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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 Feb 2023 to 28 Feb 2023**

Monthly (February 2023) Report Published: 5, May, 2023

# 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 (years / no) *
Arsenic	Milligrams per cubic metre	Quarterly in duplicate	1	0.00053	0.00053		no
Cadmium	Milligrams per cubic metre	Quarterly in duplicate	1	0.00095	0.00095		no
Dry Gas Density	Kilograms per cubic metre	Quarterly in duplicate	3	1.34	1.34		no
Fine Particulates	Milligrams per cubic metre	Quarterly in duplicate	1	3.1	3.1		no
Lead	Milligrams per cubic metre	Quarterly in duplicate	1	0.036	0.036		no
Manganese	Milligrams per cubic metre	Quarterly in duplicate	1	0.016	0.016		no
Moisture	Percent	Quarterly in duplicate	3	9.7	9.8		no
Molecular Weight of stack gases	grams per gram mole	Quarterly in duplicate	3	30.1	30.1		no
Nickel	Milligrams per cubic metre	Quarterly in duplicate	1	0.0001	0.0001		no
Solid Particles	Milligrams per cubic metre	Quarterly in duplicate	1	3.9	3.9	20.00	no
Temperature	Degrees Celcius	Quarterly in duplicate	3	138	138		no
Velocity	Metres per second	Quarterly in duplicate	3	16	16		no
Volumetric flowrate	Cubic metres per second	Quarterly in duplicate	3	320	330		no
<b>Comment:</b>							



**Point 120:**

Pollutant	Units of Measure	Monitoring frequency required by licence	No. of times measured during month	Min. Value	Max Value	100 Percentile Limit	Exceedance (years / no) *
Carbon Dioxide	Percent	Yearly	1	4.6	4.6		no
Carbon Monoxide (7% Oxygen correction)	Milligrams per cubic metre	Yearly	1	<3	<3	400.00	no
Dry Gas Density	Kilograms per cubic metre	Yearly	1	1.33	1.33		no
Moisture	Percent	Yearly	1	11	11		no
Molecular Weight of stack gases	grams per gram mole	Yearly	1	29.7	29.7		no
Nitrogen Oxides (7% Oxygen correction)	Milligrams per cubic metre	Yearly	1	538	538	650.00	no
Oxygen (O2)	Percent	Yearly	1	11	11		no
Sulphur Dioxide (7% Oxygen correction)	Milligrams per cubic metre	Yearly	1	652	652	1,250.00	no
Temperature	Degrees Celcius	Yearly	1	232	232		no
Velocity	Metres per second	Yearly	1	13	13		no
Volumetric flowrate	Cubic metres per second	Yearly	1	46	46		no
<b>Comment:</b>							



**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	2.2	2	39
<b>Comment:</b> 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	5	5	29.1
<b>Comment:</b> 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
<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 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	4	0.052	0.11	0.10	0.17
Fine Particulates	Micrograms per cubic metre	Continuous	Continuous	9	22	18	45
Iron	Micrograms per cubic metre	Every 6 days	4	1.1	5.0	4.6	9.7
Lead	Micrograms per cubic metre	Every 6 days	4	<0.056	<0.056	0.03	<0.057
Particulates - Deposited Matter	Grams per square metre per month	Monthly	1	1.9	1.9	1.90	1.9
Polycyclic aromatic hydrocarbons	Nanograms per cubic metre	24 hour period every 6 days.	4	0.67	3.9	2.5	9.9
Total suspended particles	Micrograms per cubic metre	Every 6 days	4	46	71	64	110
Zinc	Micrograms per cubic metre	Every 6 days	4	<0.11	<0.11	0.06	0.14
<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	4	0.034	0.064	0.062	0.1
Fine Particulates	Micrograms per cubic metre	Continuous	Continuous	11	23	25	39
Iron	Micrograms per cubic metre	Every 6 days	4	1.5	3.4	2.4	7.5
Lead	Micrograms per cubic metre	Every 6 days	4	<0.055	<0.055	0.03	<0.057
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.	4	0.71	1.4	1.1	2.6
Total suspended particles	Micrograms per cubic metre	Every 6 days	4	52	74	73	100
Zinc	Micrograms per cubic metre	Every 6 days	4	<0.11	0.14	0.06	0.4
<b>Comment:</b>							

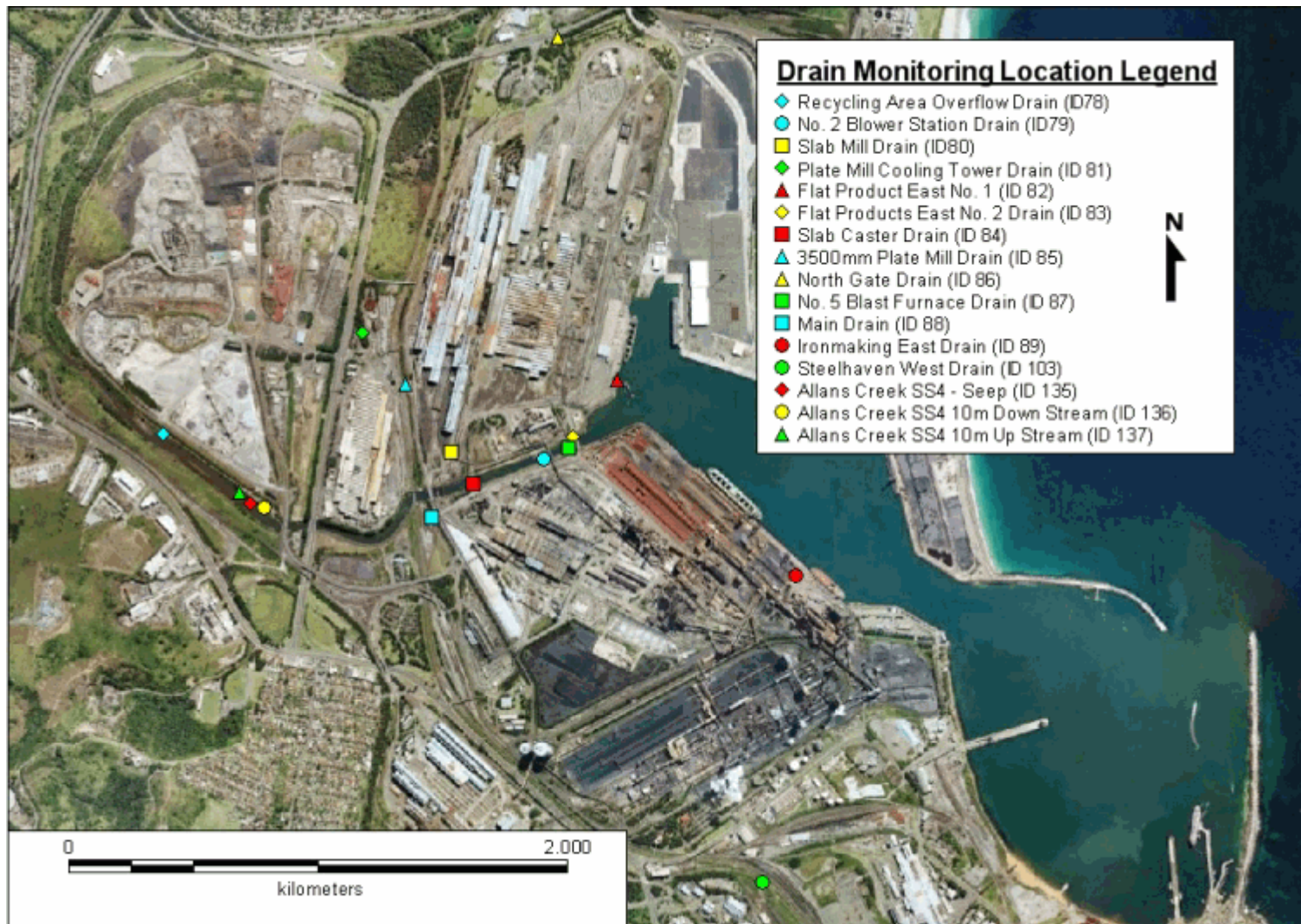
**Point 153: Receiver 3 (located west of licensed site)**

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	1.1	1.6	1.8	1.9
Lead	Micrograms per cubic metre	Every 6 days	4	<0.056	<0.056	0.03	<0.057
Total suspended particles	Micrograms per cubic metre	Every 6 days	4	47	48	48	50
Zinc	Micrograms per cubic metre	Every 6 days	4	<0.11	<0.11	0.06	0.12
<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	1	11	11	11	11
Total Suspended Solids	Milligrams per litre	Daily during any discharge which is not due to Wet Weather Conditions	1	124	124	124	124
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	0	46.5	0.00	1267
<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 (ye s / 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	<0.013	<0.013	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	29.7	30.7	40 (40)	no
Total Iron	Milligrams per litre	Every 8 days	3	0.14	0.48	3 (50)	no
Total Suspended Solids	Milligrams per litre	Every 8 days	3	<3	8	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	536696	801227		
<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 (years / no) *
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	421	7871		
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 (years / no) *
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	207	2211		
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 (years / no) *
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	0	568		
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 (years / 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	26.2	26.2	35.00	no
Total Suspended Solids	Milligrams per litre	24/year. Min 15 days apart	2	<3	5	50.00	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	31838	41448		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 (years / 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	<0.013	<0.013	1.5 (1.5)	no
Lead	Milligrams per litre	Every 8 days	3	<0.02	<0.02	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	8.1	8.2	6.5-11.0 (6.5-11.0)	no
Temperature	Degrees Celcius	Every 8 days	3	24.2	25.7	40 (40)	no
Total Iron	Milligrams per litre	Every 8 days	3	0.16	0.49	7 (100)	no
Total Suspended Solids	Milligrams per litre	Every 8 days	3	<3	9	70 (500)	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	2018	2522		
<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 (years / 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	8.1	6.5-9.0 (6.5-9.0)	no
Temperature	Degrees Celcius	24/year. Min 15 days apart	2	24.7	26.7	40 (40)	no
Total Suspended Solids	Milligrams per litre	24/year. Min 15 days apart	2	4	6	100 (200)	no
Total Zinc	Milligrams per litre	24/year. Min 15 days apart	2	<0.05	0.06	3 (3)	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	25429	132591		
<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 (years / no) *
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	0	2736		
<b>Comment:</b>							