

## Emission Sources - Maximum Allowable Emission Rates

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, 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 * (5)	
			lbs/hour	TPY
Plant No. 1 Before Plant No. 3 is Fully Operational				
P1CR1	Primary Crusher (4) (Cedarapids 4248)	PM	0.06	0.10
		PM <sub>10</sub>	0.03	0.05
P1CR2, P1CR3, and P1CR4	Secondary Crushing (4)	PM	0.38	0.70
		PM <sub>10</sub>	0.19	0.34
P1DS1, P1DS2, P1DS3, P1DS4, P1DS5, and P1WS1	Dry and Wet Screens (4)	PM	1.76	3.18
		PM <sub>10</sub>	0.84	1.52
P1MH	Material Handling (4)	PM	0.30	0.47
		PM <sub>10</sub>	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 <sub>10</sub>	0.03	0.01
P1CR2	Secondary Crushing (4)	PM	0.35	0.13
		PM <sub>10</sub>	0.17	0.07
P1DS1, P1DS2, and P1DS3	Dry Screens (4)	PM	1.59	0.60
		PM <sub>10</sub>	0.76	0.29
P1MH	Material Handling (4)	PM	0.57	0.21
		PM <sub>10</sub>	0.25	0.09
Plant No. 2				
P2GS1	Feeder and Grizzly Screen (4)	PM	0.01	0.03
		PM <sub>10</sub>	< 0.01	0.02
P2CR1	Primary Crusher (4)	PM	0.07	0.29
		PM <sub>10</sub>	0.03	0.14

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P2CR2 and P2CR3	Secondary Crushing (4)	PM	0.42	1.66
		PM <sub>10</sub>	0.21	0.82
P2DS1 and P2WS1	Dry and Wet Screens No. 1 (4)	PM	0.11	0.45
		PM <sub>10</sub>	0.05	0.21
P2MH	Material Handling (4)	PM	0.02	0.08
		PM <sub>10</sub>	0.01	0.03
Plant No. 3				
P3CR1 AND P3CR1A	Primary Crushers (Jaw) (4)	PM	0.63	0.81
		PM <sub>10</sub>	0.30	0.38
P3DS1, P3DS2, P3DS3, P3DS2A, and P3DS3A	Dry Screens (4)	PM	0.53	1.15
		PM <sub>10</sub>	0.25	0.55
P3CR2 and P3CR2A	Secondary Crushing (4)	PM	0.10	0.22
		PM <sub>10</sub>	0.05	0.11
P3CR3, P3CR4, P3CR3A and, P3CR4A	Tertiary Crushing (4)	PM	0.17	0.38
		PM <sub>10</sub>	0.08	0.19
P3WS4, P3WS5, P3WS4A, P3WS5A, P3WS6, P3WS7, P3WS6A, and P3WS7A	Wet Screens (4)	PM	0.09	0.19
		PM <sub>10</sub>	0.04	0.09
P3MH	Material Handling (4)	PM	4.29	6.82
		PM <sub>10</sub>	1.87	2.98
Product Loading Operations Before Plant No. 3 is Fully Operational				
PLSILO1	Storage Silo Baghouse	PM <sub>10</sub>	0.24	1.05
PLMH	Material Handling (4)	PM	0.98	1.83
		PM <sub>10</sub>	0.44	0.83
Product Loading Operations After Plant No. 3 is Fully Operational				
PLSILO1	Storage Silo Baghouse	PM <sub>10</sub>	0.24	1.05
PLWS9 and PLWS10	Wet Screens	PM	0.04	0.07
		PM <sub>10</sub>	0.02	0.03

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PLMH	Material Handling (4)	PM	0.35	0.07
		PM <sub>10</sub>	0.16	0.04
STKPILES	Stockpiles (4)	PM	--	23.60
		PM <sub>10</sub>	--	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 - 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
- (4) Fugitive emissions are an estimate only.
- (5) Planned startup and shutdown emissions are included. Maintenance activities are not authorized by this permit.

\* 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: October 24, 2013