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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 Mar 2021 to 31 Mar 2021

Monthly (March 2021) Report Published: 18, May, 2021

Stack Air Monitoring Requirements

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





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 (yes / no) *
Solid Particles	Milligrams per cubic metre	Yearly	1	20	20	50.00	no
Comment:							

Point 40:

Pollutant	Units of Measure	Monitoring frequency required by licence	No. of times measured during month	Min. Value	Max Value	100 Percentile Limit	Exceedance (yes / no) *
Cadmium (7% Oxygen correction)	Milligrams per cubic metre	Yearly	1	<0.00002	<0.00002	0.10000	no
Carbon Dioxide	Percent	Yearly	9	5.2	20		no
Carbon Monoxide (7% Oxygen correction)	Milligrams per cubic metre	Yearly	3	<3	<3	400.00	no
Dry Gas Density	Kilograms per cubic metre	Yearly	20	1.31	1.41		no
Mercury (7% Oxygen correction)	Milligrams per cubic metre	Yearly	1	<0.000024	<0.000024	0.10000	no
Moisture	Percent	Yearly	20	8.7	20		no
Molecular Weight of stack gases	grams per gram mole	Yearly	20	29.4	31.5		no
Nitrogen Oxides (7% Oxygen correction)	Milligrams per cubic metre	Yearly	3	115	118	600.00	no
Oxygen (O2)	Percent	Yearly	9	4.2	9.8		no
Solid Particles (7% Oxygen corrected)	Milligrams per cubic metre	Yearly	1	4.4	4.4	30.00	no
Sulphur Dioxide (7% Oxygen correction)	Milligrams per cubic metre	Yearly	3	287	299	1,250.00	no
Temperature	Degrees Celcius	Yearly	20	123	154		no
Type 1 and 2 substances in aggregate (7% Oxygen correction)	Milligrams per cubic metre	Yearly	1	0.031	0.031	1.0000	no
Velocity	Metres per second	Yearly	20	5.1	8.8		no
Volumetric flowrate	Cubic metres per second	Yearly	20	31	54		no
Comment:							



Point 18:

Pollutant	Units of Measure	Monitoring frequency required by licence	No. of times measured during month	Min. Value	Mean Value	Median Value	Max. Value
Hydrogen Sulphide	Milligrams per cubic metre	Quarterly	4	0.9	1.4	1.35	2
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	0.0	2.8	2.9	33.4
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	Mean Value	Median Value	Max Value
Total Solid Particles	Milligrams per cubic metre	Continuous	Continuous	0.0	3.7	3.4	33.8
Comment: Elevated results associated with plant shutdown and startup.							



Ambient Air Monitoring Requirements

EPL6092 Condition M2.2/M2.3/O4.12, O4.13,O4.14 (Cont.)

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	1	4	no
Comment:				

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
Comment:				

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
Comment:				



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	0.021	0.046	0.0280	0.12
Fine Particulates	Micrograms per cubic metre	Continuous	Continuous	8	19	17	38
Iron	Micrograms per cubic metre	Every 6 days	5	0.33	1.398	0.68	4.9
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	0.47	0.47	0.47	0.47
Polycyclic aromatic hydrocarbons	Nanograms per cubic metre	24 hour period every 6 days.	5	0.6	0.728	0.61	1.2
Total suspended particles	Micrograms per cubic metre	Every 6 days	5	23	38	34.00	63
Zinc	Micrograms per cubic metre	Every 6 days	5	<0.11	0.14	0.06	0.48
Comment:							



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

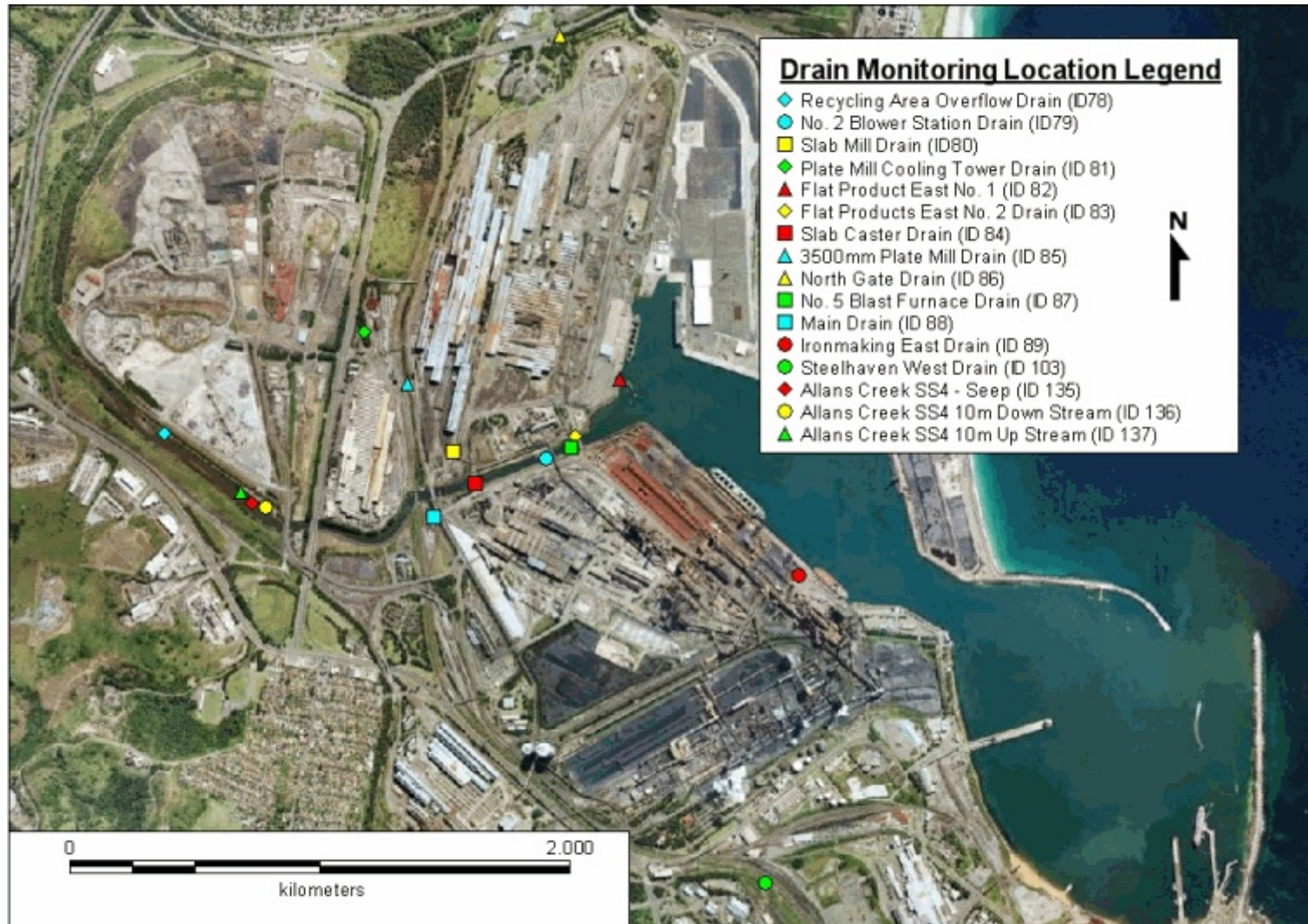
Pollutant	Units of Measure	Monitoring frequency required by licence	No. of times measured during month	Min. Value	Mean Value	Median Value	Max. Value
Benzene	Parts per billion	Every 6 days	5	0.02	0.0504	0.0550	0.083
Fine Particulates	Micrograms per cubic metre	Continuous	Continuous	11	26	23	52
Iron	Micrograms per cubic metre	Every 6 days	5	0.55	3.15	1.80	7.6
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	1.2	1.2	1.20	1.2
Polycyclic aromatic hydrocarbons	Nanograms per cubic metre	24 hour period every 6 days.	5	0.6	1.074	1.10	1.7
Total suspended particles	Micrograms per cubic metre	Every 6 days	5	27	51.8	48.00	80
Zinc	Micrograms per cubic metre	Every 6 days	5	<0.11	0.281	0.13	0.82
Comment:							

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	1.74	1.50	2.6
Lead	Micrograms per cubic metre	Every 6 days	5	<0.055	<0.055	0.03	0.088
Total suspended particles	Micrograms per cubic metre	Every 6 days	5	27	43.4	44.00	54
Zinc	Micrograms per cubic metre	Every 6 days	5	<0.11	<0.11	0.06	0.13
Comment:							

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	1	104	104	104	104
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	0	297	0	3395
Comment:							

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 (yes / no) *
Ammonia	Milligrams per litre	Every 8 days	9	<0.06	0.32	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	9	<0.01	0.15	0.3 (0.3)	no
Oil and Grease	Milligrams per litre	Every 8 days	9	<5	<5	20 (50)	no
pH		Every 8 days	9	8.1	8.2	6.5-9.0 (6.5-9.0)	no
Temperature	Degrees Celcius	Every 8 days	9	26.2	30.2	40 (40)	no
Total Iron	Milligrams per litre	Every 8 days	9	0.13	0.42	3 (50)	no
Total Suspended Solids	Milligrams per litre	Every 8 days	9	<3	20	50 (500)	no
Total Zinc	Milligrams per litre	Every 8 days	9	<0.05	0.06	3 (3)	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	449866	641609		
Comment:							



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 (yes / no) *
Cyanide	Milligrams per litre	6/yr. Min 50 days apart.	2	<0.02	0.048	0.20 (0.00)	no
pH		6/yr. Min 50 days apart.	2	7.8	8.3	6.5-9.0 (0.0-0.0)	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	504	9118		
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 (yes / 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	0	6250		
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 (yes / no) *
Cyanide	Milligrams per litre	Quarterly grab sample. Min 80 days apart	1	<0.02	<0.02	0.15 (0.00)	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	0	1360		
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 (yes / no) *
Oil and Grease	Milligrams per litre	24/year. Min 15 days apart	5	<5	<5	20.0000	no
pH		24/year. Min 15 days apart	5	8.1	8.2	6.5-9.0	no
Temperature	Degrees Celcius	24/year. Min 15 days apart	5	21.2	25.2	35.00	no
Total Suspended Solids	Milligrams per litre	24/year. Min 15 days apart	5	5	14	50.00	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	33231	37335		no
Comment:							

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 (yes / no) *
Ammonia	Milligrams per litre	Every 8 days	5	<0.06	<0.06	10.0 (10.0)	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	<0.01	<0.01	1.5 (1.5)	no
Lead	Milligrams per litre	Every 8 days	5	<0.02	<0.02	0.5 (0.5)	no
Mercury	Micrograms per litre	Every 8 days	5	<0.5	<0.5	1.5 (1.5)	no
pH		Every 8 days	5	8.1	8.2	6.5-11.0 (6.5-11.0)	no
Temperature	Degrees Celcius	Every 8 days	5	20.2	24.2	40 (40)	no
Total Iron	Milligrams per litre	Every 8 days	5	0.11	1.5	7 (100)	no
Total Suspended Solids	Milligrams per litre	Every 8 days	5	3	16	70 (500)	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	701	2000		
Comment:							



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	8.1	6.5-9.0 (6.5-9.0)	no
Temperature	Degrees Celcius	24/year. Min 15 days apart	2	20.2	22.2	40 (40)	no
Total Suspended Solids	Milligrams per litre	24/year. Min 15 days apart	2	6	14	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	21660	210679		
Comment:							



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) *
Ammonia	Milligrams per litre	Special frequency 11	2	0.92	1	7.0 (7.0)	no
Copper	Milligrams per litre	Special frequency 11	2	<0.01	0.07	1.000	no
Cyanide	Milligrams per litre	Special frequency 11	2	<0.02	<0.02	0.20 (0.20)	no
Filtrable Iron	Milligrams per litre	Special frequency 11	1	0.02	0.02	0.5 (0.5)	no
Fluoride	Milligrams per litre	Special frequency 11	1	3.5	3.5	50 (50)	no
pH		Special frequency 11	1	7.8	7.8	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	1	0.71	0.71	7 (20)	no
Total Suspended Solids	Milligrams per litre	Special frequency 11	2	3	51	100 (200)	no
Total Zinc	Milligrams per litre	Special frequency 11	2	0.43	0.44	3 (3)	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	0	8487		
Comment:							



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	<0.06	<0.06	0.0300	<0.06
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	8.2	8.2	8.20	8.2
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	20.2	20.2	20.20	20.2
Comment:							