



Bluescope Steel (AIS) Pty Ltd  
ABN 19 000 019625  
Port Kembla Steelworks  
Five Islands Road  
Port Kembla 2505  
PO Box 1854  
Wollongong NSW 2500

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

[Link to Environment Protection Licence EPL6092](#)

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

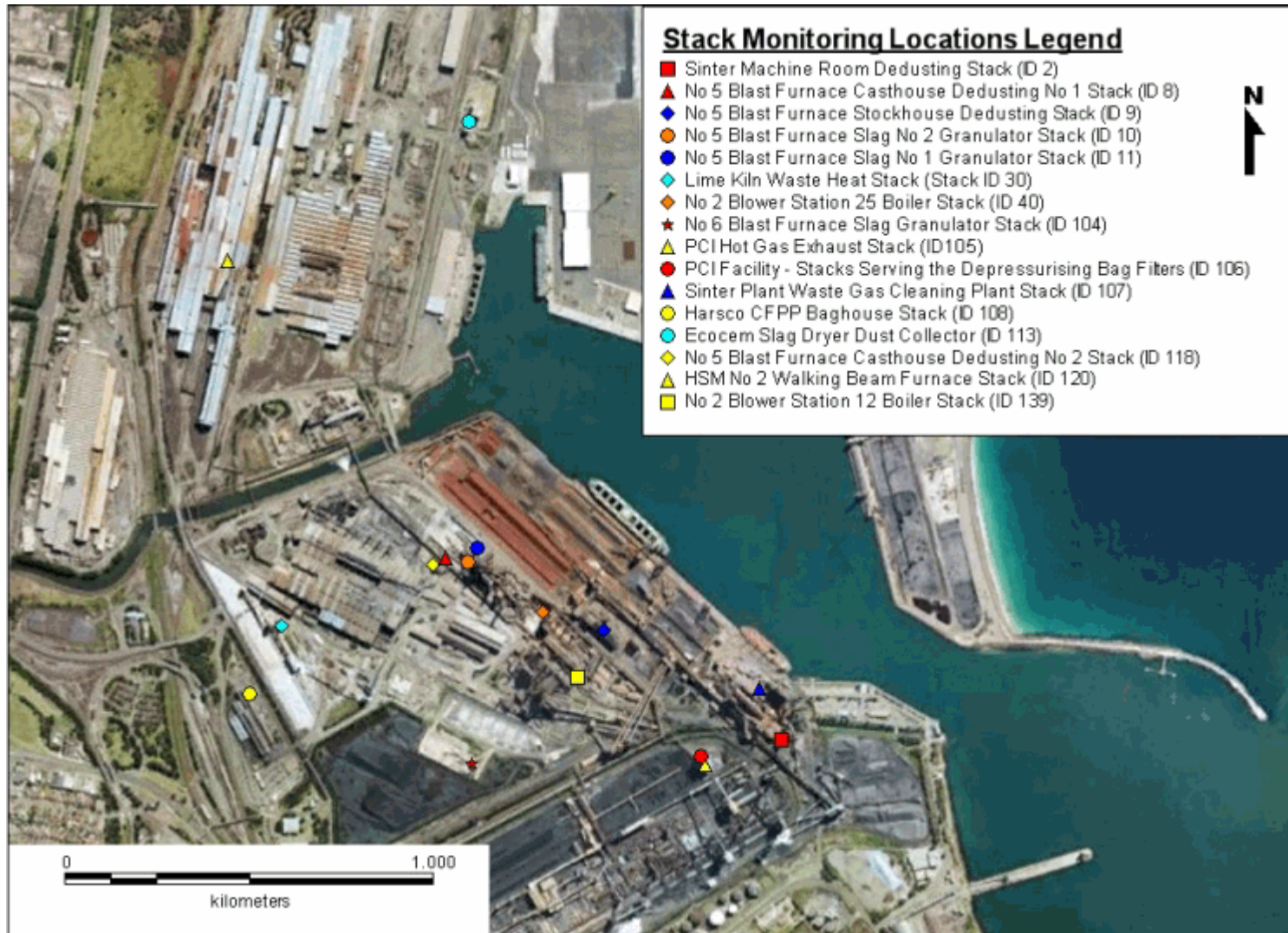
for

**1 Jul 2017 to 31 Jul 2017**

Monthly (July 2017) Report Published: 11, October, 2017

## Stack Air Monitoring Requirements

EPL6092 Conditions L2.4/M2.2/M2.3/M8.2/E1.4





**Point 107:**

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) *
Arsenic	Milligrams per cubic metre	Quarterly in duplicate	2	0.00046	0.00052		no
Cadmium	Milligrams per cubic metre	Quarterly in duplicate	2	0.00046	0.00047		no
Carbon Dioxide	Percent	Quarterly in duplicate	32	5.3	8		no
Chromium (hexavalent)	Milligrams per cubic metre	Yearly in duplicate	2	<0.00067	0.00076		no
Dry Gas Density	Kilograms per cubic metre	Quarterly in duplicate	38	1.32	1.33		no
Fine Particulates	Milligrams per cubic metre	Quarterly in duplicate	2	1.7	3.3		no
Hydrogen Chloride	Milligrams per cubic metre	Quarterly in duplicate	2	20	26		no
Hydrogen Fluoride	Milligrams per cubic metre	Quarterly in duplicate	2	0.82	1.1		no
Lead	Milligrams per cubic metre	Quarterly in duplicate	2	0.013	0.014		no
Manganese	Milligrams per cubic metre	Quarterly in duplicate	2	0.0031	0.0038		no
Moisture	Percent	Quarterly in duplicate	38	7.4	12		no
Molecular Weight of stack gases	grams per gram mole	Quarterly in duplicate	38	29.5	29.7		no
Nickel	Milligrams per cubic metre	Quarterly in duplicate	2	0.00057	0.00079		no
Nitrogen Oxides	Milligrams per cubic metre	Quarterly	32	260	338	2,000.00	no
Oxygen (O2)	Percent	Quarterly in duplicate	32	15	17		no
Solid Particles	Milligrams per cubic metre	Quarterly in duplicate	2	9.2	13	20.00	no
Sulfuric acid mist and sulphur trioxide (as SO3)	Milligrams per cubic metre	Quarterly in duplicate	2	2.2	2.5	100.00	no
Sulphur Dioxide - UV	Milligrams per cubic metre	Quarterly	32	39	255	1,000.00	no
Temperature	Degrees Celcius	Quarterly in duplicate	38	127	138		no
Velocity	Metres per second	Quarterly in duplicate	38	14	16		no
Volumetric flowrate	Cubic metres per second	Quarterly in duplicate	38	270	330		no



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Comment:



**Point 2:**

Pollutant	Units of Measure	Monitoring frequency required by licence	No. of times measured during month	Min. Value	Mean Value	Median Value	Max Value
Opacity	%	Continuous	Continuous	0	3.8	3.9	34.6
<b>Comment:</b> Elevated results associated with Plant shut down or sensor calibration.							

**Point 107:**

Pollutant	Units of Measure	Monitoring frequency required by licence	No. of times measured during month	Min. Value	Mean Value	Median Value	Max Value
Total Solid Particles	Milligrams per cubic metre	Continuous	Continuous	0.8	4	3.6	40.2
<b>Comment:</b> Elevated results associated with Plant restart							



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## **Ambient Air Monitoring Requirements**

EPL6092 Condition M2.2/M2.3/O4.14,O4.15 (Cont.)



**O4.14**

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>				

**O4.15**

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



**Point 141: Receiver 1 (located south of licensed site)**

Pollutant	Units of Measure	Monitoring frequency required by licence	No. of times measured during month	Min. Value	Mean Value	Median Value	Max. Value
Fine Particulates	Micrograms per cubic metre	Continuous	Continuous	5.3	11.8	10.8	30.8
Benzene	Parts per billion	Every 6 days	6	0.041	0.094	0.0925	0.14
Iron	Micrograms per cubic metre	Every 6 days	6	0.27	0.677	0.60	1.3
Lead	Micrograms per cubic metre	Every 6 days	6	<0.053	<0.053	0.03	<0.055
Particulates - Deposited Matter	Grams per square metre per month	Monthly	1	0.73	0.73	0.73	0.73
Polycyclic aromatic hydrocarbons	Nanograms per cubic metre	24 hour period every 6 days.	6	0.59	0.618	0.60	0.67
Total suspended particles	Micrograms per cubic metre	Every 6 days	6	15	23	18.50	47
Type 1 and Type 2 substances in aggregate	Micrograms per cubic metre	Quarterly	1	0.12	0.12	0.12	0.12
Zinc	Micrograms per cubic metre	Every 6 days	6	<0.11	<0.11	0.06	0.26
<b>Comment:</b>							





**Point 152: Receiver 2 (located north of licensed site)**

Pollutant	Units of Measure	Monitoring frequency required by licence	No. of times measured during month	Min. Value	Mean Value	Median Value	Max. Value
Fine Particulates	Micrograms per cubic metre	Continuous	Continuous	8.1	14.9	14.5	29.1
Benzene	Parts per billion	Every 6 days	6	0.047	0.1612	0.1600	0.26
Iron	Micrograms per cubic metre	Every 6 days	6	1.3	2.033	1.85	3.7
Lead	Micrograms per cubic metre	Every 6 days	6	<0.053	<0.053	0.03	<0.055
Particulates - Deposited Matter	Grams per square metre per month	Monthly	1	0.58	0.58	0.58	0.58
Polycyclic aromatic hydrocarbons	Nanograms per cubic metre	24 hour period every 6 days.	6	0.71	1.228	1.10	1.8
Total suspended particles	Micrograms per cubic metre	Every 6 days	6	23	31.833	31.50	43
Type 1 and Type 2 substances in aggregate	Micrograms per cubic metre	Quarterly	1	0.31	0.31	0.31	0.31
Zinc	Micrograms per cubic metre	Every 6 days	6	<0.11	<0.11	0.09	0.2
<b>Comment:</b>							

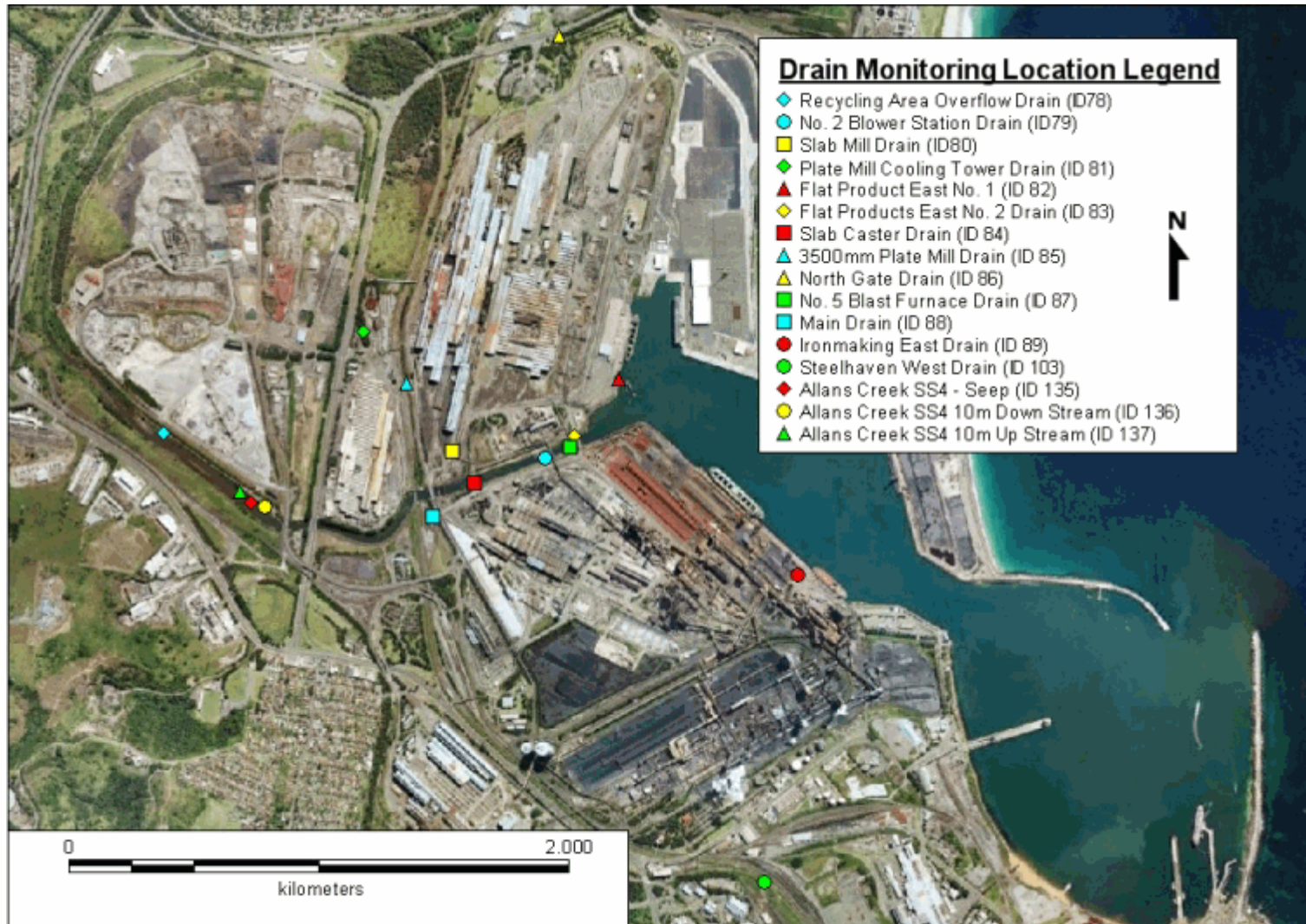


**Point 153: Receiver 3 (located west of licensed site)**

Pollutant	Units of Measure	Monitoring frequency required by licence	No. of times measured during month	Min. Value	Mean Value	Median Value	Max. Value
Iron	Micrograms per cubic metre	Every 6 days	6	0.71	2.085	1.95	3.7
Lead	Micrograms per cubic metre	Every 6 days	6	<0.053	<0.053	0.03	0.088
Total suspended particles	Micrograms per cubic metre	Every 6 days	6	18	29.5	28.00	46
Type 1 and Type 2 substances in aggregate	Micrograms per cubic metre	Quarterly	1	0.004	0.004	0.004	0.004
Zinc	Micrograms per cubic metre	Every 6 days	6	<0.11	<0.11	0.06	0.2
<b>Comment:</b>							

## Water and/or Land Monitoring Requirements

EPL6092 Condition M2.5/M2.6/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
pH		Daily during any discharge which is not due to Wet Weather Conditions	0 *				
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	0	0.00	0
<b>Comment:</b> * No flow at time of sampling.							



**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	5	<0.06	<0.06	5.0 (5.0)	no
Cyanide	Milligrams per litre	Every 8 days	5	<0.02	<0.02	0.30 (0.30)	no
Filtrable Iron	Milligrams per litre	Every 8 days	5	<0.01	<0.01	0.3 (0.3)	no
Oil and Grease	Milligrams per litre	Every 8 days	5	<5	<5	20 (50)	no
pH		Every 8 days	5	8.1	8.2	6.5-9.0 (6.5-9.0)	no
Temperature	Degrees Celcius	Every 8 days	5	22	25	40 (40)	no
Total Iron	Milligrams per litre	Every 8 days	5	0.11	0.16	3 (50)	no
Total Suspended Solids	Milligrams per litre	Every 8 days	5	<3	18	50 (500)	no
Total Zinc	Milligrams per litre	Every 8 days	5	<0.05	<0.05	3 (3)	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	515455	586243		
<b>Comment:</b>							

**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.	1	<0.02	<0.02	0.20 (0.00)	no
pH		6/yr. Min 50 days apart.	1	7.6	7.6	6.5-9.0 (0.0-0.0)	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	277	1537		
<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	0*			0.30 (0.00)	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	0	439		
<b>Comment: * No flow at time of sampling.</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	67		
<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	<5	20.0000	no
pH		24/year. Min 15 days apart	2	8.2	8.2	6.5-9.0	no
Temperature	Degrees Celcius	24/year. Min 15 days apart	2	19	19	35.00	no
Total Suspended Solids	Milligrams per litre	24/year. Min 15 days apart	2	3	14	50.00	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	33085	34391		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	5	<0.06	<0.06	10.0 (10.0)	no
Cyanide	Milligrams per litre	Every 8 days	5	<0.02	<0.02	0.30 (0.30)	no
Filtrable Iron	Milligrams per litre	Every 8 days	5	<0.01	<0.01	1.5 (1.5)	no
Lead	Milligrams per litre	Every 8 days	5	<0.02	<0.02	0.5 (0.5)	no
Mercury	Micrograms per litre	Every 8 days	5	<0.5	<0.5	1.5 (1.5)	no
pH		Every 8 days	5	8	8.3	6.5-11.0 (6.5-11.0)	no
Temperature	Degrees Celcius	Every 8 days	5	17	18	40 (40)	no
Total Iron	Milligrams per litre	Every 8 days	5	0.16	0.27	7 (100)	no
Total Suspended Solids	Milligrams per litre	Every 8 days	5	3	17	70 (500)	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	2010	2134		
<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	24 samples per year	4	<0.06	<0.06	7.5 (7.5)	no
Cyanide	Milligrams per litre	24 samples per year	4	<0.02	<0.02	0.30 (0.30)	no
Oil and Grease	Milligrams per litre	24 samples per year	4	<5	<5	20 (50)	no
pH		24 samples per year	4	8.1	8.2	6.5-9.0 (6.5-9.0)	no
Phenol	Milligrams per litre	Nil	1	<0.2	<0.2	0.45 (0.45)	no
Temperature	Degrees Celcius	24 samples per year	4	15	17	40 (40)	no
Total Suspended Solids	Milligrams per litre	24 samples per year	4	3	18	100 (200)	no
Total Zinc	Milligrams per litre	24 samples per year	4	<0.05	<0.05	3 (3)	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	82873	85223		
<b>Comment:</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	Daily during any discharge	0*			7.0 (7.0)	no
Copper	Milligrams per litre	Daily during any discharge	0*			1.000	no
Cyanide	Milligrams per litre	Daily during any discharge	0*			0.20 (0.20)	no
Filtrable Iron	Milligrams per litre	Daily during any discharge	0*			0.5 (0.5)	no
Fluoride	Milligrams per litre	Daily during any discharge	0*			50 (50)	no
pH		Daily during any discharge	0*			6.5-9.0 (6.5-9.0)	no
Temperature	Degrees Celcius	Daily during any discharge	0*			45 (45)	no
Total Iron	Milligrams per litre	Daily during any discharge	0*			7 (20)	no
Total Suspended Solids	Milligrams per litre	Daily during any discharge	0*			100 (200)	no
Total Zinc	Milligrams per litre	Daily during any discharge	0*			3 (3)	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	0	0		
<b>Comment: Zero discharge</b>							