

## EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 38042

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
1K	Sand Receiving (4)(5)	PM	0.20	0.86
		PM <sub>10</sub>	0.10	0.43
F2	Sand Handling (4)(5)	PM	1.00	4.30
		PM <sub>10</sub>	0.50	2.15
1A	Sand Silo No. 1 (5)	PM <sub>10</sub>	<0.10	0.43
1B	Sand Silo No. 2 (5)	PM <sub>10</sub>	<0.10	0.43
1C	Sand Silo No. 3 (5)	PM <sub>10</sub>	<0.10	0.43
1D	Sand Silo No. 4 (5)	PM <sub>10</sub>	<0.10	0.43
1L	Truck Loadout (4)(5)	PM	0.04	0.06
		PM <sub>10</sub>	0.02	0.03
2G, 2I	Resin Coated Sand and Ceramics or Sand Receiving Railcar (4)(6)	PM	0.66	2.22
		PM <sub>10</sub>	0.33	1.11
2H	Resin Coated Sand and Ceramics or Sand Receiving Truck (4)(6)	PM	0.84	1.47
		PM <sub>10</sub>	0.42	0.76
F3	Resin Coated Sand and Ceramics or Sand Handling (4)(6)	PM	2.24	9.81
		PM <sub>10</sub>	0.42	1.83
2A	Resin Coated Sand and Ceramics or Sand Receiving Silo No. 1 (6)	PM <sub>10</sub>	<0.14	0.61
2B	Resin Coated Sand and Ceramics or Sand Receiving Silo No. 2 (6)	PM <sub>10</sub>	<0.14	0.61

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY
2C	Resin Coated Sand and Ceramics or Sand Receiving Silo No. 3 (6)	PM <sub>10</sub>	<0.14	0.61
2D	Resin Coated Sand and Ceramics or Sand Receiving Silo No. 4 (6)	PM <sub>10</sub>	<0.14	0.61
2E	Resin Coated Sand and Ceramics or Sand Receiving Silo No. 5 (6)	PM <sub>10</sub>	<0.14	0.61
2F	Resin Coated Sand and Ceramics or Sand Receiving Silo No. 6 (6)	PM <sub>10</sub>	<0.14	0.61
2N	Truck Loadout (4)(6)	PM	0.02	0.09
		PM <sub>10</sub>	0.01	0.04

- (1) Emission point identification - either specific equipment designation or emission point number from a plot plan.
- (2) Specific point source names. For fugitive sources use area name or fugitive source name.
- (3) PM - particulate matter, suspended in the atmosphere, including PM<sub>10</sub>.  
PM<sub>10</sub> - 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.
- (4) Fugitive emissions are an estimate only.
- (5) These emissions are maintained and operated by Badger Mining Corporation (BMC).
- (6) These emissions are maintained and operated by Borden Chemical Incorporated (Borden).

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

**BMC:**

Sand Receiving:	<u>70</u> Tons/hour	<u>613,200</u> Tons/year
Sand Conveying:	<u>70</u> Tons/hour	<u>613,200</u> Tons/year
Storage Silos:	<u>70</u> Tons/hour	<u>613,200</u> Tons/year
Truck Loadout:	<u>150</u> Tons/hour	<u>613,200</u> Tons/year

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Borden:

Resin Coated Sand and Ceramics Receiving:	<u>80(railcar)-100 (pneumatic)</u> Tons/hour	<u>876,000</u>
	Tons/year	

Resin Coated Sand and Ceramics Handling:	<u>80(railcar)-100 (pneumatic)</u> Tons/hour	<u>876,000</u>
	Tons/year	

Storage Silos:	<u>80(railcar)-100 (pneumatic)</u> Tons/hour	<u>876,000</u>
	Tons/year	

Truck Loadout:	<u>100</u> Tons/hour	<u>876,000</u> Tons/year
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Dated\_\_\_\_\_