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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

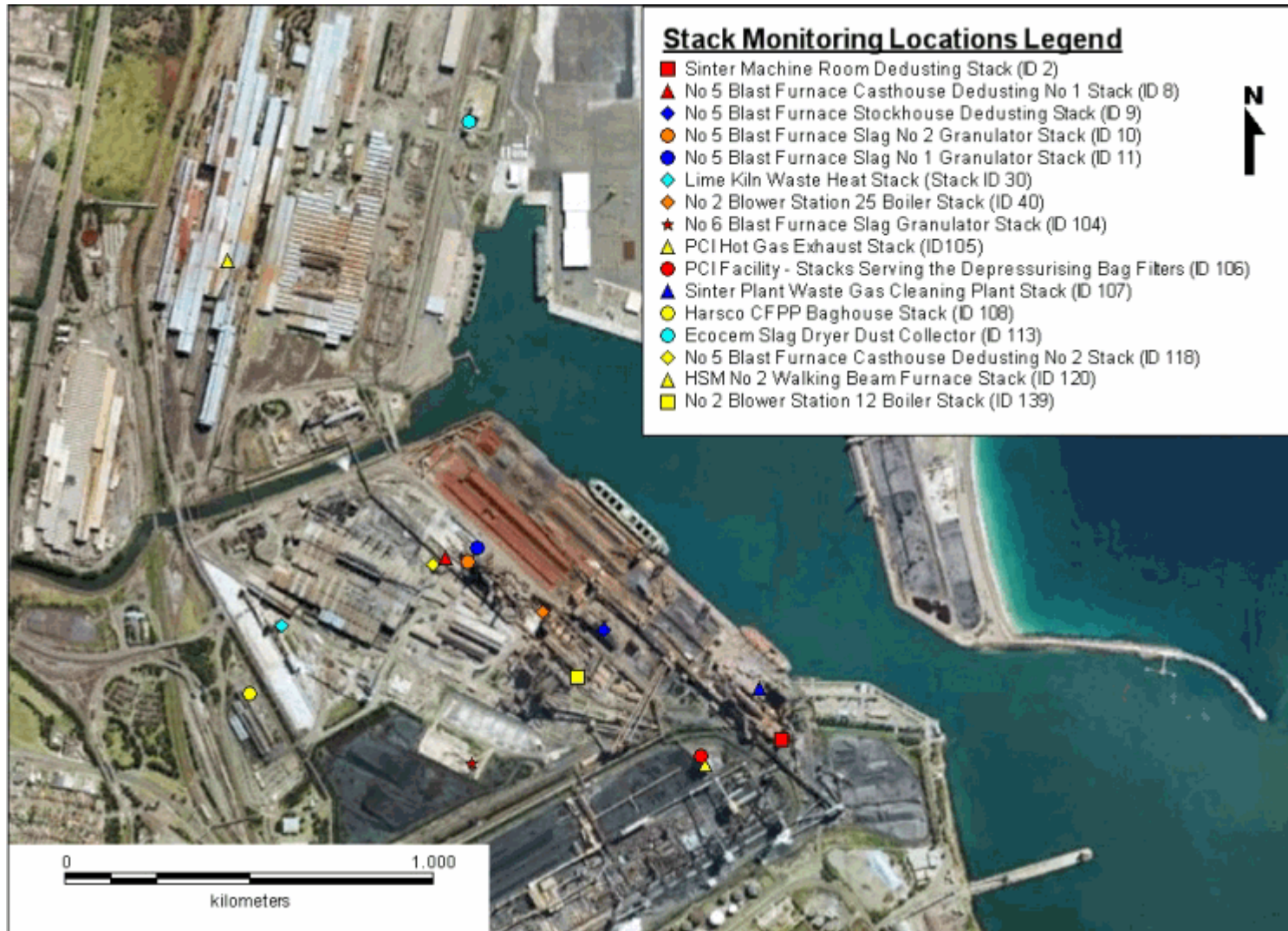
**1 Oct 2021 to 31 Oct 2021**

Monthly (October 2021) Report Published: 14, February, 2022

Date Obtained: 10/02/2022

# Stack Air Monitoring Requirements

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





**Point 2:**

Pollutant	Units of Measure	Monitoring frequency required by licence	No. of times measured during month	Min. Value	Max Value	100 Percentile Limit	Exceedance (ye s / no) *
Solid Particles	Milligrams per cubic metre	Quarterly	1	5.4	5.4	50.00	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	2	3.2	3	7.7
Comment:							

**Point 30:**

Pollutant	Units of Measure	Monitoring frequency required by licence	No. of times measured during month	Min. Value	Max Value	100 Percentile Limit	Exceedance (ye s / no) *
Solid Particles	Milligrams per cubic metre	Yearly	1	<1	<1	50.00	no
Comment:							

**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	1.6	6.5	6.1	37
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	Max Value	100 Percentile Limit	Exceedance (years / no) *
Arsenic	Milligrams per cubic metre	Quarterly in duplicate	2	<0.00015	0.00071		no
Cadmium	Milligrams per cubic metre	Quarterly in duplicate	2	0.0028	0.0033		no
Carbon Dioxide	Percent	Quarterly in duplicate	5	4.5	5.8		no
Dry Gas Density	Kilograms per cubic metre	Quarterly in duplicate	15	1.32	1.32		no
Fine Particulates	Milligrams per cubic metre	Quarterly in duplicate	2	2.3	4.1		no
Hydrogen Chloride	Milligrams per cubic metre	Quarterly in duplicate	2	23	25		no
Hydrogen Fluoride	Milligrams per cubic metre	Quarterly in duplicate	2	1.5	1.6		no
Lead	Milligrams per cubic metre	Quarterly in duplicate	2	0.10	0.12		no
Manganese	Milligrams per cubic metre	Quarterly in duplicate	2	0.0048	0.010		no
Moisture	Percent	Quarterly in duplicate	15	8	12		no
Molecular Weight of stack gases	grams per gram mole	Quarterly in duplicate	15	29.5	29.6		no
Nickel	Milligrams per cubic metre	Quarterly in duplicate	2	0.00048	0.00063		no
Nitrogen Oxides	Milligrams per cubic metre	Quarterly	5	237	298	2,000.00	no
Oxygen (O2)	Percent	Quarterly in duplicate	5	16	17		no
Solid Particles	Milligrams per cubic metre	Quarterly in duplicate	3	3.2	4.6	20.00	no
Sulfuric acid mist and sulphur trioxide (as SO3)	Milligrams per cubic metre	Quarterly in duplicate	2	4.0	6.1	100.00	n
Sulphur Dioxide - UV	Milligrams per cubic metre	Quarterly	5	76	86	1,000.00	no
Temperature	Degrees Celcius	Quarterly in duplicate	15	133	136		no
Velocity	Metres per second	Quarterly in duplicate	15	13	17		no
Volumetric flowrate	Cubic metres per second	Quarterly in duplicate	15	270	330		no

**Comment:**



## 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	5	<0.01	0.0146	0.0120	0.027
Fine Particulates	Micrograms per cubic metre	Continuous	Continuous	8	18	15	48
Iron	Micrograms per cubic metre	Every 6 days	5	0.34	2.2	1.8	4.4
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	1.4	1.4	1.40	1.4
Polycyclic aromatic hydrocarbons	Nanograms per cubic metre	24 hour period every 6 days.	5	0.6	2.3	1.2	5.3
Total suspended particles	Micrograms per cubic metre	Every 6 days	5	20	39	31	91
Type 1 and Type 2 substances in aggregate	Micrograms per cubic metre	Quarterly	1	0.052	0.052	0.05	0.052
Zinc	Micrograms per cubic metre	Every 6 days	5	<0.11	<0.11	0.06	0.15
<b>Comment:</b>							



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

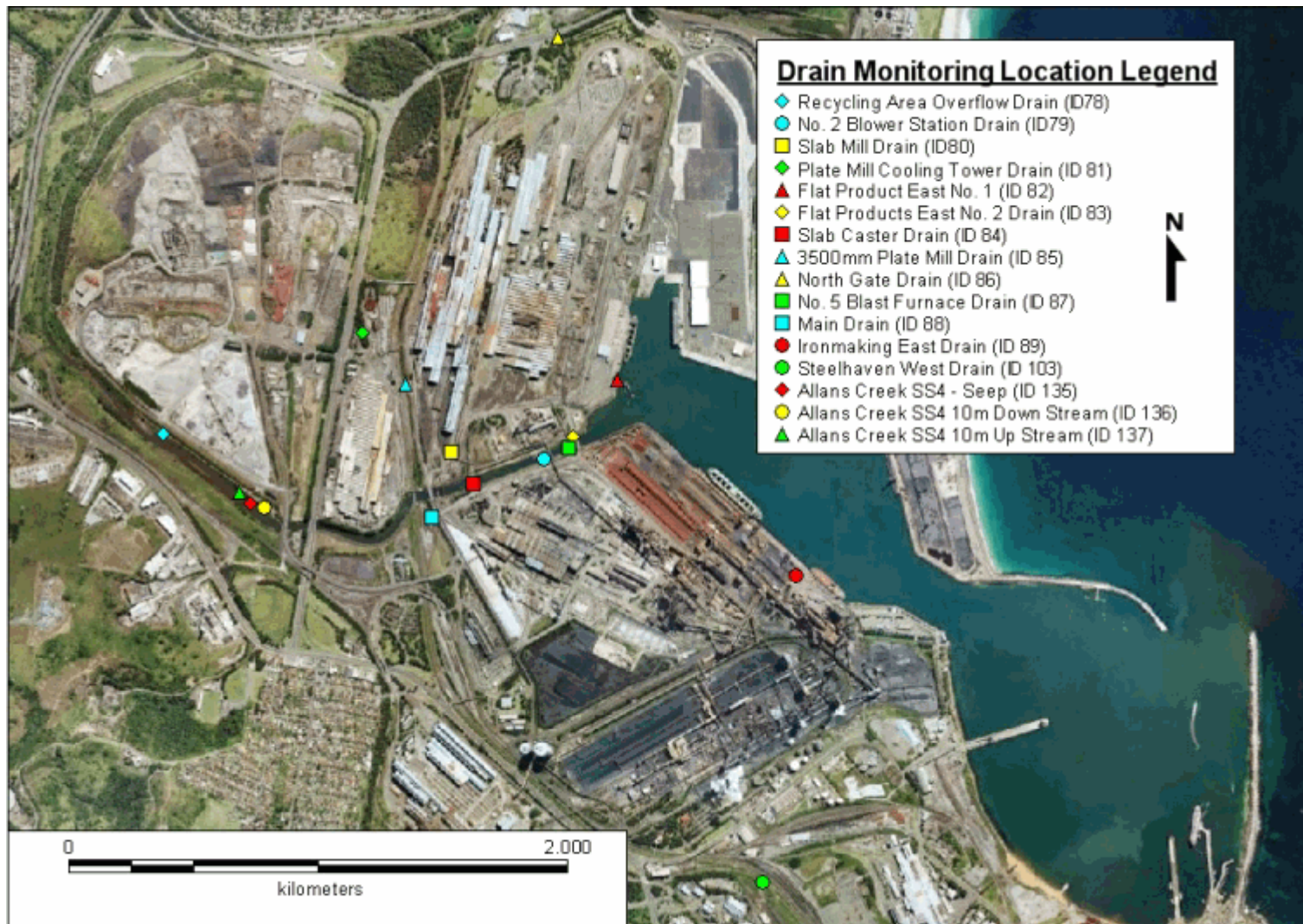
Pollutant	Units of Measure	Monitoring frequency required by licence	No. of times measured during month	Min. Value	Mean Value	Median Value	Max. Value
5	Parts per billion	Every 6 days		<0.01	<0.01	0.005	0.013
Fine Particulates	Micrograms per cubic metre	Continuous	Continuous	8	21	20	46
Iron	Micrograms per cubic metre	Every 6 days	5	0.72	1.7	1.2	3.2
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	1.9	1.9	1.90	1.9
Polycyclic aromatic hydrocarbons	Nanograms per cubic metre	24 hour period every 6 days.	5	0.83	1.0	1.1	1.1
Total suspended particles	Micrograms per cubic metre	Every 6 days	5	19	43	45	66
Type 1 and Type 2 substances in aggregate	Micrograms per cubic metre	Quarterly	1	0.05	0.05	0.05	0.05
Zinc	Micrograms per cubic metre	Every 6 days	5	<0.11	<0.11	0.06	0.22
<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	0.13	1.3	0.95	2.5
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	39	32	72
Type 1 and Type 2 substances in aggregate	Micrograms per cubic metre	Quarterly	1	0.06	0.06	0.06	0.06
Zinc	Micrograms per cubic metre	Every 6 days	5	<0.11	<0.11	0.06	0.13
<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	21	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	9	<0.06	0.08	5.0 (5.0)	no
Cyanide	Milligrams per litre	Every 8 days	9	<0.02	<0.02	0.30 (0.30)	no
Filtrable Iron	Milligrams per litre	Every 8 days	6	<0.013	0.065	0.3 (0.3)	no
Oil and Grease	Milligrams per litre	Every 8 days	6	<5	<5	20 (50)	no
pH		Every 8 days	6	8	8.1	6.5-9.0 (6.5-9.0)	no
Temperature	Degrees Celcius	Every 8 days	6	21	27	40 (40)	no
Total Iron	Milligrams per litre	Every 8 days	6	0.079	0.22	3 (50)	no
Total Suspended Solids	Milligrams per litre	Every 8 days	6	<3	12	50 (500)	no
Total Zinc	Milligrams per litre	Every 8 days	8	<0.05	<0.125	3 (3)	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	550045	697713		
<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) *
Cyanide	Milligrams per litre	6/yr. Min 50 days apart.	1	<0.02	<0.02	0.20 (0.00)	no
pH		6/yr. Min 50 days apart.	1	7.4	7.4	6.5-9.0 (0.0-0.0)	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	390	7400		
<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	251	3713		
<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	692		
<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	3	<5	<5	20.0000	no
pH		24/year. Min 15 days apart	3	8.1	8.1	6.5-9.0	no
Temperature	Degrees Celcius	24/year. Min 15 days apart	3	20	22	35.00	no
Total Suspended Solids	Milligrams per litre	24/year. Min 15 days apart	3	3	5	50.00	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	36194	39614		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	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	0.033	1.5 (1.5)	no
Lead	Milligrams per litre	Every 8 days	4	<0.003	<0.003	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	8.1	8.1	6.5-11.0 (6.5-11.0)	no
Temperature	Degrees Celcius	Every 8 days	4	17	20	40 (40)	no
Total Iron	Milligrams per litre	Every 8 days	4	0.17	0.32	7 (100)	no
Total Suspended Solids	Milligrams per litre	Every 8 days	4	<3	5	70 (500)	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	1873	2148		
<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	3	<0.06	0.39	7.5 (7.5)	no
Cyanide	Milligrams per litre	24/year. Min 15 days apart	3	<0.02	<0.02	0.30 (0.30)	no
Oil and Grease	Milligrams per litre	24/year. Min 15 days apart	3	<5	<5	20 (50)	no
pH		24/year. Min 15 days apart	3	8	8.1	6.5-9.0 (6.5-9.0)	no
Temperature	Degrees Celcius	24/year. Min 15 days apart	3	17.5	21	40 (40)	no
Total Suspended Solids	Milligrams per litre	24/year. Min 15 days apart	3	<3	14	100 (200)	no
Total Zinc	Milligrams per litre	24/year. Min 15 days apart	3	<0.125	<0.125	3 (3)	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	24857	80109		
<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>							