

Licence # 6163

Full licence available at:

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

Tomago Aluminium Company Limited

638 Tomago Road, Tomago NSW 2322

Monitoring Period: Apr-21

Date Published: 13/05/2021

| EPA Monitoring Point | Descriptor               | Gaseous Fluoride, mg/m <sup>3</sup> , monthly average | Gaseous Fluoride, mg/m <sup>3</sup> , minimum daily value | Gaseous Fluoride, mg/m <sup>3</sup> , maximum daily value | Monitoring frequency requirement | Total Fluoride, kg F / t Al | Monitoring frequency requirement | Sulfur Dioxide, mg/m <sup>3</sup> | Monitoring frequency requirement |
|----------------------|--------------------------|---|---|---|----------------------------------|-----------------------------|----------------------------------|-----------------------------------|----------------------------------|
| 1                    | Line 1 West Stack        | 0.3   | 0.2   | 1.0   | continuous                       | NMR                         | twice per quarter                | NMR                               | Quarterly                        |
| 2                    | Line 1 East Stack        | 0.4   | 0.3   | 0.5   | continuous                       | 0.06                        | twice per quarter                | 217                               | Quarterly                        |
| 3                    | Line 2 West Stack        | 0.2   | 0.1   | 0.5   | continuous                       | 0.05                        | twice per quarter                | NMR                               | Quarterly                        |
| 4                    | Line 2 East Stack        | 0.3   | 0.2   | 0.5   | continuous                       | 0.06                        | twice per quarter                | 214                               | Quarterly                        |
| 5                    | Anode Plant 1 Stack      | 0.2   | 0.1   | 1.4   | continuous                       | 0.001                       | twice per quarter                | NMR                               | Yearly                           |
| 6                    | Anode Plants 2&3 Stack   | 0.4   | 0.2   | 1.3   | continuous                       | 0.002                       | twice per quarter                | NMR                               | Yearly                           |
| 7                    | Line 3 West Stack        | 0.3   | 0.2   | 0.4   | continuous                       | 0.06                        | twice per quarter                | 186                               | Quarterly                        |
| 8                    | Line 3 East Stack        | 0.4   | 0.2   | 0.8   | continuous                       | NMR                         | twice per quarter                | NMR                               | Quarterly                        |
| 9                    | Line 1&2 Extension Stack | 0.2   | 0.1   | 0.4   | continuous                       | NMR                         | twice per quarter                | NMR                               | Quarterly                        |

Notes:

There are no applicable licence limits for the above monitoring points

mg/m<sup>3</sup> = 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                          | 0.42                        | Monthly                          | NA            |             |
| 11                   | Potroom B Roof Vent                          | 0.38                        | Monthly                          | NA            |             |
| 12                   | Potroom C Roof Vent                          | 0.47                        | Monthly                          | NA            |             |
| 13                   | Potroom D Roof Vent                          | 0.46                        | Monthly                          | NA            |             |
| 14                   | Potroom E Roof Vent                          | 0.34                        | Monthly                          | NA            |             |
| 15                   | Potroom F Roof Vent                          | 0.33                        | Monthly                          | NA            |             |
| 30                   | Total smelter emissions sum of point sources | 0.46                        | 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                           | 4                                  | 5.3        |               | NA            |             |
| pH                     | pH               | Weekly                           | 4                                  | 6.7        |               | NA            |             |
| Total Suspended Solids | mg/L             | Quarterly                        | NMR                                | NMR        |               | NA            |             |
| Volume                 | mm/week          | weekly                           | 4                                  | 19         | 23            | 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              | 22                                   | 50         |
| pH        | pH               | Each overflow event              |                                      | 6.5        |
| PAH       | mg/L             | Each overflow event              |                                      | <0.001     |
| TRH       | mg/L             | Each overflow event              |                                      | <0.1       |
| Volume    | kL/day           | Continuous during discharge      |                                      | 515        |

Notes:

There are no applicable licence limits for the above monitoring point

Fluoride value is a volume weighted average.

mg/L = milligrams per litre