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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 Jan 2022 to 31 Jan 2022**

Monthly (January 2022) Report Published: 8, July, 2022

# 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	2	0.00039	0.00046		no
Cadmium	Milligrams per cubic metre	Quarterly in duplicate	2	0.0006	0.00067		no
Carbon Dioxide	Percent	Quarterly in duplicate	4	5.1	5.6		no
Dioxins & Furans (15.7% Oxygen correction)	Nanograms per cubic metre	Quarterly in duplicate	2	0.0085	0.011	0.300000	no
Dry Gas Density	Kilograms per cubic metre	Quarterly in duplicate	16	1.32	1.34		no
Fine Particulates	Milligrams per cubic metre	Quarterly in duplicate	2	2.4	5.4		no
Hydrogen Chloride	Milligrams per cubic metre	Quarterly in duplicate	2	22	23		no
Hydrogen Fluoride	Milligrams per cubic metre	Quarterly in duplicate	2	1.8	2.2		no
Lead	Milligrams per cubic metre	Quarterly in duplicate	2	0.037	0.039		no
Manganese	Milligrams per cubic metre	Quarterly in duplicate	2	0.0073	0.0091		no
Moisture	Percent	Quarterly in duplicate	16	7.9	12		no
Molecular Weight of stack gases	grams per gram mole	Quarterly in duplicate	16	29.6	30		no
Nickel	Milligrams per cubic metre	Quarterly in duplicate	2	0.0007	0.00084		no
Nitrogen Oxides	Milligrams per cubic metre	Quarterly	4	256	276	2,000.00	no
Oxygen (O2)	Percent	Quarterly in duplicate	4	17	17		no
Solid Particles	Milligrams per cubic metre	Quarterly in duplicate	2	4.2	5.8	20.00	no
Sulfuric acid mist and sulphur trioxide (as SO3)	Milligrams per cubic metre	Quarterly in duplicate	2	2.9	6.4	100.00	no
Sulphur Dioxide - UV	Milligrams per cubic metre	Quarterly	4	88	173	1,000.00	no
Temperature	Degrees Celcius	Quarterly in duplicate	16	132	140		no
Velocity	Metres per second	Quarterly in duplicate	16	16	20		no
Volumetric flowrate	Cubic metres per second	Quarterly in duplicate	16	330	390		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	1.2	3.6	3.4	15.2
<b>Comment:</b>							

**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	0.1	6.9	6.6	32.9
<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	0.021	0.21	0.055	0.71
Fine Particulates	Micrograms per cubic metre	Continuous	Continuous	18	32	20	51
Iron	Micrograms per cubic metre	Every 6 days	5	0.67	3.22	1.10	7.5
Lead	Micrograms per cubic metre	Every 6 days	5	<0.055	<0.055	0.03	<0.057
Particulates - Deposited Matter	Grams per square metre per month	Monthly	1	3.2	3.2	3.20	3.2
Polycyclic aromatic hydrocarbons	Nanograms per cubic metre	24 hour period every 6 days.	5	0.61	4.65	0.62	19
Total suspended particles	Micrograms per cubic metre	Every 6 days	5	22	50	31	94
Type 1 and Type 2 substances in aggregate	Micrograms per cubic metre	Quarterly	1	0.024	0.024	0.02	0.024
Zinc	Micrograms per cubic metre	Every 6 days	5	<0.11	<0.11	0.06	<0.11
<b>Comment:</b> VOC results for 18/1/22 not available due to sampler/pump timer issue.							



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

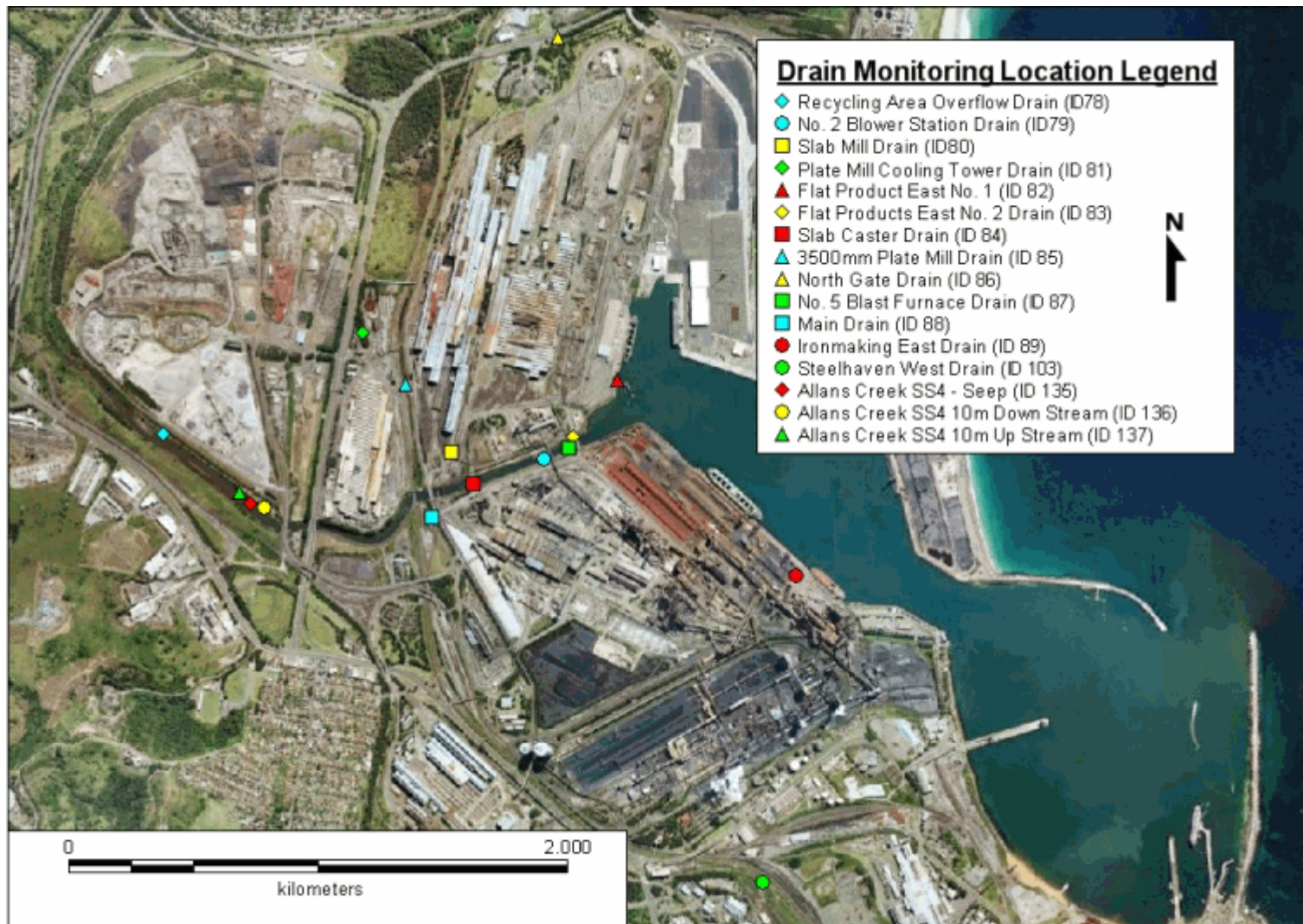
Pollutant	Units of Measure	Monitoring frequency required by licence	No. of times measured during month	Min. Value	Mean Value	Median Value	Max. Value
5	Parts per billion	Every 6 days		0.021	0.038	0.036	0.056
Fine Particulates	Micrograms per cubic metre	Continuous	Continuous	16	51	24	290
Iron	Micrograms per cubic metre	Every 6 days	5	0.33	1.47	1.50	3
Lead	Micrograms per cubic metre	Every 6 days	5	<0.055	<0.055	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.	5	0.69	0.84	0.75	1.2
Total suspended particles	Micrograms per cubic metre	Every 6 days	5	29	43	39	58
Type 1 and Type 2 substances in aggregate	Micrograms per cubic metre	Quarterly	1	0.12	0.12	0.12	0.12
Zinc	Micrograms per cubic metre	Every 6 days	5	<0.11	0.11	0.06	0.24
<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	5	0.42	1.5	1.1	3.3
Lead	Micrograms per cubic metre	Every 6 days	5	<0.055	<0.055	0.03	<0.057
Total suspended particles	Micrograms per cubic metre	Every 6 days	5	32	45	39	65
Type 1 and Type 2 substances in aggregate	Micrograms per cubic metre	Quarterly	1	0.087	0.087	0.09	0.087
Zinc	Micrograms per cubic metre	Every 6 days	5	<0.11	<0.11	0.06	<0.11
<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
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	0	39.419	0.00	355
<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 (years / no) *
Ammonia	Milligrams per litre	Every 8 days	5	<0.06	0.11	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	0.016	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	7.9	8.2	6.5-9.0 (6.5-9.0)	no
Temperature	Degrees Celcius	Every 8 days	5	27	30	40 (40)	no
Total Iron	Milligrams per litre	Every 8 days	5	0.12	0.28	3 (50)	no
Total Suspended Solids	Milligrams per litre	Every 8 days	5	<3	5	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	586435	678658		
<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	1174	7141		
<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 (years / no) *
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	146	3185		
<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 (years / no) *
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	0	682		
<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 (years / 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	6	6	50.00	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	18128	36977		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	0.035	1.5 (1.5)	no
Lead	Milligrams per litre	Every 8 days	3	<0.003	<0.003	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	22	23	40 (40)	no
Total Iron	Milligrams per litre	Every 8 days	3	0.092	0.37	7 (100)	no
Total Suspended Solids	Milligrams per litre	Every 8 days	3	<3	5	70 (500)	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	2064	2451		
<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	1	<0.06	<0.06	7.5 (7.5)	no
Cyanide	Milligrams per litre	24/year. Min 15 days apart	1	<0.02	<0.02	0.30 (0.30)	no
Oil and Grease	Milligrams per litre	24/year. Min 15 days apart	1	<5	<5	20 (50)	no
pH		24/year. Min 15 days apart	1	7.7	7.7	6.5-9.0 (6.5-9.0)	no
Temperature	Degrees Celcius	24/year. Min 15 days apart	1	22.5	22.5	40 (40)	no
Total Suspended Solids	Milligrams per litre	24/year. Min 15 days apart	1	7	7	100 (200)	no
Total Zinc	Milligrams per litre	24/year. Min 15 days apart	1	<0.125	<0.125	3 (3)	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	25479	89522		
<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	0		
<b>Comment:</b>							