



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 Nov 2021 to 30 Nov 2021

Monthly (November 2021) Report Published: 21, February, 2022

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	0.00018	0.00018	0.10000	no
Carbon Dioxide	Percent	Yearly	5	18	19		no
Carbon Monoxide (7% Oxygen correction)	Milligrams per cubic metre	Yearly	5	<3	17	400.00	no
Dry Gas Density	Kilograms per cubic metre	Yearly	9	1.39	1.39		no
Mercury (7% Oxygen correction)	Milligrams per cubic metre	Yearly	1	0.0078	0.0078	0.10000	no
Moisture	Percent	Yearly	9	11	13		no
Molecular Weight of stack gases	grams per gram mole	Yearly	9	31.2	31.2		no
Nitrogen Oxides (7% Oxygen correction)	Milligrams per cubic metre	Yearly	5	159	172	600.00	no
Oxygen (O2)	Percent	Yearly	5	4.5	4.8		no
Solid Particles (7% Oxygen corrected)	Milligrams per cubic metre	Yearly	1	3.4	3.4	30.00	no
Sulphur Dioxide (7% Oxygen correction)	Milligrams per cubic metre	Yearly	6	280	348	1,250.00	no
Temperature	Degrees Celcius	Yearly	9	156	166		no
Type 1 and 2 substances in aggregate (7% Oxygen correction)	Milligrams per cubic metre	Yearly	1	0.027	0.027	1.0000	no
Velocity	Metres per second	Yearly	9	9.9	10		no
Volumetric flowrate	Cubic metres per second	Yearly	9	58	61		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) *
Dioxins & Furans (15.7% Oxygen correction)	Nanograms per cubic metre	Quarterly in duplicate	2	0.0098	0.016	0.300000	no
Dry Gas Density	Kilograms per cubic metre	Quarterly in duplicate	2	1.32	1.32		no
Moisture	Percent	Quarterly in duplicate	2	7.3	7.9		no
Molecular Weight of stack gases	grams per gram mole	Quarterly in duplicate	2	29.5	29.5		no
Temperature	Degrees Celcius	Quarterly in duplicate	2	135	135		no
Velocity	Metres per second	Quarterly in duplicate	2	16	16		no
Volumetric flowrate	Cubic metres per second	Quarterly in duplicate	2	340	340		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	10	1.29	1.29		no
Hydrogen Sulphide	Grams per second	Quarterly	1	0.28	0.28	1.20	no
Moisture	Percent	Quarterly	10	3.5	6.2		no
Molecular Weight of stack gases	grams per gram mole	Quarterly	10	28.9	28.9		no
Temperature	Degrees Celcius	Quarterly	10	27	37		no
Velocity	Metres per second	Quarterly	10	1.9	2.4		no
Volumetric flowrate	Cubic metres per second	Quarterly	11	21	26		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	0.5	3.1	2.9	20.8
Comment: Elevated results associated with plant shutdown and startup							

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	0.4	7.4	7.3	42.3
Comment: Elevated results associated with plant shutdown and startup							



Ambient Air Monitoring Requirements

EPL6092 Condition M2.2/M2.3/O4.12, O4.13 and O4.14

O4.12

Pollutant	Monitoring frequency required by licence	No of significant emissions measured during month	100 Percentile Limit	Exceedance (yes/no) *
Emission - BOS Roof Emission DER 5	Monthly	0	4	no
Comment:				

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	<0.01	0.096	0.12	0.13
Fine Particulates	Micrograms per cubic metre	Continuous	Continuous	5	19	18	36
Iron	Micrograms per cubic metre	Every 6 days	5	0.26	4.8	5.4	8.0
Lead	Micrograms per cubic metre	Every 6 days	5	<0.055	<0.055	0.03	<0.056
Particulates - Deposited Matter	Grams per square metre per month	Monthly	1	1.5	1.5	1.50	1.5
Polycyclic aromatic hydrocarbons	Nanograms per cubic metre	24 hour period every 6 days.	5	0.62	2.4	2.7	3.3
Total suspended particles	Micrograms per cubic metre	Every 6 days	5	7.9	58	69	80
Zinc	Micrograms per cubic metre	Every 6 days	5	<0.11	<0.11	0.06	0.25

Comment:

On 13/11/21 the EHL sampler ran only 9 hours then stopped resulting in lower Benzene values for the day



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

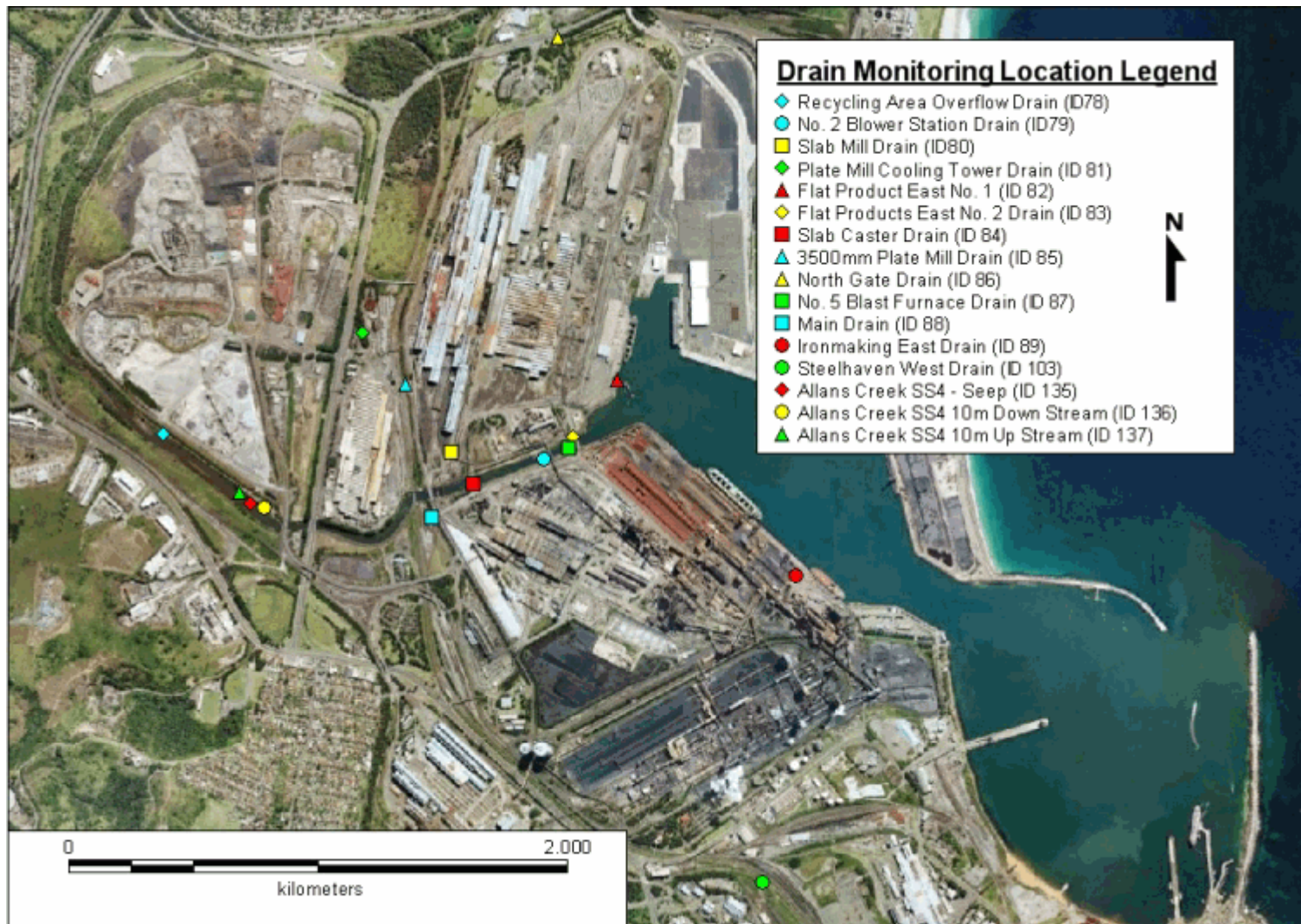
Pollutant	Units of Measure	Monitoring frequency required by licence	No. of times measured during month	Min. Value	Mean Value	Median Value	Max. Value
Benzene	Parts per billion	Every 6 days	5	0.017	0.050	0.054	0.071
Fine Particulates	Micrograms per cubic metre	Continuous	Continuous	3	18	18	38
Iron	Micrograms per cubic metre	Every 6 days	5	0.59	1.9	1.5	4.7
Lead	Micrograms per cubic metre	Every 6 days	5	<0.055	<0.055	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	0.61	0.86	0.72	1.6
Total suspended particles	Micrograms per cubic metre	Every 6 days	5	9.4	45	42	93
Zinc	Micrograms per cubic metre	Every 6 days	5	<0.11	<0.11	0.06	0.21
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	0.68	1.3	0.74	3.1
Lead	Micrograms per cubic metre	Every 6 days	5	<0.055	<0.055	0.03	<0.056
Total suspended particles	Micrograms per cubic metre	Every 6 days	5	14	38	31	74
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
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	23.667	0.00	376
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	6	<0.06	0.2	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	<0.013	0.03	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	8.1	6.5-9.0 (6.5-9.0)	no
Temperature	Degrees Celcius	Every 8 days	5	21	26	40 (40)	no
Total Iron	Milligrams per litre	Every 8 days	5	0.11	0.27	3 (50)	no
Total Suspended Solids	Milligrams per litre	Every 8 days	5	<3	<3	50 (500)	no
Total Zinc	Milligrams per litre	Every 8 days	5	<0.125	<0.125	3 (3)	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	607362	802469		
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	707	5767		
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) *
Cyanide	Milligrams per litre	Quarterly grab sample . Min 80 days apart	1	<0.02	<0.02	0.30 (0.00)	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	177	2947		
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) *
Cyanide	Milligrams per litre	Quarterly grab sample . Min 80 days apart	1	<0.02	<0.02	0.15 (0.00)	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	0	510		
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	8.1	8.1	6.5-9.0	no
Temperature	Degrees Celcius	24/year. Min 15 days apart	2	19	19	35.00	no
Total Suspended Solids	Milligrams per litre	24/year. Min 15 days apart	2	<3	3	50.00	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	34897	37718		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	<0.013	0.18	1.5 (1.5)	no
Lead	Milligrams per litre	Every 8 days	4	<0.003	0.005	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	7.9	8.1	6.5-11.0 (6.5-11.0)	no
Temperature	Degrees Celcius	Every 8 days	4	18	19	40 (40)	no
Total Iron	Milligrams per litre	Every 8 days	4	0.25	1.4	7 (100)	no
Total Suspended Solids	Milligrams per litre	Every 8 days	4	<3	3	70 (500)	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	1890	2133		
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	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	8.1	6.5-9.0 (6.5-9.0)	no
Temperature	Degrees Celcius	24/year. Min 15 days apart	2	18	19	40 (40)	no
Total Suspended Solids	Milligrams per litre	24/year. Min 15 days apart	2	4	8	100 (200)	no
Total Zinc	Milligrams per litre	24/year. Min 15 days apart	2	<0.125	<0.125	3 (3)	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	27643	82644		
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	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
Fluoride	Milligrams per litre	Special frequency 11	0			50 (50)	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		
Comment:							