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**BLUESCOPE STEEL (AIS) PTY. LTD.**  
**Port Kembla Steelworks**  
**Licence 6092**

[Link to Environment Protection Licence EPL6092](#)

**LICENCE MONITORING DATA**  
**MONTHLY SUMMARY REPORT**

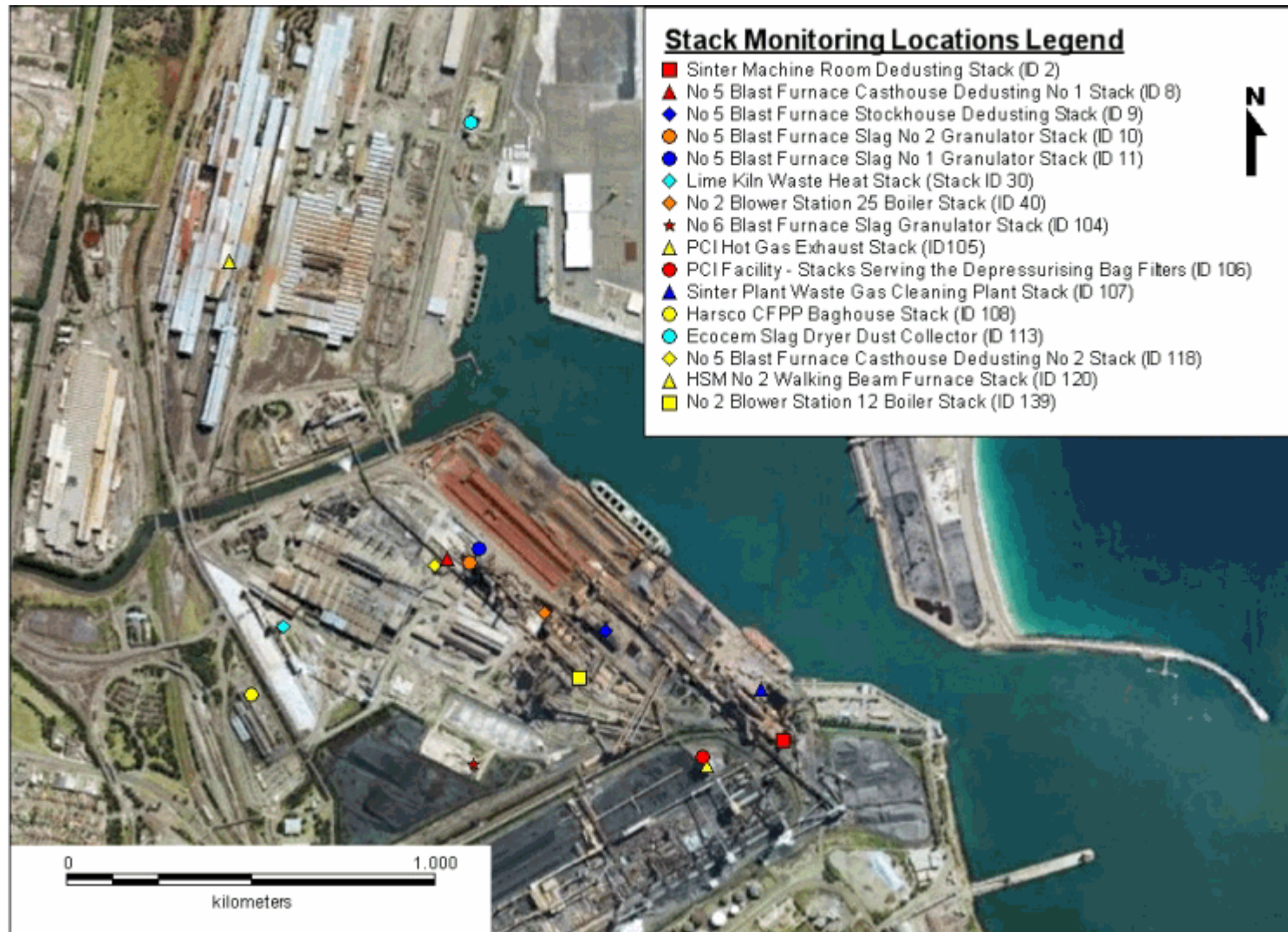
for

**1 Nov 2015 to 30 Nov 2015**

Monthly (November 2015) Report Published: 5, January, 2016

## Stack Air Monitoring Requirements

EPL6092 Conditions M2.2/M2.3/M8.2/E1.4



**Point 10:**

| Pollutant                       | Units of Measure          | Monitoring frequency required by licence | No. of times measured during month | Min. Value | Max Value | 100 Percentile Limit | Exceedance (yes / no) * |
|---------------------------------|---------------------------|--|------------------------------------|------------|-----------|----------------------|-------------------------|
| Dry Gas Density                 | Kilograms per cubic metre | Quarterly                                | 10                                 | 1.29       | 1.29      |                      | no                      |
| Hydrogen Sulphide               | Grams per second          | Quarterly                                | 1                                  | 0.62       | 0.62      | 1.20                 | no                      |
| Moisture                        | Percent                   | Quarterly                                | 10                                 | 4.40       | 7.30      |                      | no                      |
| Molecular Weight of stack gases | grams per gram mole       | Quarterly                                | 10                                 | 28.90      | 28.90     |                      | no                      |
| Temperature                     | Degrees Celcius           | Quarterly                                | 10                                 | 30.00      | 40.00     |                      | no                      |
| Velocity                        | Metres per second         | Quarterly                                | 10                                 | 1.80       | 2.60      |                      | no                      |
| Volumetric flowrate             | Cubic metres per second   | Quarterly                                | 11                                 | 20.00      | 27.00     |                      | no                      |
| <b>Comment:</b>                 |                           |  |                                    |            |           |                      |                         |

**Point 18:**

| Pollutant         | Units of Measure           | Monitoring frequency required by licence | No. of times measured during month | Min. Value | Mean Value | Median Value | Max. Value |
|-------------------|----------------------------|--|------------------------------------|------------|------------|--------------|------------|
| Hydrogen Sulphide | Milligrams per cubic metre | Quarterly                                | 2                                  | 3.30       | 4.35       | 4.35         | 5.40       |
| <b>Comment:</b>   |                            |  |                                    |            |            |              |            |

**Point O4.13:**

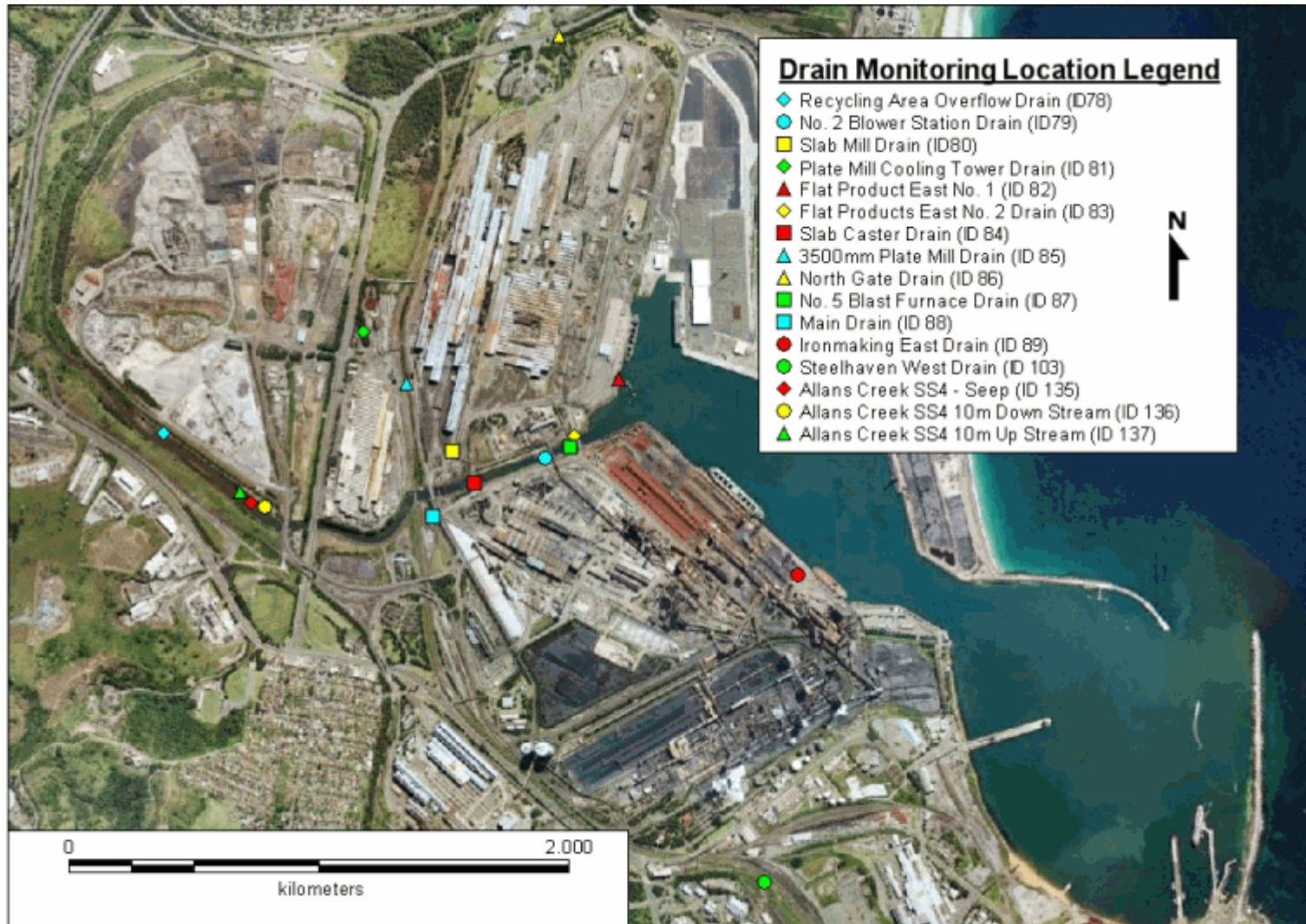
| Pollutant                     | Monitoring frequency required by licence | No of significant emissions measured during month | 100 Percentile Limit | Exceedance (yes/no) * |
|-------------------------------|--|---|----------------------|-----------------------|
| Emission - KISH Tipping DER 5 | Monthly                                  | 0   | 4                    | no                    |
| <b>Comment:</b>               |  |   |                      |                       |

**Point O4.14:**

| Pollutant                      | Monitoring frequency required by licence | No of significant emissions measured during month | 100 Percentile Limit | Exceedance (yes/no) * |
|--------------------------------|--|---|----------------------|-----------------------|
| Emission - Torpedo Ladle DER>3 | Monthly                                  | 0   | 4                    | no                    |
| <b>Comment:</b>                |  |   |                      |                       |

## Water and/or Land Monitoring Requirements

EPL6092 Condition M2.4/M2.5/M8.1/M8.3



**Point 78:**

| Pollutant                    | Units of Measure     | Monitoring frequency required by licence                              | No. of times measured during month | Min. Value | Mean Value | Median Value | Max. Value |
|------------------------------|----------------------|---|------------------------------------|------------|------------|--------------|------------|
| Total Suspended Solids       | Milligrams per litre | Daily during any discharge which is not due to Wet Weather Conditions | 0                                  |            |            |              |            |
| Volume of Liquids Discharged | Kilolitres per day   | Daily   | Continuous                         | 0.00       | 59.10      | 0.00         | 1,191.00   |
| <b>Comment:</b>              |                      |   |                                    |            |            |              |            |

**Point 79:**

| Pollutant  | Units of Measure     | Monitoring frequency required by licence | No. of times measured during month | Min. Value | Max Value  | 100 percentile Dry limit (Wet limit) | Exceedance (yes / no) * |
|--|----------------------|--|------------------------------------|------------|------------|--------------------------------------|-------------------------|
| Ammonia  | Milligrams per litre | Every 8 days                             | 4                                  | <0.0600    | <0.0600    | 5.0 (5.0)                            | no                      |
| Cyanide  | Milligrams per litre | Every 8 days                             | 4                                  | <0.0200    | <0.0200    | 0.30 (0.30)                          | no                      |
| Filtrable Iron   | Milligrams per litre | Every 8 days                             | 4                                  | <0.0100    | 0.0120     | 0.3 (0.3)                            | no                      |
| Oil and Grease   | Milligrams per litre | Every 8 days                             | 4                                  | <5.0000    | <5.0000    | 20 (50)                              | no                      |
| pH   |                      | Every 8 days                             | 4                                  | 8.10       | 8.20       | 6.5-9.0 (6.5-9.0)                    | no                      |
| Temperature  | Degrees Celcius      | Every 8 days                             | 4                                  | 27.50      | 28.50      | 40 (40)                              | no                      |
| Total Iron   | Milligrams per litre | Every 8 days                             | 4                                  | 0.0940     | 0.2750     | 3 (50)                               | no                      |
| Total Suspended Solids   | Milligrams per litre | Every 8 days                             | 4                                  | 3.60       | 18.00      | 50 (500)                             | no                      |
| Total Zinc   | Milligrams per litre | Every 8 days                             | 4                                  | <0.0500    | <0.0500    | 3 (3)                                | no                      |
| Volume of Liquids Discharged   | Kilolitres per day   | Daily                                    | Continuous*                        | 486,979.00 | 558,686.00 |                                      |                         |
| <b>Comment:*</b> Flow not measured for the period 9/11/15 to 13/11/15 due to sensor failure. |                      |  |                                    |            |            |                                      |                         |

**Point 80:**

| Pollutant                    | Units of Measure     | Monitoring frequency required by licence | No. of times measured during month | Min. Value | Max Value | 100 percentile Dry limit (Wet limit) | Exceedance (yes / no) * |
|------------------------------|----------------------|--|------------------------------------|------------|-----------|--------------------------------------|-------------------------|
| Cyanide                      | Milligrams per litre | 6/yr. Min 50 days apart.                 | 3                                  | <0.0200    | <0.0200   | 0.10 (0.00)                          | no                      |
| pH                           |                      | 6/yr. Min 50 days apart.                 | 3                                  | 7.90       | 8.40      | 6.5-9.0 (0.0-0.0)                    | no                      |
| Volume of Liquids Discharged | Kilolitres per day   | Daily                                    | Continuous                         | 2,776.00   | 5,670.00  |                                      |                         |
| <b>Comment:</b>              |                      |  |                                    |            |           |                                      |                         |

**Point 82:**

| Pollutant                    | Units of Measure     | Monitoring frequency required by licence | No. of times measured during month | Min. Value | Max Value | 100 percentile Dry limit (Wet limit) | Exceedance (yes / no) * |
|------------------------------|----------------------|--|------------------------------------|------------|-----------|--------------------------------------|-------------------------|
| Cyanide                      | Milligrams per litre | Quarterly grab sample. Min 80 days apart | 1                                  | <0.0200    | <0.0200   | 0.30 (0.00)                          | no                      |
| Volume of Liquids Discharged | Kilolitres per day   | Daily                                    | Continuous                         | 270.00     | 3,701.00  |                                      |                         |
| <b>Comment:</b>              |                      |  |                                    |            |           |                                      |                         |

**Point 83:**

| Pollutant                                      | Units of Measure     | Monitoring frequency required by licence | No. of times measured during month | Min. Value | Max Value | 100 percentile Dry limit (Wet limit) | Exceedance (yes / no) * |
|--|----------------------|--|------------------------------------|------------|-----------|--------------------------------------|-------------------------|
| Cyanide  | Milligrams per litre | Quarterly grab sample. Min 80 days apart | 0*                                 |            |           | 0.15 (0.00)                          | no                      |
| Volume of Liquids Discharged                   | Kilolitres per day   | Daily                                    | Continuous                         | 0.00       | 971.00    |                                      |                         |
| <b>Comment: * No flow at time of sampling.</b> |                      |  |                                    |            |           |                                      |                         |

**Point 85:**

| Pollutant                    | Units of Measure     | Monitoring frequency required by licence | No. of times measured during month | Min. Value | Max Value | 100 Percentile Limit | Exceedance (yes / no) * |
|------------------------------|----------------------|--|------------------------------------|------------|-----------|----------------------|-------------------------|
| Oil and Grease               | Milligrams per litre | 24/year. Min 15 days apart               | 2                                  | <5.0000    | <5.0000   | 20.0000              | no                      |
| pH                           |                      | 24/year. Min 15 days apart               | 2                                  | 8.10       | 8.10      | 6.5-9.0              | no                      |
| Temperature                  | Degrees Celcius      | 24/year. Min 15 days apart               | 2                                  | 21.50      | 22.50     | 35.00                | no                      |
| Total Suspended Solids       | Milligrams per litre | 24/year. Min 15 days apart               | 2                                  | 4.80       | 10.00     | 50.00                | no                      |
| Volume of Liquids Discharged | Kilolitres per day   | Daily                                    | Continuous                         | 35,439.00  | 38,181.00 |                      | no                      |
| <b>Comment:</b>              |                      |  |                                    |            |           |                      |                         |



**Point 87:**

| Pollutant                    | Units of Measure     | Monitoring frequency required by licence | No. of times measured during month | Min. Value | Max Value | 100 percentile Dry limit (Wet limit) | Exceedance (yes / no) * |
|------------------------------|----------------------|--|------------------------------------|------------|-----------|--------------------------------------|-------------------------|
| Ammonia                      | Milligrams per litre | Every 8 days                             | 4                                  | <0.0600    | <0.0600   | 10.0 (10.0)                          | no                      |
| Cyanide                      | Milligrams per litre | Every 8 days                             | 4                                  | <0.0200    | <0.0200   | 0.30 (0.30)                          | no                      |
| Filtrable Iron               | Milligrams per litre | Every 8 days                             | 4                                  | <0.0100    | <0.0100   | 1.5 (1.5)                            | no                      |
| Lead                         | Milligrams per litre | Every 8 days                             | 4                                  | <0.020     | <0.020    | 0.5 (0.5)                            | no                      |
| Mercury                      | Micrograms per litre | Every 8 days                             | 4                                  | <0.50      | <0.50     | 1.5 (1.5)                            | no                      |
| pH                           |                      | Every 8 days                             | 4                                  | 8.10       | 8.20      | 6.5-11.0 (6.5-11.0)                  | no                      |
| Temperature                  | Degrees Celcius      | Every 8 days                             | 4                                  | 20.50      | 22.50     | 40 (40)                              | no                      |
| Total Iron                   | Milligrams per litre | Every 8 days                             | 4                                  | 0.1090     | 0.2540    | 7 (100)                              | no                      |
| Total Suspended Solids       | Milligrams per litre | Every 8 days                             | 4                                  | 5.20       | 17.00     | 70 (500)                             | no                      |
| Volume of Liquids Discharged | Kilolitres per day   | Daily                                    | Continuous                         | 2,146.00   | 2,499.00  |                                      |                         |
| <b>Comment:</b>              |                      |  |                                    |            |           |                                      |                         |

**Point 88:**

| Pollutant  | Units of Measure     | Monitoring frequency required by licence | No. of times measured during month | Min. Value | Max Value  | 100 percentile Dry limit (Wet limit) | Exceedance (yes / no) * |
|--|----------------------|--|------------------------------------|------------|------------|--------------------------------------|-------------------------|
| Ammonia  | Milligrams per litre | Every 8 days                             | 5                                  | <0.0600    | <0.0600    | 7.5 (7.5)                            | no                      |
| Ammonia  | Tonnes per day       | Every 8 days                             | 5                                  | 0.0        | 0.0        | 1.200                                | no                      |
| Cyanide  | Kilograms per day    | Every 8 days                             | 5                                  | 0.0        | 0.0        | 27.00                                | no                      |
| Cyanide  | Milligrams per litre | Every 8 days                             | 5                                  | <0.0200    | <0.0200    | 0.30 (0.30)                          | no                      |
| Oil and Grease   | Milligrams per litre | Every 8 days                             | 5                                  | <5.0000    | <5.0000    | 20 (50)                              | no                      |
| Oil and Grease   | Tonnes per day       | Every 8 days                             | 5                                  | 0.0        | 0.0        | 2.50                                 | no                      |
| pH   |                      | Every 8 days                             | 5                                  | 8.10       | 8.20       | 6.5-9.0 (6.5-9.0)                    | no                      |
| Phenol   | Kilograms per day    | Every 8 days                             | 5                                  | 0.0        | 0.0        | 35.00                                | no                      |
| Phenol   | Milligrams per litre | Every 8 days                             | 5                                  | <0.2000    | <0.2000    | 0.45 (0.45)                          | no                      |
| Temperature  | Degrees Celcius      | Every 8 days                             | 5                                  | 20.50      | 26.50      | 40 (40)                              | no                      |
| Total Suspended Solids   | Milligrams per litre | Every 8 days                             | 5                                  | <3.00      | 19.00      | 100 (200)                            | no                      |
| Total Suspended Solids   | Tonnes per day       | Every 8 days                             | 5                                  | 0.24       | 3.1        | 12.00                                | no                      |
| Total Zinc   | Kilograms per day    | Every 8 days                             | 5                                  | 0.0        | 83.24      | 35.00                                | yes                     |
| Total Zinc   | Milligrams per litre | Every 8 days                             | 5                                  | <0.0500    | 0.5170     | 3 (3)                                | no                      |
| Volume of Liquids Discharged   | Kilolitres per day   | Daily                                    | Continuous                         | 156,100.00 | 216,266.00 |                                      |                         |
| <b>Comment: * One of the five samples was above the licence limit. Sample date 25.11.15.</b> |                      |  |                                    |            |            |                                      |                         |

**Point 89:**

| Pollutant                    | Units of Measure     | Monitoring frequency required by licence | No. of times measured during month | Min. Value | Max Value | 100 percentile Dry limit (Wet limit) | Exceedance (yes / no) * |
|------------------------------|----------------------|--|------------------------------------|------------|-----------|--------------------------------------|-------------------------|
| Ammonia                      | Milligrams per litre | Every 8 days                             | 4                                  | <0.0600    | <0.0600   | 7.0 (7.0)                            | no                      |
| Copper                       | Milligrams per litre | Every 8 days                             | 4                                  | <0.010     | <0.010    | 1.000                                | no                      |
| Cyanide                      | Milligrams per litre | Every 8 days                             | 4                                  | <0.0200    | <0.0200   | 0.20 (0.20)                          | no                      |
| Filtrable Iron               | Milligrams per litre | Every 8 days                             | 4                                  | <0.0100    | 0.0310    | 0.5 (0.5)                            | no                      |
| Fluoride                     | Milligrams per litre | Every 8 days                             | 4                                  | 3.90       | 5.50      | 50 (50)                              | no                      |
| pH                           |                      | Every 8 days                             | 4                                  | 8.00       | 8.10      | 6.5-9.0 (6.5-9.0)                    | no                      |
| Temperature                  | Degrees Celcius      | Every 8 days                             | 4                                  | 22.50      | 24.50     | 45 (45)                              | no                      |
| Total Iron                   | Milligrams per litre | Every 8 days                             | 4                                  | 0.3610     | 0.8090    | 7 (20)                               | no                      |
| Total Suspended Solids       | Milligrams per litre | Every 8 days                             | 4                                  | 3.20       | 6.80      | 100 (200)                            | no                      |
| Total Zinc                   | Milligrams per litre | Every 8 days                             | 4                                  | <0.0500    | 0.1540    | 3 (3)                                | no                      |
| Volume of Liquids Discharged | Kilolitres per day   | Daily                                    | Continuous                         | 3,541.00   | 7,730.00  |                                      |                         |
| <b>Comment:</b>              |                      |  |                                    |            |           |                                      |                         |