

Emission Sources - Maximum Allowable Emission Rates

Permit Number 9423 and N202

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)
FL-3706	Elevated Flare	VOC (6)	153.73	77.69
		Ethylene	153.73	77.69
		Propylene	153.73	77.69
		CO	127.74	102.48
		NO _x	24.80	19.89
		SO ₂	0.78	2.00
D-885	Waste Oil Loading	VOC	0.06	<0.01
PP-ANALYZER	Analyzer Vents	VOC	0.01	0.03
		CO	0.01	0.05
		NO _x	<0.01	0.01
E-CAP	Emission Cap for Various EPNs (9)	VOC	9.75	19.39
		Exempt Solvent	7.36	26.19
Cooling Towers				
CT-895	West Marley Cooling Tower	VOC (5) (6)	1.89	6.19
		Ethylene	1.89	6.19
		Propylene	1.89	6.19
		PM	0.59	1.95
		PM ₁₀	0.33	1.09
		PM _{2.5}	<0.01	<0.01
CT-6901	East Marley Cooling Tower	VOC (5) (6)	0.84	2.44
		Ethylene	0.84	2.44
		Propylene	0.84	2.44
		PM	0.26	0.77
		PM ₁₀	0.15	0.43
		PM _{2.5}	<0.01	<0.01

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Xcel Marley 3 Cooling Tower	VOC (5) (6)	1.02	2.97	
		Ethylene	1.02	2.97
		Propylene	1.02	2.97
		PM	0.32	0.93
		PM ₁₀	0.18	0.52
		PM _{2.5}	<0.01	<0.01
CT-4861	DLX Cooling Tower	PM	0.04	0.05
		PM ₁₀	<0.01	0.02
		PM _{2.5}	<0.01	<0.01
C-Line EPNs				
D-3103	TEAL Seal pot Drum	VOC	<0.01	<0.01
D-3105	Oil/Grease Blending Drum	VOC	<0.01	<0.01
D-3106	Catalyst Dispersion Drum	VOC	<0.01	<0.01
D-3106B	Catalyst Dispersion Drum	VOC	<0.01	<0.01
D-3107	Hydraulic Oil Drum	VOC	<0.01	<0.01
D-3110A	Donor Metering Drum	VOC	<0.01	<0.01
D-3113	Additive Drum Seal Pot	VOC	0.02	<0.01
D-3504	Stabilizer Additive Drum	VOC	0.15	0.02
		PM	0.03	<0.01
		PM ₁₀	0.02	<0.01
		PM _{2.5}	<0.01	<0.01
TK-880	Mineral Oil Tank	VOC	0.09	<0.01
T-3111	Bulk Donor Tank	VOC	<0.01	<0.01
TK-2527A	CLX Mineral Oil Tank	VOC	0.22	<0.01
TK-2527B	CLX Mineral Oil Tank	VOC	0.22	<0.01
TK-5104C	CLX Peroxide Tank	VOC	0.04	0.01
C-FUG	C-Line Fugitives	VOC (6)	2.66	11.66
		Propylene	2.12	9.26
Project Number: 337191		D-Line EPNs		
D-4103	TEAL Seal Pot Drum	VOC	<0.01	<0.01

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Grease Belding Drum	VOC	<0.01	<0.01	
D-4106A	Catalyst Dispersion Drum	VOC	<0.01	<0.01
D-4106B	Catalyst Dispersion Drum	VOC	0.02	<0.01
D-4107	Hydraulic Oil Drum	VOC	0.01	<0.01
D-4110A	Donor Metering Drum	VOC	<0.01	<0.01
D-4110B	Donor Metering Drum	VOC	<0.01	<0.01
D-4504	Stabilizer Additive Drum	VOC	0.11	<0.01
		PM	0.03	<0.01
		PM ₁₀	0.02	<0.01
PM _{2.5}				
<0.01				
<0.01				
D-4706	DLN Additive Drum	VOC	0.07	<0.01
T-4111	Bulk Donor Tank	VOC	<0.01	<0.01
D-FUG	D-Line Fugitives	VOC (6)	2.78	12.17
		Ethylene	0.02	0.10
		Propylene	2.22	9.71
E-Line EPNs				
D-6103	TEAL Seal Pot Drum	VOC	<0.01	<0.01
D-6105	Grease Blending Drum	VOC	<0.01	<0.01
D-6105B	Oil Blending Drum	VOC	<0.01	<0.01
D-6106A	Catalyst Dispersion Drum	VOC	0.02	<0.01
D-6106B	Catalyst Dispersion Drum	VOC	0.02	<0.01
D-6107	Hydraulic Oil Drum	VOC	<0.01	<0.01
D-6110A	Donor Metering Drum	VOC	<0.01	<0.01
D-6110B	Donor Metering Drum	VOC	<0.01	<0.01
D-6113	Additive Drum Seal Pot	VOC	0.17	0.06
D-6850	DLX/ELX Peroxide Tank	VOC	0.04	0.01
T-6111	Bulk Donor Tank	VOC	<0.01	<0.01
E-FUG	E-Line Fugitives	VOC (6)	8.39	36.74

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Line Polymer Transfer, Loading/Unloading, Extrusion and Vacuum Cleaning Systems				
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M-2573	Railcar Unloading (Flake)	VOC	(7)	(7)
		PM	0.21	0.90
		PM ₁₀	0.21	0.90
		PM _{2.5}	0.21	0.90
M-2574	Railcar Unloading (Flake)	VOC	(7)	(7)
		PM	0.21	0.90
		PM ₁₀	0.21	0.90
		PM _{2.5}	0.21	0.90
M-42591 C-Line Railcar Loading (Flake) VOC (7) (7)				
F-583	D-Line Railcar Loading (Flake)	VOC	(7)	(7)
S-2580	DLX Centralized Vent System	VOC	(7)	(7)
		PM	0.13	0.56
		PM ₁₀	0.13	0.56
		PM _{2.5}	0.13	0.56
D-4801-03	DLX Pellet Silos	VOC	(7)	(7)
F-4842	DLX Railcar Loading (Pellets)	VOC	(7)	(7)
F-5101	CLX Centralized Vent System	PM	0.20	0.88
		PM ₁₀	0.20	0.88
		PM _{2.5}	0.20	0.88
		VOC	(7)	(7)
		PM	0.06	0.26
		PM ₁₀	0.06	0.26
		PM _{2.5}	0.06	0.26
F-6802	ELX Centralized Vent System	VOC	(7)	(7)
		PM	0.10	0.43
Project Number: 337191		PM ₁₀	0.10	0.43
		PM _{2.5}	0.10	0.43
F-5303 CLX Railcar Loading (Pellets) VOC				

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D-4103

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TEAL Seal Pot Drum	VOC	<0.01	<0.01	
D-4105	Oil Blending Drum	VOC	<0.01	<0.01
D-4105A	Grease Belding Drum	VOC	<0.01	<0.01
D-4106A	Catalyst Dispersion Drum	VOC	<0.01	<0.01
D-4106B	Catalyst Dispersion Drum	VOC	0.02	<0.01
D-4107	Hydraulic Oil Drum	VOC	0.01	<0.01
D-4110A	Donor Metering Drum	VOC	<0.01	<0.01
D-4110B	Donor Metering Drum	VOC	<0.01	<0.01
D-4504	Stabilizer Additive Drum	VOC	0.11	<0.01
		PM	0.03	<0.01
		PM ₁₀	0.02	<0.01
		PM _{2.5}	<0.01	<0.01
D-4706	DLN Additive Drum	VOC	0.07	<0.01
T-4111	Bulk Donor Tank	VOC	<0.01	<0.01
D-FUG	D-Line Fugitives	VOC (6)	2.78	12.17
		Ethylene	0.02	0.10
		Propylene	2.22	9.71
E-Line EPNs				
D-6103	TEAL Seal Pot Drum	VOC	<0.01	<0.01
D-6105	Grease Blending Drum	VOC	<0.01	<0.01
D-6105B	Oil Blending Drum	VOC	<0.01	<0.01
D-6106A	Catalyst Dispersion Drum	VOC	0.02	<0.01
D-6106B	Catalyst Dispersion Drum	VOC	0.02	<0.01
D-6107	Hydraulic Oil Drum	VOC	<0.01	<0.01
D-6110A	Donor Metering Drum	VOC	<0.01	<0.01
D-6110B	Donor Metering Drum	VOC	<0.01	<0.01
D-6113	Additive Drum Seal Pot	VOC	0.17	0.06
D-6850 Project Number: 337191	DLX/ELX Peroxide Tank	VOC	0.04	0.01
T-6111	Bulk Donor Tank	VOC	<0.01	<0.01

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	Ethylene	2.23	9.76	
		Propylene	4.71	20.64
C-Line, D-Line, and E-Line Polymer Transfer, Loading/Unloading, Extrusion and Vacuum Cleaning Systems				
M-2573	Railcar Unloading (Flake)	VOC	(7)	(7)
		PM	0.21	0.90
		PM ₁₀	0.21	0.90
		PM _{2.5}	0.21	0.90
M-2574	Railcar Unloading (Flake)	VOC	(7)	(7)
		PM	0.21	0.90
		PM ₁₀	0.21	0.90
		PM _{2.5}	0.21	0.90
M-42591	C-Line Railcar Loading (Flake)	VOC	(7)	(7)
F-583	D-Line Railcar Loading (Flake)	VOC	(7)	(7)
S-2580	DLX Centralized Vent System	VOC	(7)	(7)
		PM	0.13	0.56
		PM ₁₀	0.13	0.56
		PM _{2.5}	0.13	0.56
D-4801-03	DLX Pellet Silos			
VOC				
(7)				
(7)				
F-4842	DLX Railcar Loading (Pellets)	VOC	(7)	(7)
		PM	0.20	0.88
		PM ₁₀	0.20	0.88
		PM _{2.5}	0.20	0.88
F-5101	CLX Centralized Vent System	VOC	(7)	(7)
Project Number: 337191		PM	0.06	0.26
		PM ₁₀	0.06	0.26

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ELX Centralized Vent System	VOC	(7)	(7)	
		PM	0.10	0.43
		PM ₁₀	0.10	0.43
		PM _{2.5}	0.10	0.43
F-5303	CLX Railcar Loading (Pellets)	VOC	(7)	(7)
		PM	0.05	0.20
		PM ₁₀	0.05	0.20
		PM _{2.5}	0.05	0.20
F-6841-42	ELX Railcar Loading (Pellets)	VOC	(7)	(7)
		PM	0.69	2.25
		PM ₁₀	0.69	2.25
		PM _{2.5}	0.69	2.25
Ancillary Equipment				
U-FUG	Utilities Fugitive	VOC (6)	1.98	8.67
PP-SAMPL	Sampling Vents	Ethylene	0.26	1.14
		Propylene	1.58	6.93
		VOC	<0.01	<0.01
PP-WWTR Polypropylene Wastewater VOC 1.95 0.87				
MSS				
MSS41	C-Line Maintenance Shutdown	VOC	15.48	0.15
MSS42	D-Line Maintenance Shutdown	VOC	15.48	0.15
MSS43	E-Line Maintenance Shutdown	VOC	26.22	0.26
MSS44	Bullets Area Maintenance Shutdown	VOC	26.22	0.01
MSS46	C-Line Compressor Maintenance	VOC	0.01	<0.01
MSS47 Project Number: 337191	D-Line Compressor Maintenance	VOC	0.01	<0.01
MSS48	E-Line Compressor Maintenance	VOC	0.01	<0.01

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	System	PM	0.10	0.43
		PM ₁₀	0.10	0.43
		PM _{2.5}	0.10	0.43
F-5303	CLX Railcar Loading (Pellets)	VOC	(7)	(7)
		PM	0.05	0.20
		PM ₁₀	0.05	0.20
		PM _{2.5}	0.05	0.20
F-6841-42	ELX Railcar Loading (Pellets)	VOC	(7)	(7)
		PM	0.69	2.25
		PM ₁₀	0.69	2.25
		PM _{2.5}	0.69	2.25
Ancillary Equipment				
U-FUG	Utilities Fugitive	VOC (6)	1.98	8.67
		Ethylene	0.26	1.14
		Propylene	1.58	6.93
PP-SAMPL	Sampling Vents	VOC	<0.01	<0.01
PP-WWTR	Polypropylene Wastewater	VOC	1.95	0.87
MSS				
MSS41	C-Line Maintenance Shutdown	VOC	15.48	0.15
MSS42	D-Line Maintenance Shutdown	VOC	15.48	0.15
MSS43	E-Line Maintenance Shutdown	VOC	26.22	0.26
MSS44	Bullets Area Maintenance Shutdown	VOC	26.22	0.01
MSS46	C-Line Compressor Maintenance	VOC	0.01	<0.01
MSS47	D-Line Compressor Maintenance	VOC	0.01	<0.01
MSS48	E-Line Compressor Maintenance	VOC	0.01	<0.01
MSS49	C-Line Pump Maintenance	VOC	0.06	<0.01
MSS50	D-Line Pump Maintenance	VOC	0.06	<0.01
MSS51				

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(1) Emission point identification	VOC - either specific equipment designation or emission point number from plot plan.	0.06	<0.01
(2) Specific point source name. For fugitive sources, use area name or fugitive source name.			
(3) Exempt Solvent - Empty Solvent	These carbon compounds or mixtures of carbon compounds used as solvents which have been excluded from the definition of volatile organic compound.	0.06	<0.01
MSS53	VOC	19.48	\$104.1
MSS54	NO _x	15.48	0.06
MSS55	PM ₁₀	26.22	0.14
MSS56	PM _{2.5}	0.03	<0.01
MSS57	CO	0.03	<0.01
(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) The allowable emission rates for individual VOC species from this EPN are included in the total VOC emission rates. This includes HRVOC species such as propylene and ethylene.			
(7) The combined total VOC emissions for all EPNs with this note shall not exceed the emission rates indicated for EPN E-CAP.			
(8) The combined annual allowable emissions for this EPN are authorized under EPN Elevated Flare.			
(9) The following EPNs are included in the VOC Emission Cap: F-5101, F-583, F-6802, F-303, F-6841-42, M-42591, M-2573, M-2574, S-2580, D-4801-03, and F-4842.			
Ethylene			
540.00			
(8)			
		Date: July 27, 2022	
	Propylene	540.00	(8)
	CO	383.79	(8)
	NO _x	74.50	(8)