

Licence # 6163

Full licence available at:

<http://www.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=38801&SYSUID=1&LICID=6163>

Tomago Aluminium Company Limited

638 Tomago Road, Tomago NSW 2322

Monitoring Period: Jun-20

Date Published: 10/07/2020

| EPA Monitoring Point | Descriptor               | Gaseous Fluoride, mg/m3, monthly average | Gaseous Fluoride, mg/m3, minimum daily value | Gaseous Fluoride, mg/m3, maximum daily value | Monitoring frequency requirement | Total Fluoride, kg F / t Al | Monitoring frequency requirement | Sulfur Dioxide, mg/m3 | Monitoring frequency requirement |
|----------------------|--------------------------|--|--|--|----------------------------------|-----------------------------|----------------------------------|-----------------------|----------------------------------|
| 1                    | Line 1 West Stack        | 0.2                                      | 0.1  | 0.7  | continuous                       | 0.04                        | twice per quarter                | NMR                   | Quarterly                        |
| 2                    | Line 1 East Stack        | 0.3                                      | 0.2  | 0.4  | continuous                       | 0.04                        | twice per quarter                | NMR                   | Quarterly                        |
| 3                    | Line 2 West Stack        | 0.3                                      | 0.1  | 0.4  | continuous                       | NMR                         | twice per quarter                | NMR                   | Quarterly                        |
| 4                    | Line 2 East Stack        | 0.3                                      | 0.2  | 0.4  | continuous                       | 0.06                        | twice per quarter                | NMR                   | Quarterly                        |
| 5                    | Anode Plant 1 Stack      | 0.2                                      | 0.1  | 0.6  | continuous                       | NMR                         | twice per quarter                | NMR                   | Yearly                           |
| 6                    | Anode Plants 2&3 Stack   | 0.4                                      | 0.2  | 2.1  | continuous                       | 0.002                       | twice per quarter                | 373                   | Yearly                           |
| 7                    | Line 3 West Stack        | 0.3                                      | 0.2  | 0.5  | continuous                       | NMR                         | twice per quarter                | NMR                   | Quarterly                        |
| 8                    | Line 3 East Stack        | 0.3                                      | 0.2  | 0.4  | continuous                       | 0.07                        | twice per quarter                | 196                   | Quarterly                        |
| 9                    | Line 1&2 Extension Stack | 0.2                                      | 0.1  | 0.3  | continuous                       | 0.04                        | twice per quarter                | 201                   | Quarterly                        |

Notes:

There are no applicable licence limits for the above monitoring points

mg/m3 = milligrams per cubic metre

kg F / t Al = kilograms fluoride per tonne aluminium produced

NMR = No monitoring requirement

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| EPA Monitoring Point | Descriptor                                   | Total Fluoride, kg F / t Al | Monitoring frequency requirement | Licence Limit | Exceedance? |
|----------------------|--|-----------------------------|----------------------------------|---------------|-------------|
| 10                   | Potroom A Roof Vent                          | 0.40                        | Monthly                          | NA            |             |
| 11                   | Potroom B Roof Vent                          | 0.40                        | Monthly                          | NA            |             |
| 12                   | Potroom C Roof Vent                          | 0.37                        | Monthly                          | NA            |             |
| 13                   | Potroom D Roof Vent                          | 0.47                        | Monthly                          | NA            |             |
| 14                   | Potroom E Roof Vent                          | 0.34                        | Monthly                          | NA            |             |
| 15                   | Potroom F Roof Vent                          | 0.26                        | Monthly                          | NA            |             |
| 30                   | Total smelter emissions sum of point sources | 0.42                        | Monthly                          | 0.8           | No          |

Notes:

NA = No Applicable Licence Limit

kg F / t Al = kilograms fluoride per tonne aluminium produced

Comments on exceedances: \_\_\_\_\_

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### EPA Monitoring Point 16

The point of controlled discharge to the Hunter River from the stormwater pond

| Pollutant              | Units of measure | Monitoring frequency requirement | No. of times measured during month | Mean value | Maximum value | Licence Limit | Exceedance? |
|------------------------|------------------|----------------------------------|------------------------------------|------------|---------------|---------------|-------------|
| Conductivity           | uS/cm            | Daily during discharge           | NMR                                | NMR        |               | NA            |             |
| Fluoride               | mg/L             | Daily during discharge           | NMR                                | NMR        | NMR           | 40            | No          |
| pH                     | pH               | Daily during discharge           | NMR                                | NMR        | NMR           | 6.5-8.5       | No          |
| Total Suspended Solids | mg/L             | Daily during discharge           | NMR                                | NMR        | NMR           | 50            | No          |
| PAH                    | mg/L             | Each overflow event              | NMR                                | NMR        | NMR           | NA            |             |
| TRH                    | mg/L             | Each overflow event              | NMR                                | NMR        | NMR           | NA            |             |
| Volume                 | kL/day           | Daily during discharge           | NMR                                | NMR        | NMR           | 4320**        | No          |

Notes:

uS/cm = microsiemens per centimetre

mg/L = milligrams per litre

NMR = No monitoring requirement

NA = No Applicable Licence Limit

kL/day = kilolitres per day

\*\*This limit may be exceeded under wet weather conditions

Comments on exceedances: \_\_\_\_\_

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### EPA Monitoring Point 17

Discharge to utilisation area

| Pollutant              | Units of measure | Monitoring frequency requirement | No. of times measured during month | Mean value | Maximum value | Licence Limit | Exceedance? |
|------------------------|------------------|----------------------------------|------------------------------------|------------|---------------|---------------|-------------|
| BOD                    | mg/L             | Quarterly                        | NMR                                | NMR        |               | NA            |             |
| Fluoride               | mg/L             | Weekly                           | 5                                  | 4.7        |               | NA            |             |
| pH                     | pH               | Weekly                           | 5                                  | 7.0        |               | NA            |             |
| Total Suspended Solids | mg/L             | Quarterly                        | NMR                                | NMR        |               | NA            |             |
| Volume                 | mm/week          | weekly                           | 4                                  | 20         | 27            | 30            | NO          |

Notes:

NA = No Applicable Licence Limit

mm/week = millimetres per week

NMR = No monitoring requirement

BOD = Biochemical Oxygen Demand

Comments on exceedances: \_\_\_\_\_

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### EPA Monitoring Point 35

Stormwater overflow

| Pollutant | Units of measure | Monitoring frequency requirement | No. of days of overflow during month | Mean value |
|-----------|------------------|----------------------------------|--------------------------------------|------------|
| Fluoride  | mg/L             | Each overflow event              | 18                                   | 41         |
| pH        | pH               | Each overflow event              |                                      | 6.4        |
| PAH       | mg/L             | Each overflow event              |                                      | 0.001      |
| TRH       | mg/L             | Each overflow event              |                                      | 0.3        |
| Volume    | kL/day           | Continuous during discharge      |                                      | 2853       |

Notes:

There are no applicable licence limits for the above monitoring point

mg/L = milligrams per litre

kL/day = kilolitres per day