



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 Dec 2019 to 31 Dec 2019

Monthly (December 2019) Report Published: 3, March, 2020

Date Obtained: 02/03/2020

Stack Air Monitoring Requirements

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





Point 40:

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) *
Cadmium (7% Oxygen correction)	Milligrams per cubic metre	Yearly	1	<0.00002	<0.00002	0.10000	no
Carbon Dioxide	Percent	Yearly	11	20	21		no
Carbon Monoxide (7% Oxygen correction)	Milligrams per cubic metre	Yearly	11	<3	<3	400.00	no
Dry Gas Density	Kilograms per cubic metre	Yearly	16	1.41	1.42		no
Mercury (7% Oxygen correction)	Milligrams per cubic metre	Yearly	1	0.0018	0.0018	0.10000	no
Moisture	Percent	Yearly	16	10	10		no
Molecular Weight of stack gases	grams per gram mole	Yearly	16	31.6	31.8		no
Nitrogen Oxides (7% Oxygen correction)	Milligrams per cubic metre	Yearly	11	176	193	600.00	no
Oxygen (O2)	Percent	Yearly	11	3.5	3.7		no
Solid Particles (7% Oxygen corrected)	Milligrams per cubic metre	Yearly	1	4.1	4.1	30.00	no
Sulphur Dioxide (7% Oxygen correction)	Milligrams per cubic metre	Yearly	11	275	304	1,250.00	no
Temperature	Degrees Celcius	Yearly	16	163	170		no
Type 1 and 2 substances in aggregate (7% Oxygen correction)	Milligrams per cubic metre	Yearly	1	0.033	0.033	1.0000	no
Velocity	Metres per second	Yearly	16	9.8	11		no
Volumetric flowrate	Cubic metres per second	Yearly	16	58	62		no
Comment:							



Point 138:

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	Every 2 years	3	1.33	1.33		no
Moisture	Percent	Every 2 years	3	10	10		no
Molecular Weight of stack gases	grams per gram mole	Every 2 years	3	29.7	29.7		no
Nitrogen Oxides (3% Oxygen correction)	Milligrams per cubic metre	Every 2 years	3	65	69	200.00	no
Oxygen (O2)	Percent	Every 2 years	3	9.6	9.7		no
Temperature	Degrees Celcius	Every 2 years	3	124	124		no
Velocity	Metres per second	Every 2 years	3	4.5	4.5		no
Volumetric flowrate	Cubic metres per second	Every 2 years	3	7.8	7.8		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	0.3	2.2	1.9	6.6
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	2.9	8.9	8.5	31.4
Comment: Elevated results associated with plant shutdown and startup							



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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	0.034	0.2828	0.2600	0.64
Fine Particulates	Micrograms per cubic metre	Continuous	Continuous	11	43	36	129
Iron	Micrograms per cubic metre	Every 6 days	5	0.79	6.438	3.70	14
Lead	Micrograms per cubic metre	Every 6 days	5	<0.055	<0.055	0.03	<0.057
Particulates - Deposited Matter	Grams per square metre per month	Monthly	1	2.3	2.3	2.30	2.3
Polycyclic aromatic hydrocarbons	Nanograms per cubic metre	24 hour period every 6 days.	5	0.61	7.022	5.40	20
Total suspended particles	Micrograms per cubic metre	Every 6 days	5	37	137.4	140	250
Zinc	Micrograms per cubic metre	Every 6 days	5	<0.11	<0.11	0.06	0.16
Comment:							

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

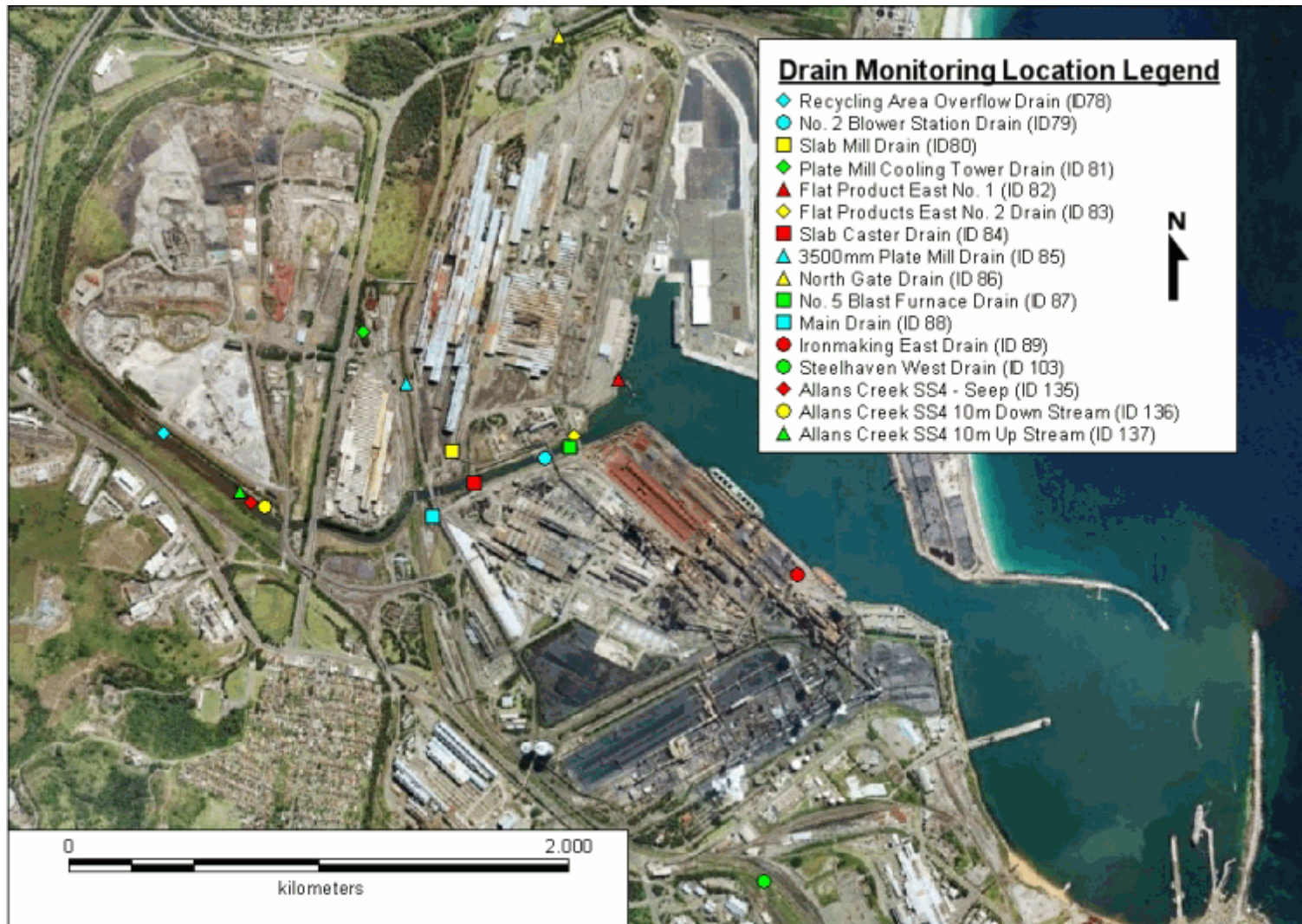
Pollutant	Units of Measure	Monitoring frequency required by licence	No. of times measured during month	Min. Value	Mean Value	Median Value	Max. Value
Benzene	Parts per billion	Every 6 days	5	0.056	0.1734	0.1800	0.29
Fine Particulates	Micrograms per cubic metre	Continuous	Continuous	17	49	37	173
Iron	Micrograms per cubic metre	Every 6 days	5	3.1	4.98	4.3	6.8
Lead	Micrograms per cubic metre	Every 6 days	5	<0.055	<0.055	0.03	<0.057
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.	5	0.74	1.666	1.2	3.9
Total suspended particles	Micrograms per cubic metre	Every 6 days	5	63	134.8	130	250
Zinc	Micrograms per cubic metre	Every 6 days	5	<0.11	0.219	0.26	0.36
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	1.4	4.2	3.1	9.5
Lead	Micrograms per cubic metre	Every 6 days	5	<0.055	<0.055	0.03	<0.057
Total suspended particles	Micrograms per cubic metre	Every 6 days	5	53	127.2	110	210
Zinc	Micrograms per cubic metre	Every 6 days	5	<0.11	0.213	0.22	0.35
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
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	0.1	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	8.1	8.2	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	0.31	3 (50)	no
Total Suspended Solids	Milligrams per litre	Every 8 days	4	4	16	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	628417	781868		
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	659	5281		
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) *
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	0	23		
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) *
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	0	0		
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	8.2	6.5-9.0	no
Temperature	Degrees Celcius	24/year. Min 15 days apart	2	21	26	35.00	no
Total Suspended Solids	Milligrams per litre	24/year. Min 15 days apart	2	4	6	50.00	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	19646	35276		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	0.03	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	8.2	6.5-11.0 (6.5-11.0)	no
Temperature	Degrees Celcius	Every 8 days	4	19	24	40 (40)	no
Total Iron	Milligrams per litre	Every 8 days	4	0.23	0.37	7 (100)	no
Total Suspended Solids	Milligrams per litre	Every 8 days	4	4	14	70 (500)	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	2095	2253		
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	8.1	8.2	6.5-9.0 (6.5-9.0)	no
Temperature	Degrees Celcius	Every 8 days	2	18	26	40 (40)	no
Total Suspended Solids	Milligrams per litre	Every 8 days	2	<3	17	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	26583	29383		
Comment:							



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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) *
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	0	0		
Comment:							