



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

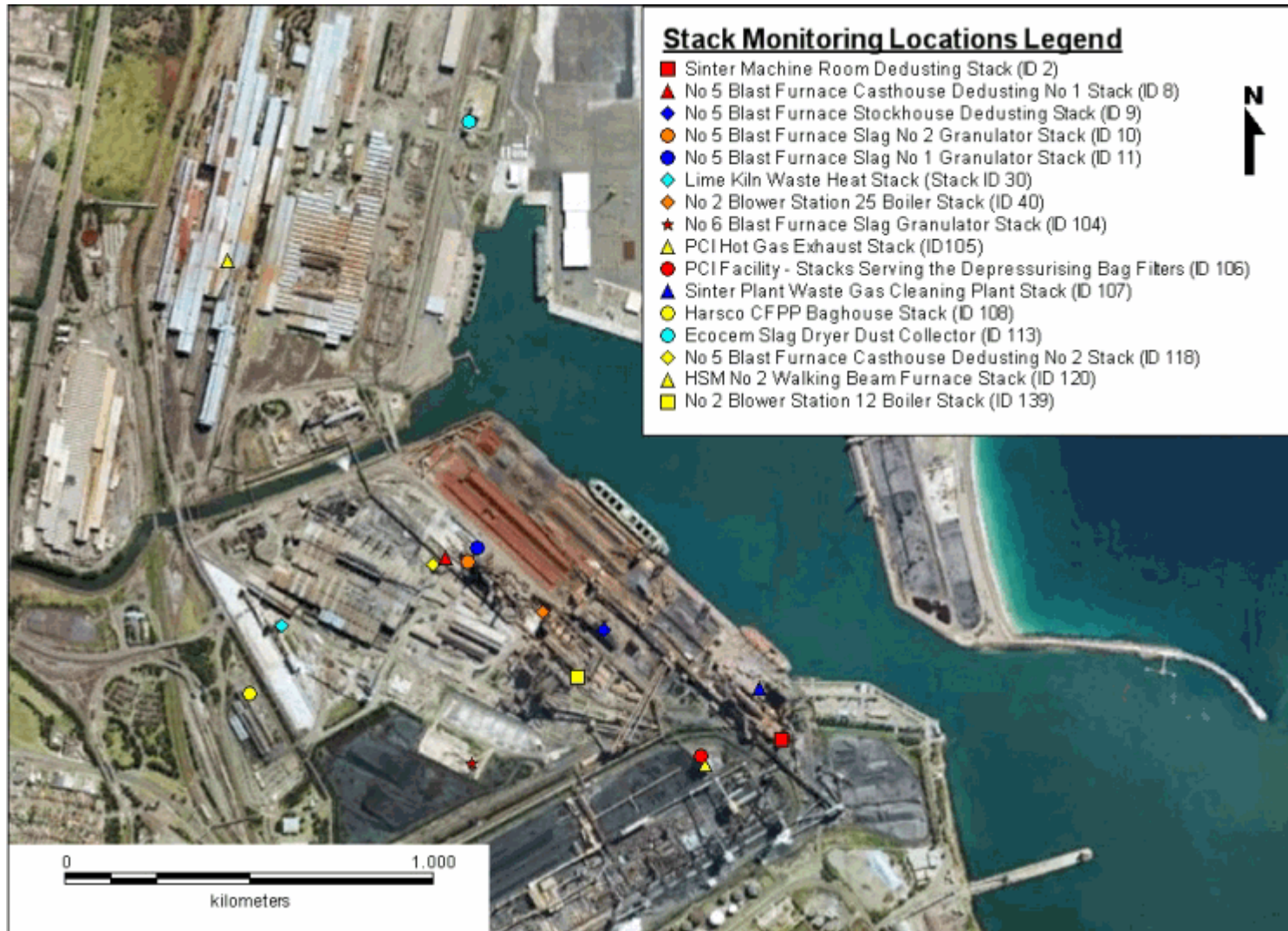
for

1 Oct 2019 to 31 Oct 2019

Monthly (October 2019) Report Published: 20, December, 2019

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	0.00055	0.00062		no
Cadmium	Milligrams per cubic metre	Quarterly in duplicate	2	0.0014	0.0014		no
Carbon Dioxide	Percent	Quarterly in duplicate	24	5.5	6.3		no
Dioxins & Furans (15.7% Oxygen correction)	Nanograms per cubic metre	Quarterly in duplicate	2	0.006	0.0067	0.300000	no
Dry Gas Density	Kilograms per cubic metre	Quarterly in duplicate	36	1.33	1.33		no
Fine Particulates	Milligrams per cubic metre	Quarterly in duplicate	2	2.3	3.1		no
Hydrogen Chloride	Milligrams per cubic metre	Quarterly in duplicate	2	30	34		no
Hydrogen Fluoride	Milligrams per cubic metre	Quarterly in duplicate	2	1.8	2.1		no
Lead	Milligrams per cubic metre	Quarterly in duplicate	2	0.058	0.059		no
Manganese	Milligrams per cubic metre	Quarterly in duplicate	2	0.0027	0.0027		no
Moisture	Percent	Quarterly in duplicate	36	8.8	11		no
Molecular Weight of stack gases	grams per gram mole	Quarterly in duplicate	36	29.7	29.9		no
Nickel	Milligrams per cubic metre	Quarterly in duplicate	2	0.00035	0.00037		no
Nitrogen Oxides	Milligrams per cubic metre	Quarterly	24	241	299	2,000.00	no
Oxygen (O2)	Percent	Quarterly in duplicate	24	16	17		no
Solid Particles	Milligrams per cubic metre	Quarterly in duplicate	2	2.4	3.7	20.00	no
Sulfuric acid mist and sulphur trioxide (as SO3)	Milligrams per cubic metre	Quarterly in duplicate	2	2.4	2.9	100.00	no
Sulphur Dioxide - UV	Milligrams per cubic metre	Quarterly	24	65	90	1,000.00	no
Temperature	Degrees Celcius	Quarterly in duplicate	36	135	140		no
Velocity	Metres per second	Quarterly in duplicate	36	13	15		no
Volumetric flowrate	Cubic metres per second	Quarterly in duplicate	36	260	300		no
Comment:							



Point 2:

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) *
Solid Particles	Milligrams per cubic metre	Quarterly	1	4.8	4.8	50.00	no
Comment:							

Point 113:

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) *
Nitrogen Oxides (18% Oxygen correction)	Milligrams per cubic metre	Yearly	3	13	14	80.00	no
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	1.8	4.2	4.1	23.9
Comment:							

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	1.0	7.0	6.4	19.1
Comment:							



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Ambient Air Monitoring Requirements

EPL6092 Condition M2.2/M2.3/O4.13,O4.14 (Cont.)



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
Comment:				

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 4	Monthly	0	1	no
Comment:				



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
Benzene	Parts per billion	Every 6 days	6	0.025	0.1717	0.1395	0.37
Fine Particulates	Micrograms per cubic metre	Continuous	Continuous	7	28	20	83
Iron	Micrograms per cubic metre	Every 6 days	6	0.74	3.907	2.40	8.2
Lead	Micrograms per cubic metre	Every 6 days	6	<0.054	<0.054	0.03	<0.058
Polycyclic aromatic hydrocarbons	Nanograms per cubic metre	24 hour period every 6 days.	6	0.6	3.652	0.80	10
Total suspended particles	Micrograms per cubic metre	Every 6 days	6	22	94.833	66.50	190
Type 1 and Type 2 substances in aggregate	Micrograms per cubic metre	Quarterly	1	0.015	0.015	0.02	0.015
Zinc	Micrograms per cubic metre	Every 6 days	6	<0.11	<0.11	0.06	0.19
Comment: Particulates - Deposited Matter result for this location is not available due to the sample bottle being stolen at some time during the month.							

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

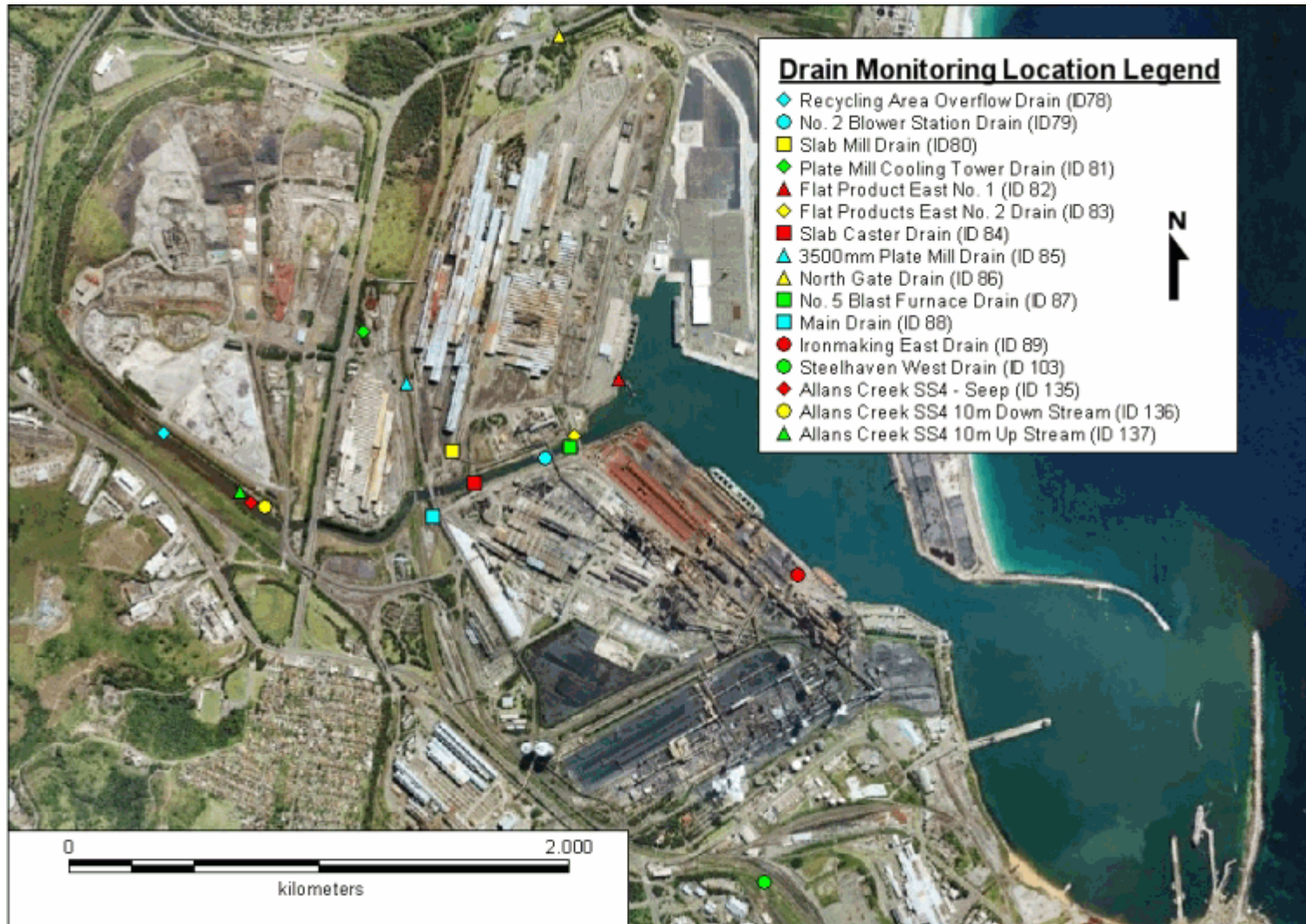
Pollutant	Units of Measure	Monitoring frequency required by licence	No. of times measured during month	Min. Value	Mean Value	Median Value	Max. Value
Benzene	Parts per billion	Every 6 days	6	0.027	0.085	0.0730	0.18
Fine Particulates	Micrograms per cubic metre	Continuous	Continuous	16	41	36	64
Iron	Micrograms per cubic metre	Every 6 days	6	1.1	2.967	2.55	5.6
Lead	Micrograms per cubic metre	Every 6 days	6	<0.054	<0.054	0.03	<0.058
Particulates - Deposited Matter	Grams per square metre per month	Monthly	1	1.2	1.2	1.20	1.2
Polycyclic aromatic hydrocarbons	Nanograms per cubic metre	24 hour period every 6 days.	6	0.6	1.283	1.20	2.2
Total suspended particles	Micrograms per cubic metre	Every 6 days	6	35	90.333	82.00	160
Type 1 and Type 2 substances in aggregate	Micrograms per cubic metre	Quarterly	1	0.084	0.084	0.08	0.084
Zinc	Micrograms per cubic metre	Every 6 days	6	<0.11	<0.11	0.06	0.3
Comment:							

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	1.2	3.15	3.20	4.3
Lead	Micrograms per cubic metre	Every 6 days	6	<0.054	<0.054	0.03	<0.058
Total suspended particles	Micrograms per cubic metre	Every 6 days	6	46	112.167	110.00	160
Type 1 and Type 2 substances in aggregate	Micrograms per cubic metre	Quarterly	1	0.1	0.1	0.10	0.1
Zinc	Micrograms per cubic metre	Every 6 days	6	<0.11	0.146	0.17	0.19
Comment:							

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
Comment:							

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	8	<0.06	0.28	5.0 (5.0)	no
Cyanide	Milligrams per litre	Every 8 days	9	<0.02	<0.02	0.30 (0.30)	no
Filtrable Iron	Milligrams per litre	Every 8 days	8	<0.01	0.01	0.3 (0.3)	no
Oil and Grease	Milligrams per litre	Every 8 days	8	<5	<5	20 (50)	no
pH		Every 8 days	8	7.8	8.3	6.5-9.0 (6.5-9.0)	no
Temperature	Degrees Celcius	Every 8 days	8	23	28	40 (40)	no
Total Iron	Milligrams per litre	Every 8 days	8	0.09	0.44	3 (50)	no
Total Suspended Solids	Milligrams per litre	Every 8 days	8	3	13	50 (500)	no
Total Zinc	Milligrams per litre	Every 8 days	8	<0.05	<0.05	3 (3)	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	538976	759004		
Comment:							



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) *
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	408	2065		
Comment:							

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	<0.02	<0.02	0.30 (0.00)	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	0	663		
Comment:							

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	167		
Comment:							



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	1	<5	<5	20.0000	no
pH		24/year. Min 15 days apart	1	8.2	8.2	6.5-9.0	no
Temperature	Degrees Celcius	24/year. Min 15 days apart	1	20	20	35.00	no
Total Suspended Solids	Milligrams per litre	24/year. Min 15 days apart	1	4	4	50.00	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	28869	37525		no
Comment:							

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	3	<0.06	<0.06	10.0 (10.0)	no
Cyanide	Milligrams per litre	Every 8 days	3	<0.02	<0.02	0.30 (0.30)	no
Filtrable Iron	Milligrams per litre	Every 8 days	3	<0.01	<0.01	1.5 (1.5)	no
Lead	Milligrams per litre	Every 8 days	3	<0.02	<0.02	0.5 (0.5)	no
Mercury	Micrograms per litre	Every 8 days	3	<0.5	<0.5	1.5 (1.5)	no
pH		Every 8 days	3	8.2	8.2	6.5-11.0 (6.5-11.0)	no
Temperature	Degrees Celcius	Every 8 days	3	19	20	40 (40)	no
Total Iron	Milligrams per litre	Every 8 days	3	0.11	0.14	7 (100)	no
Total Suspended Solids	Milligrams per litre	Every 8 days	3	4	14	70 (500)	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	2065	2352		
Comment:							



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	1	<0.06	<0.06	7.5 (7.5)	no
Cyanide	Milligrams per litre	Every 8 days	1	<0.02	<0.02	0.30 (0.30)	no
Oil and Grease	Milligrams per litre	Every 8 days	1	<5	<5	20 (50)	no
pH		Every 8 days	1	8.2	8.2	6.5-9.0 (6.5-9.0)	no
Phenol	Milligrams per litre	Every 8 days	1	<0.2	<0.2	0.45 (0.45)	no
Temperature	Degrees Celcius	Every 8 days	1	20	20	40 (40)	no
Total Suspended Solids	Milligrams per litre	Every 8 days	1	5	5	100 (200)	no
Total Zinc	Milligrams per litre	Every 8 days	1	<0.05	<0.05	3 (3)	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	26603	35206		

Comment:

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	Special frequency 11	0			7.0 (7.0)	no
Copper	Milligrams per litre	Special frequency 11	0			1.000	no
Cyanide	Milligrams per litre	Special frequency 11	0			0.20 (0.20)	no
Filtrable Iron	Milligrams per litre	Special frequency 11	0			0.5 (0.5)	no
Fluoride	Milligrams per litre	Special frequency 11	0			50 (50)	no
pH		Special frequency 11	0			6.5-9.0 (6.5-9.0)	no
Temperature	Degrees Celcius	Special frequency 11	0			45 (45)	no
Total Iron	Milligrams per litre	Special frequency 11	0			7 (20)	no
Total Suspended Solids	Milligrams per litre	Special frequency 11	0			100 (200)	no
Total Zinc	Milligrams per litre	Special frequency 11	0			3 (3)	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	0	0		

Comment: