



Bluescope Steel (AIS) Pty Ltd
ABN 19 000 019625
Port Kembla Steelworks
Five Islands Road
Port Kembla 2505
PO Box 1854
Wollongong NSW 2500

BLUESCOPE STEEL (AIS) PTY. LTD.
Port Kembla Steelworks
Licence 6092

[Link to Environment Protection Licence EPL6092](#)

LICENCE MONITORING DATA
MONTHLY SUMMARY REPORT

for

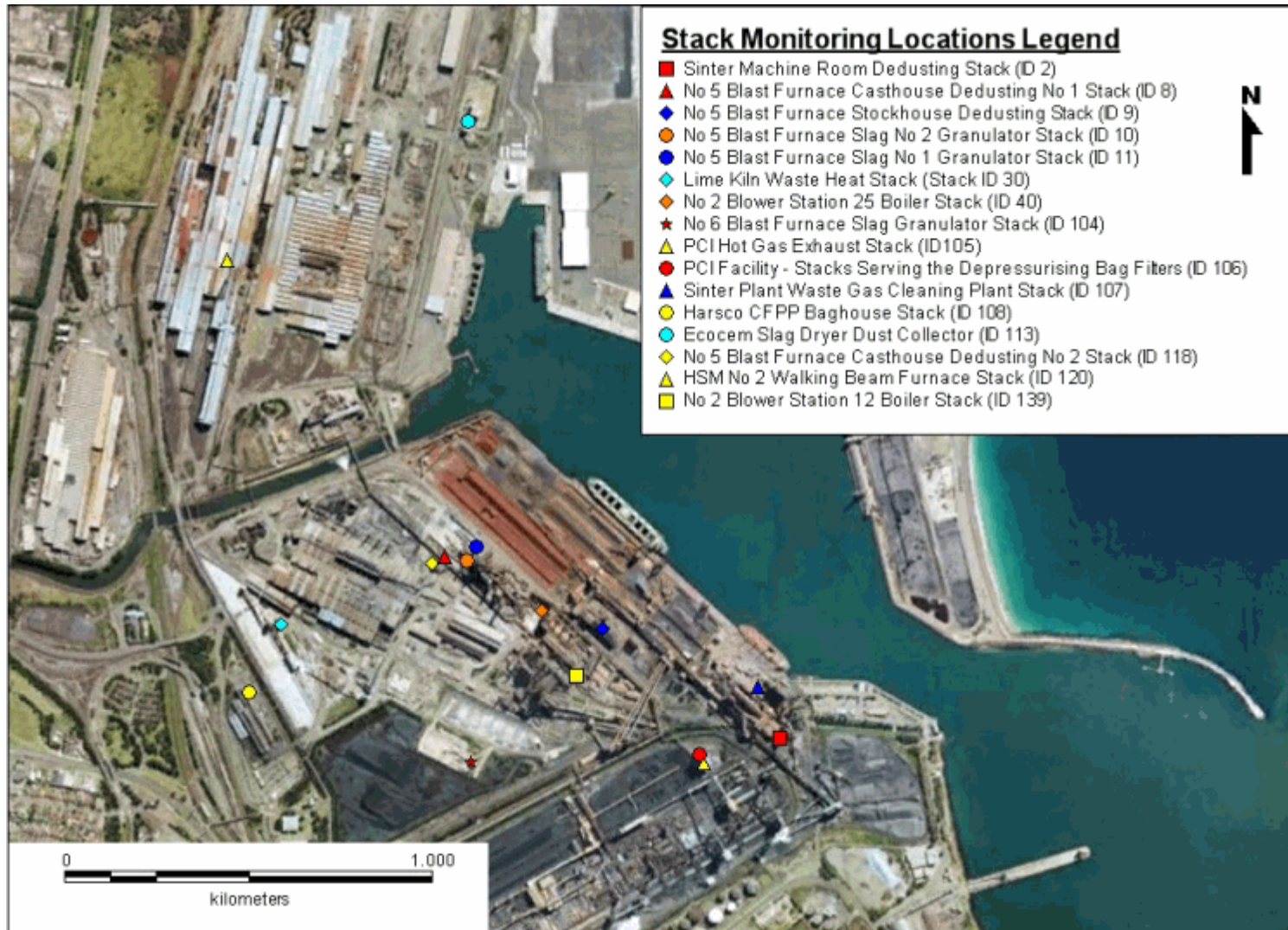
1 May 2020 to 31 May 2020

Monthly (May 2020) Report Published: 14, August, 2020

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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 (yes / no) *
Solid Particles	Milligrams per cubic metre	Quarterly	1	4.3	4.3	50.00	no
Comment:							

Point 105:

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) *
Nitrogen Oxides (3% Oxygen correction)	Milligrams per cubic metre	Yearly	1	<4	<4	200.00	no
Solid Particles (3% Oxygen correction)	Milligrams per cubic metre	Yearly	1	13	13	20.00	no
Comment:							

Point 106:

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	<2	<2	20.00	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 (yes / no) *
Arsenic	Milligrams per cubic metre	Quarterly in duplicate	3	0.00043	0.00067		no
Cadmium	Milligrams per cubic metre	Quarterly in duplicate	3	0.00025	0.00048		no
Carbon Dioxide	Percent	Quarterly in duplicate	24	5.4	7.5		no
Dioxins & Furans (15.7% Oxygen correction)	Nanograms per cubic metre	Quarterly in duplicate	3	0.0053	0.0067	0.300000	no
Dry Gas Density	Kilograms per cubic metre	Quarterly in duplicate	40	1.32	1.34		no
Fine Particulates	Milligrams per cubic metre	Quarterly in duplicate	2	1.4	2		no
Hydrogen Chloride	Milligrams per cubic metre	Quarterly in duplicate	3	32	35		no
Hydrogen Fluoride	Milligrams per cubic metre	Quarterly in duplicate	3	1.9	2.6		no
Lead	Milligrams per cubic metre	Quarterly in duplicate	3	0.01	0.017		no
Manganese	Milligrams per cubic metre	Quarterly in duplicate	3	0.0024	0.0085		no
Moisture	Percent	Quarterly in duplicate	40	9	11		no
Molecular Weight of stack gases	grams per gram mole	Quarterly in duplicate	40	29.6	30		no
Nickel	Milligrams per cubic metre	Quarterly in duplicate	3	0.00011	0.00059		no
Nitrogen Oxides	Milligrams per cubic metre	Quarterly	24	264	323	2,000.00	no
Oxygen (O2)	Percent	Quarterly in duplicate	24	16	17		no
Solid Particles	Milligrams per cubic metre	Quarterly in duplicate	2	2	2.6	20.00	no
Sulfuric acid mist and sulphur trioxide (as SO3)	Milligrams per cubic metre	Quarterly in duplicate	3	1.5	1.9	100.00	no
Sulphur Dioxide - UV	Milligrams per cubic metre	Quarterly	24	31	42	1,000.00	no
Temperature	Degrees Celcius	Quarterly in duplicate	40	132	135		no
Velocity	Metres per second	Quarterly in duplicate	40	14	17		no
Volumetric flowrate	Cubic metres per second	Quarterly in duplicate	40	280	350		no

Point 151 (3A Side):

Pollutant	Units of Measure	Monitoring frequency required by licence	No. of times measured	Min. Value	Mean Value	Max. Value	100 Percentile Limit	Exceedance (yes/no)
Carbon dioxide	percent	Weekly	118	6.1	7.5	8.8	-	-
Dioxins & Furans	nanograms per cubic metre	Weekly	14	0.11	0.3	0.52	0.3	Yes*
Dry Gas Density	kilograms per cubic metre	Daily during testing	168	1.33	1.34	1.35	-	-
Flow	cubic metres per second	Daily during testing	168	180	256	420	-	-
Hydrogen Chloride	milligrams per cubic metre	Weekly	6	30	33	37	-	-
Hydrogen Fluoride	milligrams per cubic metre	Weekly	6	2.8	3.2	3.9	-	-
Moisture content	percent	Daily during testing	168	1	11	14	-	-
Molecular weight of stack gas	grams per gram mole	Daily during testing	168	29.8	30.0	30.3	-	-
Nitrogen Oxides	milligrams per cubic metre	Weekly	89	301	343	399	2000	No
Oxygen	percent	Daily during testing	120	14	15	16	-	-
Solid Particles	milligrams per cubic metre	Weekly	14	1.5	4.5	11	20	No

Pollutant	Units of Measure	Monitoring frequency required by licence	No. of times measured	Min. Value	Mean Value	Max. Value	100 Percentile Limit	Exceedance (yes/no) *
Sulphuric acid mist and sulphur trioxide (SO ₃)	milligrams per cubic metre	Weekly					100	
Sulphur dioxide	milligrams per cubic metre	Weekly	92	274	366	500	1000	
Temperature	degrees Celsius	Daily during testing	168	155	172	187	-	-
Velocity	metres per second	Daily during testing	168	11	15	24	-	-
Volumetric flowrate	cubic metres per second	Daily during testing	168	180	256	420	-	-
Type 1 Substances	milligrams per cubic metre	Weekly	7	0.014	0.056	0.13	-	-
Type 2 Substances	milligrams per cubic metre	Weekly	7	0.003	0.024	0.046	-	-

Note: **Type 1 Substance** means the elements antimony, arsenic, cadmium, lead or mercury or any compound containing one or more of those elements.
Type 2 Substance means the elements beryllium, chromium, cobalt, manganese, nickel, selenium, tin or vanadium or any compound containing one or more of those elements.

*6 exceedances recorded. Refer to [BlueScope in the Illawarra website](#) for action taken.

Point 151 (3B Side):

Pollutant	Units of Measure	Monitoring frequency required by licence	No. of times measured	Min. Value	Mean Value	Max. Value	100 Percentile Limit	Exceedance (yes/no) *
Solid Particles	milligrams per cubic metre	Weekly	9	2.9	6.4	13	20	No



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 (yes / no) *
Dry Gas Density	Kilograms per cubic metre	Quarterly	10	1.29	1.29		no
Hydrogen Sulphide	Grams per second	Quarterly	1	0.71	0.71	1.20	no
Moisture	Percent	Quarterly	10	5.3	9.5		no
Molecular Weight of stack gases	grams per gram mole	Quarterly	10	28.9	28.9		no
Temperature	Degrees Celcius	Quarterly	10	34	45		no
Velocity	Metres per second	Quarterly	10	2.1	3.1		no
Volumetric flowrate	Cubic metres per second	Quarterly	11	22	30		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	0.0	2.7	2.0	22.2
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	0.0	3.7	3.3	41.8
Comment: Sinter Plant by-pass of Point 107 was completed on the 2nd of May, refer to Point 151 for data prior to completion. Elevated results associated with plant shutdown and startup							

Point 151:

Pollutant	Units of Measure	Monitoring frequency required by licence	No. of times measured during month	Min. Value	Mean Value	Median Value	Max Value
Solid Particles	Milligrams per cubic metre	Continuous	Continuous	11.7	14.7	15.0	17.4
Comment:							



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Ambient Air Monitoring Requirements

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



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	0.024	0.0458	0.0340	0.1
Fine Particulates	Micrograms per cubic metre	Continuous	Continuous	4	12	11	32
Iron	Micrograms per cubic metre	Every 6 days	5	0.22	0.302	0.26	0.44
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	0.6	0.674	0.60	0.92
Total suspended particles	Micrograms per cubic metre	Every 6 days	5	8.9	12.48	14.00	15
Zinc	Micrograms per cubic metre	Every 6 days	5	<0.11	<0.11	0.06	<0.11
Comment:							

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

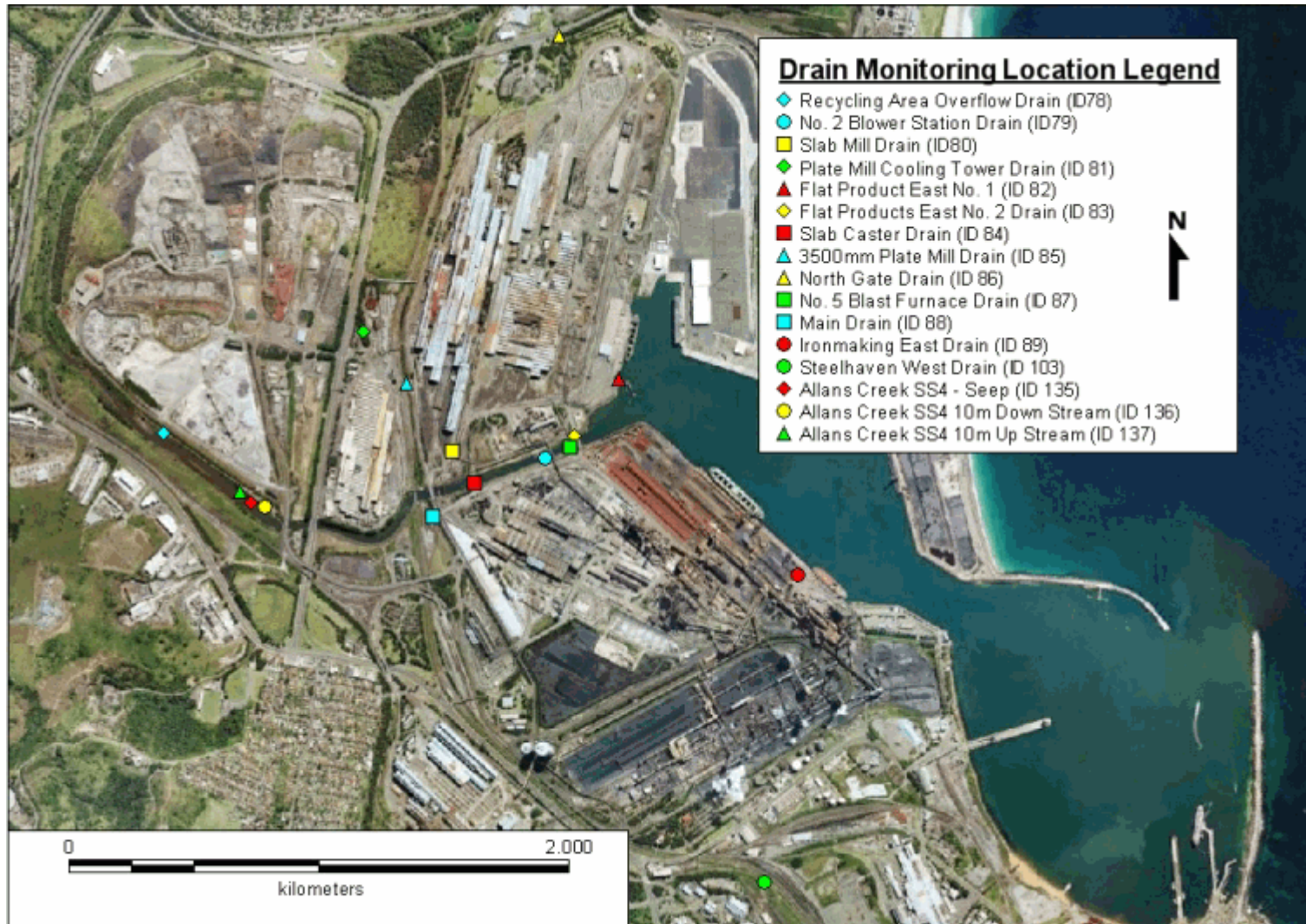
Pollutant	Units of Measure	Monitoring frequency required by licence	No. of times measured during month	Min. Value	Mean Value	Median Value	Max. Value
Benzene	Parts per billion	Every 6 days	5	0.012	0.0754	0.0690	0.14
Fine Particulates	Micrograms per cubic metre	Continuous	Continuous	5	15	14	30
Iron	Micrograms per cubic metre	Every 6 days	5	0.62	1.512	1.10	2.7
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	1.3	1.3	1.30	1.3
Polycyclic aromatic hydrocarbons	Nanograms per cubic metre	24 hour period every 6 days.	5	0.6	1.2	1.10	2.2
Total suspended particles	Micrograms per cubic metre	Every 6 days	5	12	26.2	22.00	44
Zinc	Micrograms per cubic metre	Every 6 days	5	<0.11	<0.11	0.06	0.19
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	1.88	1.20	3.2
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	18	37	29.00	64
Zinc	Micrograms per cubic metre	Every 6 days	5	<0.11	<0.11	0.06	0.14
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
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	47.226	0.00	938
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	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	<0.01	<0.01	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	8.2	8.2	6.5-9.0 (6.5-9.0)	no
Temperature	Degrees Celcius	Every 8 days	4	24	26	40 (40)	no
Total Iron	Milligrams per litre	Every 8 days	4	0.13	0.26	3 (50)	no
Total Suspended Solids	Milligrams per litre	Every 8 days	4	<3	16	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	573888	652393		
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.	1	<0.02	<0.02	0.20 (0.00)	no
pH		6/yr. Min 50 days apart.	1	7.8	7.8	6.5-9.0 (0.0-0.0)	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	630	4289		
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	2537		
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	0			0.15 (0.00)	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	0	503		
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	2	<5	<5	20.0000	no
pH		24/year. Min 15 days apart	2	8.2	8.2	6.5-9.0	no
Temperature	Degrees Celcius	24/year. Min 15 days apart	2	20	20.5	35.00	no
Total Suspended Solids	Milligrams per litre	24/year. Min 15 days apart	2	4	4	50.00	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	35026	38315		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	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	<0.01	<0.01	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	8.2	8.2	6.5-11.0 (6.5-11.0)	no
Temperature	Degrees Celcius	Every 8 days	4	18	19	40 (40)	no
Total Iron	Milligrams per litre	Every 8 days	4	0.19	0.28	7 (100)	no
Total Suspended Solids	Milligrams per litre	Every 8 days	4	3	16	70 (500)	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	1936	2204		
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	8.1	8.2	6.5-9.0 (6.5-9.0)	no
Temperature	Degrees Celcius	24/year. Min 15 days apart	2	17	17.5	40 (40)	no
Total Suspended Solids	Milligrams per litre	24/year. Min 15 days apart	2	<3	8	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	25026	52940		
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	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	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	8.5	8.5	8.50	8.5
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	15	15	15.00	15
Comment:							