136                      | 152        | 122        | 5.9               | 9.4        | 5.3        | 204                      | 231        | 183        |
| 24 November | 141                      | 158        | 121        | 8.3               | 11.7       | 5.3        | 191                      | 222        | 167        |
| 25 November | 154                      | 180        | 131        | 7.2               | 10.8       | 5.6        | 201                      | 245        | 175        |
| 26 November | 160                      | 176        | 117        | 7.0               | 12.1       | 2.7        | 205                      | 222        | 185        |
| 27 November | 182                      | 201        | 157        | 7.3               | 9.2        | 5.8        | 212                      | 238        | 194        |
| 28 November | 194                      | 220        | 167        | 6.5               | 12.2       | 2.9        | 213                      | 233        | 191        |
| 29 November | 193                      | 252        | 155        | 7.6               | 22.1       | 3.6        | 207                      | 262        | 177        |
| 30 November | 182                      | 202        | 161        | 8.3               | 11.7       | 6.6        | 196                      | 217        | 173        |



## 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 <sub>2</sub> ) |            |            | mg/m <sup>3</sup> |            |            | ppm (7% O <sub>2</sub> ) |            |            |
|             | Daily Ave                | Max Hourly | Min Hourly | Daily Ave         | Max Hourly | Min Hourly | Daily Ave                | Max Hourly | Min Hourly |
| 1 November  | 146                      | 165        | 122        | 14.0              | 14.2       | 13.2       | 183                      | 194        | 171        |
| 2 November  | 154                      | 183        | 127        | 13.1              | 15.7       | 12.4       | 192                      | 196        | 184        |
| 3 November  | 156                      | 188        | 122        | 14.9              | 16.5       | 14.3       | 203                      | 215        | 190        |
| 4 November  | 170                      | 233        | 119        | 16.5              | 18.4       | 15.3       | 198                      | 207        | 191        |
| 5 November  | 188                      | 211        | 126        | 16.5              | 19.4       | 15.2       | 196                      | 214        | 182        |
| 6 November  | 192                      | 231        | 136        | 23.7              | 27.1       | 18.3       | 199                      | 206        | 194        |
| 7 November  | 169                      | 241        | 130        | 14.4              | 19.7       | 13.6       | 209                      | 223        | 196        |
| 8 November  | 149                      | 210        | 113        | 14.2              | 14.6       | 13.6       | 199                      | 202        | 195        |
| 9 November  | 180                      | 214        | 133        | 14.2              | 15.6       | 13.6       | 209                      | 231        | 195        |
| 10 November | 188                      | 232        | 136        | 14.0              | 15.3       | 13.3       | 222                      | 236        | 211        |
| 11 November | 194                      | 243        | 130        | 14.4              | 17.7       | 13.3       | 207                      | 225        | 184        |
| 12 November | 168                      | 205        | 132        | 14.7              | 27.8       | 13.5       | 210                      | 231        | 187        |
| 13 November | 171                      | 190        | 128        | 13.8              | 14.5       | 13.5       | 196                      | 231        | 171        |
| 14 November | 150                      | 185        | 120        | 13.5              | 13.5       | 13.5       | 180                      | 209        | 172        |
| 15 November | 133                      | 166        | 113        | 14.0              | 14.5       | 13.5       | 182                      | 197        | 167        |
| 16 November | 139                      | 179        | 106        | 14.2              | 15.5       | 13.5       | 173                      | 179        | 169        |
| 17 November | 188                      | 219        | 141        | 14.2              | 15.6       | 13.5       | 172                      | 186        | 160        |
| 18 November | 170                      | 213        | 132        | 14.2              | 15.4       | 13.3       | 178                      | 200        | 159        |
| 19 November | 138                      | 167        | 115        | 13.9              | 15.4       | 13.3       | 171                      | 183        | 162        |
| 20 November | 130                      | 166        | 110        | 14.2              | 15.4       | 13.3       | 175                      | 196        | 161        |
| 21 November | 150                      | 208        | 119        | 12.7              | 13.3       | 12.3       | 163                      | 166        | 159        |
| 22 November | 155                      | 219        | 125        | 14.1              | 15.3       | 13.3       | 182                      | 205        | 155        |
| 23 November | 149                      | 192        | 118        | 15.0              | 28.8       | 13.0       | 210                      | 223        | 195        |
| 24 November | 163                      | 197        | 129        | 13.4              | 14.1       | 12.7       | 190                      | 219        | 177        |
| 25 November | 134                      | 164        | 123        | 13.9              | 14.7       | 12.7       | 213                      | 233        | 179        |
| 26 November | 125                      | 145        | 116        | 14.8              | 15.8       | 13.7       | 210                      | 236        | 197        |
| 27 November | 124                      | 130        | 112        | 13.9              | 14.7       | 13.7       | 216                      | 231        | 201        |
| 28 November | 124                      | 139        | 114        | 14.9              | 15.7       | 13.7       | 204                      | 215        | 190        |
| 29 November | 127                      | 137        | 112        | 14.0              | 15.8       | 11.7       | 200                      | 240        | 172        |
| 30 November | 120                      | 130        | 112        | 13.7              | 13.7       | 13.7       | 204                      | 231        | 188        |

## 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 <sub>2</sub> ) |            |            | mg/m <sup>3</sup> |            |            | ppm (7% O <sub>2</sub> ) |            |            |
|             | Daily Ave                | Max Hourly | Min Hourly | Daily Ave         | Max Hourly | Min Hourly | Daily Ave                | Max Hourly | Min Hourly |
| 1 November  | 131                      | 161        | 106        | 12.8              | 19.9       | 6.5        | 149                      | 160        | 134        |
| 2 November  | 142                      | 172        | 110        | 12.3              | 30.2       | 8.3        | 156                      | 160        | 151        |
| 3 November  | 136                      | 171        | 103        | 14.7              | 25.6       | 7.0        | 163                      | 176        | 153        |
| 4 November  | 150                      | 218        | 101        | 13.6              | 24.4       | 6.6        | 158                      | 166        | 128        |
| 5 November  | 171                      | 194        | 104        | 15.9              | 24.6       | 6.6        | 160                      | 173        | 148        |
| 6 November  | 168                      | 207        | 118        | 15.5              | 23.4       | 8.5        | 163                      | 167        | 154        |
| 7 November  | 140                      | 212        | 104        | 17.2              | 23.0       | 10.4       | 168                      | 179        | 157        |
| 8 November  | 126                      | 188        | 105        | 20.2              | 24.0       | 10.2       | 162                      | 167        | 156        |
| 9 November  | 154                      | 190        | 107        | 15.8              | 23.6       | 9.8        | 170                      | 187        | 148        |
| 10 November | 168                      | 199        | 131        | 14.9              | 20.8       | 8.2        | 175                      | 192        | 142        |
| 11 November | 180                      | 228        | 114        | 16.2              | 29.7       | 8.8        | 168                      | 182        | 134        |
| 12 November | 152                      | 190        | 114        | 20.0              | 35.2       | 11.5       | 179                      | 199        | 158        |
| 13 November | 160                      | 183        | 117        | 18.7              | 27.6       | 10.6       | 171                      | 198        | 152        |
| 14 November | 140                      | 170        | 111        | 18.0              | 29.5       | 10.6       | 159                      | 185        | 151        |
| 15 November | 126                      | 158        | 103        | 17.7              | 31.5       | 11.3       | 159                      | 171        | 141        |
| 16 November | 130                      | 160        | 101        | 21.3              | 36.8       | 10.2       | 152                      | 159        | 145        |
| 17 November | 173                      | 205        | 123        | 14.2              | 21.9       | 8.4        | 150                      | 163        | 139        |
| 18 November | 156                      | 204        | 108        | 15.9              | 24.5       | 5.6        | 155                      | 173        | 144        |
| 19 November | 133                      | 158        | 107        | 16.5              | 23.6       | 11.0       | 150                      | 163        | 139        |
| 20 November | 126                      | 171        | 103        | 20.0              | 31.9       | 12.1       | 155                      | 170        | 145        |
| 21 November | 146                      | 206        | 111        | 17.8              | 26.7       | 8.3        | 144                      | 157        | 136        |
| 22 November | 149                      | 218        | 111        | 18.3              | 25.8       | 8.9        | 161                      | 183        | 133        |
| 23 November | 146                      | 205        | 113        | 20.5              | 29.3       | 11.4       | 184                      | 206        | 170        |
| 24 November | 157                      | 192        | 115        | 12.9              | 28.9       | 4.1        | 166                      | 196        | 152        |
| 25 November | 118                      | 158        | 102        | 17.5              | 24.0       | 6.2        | 183                      | 201        | 157        |
| 26 November | 114                      | 128        | 103        | 19.8              | 27.3       | 12.6       | 186                      | 206        | 168        |
| 27 November | 109                      | 119        | 102        | 21.1              | 27.2       | 18.0       | 188                      | 202        | 178        |
| 28 November | 113                      | 136        | 101        | 25.5              | 34.6       | 18.9       | 183                      | 198        | 165        |
| 29 November | 118                      | 139        | 104        | 24.7              | 34.7       | 16.9       | 180                      | 220        | 149        |
| 30 November | 109                      | 118        | 100        | 18.1              | 21.1       | 14.9       | 174                      | 197        | 162        |

## Unit 4A Boiler Continuous Emission Monitoring Summary

*EPA Identification no. 13 - Air emissions monitoring, Boiler 4 stack discharge to air  
Unit 4A Out of Service 1-13 November 2020, Particulates Unit Out of Service 14-17 November 2020*

|             | NOX                      |     |     | Particulates      |      |      | SOX                      |     |     |
|-------------|--------------------------|-----|-----|-------------------|------|------|--------------------------|-----|-----|
|             | ppm (7% O <sub>2</sub> ) |     |     | mg/m <sup>3</sup> |      |      | ppm (7% O <sub>2</sub> ) |     |     |
|             | Daily                    | Max | Min | Daily             | Max  | Min  | Daily                    | Max | Min |
| 1 November  | -                        | -   | -   | -                 | -    | -    | -                        | -   | -   |
| 2 November  | -                        | -   | -   | -                 | -    | -    | -                        | -   | -   |
| 3 November  | -                        | -   | -   | -                 | -    | -    | -                        | -   | -   |
| 4 November  | -                        | -   | -   | -                 | -    | -    | -                        | -   | -   |
| 5 November  | -                        | -   | -   | -                 | -    | -    | -                        | -   | -   |
| 6 November  | -                        | -   | -   | -                 | -    | -    | -                        | -   | -   |
| 7 November  | -                        | -   | -   | -                 | -    | -    | -                        | -   | -   |
| 8 November  | -                        | -   | -   | -                 | -    | -    | -                        | -   | -   |
| 9 November  | -                        | -   | -   | -                 | -    | -    | -                        | -   | -   |
| 10 November | -                        | -   | -   | -                 | -    | -    | -                        | -   | -   |
| 11 November | -                        | -   | -   | -                 | -    | -    | -                        | -   | -   |
| 12 November | -                        | -   | -   | -                 | -    | -    | -                        | -   | -   |
| 13 November | -                        | -   | -   | -                 | -    | -    | -                        | -   | -   |
| 14 November | 181                      | 187 | 171 | -                 | -    | -    | 181                      | 189 | 173 |
| 15 November | 201                      | 241 | 170 | -                 | -    | -    | 186                      | 195 | 178 |
| 16 November | 182                      | 216 | 168 | -                 | -    | -    | 173                      | 180 | 167 |
| 17 November | 186                      | 196 | 159 | -                 | -    | -    | 173                      | 185 | 164 |
| 18 November | 160                      | 188 | 147 | 11.7              | 15.8 | 8.1  | 170                      | 184 | 157 |
| 19 November | 155                      | 177 | 135 | 11.4              | 30.2 | 9.2  | 165                      | 177 | 153 |
| 20 November | 160                      | 175 | 145 | 10.9              | 14.1 | 7.4  | 175                      | 211 | 153 |
| 21 November | 153                      | 174 | 133 | 9.2               | 11.7 | 6.2  | 160                      | 170 | 151 |
| 22 November | 164                      | 180 | 140 | 12.0              | 13.7 | 8.5  | 175                      | 224 | 153 |
| 23 November | 156                      | 172 | 129 | 12.1              | 14.3 | 9.9  | 203                      | 221 | 185 |
| 24 November | 171                      | 194 | 154 | 13.3              | 17.4 | 10.0 | 189                      | 217 | 165 |
| 25 November | 171                      | 185 | 154 | 15.5              | 20.0 | 10.0 | 203                      | 228 | 182 |
| 26 November | 163                      | 182 | 149 | 20.3              | 25.2 | 16.9 | 202                      | 225 | 184 |
| 27 November | 171                      | 188 | 152 | 11.3              | 25.6 | 5.0  | 209                      | 225 | 191 |
| 28 November | 163                      | 182 | 149 | 7.0               | 8.1  | 5.0  | 196                      | 211 | 173 |
| 29 November | 171                      | 200 | 146 | 6.0               | 9.0  | 2.8  | 201                      | 223 | 167 |
| 30 November | 155                      | 178 | 141 | 5.8               | 6.9  | 3.9  | 189                      | 205 | 174 |



## Unit 4B Boiler Continuous Emission Monitoring Summary

*EPA Identification no. 14 - Air emissions monitoring, Boiler 4 stack discharge to air  
Unit 4B Out of Service 1-13 November 2020,*

|             | NOX                      |     |     | Particulates      |      |     | SOX                      |     |     |
|-------------|--------------------------|-----|-----|-------------------|------|-----|--------------------------|-----|-----|
|             | ppm (7% O <sub>2</sub> ) |     |     | mg/m <sup>3</sup> |      |     | ppm (7% O <sub>2</sub> ) |     |     |
|             | Daily                    | Max | Min | Daily             | Max  | Min | Daily                    | Max | Min |
| 1 November  | -                        | -   | -   | -                 | -    | -   | -                        | -   | -   |
| 2 November  | -                        | -   | -   | -                 | -    | -   | -                        | -   | -   |
| 3 November  | -                        | -   | -   | -                 | -    | -   | -                        | -   | -   |
| 4 November  | -                        | -   | -   | -                 | -    | -   | -                        | -   | -   |
| 5 November  | -                        | -   | -   | -                 | -    | -   | -                        | -   | -   |
| 6 November  | -                        | -   | -   | -                 | -    | -   | -                        | -   | -   |
| 7 November  | -                        | -   | -   | -                 | -    | -   | -                        | -   | -   |
| 8 November  | -                        | -   | -   | -                 | -    | -   | -                        | -   | -   |
| 9 November  | -                        | -   | -   | -                 | -    | -   | -                        | -   | -   |
| 10 November | -                        | -   | -   | -                 | -    | -   | -                        | -   | -   |
| 11 November | -                        | -   | -   | -                 | -    | -   | -                        | -   | -   |
| 12 November | -                        | -   | -   | -                 | -    | -   | -                        | -   | -   |
| 13 November | -                        | -   | -   | -                 | -    | -   | -                        | -   | -   |
| 14 November | 189                      | 201 | 180 | 9.8               | 12.0 | 8.7 | 175                      | 180 | 165 |
| 15 November | 199                      | 234 | 175 | 9.6               | 18.3 | 7.5 | 173                      | 184 | 160 |
| 16 November | 181                      | 205 | 166 | 9.6               | 13.7 | 7.5 | 158                      | 167 | 151 |
| 17 November | 167                      | 194 | 144 | 9.5               | 12.6 | 8.4 | 157                      | 167 | 142 |
| 18 November | 162                      | 193 | 145 | 8.4               | 10.5 | 5.3 | 163                      | 182 | 143 |
| 19 November | 170                      | 207 | 131 | 8.6               | 11.5 | 7.4 | 169                      | 184 | 160 |
| 20 November | 169                      | 195 | 146 | 8.9               | 11.5 | 5.4 | 174                      | 194 | 155 |
| 21 November | 155                      | 192 | 130 | 8.0               | 9.5  | 6.4 | 159                      | 168 | 150 |
| 22 November | 161                      | 179 | 138 | 8.7               | 10.5 | 6.4 | 176                      | 218 | 154 |
| 23 November | 159                      | 199 | 118 | 9.0               | 10.5 | 6.2 | 201                      | 220 | 182 |
| 24 November | 178                      | 206 | 156 | 9.5               | 11.2 | 7.1 | 187                      | 221 | 161 |
| 25 November | 179                      | 192 | 166 | 10.3              | 12.2 | 8.1 | 198                      | 223 | 179 |
| 26 November | 169                      | 189 | 125 | 11.0              | 15.5 | 9.3 | 198                      | 227 | 133 |
| 27 November | 172                      | 188 | 103 | 10.3              | 12.3 | 9.3 | 201                      | 222 | 140 |
| 28 November | 171                      | 189 | 153 | 8.7               | 12.4 | 6.1 | 197                      | 211 | 171 |
| 29 November | 181                      | 216 | 148 | 9.2               | 11.1 | 6.9 | 203                      | 221 | 168 |
| 30 November | 160                      | 201 | 142 | 9.7               | 10.0 | 8.9 | 188                      | 205 | 177 |

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### Unit 1 Boiler Emission Test Results

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*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 <sup>3</sup> | 0.2                  | 12/08/2020  |
| Mercury                              | <0.0002        | mg/m <sup>3</sup> | 0.05                 | 12/08/2020  |
| Solid Particles                      | <1             | mg/m <sup>3</sup> | 50                   | 12/08/2020  |
| Type 1 and 2 substances in Aggregate | <0.01          | mg/m <sup>3</sup> | 0.75                 | 12/08/2020  |

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*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 <sup>3</sup>   | 12/08/2020  |
| Flow Rate                                 | 332            | m <sup>3</sup> /sec | 12/08/2020  |
| Mercury                                   | <0.0002        | mg/m <sup>3</sup>   | 12/08/2020  |
| Moisture                                  | 5.1            | %                   | 12/08/2020  |
| Oxygen                                    | 6.2            | %                   | 12/08/2020  |
| Solid Particles                           | 1.7            | mg/m <sup>3</sup>   | 12/08/2020  |
| Temperature                               | 118            | degC                | 12/08/2020  |
| Type 1 and Type 2 substances in Aggregate | <0.0093        | mg/m <sup>3</sup>   | 12/08/2020  |

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*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 <sup>3</sup>   | 12/08/2020  |
| Flow Rate                                 | 392            | m <sup>3</sup> /sec | 12/08/2020  |
| Mercury                                   | <0.0002        | mg/m <sup>3</sup>   | 12/08/2020  |
| Moisture                                  | 5.5            | %                   | 12/08/2020  |
| Oxygen                                    | 8.1            | %                   | 12/08/2020  |
| Solid Particles                           | <0.6           | mg/m <sup>3</sup>   | 12/08/2020  |
| Temperature                               | 117            | degC                | 12/08/2020  |
| Type 1 and Type 2 substances in Aggregate | <0.012         | mg/m <sup>3</sup>   | 12/08/2020  |

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## Unit 2 Boiler Emission Test Results

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*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 <sup>3</sup> | 0.2                  | 12/08/2020  |
| Mercury                              | <0.0002        | mg/m <sup>3</sup> | 0.05                 | 12/08/2020  |
| Solid Particles                      | <3             | mg/m <sup>3</sup> | 50                   | 12/08/2020  |
| Type 1 and 2 substances in Aggregate | <0.009         | mg/m <sup>3</sup> | 0.75                 | 12/08/2020  |

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*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 <sup>3</sup>   | 12/08/2020  |
| Flow Rate                                 | 348            | m <sup>3</sup> /sec | 12/08/2020  |
| Mercury                                   | <0.0002        | mg/m <sup>3</sup>   | 12/08/2020  |
| Moisture                                  | 6.4            | %                   | 12/08/2020  |
| Oxygen                                    | 8.0            | %                   | 12/08/2020  |
| Solid Particles                           | 4.8            | mg/m <sup>3</sup>   | 12/08/2020  |
| Temperature                               | 126            | degC                | 12/08/2020  |
| Type 1 and Type 2 substances in Aggregate | <0.0091        | mg/m <sup>3</sup>   | 12/08/2020  |

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*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 <sup>3</sup>   | 12/08/2020  |
| Flow Rate                                 | 362            | m <sup>3</sup> /sec | 12/08/2020  |
| Mercury                                   | <0.0002        | mg/m <sup>3</sup>   | 12/08/2020  |
| Moisture                                  | 5.7            | %                   | 12/08/2020  |
| Oxygen                                    | 7.1            | %                   | 12/08/2020  |
| Solid Particles                           | <0.6           | mg/m <sup>3</sup>   | 12/08/2020  |
| Temperature                               | 114            | degC                | 12/08/2020  |
| Type 1 and Type 2 substances in Aggregate | <0.0082        | mg/m <sup>3</sup>   | 12/08/2020  |

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### Unit 3 Boiler Emission Test Results

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*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 <sup>3</sup> | 0.2                  | 13/08/2020  |
| Mercury                              | <0.0001        | mg/m <sup>3</sup> | 0.05                 | 13/08/2020  |
| Solid Particles                      | 1.1            | mg/m <sup>3</sup> | 50                   | 13/08/2020  |
| Type 1 and 2 substances in Aggregate | <0.03          | mg/m <sup>3</sup> | 0.75                 | 13/08/2020  |

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*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 <sup>3</sup>   | 13/08/2020  |
| Flow Rate                                 | 347            | m <sup>3</sup> /sec | 13/08/2020  |
| Mercury                                   | <0.0002        | mg/m <sup>3</sup>   | 13/08/2020  |
| Moisture                                  | 5.1            | %                   | 13/08/2020  |
| Oxygen                                    | 6.2            | %                   | 13/08/2020  |
| Solid Particles                           | 1.7            | mg/m <sup>3</sup>   | 13/08/2020  |
| Temperature                               | 119            | degC                | 13/08/2020  |
| Type 1 and Type 2 substances in Aggregate | <0.014         | mg/m <sup>3</sup>   | 13/08/2020  |

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*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 <sup>3</sup>   | 13/08/2020  |
| Flow Rate                                 | 389            | m <sup>3</sup> /sec | 13/08/2020  |
| Mercury                                   | <0.0001        | mg/m <sup>3</sup>   | 13/08/2020  |
| Moisture                                  | 5.4            | %                   | 13/08/2020  |
| Oxygen                                    | 6.7            | %                   | 13/08/2020  |
| Solid Particles                           | 0.61           | mg/m <sup>3</sup>   | 13/08/2020  |
| Temperature                               | 114            | degC                | 13/08/2020  |
| Type 1 and Type 2 substances in Aggregate | <0.044         | mg/m <sup>3</sup>   | 13/08/2020  |

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## Unit 4 Boiler Emission Test Results

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*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 <sup>3</sup> | 0.2                  | 8/09/2020   |
| Mercury                              | <0.0003        | mg/m <sup>3</sup> | 0.05                 | 8/09/2020   |
| Solid Particles                      | 1.5            | mg/m <sup>3</sup> | 50                   | 8/09/2020   |
| Type 1 and 2 substances in Aggregate | <0.01          | mg/m <sup>3</sup> | 0.75                 | 8/09/2020   |

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*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 <sup>3</sup>   | 8/09/2020   |
| Flow Rate                                 | 343            | m <sup>3</sup> /sec | 8/09/2020   |
| Mercury                                   | 0.00036        | mg/m <sup>3</sup>   | 8/09/2020   |
| Moisture                                  | 5.1            | %                   | 8/09/2020   |
| Oxygen                                    | 7.8            | %                   | 8/09/2020   |
| Solid Particles                           | 1.5            | mg/m <sup>3</sup>   | 8/09/2020   |
| Temperature                               | 124            | degC                | 8/09/2020   |
| Type 1 and Type 2 substances in Aggregate | <0.014         | mg/m <sup>3</sup>   | 8/09/2020   |

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*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 <sup>3</sup>   | 8/09/2020   |
| Flow Rate                                 | 306            | m <sup>3</sup> /sec | 8/09/2020   |
| Mercury                                   | <0.0002        | mg/m <sup>3</sup>   | 8/09/2020   |
| Moisture                                  | 5.3            | %                   | 8/09/2020   |
| Oxygen                                    | 9.2            | %                   | 8/09/2020   |
| Solid Particles                           | 1.4            | mg/m <sup>3</sup>   | 8/09/2020   |
| Temperature                               | 109            | degC                | 8/09/2020   |
| Type 1 and Type 2 substances in Aggregate | <0.011         | mg/m <sup>3</sup>   | 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<br>Identification | EPA Identification<br>No | Deposited Matter        |             |           |
|---------------------------|--------------------------|-------------------------|-------------|-----------|
|                           |                          | g/m <sup>2</sup> /month |             |           |
|                           |                          | Ash                     | Combustible | Insoluble |
| E2                        | 17                       | 0.3                     | 0.3         | 0.6       |
| E4                        | 18                       | 9.0                     | 3.7         | 12.7      |
| E6                        | 19                       | 0.8                     | 0.3         | 1.1       |
| U6                        | 20                       | 0.3                     | 0.1         | 0.4       |

*\*Sample EPA Identification Number 18 appears to have been contaminated, due to tree trimming, embankment mulching and embankment spray creeting undertaken along the rail line adjacent to the dust gauge.*



## 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      |
| 20.1     | 0.50  | 23.1       | 8.13    | 33.8     | 91.1             | 6.44 | 2.25   |

| <u>Name</u>                | <u>Reading</u> | <u>Units</u> | <u>Date</u> |
|----------------------------|----------------|--------------|-------------|
| Aluminium                  | 0.027          | mg/L         | 11/11/2020  |
| Ammonia                    | 0.22           | mg/L         | 11/11/2020  |
| Arsenic III                | <0.005         | mg/L         | 11/11/2020  |
| Arsenic V                  | <0.005         | mg/L         | 11/11/2020  |
| Cadmium                    | <0.0002        | mg/L         | 11/11/2020  |
| Chromium (Trivalent)       | <0.01          | mg/L         | 11/11/2020  |
| Chromium (VI)<br>Compounds | <0.01          | mg/L         | 11/11/2020  |
| Copper                     | 0.001          | mg/L         | 11/11/2020  |
| Iron                       | 0.043          | mg/L         | 11/11/2020  |
| Lead                       | <0.0002        | mg/L         | 11/11/2020  |
| Manganese                  | 0.0048         | mg/L         | 11/11/2020  |
| Nickel                     | <0.0005        | mg/L         | 11/11/2020  |
| pH                         | 7.84           | pH /units    | 11/11/2020  |
| Selenium                   | 0.001          | mg/L         | 11/11/2020  |
| Total Suspended Solids     | <5             | mg/L         | 11/11/2020  |
| Vanadium                   | 0.0039         | mg/L         | 11/11/2020  |
| Zinc                       | <0.005         | mg/L         | 11/11/2020  |

## 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      |
| 19.8     | 0.50  | 23.5       | 8.25    | 34.8     | 91.3             | 6.50 | 2.25   |

| Name                    | Reading | Units     | Date       |
|-------------------------|---------|-----------|------------|
| Aluminium               | 0.061   | mg/L      | 11/11/2020 |
| Ammonia                 | 0.22    | mg/L      | 11/11/2020 |
| Arsenic III             | <0.005  | mg/L      | 11/11/2020 |
| Arsenic V               | <0.005  | mg/L      | 11/11/2020 |
| Cadmium                 | <0.0002 | mg/L      | 11/11/2020 |
| Chromium (Trivalent)    | <0.01   | mg/L      | 11/11/2020 |
| Chromium (VI) Compounds | <0.01   | mg/L      | 11/11/2020 |
| Copper                  | 0.002   | mg/L      | 11/11/2020 |
| Iron                    | 0.044   | mg/L      | 11/11/2020 |
| Lead                    | <0.0002 | mg/L      | 11/11/2020 |
| Manganese               | 0.0054  | mg/L      | 11/11/2020 |
| Nickel                  | <0.0005 | mg/L      | 11/11/2020 |
| pH                      | 7.93    | pH /units | 11/11/2020 |
| Selenium                | 0.001   | mg/L      | 11/11/2020 |
| Total Suspended Solids  | <5      | mg/L      | 11/11/2020 |
| Vanadium                | 0.0032  | mg/L      | 11/11/2020 |
| Zinc                    | <0.005  | mg/L      | 11/11/2020 |

## 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      |
| 16.3     | 0.50  | 20.8       | 8.16    | 33.6     | 85.0             | 6.13 | 5.00   |

| <u>Name</u>             | <u>Reading</u> | <u>Units</u> | <u>Date</u> |
|-------------------------|----------------|--------------|-------------|
| Aluminium               | 0.006          | mg/L         | 11/11/2020  |
| Ammonia                 | 0.22           | mg/L         | 11/11/2020  |
| Arsenic III             | <0.005         | mg/L         | 11/11/2020  |
| Arsenic V               | <0.005         | mg/L         | 11/11/2020  |
| Cadmium                 | <0.0002        | mg/L         | 11/11/2020  |
| Chromium (Trivalent)    | <0.01          | mg/L         | 11/11/2020  |
| Chromium (VI) Compounds | <0.01          | mg/L         | 11/11/2020  |
| Copper                  | <0.001         | mg/L         | 11/11/2020  |
| Iron                    | <0.005         | mg/L         | 11/11/2020  |
| Lead                    | <0.0002        | mg/L         | 11/11/2020  |
| Manganese               | 0.0008         | mg/L         | 11/11/2020  |
| Nickel                  | <0.0005        | mg/L         | 11/11/2020  |
| pH                      | 7.59           | pH /units    | 11/11/2020  |
| Selenium                | <0.002         | mg/L         | 11/11/2020  |
| Total Suspended Solids  | <5             | mg/L         | 11/11/2020  |
| Vanadium                | 0.0027         | mg/L         | 11/11/2020  |
| Zinc                    | <0.005         | mg/L         | 11/11/2020  |

## 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      |
| 18.9     | 0.5   | 25.0       | 8.17    | 33.1     | 97.6             | 6.80 | 2.75   |

| <u>Name</u>             | <u>Reading</u> | <u>Units</u> | <u>Date</u> |
|-------------------------|----------------|--------------|-------------|
| Aluminium               | 0.061          | mg/L         | 11/11/2020  |
| Ammonia                 | 0.21           | mg/L         | 11/11/2020  |
| Arsenic III             | <0.005         | mg/L         | 11/11/2020  |
| Arsenic V               | <0.005         | mg/L         | 11/11/2020  |
| Cadmium                 | <0.0002        | mg/L         | 11/11/2020  |
| Chromium (Trivalent)    | <0.01          | mg/L         | 11/11/2020  |
| Chromium (VI) Compounds | <0.01          | mg/L         | 11/11/2020  |
| Copper                  | 0.001          | mg/L         | 11/11/2020  |
| Iron                    | 0.060          | mg/L         | 11/11/2020  |
| Lead                    | <0.0002        | mg/L         | 11/11/2020  |
| Manganese               | 0.0047         | mg/L         | 11/11/2020  |
| Nickel                  | <0.0005        | mg/L         | 11/11/2020  |
| pH                      | 7.89           | pH /units    | 11/11/2020  |
| Selenium                | <0.002         | mg/L         | 11/11/2020  |
| Total Suspended Solids  | <5             | mg/L         | 11/11/2020  |
| Vanadium                | 0.0029         | mg/L         | 11/11/2020  |
| Zinc                    | <0.005         | mg/L         | 11/11/2020  |

## 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                | 0.089          | mg/L         | -                    | 5/11/2020   |
| Ammonia                  | 0.75           | mg/L         | -                    | 5/11/2020   |
| Arsenic III              | <0.0005        | mg/L         | -                    | 5/11/2020   |
| Arsenic V                | 0.0060         | mg/L         | -                    | 5/11/2020   |
| Cadmium                  | 0.00016        | mg/L         | -                    | 5/11/2020   |
| Chromium (Trivalent)     | <0.001         | mg/L         | -                    | 5/11/2020   |
| Chromium (VI) Compounds  | <0.01          | mg/L         | -                    | 5/11/2020   |
| Copper                   | 0.0024         | mg/L         | -                    | 5/11/2020   |
| Iron                     | 0.026          | mg/L         | -                    | 5/11/2020   |
| Lead                     | <0.0001        | mg/L         | -                    | 5/11/2020   |
| Manganese                | 0.0374         | mg/L         | -                    | 5/11/2020   |
| Nickel                   | 0.0024         | mg/L         | -                    | 5/11/2020   |
| Nitrite and Nitrate as N | 2.76           | mg/L         | -                    | 5/11/2020   |
| Nitrogen                 | 3.7            | mg/L         | -                    | 5/11/2020   |
| pH                       | 8.09           | pH /units    | -                    | 5/11/2020   |
| Phosphorus as P          | 0.46           | mg/L         | -                    | 5/11/2020   |
| Reactive Phosphorus as P | 0.52           | mg/L         | -                    | 5/11/2020   |
| Selenium                 | 0.0210         | mg/L         | -                    | 5/11/2020   |
| Total Kjeldahl Nitrogen  | 0.9            | mg/L         | -                    | 5/11/2020   |
| Total Suspended Solids   | 5              | mg/L         | 50                   | 5/11/2020   |
| Vanadium                 | 0.0292         | mg/L         | -                    | 5/11/2020   |
| Zinc                     | 0.001          | mg/L         | -                    | 5/11/2020   |

## 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               | 0.022          | mg/L         | -                    | 5/11/2020     |
| Ammonia                 | 0.006          | mg/L         | -                    | 5/11/2020     |
| Arsenic III             | <0.005         | mg/L         | -                    | 5/11/2020     |
| Arsenic V               | 0.0058         | mg/L         | -                    | 5/11/2020     |
| Cadmium                 | <0.0002        | mg/L         | -                    | 5/11/2020     |
| Chromium (Trivalent)    | <0.001         | mg/L         | -                    | 5/11/2020     |
| Chromium (VI) Compounds | <0.01          | mg/L         | -                    | 5/11/2020     |
| Copper                  | 0.0011         | mg/L         | -                    | 5/11/2020     |
| Iron                    | 0.032          | mg/L         | -                    | 5/11/2020     |
| Lead                    | <0.0002        | mg/L         | -                    | 5/11/2020     |
| Manganese               | 0.0040         | mg/L         | -                    | 5/11/2020     |
| Nickel                  | <0.0005        | mg/L         | -                    | 5/11/2020     |
| pH                      | 8.04           | pH units     | -                    | 5/11/2020     |
| Selenium                | 0.002          | mg/L         | -                    | 5/11/2020     |
| Total suspended Solids  | <5             | mg/L         | -                    | 5/11/2020     |
| Vanadium                | <0.0005        | mg/L         | -                    | 5/11/2020     |
| Zinc                    | <0.005         | mg/L         | -                    | 5/11/2020     |
| Dissolved Oxygen        | 6.17           | mg/L         | -                    | 5/11/2020     |
| Field Temperature       | 21.1           | degC         | -                    | 5/11/2020     |
| Salinity                | 27.7           | ppt          | -                    | 5/11/2020     |
| Secchi Disk             | 2.75           | m            | -                    | 5/11/2020     |
| Temperature – Average   | 24.0           | deg C        | -                    | November 2020 |
| Temperature – Minimum   | 20.6           | deg C        | -                    | November 2020 |
| Temperature - Maximum   | 27.8           | deg C        | -                    | November 2020 |



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## Eraring Cooling Water Outlet Canal

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*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                               | 0.0017         | mg/L         | 0.005                | 5/11/2020     |
| Iron                                 | 0.209          | mg/L         | 0.3                  | 5/11/2020     |
| Selenium                             | <0.0010        | mg/L         | 0.002                | 5/11/2020     |
| Temperature – Average                | 30.6           | deg C        | 37.5                 | November 2020 |
| Temperature – Minimum                | 24.7           | deg C        | 37.5                 | November 2020 |
| Temperature - Maximum                | 35.1           | deg C        | 37.5                 | November 2020 |
| Maximum Daily Discharge from Ash Dam | 20.52          | ML           | 150                  | November 2020 |
| Monthly Discharge from Ash Dam       | 126.4          | ML           | -                    | November 2020 |

## 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                | 0.039          | mg/L         | -                    | 5/11/2020   |
| Ammonia                  | 2.15           | mg/L         | -                    | 5/11/2020   |
| Arsenic III              | <0.0005        | mg/L         | -                    | 5/11/2020   |
| Arsenic V                | 0.0011         | mg/L         | -                    | 5/11/2020   |
| Cadmium                  | <0.00005       | mg/L         | -                    | 5/11/2020   |
| Chromium (Trivalent)     | <0.001         | mg/L         | -                    | 5/11/2020   |
| Chromium (VI) Compounds  | <0.01          | mg/L         | -                    | 5/11/2020   |
| Copper                   | 0.0005         | mg/L         | -                    | 5/11/2020   |
| Iron                     | 4.58           | mg/L         | -                    | 5/11/2020   |
| Lead                     | <0.0001        | mg/L         | -                    | 5/11/2020   |
| Manganese                | 0.944          | mg/L         | -                    | 5/11/2020   |
| Nickel                   | 0.0010         | mg/L         | -                    | 5/11/2020   |
| Nitrite and Nitrate as N | 0.159          | mg/L         | -                    | 5/11/2020   |
| Nitrogen                 | 2.92           | mg/L         | -                    | 5/11/2020   |
| pH                       | 6.73           | pH /units    | 6-9.5                | 5/11/2020   |
| Phosphorus as P          | 0.019          | mg/L         | -                    | 5/11/2020   |
| Reactive Phosphorus as P | 0.016          | mg/L         | -                    | 5/11/2020   |
| Selenium                 | 0.0002         | mg/L         | -                    | 5/11/2020   |
| Total Kjeldahl Nitrogen  | 2.76           | mg/L         | -                    | 5/11/2020   |
| Total Suspended Solids   | 11             | mg/L         | 50                   | 5/11/2020   |
| Vanadium                 | 0.0010         | mg/L         | -                    | 5/11/2020   |
| Zinc                     | 0.012          | mg/L         | -                    | 5/11/2020   |

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**MR217**

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

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*Not Discharging November 2020*

| <u>Name</u>              | <u>Reading</u> | <u>Units</u> | <u>Licence Limit</u> | <u>Date</u> |
|--------------------------|----------------|--------------|----------------------|-------------|
| Aluminium                |                | mg/L         | -                    | 5/11/2020   |
| Ammonia                  |                | mg/L         | -                    | 5/11/2020   |
| Arsenic III              |                | mg/L         | -                    | 5/11/2020   |
| Arsenic V                |                | mg/L         | -                    | 5/11/2020   |
| Cadmium                  |                | mg/L         | -                    | 5/11/2020   |
| Chromium (Trivalent)     |                | mg/L         | -                    | 5/11/2020   |
| Chromium (VI) Compounds  |                | mg/L         | -                    | 5/11/2020   |
| Copper                   |                | mg/L         | -                    | 5/11/2020   |
| Iron                     |                | mg/L         | -                    | 5/11/2020   |
| Lead                     |                | mg/L         | -                    | 5/11/2020   |
| Manganese                |                | mg/L         | -                    | 5/11/2020   |
| Nickel                   |                | mg/L         | -                    | 5/11/2020   |
| Nitrite and Nitrate as N |                | mg/L         | -                    | 5/11/2020   |
| Nitrogen                 |                | mg/L         | -                    | 5/11/2020   |
| pH                       |                | pH /units    | 6-9.5                | 5/11/2020   |
| Phosphorus as P          |                | mg/L         | -                    | 5/11/2020   |
| Reactive Phosphorus as P |                | mg/L         | -                    | 5/11/2020   |
| Selenium                 |                | mg/L         | -                    | 5/11/2020   |
| Total Kjeldahl Nitrogen  |                | mg/L         | -                    | 5/11/2020   |
| Total Suspended Solids   |                | mg/L         | 50                   | 5/11/2020   |
| Vanadium                 |                | mg/L         | -                    | 5/11/2020   |
| Zinc                     |                | mg/L         | -                    | 5/11/2020   |

## Groundwater Monitoring Groundwater Well – MW01

EPA Identification no. 32 – Groundwater Monitoring Well 01

| Name                    | Reading  | Units  | Date      |
|-------------------------|----------|--------|-----------|
| Aluminium               | 0.497    | mg/L   | 8/09/2020 |
| Ammonia                 | 0.02     | mg/L   | 8/09/2020 |
| Arsenic (III)           | <0.0005  | mg/L   | 8/09/2020 |
| Arsenic (V)             | <0.0005  | mg/L   | 8/09/2020 |
| Cadmium                 | <0.00005 | mg/L   | 8/09/2020 |
| Calcium                 | 2        | mg/L   | 8/09/2020 |
| Chromium (trivalent)    | <0.05    | mg/L   | 8/09/2020 |
| Chromium (VI) compounds | <0.05    | mg/L   | 8/09/2020 |
| Copper                  | 0.0011   | mg/L   | 8/09/2020 |
| Electrical Conductivity | 417      | uS/cm  | 8/09/2020 |
| Iron                    | 0.530    | mg/L   | 8/09/2020 |
| Lead                    | 0.0013   | mg/L   | 8/09/2020 |
| Magnesium               | 4        | mg/L   | 8/09/2020 |
| Manganese               | 0.112    | mg/L   | 8/09/2020 |
| Nickel                  | 0.004    | mg/L   | 8/09/2020 |
| pH                      | 5.13     | pH     | 8/09/2020 |
| Potassium               | 4        | mg/L   | 8/09/2020 |
| Selenium                | <0.0002  | mg/L   | 8/09/2020 |
| Sodium                  | 64       | mg/L   | 8/09/2020 |
| Standing Water Level    | 7.61     | metres | 8/09/2020 |
| Vanadium                | 0.0009   | mg/L   | 8/09/2020 |
| Zinc                    | 0.034    | mg/L   | 8/09/2020 |

## Groundwater Well – MW02

EPA Identification no. 33 – Groundwater Monitoring Well 02

| Name                    | Reading | Units  | Date      |
|-------------------------|---------|--------|-----------|
| Aluminium               | 1.26    | mg/L   | 7/09/2020 |
| Ammonia                 | 4.57    | mg/L   | 7/09/2020 |
| Arsenic (III)           | 0.0016  | mg/L   | 7/09/2020 |
| Arsenic (V)             | 0.0007  | mg/L   | 7/09/2020 |
| Cadmium                 | <0.0002 | mg/L   | 7/09/2020 |
| Calcium                 | 236     | mg/L   | 7/09/2020 |
| Chromium (trivalent)    | <0.01   | mg/L   | 7/09/2020 |
| Chromium (VI) compounds | <0.01   | mg/L   | 7/09/2020 |
| Copper                  | 0.002   | mg/L   | 7/09/2020 |
| Electrical Conductivity | 13700   | uS/cm  | 7/09/2020 |
| Iron                    | 17.6    | mg/L   | 7/09/2020 |
| Lead                    | 0.0039  | mg/L   | 7/09/2020 |
| Magnesium               | 316     | mg/L   | 7/09/2020 |
| Manganese               | 1.05    | mg/L   | 7/09/2020 |
| Nickel                  | 0.0024  | mg/L   | 7/09/2020 |
| pH                      | 6.49    | pH     | 7/09/2020 |
| Potassium               | 179     | mg/L   | 7/09/2020 |
| Selenium                | <0.002  | mg/L   | 7/09/2020 |
| Sodium                  | 3540    | mg/L   | 7/09/2020 |
| Standing Water Level    | 4.172   | metres | 7/09/2020 |
| Vanadium                | 0.0058  | mg/L   | 7/09/2020 |
| Zinc                    | 0.049   | mg/L   | 7/09/2020 |

## Groundwater Well – MW06

EPA Identification no. 34 – Groundwater Monitoring Well 06

| Name                    | Reading | Units  | Date      |
|-------------------------|---------|--------|-----------|
| Aluminium               | 0.008   | mg/L   | 8/09/2020 |
| Ammonia                 | 3.25    | mg/L   | 8/09/2020 |
| Arsenic (III)           | 0.0011  | mg/L   | 8/09/2020 |
| Arsenic (V)             | 0.0010  | mg/L   | 8/09/2020 |
| Cadmium                 | <0.0002 | mg/L   | 8/09/2020 |
| Calcium                 | 468     | mg/L   | 8/09/2020 |
| Chromium (trivalent)    | <0.01   | mg/L   | 8/09/2020 |
| Chromium (VI) compounds | <0.01   | mg/L   | 8/09/2020 |
| Copper                  | <0.001  | mg/L   | 8/09/2020 |
| Electrical Conductivity | 19600   | uS/cm  | 8/09/2020 |
| Iron                    | 17.3    | mg/L   | 8/09/2020 |
| Lead                    | <0.0002 | mg/L   | 8/09/2020 |
| Magnesium               | 269     | mg/L   | 8/09/2020 |
| Manganese               | 0.423   | mg/L   | 8/09/2020 |
| Nickel                  | 0.0008  | mg/L   | 8/09/2020 |
| pH                      | 6.50    | pH     | 8/09/2020 |
| Potassium               | 119     | mg/L   | 8/09/2020 |
| Selenium                | <0.002  | mg/L   | 8/09/2020 |
| Sodium                  | 3600    | mg/L   | 8/09/2020 |
| Standing Water Level    | 1.848   | metres | 8/09/2020 |
| Vanadium                | 0.0007  | mg/L   | 8/09/2020 |
| Zinc                    | <0.005  | mg/L   | 8/09/2020 |

## Groundwater Well – EGM/D26

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

| Name                    | Reading | Units  | Date      |
|-------------------------|---------|--------|-----------|
| Aluminium               |         | mg/L   | 8/09/2020 |
| Ammonia                 |         | mg/L   | 8/09/2020 |
| Arsenic (III)           |         | mg/L   | 8/09/2020 |
| Arsenic (V)             |         | mg/L   | 8/09/2020 |
| Cadmium                 |         | mg/L   | 8/09/2020 |
| Calcium                 |         | mg/L   | 8/09/2020 |
| Chromium (trivalent)    |         | mg/L   | 8/09/2020 |
| Chromium (VI) compounds |         | mg/L   | 8/09/2020 |
| Copper                  |         | mg/L   | 8/09/2020 |
| Electrical Conductivity |         | uS/cm  | 8/09/2020 |
| Iron                    |         | mg/L   | 8/09/2020 |
| Lead                    |         | mg/L   | 8/09/2020 |
| Magnesium               |         | mg/L   | 8/09/2020 |
| Manganese               |         | mg/L   | 8/09/2020 |
| Nickel                  |         | mg/L   | 8/09/2020 |
| pH                      |         | pH     | 8/09/2020 |
| Potassium               |         | mg/L   | 8/09/2020 |
| Selenium                |         | mg/L   | 8/09/2020 |
| Sodium                  |         | mg/L   | 8/09/2020 |
| Standing Water Level    |         | metres | 8/09/2020 |
| Vanadium                |         | mg/L   | 8/09/2020 |
| Zinc                    |         | mg/L   | 8/09/2020 |