

# Emission Sources - Maximum Allowable Emission Rates

Permit Number 32801

This table lists the maximum allowable emission rates and all sources of air contaminants on the applicant's property covered by this permit. The emission rates shown are those derived from information submitted as part of the application for permit and are the maximum rates allowed for these facilities, sources, and related activities. Any proposed increase in emission rates may require an application for a modification of the facilities covered by this permit.

Air Contaminants Data

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (6)	
			lbs/hour	TPY (4)
CARB01	Carbon Adsorption System 1 Stack (Storage Tank in the Miscellaneous Chemical Repackaging)	VOC	0.35	1.51
CARB01	Carbon Adsorption System 1 Stack (Glutaraldehyde Packaging Emissions Routed Around the CAS)	VOC	0.18	<0.01
CARB02	Carbon Adsorption System 2 Stack (Blend Tank in the Miscellaneous Chemical Repackaging)	VOC	0.35	1.51
CARB02	Carbon Adsorption System 2 Stack (Glutaraldehyde Tank Emissions Routed Around the CAS)	VOC	0.05	<0.01
CARB03	Carbon Adsorption System 3 (Blend Tanks BT1 and BT2)	VOC	0.35	1.51
CARB04	Carbon Adsorption System 4 (Blend Tanks, Flammables Loading, T-F001, T-F002, T-F007, T-F013, and T-F015)	VOC	0.04	0.17
F-1 (5)	Plant Fugitives	Cl <sub>2</sub>	0.01	<0.01
S-1	Chlorine Scrubber 1 Stack (Bleach Production and Chlorine Repackaging)	Cl <sub>2</sub>	0.01	<0.01
F-2 (5)	Plant Fugitives	Cl <sub>2</sub>	0.01	0.02
MTCE	Plant Maintenance (Replacing of Carbon Drums)	VOC	2.00	0.01

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AL-1	Off Loading Tri-Hydrate Fugitives	PM	0.63	0.04
		PM <sub>10</sub>	0.63	0.04
		PM <sub>2.5</sub>	0.63	0.04
AL-2	Off Loading Tri-Hydrate Fugitives	PM	0.37	0.19
		PM <sub>10</sub>	0.37	0.19
		PM <sub>2.5</sub>	0.37	0.19
AL-3	Off Loading Tri-Hydrate Fugitives	PM	<0.01	0.01
		PM <sub>10</sub>	<0.01	0.01
		PM <sub>2.5</sub>	<0.01	0.01
AL-4	Off Loading Bauxite Fugitives	PM	0.63	0.11
		PM <sub>10</sub>	0.63	0.11
		PM <sub>2.5</sub>	0.63	0.11
AL-5	Bauxite Hammer Mill Fugitives	PM	3.33	0.56
		PM <sub>10</sub>	3.33	0.56
		PM <sub>2.5</sub>	3.33	0.56
101	Hammer Mill Baghouse Stack	PM	0.17	0.75
		PM <sub>10</sub>	0.17	0.75
		PM <sub>2.5</sub>	0.17	0.75
100	Bauxite Fugitives	PM	<0.01	0.01
		PM <sub>10</sub>	<0.01	0.01
		PM <sub>2.5</sub>	<0.01	0.01
BOILER1	Dryback Boiler Stack	NO <sub>x</sub>	0.21	0.10
		CO	0.35	0.16
		VOC	0.02	0.01
		PM	0.03	0.01
		PM <sub>10</sub>	0.03	0.01
		PM <sub>2.5</sub>	0.03	0.01
		SO <sub>2</sub>	<0.01	<0.01
F-003	Tank F-003 Vent	VOC	0.03	<0.01

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F-004	Tank F-004 Vent	VOC	3.26	0.10
F-005	Tank F-005 Vent	VOC	<0.01	<0.01
F-008	Tank F-008 Vent	VOC	0.21	<0.01
F-009	Tank F-009 Vent	VOC	2.20	0.04
F-010	Tank F-010 Vent	VOC	0.02	<0.01
F-014	Tank F-014 Vent	Exempt Solvent	52.88	1.71
F-016	Tank F-016 Vent	VOC	0.06	<0.01
T-527	Tank 527 Vent	H <sub>2</sub> O <sub>2</sub>	0.03	<0.01
T-528	Tank 528 Vent	H <sub>2</sub> O <sub>2</sub>	0.03	<0.01
PERPKG	Blending and Packaging of Hydrogen Peroxide Fugitives	H <sub>2</sub> O <sub>2</sub>	0.14	<0.01
PKG1	Packaging of Flammable Blends Fugitives	VOC	10.34	0.22
GLPKG	Glutaraldehyde Packaging Fugitives	VOC	0.02	<0.01
BRQ	Water Scrubber 1 Stack (Potassium Hydroxide [KOH] Briquet Operations)	PM	<0.01	<0.01
		PM <sub>10</sub>	<0.01	<0.01
		PM <sub>2.5</sub>	<0.01	<0.01
20KPMB	20K Warehouse Blending Fugitive Particulates From Building Exhaust Fan B	PM	0.01	<0.01
		PM <sub>10</sub>	0.01	<0.01
		PM <sub>2.5</sub>	0.01	<0.01
20KPMC	20K Warehouse Blending Fugitive Particulates From Building Exhaust Fan C	PM	0.01	<0.01
		PM <sub>10</sub>	0.01	<0.01
		PM <sub>2.5</sub>	0.01	<0.01
FLAMFUG (5)	Flammable Area Fugitive VOC	VOC	1.34	<0.01
All Emission Points at the Site	All Sources at the Site	Individual HAP	---	<10.00
		Total HAP	---	<25.00

(1) Emission point identification - either specific equipment designation or emission point number from plot plan.

(2) Specific point source name. For fugitive sources, use area name or fugitive source name.

(3) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1  
NO<sub>x</sub> - total oxides of nitrogen

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SO <sub>2</sub>	- sulfur dioxide
PM	- total particulate matter, suspended in the atmosphere, including PM <sub>10</sub> and PM <sub>2.5</sub> , as represented
PM <sub>10</sub>	- total particulate matter equal to or less than 10 microns in diameter, including PM <sub>2.5</sub> , as represented
PM <sub>2.5</sub>	- particulate matter equal to or less than 2.5 microns in diameter
CO	- carbon monoxide
H <sub>2</sub> O <sub>2</sub>	hydrogen peroxide
Cl <sub>2</sub>	chlorine
Exempt Solvent	Those carbon compounds or mixtures of carbon compounds used as solvents which have been excluded from the definition of volatile organic compound.
HAP	- hazardous air pollutant as listed in § 112(b) of the Federal Clean Air Act or Title 40 Code of Federal Regulations Part 63, Subpart C

- (4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.
- (5) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.
- (6) Allowable emission rates include planned startup and shutdown activities.

Date: June 7, 2018