

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: Jul-20

Date Published: 10/08/2020

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	NMR	twice per quarter	NMR	Quarterly
2	Line 1 East Stack	0.3	0.2	0.5	continuous	0.05	twice per quarter	208	Quarterly
3	Line 2 West Stack	0.3	0.1	1.3	continuous	0.04	twice per quarter	NMR	Quarterly
4	Line 2 East Stack	0.4	0.2	2.3	continuous	0.03	twice per quarter	192	Quarterly
5	Anode Plant 1 Stack	0.4	0.1	3.1	continuous	0.001	twice per quarter	NMR	Yearly
6	Anode Plants 2&3 Stack	0.3	0.2	1.7	continuous	0.002	twice per quarter	NMR	Yearly
7	Line 3 West Stack	0.3	0.2	0.5	continuous	0.03	twice per quarter	168	Quarterly
8	Line 3 East Stack	0.3	0.2	1.3	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/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	0.33	Monthly	NA	
11	Potroom B Roof Vent	0.43	Monthly	NA	
12	Potroom C Roof Vent	0.34	Monthly	NA	
13	Potroom D Roof Vent	0.44	Monthly	NA	
14	Potroom E Roof Vent	0.32	Monthly	NA	
15	Potroom F Roof Vent	0.28	Monthly	NA	
30	Total smelter emissions sum of point sources	0.39	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	3	157		NA	
Fluoride	mg/L	Daily during discharge	3	34	35	40	No
pH	pH	Daily during discharge	3	6.8	6.8	6.5-8.5	No
Total Suspended Solids	mg/L	Daily during discharge	3	10	10	50	No
PAH	mg/L	Each overflow event	1	<0.001	<0.001	NA	
TRH	mg/L	Each overflow event	1	0.4	0.4	NA	
Volume	kL/day	Daily during discharge	3	2972	3460	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

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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	3.4		NA	
pH	pH	Weekly	4	6.6		NA	
Total Suspended Solids	mg/L	Quarterly	NMR	NMR		NA	
Volume	mm/week	weekly	5	17	21	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	12	39
pH	pH	Each overflow event		5.9
PAH	mg/L	Each overflow event		0.001
TRH	mg/L	Each overflow event		0.4
Volume	kL/day	Continuous during discharge		13240

Notes:

There are no applicable licence limits for the above monitoring point

Fluoride value is a volume weighted average.

mg/L = milligrams per litre