

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 49023

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)	Emission Rates *	
			lb/hr	TPY**
E04A002	Storage Tank	VOC (9)	15.20	0.19
E04A003	Storage Tank	VOC (9)	3.04	0.19
E04A004	Storage Tank	VOC (9)	3.04	0.19
E04A005	Storage Tank	VOC (9)	3.04	0.19
E04A006	Storage Tank	VOC (9)	3.04	0.19
E04A007	Storage Tank	VOC (9)	3.04	0.19
E04A008	Storage Tank	VOC (9)	15.38	0.19
E04A009	Storage Tank	VOC (9)	15.38	0.19
E04A010	Storage Tank	VOC (7)	70.88	0.24
E04A011	Storage Tank	VOC (7)	70.88	0.24
E04A012	Storage Tank	VOC (7)	70.88	0.24
E04A013	Storage Tank	VOC (7)	70.88	0.24
E04A016	Storage Tank	VOC (9)	24.58	1.50
E04A017	Storage Tank	VOC (9)	24.58	1.49
E04A018	Storage Tank	VOC (9)	24.58	1.49

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E04A019	Storage Tank	VOC (9)	9.91	0.25
E04A020	Storage Tank	VOC (9)	3.30	0.19
E04A021	Storage Tank	VOC (9)	29.73	0.19
E04A022	Storage Tank	VOC (9)	29.73	0.19
E04A023	Storage Tank	VOC (9)	29.73	0.19
E04A024	Storage Tank	VOC (9)	35.95	0.19
E04A025	Storage Tank	VOC (9)	29.73	0.19
E04A026	Storage Tank	VOC (9)	35.95	0.19
E04A027	Storage Tank	VOC (9)	32.77	0.19
E04A028	Storage Tank	VOC (9)	15.20	0.19
E04A029	Storage Tank	VOC (9)	15.20	0.19
E04A030	Storage Tank	VOC (9)	29.73	0.19
E04A033	Storage Tank	VOC (9)	0.02	0.19
E09A032	No. 3 Olefins Flare (5)	CO	0.72	0.97
		Acetone	37.99	43.83
		NO _x	5.26	6.07
		VOC	178.30	138.92
E10B003	Storage Tank	VOC	2.44	0.04
E10B004	Storage Tank	VOC	2.44	0.04
E10B005	Storage Tank	VOC (6)	42.40	0.25

E10B006	Storage Tank	VOC	2.70	0.04
E10B007	Storage Tank	VOC	4.50	0.15
E10B008	Storage Tank	VOC	4.50	0.15
E10B009	Storage Tank	VOC	15.68	0.06
E10B010	Storage Tank	VOC (7)	14.33	0.17
E10B011	Storage Tank	VOC (7)	14.33	0.14
E10B013	Storage Tank	VOC	21.97	0.08
E10B014	Storage Tank	VOC	4.63	0.11
E10B015	Storage Tank	VOC	4.50	0.29
E10B016	Storage Tank	VOC	4.50	0.29
E10B017	Storage Tank	VOC	4.50	0.35
E10B018	Storage Tank	VOC	4.50	0.29
E10B019	Storage Tank	VOC	1.57	0.07
E10B020	Storage Tank	VOC	1.57	0.05
E10B021	Storage Tank	VOC	3.92	0.02
E10B022	Storage Tank	VOC	1.50	0.06
E10B023	Storage Tank	VOC	6.24	0.03
E10B025	Storage Tank	VOC	8.62	0.03

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			lb/hr	TPY**

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**
E10B026	Storage Tank	VOC	5.71	0.06
E10B028	Storage Tank	VOC	3.92	0.10
E10B031	Column Vent (6)	VOC	36.80	89.74
E10B032	Column Vent (6)	VOC	1.31	5.39
E10B033	Column Vent (6)	VOC	0.30	0.69
E10B034	Column Vent (6)	VOC	10.40	10.51
E10B039	Storage Tank (6)	VOC	15.73	0.27
E10B041	Storage Tank (6)	VOC	15.73	0.24
E10B042	Storage Tank	VOC	8.62	0.01
E10B050	Refining and Hydrogenation Flare (5)	CO	120.15	109.95
		NO _x	15.08	17.50
		SO ₂	0.12	
		VOC	21.63	
E10B100	Storage Tank	VOC	2.44	0.04
E10B101	Storage Tank	VOC	38.19	0.04
E10B102	Storage Tank	VOC	15.68	0.05

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**
E10B103	Column Vent (6)	VOC	57.92	54.67
E10B104	Column Vent (6)	VOC	12.61	33.61
E10C060	Synthesis Gas Flare (5)	CO	0.26	0.66
		NO _x	0.05	0.13
		VOC	1.01	2.59
E10D002	Column Vent (6)	VOC	22.95	11.90
E10D003	Column Vent (6)	VOC	22.95	11.16
E10E002	Storage Tank	VOC	0.50	0.05
E10E012	Storage Tank	VOC	1.57	0.04
E10E013	Storage Tank	VOC	1.57	0.05
E10E014	Column Vent (6)	VOC	0.52	2.28
E10E101	Storage Tank	VOC	0.03	0.01
E10F002	Storage Tank	VOC (8)	1.08	0.20
E10F003	Storage Tank	VOC (8)	1.69	0.01
E10F004	Storage Tank	VOC (8)	1.69	0.01
E10G002	Storage Tank	VOC	21.97	0.73
E10G003	Storage Tank	VOC	21.97	0.73
E10G004	Storage Tank	VOC	11.87	0.60
E10G005	Storage Tank	VOC	11.87	0.60

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**
E10G006	Storage Tank	VOC	21.97	0.29
E10G007	Storage Tank	VOC	28.29	0.25
E10G010	Column Vent (6)	VOC	7.12	18.68
E10H002	Storage Tank	VOC (10)	21.97	0.16
E10H003	Storage Tank	VOC (10)	21.97	0.36
E10H004	Storage Tank	VOC (7)	4.63	0.07
E10H006	Storage Tank	VOC (8)	2.19	0.40
E10H007	Storage Tank	VOC (7)	1.57	0.01
E10H008	Storage Tank	VOC (7)	1.57	0.01
E10H009	Storage Tank	VOC (7)	2.70	0.01
E10H011	Storage Tank	VOC (7)	14.33	0.05
E10H012	Storage Tank	VOC (7)	14.33	0.09
E10H013	Storage Tank	VOC (7)	2.39	0.02
E10H014	Storage Tank	VOC (7)	2.39	0.02
E10H015	Storage Tank	VOC (7)	2.85	0.01
E10H016	Storage Tank	VOC (7)	0.96	0.01
E10H017	Storage Tank	VOC (7)	2.68	0.01
E10H018	Storage Tank	VOC (7)	2.68	0.01

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**
E10H019	Storage Tank	VOC (7)	2.13	0.08
E10H020	Storage Tank	VOC (7)	2.13	0.02
E10H021	Storage Tank	VOC (7)	2.70	0.01
E10H022	Storage Tank	VOC (7)	2.68	0.01
E10H023	Storage Tank	VOC (7)	2.70	0.01
E10H024	Storage Tank	VOC (7)	2.70	0.01
E10H025	Storage Tank	VOC (7)	2.70	0.01
E10H026	Storage Tank	VOC (7)	14.33	0.03
E10H027	Storage Tank	VOC (7)	14.33	0.05
E10H028	Storage Tank	VOC (7)	15.40	0.08
E10H030	Storage Tank	VOC	15.40	0.21
E10H032	Storage Tank	VOC (7)	0.74	0.01
E10H033	Storage Tank	VOC	54.95	0.36
E10H034	Storage Tank	VOC	54.95	0.36
E10H035	Storage Tank	VOC (7)	14.33	0.12
E10H036	Storage Tank	VOC (7)	14.33	0.11
E10H050	Storage Tank	VOC (7)	14.33	0.08
E10H051	Storage Tank	VOC (7)	14.33	0.07

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**
E12A007	Storage Tank	VOC (6)	46.13	0.04
E12A009	Storage Tank	VOC (6)	18.87	0.37
E12A010	Storage Tank	VOC (6)	18.87	0.37
E12A013	Storage Tank	VOC (6)	55.81	1.43
E12A014	Storage Tank	VOC (6)	55.81	1.43
E12A015	Storage Tank	VOC (6)	55.81	1.43
E12A030	B17 Esters Truck Loading	VOC	19.75	0.05
E12B003	Storage Tank	VOC	21.16	0.10
E12B004	Storage Tank	VOC	3.80	0.52
E12B009	Storage Tank	VOC	6.57	0.01
E12B012	Storage Tank	VOC (6)	22.75	0.57
E12B013	Storage Tank	VOC (6)	13.65	0.53
E12B014	Storage Tank	VOC (6)	13.65	0.69
E12B015	Storage Tank	VOC (6)	13.65	0.69
E12B016	Storage Tank	VOC	13.04	0.04
E12B017	Storage Tank	VOC	2.14	0.23
E12B018	Refining Column (6)	VOC	2.45	6.00
E12B019	Refining Column (6)	VOC	0.79	1.63

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
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E12B020	Refining Column (6)	VOC	0.51	1.86
E12B021	Refining Column (6)	VOC	0.79	2.08
E12B022	Storage Tank	VOC	23.44	0.11
E12B023	Storage Tank	VOC	19.87	0.16
E12B024	Storage Tank	VOC	40.96	0.13
E12B101	Storage Tank	VOC	22.75	0.11
E12D010	Isopropanol Spent Reactant Loading	VOC	0.12	0.01
F04A001	Ethanol Process Fugitives (4)	VOC	8.23	36.03
F10B001	RAH Process Fugitives (4)	VOC	17.73	77.64
F12A001	Building 17 Esters (4) Process Fugitives	VOC	1.36	5.94
F12B001-01	Building 24 Esters (4) Process Fugitives	VOC	1.82	7.97

- (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 an area name or fugitive source name.
- (3) CO - carbon monoxide
 NO_x - total oxides of nitrogen
 SO₂ - sulfur dioxide
 VOC - volatile organic compounds as defined in the Title 30 Texas Administrative Code §

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			lb/hr	TPY**

101.1

- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) Contributions from these permitted facilities are emitted from this Emission Point Number (EPN).
- (6) This EPN will be vented to EPN E10B050 by December 31, 2005.
- (7) This EPN will be permanently shutdown and rendered inoperable by December 31, 2005.
- (8) This EPN will operate as a constant level fixed-roof storage tank within one year of permit issuance.
- (9) This EPN will be permanently shutdown and rendered inoperable by December 31, 2004.
- (10) This EPN will be permanently shutdown and rendered inoperable by December 31, 2005 and operated as a constant level fixed roof storage tank until that time.

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

24 Hrs/day 7 Days/week 52 Weeks/year

** Compliance with annual emission limits is based on a rolling 12-month period.

Dated _____