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Port Kembla Steelworks
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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 May 2022 to 31 May 2022

Monthly (May 2022) Report Published: 18, July, 2022

Date Obtained: 18/07/2022

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 (years / no) *
Solid Particles	Milligrams per cubic metre	Quarterly	1	8.5	8.5	50.00	no
Comment:							

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) *
Carbon Dioxide	Percent	Quarterly in duplicate	15	5.9	6.6		no
Dry Gas Density	Kilograms per cubic metre	Quarterly in duplicate	17	1.32	1.32		no
Hydrogen Chloride	Milligrams per cubic metre	Quarterly in duplicate	2	28	31		no
Hydrogen Fluoride	Milligrams per cubic metre	Quarterly in duplicate	2	3.1	4.5		no
Moisture	Percent	Quarterly in duplicate	17	8.5	9		no
Molecular Weight of stack gases	grams per gram mole	Quarterly in duplicate	17	29.6	29.6		no
Nitrogen Oxides	Milligrams per cubic metre	Quarterly	15	250	309	2,000.00	no
Oxygen (O2)	Percent	Quarterly in duplicate	15	16	17		no
Sulphur Dioxide - UV	Milligrams per cubic metre	Quarterly	15	84	140	1,000.00	no
Temperature	Degrees Celcius	Quarterly in duplicate	17	136	136		no
Velocity	Metres per second	Quarterly in duplicate	17	15	15		no
Volumetric flowrate	Cubic metres per second	Quarterly in duplicate	17	300	300		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	0	2.4	2.2	49.3
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	0.3	5.5	5.5	33.2
Comment: 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
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	4	0.022	0.051	0.041	0.099
Fine Particulates	Micrograms per cubic metre	Continuous	Continuous	1	10	8	29
Iron	Micrograms per cubic metre	Every 6 days	5	0.25	1.1	0.55	3.1
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	0.21	0.21	0.21	0.21
Polycyclic aromatic hydrocarbons	Nanograms per cubic metre	24 hour period every 6 days.	5	1.4	1.4	1.4	1.4
Total suspended particles	Micrograms per cubic metre	Every 6 days	5	7.5	15	11	34
Zinc	Micrograms per cubic metre	Every 6 days	5	<0.11	0.17	0.06	0.52

Comment:

VOC for 30/5/22 did not run due to power failure.



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

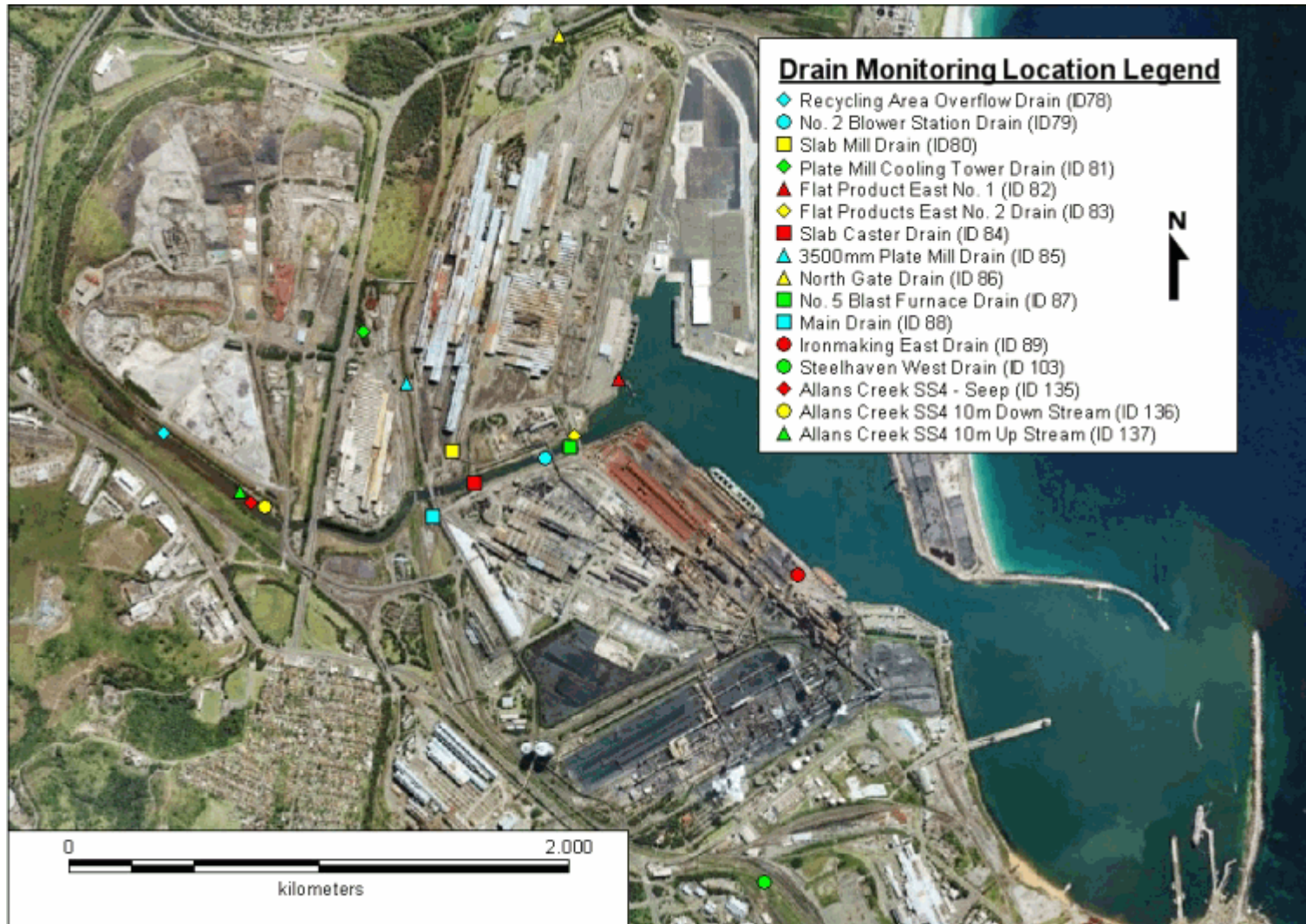
Pollutant	Units of Measure	Monitoring frequency required by licence	No. of times measured during month	Min. Value	Mean Value	Median Value	Max. Value
Benzene	Parts per billion	Every 6 days	5	0.03	0.068	0.061	0.096
Fine Particulates	Micrograms per cubic metre	Continuous	Continuous	5	15	14	33
Iron	Micrograms per cubic metre	Every 6 days	5	0.98	2.0	1.4	4.6
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	1.1	1.1	1.1	1.1
Polycyclic aromatic hydrocarbons	Nanograms per cubic metre	24 hour period every 6 days.	5	1.4	1.4	1.4	1.4
Total suspended particles	Micrograms per cubic metre	Every 6 days	5	18	27	28	42
Zinc	Micrograms per cubic metre	Every 6 days	5	<0.11	0.24	0.18	0.46
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	1.2	2.7	2.6	4.0
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	10	47	39	83
Zinc	Micrograms per cubic metre	Every 6 days	5	<0.11	<0.11	0.06	<0.11
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	0				
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	0	110.355	0.00	868
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 (ye s / no) *
Ammonia	Milligrams per litre	Every 8 days	8	<0.06	0.23	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	7	<0.013	<0.013	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	8.2	6.5-9.0 (6.5-9.0)	no
Temperature	Degrees Celcius	Every 8 days	8	25	29	40 (40)	no
Total Iron	Milligrams per litre	Every 8 days	7	0.1	0.31	3 (50)	no
Total Suspended Solids	Milligrams per litre	Every 8 days	8	<3	9	50 (500)	no
Total Zinc	Milligrams per litre	Every 8 days	7	<0.125	<0.125	3 (3)	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	574397	617692		
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 (ye s / no) *
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	948	7210		
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 (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	368	4092		
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 (years / 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	728		
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 (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	22	23.5	35.00	no
Total Suspended Solids	Milligrams per litre	24/year. Min 15 days apart	2	7	8	50.00	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	31798	33229		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 (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	0.02	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	8.2	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	0.14	0.58	7 (100)	no
Total Suspended Solids	Milligrams per litre	Every 8 days	4	5	7	70 (500)	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	2104	2371		
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 (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	8.1	6.5-9.0 (6.5-9.0)	no
Temperature	Degrees Celcius	24/year. Min 15 days apart	2	19.5	19.5	40 (40)	no
Total Suspended Solids	Milligrams per litre	24/year. Min 15 days apart	2	4	14	100 (200)	no
Total Zinc	Milligrams per litre	24/year. Min 15 days apart	2	<0.125	<0.125	3 (3)	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	49845	131830		
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 (years / no) *
Copper	Milligrams per litre	Special frequency 11	0			1.000	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	0		
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	8.1	8.1	8.10	8.1
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	21.5	21.5	21.50	21.5
Comment:							