Emission Sources - Maximum Allowable Emission Rates

Permit Number 49153

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)
DM1A	Bulk Silo No. 1 Dust Collector Vent	PM	0.09	0.37
		PM_{10}	0.07	0.27
		$PM_{2.5}$	0.01	0.04
DM1B	Bulk Silo No. 2 Dust Collector Vent	PM	0.09	0.37
		PM_{10}	0.07	0.27
		$PM_{2.5}$	0.01	0.04
DM2	Classifier Dust Collector Stack	PM	<0.01	<0.01
		PM_{10}	<0.01	<0.01
		$PM_{2.5}$	<0.01	<0.01
DM3A	Bagging at Small Bagger Silo Dust Collector Stack	PM	0.11	0.42
		PM_{10}	0.08	0.31
		$PM_{2.5}$	0.01	0.05
DM3B/C	Small Bagger Silo Dust Collector Vent	PM	<0.01	<0.01
		PM_{10}	<0.01	<0.01
		$PM_{2.5}$	<0.01	<0.01
DM4A/B	Big Bagger Silo Dust Collector Vent	PM	<0.01	0.01
		PM_{10}	<0.01	<0.01
		$PM_{2.5}$	<0.01	<0.01
DM5	Raymond Mill No. 2 Dust Collector Stack	PM	<0.01	<0.01
		PM_{10}	<0.01	<0.01
		$PM_{2.5}$	<0.01	<0.01
DM6	Raymond Mill No. 1 Dust Collector Stack	PM	<0.01	<0.01
		PM_{10}	<0.01	<0.01
		$PM_{2.5}$	<0.01	<0.01
DM7A	Intermediate Storage Silo No. 1 Dust	PM	0.07	<0.01

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		PM_{10}	0.03	<0.01
		$PM_{2.5}$	0.01	<0.01
DM7B	Intermediate Storage Silo No. 2 Dust Collector Vent	PM	0.07	<0.01
		PM_{10}	0.03	<0.01
		$PM_{2.5}$	0.01	<0.01
DM7C	Intermediate Storage Silo No. 3 Dust Collector Vent	PM	0.07	<0.01
		PM_{10}	0.03	<0.01
		$PM_{2.5}$	0.01	<0.01
DM7D	Intermediate Storage Silo No. 4 Dust Collector Vent	PM	0.07	<0.01
		PM_{10}	0.03	<0.01
		$PM_{2.5}$	0.01	<0.01
DM7E	Intermediate Storage Silo No. 5 Dust Collector Vent	PM	0.07	<0.01
		PM_{10}	0.03	<0.01
		$PM_{2.5}$	0.01	<0.01
DM7F	Intermediate Storage (White) Silo No. 6 Dust Collector Vent	PM	0.24	0.94
		PM_{10}	0.17	0.70
		$PM_{2.5}$	0.03	0.11
DM8	Rotary Dryer Dust Collector Stack	PM	0.17	0.67
		PM_{10}	0.17	0.66
		$PM_{2.5}$	0.16	0.65
		NO_x	1.49	5.87
		CO	1.25	4.93
		VOC	0.08	0.32
		SO_2	0.01	0.04
DM9	Pug Mill and Conveyor Dust Collector Stack	PM	<0.01	<0.01
		PM_{10}	<0.01	<0.01
		$PM_{2.5}$	<0.01	<0.01
DM10	Hammer Mill Dust Collector Stack	PM	0.14	0.56
		PM_{10}	0.11	0.42
		$PM_{2.5}$	0.02	0.07
DM12A	D13 Product Silo Dust Collector Vent	PM	0.24	0.94

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		PM_{10}	0.18	0.70
		$PM_{2.5}$	0.03	0.11
DM12B	D14 Product Silo Dust Collector Vent	PM	0.24	0.94
		PM_{10}	0.18	0.70
		$PM_{2.5}$	0.03	0.11
DM26	Reject Silo Dust Collector Vent	PM	<0.01	<0.01
		PM_{10}	<0.01	<0.01
		$PM_{2.5}$	<0.01	<0.01
DM27A	Sorter Stockpile (5)	PM	<0.01	<0.01
		PM_{10}	<0.01	<0.01
		$PM_{2.5}$	<0.01	<0.01
DM27B	Optical Sorter Dust Collector Stack	PM	0.24	0.94
		PM_{10}	0.18	0.70
		$PM_{2.5}$	0.03	0.11
DM27C	Apron Dryer Dust Collector Stack	PM	0.25	0.99
		PM_{10}	0.19	0.75
		$PM_{2.5}$	0.05	0.18
		NO_x	0.25	0.97
		CO	0.21	0.81
		VOC	0.01	0.05
		SO_2	<0.01	0.01
DM28	Railcar Loading Dust Collector Stack	PM	<0.01	<0.01
		PM_{10}	<0.01	<0.01
		$PM_{2.5}$	<0.01	<0.01
DM29A	Railcar Unloading – North (5)	PM	0.02	<0.01
		PM_{10}	<0.01	<0.01
		$PM_{2.5}$	<0.01	<0.01
DM29B	Railcar Unloading – Conveyor East Dust Collector Stack	PM	0.23	0.09
		PM_{10}	0.17	0.07
		$PM_{2.5}$	0.03	0.01
DM29C	Railcar Unloading – Conveyor West Dust	PM	0.23	0.09

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		PM_{10}	0.17	0.07
		$PM_{2.5}$	0.03	0.01
DM31A	No. 1 South Stockpile (5)	PM	0.05	0.09
		PM_{10}	0.02	0.05
		$PM_{2.5}$	<0.01	0.01
DM31B	No. 2 South Stockpile (5)	PM	0.05	0.09
		PM_{10}	0.02	0.05
		$PM_{2.5}$	<0.01	0.01
DM32A	Stockpile North Crude Building (5)	PM	0.02	0.07
		PM_{10}	0.01	0.04
		$PM_{2.5}$	<0.01	0.01
DM32B	Truck Transfer from North Crude Building (5)	PM	0.22	0.01
		PM_{10}	0.10	<0.01
		$PM_{2.5}$	0.02	<0.01
DM36	Truck Loading at Bulk Silo No. 1 (5)	PM	0.13	<0.01
		PM_{10}	0.06	<0.01
		$PM_{2.5}$	0.01	<0.01
DM37	Truck Loading at Bulk Silo No. 2 (5)	PM	0.13	<0.01
		PM_{10}	0.06	<0.01
		$PM_{2.5}$	0.01	<0.01
DM38	Fluid Flow Dust Collector Stack	PM	<0.01	<0.01
		PM_{10}	<0.01	<0.01
		$PM_{2.5}$	<0.01	<0.01
DM39	Dry Mill Stockpiles (5)	PM	0.02	0.05
		PM_{10}	0.01	0.03
		$PM_{2.5}$	<0.01	<0.01
DM40	Pug Mill Feed Hopper (5)	PM	0.03	<0.01
		PM_{10}	0.01	<0.01
		$PM_{2.5}$	<0.01	<0.01
DM41	Sorter Feed Hopper (5)	PM	0.01	<0.01
		PM_{10}	<0.01	<0.01

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		$PM_{2.5}$	<0.01	<0.01
DM42	North Crude Stockpile No. 1 (5)	PM	0.05	0.14
		PM_{10}	0.02	0.07
		$PM_{2.5}$	<0.01	0.01
DM44	South Crude Storage Building (5)	PM	0.05	0.16
		PM_{10}	0.03	0.08
		$PM_{2.5}$	<0.01	0.02
DM45	Pug Loading Bay (5)	PM	<0.01	<0.01
		PM_{10}	<0.01	<0.01
		$PM_{2.5}$	<0.01	<0.01
DM46	Pug Soda Ash Feeder (5)	PM	<0.01	<0.01
		PM_{10}	<0.01	<0.01
		$PM_{2.5}$	<0.01	<0.01
PM47	Dryer Soda Ash Feeder (5)	PM	<0.01	<0.01
		PM_{10}	<0.01	<0.01
		$PM_{2.5}$	<0.01	<0.01
DM48	Sorter Product Mill Feed Hopper (5)	PM	0.08	<0.01
		PM_{10}	0.04	<0.01
		$PM_{2.5}$	0.01	<0.01
DM49	Hectorite Stockpile (5)	PM	<0.01	<0.01
		PM_{10}	<0.01	<0.01
		$PM_{2.5}$	<0.01	<0.01

(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_x - total oxides of nitrogen
SO_2 - sulfur dioxide
PM - total particulate matter, suspended in the atmosphere, including PM_{10} and $PM_{2.5}$, as represented
PM_{10} - total particulate matter equal to or less than 10 microns in diameter, including $PM_{2.5}$, as represented
$PM_{2.5}$ - particulate matter equal to or less than 2.5 microns in diameter
CO - carbon monoxide
(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) Planned startup and shutdown emissions are included. Maintenance activities are not authorized by this permit.

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Date: October 18, 2017