

**Environmental Monitoring Data:- EPA License Number 549**

**Site Name:** IXOM Operations Pty Ltd  
**Site Address:** Gate 1, Foreshore Road, Port Kembla, NSW, 2505  
 The site has three Licensed Discharge Points as detailed in the monitoring data tables below: **LDP1, LDP2 and LDP 4**

**LDP1: SARP (Spent Acid Regeneration Plant) Stack**

**Description:** This is the large (80m) high concrete stack.  
**Pollutants Discharged:** This discharge point is licensed for discharge of Sulphur Dioxide (SO<sub>2</sub>) and Sulphur Trioxide (SO<sub>3</sub>)  
**Units Of Measure:** Both Sulphur Dioxide and Sulphur Trioxide are measured in mg/m<sup>3</sup> (milligrams per cubic meter)  
**Monitoring Frequency: Sulphur Dioxide** - Continuous Monitoring, licensed in 1hr block averages.  
**Monitoring Frequency: Sulphur Trioxide** - Testing conducted three times per licence period  
**Discharge limits** for this point are maximum concentrations: **Sulphur Dioxide** 1hr average maximum is 2800 mg/m<sup>3</sup>  
**Sulphur Trioxide** maximum is 50 mg/m<sup>3</sup> (minimum 1hr block average)  
 The data in the below table shows the maximum, minimum and average concentrations of **sulphur dioxide** measured on each 24hr day from midnight to midnight. For **Sulphur Trioxide** the data presented is the result of the actual stack test and is reported against the actual day the test was conducted. There is a delay of several weeks between the test date and results being received.  
 The data in the below table is updated at two weekly intervals.

**LDP2: SMBS (Sodium MetaBisulphite Plant) Stack**

**Description:** This is the small white (22m) high stack adjacent to the white building on site  
**Pollutants Discharged:** This discharge point is licensed for discharge of Sulphur Dioxide (SO<sub>2</sub>)  
**Units Of Measure:** Sulphur Dioxide is measured in mg/m<sup>3</sup> (milligrams per cubic meter)  
**Monitoring Frequency: Sulphur Dioxide** - Continuous Monitoring, licensed in 1hr block averages.  
 Discharge limit for this point is maximum concentration: Sulphur Dioxide 1hr average maximum is 559 mg/m<sup>3</sup>  
 The data in the below table shows the maximum, minimum and average concentrations of **sulphur dioxide** measured on each 24hr day from midnight to midnight.  
 The data in the below table is updated at two weekly intervals.

**LDP4: Wastewater discharge to council drain adjacent to Tank 7**

**Description:** This is a wastewater discharge point which discharges treated wastewater only into the council drain which runs through the centre of the site  
 This drain discharges into the Port Kembla Outer Harbour and also carries storm water run off from the local area.  
**Pollutants Discharged:** This discharge point is licensed for discharge of treated wastewater containing a maximum concentration of Total Suspended Solids as well as finite pH range.  
**Units Of Measure:** Total Suspended Solids are measured in milligrams of solids per litre of wastewater discharged and pH is measured in standard pH units  
**Monitoring Frequency: Total Suspended Solids** - Continuous during discharge events  
**Monitoring Frequency: pH** - Continuous during discharge events  
**Discharge limits: pH** - The pH is measured in a defined range and the limits are 6.5<pH<8.5. The license applies to **AVERAGE pH** recorded on **each discharge event**.  
**TSS:** The maximum for TSS concentration is 40mg/L in dry weather and 150mg/L in wet weather (wet weather is defined as any 24hr period in which more than 10mm of rain falls). **The license applies to the AVERAGE TSS over each discharge event**  
**Volume:** - This discharge point also requires monitoring of total volume discharged each day and has a maximum allowed discharge volume of <1000kL/day  
 The data in the table below shows Maximum, Minimum and average values per day for TSS and pH as well as daily volume discharged and total rainfall recorded.  
 This data is updated every two weeks.

**Yearly Environmental Monitoring Data Summary (EPA reporting period 1 October 2020 to 30 September 2021)**

LDP1: SARP Stack				LDP2: SMBS Stack				LDP4: Wastewater Discharge adjacent to T7									
SO <sub>2</sub> max allowed		2800mg/m <sup>3</sup>		SO <sub>2</sub> max allowed		559mg/m <sup>3</sup>		pH Max allowed		8.5		TSS Max allowed (Dry Weather)		40mg/L			
SO <sub>3</sub> max allowed		50mg/m <sup>3</sup>						pH Min allowed		6.5		TSS Max Allowed (Wet Weather)		150mg/L			
												Max Monthly Volume discharged allowed:		28-31000 kL/mnth (1000kL/day)			
Month	SO <sub>2</sub> Max (mg/m <sup>3</sup> )	SO <sub>2</sub> Min (mg/m <sup>3</sup> )	SO <sub>2</sub> Average (mg/m <sup>3</sup> )	SO <sub>3</sub> result (mg/m <sup>3</sup> )		SO <sub>2</sub> Max (mg/m <sup>3</sup> )	SO <sub>2</sub> Min (mg/m <sup>3</sup> )	SO <sub>2</sub> Average (mg/m <sup>3</sup> )		pH Max	pH Min	pH Average	TSS Max (mg/L)	TSS Min (mg/L)	TSS Average (mg/L)	Total Volume (kL)	Rainfall per month (mm)
Oct-20	2056	0	605		Oct-20	11	0	3	Oct-20	8.3	6.8	8.0	37	14	21	1513	89
Nov-20	2065	0	1162	11	Nov-20	493	3	8	Nov-20	8.3	6.8	7.5	38	10	22	1606	74
Dec-20	2010	0	899		Dec-20	85	2	7	Dec-20	8.3	6.8	7.7	37	2	11	1455	38
Jan-21	0	0	0		Jan-21	158	0	6	Jan-21	8.3	6.8	7.7	21	3	11	843	82
Feb-21	1931	0	734		Feb-21	13	1	4	Feb-21	8.3	6.8	7.4	30	3	11	1345	93
Mar-21	2144	0	1107		Mar-21	14	1	5	Mar-21	8.4	6.8	7.6	27	3	11	1949	233
Apr-21	2484	0	809		Apr-21	58	0	4	Apr-21	8.4	6.7	7.5	34	3	9	1413	51
May-21	2314	0	874		May-21	50	0	5	May-21	8.3	6.7	7.6	37	4	14	1625	100
Jun-21	0	0	0		Jun-21	21	0	3	Jun-21	8.3	7.1	7.8	10	0	7	467	51
Jul-21	1793	0	133		Jul-21	116	1	5	Jul-21	8.3	6.7	7.8	14	2	7	764	40
Aug-21	2513	0	853		Aug-21	44	0	4	Aug-21	8.3	6.7	7.8	25	5	11	1182	101
Sep-21	2088	0	1056	18	Sep-21	17	0	2	Sep-21	8.4	6.7	7.6	38	4	13	1302	45
<b>Full Reporting Year Results</b>	<b>2513</b>	<b>0</b>	<b>686</b>	<b>13</b>		<b>493</b>	<b>0</b>	<b>5</b>		<b>8.4</b>	<b>6.7</b>	<b>7.7</b>	<b>38</b>	<b>0</b>	<b>12</b>	<b>15465</b>	<b>997</b>

Environmental Monitoring Data:- EPA License Number 549

October 2020

Site Name: IXOM Operations Pty Ltd

Site Address: Gate 1, Foreshore Road, Port Kembla, NSW, 2505

The site has three Licensed Discharge Points as detailed in the monitoring data tables below: LDP1, LDP2 and LDP 4

Licensed Discharge Point 1 - SARP Stack

Limits:		SO2 Max: 2800mg/m3			SO3 Max: 50mg/m3	
Day	Date	SO2 Maximum (mg/m3)	SO2 Minimum (mg/m3)	SO2 Average (mg/m3)	SO3 Result (mg/m3)	Sampling Information ( sampling for SO <sub>3</sub> conducted three times per year )
Thursday	1/10/2020	0	0	0		
Friday	2/10/2020	0	0	0		
Saturday	3/10/2020	0	0	0		
Sunday	4/10/2020	0	0	0		
Monday	5/10/2020	0	0	0		
Tuesday	6/10/2020	0	0	0		
Wednesday	7/10/2020	0	0	0		
Thursday	8/10/2020	0	0	0		
Friday	9/10/2020	0	0	0		
Saturday	10/10/2020	0	0	0		
Sunday	11/10/2020	0	0	0		
Monday	12/10/2020	0	0	0		
Tuesday	13/10/2020	0	0	0		
Wednesday	14/10/2020	0	0	0		
Thursday	15/10/2020	15	0	1		
Friday	16/10/2020	1867	0	263		
Saturday	17/10/2020	1928	0	560		
Sunday	18/10/2020	2056	0	722		
Monday	19/10/2020	1783	754	1456		
Tuesday	20/10/2020	1963	606	1342		
Wednesday	21/10/2020	1779	962	1460		
Thursday	22/10/2020	1772	1300	1547		
Friday	23/10/2020	1568	660	1144		
Saturday	24/10/2020	1905	941	1363		
Sunday	25/10/2020	1203	816	999		
Monday	26/10/2020	1882	767	1480		
Tuesday	27/10/2020	2041	941	1369		
Wednesday	28/10/2020	1783	822	1213		
Thursday	29/10/2020	1834	1137	1461		
Friday	30/10/2020	1551	860	1195		
Saturday	31/10/2020	1872	928	1180		
<b>Monthly Results</b>		<b>2056</b>	<b>0</b>	<b>605</b>		

Licensed Discharge Point 2: SMBS Stack

Limits:		SO2 Max: 560mg/m3		
Day	Date	SO2 Maximum (mg/m3)	SO2 Minimum (mg/m3)	SO2 Average (mg/m3)
Thursday	1/10/2020	10	0	1
Friday	2/10/2020	7	0	2
Saturday	3/10/2020	4	0	1
Sunday	4/10/2020	3	0	1
Monday	5/10/2020	4	0	1
Tuesday	6/10/2020	10	0	2
Wednesday	7/10/2020	2	0	1
Thursday	8/10/2020	11	0	2
Friday	9/10/2020	2	0	1
Saturday	10/10/2020	3	0	1
Sunday	11/10/2020	4	0	2
Monday	12/10/2020	5	0	2
Tuesday	13/10/2020	9	0	2
Wednesday	14/10/2020	3	0	1
Thursday	15/10/2020	3	1	2
Friday	16/10/2020	5	0	3
Saturday	17/10/2020	6	3	5
Sunday	18/10/2020	7	4	5
Monday	19/10/2020	11	3	5
Tuesday	20/10/2020	10	3	6
Wednesday	21/10/2020	11	3	5
Thursday	22/10/2020	9	3	5
Friday	23/10/2020	6	2	4
Saturday	24/10/2020	6	3	4
Sunday	25/10/2020	5	1	3
Monday	26/10/2020	6	1	3
Tuesday	27/10/2020	6	2	4
Wednesday	28/10/2020	8	2	4
Thursday	29/10/2020	7	2	5
Friday	30/10/2020	8	2	5
Saturday	31/10/2020	8	3	5
<b>Monthly Results</b>		<b>11</b>	<b>0</b>	<b>3</b>

Licensed Discharge Point 4: Wastewater discharge adjacent to T7

Limits:		pH Max 8.5	pH Min 6.5		TSS Max: Dry weather 40mg/L	1000kl per day Max	Wet Weather >10mm/24hrs		
Day	Date	pH Max	pH Min	pH Average	TSS Max (mg/L)	TSS min (mg/L)	TSS Average (mg/L)	Total Volume discharged per day (kL)	Rainfall per day - 24hrs (mm)
Thursday	1/10/2020	8.2	7.8	8.0	21	19	20	53.1	0
Friday	2/10/2020	8.3	8.2	8.3	23	21	22	53.8	2
Saturday	3/10/2020	8.3	8.1	8.2	23	21	22	32.0	0
Sunday	4/10/2020	8.3	8.0	8.2	23	21	22	47.4	0
Monday	5/10/2020	8.3	8.2	8.3	23	20	21	36.2	0
Tuesday	6/10/2020	8.3	8.2	8.2	21	19	20	38.4	0
Wednesday	7/10/2020	8.3	7.0	8.0	20	19	19	41.6	0
Thursday	8/10/2020	8.3	8.0	8.2	20	18	19	47.4	3
Friday	9/10/2020	8.3	7.9	8.1	20	19	20	44.9	0
Saturday	10/10/2020	8.2	7.9	8.1	27	20	23	39.7	0
Sunday	11/10/2020	8.3	8.1	8.2	27	26	27	14.9	0
Monday	12/10/2020	8.3	8.3	8.3	25	25	25	4.9	0
Tuesday	13/10/2020	8.3	8.2	8.2	29	26	28	7.4	0
Wednesday	14/10/2020	8.3	8.2	8.3	29	15	19	17.4	0
Thursday	15/10/2020	8.3	8.2	8.3	16	15	16	14.8	0
Friday	16/10/2020	8.3	8.1	8.2	16	15	15	18.0	0
Saturday	17/10/2020	8.3	8.3	8.3	15	14	15	36.4	1
Sunday	18/10/2020	8.3	7.5	8.1	25	15	21	24.3	0
Monday	19/10/2020	8.3	8.1	8.2	29	21	23	55.3	5
Tuesday	20/10/2020	8.1	7.0	7.6	37	30	34	48.9	0
Wednesday	21/10/2020	8.3	7.3	7.9	33	14	18	44.4	0
Thursday	22/10/2020	8.2	7.0	7.6	17	14	15	58.8	0
Friday	23/10/2020	8.3	6.9	7.4	17	17	17	60.9	0
Saturday	24/10/2020	8.3	6.9	7.6	19	17	18	95.2	0
Sunday	25/10/2020	8.1	6.8	7.1	18	16	17	123.6	29
Monday	26/10/2020	7.9	6.8	7.3	22	16	20	126.2	21
Tuesday	27/10/2020	7.4	6.8	7.0	25	21	23	67.6	20
Wednesday	28/10/2020	8.3	7.7	8.2	33	23	29	63.5	1
Thursday	29/10/2020	8.3	7.6	8.2	25	23	24	77.3	0
Friday	30/10/2020	8.3	7.8	8.1	26	23	24	49.1	7
Saturday	31/10/2020	8.3	7.4	8.1	25	23	24	70.2	0
<b>Monthly Results</b>		<b>8.3</b>	<b>6.8</b>	<b>8.0</b>	<b>37</b>	<b>14</b>	<b>21</b>	<b>1513</b>	<b>89</b>

Environmental Monitoring Data- EPA License Number 549

November 2020

Site Name: IXOM Operations Pty Ltd

Site Address: Gate 1, Foreshore Road, Port Kembla, NSW, 2505

The site has three Licensed Discharge Points as detailed in the monitoring data tables below: LDP1, LDP2 and LDP 4

SO3 sample details:

3/11 - sampling completed

12/11 - results received

13/11 - results published

SO3 sample details:

17/11 - sampling completed

25/11 - results received

8/12 - results published

Licensed Discharge Point 1 - SARP Stack

Limits:		SO2 Max: 2800mg/m3			SO3 Max: 50mg/m3	
Day	Date	SO2 Maximum (mg/m3)	SO2 Minimum (mg/m3)	SO2 Average (mg/m3)	SO3 Result (mg/m3)	Sampling Information (sampling for SO <sub>3</sub> conducted three times per year)
Sunday	1/11/2020	1620	983	1297		
Monday	2/11/2020	1705	1046	1392		
Tuesday	3/11/2020	1459	662	1112	9	
Wednesday	4/11/2020	1715	811	1212		
Thursday	5/11/2020	1446	754	977		
Friday	6/11/2020	1562	721	1194		
Saturday	7/11/2020	1586	864	1151		
Sunday	8/11/2020	1674	884	1215		
Monday	9/11/2020	1488	912	1236		
Tuesday	10/11/2020	1462	899	1160		
Wednesday	11/11/2020	1493	987	1314		
Thursday	12/11/2020	1491	1097	1295		
Friday	13/11/2020	1703	1124	1333		
Saturday	14/11/2020	1755	1075	1286		
Sunday	15/11/2020	1654	959	1213		
Monday	16/11/2020	1857	1084	1410	13	
Tuesday	17/11/2020	1184	786	1019		
Wednesday	18/11/2020	2065	751	1115		
Thursday	19/11/2020	1734	0	637		
Friday	20/11/2020	1957	0	322		
Saturday	21/11/2020	2017	695	1295		
Sunday	22/11/2020	1503	898	1261		
Monday	23/11/2020	1631	1027	1304		
Tuesday	24/11/2020	1631	1027	1304		
Wednesday	25/11/2020	1658	1027	1308		
Thursday	26/11/2020	1734	662	1150		
Friday	27/11/2020	1633	624	1131		
Saturday	28/11/2020	1526	915	1149		
Sunday	29/11/2020	1780	472	1209		
Monday	30/11/2020	1428	0	864		
<b>Monthly Results</b>		<b>2065</b>	<b>0</b>	<b>1162</b>	<b>11</b>	

Licensed Discharge Point 2: SMBS Stack

Limits:		SO2 Max: 560mg/m3		
Day	Date	SO2 Maximum (mg/m3)	SO2 Minimum (mg/m3)	SO2 Average (mg/m3)
Sunday	1/11/2020	8	4	6
Monday	2/11/2020	7	3	5
Tuesday	3/11/2020	8	3	6
Wednesday	4/11/2020	10	5	7
Thursday	5/11/2020	18	3	7
Friday	6/11/2020	15	6	9
Saturday	7/11/2020	9	5	7
Sunday	8/11/2020	8	5	6
Monday	9/11/2020	14	5	10
Tuesday	10/11/2020	12	7	9
Wednesday	11/11/2020	11	6	8
Thursday	12/11/2020	11	7	9
Friday	13/11/2020	11	5	8
Saturday	14/11/2020	9	4	6
Sunday	15/11/2020	10	6	7
Monday	16/11/2020	8	5	6
Tuesday	17/11/2020	8	3	6
Wednesday	18/11/2020	6	3	4
Thursday	19/11/2020	13	4	6
Friday	20/11/2020	8	5	7
Saturday	21/11/2020	9	3	6
Sunday	22/11/2020	12	5	7
Monday	23/11/2020	11	6	9
Tuesday	24/11/2020	9	5	7
Wednesday	25/11/2020	8	3	5
Thursday	26/11/2020	8	4	7
Friday	27/11/2020	9	4	7
Saturday	28/11/2020	13	8	10
Sunday	29/11/2020	493	6	30
Monday	30/11/2020	10	6	8
<b>Monthly Results</b>		<b>493</b>	<b>3</b>	<b>8</b>

Licensed Discharge Point 4: Wastewater discharge adjacent to T7

Limits:		pH Max 8.5	pH Min 6.5		TSS Max: Dry weather 40mg/L	1000kl per day Max	Wet Weather >10mm/24hrs		
Day	Date	pH Max	pH Min	pH Average	TSS Max (mg/L)	TSS min (mg/L)	TSS Average (mg/L)	Total Volume discharged per day (kl)	Rainfall per day - 24hrs (mm)
Sunday	1/11/2020	8.2	6.8	7.3	28	23	26	76.0	7
Monday	2/11/2020	8.2	6.8	7.3	36	28	32	54.6	12
Tuesday	3/11/2020	7.7	6.9	7.2	38	24	34	45.5	0
Wednesday	4/11/2020	7.6	6.8	7.1	37	29	34	37.6	0
Thursday	5/11/2020	7.7	6.9	7.2	29	20	23	118.8	10
Friday	6/11/2020	7.5	7.0	7.3	23	19	21	69.5	30
Saturday	7/11/2020	7.5	6.9	7.2	27	25	25	59.4	0
Sunday	8/11/2020	7.2	6.8	6.9	29	26	27	67.3	0
Monday	9/11/2020	8.3	6.8	7.4	33	29	31	62.7	0
Tuesday	10/11/2020	8.2	6.8	7.5	32	30	31	45.2	0
Wednesday	11/11/2020	7.9	6.9	7.3	33	13	24	59.1	0
Thursday	12/11/2020	8.2	7.4	7.7	13	13	13	54.4	0
Friday	13/11/2020	8.2	7.0	7.6	24	13	16	58.6	0
Saturday	14/11/2020	7.4	7.1	7.2	23	22	23	58.1	10
Sunday	15/11/2020	7.2	6.9	7.0	25	23	24	57.7	0
Monday	16/11/2020	7.2	6.8	7.0	28	26	27	52.1	0
Tuesday	17/11/2020	7.4	6.9	7.1	38	29	32	69.3	0
Wednesday	18/11/2020	8.3	7.2	8.0	30	13	18	48.0	0
Thursday	19/11/2020	8.3	8.2	8.2	14	13	13	44.5	0
Friday	20/11/2020	8.2	8.0	8.2	19	16	17	32.0	0
Saturday	21/11/2020	8.3	8.1	8.2	16	12	13	49.3	0
Sunday	22/11/2020	8.2	8.0	8.1	12	12	12	39.2	0
Monday	23/11/2020	8.2	7.2	7.9	36	12	24	43.6	0
Tuesday	24/11/2020	8.1	7.2	7.7	34	28	30	63.9	5
Wednesday	25/11/2020	7.9	6.9	7.3	31	12	20	52.0	0
Thursday	26/11/2020	8.3	7.9	8.1	12	12	12	47.8	0
Friday	27/11/2020	8.3	8.1	8.2	11	10	11	43.4	0
Saturday	28/11/2020	8.1	7.8	8.0	13	10	11	39.4	0
Sunday	29/11/2020	8.1	6.8	7.3	14	12	14	9.8	0
Monday	30/11/2020	8.1	6.9	7.8	15	13	14	47.5	0
<b>Monthly Results</b>		<b>8.3</b>	<b>6.8</b>	<b>7.5</b>	<b>38</b>	<b>10</b>	<b>22</b>	<b>1606</b>	<b>74</b>

Licensed Discharge Point 1 - SARP Stack

Limits:		SO2 Max: 2800mg/m3			SO3 Max: 50mg/m3	
Day	Date	SO2 Maximum (mg/m3)	SO2 Minimum (mg/m3)	SO2 Average (mg/m3)	SO3 Result (mg/m3)	Sampling Information ( sampling for SO <sub>3</sub> conducted three times per year )
Tuesday	1/12/2020	1982	1011	1522		
Wednesday	2/12/2020	1790	901	1260		
Thursday	3/12/2020	1470	1051	1300		
Friday	4/12/2020	1810	813	1260		
Saturday	5/12/2020	1682	1129	1405		
Sunday	6/12/2020	1767	771	1166		
Monday	7/12/2020	1809	1104	1337		
Tuesday	8/12/2020	1520	1058	1283		
Wednesday	9/12/2020	1668	946	1390		
Thursday	10/12/2020	1553	722	1137		
Friday	11/12/2020	1874	907	1236		
Saturday	12/12/2020	1288	611	891		
Sunday	13/12/2020	1178	917	1081		
Monday	14/12/2020	1323	902	1147		
Tuesday	15/12/2020	1751	1072	1351		
Wednesday	16/12/2020	1725	1134	1490		
Thursday	17/12/2020	2010	1197	1550		
Friday	18/12/2020	1551	1239	1387		
Saturday	19/12/2020	1343	1041	1197		
Sunday	20/12/2020	1371	1087	1235		
Monday	21/12/2020	1451	822	1206		
Tuesday	22/12/2020	1334	208	1046		
Wednesday	23/12/2020	0	0	0		
Thursday	24/12/2020	0	0	0		
Friday	25/12/2020	0	0	0		
Saturday	26/12/2020	0	0	0		
Sunday	27/12/2020	0	0	0		
Monday	28/12/2020	0	0	0		
Tuesday	29/12/2020	0	0	0		
Wednesday	30/12/2020	0	0	0		
Thursday	31/12/2020	0	0	0		
<b>Monthly Results</b>		2010	0	899		

Licensed Discharge Point 2: SMBS Stack

Limits:		SO2 Max: 560mg/m3		
Day	Date	SO2 Maximum (mg/m3)	SO2 Minimum (mg/m3)	SO2 Average (mg/m3)
Tuesday	1/12/2020	10	6	9
Wednesday	2/12/2020	10	6	7
Thursday	3/12/2020	10	8	9
Friday	4/12/2020	11	4	7
Saturday	5/12/2020	7	4	5
Sunday	6/12/2020	7	4	6
Monday	7/12/2020	12	5	7
Tuesday	8/12/2020	11	5	9
Wednesday	9/12/2020	11	6	9
Thursday	10/12/2020	12	5	7
Friday	11/12/2020	12	5	7
Saturday	12/12/2020	11	5	8
Sunday	13/12/2020	5	2	4
Monday	14/12/2020	7	2	4
Tuesday	15/12/2020	8	4	6
Wednesday	16/12/2020	8	5	6
Thursday	17/12/2020	8	5	6
Friday	18/12/2020	14	4	6
Saturday	19/12/2020	8	4	6
Sunday	20/12/2020	9	5	7
Monday	21/12/2020	7	3	5
Tuesday	22/12/2020	8	4	6
Wednesday	23/12/2020	6	2	4
Thursday	24/12/2020	85	4	16
Friday	25/12/2020	5	4	5
Saturday	26/12/2020	6	4	5
Sunday	27/12/2020	9	4	6
Monday	28/12/2020	9	3	6
Tuesday	29/12/2020	5	3	4
Wednesday	30/12/2020	9	4	5
Thursday	31/12/2020	45	4	7
<b>Monthly Results</b>		85	2	7

Licensed Discharge Point 4: Wastewater discharge adjacent to T7

Limits:		pH Max 8.5	pH Min 6.5		TSS Max: Dry weather 40mg/L	1000kl per day Max	Wet Weather >10mm/24hrs		
Day	Date	pH Max	pH Min	pH Average	TSS Max (mg/L)	TSS min (mg/L)	TSS Average (mg/L)	Total Volume discharged per day (kl)	Rainfall per day - 24hrs (mm)
Tuesday	1/12/2020	8.1	7.0	7.4	14	11	12	59.0	0
Wednesday	2/12/2020	7.7	7.3	7.5	13	9	11	61.2	4
Thursday	3/12/2020	8.1	6.9	7.6	25	10	21	73.1	0
Friday	4/12/2020	7.6	7.2	7.4	30	25	27	52.8	0
Saturday	5/12/2020	8.2	7.0	7.7	37	11	24	47.6	0
Sunday	6/12/2020	8.0	7.6	7.8	23	22	22	39.3	0
Monday	7/12/2020	8.2	7.8	8.1	22	21	21	42.4	0
Tuesday	8/12/2020	8.1	7.5	7.8	21	18	20	49.5	0
Wednesday	9/12/2020	7.7	7.1	7.4	22	11	16	39.8	0
Thursday	10/12/2020	7.8	7.1	7.4	11	10	10	54.0	0
Friday	11/12/2020	8.2	8.0	8.1	9	6	7	44.5	0
Saturday	12/12/2020	8.1	7.2	7.8	8	5	7	47.9	0
Sunday	13/12/2020	8.2	7.5	8.0	11	8	9	63.8	2
Monday	14/12/2020	8.2	6.9	7.4	13	9	10	51.3	0
Tuesday	15/12/2020	7.8	7.3	7.6	11	9	9	49.0	1
Wednesday	16/12/2020	7.4	7.0	7.2	16	8	11	79.1	2
Thursday	17/12/2020	7.6	6.8	7.1	9	9	9	39.9	1
Friday	18/12/2020	7.6	6.9	7.2	9	9	9	44.4	2
Saturday	19/12/2020	8.2	7.6	7.9	9	7	8	58.1	0
Sunday	20/12/2020	8.1	7.8	8.0	9	8	8	44.5	0
Monday	21/12/2020	8.2	6.9	7.5	9	4	8	78.7	0
Tuesday	22/12/2020	8.3	6.9	7.8	5	2	4	80.9	11
Wednesday	23/12/2020	8.3	8.1	8.2	5	4	5	14.8	3
Thursday	24/12/2020	8.3	8.0	8.2	5	4	4	18.7	0
Friday	25/12/2020	8.2	8.1	8.1	4	4	4	9.4	0
Saturday	26/12/2020	8.2	7.6	7.8	6	4	5	41.9	0
Sunday	27/12/2020	8.3	7.1	7.6	5	4	4	64.5	1
Monday	28/12/2020	7.6	7.4	7.5	6	5	5	19.6	0
Tuesday	29/12/2020	8.2	7.4	7.9	6	5	6	36.9	5
Wednesday	30/12/2020	8.2	7.2	7.7	6	4	5	24.4	6
Thursday	31/12/2020	8.3	6.9	7.5	9	5	7	24.0	0
<b>Monthly Results</b>		8.3	6.8	7.7	37	2	11	1455	38

Environmental Monitoring Data:- EPA License Number 549

January 2021

Site Name: IXOM Operations Pty Ltd

Site Address: Gate 1, Foreshore Road, Port Kembla, NSW, 2505

The site has three Licensed Discharge Points as detailed in the monitoring data tables below: LDP1, LDP2 and LDP 4

Licensed Discharge Point 1 - SARP Stack

Limits:		SO2 Max: 2800mg/m3			SO3 Max: 50mg/m3	
Day	Date	SO2 Maximum (mg/m3)	SO2 Minimum (mg/m3)	SO2 Average (mg/m3)	SO3 Result (mg/m3)	Sampling Information ( sampling for SO <sub>3</sub> conducted three times per year )
Friday	1/01/2021	0	0	0		
Saturday	2/01/2021	0	0	0		
Sunday	3/01/2021	0	0	0		
Monday	4/01/2021	0	0	0		
Tuesday	5/01/2021	0	0	0		
Wednesday	6/01/2021	0	0	0		
Thursday	7/01/2021	0	0	0		
Friday	8/01/2021	0	0	0		
Saturday	9/01/2021	0	0	0		
Sunday	10/01/2021	0	0	0		
Monday	11/01/2021	0	0	0		
Tuesday	12/01/2021	0	0	0		
Wednesday	13/01/2021	0	0	0		
Thursday	14/01/2021	0	0	0		
Friday	15/01/2021	0	0	0		
Saturday	16/01/2021	0	0	0		
Sunday	17/01/2021	0	0	0		
Monday	18/01/2021	0	0	0		
Tuesday	19/01/2021	0	0	0		
Wednesday	20/01/2021	0	0	0		
Thursday	21/01/2021	0	0	0		
Friday	22/01/2021	0	0	0		
Saturday	23/01/2021	0	0	0		
Sunday	24/01/2021	0	0	0		
Monday	25/01/2021	0	0	0		
Tuesday	26/01/2021	0	0	0		
Wednesday	27/01/2021	0	0	0		
Thursday	28/01/2021	0	0	0		
Friday	29/01/2021	0	0	0		
Saturday	30/01/2021	0	0	0		
Sunday	31/01/2021	0	0	0		
<b>Monthly Results</b>		<b>0</b>	<b>0</b>	<b>0</b>		

Licensed Discharge Point 2: SMBS Stack

Limits:		SO2 Max: 560mg/m3		
Day	Date	SO2 Maximum (mg/m3)	SO2 Minimum (mg/m3)	SO2 Average (mg/m3)
Friday	1/01/2021	6	3	4
Saturday	2/01/2021	5	3	4
Sunday	3/01/2021	8	5	5
Monday	4/01/2021	9	4	6
Tuesday	5/01/2021	10	5	8
Wednesday	6/01/2021	7	4	6
Thursday	7/01/2021	8	4	6
Friday	8/01/2021	7	4	5
Saturday	9/01/2021	8	4	6
Sunday	10/01/2021	8	4	6
Monday	11/01/2021	18	5	7
Tuesday	12/01/2021	12	4	6
Wednesday	13/01/2021	9	5	7
Thursday	14/01/2021	7	4	6
Friday	15/01/2021	7	3	5
Saturday	16/01/2021	4	0	2
Sunday	17/01/2021	5	1	3
Monday	18/01/2021	8	3	5
Tuesday	19/01/2021	158	3	35
Wednesday	20/01/2021	5	0	2
Thursday	21/01/2021	12	0	3
Friday	22/01/2021	6	3	4
Saturday	23/01/2021	14	3	5
Sunday	24/01/2021	6	3	5
Monday	25/01/2021	5	3	4
Tuesday	26/01/2021	9	4	6
Wednesday	27/01/2021	8	2	4
Thursday	28/01/2021	4	1	3
Friday	29/01/2021	11	3	6
Saturday	30/01/2021	8	5	6
Sunday	31/01/2021	8	4	6
<b>Monthly Results</b>		<b>158</b>	<b>0</b>	<b>6</b>

Licensed Discharge Point 4: Wastewater discharge adjacent to T7

Limits:		pH Max 8.5	pH Min 6.5		TSS Max: Dry weather 40mg/L	1000kl per day Max	Wet Weather >10mm/24hrs		
Day	Date	pH Max	pH Min	pH Average	TSS Max (mg/L)	TSS min (mg/L)	TSS Average (mg/L)	Total Volume discharged per day (kl)	Rainfall per day - 24hrs (mm)
Friday	1/01/2021	7.6	7.5	7.5	9	8	9	9.8	0
Saturday	2/01/2021	8.2	7.2	7.8	8	5	6	83.2	2
Sunday	3/01/2021	8.1	7.0	7.6	13	5	8	85.9	12
Monday	4/01/2021	7.9	6.8	7.4	16	13	15	42.7	15
Tuesday	5/01/2021	8.1	6.9	7.6	21	14	17	39.9	11
Wednesday	6/01/2021	8.0	6.9	7.6	15	3	10	29.1	15
Thursday	7/01/2021	8.0	7.0	7.6	7	3	5	34.3	0
Friday	8/01/2021	7.4	7.4	7.4	7	7	7	6.6	5
Saturday	9/01/2021								0
Sunday	10/01/2021								0
Monday	11/01/2021	7.3	6.8	7.1	20	20	20	9.7	0
Tuesday	12/01/2021	7.2	7.2	7.2	18	18	18	2.4	0
Wednesday	13/01/2021	7.4	7.3	7.3	12	10	11	19.2	0
Thursday	14/01/2021	8.0	7.8	7.9	10	6	8	14.3	0
Friday	15/01/2021	8.3	8.3	8.3	13	13	13	3.1	0
Saturday	16/01/2021	8.0	8.0	8.0	12	12	12	2.7	0
Sunday	17/01/2021	8.1	8.1	8.1	12	12	12	3.5	0
Monday	18/01/2021	8.1	7.0	7.7	19	14	17	22.4	0
Tuesday	19/01/2021	7.9	7.1	7.5	13	9	11	19.6	0
Wednesday	20/01/2021	8.2	7.1	7.7	11	4	5	33.4	1
Thursday	21/01/2021	7.9	7.6	7.7	14	3	10	34.4	0
Friday	22/01/2021	7.8	7.2	7.4	11	9	10	22.4	0
Saturday	23/01/2021	7.5	7.0	7.1	11	8	9	26.9	0
Sunday	24/01/2021	8.2	7.7	7.9	10	8	9	17.1	0
Monday	25/01/2021	8.2	8.0	8.1	12	10	11	19.6	0
Tuesday	26/01/2021	8.2	8.1	8.2	11	10	11	9.8	0
Wednesday	27/01/2021	8.0	7.3	7.7	13	9	11	44.5	1
Thursday	28/01/2021	8.2	7.6	8.0	13	10	12	32.4	3
Friday	29/01/2021	8.2	7.4	7.9	13	9	11	46.3	1
Saturday	30/01/2021	7.9	6.9	7.4	13	6	8	84.6	1
Sunday	31/01/2021	8.1	6.8	7.4	10	7	9	42.9	15
<b>Monthly Results</b>		<b>8.3</b>	<b>6.8</b>	<b>7.7</b>	<b>21</b>	<b>3</b>	<b>11</b>	<b>843</b>	<b>82</b>

Environmental Monitoring Data:- EPA License Number 549

February 2021

Site Name: IXOM Operations Pty Ltd

Site Address: Gate 1, Foreshore Road, Port Kembla, NSW, 2505

The site has three Licensed Discharge Points as detailed in the monitoring data tables below: LDP1, LDP2 and LDP 4

Licensed Discharge Point 1 - SARP Stack

Limits:		SO2 Max: 2800mg/m3			SO3 Max: 50mg/m3	
Day	Date	SO2 Maximum (mg/m3)	SO2 Minimum (mg/m3)	SO2 Average (mg/m3)	SO3 Result (mg/m3)	Sampling Information ( sampling for SO <sub>3</sub> conducted three times per year )
Monday	1/02/2021	0	0	0		
Tuesday	2/02/2021	0	0	0		
Wednesday	3/02/2021	0	0	0		
Thursday	4/02/2021	2	0	0		
Friday	5/02/2021	1917	0	631		
Saturday	6/02/2021	1566	593	1237		
Sunday	7/02/2021	1724	1101	1300		
Monday	8/02/2021	1061	869	951		
Tuesday	9/02/2021	1179	920	1013		
Wednesday	10/02/2021	1323	897	1056		
Thursday	11/02/2021	1724	751	1085		
Friday	12/02/2021	1638	948	1316		
Saturday	13/02/2021	1643	819	1071		
Sunday	14/02/2021	970	727	881		
Monday	15/02/2021	1010	680	805		
Tuesday	16/02/2021	1635	718	1023		
Wednesday	17/02/2021	1745	968	1255		
Thursday	18/02/2021	1712	971	1324		
Friday	19/02/2021	1784	774	1419		
Saturday	20/02/2021	1931	952	1418		
Sunday	21/02/2021	1878	0	1001		
Monday	22/02/2021	0	0	0		
Tuesday	23/02/2021	0	0	0		
Wednesday	24/02/2021	59	0	3		
Thursday	25/02/2021	1318	0	509		
Friday	26/02/2021	1243	0	836		
Saturday	27/02/2021	1281	0	422		
Sunday	28/02/2021	0	0	0		
<b>Monthly Results</b>		1931	0	734		

Licensed Discharge Point 2: SMBS Stack

Limits:		SO2 Max: 560mg/m3		
Day	Date	SO2 Maximum (mg/m3)	SO2 Minimum (mg/m3)	SO2 Average (mg/m3)
Monday	1/02/2021	13	5	6
Tuesday	2/02/2021	8	5	6
Wednesday	3/02/2021	6	3	5
Thursday	4/02/2021	6	4	5
Friday	5/02/2021	6	3	4
Saturday	6/02/2021	4	2	3
Sunday	7/02/2021	4	1	3
Monday	8/02/2021	5	3	4
Tuesday	9/02/2021	4	2	4
Wednesday	10/02/2021	6	2	4
Thursday	11/02/2021	6	3	4
Friday	12/02/2021	6	4	5
Saturday	13/02/2021	5	3	4
Sunday	14/02/2021	5	2	4
Monday	15/02/2021	9	3	5
Tuesday	16/02/2021	6	4	5
Wednesday	17/02/2021	8	4	6
Thursday	18/02/2021	6	4	5
Friday	19/02/2021	7	3	5
Saturday	20/02/2021	5	3	4
Sunday	21/02/2021	8	3	4
Monday	22/02/2021	9	1	3
Tuesday	23/02/2021	3	1	2
Wednesday	24/02/2021	4	1	2
Thursday	25/02/2021	6	2	3
Friday	26/02/2021	7	2	4
Saturday	27/02/2021	12	4	5
Sunday	28/02/2021	7	4	6
<b>Monthly Results</b>		13	1	4

Licensed Discharge Point 4: Wastewater discharge adjacent to T7

Limits:		pH Max 8.5	pH Min 6.5		TSS Max: Dry weather 40mg/L Wet weather: 150mg/L	1000kl per day Max	Wet Weather >10mm/24hrs		
Day	Date	pH Max	pH Min	pH Average	TSS Max (mg/L)	TSS min (mg/L)	TSS Average (mg/L)	Total Volume discharged per day (kL)	Rainfall per day - 24hrs (mm)
Monday	1/02/2021	8.2	7.3	7.8	10	6	8	55.0	1
Tuesday	2/02/2021	7.9	7.1	7.5	10	6	8	79.2	30
Wednesday	3/02/2021	8.2	7.7	7.9	7	3	4	17.5	6
Thursday	4/02/2021	8.3	8.0	8.2	4	3	4	29.7	0
Friday	5/02/2021	8.1	7.9	8.0	5	3	4	27.3	0
Saturday	6/02/2021	8.3	7.7	8.1	7	4	5	29.4	0
Sunday	7/02/2021	7.9	6.9	7.3	6	5	5	47.9	1
Monday	8/02/2021	7.9	7.0	7.6	6	4	6	42.1	0
Tuesday	9/02/2021	7.3	6.8	6.9	5	4	5	46.5	0
Wednesday	10/02/2021	7.0	6.8	6.9	7	6	7	47.1	0
Thursday	11/02/2021	7.1	6.8	6.9	9	7	8	52.2	0
Friday	12/02/2021	7.5	6.8	7.1	10	9	9	63.5	0
Saturday	13/02/2021	7.8	6.8	7.1	10	8	8	97.1	18
Sunday	14/02/2021	7.2	6.8	6.9	9	8	8	49.1	0
Monday	15/02/2021	7.5	6.8	7.1	13	9	10	46.4	0
Tuesday	16/02/2021	8.0	6.9	7.3	16	9	11	122.8	0
Wednesday	17/02/2021	8.3	7.2	8.0	9	7	8	63.6	11
Thursday	18/02/2021	8.2	7.4	7.8	8	7	7	62.9	0
Friday	19/02/2021	8.3	7.7	8.0	18	7	16	57.5	0
Saturday	20/02/2021	7.8	6.8	7.1	21	18	20	54.5	1
Sunday	21/02/2021	7.5	6.8	6.9	28	22	25	47.8	0
Monday	22/02/2021	7.7	7.0	7.4	30	25	28	32.4	0
Tuesday	23/02/2021	7.5	7.4	7.5	24	22	23	9.9	0
Wednesday	24/02/2021	7.5	7.1	7.3	23	18	21	34.5	0
Thursday	25/02/2021	7.4	6.8	7.1	4	3	4	50.1	3
Friday	26/02/2021	7.7	6.8	7.0	14	3	10	42.1	22
Saturday	27/02/2021	8.1	6.9	7.2	15	14	14	24.5	0
Sunday	28/02/2021	7.3	7.0	7.1	13	10	12	12.3	0
<b>Monthly Results</b>		8.3	6.8	7.4	30	3	11	1345	93

Environmental Monitoring Data:- EPA License Number 549

March 2021

Site Name: IXOM Operations Pty Ltd

Site Address: Gate 1, Foreshore Road, Port Kembla, NSW, 2505

The site has three Licensed Discharge Points as detailed in the monitoring data tables below: LDP1, LDP2 and LDP 4

Licensed Discharge Point 1 - SARP Stack

Limits:		SO2 Max: 2800mg/m3			SO3 Max: 50mg/m3	
Day	Date	SO2 Maximum (mg/m3)	SO2 Minimum (mg/m3)	SO2 Average (mg/m3)	SO3 Result (mg/m3)	Sampling Information ( sampling for SO <sub>3</sub> conducted three times per year )
Monday	1/03/2021	844	0	42		
Tuesday	2/03/2021	1995	0	1018		
Wednesday	3/03/2021	1891	0	1042		
Thursday	4/03/2021	2136	946	1335		
Friday	5/03/2021	1979	969	1421		
Saturday	6/03/2021	1951	883	1386		
Sunday	7/03/2021	1446	0	922		
Monday	8/03/2021	1594	675	1291		
Tuesday	9/03/2021	1685	811	1227		
Wednesday	10/03/2021	1689	1044	1301		
Thursday	11/03/2021	1760	1143	1374		
Friday	12/03/2021	2056	1364	1668		
Saturday	13/03/2021	2019	834	1391		
Sunday	14/03/2021	1779	1033	1367		
Monday	15/03/2021	1871	991	1357		
Tuesday	16/03/2021	1581	1058	1419		
Wednesday	17/03/2021	2144	749	1225		
Thursday	18/03/2021	1833	907	1275		
Friday	19/03/2021	1723	953	1415		
Saturday	20/03/2021	1900	0	945		
Sunday	21/03/2021	1660	1053	1308		
Monday	22/03/2021	1689	984	1378		
Tuesday	23/03/2021	1719	0	1233		
Wednesday	24/03/2021	1652	454	1145		
Thursday	25/03/2021	1390	0	581		
Friday	26/03/2021	1	0	0		
Saturday	27/03/2021	1579	0	407		
Sunday	28/03/2021	1537	359	1139		
Monday	29/03/2021	1282	812	1046		
Tuesday	30/03/2021	1209	684	932		
Wednesday	31/03/2021	1396	0	728		
<b>Monthly Results</b>		<b>2144</b>	<b>0</b>	<b>1107</b>		

Licensed Discharge Point 2: SMBS Stack

Limits:		SO2 Max: 560mg/m3		
Day	Date	SO2 Maximum (mg/m3)	SO2 Minimum (mg/m3)	SO2 Average (mg/m3)
Monday	1/03/2021	8	5	6
Tuesday	2/03/2021	6	3	4
Wednesday	3/03/2021	5	2	4
Thursday	4/03/2021	7	4	6
Friday	5/03/2021	7	4	5
Saturday	6/03/2021	6	4	5
Sunday	7/03/2021	9	4	5
Monday	8/03/2021	10	6	8
Tuesday	9/03/2021	10	6	8
Wednesday	10/03/2021	9	5	7
Thursday	11/03/2021	8	5	7
Friday	12/03/2021	9	6	7
Saturday	13/03/2021	7	3	6
Sunday	14/03/2021	5	1	2
Monday	15/03/2021	4	1	2
Tuesday	16/03/2021	8	1	3
Wednesday	17/03/2021	8	3	5
Thursday	18/03/2021	5	4	4
Friday	19/03/2021	6	3	5
Saturday	20/03/2021	6	4	5
Sunday	21/03/2021	5	2	4
Monday	22/03/2021	7	3	5
Tuesday	23/03/2021	7	4	5
Wednesday	24/03/2021	11	4	6
Thursday	25/03/2021	11	4	7
Friday	26/03/2021	6	3	4
Saturday	27/03/2021	7	4	5
Sunday	28/03/2021	6	2	4
Monday	29/03/2021	8	3	5
Tuesday	30/03/2021	14	3	5
Wednesday	31/03/2021	9	2	5
<b>Monthly Results</b>		<b>14</b>	<b>1</b>	<b>5</b>

Licensed Discharge Point 4: Wastewater discharge adjacent to T7

Limits:		pH Max 8.5	pH Min 6.5		TSS Max: Dry weather 40mg/L	1000kl per day Max	Wet Weather >10mm/24hrs		
Day	Date	pH Max	pH Min	pH Average	TSS Max (mg/L)	TSS min (mg/L)	TSS Average (mg/L)	Total Volume discharged per day (kl)	Rainfall per day - 24hrs (mm)
Monday	1/03/2021	7.7	7.6	7.7	6	5	5	13.7	0
Tuesday	2/03/2021	7.9	7.7	7.8	5	3	4	39.4	0
Wednesday	3/03/2021	8.3	7.4	7.9	12	3	7	54.3	0
Thursday	4/03/2021	8.3	8.2	8.3	9	7	8	60.6	0
Friday	5/03/2021	8.3	8.0	8.2	8	3	5	47.3	0
Saturday	6/03/2021	8.3	8.0	8.1	5	3	4	56.6	0
Sunday	7/03/2021	8.3	8.2	8.3	5	4	4	44.1	0
Monday	8/03/2021	8.3	8.1	8.2	5	3	4	47.9	0
Tuesday	9/03/2021	8.2	7.6	7.8	5	4	4	47.1	0
Wednesday	10/03/2021	7.7	6.9	7.3	4	3	4	41.4	0
Thursday	11/03/2021	8.2	6.8	7.1	5	4	5	49.9	0
Friday	12/03/2021	8.4	6.8	7.3	9	5	7	44.4	4
Saturday	13/03/2021	7.5	7.0	7.2	10	7	8	42.0	0
Sunday	14/03/2021	7.5	6.8	7.0	15	9	12	77.6	7
Monday	15/03/2021	7.5	6.8	7.0	14	12	14	49.2	11
Tuesday	16/03/2021	8.1	6.9	7.3	13	12	12	45.3	0
Wednesday	17/03/2021	7.0	6.8	6.9	12	12	12	17.4	3
Thursday	18/03/2021	8.3	7.8	8.1	13	9	11	87.1	3
Friday	19/03/2021	8.2	7.1	7.7	14	9	11	91.9	3
Saturday	20/03/2021	7.7	6.8	7.1	13	7	9	125.9	11
Sunday	21/03/2021	8.2	6.8	7.1	11	7	9	105.2	14
Monday	22/03/2021	8.3	6.8	7.5	10	6	7	183.7	34
Tuesday	23/03/2021	8.0	6.8	7.2	16	7	12	214.6	41
Wednesday	24/03/2021	8.2	7.1	7.9	26	12	18	44.5	31
Thursday	25/03/2021	8.2	7.3	8.1	27	15	22	62.7	61
Friday	26/03/2021	8.3	8.0	8.2	22	18	20	34.4	0
Saturday	27/03/2021	8.2	8.0	8.2	25	23	24	19.7	10
Sunday	28/03/2021	8.2	7.2	7.6	26	23	25	39.4	0
Monday	29/03/2021	8.0	6.8	7.0	27	24	26	62.6	0
Tuesday	30/03/2021	7.2	6.8	6.9	22	19	21	62.0	0
Wednesday	31/03/2021	8.0	6.9	7.3	19	8	13	37.5	0
<b>Monthly Results</b>		<b>8.4</b>	<b>6.8</b>	<b>7.6</b>	<b>27</b>	<b>3</b>	<b>11</b>	<b>1949</b>	<b>233</b>

Environmental Monitoring Data- EPA License Number 549

April 2021

Site Name: IXOM Operations Pty Ltd

Site Address: Gate 1, Foreshore Road, Port Kembla, NSW, 2505

The site has three Licensed Discharge Points as detailed in the monitoring data tables below: LDP1, LDP2 and LDP 4

Licensed Discharge Point 1 - SARP Stack

Limits:		SO2 Max: 2800mg/m3			SO3 Max: 50mg/m3	
Day	Date	SO2 Maximum (mg/m3)	SO2 Minimum (mg/m3)	SO2 Average (mg/m3)	SO3 Result (mg/m3)	Sampling Information (sampling for SO3 conducted three times per year)
Thursday	1/04/2021	1978	0	941		
Friday	2/04/2021	1840	753	1201		
Saturday	3/04/2021	1964	1168	1561		
Sunday	4/04/2021	2305	684	1358		
Monday	5/04/2021	1599	1132	1420		
Tuesday	6/04/2021	1942	0	1322		
Wednesday	7/04/2021	1102	0	52		
Thursday	8/04/2021	1687	0	890		
Friday	9/04/2021	0	0	0		
Saturday	10/04/2021	0	0	0		
Sunday	11/04/2021	0	0	0		
Monday	12/04/2021	0	0	0		
Tuesday	13/04/2021	56	0	3		
Wednesday	14/04/2021	0	0	0		
Thursday	15/04/2021	0	0	0		
Friday	16/04/2021	2484	0	322		
Saturday	17/04/2021	1997	0	947		
Sunday	18/04/2021	1019	827	924		
Monday	19/04/2021	1150	809	951		
Tuesday	20/04/2021	1475	881	1116		
Wednesday	21/04/2021	1544	1142	1330		
Thursday	22/04/2021	1386	994	1176		
Friday	23/04/2021	1416	1232	1347		
Saturday	24/04/2021	1781	1141	1346		
Sunday	25/04/2021	1420	1172	1259		
Monday	26/04/2021	1217	787	1062		
Tuesday	27/04/2021	1162	584	885		
Wednesday	28/04/2021	1113	652	928		
Thursday	29/04/2021	1079	897	978		
Friday	30/04/2021	1638	623	949		
<b>Monthly Results</b>		<b>2484</b>	<b>0</b>	<b>809</b>		

Licensed Discharge Point 2: SMBS Stack

Limits:		SO2 Max: 560mg/m3		
Day	Date	SO2 Maximum (mg/m3)	SO2 Minimum (mg/m3)	SO2 Average (mg/m3)
Thursday	1/04/2021	10	4	7
Friday	2/04/2021	7	4	5
Saturday	3/04/2021	8	4	6
Sunday	4/04/2021	6	3	5
Monday	5/04/2021	7	3	5
Tuesday	6/04/2021	7	4	6
Wednesday	7/04/2021	7	3	5
Thursday	8/04/2021	9	5	7
Friday	9/04/2021	8	2	5
Saturday	10/04/2021	5	1	3
Sunday	11/04/2021	2	0	1
Monday	12/04/2021	58	0	5
Tuesday	13/04/2021	3	0	1
Wednesday	14/04/2021	9	0	2
Thursday	15/04/2021	56	0	3
Friday	16/04/2021	0	0	0
Saturday	17/04/2021	5	1	3
Sunday	18/04/2021	6	1	3
Monday	19/04/2021	6	2	3
Tuesday	20/04/2021	7	4	5
Wednesday	21/04/2021	6	3	5
Thursday	22/04/2021	6	1	3
Friday	23/04/2021	6	1	4
Saturday	24/04/2021	6	1	3
Sunday	25/04/2021	6	1	3
Monday	26/04/2021	6	2	4
Tuesday	27/04/2021	6	2	4
Wednesday	28/04/2021	8	3	5
Thursday	29/04/2021	6	2	4
Friday	30/04/2021	8	3	5
<b>Monthly Results</b>		<b>58</b>	<b>0</b>	<b>4</b>

Licensed Discharge Point 4: Wastewater discharge adjacent to T7

Limits:		pH Max 8.5	pH Min 6.5		TSS Max: Dry weather 40mg/L	1000kl per day Max	Wet Weather >10mm/24hrs		
Day	Date	pH Max	pH Min	pH Average	TSS Max (mg/L)	TSS min (mg/L)	TSS Average (mg/L)	Total Volume discharged per day (kl)	Rainfall per day - 24hrs (mm)
Thursday	1/04/2021	8.3	8.0	8.2	12	9	10	47.2	0
Friday	2/04/2021	8.3	8.1	8.2	11	9	10	39.1	0
Saturday	3/04/2021	8.3	7.1	7.9	19	11	16	42.5	0
Sunday	4/04/2021	7.9	6.9	7.2	22	16	18	42.8	0
Monday	5/04/2021	8.1	7.7	7.9	25	21	23	37.9	0
Tuesday	6/04/2021	8.1	6.9	7.3	32	24	28	41.6	0
Wednesday	7/04/2021	8.0	7.0	7.6	34	8	18	71.3	1
Thursday	8/04/2021	8.1	6.9	7.4	14	6	8	96.2	38
Friday	9/04/2021	7.9	7.1	7.4	12	6	9	123.9	12
Saturday	10/04/2021	8.4	6.9	7.3	8	6	7	93.3	0
Sunday	11/04/2021	8.4	6.7	7.6	8	6	7	64.5	0
Monday	12/04/2021	7.7	7.1	7.4	7	3	5	9.8	0
Tuesday	13/04/2021	8.2	7.5	7.8	3	3	3	10.5	0
Wednesday	14/04/2021	8.0	7.6	7.8	3	3	3	20.5	0
Thursday	15/04/2021	8.3	8.0	8.1	8	3	6	22.3	0
Friday	16/04/2021	8.3	8.0	8.2	9	8	8	24.3	0
Saturday	17/04/2021	8.0	7.8	7.8	9	8	9	27.4	0
Sunday	18/04/2021	7.7	6.8	7.2	11	6	9	42.8	0
Monday	19/04/2021	6.9	6.8	6.8	5	3	4	37.5	0
Tuesday	20/04/2021	7.0	6.7	6.9	4	4	4	38.3	0
Wednesday	21/04/2021	8.2	6.8	7.3	4	3	3	35.8	0
Thursday	22/04/2021	8.2	6.8	7.2	5	3	4	40.0	0
Friday	23/04/2021	7.4	6.8	6.9	8	4	6	48.2	0
Saturday	24/04/2021	7.6	6.8	7.1	6	5	5	48.3	0
Sunday	25/04/2021	7.8	6.8	7.0	6	4	5	46.4	0
Monday	26/04/2021	7.4	6.8	7.0	7	5	6	51.2	0
Tuesday	27/04/2021	7.2	6.8	7.0	8	5	7	56.0	0
Wednesday	28/04/2021	8.3	7.1	7.9	10	5	6	48.4	0
Thursday	29/04/2021	8.2	7.5	7.9	11	7	8	53.4	0
Friday	30/04/2021	7.6	7.3	7.5	9	6	8	51.7	0
<b>Monthly Results</b>		<b>8.4</b>	<b>6.7</b>	<b>7.5</b>	<b>34</b>	<b>3</b>	<b>9</b>	<b>1413</b>	<b>51</b>



Environmental Monitoring Data:- EPA License Number 549 **May 2021**  
**Site Name: IXOM Operations Pty Ltd**  
**Site Address: Gate 1, Foreshore Road, Port Kembla, NSW, 2505**  
The site has three Licensed Discharge Points as detailed in the monitoring data tables below: LDP1, LDP2 and LDP 4

**SO3 sample details:**  
Tue 4th - sampling completed  
May 19th - results confirmed  
June 1 - results published - later removed as plant had internal leak fixed in June

Licensed Discharge Point 1 - SARP Stack						
Limits:		SO2 Max: 2800mg/m3			SO3 Max: 50mg/m3	
Day	Date	SO2 Maximum (mg/m3)	SO2 Minimum (mg/m3)	SO2 Average (mg/m3)	SO3 Result (mg/m3)	Sampling Information (sampling for SO <sub>3</sub> conducted three times per year )
Saturday	1/05/2021	1682	882	1189		
Sunday	2/05/2021	1962	748	1438		
Monday	3/05/2021	1876	1288	1565		
Tuesday	4/05/2021	1872	1139	1444		
Wednesday	5/05/2021	1259	1076	1195		
Thursday	6/05/2021	1465	0	734		
Friday	7/05/2021	1839	571	1398		
Saturday	8/05/2021	1700	1309	1522		
Sunday	9/05/2021	1860	1272	1565		
Monday	10/05/2021	1853	605	1568		
Tuesday	11/05/2021	1713	978	1435		
Wednesday	12/05/2021	1341	842	1151		
Thursday	13/05/2021	1734	545	1156		
Friday	14/05/2021	1677	1128	1370		
Saturday	15/05/2021	1616	1061	1310		
Sunday	16/05/2021	1538	1075	1248		
Monday	17/05/2021	1395	0	644		
Tuesday	18/05/2021	1736	0	279		
Wednesday	19/05/2021	1537	525	1156		
Thursday	20/05/2021	1744	1255	1452		
Friday	21/05/2021	1883	574	1006		
Saturday	22/05/2021	2314	0	595		
Sunday	23/05/2021	0	0	0		
Monday	24/05/2021	3	0	0		
Tuesday	25/05/2021	2253	0	686		
Wednesday	26/05/2021	0	0	0		
Thursday	27/05/2021	0	0	0		
Friday	28/05/2021	0	0	0		
Saturday	29/05/2021	0	0	0		
Sunday	30/05/2021	0	0	0		
Monday	31/05/2021	0	0	0		
<b>Monthly Results</b>		<b>2314</b>	<b>0</b>	<b>874</b>		

Licensed Discharge Point 2: SMBS Stack				
Limits:		SO2 Max: 560mg/m3		
Day	Date	SO2 Maximum (mg/m3)	SO2 Minimum (mg/m3)	SO2 Average (mg/m3)
Saturday	1/05/2021	8	4	5
Sunday	2/05/2021	6	3	4
Monday	3/05/2021	8	2	5
Tuesday	4/05/2021	7	4	5
Wednesday	5/05/2021	7	4	5
Thursday	6/05/2021	7	3	5
Friday	7/05/2021	7	4	5
Saturday	8/05/2021	10	4	6
Sunday	9/05/2021	6	3	4
Monday	10/05/2021	7	2	4
Tuesday	11/05/2021	6	2	3
Wednesday	12/05/2021	6	2	4
Thursday	13/05/2021	7	2	4
Friday	14/05/2021	8	3	5
Saturday	15/05/2021	7	2	4
Sunday	16/05/2021	5	0	3
Monday	17/05/2021	7	2	4
Tuesday	18/05/2021	8	1	4
Wednesday	19/05/2021	9	2	4
Thursday	20/05/2021	8	3	5
Friday	21/05/2021	9	4	7
Saturday	22/05/2021	12	5	8
Sunday	23/05/2021	9	5	6
Monday	24/05/2021	11	5	7
Tuesday	25/05/2021	9	5	7
Wednesday	26/05/2021	11	5	7
Thursday	27/05/2021	9	3	6
Friday	28/05/2021	50	3	6
Saturday	29/05/2021	6	3	4
Sunday	30/05/2021	5	3	4
Monday	31/05/2021	15	2	4
<b>Monthly Results</b>		<b>50</b>	<b>0</b>	<b>5</b>

Licensed Discharge Point 4: Wastewater discharge adjacent to T7									
Limits:		pH Max 8.5	pH Min 6.5		TSS Max: Dry weather 40mg/L	1000kl per day Max	Wet Weather >10mm/24hrs		
Day	Date	pH Max	pH Min	pH Average	TSS Max (mg/L)	TSS min (mg/L)	TSS Average (mg/L)	Total Volume discharged per day (kl)	Rainfall per day - 24hrs (mm)
Saturday	1/05/2021	8.3	7.9	8.1	13	7	10	62.3	0
Sunday	2/05/2021	8.3	7.5	7.8	14	5	9	52.8	0
Monday	3/05/2021	8.2	6.9	7.5	13	6	8	51.0	0
Tuesday	4/05/2021	7.6	7.1	7.5	15	7	10	57.5	0
Wednesday	5/05/2021	7.9	6.9	7.3	5	4	5	102.2	7
Thursday	6/05/2021	8.1	7.0	7.7	5	4	5	67.5	22
Friday	7/05/2021	8.2	7.8	8.0	10	4	7	150.5	35
Saturday	8/05/2021	8.2	7.9	8.1	15	8	11	59.1	26
Sunday	9/05/2021	8.1	6.8	7.1	16	11	14	84.2	0
Monday	10/05/2021	7.2	6.8	6.9	15	12	14	95.0	0
Tuesday	11/05/2021	7.2	6.7	6.9	20	17	18	75.3	0
Wednesday	12/05/2021	8.2	6.7	7.4	23	17	20	84.3	10
Thursday	13/05/2021	8.3	7.8	8.1	37	22	30	76.8	0
Friday	14/05/2021	8.3	7.5	8.0	33	25	29	57.6	0
Saturday	15/05/2021	8.2	7.8	8.0	31	27	29	58.6	0
Sunday	16/05/2021	8.1	6.8	7.5	35	30	32	52.5	0
Monday	17/05/2021	8.2	6.8	7.6	36	29	32	51.6	0
Tuesday	18/05/2021	8.2	6.7	7.2	25	12	17	43.1	0
Wednesday	19/05/2021	8.0	7.2	7.7	10	8	9	44.6	0
Thursday	20/05/2021	7.2	6.8	6.9	11	9	9	43.9	0
Friday	21/05/2021	7.3	6.8	7.0	11	8	9	51.8	0
Saturday	22/05/2021	7.3	6.9	7.0	17	8	13	39.6	0
Sunday	23/05/2021	8.3	7.5	8.1	18	14	16	24.6	0
Monday	24/05/2021	8.3	7.4	7.8	13	9	11	67.7	0
Tuesday	25/05/2021	8.1	7.5	7.8	10	9	10	30.7	0
Wednesday	26/05/2021	7.7	7.7	7.7	6	6	6	5.0	0
Thursday	27/05/2021	7.9	7.3	7.6	9	6	8	9.9	0
Friday	28/05/2021	7.6	7.2	7.4	9	8	9	13.3	0
Saturday	29/05/2021	7.8	7.8	7.8	8	8	8	2.5	0
Sunday	30/05/2021	8.2	8.2	8.2	7	7	7	4.7	0
Monday	31/05/2021	8.2	8.2	8.2	8	8	8	4.9	0
<b>Monthly Results</b>		<b>8.3</b>	<b>6.7</b>	<b>7.6</b>	<b>37</b>	<b>4</b>	<b>14</b>	<b>1625</b>	<b>100</b>

Environmental Monitoring Data:- EPA License Number 549 **June 2021**  
**Site Name: IXOM Operations Pty Ltd**  
**Site Address: Gate 1, Foreshore Road, Port Kembla, NSW, 2505**  
The site has three Licensed Discharge Points as detailed in the monitoring data tables below: LDP1, LDP2 and LDP 4

No discharges June 2nd and 5th

Licensed Discharge Point 1 - SARP Stack						
Limits:		SO2 Max: 2800mg/m3			SO3 Max: 50mg/m3	
Day	Date	SO2 Maximum (mg/m3)	SO2 Minimum (mg/m3)	SO2 Average (mg/m3)	SO3 Result (mg/m3)	Sampling Information (sampling for SO <sub>3</sub> conducted three times per year )
Tuesday	1/06/2021	0	0	0		
Wednesday	2/06/2021	0	0	0		
Thursday	3/06/2021	0	0	0		
Friday	4/06/2021	0	0	0		
Saturday	5/06/2021	0	0	0		
Sunday	6/06/2021	0	0	0		
Monday	7/06/2021	0	0	0		
Tuesday	8/06/2021	0	0	0		
Wednesday	9/06/2021	0	0	0		
Thursday	10/06/2021	0	0	0		
Friday	11/06/2021	0	0	0		
Saturday	12/06/2021	0	0	0		
Sunday	13/06/2021	0	0	0		
Monday	14/06/2021	0	0	0		
Tuesday	15/06/2021	0	0	0		
Wednesday	16/06/2021	0	0	0		
Thursday	17/06/2021	0	0	0		
Friday	18/06/2021	0	0	0		
Saturday	19/06/2021	0	0	0		
Sunday	20/06/2021	0	0	0		
Monday	21/06/2021	0	0	0		
Tuesday	22/06/2021	0	0	0		
Wednesday	23/06/2021	0	0	0		
Thursday	24/06/2021	0	0	0		
Friday	25/06/2021	0	0	0		
Saturday	26/06/2021	0	0	0		
Sunday	27/06/2021	0	0	0		
Monday	28/06/2021	0	0	0		
Tuesday	29/06/2021	0	0	0		
Wednesday	30/06/2021	0	0	0		
<b>Monthly Results</b>		<b>0</b>	<b>0</b>	<b>0</b>		

Licensed Discharge Point 2: SMBS Stack				
Limits:		SO2 Max: 560mg/m3		
Day	Date	SO2 Maximum (mg/m3)	SO2 Minimum (mg/m3)	SO2 Average (mg/m3)
Tuesday	1/06/2021	7	3	5
Wednesday	2/06/2021	9	4	5
Thursday	3/06/2021	6	4	5
Friday	4/06/2021	7	3	4
Saturday	5/06/2021	6	1	3
Sunday	6/06/2021	6	2	3
Monday	7/06/2021	8	3	4
Tuesday	8/06/2021	6	2	4
Wednesday	9/06/2021	6	1	3
Thursday	10/06/2021	5	2	3
Friday	11/06/2021	7	0	2
Saturday	12/06/2021	2	0	1
Sunday	13/06/2021	2	0	1
Monday	14/06/2021	11	0	1
Tuesday	15/06/2021	4	0	1
Wednesday	16/06/2021	4	0	1
Thursday	17/06/2021	5	0	1
Friday	18/06/2021	8	1	4
Saturday	19/06/2021	7	4	5
Sunday	20/06/2021	5	3	4
Monday	21/06/2021	7	3	5
Tuesday	22/06/2021	7	3	5
Wednesday	23/06/2021	21	3	6
Thursday	24/06/2021	16	3	7
Friday	25/06/2021	9	2	5
Saturday	26/06/2021	5	2	3
Sunday	27/06/2021	6	1	3
Monday	28/06/2021	6	1	3
Tuesday	29/06/2021	14	2	5
Wednesday	30/06/2021	5	2	3
<b>Monthly Results</b>		<b>21</b>	<b>0</b>	<b>3</b>

Licensed Discharge Point 4: Wastewater discharge adjacent to T7									
Limits:		pH Max 8.5	pH Min 6.5		TSS Max: Dry weather 40mg/L	1000kl per day Max	Wet Weather >10mm/24hrs		
Day	Date	pH Max	pH Min	pH Average	TSS Max (mg/L)	TSS min (mg/L)	TSS Average (mg/L)	Total Volume discharged per day (kl)	Rainfall per day - 24hrs (mm)
Tuesday	1/06/2021	8.1	7.4	7.8	8	7	8	7.3	0
Wednesday	2/06/2021								0
Thursday	3/06/2021	7.7	7.6	7.6	8	7	8	9.6	0
Friday	4/06/2021	7.8	7.2	7.5	10	9	10	14.4	9
Saturday	5/06/2021								0
Sunday	6/06/2021	7.6	7.3	7.5	10	7	9	9.5	0
Monday	7/06/2021	7.6	7.6	7.6	9	9	9	4.9	0
Tuesday	8/06/2021	7.8	7.8	7.8	9	9	9	7.2	0
Wednesday	9/06/2021	7.5	7.5	7.5	9	9	9	4.0	3
Thursday	10/06/2021	7.8	7.1	7.4	10	8	9	18.2	0
Friday	11/06/2021	7.6	7.6	7.6	10	10	10	1.1	4
Saturday	12/06/2021	7.6	7.6	7.6	10	10	10	3.8	1
Sunday	13/06/2021	8.0	8.0	8.0	10	10	10	2.4	0
Monday	14/06/2021	8.1	8.0	8.0	0	0	0	17.8	0
Tuesday	15/06/2021	8.0	8.0	8.0	0	0	0	14.7	0
Wednesday	16/06/2021	8.1	7.8	8.0	4	4	4	22.4	0
Thursday	17/06/2021	8.1	7.1	7.8	8	4	6	36.0	5
Friday	18/06/2021	8.0	8.0	8.0	6	6	6	9.8	3
Saturday	19/06/2021	8.2	7.8	8.1	9	6	8	24.6	10
Sunday	20/06/2021	8.3	8.0	8.1	8	5	7	14.6	8
Monday	21/06/2021	7.4	7.4	7.4	7	7	7	6.2	0
Tuesday	22/06/2021	8.1	7.2	7.7	7	7	7	8.2	0
Wednesday	23/06/2021								0
Thursday	24/06/2021	8.3	8.1	8.2	8	5	6	22.9	0
Friday	25/06/2021	8.2	7.1	7.9	5	4	5	46.4	4
Saturday	26/06/2021	8.2	7.9	8.0	5	4	5	27.4	0
Sunday	27/06/2021	8.1	7.9	8.0	8	4	7	27.5	0
Monday	28/06/2021	8.2	7.8	8.0	7	6	7	27.8	0
Tuesday	29/06/2021	8.0	7.4	7.6	8	7	7	30.1	0
Wednesday	30/06/2021	8.1	7.3	7.7	7	7	7	49.0	4
<b>Monthly Results</b>		<b>8.3</b>	<b>7.1</b>	<b>7.8</b>	<b>10</b>	<b>0</b>	<b>7</b>	<b>467</b>	<b>51</b>

Environmental Monitoring Data:- EPA License Number 549

July 2021

Site Name: IXOM Operations Pty Ltd

Site Address: Gate 1, Foreshore Road, Port Kembla, NSW, 2505

The site has three Licensed Discharge Points as detailed in the monitoring data tables below: LDP1, LDP2 and LDP 4

Licensed Discharge Point 1 - SARP Stack

Limits:		SO2 Max: 2800mg/m3			SO3 Max: 50mg/m3	
Day	Date	SO2 Maximum (mg/m3)	SO2 Minimum (mg/m3)	SO2 Average (mg/m3)	SO3 Result (mg/m3)	Sampling Information ( sampling for SO <sub>3</sub> conducted three times per year )
Thursday	1/07/2021	0	0	0		
Friday	2/07/2021	0	0	0		
Saturday	3/07/2021	0	0	0		
Sunday	4/07/2021	0	0	0		
Monday	5/07/2021	0	0	0		
Tuesday	6/07/2021	0	0	0		
Wednesday	7/07/2021	0	0	0		
Thursday	8/07/2021	0	0	0		
Friday	9/07/2021	0	0	0		
Saturday	10/07/2021	0	0	0		
Sunday	11/07/2021	0	0	0		
Monday	12/07/2021	0	0	0		
Tuesday	13/07/2021	0	0	0		
Wednesday	14/07/2021	0	0	0		
Thursday	15/07/2021	0	0	0		
Friday	16/07/2021	0	0	0		
Saturday	17/07/2021	0	0	0		
Sunday	18/07/2021	0	0	0		
Monday	19/07/2021	0	0	0		
Tuesday	20/07/2021	0	0	0		
Wednesday	21/07/2021	0	0	0		
Thursday	22/07/2021	0	0	0		
Friday	23/07/2021	0	0	0		
Saturday	24/07/2021	0	0	0		
Sunday	25/07/2021	0	0	0		
Monday	26/07/2021	0	0	0		
Tuesday	27/07/2021	0	0	0		
Wednesday	28/07/2021	1592	0	193		
Thursday	29/07/2021	1537	562	1045		
Friday	30/07/2021	1544	1082	1350		
Saturday	31/07/2021	1793	1013	1524		
<b>Monthly Results</b>		<b>1793</b>	<b>0</b>	<b>133</b>		

Licensed Discharge Point 2: SMBS Stack

Limits:		SO2 Max: 560mg/m3		
Day	Date	SO2 Maximum (mg/m3)	SO2 Minimum (mg/m3)	SO2 Average (mg/m3)
Thursday	1/07/2021	11	3	4
Friday	2/07/2021	9	4	6
Saturday	3/07/2021	16	4	7
Sunday	4/07/2021	8	4	5
Monday	5/07/2021	9	4	6
Tuesday	6/07/2021	9	4	5
Wednesday	7/07/2021	11	4	6
Thursday	8/07/2021	10	4	6
Friday	9/07/2021	6	3	5
Saturday	10/07/2021	5	3	4
Sunday	11/07/2021	6	2	3
Monday	12/07/2021	8	2	4
Tuesday	13/07/2021	9	2	5
Wednesday	14/07/2021	4	2	4
Thursday	15/07/2021	116	4	10
Friday	16/07/2021	15	2	5
Saturday	17/07/2021	12	1	4
Sunday	18/07/2021	4	1	2
Monday	19/07/2021	10	2	3
Tuesday	20/07/2021	6	2	4
Wednesday	21/07/2021	46	1	5
Thursday	22/07/2021	8	2	3
Friday	23/07/2021	14	2	5
Saturday	24/07/2021	6	2	4
Sunday	25/07/2021	11	2	4
Monday	26/07/2021	10	4	6
Tuesday	27/07/2021	14	3	6
Wednesday	28/07/2021	8	3	5
Thursday	29/07/2021	9	3	5
Friday	30/07/2021	9	4	6
Saturday	31/07/2021	6	4	5
<b>Monthly Results</b>		<b>116</b>	<b>1</b>	<b>5</b>

Licensed Discharge Point 4: Wastewater discharge adjacent to T7

Limits:		pH Max 8.5	pH Min 6.5		TSS Max: Dry weather 40mg/L	1000kl per day Max	Wet Weather >10mm/24hrs		
Day	Date	pH Max	pH Min	pH Average	TSS Max (mg/L)	TSS min (mg/L)	TSS Average (mg/L)	Total Volume discharged per day (kl)	Rainfall per day - 24hrs (mm)
Thursday	1/07/2021	8.3	7.9	8.2	7	3	5	48.7	1
Friday	2/07/2021	8.2	8.1	8.1	4	4	4	43.0	1
Saturday	3/07/2021	8.3	8.1	8.2	4	2	3	47.3	0
Sunday	4/07/2021	8.3	7.8	7.9	6	3	4	37.8	0
Monday	5/07/2021	8.3	8.2	8.2	6	5	6	17.2	0
Tuesday	6/07/2021	7.9	7.9	7.9	5	5	5	3.1	0
Wednesday	7/07/2021	8.2	7.9	8.0	8	7	8	8.5	0
Thursday	8/07/2021	8.2	8.2	8.2	7	7	7	4.9	0
Friday	9/07/2021	8.2	7.0	7.3	9	7	9	62.5	0
Saturday	10/07/2021	7.9	7.2	7.5	9	6	8	26.2	26
Sunday	11/07/2021	7.8	7.3	7.5	8	7	7	33.3	8
Monday	12/07/2021	8.0	8.0	8.0	6	6	6	2.5	0
Tuesday	13/07/2021								0
Wednesday	14/07/2021	8.1	8.1	8.1	5	5	5	2.5	0
Thursday	15/07/2021	8.2	7.8	8.0	5	5	5	9.7	0
Friday	16/07/2021	8.1	8.1	8.1	6	6	6	11.0	0
Saturday	17/07/2021	7.2	6.7	6.8	7	6	7	10.1	2
Sunday	18/07/2021	7.6	7.5	7.6	7	6	7	9.9	0
Monday	19/07/2021	8.1	7.9	8.0	6	5	5	29.7	0
Tuesday	20/07/2021	8.3	8.1	8.2	5	5	5	9.4	0
Wednesday	21/07/2021	8.2	7.7	7.9	9	7	8	4.8	0
Thursday	22/07/2021	8.0	7.3	7.6	6	5	6	7.8	0
Friday	23/07/2021	8.2	7.1	7.6	13	5	8	10.7	0
Saturday	24/07/2021	7.9	7.6	7.7	13	8	11	9.6	2
Sunday	25/07/2021	8.1	7.4	7.9	6	5	6	22.3	0
Monday	26/07/2021	7.5	7.3	7.4	7	5	6	14.5	0
Tuesday	27/07/2021	7.5	7.2	7.4	7	6	7	9.6	0
Wednesday	28/07/2021	8.3	6.9	7.8	13	9	11	36.7	0
Thursday	29/07/2021	8.3	7.0	8.0	9	3	6	74.0	0
Friday	30/07/2021	7.3	6.8	6.9	14	5	11	86.5	0
Saturday	31/07/2021	7.0	6.8	6.8	13	11	12	70.6	0
<b>Monthly Results</b>		<b>8.3</b>	<b>6.7</b>	<b>7.8</b>	<b>14</b>	<b>2</b>	<b>7</b>	<b>764</b>	<b>40</b>

Environmental Monitoring Data- EPA License Number 549

August 2021

Site Name: IXOM Operations Pty Ltd

Site Address: Gate 1, Foreshore Road, Port Kembla, NSW, 2505

The site has three Licensed Discharge Points as detailed in the monitoring data tables below: LDP1, LDP2 and LDP 4

SO3 sample details:

Thu 12th - sampling conducted

Plant offline same day due to process issue - sampling to be repeated at later date.

Licensed Discharge Point 1 - SARP Stack

Limits:		SO2 Max: 2800mg/m3			SO3 Max: 50mg/m3	
Day	Date	SO2 Maximum (mg/m3)	SO2 Minimum (mg/m3)	SO2 Average (mg/m3)	SO3 Result (mg/m3)	Sampling Information (sampling for SO <sub>3</sub> conducted three times per year)
Sunday	1/08/2021	1972	1338	1621		
Monday	2/08/2021	1887	1406	1552		
Tuesday	3/08/2021	1716	1323	1499		
Wednesday	4/08/2021	1920	1168	1429		
Thursday	5/08/2021	1845	1349	1565		
Friday	6/08/2021	1600	1101	1397		
Saturday	7/08/2021	1690	1422	1576		
Sunday	8/08/2021	1702	1480	1580		
Monday	9/08/2021	1688	1334	1467		
Tuesday	10/08/2021	2037	1642	1813		
Wednesday	11/08/2021	2201	1818	2010		
Thursday	12/08/2021	2513	0	1781		
Friday	13/08/2021	2365	1	1409		
Saturday	14/08/2021	2158	0	475		
Sunday	15/08/2021	0	0	0		
Monday	16/08/2021	964	0	62		
Tuesday	17/08/2021	1616	0	597		
Wednesday	18/08/2021	0	0	0		
Thursday	19/08/2021	0	0	0		
Friday	20/08/2021	0	0	0		
Saturday	21/08/2021	0	0	0		
Sunday	22/08/2021	0	0	0		
Monday	23/08/2021	0	0	0		
Tuesday	24/08/2021	0	0	0		
Wednesday	25/08/2021	0	0	0		
Thursday	26/08/2021	1626	0	758		
Friday	27/08/2021	1553	1001	1221		
Saturday	28/08/2021	1661	0	1178		
Sunday	29/08/2021	0	0	0		
Monday	30/08/2021	1385	0	239		
Tuesday	31/08/2021	1614	426	1224		
<b>Monthly Results</b>		<b>2513</b>	<b>0</b>	<b>853</b>		

Licensed Discharge Point 2: SMBS Stack

Limits:		SO2 Max: 560mg/m3		
Day	Date	SO2 Maximum (mg/m3)	SO2 Minimum (mg/m3)	SO2 Average (mg/m3)
Sunday	1/08/2021	9	2	6
Monday	2/08/2021	10	4	7
Tuesday	3/08/2021	6	3	5
Wednesday	4/08/2021	6	3	4
Thursday	5/08/2021	7	4	5
Friday	6/08/2021	7	3	5
Saturday	7/08/2021	7	4	5
Sunday	8/08/2021	7	4	5
Monday	9/08/2021	8	4	6
Tuesday	10/08/2021	8	4	6
Wednesday	11/08/2021	10	5	7
Thursday	12/08/2021	9	5	7
Friday	13/08/2021	8	3	5
Saturday	14/08/2021	44	3	6
Sunday	15/08/2021	7	3	5
Monday	16/08/2021	12	1	5
Tuesday	17/08/2021	7	3	5
Wednesday	18/08/2021	8	2	4
Thursday	19/08/2021	7	2	5
Friday	20/08/2021	7	2	4
Saturday	21/08/2021	7	1	3
Sunday	22/08/2021	6	1	3
Monday	23/08/2021	9	1	3
Tuesday	24/08/2021	3	0	1
Wednesday	25/08/2021	7	0	2
Thursday	26/08/2021	4	0	2
Friday	27/08/2021	5	0	2
Saturday	28/08/2021	4	0	2
Sunday	29/08/2021	3	0	1
Monday	30/08/2021	5	0	2
Tuesday	31/08/2021	9	1	4
<b>Monthly Results</b>		<b>44</b>	<b>0</b>	<b>4</b>

Licensed Discharge Point 4: Wastewater discharge adjacent to T7

Limits:		pH Max 8.5	pH Min 6.5		TSS Max: Dry weather 40mg/L	1000kl per day Max	Wet Weather >10mm/24hrs		
Day	Date	pH Max	pH Min	pH Average	TSS Max (mg/L)	TSS min (mg/L)	TSS Average (mg/L)	Total Volume discharged per day (kl)	Rainfall per day - 24hrs (mm)
Sunday	1/08/2021	8.1	6.8	7.0	14	9	12	54.6	0
Monday	2/08/2021	7.8	7.2	7.5	10	7	8	42.3	0
Tuesday	3/08/2021	7.8	6.9	7.3	16	11	14	36.5	0
Wednesday	4/08/2021	8.2	7.9	8.1	12	7	11	51.4	2
Thursday	5/08/2021	8.2	7.8	8.0	8	7	8	41.3	0
Friday	6/08/2021	8.0	6.8	7.5	8	7	7	43.3	0
Saturday	7/08/2021	8.2	7.5	8.0	7	6	7	48.3	0
Sunday	8/08/2021	7.4	6.8	7.0	8	7	7	51.7	0
Monday	9/08/2021	7.1	6.8	7.0	9	6	7	52.5	0
Tuesday	10/08/2021	7.4	6.8	7.1	9	7	8	44.1	0
Wednesday	11/08/2021	8.3	6.8	7.3	10	8	9	46.1	0
Thursday	12/08/2021	7.6	6.7	7.0	20	8	14	90.9	0
Friday	13/08/2021	8.3	6.8	7.6	13	10	11	56.9	0
Saturday	14/08/2021	8.3	7.1	7.8	17	11	14	77.1	0
Sunday	15/08/2021	8.2	7.5	7.8	17	10	14	47.6	0
Monday	16/08/2021	8.2	7.8	8.1	10	9	10	45.6	0
Tuesday	17/08/2021	8.3	8.1	8.2	11	9	10	24.7	0
Wednesday	18/08/2021	8.3	8.3	8.3	10	10	10	4.9	0
Thursday	19/08/2021	8.3	8.0	8.2	12	11	12	18.2	0
Friday	20/08/2021	8.3	8.1	8.2	12	10	11	14.1	0
Saturday	21/08/2021							0	0
Sunday	22/08/2021	8.3	8.0	8.2	16	12	13	19.4	0
Monday	23/08/2021	8.3	7.1	7.7	15	12	13	17.2	0
Tuesday	24/08/2021	8.3	7.6	8.0	11	6	9	37.7	5
Wednesday	25/08/2021	8.3	8.2	8.3	8	5	6	30.6	87
Thursday	26/08/2021	8.3	7.2	7.9	18	6	11	37.1	4
Friday	27/08/2021	8.2	6.8	7.2	24	19	22	42.7	0
Saturday	28/08/2021	8.3	6.9	7.6	25	15	20	38.2	1
Sunday	29/08/2021	8.3	8.3	8.3	15	14	14	14.5	2
Monday	30/08/2021	8.3	8.3	8.3	15	14	14	14.5	0
Tuesday	31/08/2021	8.3	8.3	8.3	15	8	11	37.9	0
<b>Monthly Results</b>		<b>8.3</b>	<b>6.7</b>	<b>7.8</b>	<b>25</b>	<b>5</b>	<b>11</b>	<b>1182</b>	<b>101</b>

Environmental Monitoring Data:- EPA License Number 549

September 2021

Site Name: IXOM Operations Pty Ltd

Site Address: Gate 1, Foreshore Road, Port Kembla, NSW, 2505

The site has three Licensed Discharge Points as detailed in the monitoring data tables below: LDP1, LDP2 and LDP 4

SO3 sample details:

Tue 28th - sampling completed

Oct 6th - results received

Oct 7th - results published

Licensed Discharge Point 1 - SARP Stack

Limits:		SO2 Max: 2800mg/m3			SO3 Max: 50mg/m3	
Day	Date	SO2 Maximum (mg/m3)	SO2 Minimum (mg/m3)	SO2 Average (mg/m3)	SO3 Result (mg/m3)	Sampling Information ( sampling for SO3 conducted three times per year )
Wednesday	1/09/2021	1463	1079	1224		
Thursday	2/09/2021	2088	0	999		
Friday	3/09/2021	2004	0	878		
Saturday	4/09/2021	1461	886	1261		
Sunday	5/09/2021	1479	1127	1267		
Monday	6/09/2021	1433	983	1182		
Tuesday	7/09/2021	1335	982	1165		
Wednesday	8/09/2021	1645	1028	1241		
Thursday	9/09/2021	1492	849	1165		
Friday	10/09/2021	1383	1034	1177		
Saturday	11/09/2021	1375	847	1109		
Sunday	12/09/2021	1467	776	1101		
Monday	13/09/2021	1603	945	1251		
Tuesday	14/09/2021	1536	732	1187		
Wednesday	15/09/2021	1426	0	193		
Thursday	16/09/2021	1157	0	465		
Friday	17/09/2021	1881	0	348		
Saturday	18/09/2021	1923	0	482		
Sunday	19/09/2021	1144	766	915		
Monday	20/09/2021	1451	690	999		
Tuesday	21/09/2021	1242	802	1040		
Wednesday	22/09/2021	1521	1084	1245		
Thursday	23/09/2021	1392	1072	1284		
Friday	24/09/2021	1450	1237	1337		
Saturday	25/09/2021	1297	800	1055		
Sunday	26/09/2021	1428	930	1077		
Monday	27/09/2021	1285	880	1065		
Tuesday	28/09/2021	1635	975	1216	18	refer above, SO3 sample details
Wednesday	29/09/2021	1846	1026	1441		
Thursday	30/09/2021	1919	869	1303		
<b>Monthly Results</b>		<b>2088</b>	<b>0</b>	<b>1056</b>	<b>18</b>	

Licensed Discharge Point 2: SMBS Stack

Limits:		SO2 Max: 560mg/m3		
Day	Date	SO2 Maximum (mg/m3)	SO2 Minimum (mg/m3)	SO2 Average (mg/m3)
Wednesday	1/09/2021	5	0	2
Thursday	2/09/2021	10	1	3
Friday	3/09/2021	17	0	2
Saturday	4/09/2021	0	0	0
Sunday	5/09/2021	0	0	0
Monday	6/09/2021	3	0	1
Tuesday	7/09/2021	6	0	3
Wednesday	8/09/2021	6	1	3
Thursday	9/09/2021	7	2	4
Friday	10/09/2021	4	1	3
Saturday	11/09/2021	8	2	4
Sunday	12/09/2021	6	1	3
Monday	13/09/2021	4	0	2
Tuesday	14/09/2021	4	1	2
Wednesday	15/09/2021	4	1	2
Thursday	16/09/2021	5	1	3
Friday	17/09/2021	5	2	3
Saturday	18/09/2021	5	0	2
Sunday	19/09/2021	5	0	2
Monday	20/09/2021	7	0	2
Tuesday	21/09/2021	4	0	2
Wednesday	22/09/2021	4	1	2
Thursday	23/09/2021	6	1	3
Friday	24/09/2021	7	0	2
Saturday	25/09/2021	3	0	0
Sunday	26/09/2021	2	0	1
Monday	27/09/2021	3	0	1
Tuesday	28/09/2021	4	1	2
Wednesday	29/09/2021	4	2	3
Thursday	30/09/2021	7	1	4
<b>Monthly Results</b>		<b>17</b>	<b>0</b>	<b>2</b>

Licensed Discharge Point 4: Wastewater discharge adjacent to T7

Limits:		pH Max 8.5	pH Min 6.5		TSS Max: Dry weather 40mg/L Wet weather: 150mg/L	1000kl per day Max	Wet Weather >10mm/24hrs		
Day	Date	pH Max	pH Min	pH Average	TSS Max (mg/L)	TSS min (mg/L)	TSS Average (mg/L)	Total Volume discharged per day (kL)	Rainfall per day - 24hrs (mm)
Wednesday	1/09/2021	8.3	7.2	7.8	20	8	12	46.1	0
Thursday	2/09/2021	8.0	6.8	7.5	25	22	24	36.3	0
Friday	3/09/2021	8.2	7.9	8.1	19	16	17	34.0	0
Saturday	4/09/2021	8.2	7.2	7.8	23	12	17	72.3	9
Sunday	5/09/2021	8.2	7.2	7.8	23	12	17	72.3	5
Monday	6/09/2021	8.4	6.8	7.4	22	19	20	41.6	9
Tuesday	7/09/2021	7.8	6.8	7.3	23	21	22	47.1	5
Wednesday	8/09/2021	7.8	6.8	7.3	38	23	27	34.6	0
Thursday	9/09/2021	8.3	6.8	7.8	34	16	25	66.6	0
Friday	10/09/2021	8.3	7.1	7.8	36	14	24	57.2	0
Saturday	11/09/2021	8.2	7.0	7.5	21	14	18	56.8	0
Sunday	12/09/2021	8.1	7.0	7.5	17	13	15	47.8	0
Monday	13/09/2021	8.0	6.7	7.1	22	17	20	58.8	0
Tuesday	14/09/2021	8.0	7.0	7.3	25	14	20	86.0	9
Wednesday	15/09/2021	8.1	7.7	7.9	14	8	10	16.1	8
Thursday	16/09/2021	7.6	7.4	7.5	7	5	6	34.3	0
Friday	17/09/2021	8.1	7.2	7.5	7	5	6	31.7	0
Saturday	18/09/2021	8.3	7.9	8.1	5	4	5	29.5	0
Sunday	19/09/2021	7.5	6.9	7.1	6	5	5	40.9	0
Monday	20/09/2021	8.3	7.2	8.0	7	5	6	40.4	0
Tuesday	21/09/2021	8.3	8.2	8.2	6	6	6	33.2	0
Wednesday	22/09/2021	8.2	7.8	8.0	6	5	6	33.3	0
Thursday	23/09/2021	8.2	7.8	8.0	6	5	6	33.3	0
Friday	24/09/2021	7.8	6.8	7.3	10	5	6	33.0	0
Saturday	25/09/2021	7.5	6.9	7.0	6	5	5	33.6	0
Sunday	26/09/2021	8.1	6.9	7.6	16	14	15	40.9	0
Monday	27/09/2021	8.1	7.5	7.9	16	5	9	37.8	0
Tuesday	28/09/2021	7.5	7.3	7.5	6	4	5	31.7	0
Wednesday	29/09/2021	7.6	7.3	7.4	11	5	8	28.4	0
Thursday	30/09/2021	7.7	7.0	7.3	15	13	14	46.3	0
<b>Monthly Results</b>		<b>8.4</b>	<b>6.7</b>	<b>7.6</b>	<b>38</b>	<b>4</b>	<b>13</b>	<b>1302</b>	<b>45</b>