

Emission Sources - Maximum Allowable Emission Rates

Permit Numbers 18978 and PSDTX753M4

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)
QE1001B	Furnace 1	NO _x	30.30	121.26
		CO	24.71	31.34
		SO ₂	0.30	1.31
		VOC	0.70	3.00
		PM ₁₀	1.00	3.50
QE1002B	Furnace 2	NO _x	30.30	121.26
		CO	24.71	31.34
		SO ₂	0.30	1.31
		VOC	0.70	3.00
		PM ₁₀	1.00	3.50
QE1003B	Furnace 3	NO _x	30.30	121.26
		CO	24.71	31.34
		SO ₂	0.30	1.31
		VOC	0.70	3.00
		PM ₁₀	1.00	3.50
QE1004B	Furnace 4	NO _x	30.30	121.26
		CO	24.71	31.34
		SO ₂	0.30	1.31
		VOC	0.70	3.00

Emission Sources - Maximum Allowable Emission Rates

		PM ₁₀	1.00	3.50
QE1005B	Furnace 5	NO _x	30.30	121.26
		CO	24.71	31.34
		SO ₂	0.30	1.31
		VOC	0.70	3.00
		PM ₁₀	1.00	3.50
QE1006B	Furnace 6	NO _x	30.3	121.26
		CO	24.71	31.34
		SO ₂	0.30	1.31
		VOC	0.70	3.00
		PM ₁₀	1.00	3.50
QE1007B	Furnace 7	NO _x	30.30	121.26
		CO	24.71	31.34
		SO ₂	0.30	1.31
		VOC	0.70	3.00
		PM ₁₀	1.00	3.5
QE1008B	Furnace 8	NO _x	30.30	121.26
		CO	24.71	31.34
		SO ₂	0.30	1.31
		VOC	0.70	3.00
		PM ₁₀	1.00	3.50
QE1009B	Furnace 9	NO _x	31.75	126.58
		CO	33.92	34.45
		SO ₂	0.36	1.56
		VOC	0.83	3.63

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		PM ₁₀	2.10	6.57
QE5802UA	Boiler A	NO _x	22.50	89.70
		CO	20.14	30.27
		SO ₂	0.14	0.61
		VOC	1.43	1.91
		PM ₁₀	0.34	1.49
QE5802UB	Boiler B	NO _x	22.50	89.70
		CO	20.14	30.27
		SO ₂	0.14	0.61
		VOC	1.43	1.91
		PM ₁₀	0.34	1.49
QECOMP1	Diesel Compressor	NO _x (PSD)	6.10	17.21
		CO (PSD)	0.05	0.14
		SO ₂	0.13	0.37
		VOC	0.14	0.41
		PM ₁₀ (PSD)	0.07	0.19
QECOMP2A/B	Diesel Compressor	NO _x (PSD)	6.10	17.21
		CO (PSD)	0.05	0.14
		SO ₂	0.13	0.37
		VOC	0.14	0.41
		PM ₁₀ (PSD)	0.07	0.19
QECOMP3	Diesel Compressor	NO _x	2.33	9.39
		CO	0.50	2.02
		SO ₂	0.15	0.62
		VOC	0.19	0.76

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		PM ₁₀	0.17	0.67
QE6410F	Pyrolysis Gasoline Tank	VOC	2.10	7.90
QE6411F	Pyrolysis Fuel Oil Tank	VOC	0.02	0.09
QE2410F	Wash Oil Drum	VOC	0.60	0.07
QE1416F	Decoking Drum	CO (PSD)	841.00	326.00
		PM ₁₀ (PSD)	0.32	0.55
		PM _{2.5} (PSD)	0.16	0.37
		VOC	0.07	0.06
QE7801U	Cooling Tower (5)	VOC	7.14	31.27
QE3418F	MAPD Decoke Pot	CO (PSD)	17.30	0.31
QE3050B	ARU Flare	CO (PSD)	21.00	8.98
		NO _x (PSD)	4.04	1.73
		SO ₂	0.10	0.10
		VOC	15.02	1.38
QE3050MAINT	ARU Flare Maintenance	CO	50.65	1.27
		NO _x	9.74	0.24
		SO ₂	0.10	0.10
		VOC	78.60	1.97
QE8050B	Elevated Flare	CO (PSD)	171.6	49.5
		NO _x (PSD)	76.74	23.20
		SO ₂	10.30	0.30
		VOC	44.95	10.95
QE8050MAINT	Elevated Flare Maintenance	CO	62.10	0.10
		NO _x	12.00	0.20
		SO ₂	10.30	0.01

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		VOC	58.00	0.10
QE7412F	Wash Oil Tank	VOC	0.67	0.13
QELOAD	Organic Loading	VOC	1.40	1.24
QESTORE	Organic Storage	VOC	0.98	1.01
QE8001A	Wastewater System	VOC	3.18	13.94
QELAB	Analyzers and Sampling	VOC	7.04	2.25
QEFUG	Process Fugitives (5)	VOC	19.25	84.31
QEANALYZ2	Analyzer's Control Devices (Thermal Oxidizer)	VOC	0.01	0.01
		CO (PSD)	0.01	0.01
		NO _x (PSD)	0.01	0.01
QEUNIT	Dock Thermal Oxidizer (6)	NO _x (PSD)	14.68	4.7
		CO (PSD)	17.73	6.23
		VOC	23.77	7.22
		PM ₁₀ (PSD)	0.01	0.02
PW7614JA	Emergency Engine	NO _x	15.1	1.7
		CO	3.25	0.37
		VOC	1.22	0.14
		SO ₂	1.00	0.11
		PM ₁₀	1.07	0.12
PW7605JB	Emergency Engine	NO _x	15.84	6.94
		CO	3.63	1.59
		VOC	0.47	0.20
		SO ₂	5.34	2.34
		PM ₁₀	0.46	0.20
PW7605JC	Emergency Engine	NO _x	15.84	6.94

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		CO	3.63	1.59
		VOC	0.47	0.20
		SO ₂	5.34	2.34
		PM ₁₀	0.46	0.20
7407F	Sulfuric Acid Tank	H ₂ SO ₄	0.01	0.01
7701LL3F	Sulfuric Acid Tank	H ₂ SO ₄	0.01	0.01
7803UL1F	Sulfuric Acid Tank	H ₂ SO ₄	0.01	0.01
8703LF5	Sulfuric Acid Tank	H ₂ SO ₄	0.01	0.01
QEPRCIN	PRC/ERC Inert Vent	VOC	0.05	0.22
QEPGCIN	PGC Inert Vent	VOC	0.32	1.38
QE1ANLYZR4	Analyzer Thermal Oxidizer	NO _x	0.01	0.01
		CO	0.01	0.01
		VOC	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
 SO₂ - sulfur dioxide
 PM₁₀ - 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
- (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 dock thermal oxidizer is owned and operated by LyondellBasell Acetyls, LLC, under Permit Number 4751.

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