



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 Jan 2021 to 31 Jan 2021**

Monthly (January 2021) Report Published: 31, March, 2021

Date Obtained: 31/03/2021

## 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	0.0013	0.0014		no
Cadmium	Milligrams per cubic metre	Quarterly in duplicate	2	0.00064	0.00078		no
Carbon Dioxide	Percent	Quarterly in duplicate	8	5.1	5.8		no
Dioxins & Furans (15.7% Oxygen correction)	Nanograms per cubic metre	Quarterly in duplicate	2	0.0064	0.0066	0.300000	no
Dry Gas Density	Kilograms per cubic metre	Quarterly in duplicate	20	1.32	1.34		no
Fine Particulates	Milligrams per cubic metre	Quarterly in duplicate	2	2.4	2.8		no
Hydrogen Chloride	Milligrams per cubic metre	Quarterly in duplicate	2	21	23		no
Hydrogen Fluoride	Milligrams per cubic metre	Quarterly in duplicate	2	1.4	1.4		no
Lead	Milligrams per cubic metre	Quarterly in duplicate	2	0.025	0.025		no
Manganese	Milligrams per cubic metre	Quarterly in duplicate	2	0.0049	0.0049		no
Moisture	Percent	Quarterly in duplicate	20	8.3	9.5		no
Molecular Weight of stack gases	grams per gram mole	Quarterly in duplicate	20	29.6	30		no
Nickel	Milligrams per cubic metre	Quarterly in duplicate	2	0.00041	0.00058		no
Nitrogen Oxides	Milligrams per cubic metre	Quarterly	8	274	307	2,000.00	no
Oxygen (O2)	Percent	Quarterly in duplicate	8	16	17.3		no
Solid Particles	Milligrams per cubic metre	Quarterly in duplicate	2	3.7	4.3	20.00	no
Sulfuric acid mist and sulphur trioxide (as SO3)	Milligrams per cubic metre	Quarterly in duplicate	2	2.4	2.8	100.00	no
Sulphur Dioxide - UV	Milligrams per cubic metre	Quarterly	8	110	110	1,000.00	no
Temperature	Degrees Celcius	Quarterly in duplicate	20	134	136		no
Velocity	Metres per second	Quarterly in duplicate	20	14	17		no
Volumetric flowrate	Cubic metres per second	Quarterly in duplicate	20	290	340		no



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

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	0.0	2.8	2.7	8.1
<b>Comment:</b>							

**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	0.0	5.7	5.1	39.0
<b>Comment:</b> Elevated results associated with plant shutdown and startup.							



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/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
<b>Comment:</b>				

**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
<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
Benzene	Parts per billion	Every 6 days	5	0.01	0.0696	0.0310	0.22
Fine Particulates	Micrograms per cubic metre	Continuous	Continuous	8	23	19	50
Iron	Micrograms per cubic metre	Every 6 days	5	0.37	2.094	1.30	5.6
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	1.4	1.4	1.40	1.4
Polycyclic aromatic hydrocarbons	Nanograms per cubic metre	24 hour period every 6 days.	5	0.61	2.91	0.82	10
Total suspended particles	Micrograms per cubic metre	Every 6 days	5	28	53.6	59.00	73
Type 1 and Type 2 substances in aggregate	Micrograms per cubic metre	Quarterly	1	0.066	0.066	0.07	0.066
Zinc	Micrograms per cubic metre	Every 6 days	5	<0.11	<0.11	0.06	0.29
<b>Comment:</b>							



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

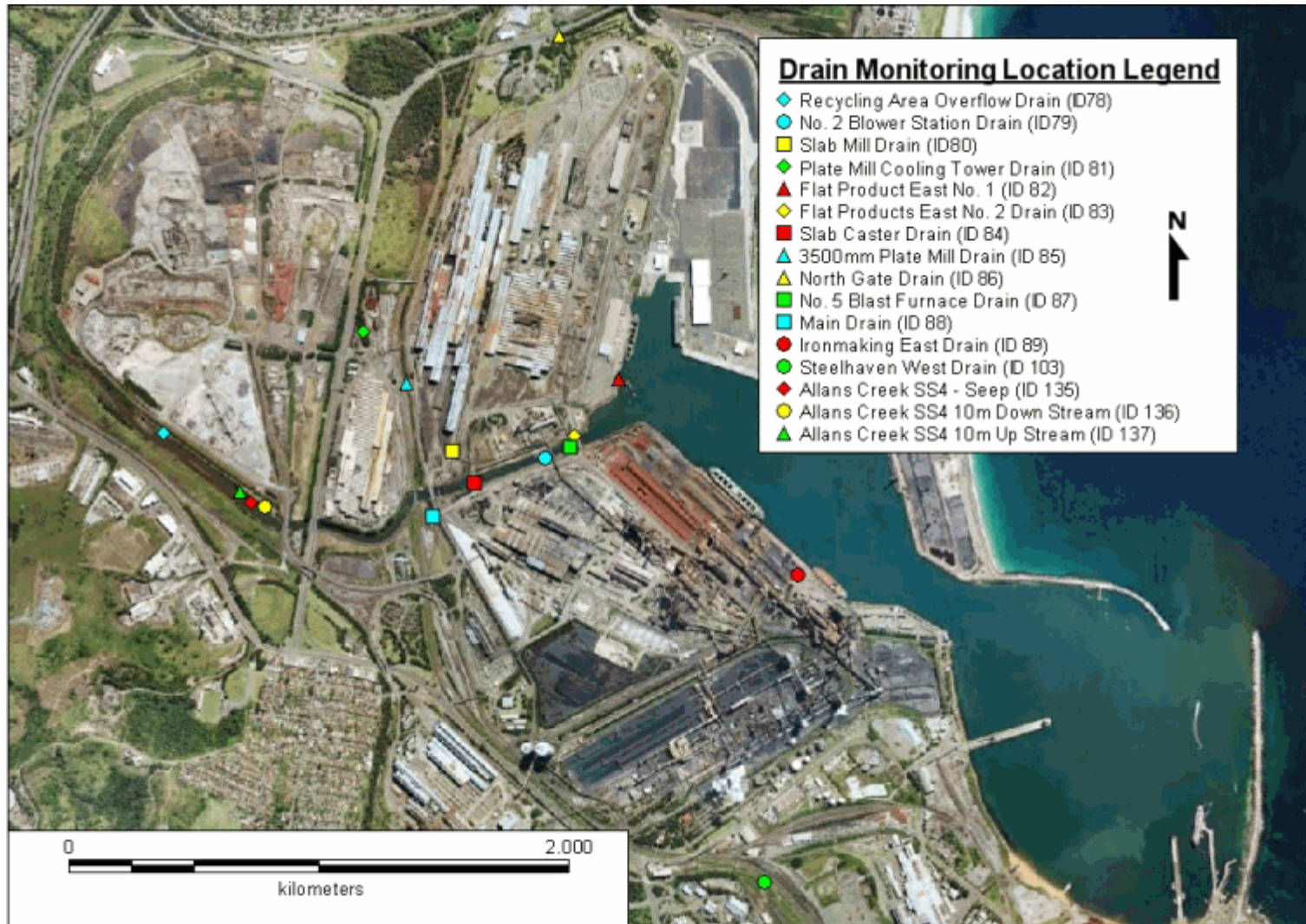
Pollutant	Units of Measure	Monitoring frequency required by licence	No. of times measured during month	Min. Value	Mean Value	Median Value	Max. Value
Benzene	Parts per billion	Every 6 days	5	0.016	0.0296	0.0280	0.054
Fine Particulates	Micrograms per cubic metre	Continuous	Continuous	8	22	20	40
Iron	Micrograms per cubic metre	Every 6 days	5	0.57	1.354	1.10	2.8
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	0.84	0.84	0.84	0.84
Polycyclic aromatic hydrocarbons	Nanograms per cubic metre	24 hour period every 6 days.	5	0.61	0.854	0.83	1.1
Total suspended particles	Micrograms per cubic metre	Every 6 days	5	34	45.6	41.00	71
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	5	<0.11	<0.11	0.06	0.22
<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	4	0.47	1.442	1.60	2.1
Lead	Micrograms per cubic metre	Every 6 days	4	<0.055	<0.055	0.03	<0.057
Total suspended particles	Micrograms per cubic metre	Every 6 days	4	31	46	46.00	61
Type 1 and Type 2 substances in aggregate	Micrograms per cubic metre	Quarterly	1	0.2	0.2	0.20	0.2
Zinc	Micrograms per cubic metre	Every 6 days	4	<0.11	<0.11	0.06	0.17
<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	6.484	0.00	201
<b>Comment:</b>							

**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	0.12	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	28.2	30.2	40 (40)	no
Total Iron	Milligrams per litre	Every 8 days	5	0.12	0.31	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	555839	661698		
<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	7.7	7.7	6.5-9.0 (0.0-0.0)	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	830	3968		
<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	2943		
<b>Comment:</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	466		
<b>Comment:</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	7	<5	<5	20.0000	no
pH		24/year. Min 15 days apart	7	8	8.2	6.5-9.0	no
Temperature	Degrees Celcius	24/year. Min 15 days apart	7	20.7	25.2	35.00	no
Total Suspended Solids	Milligrams per litre	24/year. Min 15 days apart	7	<3	20	50.00	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	32753	35020		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	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	<0.01	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	21.2	23.2	40 (40)	no
Total Iron	Milligrams per litre	Every 8 days	4	0.13	0.36	7 (100)	no
Total Suspended Solids	Milligrams per litre	Every 8 days	4	5	22	70 (500)	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	1699	2040		
<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/year. Min 15 days apart	2	<0.06	<0.06	7.5 (7.5)	no
Cyanide	Milligrams per litre	24/year. Min 15 days apart	2	<0.02	<0.02	0.30 (0.30)	no
Oil and Grease	Milligrams per litre	24/year. Min 15 days apart	2	<5	<5	20 (50)	no
pH		24/year. Min 15 days apart	2	8.1	8.2	6.5-9.0 (6.5-9.0)	no
Temperature	Degrees Celcius	24/year. Min 15 days apart	2	21.2	24.2	40 (40)	no
Total Suspended Solids	Milligrams per litre	24/year. Min 15 days apart	2	6	19	100 (200)	no
Total Zinc	Milligrams per litre	24/year. Min 15 days apart	2	<0.05	<0.05	3 (3)	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	21983	80510		
<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	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		
<b>Comment:</b>							



**Point 135:**

Pollutant	Units of Measure	Monitoring frequency required by licence	No. of times measured during month	Min. Value	Mean Value	Median Value	Max. Value
Ammonia	Milligrams per litre	1 sample in Licence. Q1. 1 sample in Q3. 1 sample following a rainfall event of more than 10mm in a 24 hour period.	1	<0.06	<0.06	0.0300	<0.06
pH		1 sample in Licence. Q1. 1 sample in Q3. 1 sample following a rainfall event of more than 10mm in a 24 hour period.	1	8.5	8.5	8.50	8.5
Temperature	Degrees Celcius	1 sample in Licence. Q1. 1 sample in Q3. 1 sample following a rainfall event of more than 10mm in a 24 hour period.	1	29.2	29.2	29.20	29.2
<b>Comment:</b>							