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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 Nov 2023 to 30 Nov 2023**

Monthly (November 2023) Report Published: 25, January, 2024

## Stack Air Monitoring Requirements

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





**Point 8:**

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	8.6	8.6	50.00	no
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	1.5	1.5	50.00	no
Comment:							

**Point 113:**

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) *
Nitrogen Oxides (18% Oxygen correction)	Milligrams per cubic metre	Yearly	2	9	10	80.00	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 (years / no) *
Dry Gas Density	Kilograms per cubic metre	Quarterly	10	1.29	1.29		no
Hydrogen Sulphide	Grams per second	Quarterly	1	1	1	1.20	no
Moisture	Percent	Quarterly	10	3.8	22		no
Molecular Weight of stack gases	grams per gram mole	Quarterly	10	28.9	28.9		no
Temperature	Degrees Celcius	Quarterly	10	28	62		no
Velocity	Metres per second	Quarterly	10	1.6	4.1		no
Volumetric flowrate	Cubic metres per second	Quarterly	11	18	34		no
<b>Comment:</b>							

**Point 138:**

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) *
Dry Gas Density	Kilograms per cubic metre	Every 2 years	20	1.31	1.32		no
Moisture	Percent	Every 2 years	20	11	13		no
Molecular Weight of stack gases	grams per gram mole	Every 2 years	20	29.4	29.6		no
Nitrogen Oxides (3% Oxygen correction)	Milligrams per cubic metre	Every 2 years	8	64	67	200.00	no
Oxygen (O2)	Percent	Every 2 years	8	11	12		no
Temperature	Degrees Celcius	Every 2 years	20	138	141		no
Velocity	Metres per second	Every 2 years	20	4.5	5.7		no
Volumetric flowrate	Cubic metres per second	Every 2 years	20	7.3	9.4		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	2.6	2.3	14.4
<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	6.4	6	43.7
<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	0.028	0.081	0.061	0.21
Fine Particulates	Micrograms per cubic metre	Continuous	Continuous	6	19	17	35
Iron	Micrograms per cubic metre	Every 6 days	4	0.63	2.6	2.2	5.3
Lead	Micrograms per cubic metre	Every 6 days	4	<0.055	<0.055	0.03	<0.056
Particulates - Deposited Matter	Grams per square metre per month	Monthly	1	1.5	1.5	1.50	1.5
Polycyclic aromatic hydrocarbons	Nanograms per cubic metre	24 hour period every 6 days.	4	0.60	1.2	0.65	2.8
Total suspended particles	Micrograms per cubic metre	Every 6 days	4	26	47	48	68
Type 1 and Type 2 substances in aggregate	Micrograms per cubic metre	Quarterly	1	0.2	0.2	0.2	0.2
Zinc	Micrograms per cubic metre	Every 6 days	4	<0.11	<0.11	0.06	0.14

**Comment:** Due to power outage, sample ran for less than 24 hours on the 27th of November 2023.



**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	0.031	0.067	0.061	0.098
Fine Particulates	Micrograms per cubic metre	Continuous	Continuous	9	21	21	36
Iron	Micrograms per cubic metre	Every 6 days	5	1.3	3.1	2.2	6.5
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	3.3	3.3	3.30	3.3
Polycyclic aromatic hydrocarbons	Nanograms per cubic metre	24 hour period every 6 days.	5	0.60	0.98	0.92	1.7
Total suspended particles	Micrograms per cubic metre	Every 6 days	5	37	50	44	76
Type 1 and Type 2 substances in aggregate	Micrograms per cubic metre	Quarterly	2	0.08	0.10	0.10	0.12
Zinc	Micrograms per cubic metre	Every 6 days	5	<0.11	<0.11	0.06	0.29
<b>Comment:</b>							

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

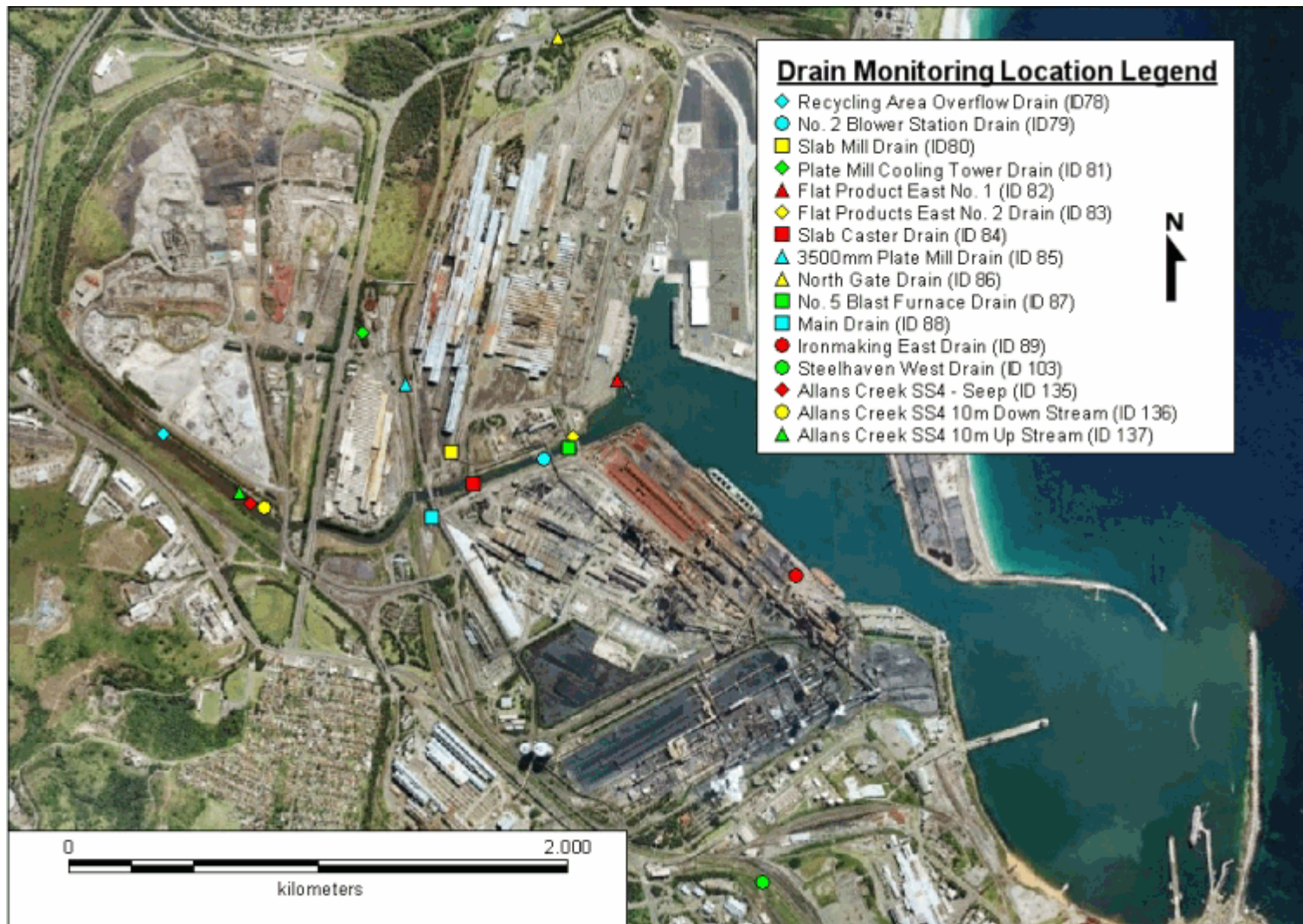
Pollutant	Units of Measure	Monitoring frequency required by licence	No. of times measured during month	Min. Value	Mean Value	Median Value	Max. Value
Iron	Micrograms per cubic metre	Every 6 days	5	1.3	1.8	1.4	2.9
Lead	Micrograms per cubic metre	Every 6 days	5	<0.055	<0.055	0.03	<0.056
Total suspended particles	Micrograms per cubic metre	Every 6 days	5	29	41	43	52
Type 1 and Type 2 substances in aggregate	Micrograms per cubic metre	Quarterly	2	0.067	0.12	0.12	0.18
Zinc	Micrograms per cubic metre	Every 6 days	5	<0.11	<0.11	0.06	0.16
<b>Comment:</b>							

Date Obtained: 01/02/2024



## 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	0				
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	101.7	0.00	1254
<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	8	<0.06	0.08	5.0 (5.0)	no
Cyanide	Milligrams per litre	Every 8 days	8	<0.02	<0.02	0.30 (0.30)	no
Filtrable Iron	Milligrams per litre	Every 8 days	8	<0.013	0.07	0.3 (0.3)	no
Oil and Grease	Milligrams per litre	Every 8 days	8	<5	<5	20 (50)	no
pH		Every 8 days	8	8	8.1	6.5-9.0 (6.5-9.0)	no
Temperature	Degrees Celcius	Every 8 days	8	26.5	28.5	40 (40)	no
Total Iron	Milligrams per litre	Every 8 days	8	0.11	0.23	3 (50)	no
Total Suspended Solids	Milligrams per litre	Every 8 days	8	<3	6	50 (500)	no
Total Zinc	Milligrams per litre	Every 8 days	8	<0.05	0.081	3 (3)	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	546869	655750		
<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	0.028	0.028	0.20 (0.00)	no
pH		6/yr. Min 50 days apart.	1	8.1	8.1	6.5-9.0 (0.0-0.0)	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	314	6614		
<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	30	3645		
<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	780		
<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	21.5	24.5	35.00	no
Total Suspended Solids	Milligrams per litre	24/year. Min 15 days apart	2	3	3	50.00	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	24480	38144		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	0.015	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	20.5	22	40 (40)	no
Total Iron	Milligrams per litre	Every 8 days	4	0.11	0.34	7 (100)	no
Total Suspended Solids	Milligrams per litre	Every 8 days	4	4	8	70 (500)	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	1854	2369		
<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	8.1	8.2	6.5-9.0 (6.5-9.0)	no
Temperature	Degrees Celcius	24/year. Min 15 days apart	2	22	23	40 (40)	no
Total Suspended Solids	Milligrams per litre	24/year. Min 15 days apart	2	5	6	100 (200)	no
Total Zinc	Milligrams per litre	24/year. Min 15 days apart	2	<0.05	0.069	3 (3)	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	29005	142200		
<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) *
Ammonia	Milligrams per litre	Special frequency 11	0			7.0 (7.0)	no
Copper	Milligrams per litre	Special frequency 11	0			1.000	no
Cyanide	Milligrams per litre	Special frequency 11	0			0.20 (0.20)	no
Filtrable Iron	Milligrams per litre	Special frequency 11	0			0.5 (0.5)	no
Fluoride	Milligrams per litre	Special frequency 11	0			50 (50)	no
pH		Special frequency 11	0			6.5-9.0 (6.5-9.0)	no
Temperature	Degrees Celcius	Special frequency 11	0			45 (45)	no
Total Iron	Milligrams per litre	Special frequency 11	0			7 (20)	no
Total Suspended Solids	Milligrams per litre	Special frequency 11	0			100 (200)	no
Total Zinc	Milligrams per litre	Special frequency 11	0			3 (3)	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	0	3262		
<b>Comment:</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	1.3	1.3	1.3000	1.3
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	9.2	9.2	9.20	9.2
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	23.5	23.5	23.50	23.5
<b>Comment:</b>							