Emission Sources - Maximum Allowable Emission Rates

Permit Number 46560

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	
			lbs/hour	TPY (4)
6118-MS-50405	Product Silo No. 1 Baghouse	VOC	(6)	(6)
		PM	(6)	(6)
		PM_{10}	(6)	(6)
		$PM_{2.5}$	(6)	(6)
6118-MS-50407	Product Silo No. 2 Baghouse	VOC	(6)	(6)
		PM	(6)	(6)
		PM_{10}	(6)	(6)
		$PM_{2.5}$	(6)	(6)
6118-MS-50409	Product Silo No. 3 Baghouse	VOC	(6)	(6)
		PM	(6)	(6)
		PM_{10}	(6)	(6)
		$PM_{2.5}$	(6)	(6)
6118-MS-50411	Product Silo No. 4 Baghouse	VOC	(6)	(6)
		PM	(6)	(6)
		PM_{10}	(6)	(6)
		$PM_{2.5}$	(6)	(6)
6118-MS-50400	Product Silo No. 5 Baghouse	VOC	(6)	(6)
		PM	(6)	(6)
		PM_{10}	(6)	(6)
		$PM_{2.5}$	(6)	(6)
6118-MS-50429	Product Silo No. 6 Baghouse	VOC	(6)	(6)
		PM	(6)	(6)
		PM_{10}	(6)	(6)
		$PM_{2.5}$	(6)	(6)

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6118-MS-50430	Product Silo No. 7 Baghouse	VOC	(6)	(6)
		PM	(6)	(6)
		PM_{10}	(6)	(6)
		$PM_{2.5}$	(6)	(6)
6118-MS-50431	Product Silo No. 8 Baghouse	VOC	(6)	(6)
		PM	(6)	(6)
		PM_{10}	(6)	(6)
		$PM_{2.5}$	(6)	(6)
6118-MS-50432	Product Silo No. 9 Baghouse	VOC	(6)	(6)
		PM	(6)	(6)
		PM_{10}	(6)	(6)
		$PM_{2.5}$	(6)	(6)
6118-MS-50433	Product Silo No. 10 Baghouse	VOC	(6)	(6)
		PM	(6)	(6)
		PM_{10}	(6)	(6)
		$PM_{2.5}$	(6)	(6)
6118-MS-50434	Product Silo No. 11 Baghouse	VOC	(6)	(6)
		PM	(6)	(6)
		PM_{10}	(6)	(6)
		$PM_{2.5}$	(6)	(6)
6118-MS-50435	Product Silo No. 12 Baghouse	VOC	(6)	(6)
		PM	(6)	(6)
		PM_{10}	(6)	(6)
		$PM_{2.5}$	(6)	(6)
6118-MS-50508	Railcar Loading Baghouse	VOC	(6)	(6)
		PM	(6)	(6)
		PM_{10}	(6)	(6)
		$PM_{2.5}$	(6)	(6)

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6118-MS-50456	Railcar Loading Baghouse	VOC	(6)	(6)
		PM	(6)	(6)
		PM_{10}	(6)	(6)
		$PM_{2.5}$	(6)	(6)
6118-MS-50518	Railcar Loading Baghouse	VOC	(6)	(6)
		PM	(6)	(6)
		PM_{10}	(6)	(6)
		$PM_{2.5}$	(6)	(6)
6118-T-50303	Fines/Overs Removal	VOC	(6)	(6)
		PM	(6)	(6)
		PM_{10}	(6)	(6)
		$PM_{2.5}$	(6)	(6)
		HCl	(7)	(7)
6118-T-50304	Fines/Overs Removal	VOC	(6)	(6)
		PM	(6)	(6)
		PM_{10}	(6)	(6)
		$PM_{2.5}$	(6)	(6)
		HCl	(7)	(7)
Fine/Over Removal Cap	Fine/Overs Removal Cap (7)	HCl	1.05	2.19
Baghouse Cap	Baghouse Cap (6)	VOC	25.34	16.93
		PM	0.90	3.34
		PM_{10}	0.90	3.34
		$PM_{2.5}$	0.90	3.34
6118-C-50504	Additive Addition Station	PM	(8)	(8)
		PM_{10}	(8)	(8)
		$PM_{2.5}$	(8)	(8)
6118-C-50413	Additive Addition Station	PM	(8)	(8)
		PM_{10}	(8)	(8)
		$PM_{2.5}$	(8)	(8)

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Additive Addition Station Cap	Additive Addition Station Cap (8)	PM	0.10	0.01
		PM_{10}	0.10	0.01
		$PM_{2.5}$	0.10	0.01
6118-C-50507	Vacuum Baghouse	PM	(9)	(9)
		PM_{10}	(9)	(9)
		$PM_{2.5}$	(9)	(9)
6118-C-50508	Vacuum Baghouse	PM	(9)	(9)
		PM_{10}	(9)	(9)
		$PM_{2.5}$	(9)	(9)
6118-C-1061	Vacuum Baghouse	PM	(9)	(9)
		PM_{10}	(9)	(9)
		$PM_{2.5}$	(9)	(9)
Vacuum Baghouse Cap	Vacuum Baghouse Cap (9)	PM	0.03	0.04
		PM_{10}	0.03	0.04
		$PM_{2.5}$	0.03	0.04
6118-FUG	Fugitives (5)	VOC	1.45	6.33
		$TiCl_4$	0.01	0.03
6118-T-50801	Flare	VOC	83.79	49.88
		$TiCl_4$	4.26	0.06
		NO_X	9.86	10.27
		CO	50.81	52.93
		SO_2	0.02	0.02
		Aluminum alkyl	0.02	0.01
		Ethyl chloride	5.59	0.14
6118-MN-50801	Main Unit Sump	VOC	(10)	(10)
6118-MS-50881	East Unit Sump	VOC	(10)	(10)
6118-MS-4183	TCCR GUR Sump	VOC	(10)	(10)
Unit Sump Cap	Unit Sump Cap (10)	VOC	0.02	0.07
T2-CT2	Trioxane Unit Cooling Tower	VOC	1.55	6.81

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		PM	0.58	1.99
		PM_{10}	0.40	1.12
		$PM_{2.5}$	0.01	0.01
6118-CT-50800	GUR Cooling Tower	VOC	0.23	1.01
		PM	0.09	0.30
		PM_{10}	0.06	0.17
		$PM_{2.5}$	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
HCl - hydrogen chloride
$TiCl_4$ - titanium tetrachloride
(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) Emission cap includes normal operations from EPNs 6118-MS-50405, 6118-MS-50407, 6118-MS-50409, 6118-MS-50411, 6118-MS-50400, 6118-MS-50508, 6118-T-50303, 6118-MS-50429, 6118-MS-50430, 6118-MS-50431, 6118-MS-50432, 6118-MS-50433, 6118-MS-50434, 6118-MS-50435, 6118-MS-50456, 6118-MS-50518, and 6118-T-50304.
(7) Emission cap includes normal operations from EPNs 6118-T-50303 and 6118-T-50304.
(8) Emission cap includes normal operations from EPNs 6118-C-50504 and 6118-C-50413.
(9) Emission cap includes normal operations from EPNs 6118-C-50507, 6118-C-50508, and 6118-C-1061.
(10) Emission cap includes normal operations from EPNs 6118-MN-50801, 6118-MS-50881, and 6118-MS-4183.

Date: February 21, 2023