



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

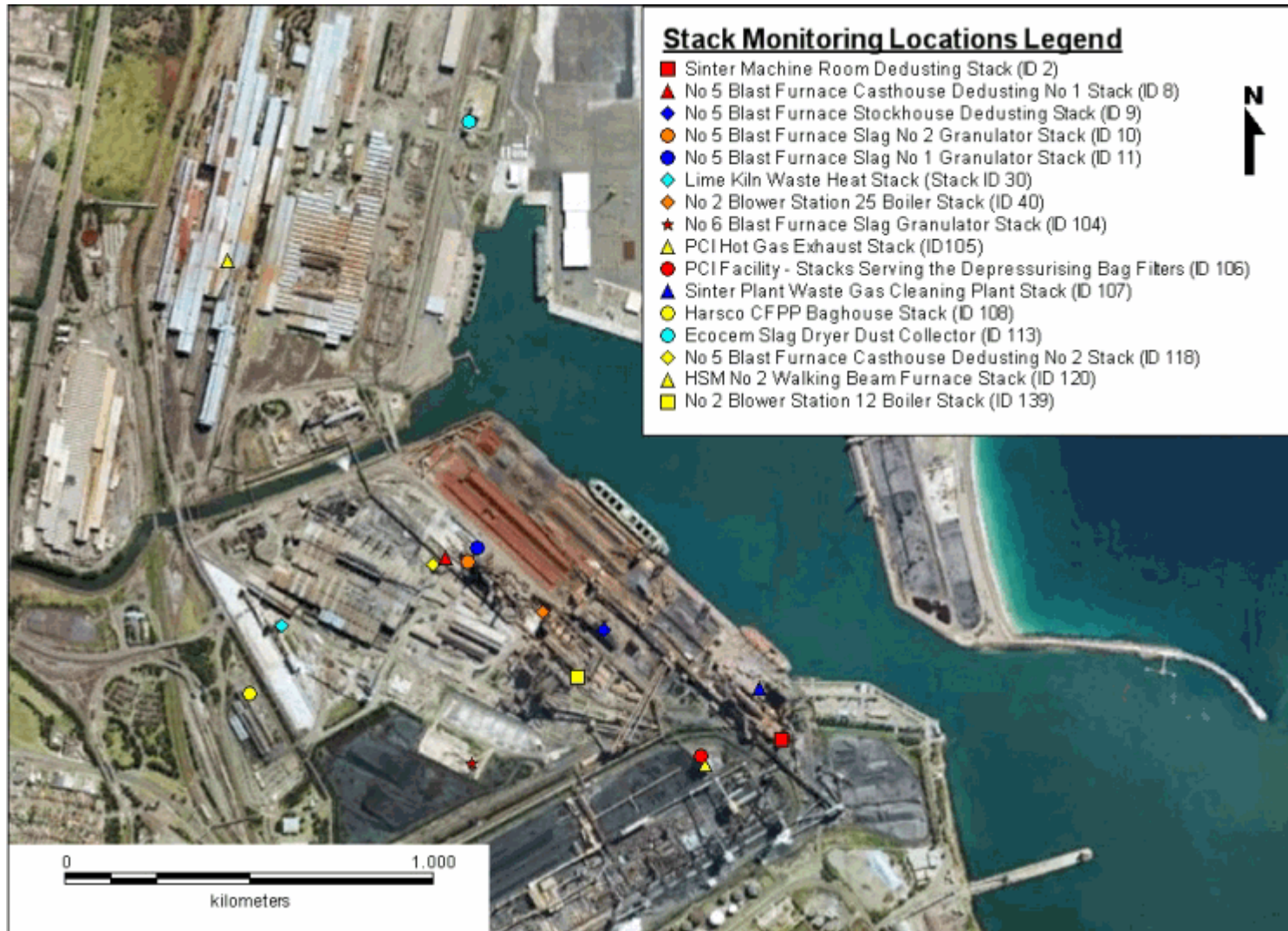
for

1 May 2019 to 31 May 2019

Monthly (May 2019) Report Published: 2, July, 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	0.00034	0.00034		no
Cadmium	Milligrams per cubic metre	Quarterly in duplicate	2	0.00044	0.00044		no
Carbon Dioxide	Percent	Quarterly in duplicate	45	2.8	6.6		no
Dioxins & Furans (15.7% Oxygen correction)	Nanograms per cubic metre	Quarterly in duplicate	2	0.0063	0.008	0.300000	no
Dry Gas Density	Kilograms per cubic metre	Quarterly in duplicate	56	1.32	1.35		no
Fine Particulates	Milligrams per cubic metre	Quarterly in duplicate	1	2.8	2.8		no
Hydrogen Chloride	Milligrams per cubic metre	Quarterly in duplicate	2	31	31		no
Hydrogen Fluoride	Milligrams per cubic metre	Quarterly in duplicate	2	3.2	3.2		no
Lead	Milligrams per cubic metre	Quarterly in duplicate	2	0.022	0.023		no
Manganese	Milligrams per cubic metre	Quarterly in duplicate	2	0.0026	0.0088		no
Moisture	Percent	Quarterly in duplicate	56	8.1	11		no
Molecular Weight of stack gases	grams per gram mole	Quarterly in duplicate	56	29.6	30.3		no
Nickel	Milligrams per cubic metre	Quarterly in duplicate	2	0.0005	0.00056		no
Nitrogen Oxides	Milligrams per cubic metre	Quarterly	45	114	335	2,000.00	no
Oxygen (O2)	Percent	Quarterly in duplicate	45	16	19		no
Solid Particles	Milligrams per cubic metre	Quarterly in duplicate	2	3.8	4.8	20.00	no
Sulfuric acid mist and sulphur trioxide (as SO3)	Milligrams per cubic metre	Quarterly in duplicate	2	2.1	2.4	100.00	no
Sulphur Dioxide - UV	Milligrams per cubic metre	Quarterly	45	49	226	1,000.00	no
Temperature	Degrees Celcius	Quarterly in duplicate	56	135	137		no
Velocity	Metres per second	Quarterly in duplicate	56	14	16		no
Volumetric flowrate	Cubic metres per second	Quarterly in duplicate	56	280	330		no



Comment:

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	8	1.29	1.29		no
Hydrogen Sulphide	Grams per second	Quarterly	1	0.25	0.25	1.20	no
Moisture	Percent	Quarterly	8	4.7	9.5		no
Molecular Weight of stack gases	grams per gram mole	Quarterly	8	28.9	28.9		no
Temperature	Degrees Celcius	Quarterly	8	32	45		no
Velocity	Metres per second	Quarterly	8	2.1	3.5		no
Volumetric flowrate	Cubic metres per second	Quarterly	9	23	36		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	0	1.2	0.6	22.3
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	0	4.7	4.5	40.1
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	5	0.013	0.0488	0.0530	0.078
Fine Particulates	Micrograms per cubic metre	Continuous	Continuous	6	15	13	43
Iron	Micrograms per cubic metre	Every 6 days	5	0.57	0.82	0.83	1.1
Lead	Micrograms per cubic metre	Every 6 days	5	<0.054	<0.054	0.03	<0.055
Particulates - Deposited Matter	Grams per square metre per month	Monthly	1	3	3	3.00	3
Polycyclic aromatic hydrocarbons	Nanograms per cubic metre	24 hour period every 6 days.	5	0.6	0.616	0.60	0.67
Total suspended particles	Micrograms per cubic metre	Every 6 days	5	21	24.4	23.00	29
Zinc	Micrograms per cubic metre	Every 6 days	5	<0.11	0.134	0.06	0.45
Comment:							



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

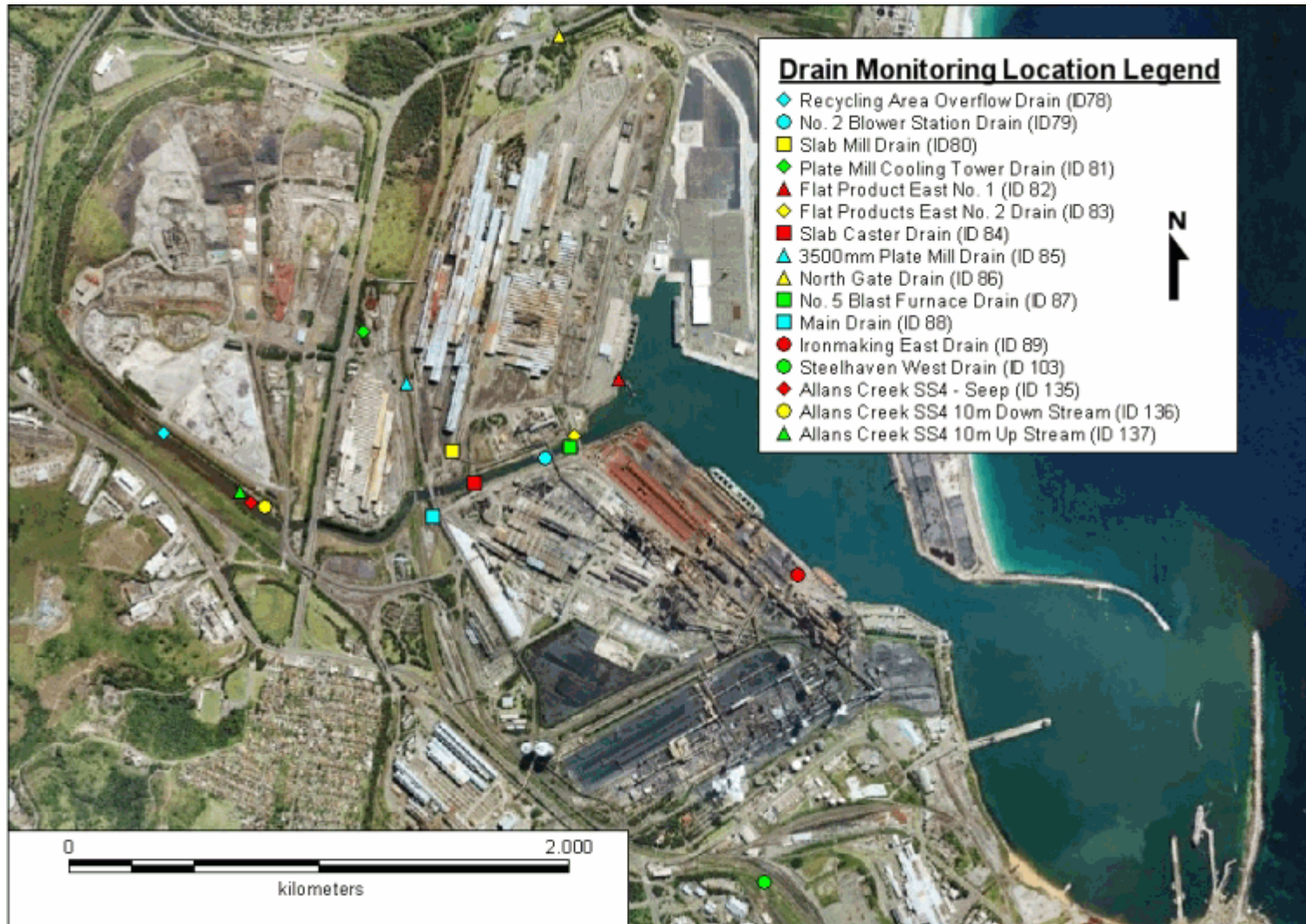
Pollutant	Units of Measure	Monitoring frequency required by licence	No. of times measured during month	Min. Value	Mean Value	Median Value	Max. Value
Benzene	Parts per billion	Every 6 days	5	0.017	0.085	0.0680	0.15
Fine Particulates	Micrograms per cubic metre	Continuous	Continuous	9	21	18	40
Iron	Micrograms per cubic metre	Every 6 days	5	1.7	3.02	2.90	5.1
Lead	Micrograms per cubic metre	Every 6 days	5	<0.054	<0.054	0.03	<0.055
Particulates - Deposited Matter	Grams per square metre per month	Monthly	1	1.1	1.1	1.10	1.1
Polycyclic aromatic hydrocarbons	Nanograms per cubic metre	24 hour period every 6 days.	5	0.68	1.434	0.86	2.9
Total suspended particles	Micrograms per cubic metre	Every 6 days	5	28	44	40.00	70
Zinc	Micrograms per cubic metre	Every 6 days	5	0.12	0.192	0.15	0.37
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	5	0.63	2.066	2.10	3.5
Lead	Micrograms per cubic metre	Every 6 days	5	<0.054	<0.054	0.03	<0.055
Total suspended particles	Micrograms per cubic metre	Every 6 days	5	20	43.2	41.00	64
Zinc	Micrograms per cubic metre	Every 6 days	5	<0.11	<0.11	0.06	0.21
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	4	<0.06	<0.06	5.0 (5.0)	no
Cyanide	Milligrams per litre	Every 8 days	4	<0.02	<0.02	0.30 (0.30)	no
Filtrable Iron	Milligrams per litre	Every 8 days	4	<0.01	0.02	0.3 (0.3)	no
Oil and Grease	Milligrams per litre	Every 8 days	4	<5	<5	20 (50)	no
pH		Every 8 days	4	8.2	8.3	6.5-9.0 (6.5-9.0)	no
Temperature	Degrees Celcius	Every 8 days	4	24	29	40 (40)	no
Total Iron	Milligrams per litre	Every 8 days	4	0.09	0.28	3 (50)	no
Total Suspended Solids	Milligrams per litre	Every 8 days	4	<3	18	50 (500)	no
Total Zinc	Milligrams per litre	Every 8 days	4	<0.05	<0.05	3 (3)	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	552114	665134		
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) *
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	7.8	7.8	6.5-9.0 (0.0-0.0)	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	304	2174		
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	111		
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	16		
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	2	<5	<5	20.0000	no
pH		24/year. Min 15 days apart	2	8.2	8.3	6.5-9.0	no
Temperature	Degrees Celcius	24/year. Min 15 days apart	2	19	23	35.00	no
Total Suspended Solids	Milligrams per litre	24/year. Min 15 days apart	2	<3	10	50.00	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	30585	36423		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	4	<0.06	<0.06	10.0 (10.0)	no
Cyanide	Milligrams per litre	Every 8 days	4	<0.02	<0.02	0.30 (0.30)	no
Filtrable Iron	Milligrams per litre	Every 8 days	4	<0.01	0.02	1.5 (1.5)	no
Lead	Milligrams per litre	Every 8 days	4	<0.02	<0.02	0.5 (0.5)	no
Mercury	Micrograms per litre	Every 8 days	4	<0.5	<0.5	1.5 (1.5)	no
pH		Every 8 days	4	8.1	8.3	6.5-11.0 (6.5-11.0)	no
Temperature	Degrees Celcius	Every 8 days	4	20	22	40 (40)	no
Total Iron	Milligrams per litre	Every 8 days	4	0.19	1	7 (100)	no
Total Suspended Solids	Milligrams per litre	Every 8 days	4	3	14	70 (500)	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	1693	2019		
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	2	<0.06	<0.06	7.5 (7.5)	no
Cyanide	Milligrams per litre	Every 8 days	2	<0.02	<0.02	0.30 (0.30)	no
Oil and Grease	Milligrams per litre	Every 8 days	2	<5	<5	20 (50)	no
pH		Every 8 days	2	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	2	20	21	40 (40)	no
Total Suspended Solids	Milligrams per litre	Every 8 days	2	<3	11	100 (200)	no
Total Zinc	Milligrams per litre	Every 8 days	2	<0.05	<0.05	3 (3)	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	23783	28912		
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
Fluoride	Milligrams per litre	Special frequency 11	0			50 (50)	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:							