

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

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Permit Number 1008

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. 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)	<u>Emission Rates *</u>	
			lb/hr	TPY

Plant No. 1 Before Plant No. 3 is Fully Operational

P1CR1	Primary Crusher (4) (Cedarapids 4248)	PM	0.06	0.10
		PM ₁₀	0.03	0.05
P1CR2, P1CR3, and P1CR4	Secondary Crushing (4)	PM	0.38	0.70
		PM ₁₀	0.19	0.34
P1DS1, P1DS2, P1DS3, P1DS4, P1DS5, and P1WS1	Dry and Wet Screens (4)	PM	1.76	3.18
		PM ₁₀	0.84	1.52
P1MH	Material Handling (4)	PM	0.30	0.47
		PM ₁₀	0.13	0.21

Plant No. 1 After Plant No. 3 is Fully Operational

P1CR1	Primary Crusher (4) (Cedarapids 4248)	PM	0.06	0.02
		PM ₁₀	0.03	0.01
P1CR2	Secondary Crushing (4)	PM	0.35	0.13
		PM ₁₀	0.17	0.07
P1DS1, P1DS2, and P1DS3	Dry Screens (4)	PM	1.59	0.60
		PM ₁₀	0.76	0.29

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P1MH	Material Handling (4)	PM	0.57	0.21
		PM ₁₀	0.25	0.09

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			lb/hr	TPY

Plant No. 2

P2GS1	Feeder and Grizzly Screen (4)	PM	0.01	0.03
		PM ₁₀	<0.01	0.02
P2CR1	Primary Crusher (4)	PM	0.07	0.29
		PM ₁₀	0.03	0.14
P2CR2, and P2CR3	Secondary Crushing (4)	PM	0.42	1.66
		PM ₁₀	0.21	0.82
P2DS1, and P2WS1	Dry and Wet Screens No. 1 (4)	PM	0.11	0.45
		PM ₁₀	0.05	0.21
P2MH	Material Handling (4)	PM	0.02	0.08
		PM ₁₀	0.01	0.03

Plant No. 3

P3CR1, and P3CR1A	Primary Crushers (Jaw) (4)	PM	0.63	0.81
		PM ₁₀	0.30	0.38
P3DS1, P3DS2, P3DS3, P3DS2A, and P3DS3A	Dry Screens (4)	PM	0.53	1.15
		PM ₁₀	0.25	0.55
P3CR2, and P3CR2A	Secondary Crushing (4)	PM	0.10	0.22
		PM ₁₀	0.05	0.11
P3CR3, P3CR4, P3CR3A,	Tertiary Crushing (4)	PM	0.17	0.38
		PM ₁₀	0.08	0.19

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and P3CR4A

P3WS4, P3WS5, P3WS4A, P3WS5A, P3WS6, P3WS7, P3WS6A, and P3WS7A	Wet Screens (4)	PM PM ₁₀	0.09 0.04	0.19 0.09
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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY
P3MH	Material Handling (4)	PM PM ₁₀	4.29 1.87	6.82 2.98

Product Loading Operations Before Plant No. 3 is Fully Operational

PLSILO1	Storage Silo Baghouse	PM ₁₀	0.24	1.05
PLMH	Material Handling (4)	PM PM ₁₀	0.98 0.44	1.83 0.83

Product Loading Operations After Plant No. 3 is Fully Operational

PLSILO1	Storage Silo Baghouse	PM ₁₀	0.24	1.05
PLWS9, and PLWS10	Wet Screens	PM PM ₁₀	0.04 0.02	0.07 0.03
PLMH	Material Handling (4)	PM PM ₁₀	0.35 0.16	0.07 0.04
STKPILES	Stockpiles (4)	PM PM ₁₀	- -	23.60 11.80

(1) Emission point identification - either specific equipment designation or emission point number from plot plan. See Attachment C for emission point /equipment cross reference table.

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

(3) PM - particulate matter, suspended in the atmosphere, including PM₁₀.

PM₁₀ - particulate matter equal to or less than 10 microns in diameter. Where PM is not listed, it shall be assumed that no particulate matter greater than 10 microns is emitted.

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(4) Fugitive emissions are an estimate only.

* Emission rates are based on and the facilities are limited by the following maximum operating schedule and production rates:

24 Hrs/day 7 Days/week 52 Weeks/year

Plant No. 1

Primary Crusher:	1,100 Tons/hour	
Secondary Crusher No. 1:	385 Tons/hour	
Secondary Crusher No. 2:	450 Tons/hour	
Secondary Crusher No. 3:	200 Tons/hour	
Maximum Plant No. 1 Production:	1,100 Tons/hour	4,000,000 Tons/year (before
Plant 3		is fully operational)
		825,000 Tons/year (after Plant 3
		is fully operational)

Plant No. 2

Primary Crusher:	357 Tons/hour	
Secondary Crusher No. 1:	385 Tons/hour	
Secondary Crusher No. 2:	400 Tons/hour	
Maximum Plant No. 2 Production:	500 Tons/hour	4,000,000 Tons/year

Plant No. 3

Plant No. 3 production rates are located in the confidential portion of the permit file.

Date January 27, 2005