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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

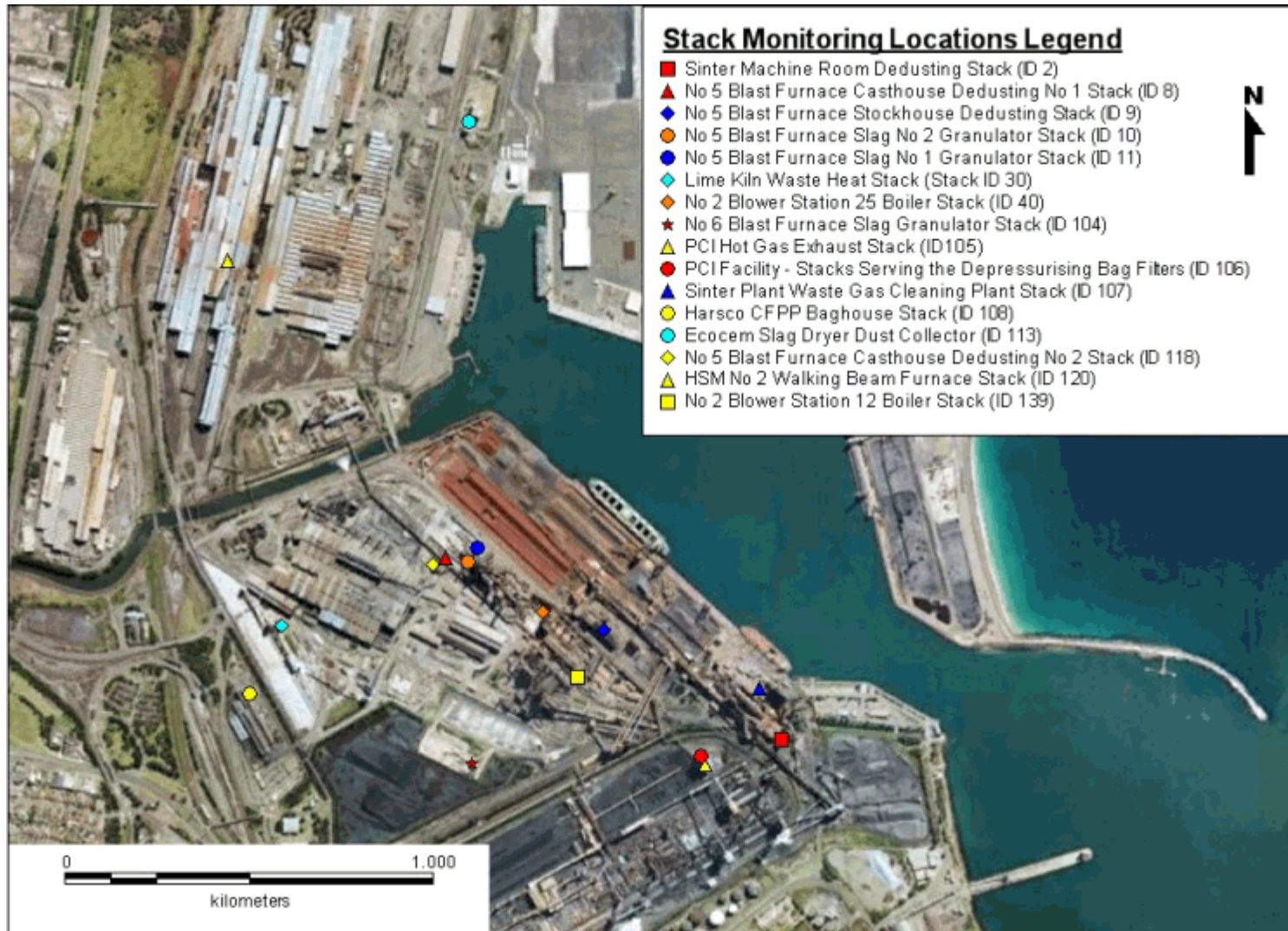
**1 Jul 2023 to 31 Jul 2023**

Monthly (July 2023) Report Published: 19, September, 2023

Date Obtained: 15/09/2023

# 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	2	0.00094	0.0011		no
Cadmium	Milligrams per cubic metre	Quarterly in duplicate	2	0.0012	0.0017		no
Dry Gas Density	Kilograms per cubic metre	Quarterly in duplicate	16	1.32	1.32		no
Fine Particulates	Milligrams per cubic metre	Quarterly in duplicate	3	2.4	3.4		no
Hydrogen Chloride	Milligrams per cubic metre	Quarterly in duplicate	2	32	33		no
Hydrogen Fluoride	Milligrams per cubic metre	Quarterly in duplicate	2	3.2	4		no
Lead	Milligrams per cubic metre	Quarterly in duplicate	2	0.061	0.073		no
Manganese	Milligrams per cubic metre	Quarterly in duplicate	2	0.0054	0.0059		no
Moisture	Percent	Quarterly in duplicate	16	7.4	10		no
Molecular Weight of stack gases	grams per gram mole	Quarterly in duplicate	16	29.5	29.7		no
Nickel	Milligrams per cubic metre	Quarterly in duplicate	2	0.00012	0.00045		no
Nitrogen Oxides	Milligrams per cubic metre	Quarterly	4	276	293	2,000.00	no
Oxygen (O2)	Percent	Quarterly in duplicate	4	16	16		no
Solid Particles	Milligrams per cubic metre	Quarterly in duplicate	3	5.4	10	20.00	no
Sulfuric acid mist and sulphur trioxide (as SO3)	Milligrams per cubic metre	Quarterly in duplicate	2	11	32	100.00	no
Sulphur Dioxide - UV	Milligrams per cubic metre	Quarterly	2	83	100	1,000.00	no
Temperature	Degrees Celcius	Quarterly in duplicate	16	135	138		no
Velocity	Metres per second	Quarterly in duplicate	16	15	18		no
Volumetric flowrate	Cubic metres per second	Quarterly in duplicate	16	300	360		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	1.5	3.7	3.4	9.2
<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	0.2	5.5	5	50.6
<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	5	0.034	0.055	0.055	0.073
Fine Particulates	Micrograms per cubic metre	Continuous	Continuous	3	12	11	22
Iron	Micrograms per cubic metre	Every 6 days	5	0.28	0.64	0.49	1.4
Lead	Micrograms per cubic metre	Every 6 days	5	<0.054	<0.054	0.03	<0.055
Particulates - Deposited Matter	Grams per square metre per month	Monthly	1	0.8	0.8	0.8	0.8
Polycyclic aromatic hydrocarbons	Nanograms per cubic metre	24 hour period every 6 days.	5	0.59	0.61	0.60	0.64
Total suspended particles	Micrograms per cubic metre	Every 6 days	5	6.3	16	16	22
Type 1 and Type 2 substances in aggregate	Micrograms per cubic metre	Quarterly	1	0.034	0.034	0.03	0.034
Zinc	Micrograms per cubic metre	Every 6 days	5	<0.11	<0.11	0.06	<0.11
<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	5	0.052	0.088	0.081	0.14
Fine Particulates	Micrograms per cubic metre	Continuous	Continuous	7	19	20	34
Iron	Micrograms per cubic metre	Every 6 days	5	1.2	2.1	2.4	3.0
Lead	Micrograms per cubic metre	Every 6 days	5	<0.054	<0.054	0.03	<0.055
Particulates - Deposited Matter	Grams per square metre per month	Monthly	1	1.2	1.2	1.20	1.2
Polycyclic aromatic hydrocarbons	Nanograms per cubic metre	24 hour period every 6 days.	5	0.79	1.2	0.98	1.8
Total suspended particles	Micrograms per cubic metre	Every 6 days	5	24	38	44	51
Type 1 and Type 2 substances in aggregate	Micrograms per cubic metre	Quarterly	1	0.053	0.053	0.05	0.053
Zinc	Micrograms per cubic metre	Every 6 days	5	<0.11	0.11	0.13	0.14
<b>Comment:</b>							

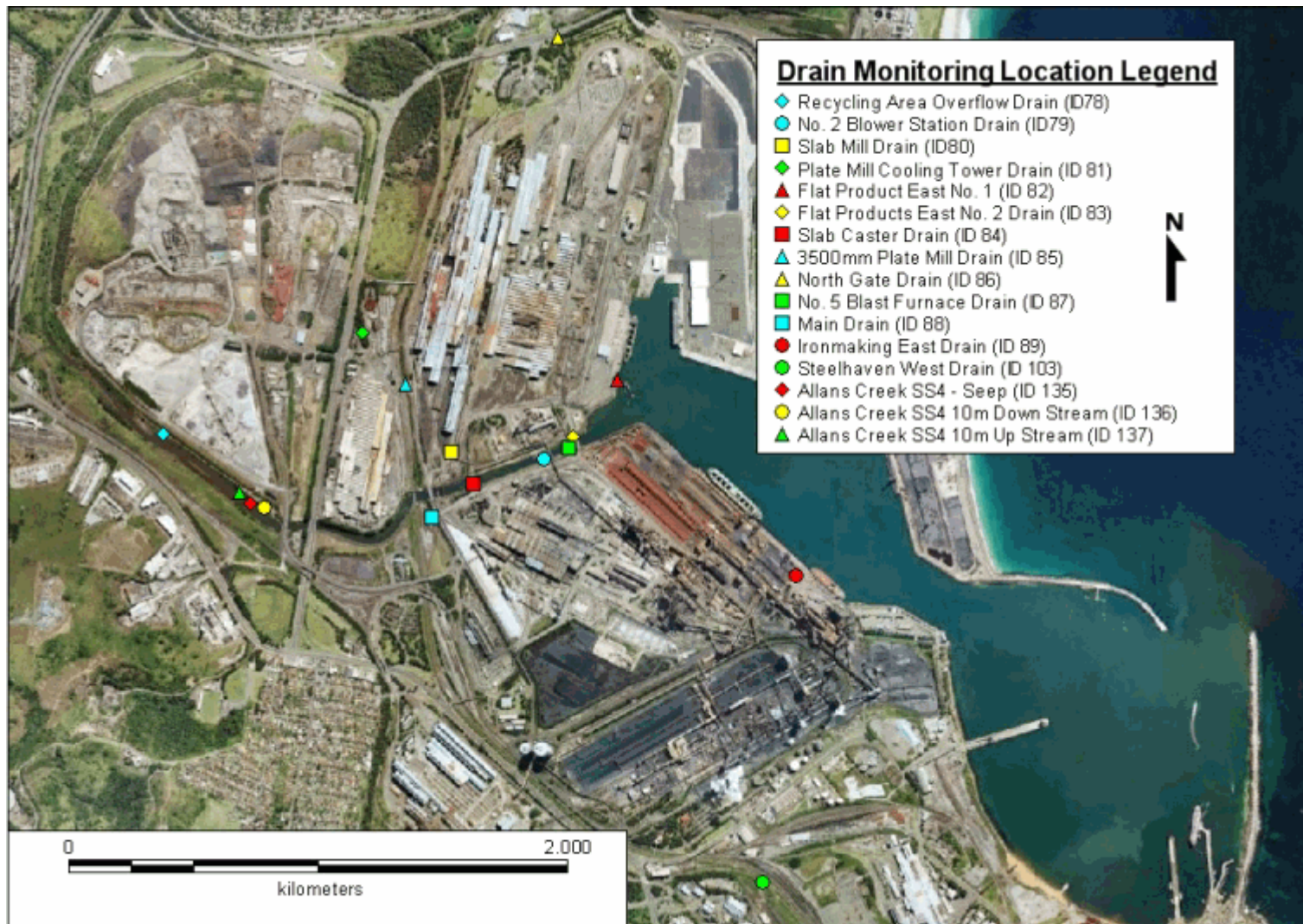
**Point 153: Receiver 3 (located west of licensed site)**

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	0.87	2.4	2.6	3.1
Lead	Micrograms per cubic metre	Every 6 days	5	<0.054	<0.054	0.03	<0.055
Total suspended particles	Micrograms per cubic metre	Every 6 days	5	20	35	36	42
Type 1 and Type 2 substances in aggregate	Micrograms per cubic metre	Quarterly	1	0.055	0.055	0.06	0.055
Zinc	Micrograms per cubic metre	Every 6 days	5	<0.11	<0.11	0.06	0.14
<b>Comment:</b>							

Date Obtained: 15/09/2023

## 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	0	0.00	0
<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	4	<0.06	<0.06	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	<0.013	<0.013	0.3 (0.3)	no
Oil and Grease	Milligrams per litre	Every 8 days	4	<5	<5	20 (50)	no
pH		Every 8 days	4	8.1	8.1	6.5-9.0 (6.5-9.0)	no
Temperature	Degrees Celcius	Every 8 days	4	21	24.5	40 (40)	no
Total Iron	Milligrams per litre	Every 8 days	4	0.11	0.22	3 (50)	no
Total Suspended Solids	Milligrams per litre	Every 8 days	4	<3	4	50 (500)	no
Total Zinc	Milligrams per litre	Every 8 days	4	<0.05	<0.05	3 (3)	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	550681	717800		
<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	404	3813		
<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) *
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	20	363		
<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) *
Cyanide	Milligrams per litre	Quarterly grab sample . Min 80 days apart	0			0.15 (0.00)	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	0	0		
<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	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	18	18	35.00	no
Total Suspended Solids	Milligrams per litre	24/year. Min 15 days apart	2	<3	4	50.00	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	33083	34005		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	0.028	1.5 (1.5)	no
Lead	Milligrams per litre	Every 8 days	4	<0.02	<0.02	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	8.2	6.5-11.0 (6.5-11.0)	no
Temperature	Degrees Celcius	Every 8 days	4	16	17.5	40 (40)	no
Total Iron	Milligrams per litre	Every 8 days	4	0.09	0.14	7 (100)	no
Total Suspended Solids	Milligrams per litre	Every 8 days	4	<3	4	70 (500)	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	1890	2016		
<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	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	15	16.5	40 (40)	no
Total Suspended Solids	Milligrams per litre	24/year. Min 15 days apart	2	<3	4	100 (200)	no
Total Zinc	Milligrams per litre	24/year. Min 15 days apart	2	<0.05	<0.05	3 (3)	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	27974	29654		
<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) *
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	0	0		
<b>Comment:</b>							