



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 Aug 2012 to 31 Aug 2012

Stack Air Monitoring Requirements

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





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

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	5.30	5.30	50.00	no
Comment:							

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	0.00021	0.00024		no
Cadmium	Milligrams per cubic metre	Quarterly in duplicate	2	0.00062	0.00130		no
Carbon Dioxide	Percent	Quarterly in duplicate	24	3.400	5.300		no
Chromium (hexavalent)	Milligrams per cubic metre	Yearly in duplicate	2	<0.00053	0.00073		no
Dioxins & Furans (15.7% Oxygen correction)	Nanograms per cubic metre	Quarterly in duplicate	2	0.0130	0.0180	0.3000	no
Dry Gas Density	Kilograms per cubic metre	Quarterly in duplicate	40	1.32	1.33		no
Fine Particulates	Milligrams per cubic metre	Quarterly in duplicate	2	2.40	2.50		no
Hydrogen Chloride	Milligrams per cubic metre	Quarterly in duplicate	2	16.00	20.00		no
Hydrogen Fluoride	Milligrams per cubic metre	Quarterly in duplicate	2	1.6000	2.3000		no
Lead	Milligrams per cubic metre	Quarterly in duplicate	2	0.0350	0.0800		no
Manganese	Milligrams per cubic metre	Quarterly in duplicate	2	0.0038	0.0260		no
Moisture	Percent	Quarterly in duplicate	40	7.00	9.50		no
Molecular Weight of stack gases	grams per gram mole	Quarterly in duplicate	40	29.60	29.80		no
Nickel	Milligrams per cubic metre	Quarterly in duplicate	2	0.00100	0.00280		no
Nitrogen Oxides	Milligrams per cubic metre	Quarterly	24	182.00	286.00	2,000.00	no
Oxygen (O2)	Percent	Quarterly in duplicate	24	16.00	18.00		no
Solid Particles	Milligrams per cubic metre	Quarterly in duplicate	2	4.00	5.50	20.00	no
Sulfuric acid mist and sulphur trioxide (as SO3)	Milligrams per cubic metre	Quarterly in duplicate	2	1.40	2.40	100.00	no
Sulphur Dioxide - UV	Milligrams per cubic metre	Quarterly	24	26.00	35.00	1,000.00	no
Temperature	Degrees Celcius	Quarterly in duplicate	40	142.00	144.00		no
Velocity	Metres per second	Quarterly in duplicate	40	14.00	17.00		no

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) *
Volumetric flowrate	Cubic metres per second	Quarterly in duplicate	40	290.00	350.00		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	5	1.29	1.29		no
Hydrogen Sulphide	Grams per second	Quarterly	1	0.87	0.87	1.20	no
Moisture	Percent	Quarterly	5	2.30	4.20		no
Molecular Weight of stack gases	grams per gram mole	Quarterly	5	28.90	29.00		no
Temperature	Degrees Celcius	Quarterly	5	20.00	30.00		no
Velocity	Metres per second	Quarterly	5	1.90	2.60		no
Volumetric flowrate	Cubic metres per second	Quarterly	5	22.00	28.00		no
Comment:							



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

Ambient Air Monitoring Requirements

EPL6092 Condition M2.2/M2.3 (Cont.)

Point 140: Residential Receiver 1 (South of Licenced site)

Pollutant	Units of Measure	Monitoring frequency required by licence	No. of times measured during month	Min. Value	Mean Value	Median Value	Max. Value
Ash	Grams per square metre per month	Monthly	1	2.10	2.10	2.10	2.10
Benzene	Parts per billion	Every 6 days	5	0.0420	0.0844	0.0700	0.1800
Insoluble Solid	Grams per square metre per month	Monthly	1	3.10	3.10	3.10	3.10
Iron	Micrograms per cubic metre	Every 6 days	5	0.19	0.61	0.75	0.90
Polycyclic aromatic hydrocarbons	Nanograms per cubic metre	24 hour period every 6 days	5	0.69	0.91	0.93	1.10
Polycyclic aromatic hydrocarbons	Nanograms per cubic metre	A weekly sample when the wind is blowing wind direction 0-60 degrees.	4	3.80	11.58	7.75	27.00
Total suspended particles	Micrograms per cubic metre	Every 6 days	5	6.80	17.36	21.00	22.00
Zinc	Micrograms per cubic metre	Every 6 days	5	<0.12	0.06	0.06	<0.12
Comment:							

Point 141: Residential Receiver 2 (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	0.0350	0.0582	0.0650	0.0770
Iron	Micrograms per cubic metre	Every 6 days	5	0.16	0.50	0.45	0.87
Polycyclic aromatic hydrocarbons	Nanograms per cubic metre	24 hour period every 6 days.	5	0.68	0.89	0.76	1.40
Total suspended particles	Micrograms per cubic metre	Every 6 days	5	6.20	14.84	16.00	20.00
Zinc	Micrograms per cubic metre	Every 6 days	5	<0.12	0.06	0.06	<0.15
Comment:							

Point 142: Residential Receiver 3 (located South 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	0.14	0.89	1.00	1.60
Total suspended particles	Micrograms per cubic metre	Every 6 days	5	5.50	16.40	19.00	26.00
Zinc	Micrograms per cubic metre	Every 6 days	5	<0.12	0.06	0.06	<0.12
Comment:							

Point 143: Residential Receiver 4 (located North East 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
Ash	Grams per square metre per month	Monthly	1	0.40	0.40	0.40	0.40
Insoluble Solid	Grams per square metre per month	Monthly	1	0.80	0.80	0.80	0.80
Iron	Micrograms per cubic metre	Every 6 days	5	0.43	1.35	0.82	3.60
Total suspended particles	Micrograms per cubic metre	Every 6 days	5	6.40	30.88	36.00	46.00
Zinc	Micrograms per cubic metre	Every 6 days	5	<0.12	0.08	0.06	0.13
Comment:							

Point 144: Residential Receiver 5 (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
Ash	Grams per square metre per month	Monthly	1	2.00	2.00	2.00	2.00
Insoluble Solid	Grams per square metre per month	Monthly	1	3.00	3.00	3.00	3.00
Comment:							

Point 145: Residential Receiver 6 (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
Ash	Grams per square metre per month	Monthly	1	1.10	1.10	1.10	1.10
Insoluble Solid	Grams per square metre per month	Monthly	1	1.60	1.60	1.60	1.60
Comment:							

Point 146: Residential Receiver 7 (located North 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
Ash	Grams per square metre per month	Monthly	1	2.50	2.50	2.50	2.50
Insoluble Solid	Grams per square metre per month	Monthly	1	3.90	3.90	3.90	3.90
Comment:							

Point 147: Residential Receiver 8 (located South East 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
Ash	Grams per square metre per month	Monthly	1	6.90	6.90	6.90	6.90
Insoluble Solid	Grams per square metre per month	Monthly	1	14.40	14.40	14.40	14.40
Comment:							

Point 148: Residential Receiver 9 (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
Ash	Grams per square metre per month	Monthly	1	0.80	0.80	0.80	0.80
Insoluble Solid	Grams per square metre per month	Monthly	1	1.40	1.40	1.40	1.40
Comment:							

Point 149: Residential Receiver 10 (located South West of licensed site)

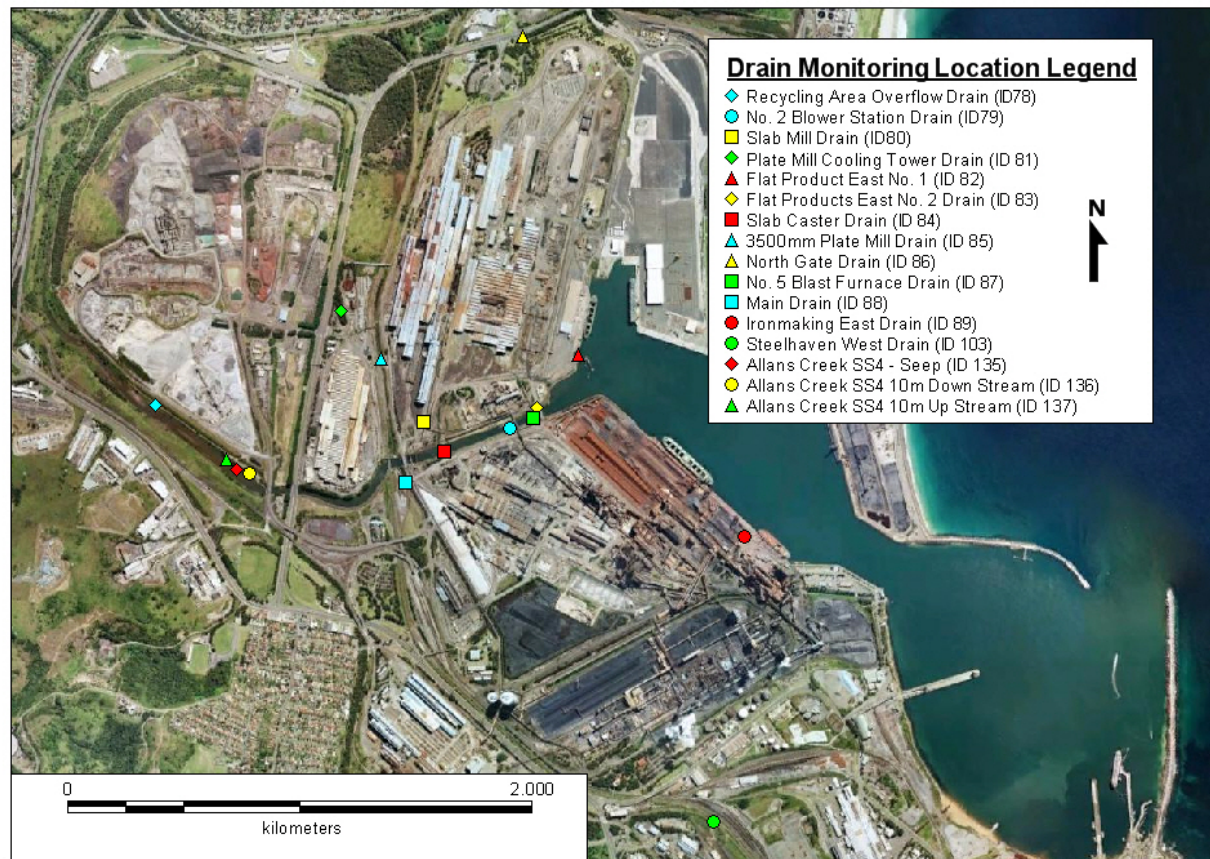
Pollutant	Units of Measure	Monitoring frequency required by licence	No. of times measured during month	Min. Value	Mean Value	Median Value	Max. Value
Ash	Grams per square metre per month	Monthly	1	0.40	0.40	0.40	0.40
Insoluble Solid	Grams per square metre per month	Monthly	1	0.80	0.80	0.80	0.80
Comment:							

Point 150: Residential Receiver 11 (located South East 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
Polycyclic aromatic hydrocarbons	Nanograms per cubic metre	weekly sample when the wind is blowing wind direction 225-315 degrees	4	13.00	29.75	28.00	50.00
Comment:							

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
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	0.00	0.00	0.00	0.00
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	<0.0600	<0.0600	5.0 (5.0)	no
BOD	Milligrams per litre	Every 8 days	4	<2.00	<2.00	20 (20)	no
Cadmium	Milligrams per litre	Every 8 days	4	<0.005	<0.005	0.06 (0.06)	no
Cyanide	Milligrams per litre	Every 4 days	8	<0.0050	0.0140	0.30 (0.30)	no
Filtrable Iron	Milligrams per litre	Every 8 days	4	0.0150	0.0190	0.3 (0.3)	no
Lead	Milligrams per litre	Every 8 days	4	<0.02	0.03	0.1 (0.1)	no
Oil and Grease	Milligrams per litre	Every 8 days	4	<5.0000	<5.0000	20 (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	22.00	24.00	40 (40)	no
Total Iron	Milligrams per litre	Every 8 days	4	0.1090	0.2500	3 (50)	no
Total Suspended Solids	Milligrams per litre	Every 8 days	4	<2.00	12.00	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	509,810.00	708,422.00		
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	0.0180	0.0180	0.10 (0.10)	no
pH		6/yr. Min 50 days apart.	1	8.20	8.20	6.5-9.0 (6.5-9.0)	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	171.00	1,173.00		
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	0.00	63.00		
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	0.00	10.00		
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	<5.0000	<5.0000	20.0000	no
pH		24/year. Min 15 days apart	2	8.10	8.20	6.5-9.0	no
Temperature	Degrees Celcius	24/year. Min 15 days apart	2	19.00	20.00	35.00	no
Total Suspended Solids	Milligrams per litre	24/year. Min 15 days apart	2	2.80	12.00	50.00	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	30,773.00	31,905.00		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	<0.0600	1.2300	10.0 (10.0)	no
Cadmium	Milligrams per litre	Every 8 days	4	<0.005	<0.005	0.15 (0.15)	no
Chromium (Total)	Milligrams per litre	Every 8 days	4	<0.010	<0.010	0.6 (0.6)	no
Cyanide	Milligrams per litre	Every 8 days	4	<0.0050	0.0070	0.30 (0.30)	no
Filtrable Iron	Milligrams per litre	Every 8 days	4	0.0150	0.0160	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	<0.10	<0.10	1.5 (1.5)	no
Oil and Grease	Milligrams per litre	Every 8 days	4	<5.0000	<5.0000	20 (20)	no
pH		Every 8 days	4	7.90	8.00	6.5-11.0 (6.5-11.0)	no
Temperature	Degrees Celcius	Every 8 days	4	12.00	18.00	40 (40)	no
Total Iron	Milligrams per litre	Every 8 days	4	0.1020	0.1610	7 (100)	no
Total Suspended Solids	Milligrams per litre	Every 8 days	4	<2.00	12.00	70 (500)	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	1,025.00	1,410.00		
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 4 days	8	<0.0600	0.3400	7.5 (7.5)	no
Ammonia	Tonnes per day	Every 4 days	8	0.004	0.042	1.200	no
Cadmium	Milligrams per litre	Every 8 days	4	<0.005	<0.005	0.06 (0.06)	no
Cyanide	Kilograms per day	Every 4 days	8	0.30	0.37	27.00	no
Cyanide	Milligrams per litre	Every 4 days	8	<0.0050	<0.0050	0.30 (0.30)	no
Lead	Milligrams per litre	Every 8 days	4	<0.02	<0.02	0.1 (0.1)	no
Oil and Grease	Milligrams per litre	Every 8 days	4	<5.0000	<5.0000	20 (50)	no
Oil and Grease	Tonnes per day	Every 8 days	4	0.31	0.37	2.50	no
pH		Every 8 days	4	7.80	8.20	6.5-9.0 (6.5-9.0)	no
Phenol	Kilograms per day	Every 8 days	4	0.31	1.60	35.00	no
Phenol	Milligrams per litre	Every 8 days	4	<0.0050	0.0130	0.45 (0.45)	no
Temperature	Degrees Celcius	Every 8 days	4	21.00	25.00	40 (40)	no
Total Suspended Solids	Milligrams per litre	Every 4 days	8	<2.00	16.00	100 (200)	no
Total Suspended Solids	Tonnes per day	Every 4 days	8	0.14	2.37	12.00	no
Total Zinc	Kilograms per day	Every 8 days	4	3.07	3.65	35.00	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	120,667.00	150,225.00		
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	Every 4 days	8	<0.0600	0.9000	7.0 (7.0)	no
Arsenic	Micrograms per litre	Every 8 days	4	<10.00	<10.00	50.00	no
Cadmium	Milligrams per litre	Every 8 days	4	<0.005	<0.005	0.05 (0.05)	no
Chromium (Total)	Milligrams per litre	Every 8 days	4	<0.010	<0.010	0.350	no
Copper	Milligrams per litre	Every 8 days	4	<0.01	<0.01	1.00	no
Cyanide	Milligrams per litre	Every 4 days	8	<0.0050	0.0150	0.20 (0.20)	no
Filtrable Iron	Milligrams per litre	Every 8 days	4	0.0330	0.0500	0.5 (0.5)	no
Fluoride	Milligrams per litre	Every 8 days	4	<1.00	1.00	50 (50)	no
Lead	Milligrams per litre	Every 8 days	4	<0.02	<0.02	0.2 (0.2)	no
Mercury	Micrograms per litre	Every 8 days	4	<0.10	<0.10	3.0 (3.0)	no
Oil and Grease	Milligrams per litre	Every 8 days	4	<5.0000	<5.0000	20 (20)	no
pH		Every 8 days	4	7.80	7.90	6.5-9.0 (6.5-9.0)	no
Selenium	Micrograms per litre	Every 8 days	4	<10.00	<10.00	20.00	no
Temperature	Degrees Celcius	Every 8 days	4	17.00	20.00	45 (45)	no
Total Iron	Milligrams per litre	Every 8 days	4	0.2930	0.4260	7 (20)	no
Total Suspended Solids	Milligrams per litre	Every 4 days	8	<2.00	16.00	100 (200)	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	533.00	2,267.00		
Comment:							