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PO Box 1854  
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**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 2014 to 31 Jul 2014**

## Stack Air Monitoring Requirements

EPL6092 Conditions 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	0.00026	0.00027		no
Cadmium	Milligrams per cubic metre	Quarterly in duplicate	2	0.00035	0.00036		no
Carbon Dioxide	Percent	Quarterly in duplicate	22	3.700	6.400		no
Dioxins & Furans (15.7% Oxygen correction)	Nanograms per cubic metre	Quarterly in duplicate	2	0.004000	0.005100	0.300000	no
Dry Gas Density	Kilograms per cubic metre	Quarterly in duplicate	34	1.29	1.34		no
Fine Particulates	Milligrams per cubic metre	Quarterly in duplicate	2	1.80	2.10		no
Hydrogen Chloride	Milligrams per cubic metre	Quarterly in duplicate	2	12.00	21.00		no
Hydrogen Fluoride	Milligrams per cubic metre	Quarterly in duplicate	2	2.2000	2.5000		no
Lead	Milligrams per cubic metre	Quarterly in duplicate	2	0.0098	0.0100		no
Manganese	Milligrams per cubic metre	Quarterly in duplicate	2	0.0015	0.0029		no
Moisture	Percent	Quarterly in duplicate	34	10.00	12.00		no
Molecular Weight of stack gases	grams per gram mole	Quarterly in duplicate	34	29.00	30.00		no
Nickel	Milligrams per cubic metre	Quarterly in duplicate	2	0.00031	0.00070		no
Nitrogen Oxides	Milligrams per cubic metre	Quarterly	22	209.00	337.00	2,000.00	no
Oxygen (O2)	Percent	Quarterly in duplicate	22	16.00	18.00		no
Solid Particles	Milligrams per cubic metre	Quarterly in duplicate	2	3.00	5.10	20.00	no
Sulfuric acid mist and sulphur trioxide (as SO3)	Milligrams per cubic metre	Quarterly in duplicate	2	1.80	1.80	100.00	no
Sulphur Dioxide - UV	Milligrams per cubic metre	Quarterly	22	42.00	63.00	1,000.00	no
Temperature	Degrees Celcius	Quarterly in duplicate	34	142.00	145.00		no
Velocity	Metres per second	Quarterly in duplicate	34	15.00	17.00		no
Volumetric flowrate	Cubic metres per second	Quarterly in duplicate	34	290.00	330.00		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	6	1.29	1.29		no
Hydrogen Sulphide	Grams per second	Quarterly	1	0.84	0.84	1.20	no
Moisture	Percent	Quarterly	6	2.30	11.00		no
Molecular Weight of stack gases	grams per gram mole	Quarterly	6	28.90	28.90		no
Temperature	Degrees Celcius	Quarterly	6	20.00	48.00		no
Velocity	Metres per second	Quarterly	6	1.80	4.10		no
Volumetric flowrate	Cubic metres per second	Quarterly	7	21.00	39.00		no

Comment:



**O4.12:**

**Meter 1**

Pollutant	Units of Measure	Monitoring frequency required by licence	No. of times measured during month	Min. Value	Mean Value	Median Value	Max. Value
Opacity	%	Daily	Continuous	1	11.4	12	78
<b>Comment:</b>							

**Meter 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	%	Daily	Continuous	1	24.1	22	93
<b>Comment:</b>							

**O4.13**

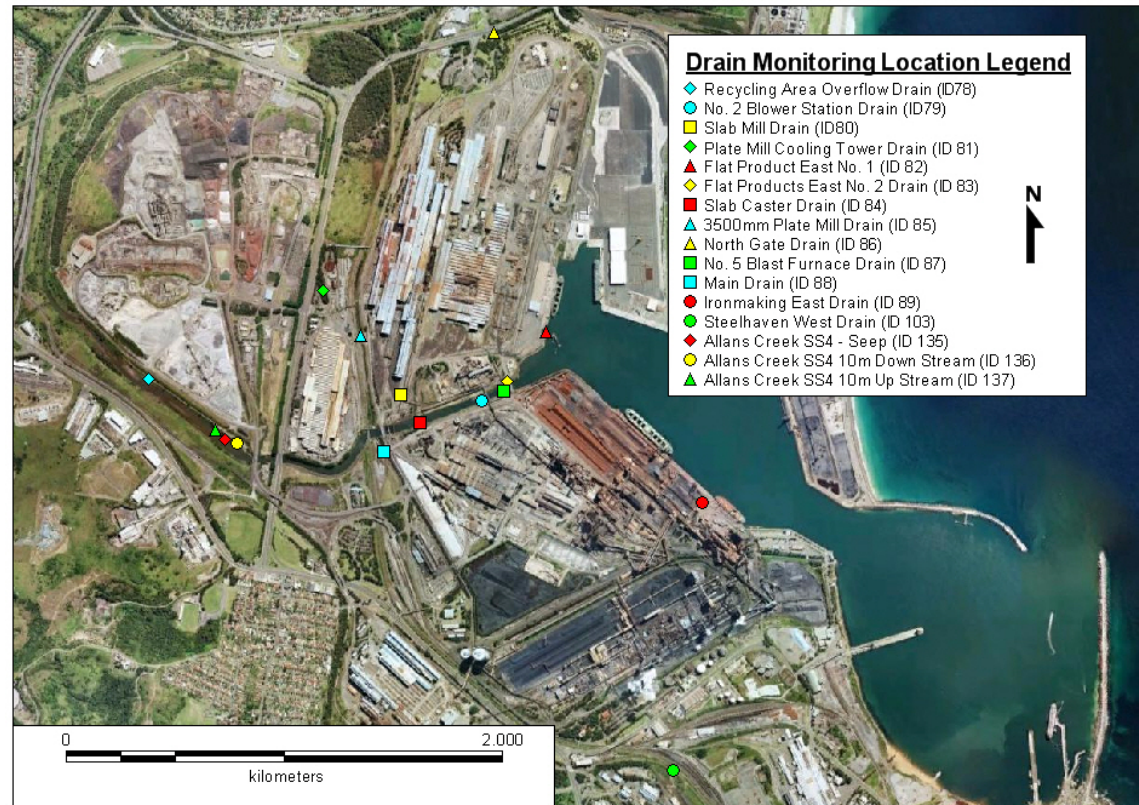
Pollutant	Monitoring frequency required by licence	No of significant emissions measured during month	100 Percentile Limit	Exceedance (yes/no) *
Emission - KISH Tipping DER 5	Monthly	0	4	no
<b>Comment:</b>				

**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>3	Monthly	0	4	no
<b>Comment:</b>				

## 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
<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	4	<0.0600	<0.0600	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	<0.0100	<0.0100	0.3 (0.3)	no
Oil and Grease	Milligrams per litre	Every 8 days	4	<5.0000	<5.0000	20 (50)	no
pH		Every 8 days	4	8.10	8.20	6.5-9.0 (6.5-9.0)	no
Temperature	Degrees Celcius	Every 8 days	4	20.90	22.90	40 (40)	no
Total Iron	Milligrams per litre	Every 8 days	4	0.0690	0.1650	3 (50)	no
Total Suspended Solids	Milligrams per litre	Every 8 days	4	<3.0	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	508,593.00	675,523.00		
<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) *
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	2,345.00	3,833.00		
<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) *
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	0.00	0.00		
<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) *
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	0.00	0.00		
<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	3	<5.0000	<5.0000	20.0000	no
pH		24/year. Min 15 days apart	3	8.10	8.20	6.5-9.0	no
Temperature	Degrees Celcius	24/year. Min 15 days apart	3	18.90	18.90	35.00	no
Total Suspended Solids	Milligrams per litre	24/year. Min 15 days apart	3	<3.00	3.60	50.00	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	28,145.00	29,220.00		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	<0.0600	<0.0600	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	<0.0100	<0.0100	1.5 (1.5)	no
Lead	Milligrams per litre	Every 8 days	4	<0.020	<0.020	0.5 (0.5)	no
Mercury	Micrograms per litre	Every 8 days	4	<0.50	<0.50	1.5 (1.5)	no
pH		Every 8 days	4	8.20	8.20	6.5-11.0 (6.5-11.0)	no
Temperature	Degrees Celcius	Every 8 days	4	16.90	17.90	40 (40)	no
Total Iron	Milligrams per litre	Every 8 days	4	0.0630	0.1660	7 (100)	no
Total Suspended Solids	Milligrams per litre	Every 8 days	4	<3.00	9.60	70 (500)	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	2,096.00	2,210.00		
<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	Every 8 days	4	<0.0600	<0.0600	7.5 (7.5)	no
Ammonia	Tonnes per day	Every 8 days	4	0.0	0.0	1.200	no
Cyanide	Kilograms per day	Every 8 days	4	0.0	0.0	27.00	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	<5.0000	<5.0000	20 (50)	no
Oil and Grease	Tonnes per day	Every 8 days	4	0.0	0.0	2.50	no
pH		Every 8 days	4	8.10	8.20	6.5-9.0 (6.5-9.0)	no
Phenol	Kilograms per day	Every 8 days	4	0.0	0.0	35.00	no
Phenol	Milligrams per litre	Every 8 days	4	<0.2	<0.2	0.45 (0.45)	no
Temperature	Degrees Celcius	Every 8 days	4	20.90	25.90	40 (40)	no
Total Suspended Solids	Milligrams per litre	Every 8 days	4	5.20	9.60	100 (200)	no
Total Suspended Solids	Tonnes per day	Every 8 days	4	0.64	1.58	12.00	no
Total Zinc	Kilograms per day	Every 8 days	4	0.0	0.0	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	121,010.00	166,523.00		
<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	Every 8 days	9	<0.0600	0.5400	7.0 (7.0)	no
Cyanide	Milligrams per litre	Every 8 days	9	<0.02	0.2800	0.20 (0.20)	yes*
Filtrable Iron	Milligrams per litre	Every 8 days	9	<0.0100	0.0640	0.5 (0.5)	no
Fluoride	Milligrams per litre	Every 8 days	9	1.10	2.40	50 (50)	no
pH		Every 8 days	9	8.20	8.60	6.5-9.0 (6.5-9.0)	no
Temperature	Degrees Celcius	Every 8 days	9	16.90	18.90	45 (45)	no
Total Iron	Milligrams per litre	Every 8 days	9	0.1700	2.7800	7 (20)	no
Total Suspended Solids	Milligrams per litre	Every 8 days	9	<3.00	25.00	100 (200)	no
Total Zinc	Milligrams per litre	Every 8 days	9	<0.0500	0.1700	3 (3)	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	9,790.00	21,047.00		
<b>Comment: * One sample above the licence limit.</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	<0.0600	0.0300	0.0300	<0.0600
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	8.40	8.40	8.40	8.40
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	17.90	17.90	17.90	17.90
<b>Comment:</b>							