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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

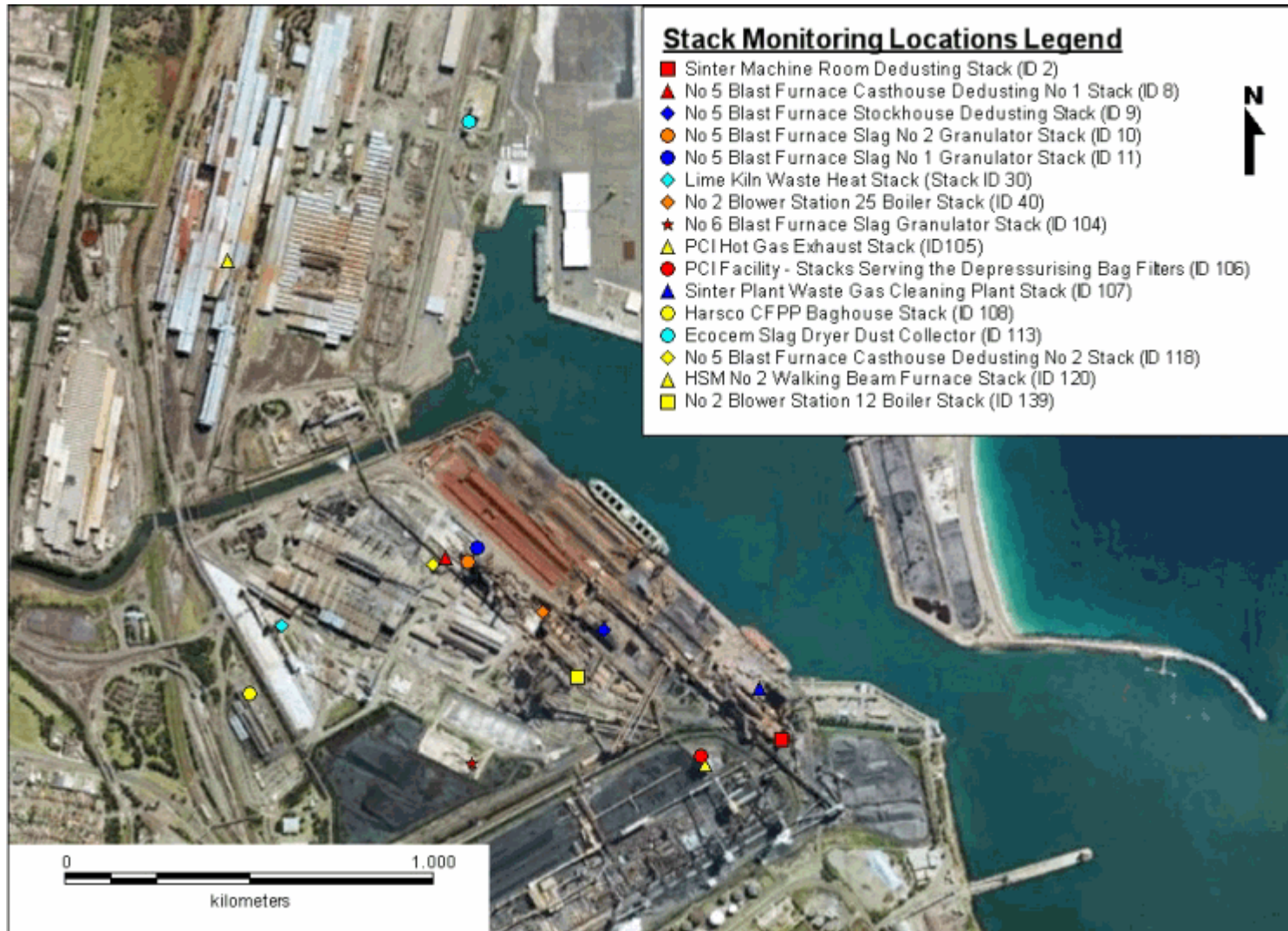
for

1 Apr 2023 to 30 Apr 2023

Monthly (April 2023) Report Published: 23, June, 2023

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	8.1	8.1	50.00	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	1.4	3.3	2.9	7.9
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	2.9	6.1	5.9	32.5
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	Max Value	100 Percentile Limit	Exceedance (y e s / no) *
Arsenic	Milligrams per cubic metre	Quarterly in duplicate	2	0.00028	0.0003		no
Cadmium	Milligrams per cubic metre	Quarterly in duplicate	2	0.00081	0.00087		no
Carbon Dioxide	Percent	Quarterly in duplicate	26	4.8	5.8		no
Chromium (hexavalent)	Milligrams per cubic metre	Yearly in duplicate	2	0.00065	0.00079		no
Dioxins & Furans (15.7% Oxygen correction)	Nanograms per cubic metre	Quarterly in duplicate	2	0.0077	0.0094	0.300000	no
Dry Gas Density	Kilograms per cubic metre	Quarterly in duplicate	40	1.32	1.32		no
Fine Particulates	Milligrams per cubic metre	Quarterly in duplicate	2	2.4	2.6		no
Hydrogen Chloride	Milligrams per cubic metre	Quarterly in duplicate	2	31	33		no
Hydrogen Fluoride	Milligrams per cubic metre	Quarterly in duplicate	2	4.1	4.6		no
Lead	Milligrams per cubic metre	Quarterly in duplicate	2	0.051	0.054		no
Manganese	Milligrams per cubic metre	Quarterly in duplicate	2	0.0048	0.0066		no
Moisture	Percent	Quarterly in duplicate	40	8.6	11		no
Molecular Weight of stack gases	grams per gram mole	Quarterly in duplicate	40	29.6	29.6		no
Nickel	Milligrams per cubic metre	Quarterly in duplicate	2	0.00028	0.00036		no
Nitrogen Oxides	Milligrams per cubic metre	Quarterly	22	240	288	2,000.00	no
Oxygen (O2)	Percent	Quarterly in duplicate	26	16	17		no
Solid Particles	Milligrams per cubic metre	Quarterly in duplicate	2	3.6	8.5	20.00	no
Sulfuric acid mist and sulphur trioxide (as SO3)	Milligrams per cubic metre	Quarterly in duplicate	2	5.5	7.4	100.00	no
Sulphur Dioxide - UV	Milligrams per cubic metre	Quarterly	24	44	67	1,000.00	no
Temperature	Degrees Celcius	Quarterly in duplicate	40	137	138		no
Velocity	Metres per second	Quarterly in duplicate	40	16	18		no



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) *
Volumetric flowrate	Cubic metres per second	Quarterly in duplicate	40	320	360		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	8	1.29	1.29		no
Hydrogen Sulphide	Grams per second	Quarterly	1	0.23	0.23	1.20	no
Moisture	Percent	Quarterly	8	3.8	5.3		no
Molecular Weight of stack gases	grams per gram mole	Quarterly	8	28.9	28.9		no
Temperature	Degrees Celcius	Quarterly	8	28	34		no
Velocity	Metres per second	Quarterly	8	1.6	1.9		no
Volumetric flowrate	Cubic metres per second	Quarterly	9	18	21		no
Comment:							



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	5	0.033	0.052	0.053	0.082
Fine Particulates	Micrograms per cubic metre	Continuous	Continuous	4	13	12	25
Iron	Micrograms per cubic metre	Every 6 days	5	0.23	1.6	2.2	2.8
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	3.1	3.1	3.10	3.1
Polycyclic aromatic hydrocarbons	Nanograms per cubic metre	24 hour period every 6 days.	5	0.61	0.81	0.66	1.4
Total suspended particles	Micrograms per cubic metre	Every 6 days	5	11	29	39	40
Type 1 and Type 2 substances in aggregate	Micrograms per cubic metre	Quarterly	2	0.093	0.097	0.10	0.1
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	0.039	0.050	0.041	0.071
Fine Particulates	Micrograms per cubic metre	Continuous	Continuous	3	19	20	26
Iron	Micrograms per cubic metre	Every 6 days	5	0.89	1.7	1.9	2.5
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	3.7	3.7	3.70	3.7
Polycyclic aromatic hydrocarbons	Nanograms per cubic metre	24 hour period every 6 days.	5	0.61	0.94	0.62	2.2
Total suspended particles	Micrograms per cubic metre	Every 6 days	5	30	36	32	51
Type 1 and Type 2 substances in aggregate	Micrograms per cubic metre	Quarterly	2	0.045	0.055	0.06	0.065
Zinc	Micrograms per cubic metre	Every 6 days	5	<0.11	0.12	0.06	0.37
Comment:							

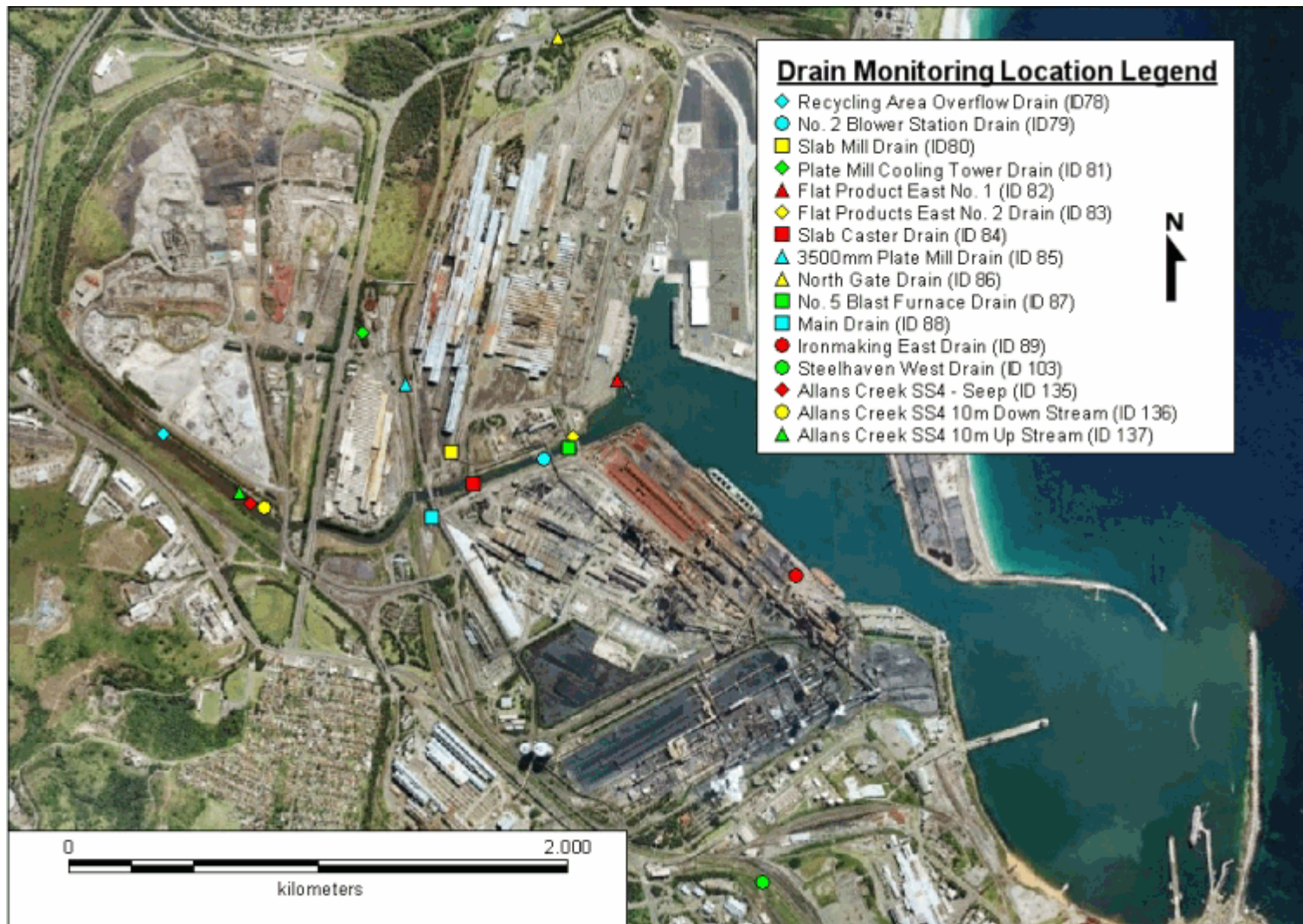
Point 153: Receiver 3 (located west of licensed site)

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	0.39	1.1	0.78	2.1
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	<1	24	26	41
Type 1 and Type 2 substances in aggregate	Micrograms per cubic metre	Quarterly	2	0.023	0.032	0.03	0.041
Zinc	Micrograms per cubic metre	Every 6 days	5	<0.11	<0.11	0.06	<0.11
Comment:							

Date Obtained: 20/06/2023

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	36.133	0.00	442
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	6	<0.06	<0.06	5.0 (5.0)	no
Cyanide	Milligrams per litre	Every 8 days	6	<0.02	<0.02	0.30 (0.30)	no
Filtrable Iron	Milligrams per litre	Every 8 days	6	<0.013	<0.013	0.3 (0.3)	no
Oil and Grease	Milligrams per litre	Every 8 days	6	<5	<5	20 (50)	no
pH		Every 8 days	6	8	8.4	6.5-9.0 (6.5-9.0)	no
Temperature	Degrees Celcius	Every 8 days	6	28.5	31.5	40 (40)	no
Total Iron	Milligrams per litre	Every 8 days	6	0.13	0.89	3 (50)	no
Total Suspended Solids	Milligrams per litre	Every 8 days	6	<3	7	50 (500)	no
Total Zinc	Milligrams per litre	Every 8 days	6	<0.05	0.075	3 (3)	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	614221	668613		
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	400	3082		
Comment:							

Date Obtained: 20/06/2023



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	216	2460		
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	0			0.15 (0.00)	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	0	678		
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	35.00	no
Total Suspended Solids	Milligrams per litre	24/year. Min 15 days apart	2	<3	5	50.00	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	32616	34652		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	0.014	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	21	22.2	40 (40)	no
Total Iron	Milligrams per litre	Every 8 days	4	0.22	0.32	7 (100)	no
Total Suspended Solids	Milligrams per litre	Every 8 days	4	4	9	70 (500)	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	2060	2385		
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	8.1	8.1	6.5-9.0 (6.5-9.0)	no
Temperature	Degrees Celcius	24/year. Min 15 days apart	2	20	22.5	40 (40)	no
Total Suspended Solids	Milligrams per litre	24/year. Min 15 days apart	2	3	6	100 (200)	no
Total Zinc	Milligrams per litre	24/year. Min 15 days apart	2	<0.05	0.082	3 (3)	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	30941	47507		
Comment:							

Date Obtained: 20/06/2023



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:							