



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

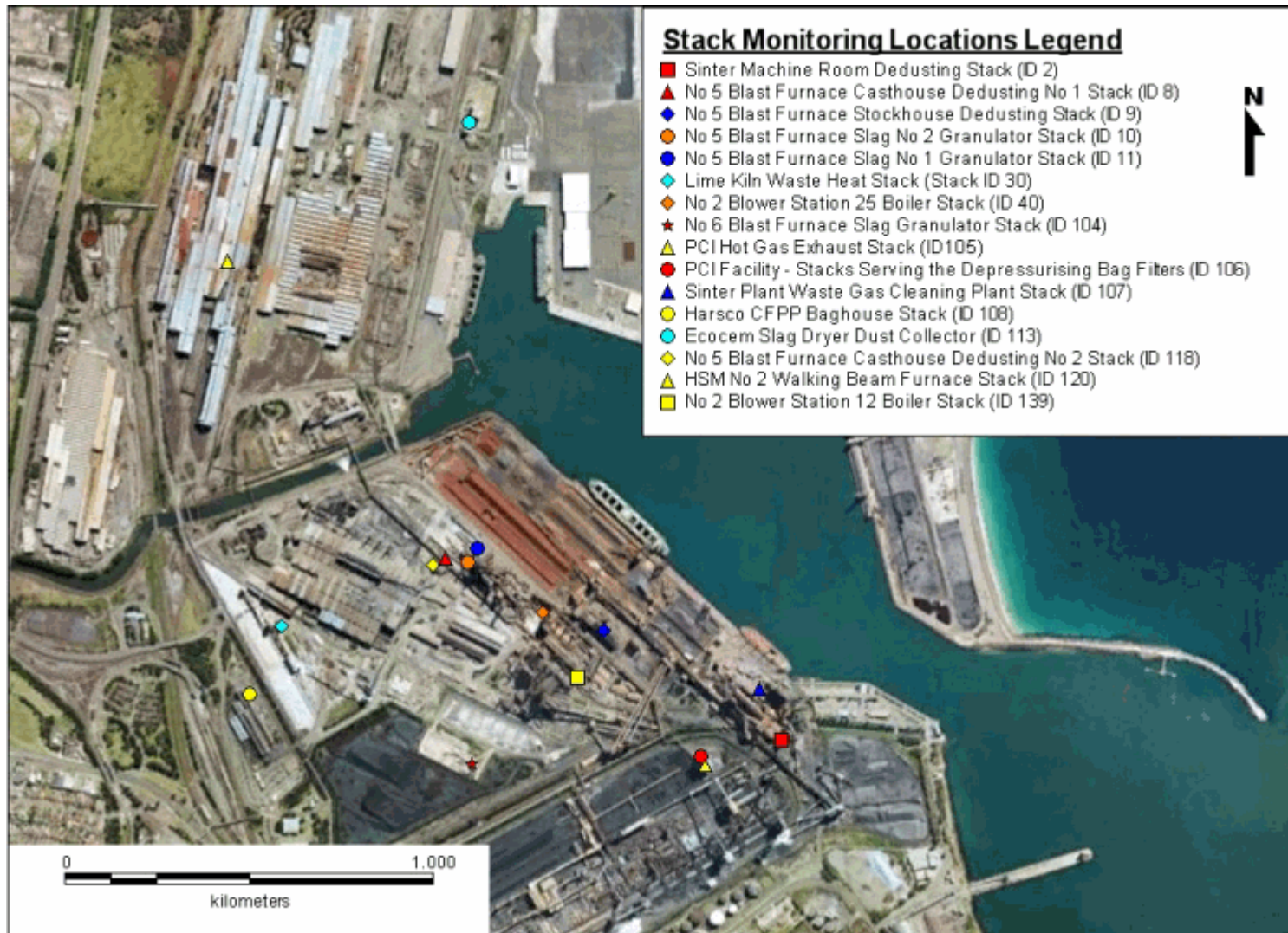
for

1 Jul 2018 to 31 Jul 2018

Monthly (July 2018) Report Published: 5, November, 2018

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	0.0011	0.0012		no
Cadmium	Milligrams per cubic metre	Quarterly in duplicate	2	0.00053	0.00074		no
Carbon Dioxide	Percent	Quarterly in duplicate	48	5.2	7		no
Chromium (hexavalent)	Milligrams per cubic metre	Yearly in duplicate	2	0.0005	0.00053		no
Dioxins & Furans (15.7% Oxygen correction)	Nanograms per cubic metre	Quarterly in duplicate	2	0.0046	0.0049	0.300000	no
Dry Gas Density	Kilograms per cubic metre	Quarterly in duplicate	43	1.32	1.35		no
Fine Particulates	Milligrams per cubic metre	Quarterly in duplicate	2	3.2	3.3		no
Hydrogen Chloride	Milligrams per cubic metre	Quarterly in duplicate	2	29	30		no
Hydrogen Fluoride	Milligrams per cubic metre	Quarterly in duplicate	2	2.6	2.6		no
Lead	Milligrams per cubic metre	Quarterly in duplicate	2	0.02	0.021		no
Manganese	Milligrams per cubic metre	Quarterly in duplicate	2	0.0035	0.0044		no
Moisture	Percent	Quarterly in duplicate	43	9	12		no
Molecular Weight of stack gases	grams per gram mole	Quarterly in duplicate	43	29.6	30.1		no
Nickel	Milligrams per cubic metre	Quarterly in duplicate	2	0.00052	0.0019		no
Nitrogen Oxides	Milligrams per cubic metre	Quarterly	48	281	425	2,000.00	no
Oxygen (O2)	Percent	Quarterly in duplicate	48	15	17		no
Solid Particles	Milligrams per cubic metre	Quarterly in duplicate	2	3.7	4.9	20.00	no
Sulfuric acid mist and sulphur trioxide (as SO3)	Milligrams per cubic metre	Quarterly in duplicate	7	3.4	9.9	100.00	no
Sulphur Dioxide - UV	Milligrams per cubic metre	Quarterly	48	201	278	1,000.00	no
Temperature	Degrees Celcius	Quarterly in duplicate	43	133	138		no
Velocity	Metres per second	Quarterly in duplicate	43	16	18		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	43	320	370		no
Comment:							

Point 118:

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	Yearly	1	51	51	50.00	yes
Comment: There was 1 licence non-compliance during the month.							



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	3.5	3.4	7.8
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	7.1	6.9	19.4
Comment:							



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Ambient Air Monitoring Requirements

EPL6092 Condition M2.2/M2.3/O4.14,O4.15 (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	4	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
Fine Particulates	Micrograms per cubic metre	Continuous	Continuous	7	20	15	63
Benzene	Parts per billion	Every 6 days	5	0.019	0.0436	0.0400	0.063
Iron	Micrograms per cubic metre	Every 6 days	5	0.35	0.89	0.72	2.1
Lead	Micrograms per cubic metre	Every 6 days	5	<0.053	<0.053	0.03	<0.055
Particulates - Deposited Matter	Grams per square metre per month	Monthly	1	0.67	0.67	0.67	0.67
Polycyclic aromatic hydrocarbons	Nanograms per cubic metre	24 hour period every 6 days.	5	0.6	0.788	0.64	1.1
Total suspended particles	Micrograms per cubic metre	Every 6 days	5	13	26	21.00	49
Type 1 and Type 2 substances in aggregate	Micrograms per cubic metre	Quarterly	1	0.013	0.013	0.01	0.013
Zinc	Micrograms per cubic metre	Every 6 days	5	<0.11	<0.11	0.06	<0.11
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
Fine Particulates	Micrograms per cubic metre	Continuous	Continuous	12	25	21	71
Benzene	Parts per billion	Every 6 days	5	0.014	0.0542	0.0710	0.082
Iron	Micrograms per cubic metre	Every 6 days	5	1.5	3.02	2.30	6.4
Lead	Micrograms per cubic metre	Every 6 days	5	<0.053	<0.053	0.03	<0.055
Particulates - Deposited Matter	Grams per square metre per month	Monthly	1	0.75	0.75	0.75	0.75
Polycyclic aromatic hydrocarbons	Nanograms per cubic metre	24 hour period every 6 days.	5	0.6	1.58	1.40	2.6
Total suspended particles	Micrograms per cubic metre	Every 6 days	5	23	40.2	35.00	63
Type 1 and Type 2 substances in aggregate	Micrograms per cubic metre	Quarterly	1	0.051	0.051	0.05	0.051
Zinc	Micrograms per cubic metre	Every 6 days	5	<0.11	0.183	0.15	0.4
Comment:							

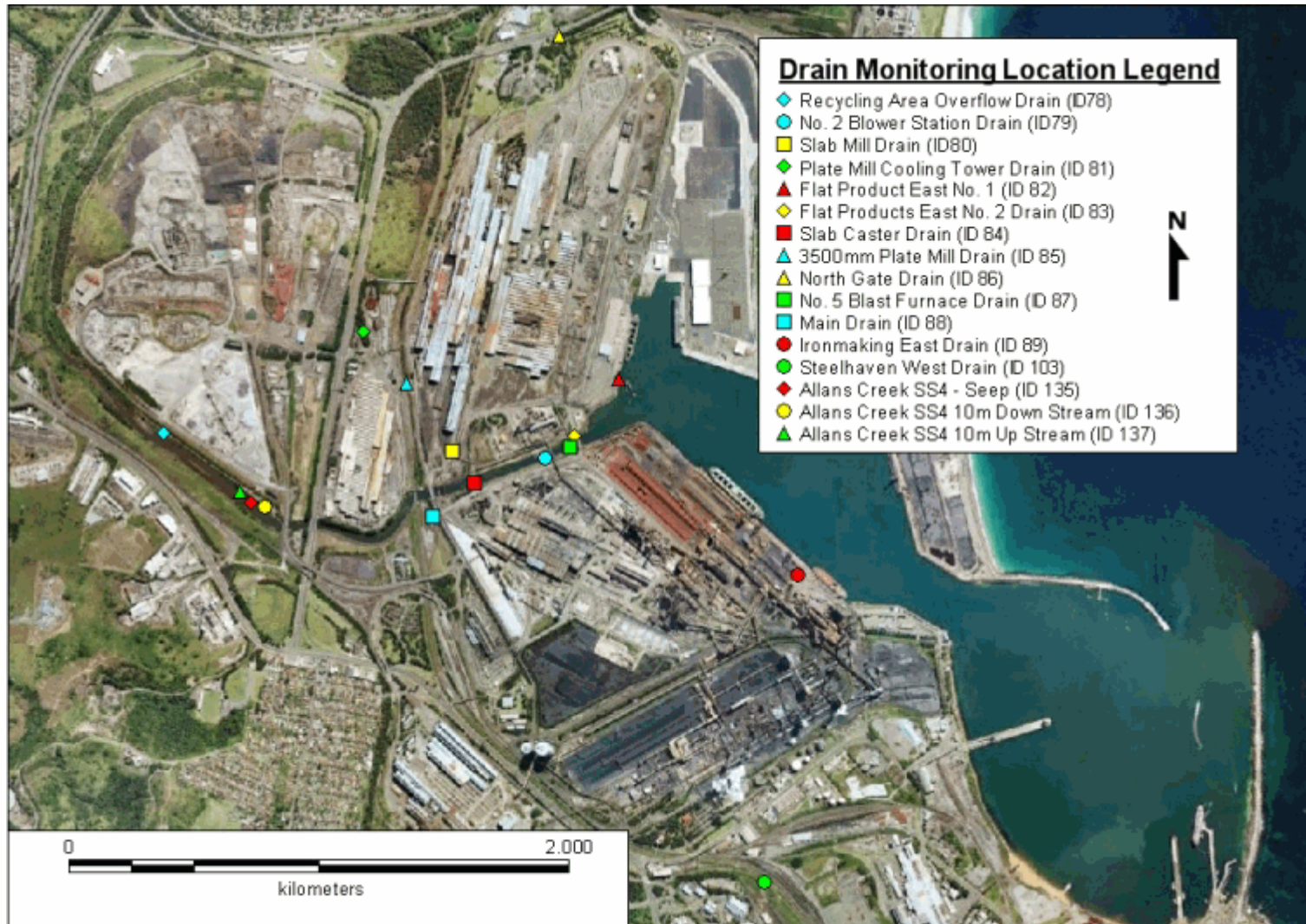


Point 153: Receiver 3 (located west of licensed site)

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	0.18	1.696	1.60	3.3
Lead	Micrograms per cubic metre	Every 6 days	5	<0.053	<0.053	0.03	<0.055
Total suspended particles	Micrograms per cubic metre	Every 6 days	5	8	37.4	34.00	81
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	5	<0.11	<0.11	0.06	0.25
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	0.03	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	23	25	40 (40)	no
Total Iron	Milligrams per litre	Every 8 days	4	0.12	0.2	3 (50)	no
Total Suspended Solids	Milligrams per litre	Every 8 days	4	14	15	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	595527	677196		
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.	3	<0.02	<0.02	0.20 (0.00)	no
pH		6/yr. Min 50 days apart.	3	7.6	7.9	6.5-9.0 (0.0-0.0)	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	380	2053		
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	124		
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	17	19	35.00	no
Total Suspended Solids	Milligrams per litre	24/year. Min 15 days apart	2	4	16	50.00	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	35574	36270		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	8.2	8.3	6.5-11.0 (6.5-11.0)	no
Temperature	Degrees Celcius	Every 8 days	4	16	18	40 (40)	no
Total Iron	Milligrams per litre	Every 8 days	4	0.16	0.69	7 (100)	no
Total Suspended Solids	Milligrams per litre	Every 8 days	4	<3	13	70 (500)	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	1506	1796		
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	8.3	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	14	14	40 (40)	no
Total Suspended Solids	Milligrams per litre	Every 8 days	2	12	14	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	26434	29811		

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

Comment: