



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

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

[Link to Environment Protection Licence EPL6092](#)

**LICENCE MONITORING DATA**  
**MONTHLY SUMMARY REPORT**

for

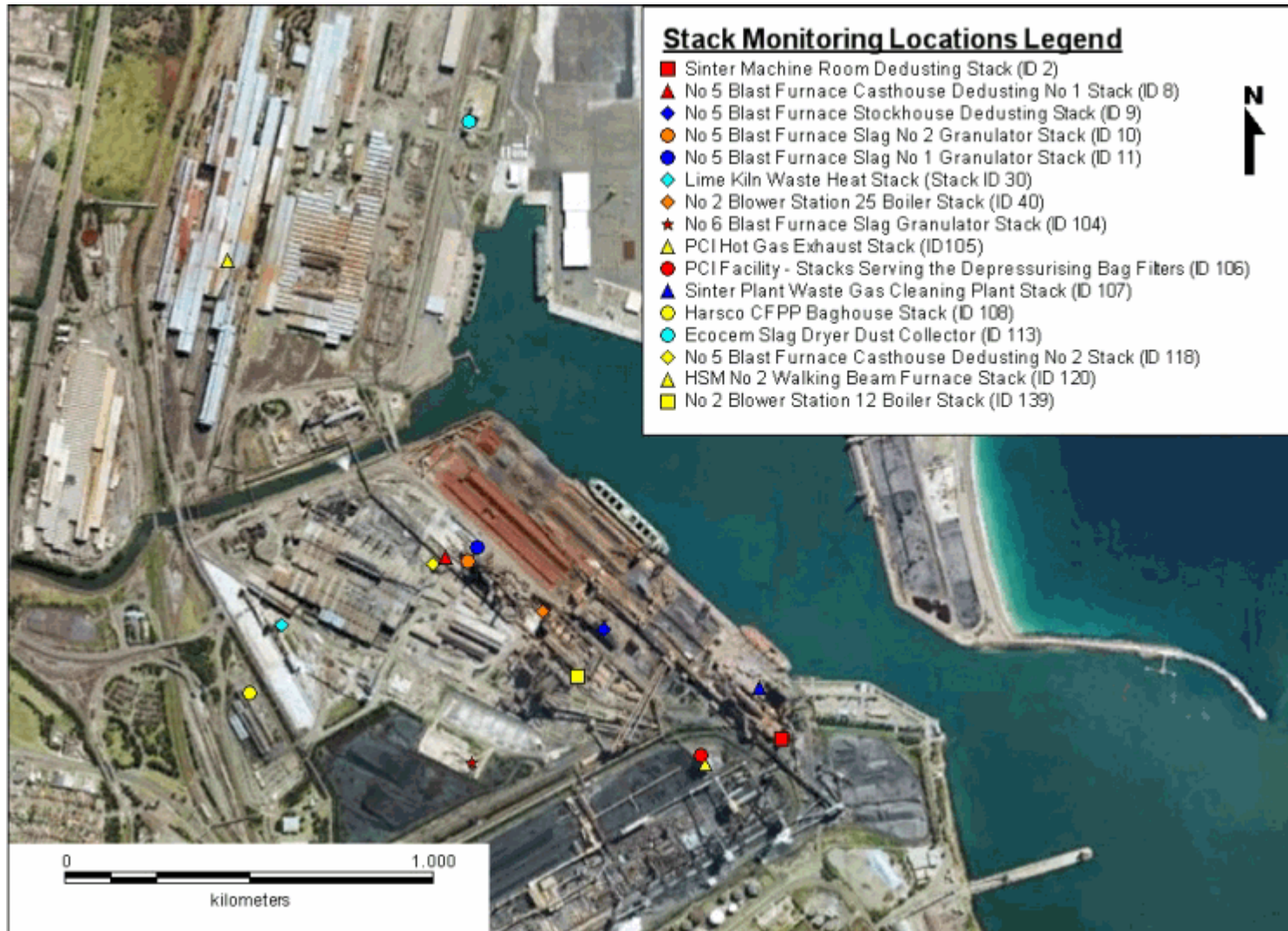
**1 Feb 2020 to 29 Feb 2020**

Monthly (February 2020) Report Published: 27, May, 2020

Date Obtained: 25/05/2020

## Stack Air Monitoring Requirements

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





**Point 120:**

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) *
Carbon Dioxide	Percent	Yearly	4	4.4	4.7		no
Carbon Monoxide (7% Oxygen correction)	Milligrams per cubic metre	Yearly	4	11	32	400	no
Dry Gas Density	Kilograms per cubic metre	Yearly	10	1.29	1.33		no
Moisture	Percent	Yearly	10	14	14		no
Molecular Weight of stack gases	grams per gram mole	Yearly	10	29	29.7		no
Nitrogen Oxides (7% Oxygen correction)	Milligrams per cubic metre	Yearly	4	467	499	650	no
Oxygen (O2)	Percent	Yearly	4	11	12		no
Solid Particles (7% Oxygen corrected)	Milligrams per cubic metre	Yearly	1	30	30	30	no
Sulphur Dioxide (7% Oxygen correction)	Milligrams per cubic metre	Yearly	4	537	679	1,250	no
Temperature	Degrees Celcius	Yearly	10	192	234		no
Velocity	Metres per second	Yearly	10	8.2	9.6		no
Volumetric flowrate	Cubic metres per second	Yearly	10	30	37		no
<b>Comment:</b>							

**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	23	6.5	7.1	7.6	-	-
Dioxins & Furans	nanograms per cubic metre	Weekly	1	0.11	0.11	0.11	0.3	No
Dry Gas Density	kilograms per cubic metre	Daily during testing	30	1.33	1.33	1.34	-	-
Flow	cubic metres per second	Daily during testing	30	220	237	240	-	-
Hydrogen Chloride	milligrams per cubic metre	Weekly	1	30	30	30	-	-
Hydrogen Fluoride	milligrams per cubic metre	Weekly	1	2.8	2.8	2.8	-	-
Moisture content	percent	Daily during testing	30	11	11	14	-	-
Molecular weight of stack gas	grams per gram mole	Daily during testing	30	29.8	29.8	30.1	-	-
Nitrogen Oxides	milligrams per cubic metre	Weekly	23	325	349	370	2000	No
Oxygen	percent	Daily during testing	23	15	15	16	-	-
Solid Particles	milligrams per cubic metre	Weekly	3	1.5	1.7	1.9	20	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) *
Sulphuric acid mist and sulphur trioxide (SO <sub>3</sub> )	milligrams per cubic metre	Weekly	1	67	67	67	100	No
Sulphur dioxide	milligrams per cubic metre	Weekly	23	274	342	372	1000	No
Temperature	degrees Celsius	Daily during testing	30	161	169	184	-	-
Velocity	metres per second	Daily during testing	30	13	14	14	-	-
Volumetric flowrate	cubic metres per second	Daily during testing	30	220	237	240	-	-
Type 1 Substances	milligrams per cubic metre	Weekly	1	0.014	0.014	0.014	-	-
Type 2 Substances	milligrams per cubic metre	Weekly	1	0.003	0.003	0.003	-	-

**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	2	6.8	6.8	6.9	20	No



**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	3.5	3.6	8.5
<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	0.4	7.4	7	38.9
<b>Comment:</b> Elevated results associated with plant shutdown and startup. The Sinter Plant by-pass of Point 107 commenced on the 18th February, online monitoring results were measured up until the 17th February.							

**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	1.0	8.2	8.2	18.6
<b>Comment:</b>							



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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
<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	0.021	0.058	0.037	0.1
Fine Particulates	Micrograms per cubic metre	Continuous	Continuous	8	24	23	42
Iron	Micrograms per cubic metre	Every 6 days	5	0.26	1.692	1.10	3.6
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	1	1	1.0	1
Polycyclic aromatic hydrocarbons	Nanograms per cubic metre	24 hour period every 6 days.	5	0.61	1.592	1.20	3.7
Total suspended particles	Micrograms per cubic metre	Every 6 days	5	37	66.6	66	110
Zinc	Micrograms per cubic metre	Every 6 days	5	<0.11	0.122	0.06	0.39
<b>Comment:</b>							



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

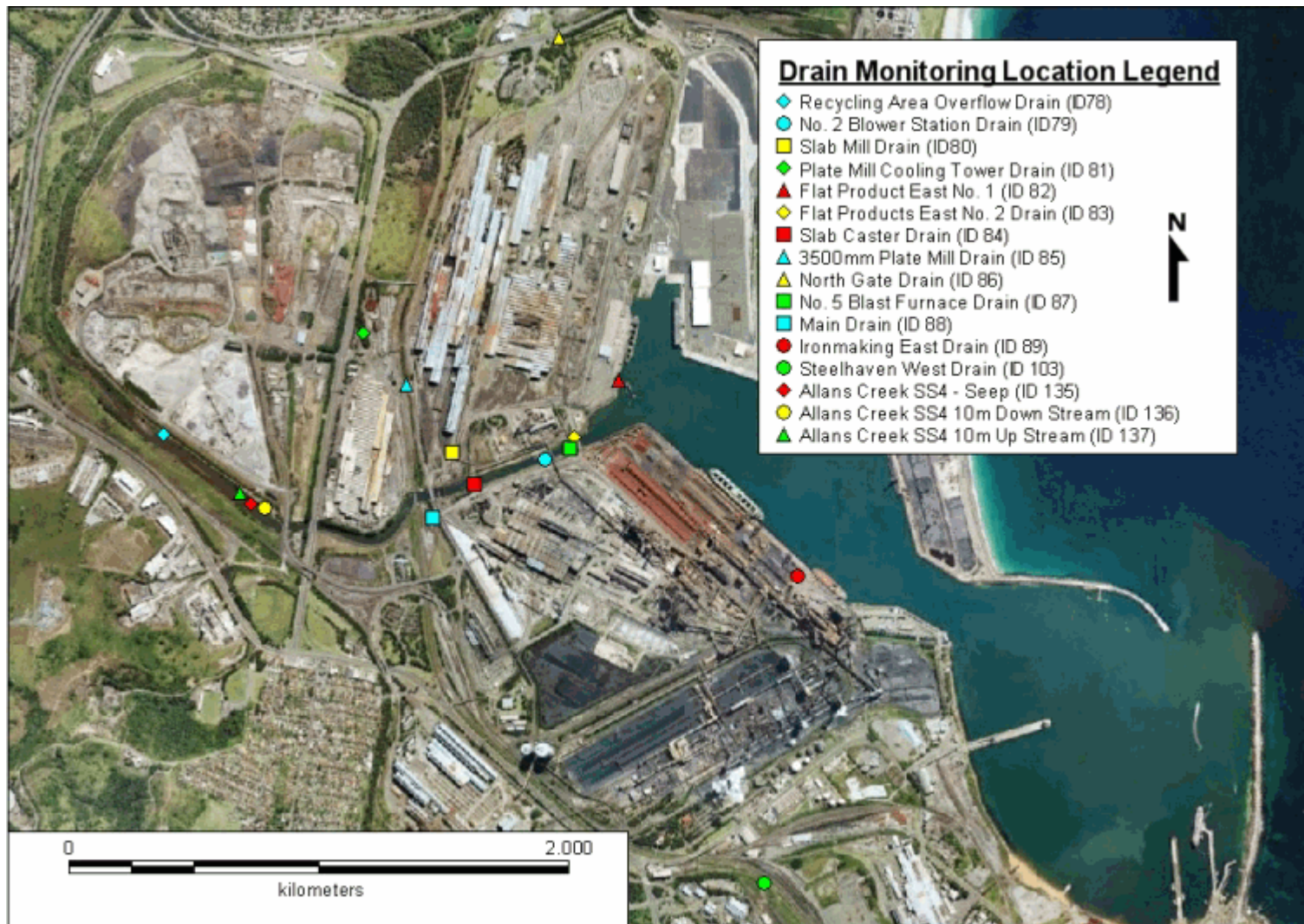
Pollutant	Units of Measure	Monitoring frequency required by licence	No. of times measured during month	Min. Value	Mean Value	Median Value	Max. Value
Benzene	Parts per billion	Every 6 days	5	0.037	0.055	0.06	0.075
Fine Particulates	Micrograms per cubic metre	Continuous	Continuous	14	28	24	60
Iron	Micrograms per cubic metre	Every 6 days	5	0.52	2.404	2.00	3.9
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	0.98	0.98	0.98	0.98
Polycyclic aromatic hydrocarbons	Nanograms per cubic metre	24 hour period every 6 days.	5	0.62	0.998	0.88	1.5
Total suspended particles	Micrograms per cubic metre	Every 6 days	5	45	79.8	70.0	140
Zinc	Micrograms per cubic metre	Every 6 days	5	<0.11	0.176	0.14	0.35
<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	0.56	1.512	1.30	2.8
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	42	73.6	58.0	130
Zinc	Micrograms per cubic metre	Every 6 days	5	<0.11	<0.11	0.06	0.12
<b>Comment:</b>							

## 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
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	0	231	0	2754
<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 (yes / no) *
Ammonia	Milligrams per litre	Every 8 days	4	<0.06	0.25	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	0.06	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	8.1	8.2	6.5-9.0 (6.5-9.0)	no
Temperature	Degrees Celcius	Every 8 days	4	29	30	40 (40)	no
Total Iron	Milligrams per litre	Every 8 days	4	0.11	0.16	3 (50)	no
Total Suspended Solids	Milligrams per litre	Every 8 days	4	10	15	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	554113	642420		
<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 (yes / no) *
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	1039	18562		
<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 (yes / no) *
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	35	11129		
<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 (yes / no) *
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	0	2666		
<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 (yes / no) *
Oil and Grease	Milligrams per litre	24/year. Min 15 days apart	2	<5	<5	20	no
pH		24/year. Min 15 days apart	2	8.1	8.2	6.5-9.0	no
Temperature	Degrees Celcius	24/year. Min 15 days apart	2	24	24	35	no
Total Suspended Solids	Milligrams per litre	24/year. Min 15 days apart	2	12	14	50	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	33667	41925		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 (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	8.1	8.2	6.5-11.0 (6.5-11.0)	no
Temperature	Degrees Celcius	Every 8 days	4	22	24	40 (40)	no
Total Iron	Milligrams per litre	Every 8 days	4	0.18	1.1	7 (100)	no
Total Suspended Solids	Milligrams per litre	Every 8 days	4	4	24	70 (500)	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	1745	2679		
<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 (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	23	23	40 (40)	no
Total Suspended Solids	Milligrams per litre	24/year. Min 15 days apart	2	13	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	26913	231395		
<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 (yes / no) *
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	0	9590		
<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	<0.06	<0.06	0.03	<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	8.3	8.3	8.3	8.3
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	26	26	26	26
<b>Comment:</b>							