



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

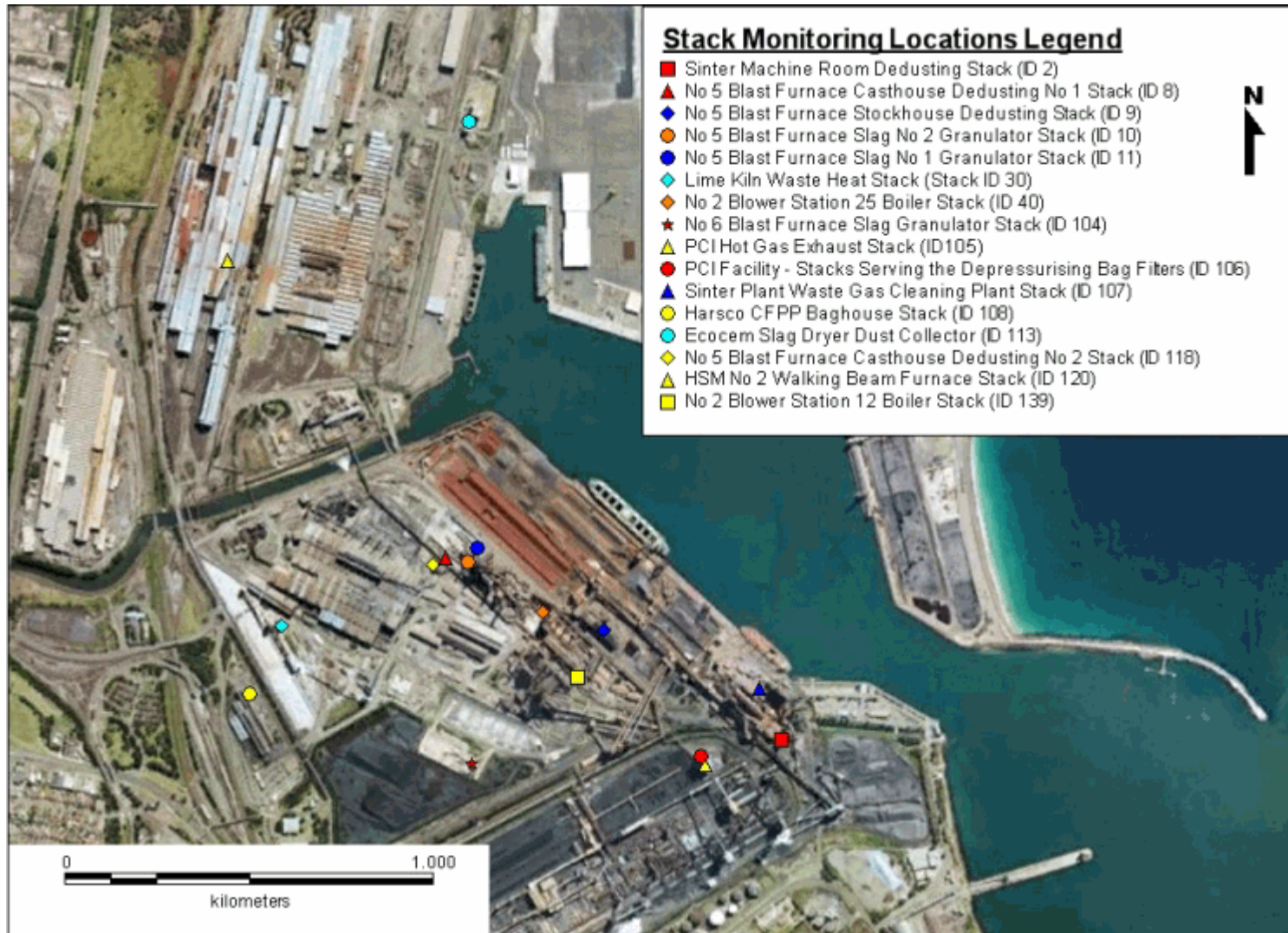
for

1 Mar 2017 to 31 Mar 2017

Monthly (March 2017) Report Published: 17, May, 2017

Stack Air Monitoring Requirements

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





Point 113:

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) *
Nitrogen Oxides (18% Oxygen correction)	Milligrams per cubic metre	Yearly	4	14	15	80.00	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	7	1.3	1.3		no
Hydrogen Sulphide	Grams per second	Quarterly	1	0.41	0.41	1.20	no
Moisture	Percent	Quarterly	7	7.3	7.9		no
Molecular Weight of stack gases	grams per gram mole	Quarterly	7	29.1	29.1		no
Temperature	Degrees Celcius	Quarterly	7	40	42		no
Velocity	Metres per second	Quarterly	7	2.4	3.5		no
Volumetric flowrate	Cubic metres per second	Quarterly	8	24	35		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	1.5	1.1	15.2
Comment: Elevated results associated with plant start-up and shutdown							

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	0.5	4.5	3.9	42.7
Comment: Elevated results associated with plant start-up							



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Ambient Air Monitoring Requirements

EPL6092 Condition M2.2/M2.3/O4.14,O4.15 (Cont.)



O4.14

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:				

O4.15

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	4.3	19	16	34
Benzene	Parts per billion	Every 6 days	5	0.03	0.1018	0.1100	0.17
Iron	Micrograms per cubic metre	Every 6 days	5	0.13	3.296	1.20	7.4
Lead	Micrograms per cubic metre	Every 6 days	5	<0.056	<0.056	0.03	<0.056
Particulates - Deposited Matter	Grams per square metre per month	Monthly	1	1.7	1.7	1.70	1.7
Polycyclic aromatic hydrocarbons	Nanograms per cubic metre	24 hour period every 6 days.	5	1.2	1.2	1.20	1.2
Total suspended particles	Micrograms per cubic metre	Every 6 days	5	26	67.8	67.00	110
Zinc	Micrograms per cubic metre	Every 6 days	5	<0.11	<0.11	0.06	0.28
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	5.5	22.5	22.2	38.3
Benzene	Parts per billion	Every 6 days	5	0.03	0.0826	0.0700	0.17
Iron	Micrograms per cubic metre	Every 6 days	5	0.49	1.618	1.60	2.8
Lead	Micrograms per cubic metre	Every 6 days	5	<0.056	<0.056	0.03	<0.056
Particulates - Deposited Matter	Grams per square metre per month	Monthly	1	1.7	1.7	1.70	1.7
Polycyclic aromatic hydrocarbons	Nanograms per cubic metre	24 hour period every 6 days.	5	1.2	1.2	1.20	1.2
Total suspended particles	Micrograms per cubic metre	Every 6 days	5	8.6	46.72	55.00	74
Zinc	Micrograms per cubic metre	Every 6 days	5	<0.11	0.124	0.12	0.2
Comment:							

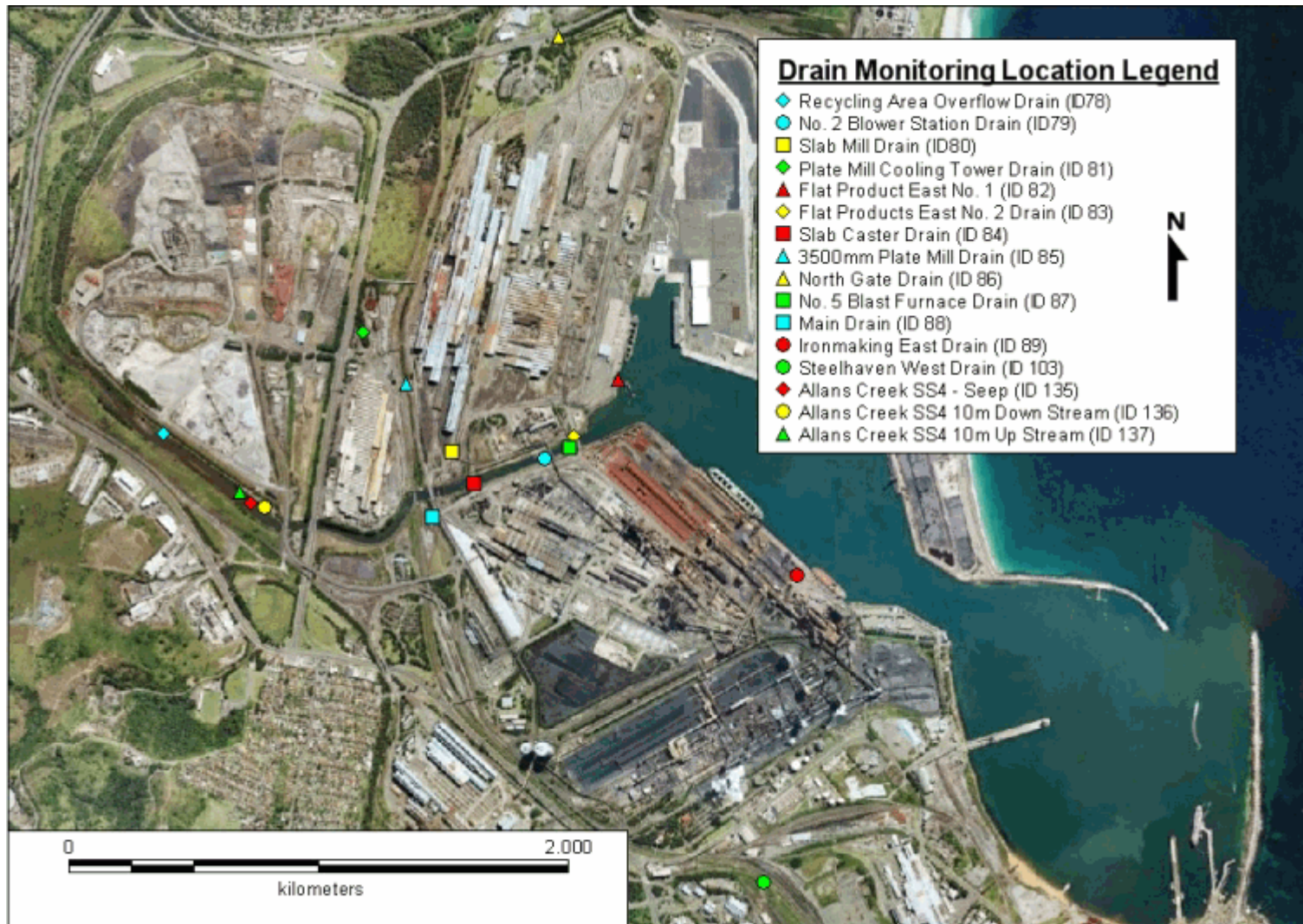


Point 153: Receiver 3 (located west of licensed site)

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	0.62	1.022	1.20	1.4
Lead	Micrograms per cubic metre	Every 6 days	5	<0.056	<0.056	0.03	<0.056
Total suspended particles	Micrograms per cubic metre	Every 6 days	5	26	46.4	48.00	58
Zinc	Micrograms per cubic metre	Every 6 days	5	<0.11	<0.11	0.06	0.11
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	241.097	0.00	1878
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	3	<0.06	<0.06	5.0 (5.0)	no
Cyanide	Milligrams per litre	Every 8 days	3	<0.02	<0.02	0.30 (0.30)	no
Filtrable Iron	Milligrams per litre	Every 8 days	3	<0.01	0.012	0.3 (0.3)	no
Oil and Grease	Milligrams per litre	Every 8 days	3	<5	<5	20 (50)	no
pH		Every 8 days	3	8	8.1	6.5-9.0 (6.5-9.0)	no
Temperature	Degrees Celcius	Every 8 days	3	24.2	28	40 (40)	no
Total Iron	Milligrams per litre	Every 8 days	3	0.21	0.43	3 (50)	no
Total Suspended Solids	Milligrams per litre	Every 8 days	3	6	16	50 (500)	no
Total Zinc	Milligrams per litre	Every 8 days	3	<0.05	<0.05	3 (3)	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous*	512053	699742		
Comment:* A corroded connection resulted in no flow monitoring during the period 6/3/17 to 13/3/17.							



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.	2	<0.02	0.036	0.20 (0.00)	no
pH		6/yr. Min 50 days apart.	2	7	7.8	6.5-9.0 (0.0-0.0)	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	576	10123		
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	267	5625		
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	1218		
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	1	<5	<5	20.0000	no
pH		24/year. Min 15 days apart	1	8	8	6.5-9.0	no
Temperature	Degrees Celcius	24/year. Min 15 days apart	1	24	24	35.00	no
Total Suspended Solids	Milligrams per litre	24/year. Min 15 days apart	1	20	20	50.00	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	31574	43002		
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	3	<0.06	<0.06	10.0 (10.0)	no
Cyanide	Milligrams per litre	Every 8 days	3	<0.02	<0.02	0.30 (0.30)	no
Filtrable Iron	Milligrams per litre	Every 8 days	3	<0.01	0.02	1.5 (1.5)	no
Lead	Milligrams per litre	Every 8 days	3	<0.02	0.04	0.5 (0.5)	no
Mercury	Micrograms per litre	Every 8 days	3	<0.5	<0.5	1.5 (1.5)	no
pH		Every 8 days	3	8	8.2	6.5-11.0 (6.5-11.0)	no
Temperature	Degrees Celcius	Every 8 days	3	23	23.5	40 (40)	no
Total Iron	Milligrams per litre	Every 8 days	3	0.34	8.3	7 (100)	no*
Total Suspended Solids	Milligrams per litre	Every 8 days	3	18	56	70 (500)	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	814	1954		
Comment: * Wet weather conditions apply							



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	4	<0.06	1	7.5 (7.5)	no
Cyanide	Milligrams per litre	Every 8 days	4	<0.02	<0.02	0.30 (0.30)	no
Oil and Grease	Milligrams per litre	Every 8 days	4	<5	<5	20 (50)	no
pH		Every 8 days	4	7.9	8	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	4	22	23	40 (40)	no
Total Suspended Solids	Milligrams per litre	Every 8 days	4	16	29	100 (200)	no
Total Zinc	Milligrams per litre	Every 8 days	4	<0.05	0.09	3 (3)	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	85652	279751		
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	Daily during any discharge	1	0.53	0.53	7.0 (7.0)	no
Copper	Milligrams per litre	Daily during any discharge	1	0.02	0.02	1.000	no
Cyanide	Milligrams per litre	Daily during any discharge	1	<0.02	<0.02	0.20 (0.20)	no
Filtrable Iron	Milligrams per litre	Daily during any discharge	1	<0.01	<0.01	0.5 (0.5)	no
Fluoride	Milligrams per litre	Daily during any discharge	1	0.9	0.9	50 (50)	no
pH		Daily during any discharge	1	7.9	7.9	6.5-9.0 (6.5-9.0)	no
Temperature	Degrees Celcius	Daily during any discharge	1	24	24	45 (45)	no
Total Iron	Milligrams per litre	Daily during any discharge	1	20	20	7 (20)	no*
Total Suspended Solids	Milligrams per litre	Daily during any discharge	1	184	184	100 (200)	no*
Total Zinc	Milligrams per litre	Daily during any discharge	1	0.64	0.64	3 (3)	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	0	24434		
Comment: * Wet weather conditions apply							



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	7.6	7.6	7.60	7.6
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	22.5	22.5	22.50	22.5
Comment:							