

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 6382

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 **
A38S31	S-31 Absorber	VOC	0.28	1.22
		NH ₃	0.01	0.01
A38S123	S-123 Absorber	VOC	0.01	0.01
A38S61	S-61 Absorber	VOC	0.10	0.44
A38S501	S-501 Absorber	VOC	0.03	0.13
A38S100	S-100 Absorber	VOC	0.02	0.11
A38S540	S-540 Absorber	VOC	0.12	0.05
A38S503R	S-503 Absorber	VOC	0.18	0.80
A38S545	S-545 Absorber	VOC	0.14	0.06
A28S420	S-420 Absorber	VOC	0.07	0.29
A38S296	S-296 Absorber	VOC	0.22	0.96
A38S396	S-396 Absorber	VOC	0.21	0.74
A38COOLTWR	Cooling Tower	VOC	0.02	0.10
		NH ₃	0.03	0.12

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A38FUGITIV	Fugitives Emissions (4) Main Ethyleneamines Plant	NH ₃	0.20	0.88
		VCM	0.32	1.42
		EDC	0.46	2.00
		VOC (5)	2.01	8.80
		HCl	0.01	0.04
A38D40	Storage Tank D-40	NaOH	0.01	0.01
A38D104	Storage Tank D-104	VOC	0.14	0.02
A38SU1056	Sump SU-1056	VOC	0.02	0.01
		NH ₃	0.01	0.01
A38SU1057	Sump SU- 1057	VOC	0.05	0.01
		NH ₃	0.01	0.01
A38SU1059	Sump SU-1059	VOC	0.09	0.01
		NH ₃	0.01	0.01
A38SU1060	Sump SU-1060	VOC	0.03	0.12
		NH ₃	0.01	0.01
A38D101	Storage Tank D-101	VOC	0.01	0.01
A38D102	Storage Tank D-102	VOC	0.18	0.01
A38D107	Storage Tank D-107	VOC	0.01	0.01
A38D108	Storage Tank D-108	VOC	0.44	0.36
A38D109	Storage Tank D-109	VOC	0.02	0.02
A38D111	Storage Tank D-111	VOC	0.01	0.01
A38D112	Storage Tank D-112	VOC	0.78	(6)
A38D113	Storage Tank D-113	VOC	0.55	(6)

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A38AEPCAP	AEP Tank Group (Storage Tanks D-112 & D-113)	VOC		0.06
A38D116	Storage Tank D-116	VOC	0.06	0.01
A38D155	Storage Tank D-155	VOC	0.09	0.01
A38D156	Storage Tank D-156	VOC	0.09	(7)
A38D157	Storage Tank D-157	VOC	0.11	(7)
A38TETACAP	Crude TETA Tank Group (Storage Tanks D-156 & D-157)	VOC		0.18
A38D31B	Storage Tank D-31B	VOC	0.11	0.02
A38D32	Storage Tank D-32	VOC	0.01	0.01
A38D42	Storage Tank D- 42	VOC	0.01	0.01
A38D103	Storage Tank D-103	VOC	0.19	(8)
A38D105	Storage Tank D-105	VOC	0.19	(8)
A38D159	Storage Tank D-159	VOC	0.19	(8)
A38TEPACAP	TEPA Tank Group (Storage Tanks D-103, D-105, D-159)	VOC		0.03
A38D106	Storage Tank D-106	VOC	0.01	0.02
A38D114	Storage Tank D-114	VOC	0.01	0.01
A38D115	Storage Tank D-115	VOC	0.01	0.01
A38D117	Storage Tank D-117	VOC	0.04	0.02

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY **
A38D118	Storage Tank D-118	VOC	0.01	(9)
A38D119	Storage Tank D-119	VOC	0.01	(9)
A38E100CAP	E100 Tank Group (Storage Tanks D-118 & D-119)	VOC		0.02
A38D120	Storage Tank D-120	VOC	0.01	0.01
A38D121	Storage Tank D-121	VOC	0.03	0.01
A38D149	Storage Tank D-149	VOC	0.01	0.01
A38D153	Storage Tank D-153	VOC	0.05	0.01
A38D154	Storage Tank D-154	VOC	0.01	0.01
A38D404	Storage Tank D-404	ammonium sulfate	0.01	0.01
A38D421	Storage Tank D-421	VOC	0.01	0.01
A38D423	Storage Tank D-423	VOC	0.01	0.01
A38D425	Storage Tank D-425	VOC	0.01	0.01
A38D601	Wastewater Tank D-601	VOC	0.01	0.01
		NH ₃	0.01	0.02
A38D602	Wastewater Tank D-602	VOC	0.01	0.01
A38D603	Mixed Amines Tank D-603	VOC	5.94	0.13
A38D604	Mixed Amines Tank D-604	VOC	5.80	0.13
A38D660	Storage Tank D-660	VOC	0.50	1.16
		NH ₃	0.35	0.13
A38D661	Storage Tank D-661	VOC	0.50	1.16

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY **
		NH ₃	0.35	0.13
A38D700	Storage Tank D-700	VOC	0.01	0.01
A38BD4	Storage Tank BD-4	VOC	0.01	0.01
A38PARTCLR	Maintenance Parts Cleaner	VOC	0.25	0.25
A38LAGOON1	Lagoon 1	VOC	0.04	0.05
A38LAGOON2	Lagoon 2	VOC	0.15	0.16
A38WD201	West Ditch	VOC	0.06	0.01
A38SU1052	Sump SU-1052	VOC	0.10	0.01
A38CS500	CS-500 Adsorber	VOC	0.01	0.04
A38SU1062	Sump SU-1062	VOC	0.97	0.06
		NH ₃	0.03	0.01
A38SU1063	Sump SU-1063	VOC	0.09	0.01
		NH ₃	0.01	0.01
A38SU1064	Sump SU-1064	VOC	0.09	0.01
		NH ₃	0.01	0.01
A38SU1065	Sump SU-1065	VOC	0.10	0.01
		NH ₃	0.01	0.01
A38SU1066	Sump SU-1066	VOC	0.09	0.01
		NH ₃	0.01	0.01
A38SU1067	Sump SU-1067	VOC	0.01	0.01
		NH ₃	0.01	0.01
A38SU1068	Sump SU-1068	VOC	0.02	0.01

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY **
A38WW	Wastewater Collection System	VOC	0.04	0.41
		NH ₃	0.01	0.02
A38D700A	Castmate & Mormate Drumming	VOC	0.01	0.01
LOADFUG	Tank Car Loading Fugitives	VOC	0.16	0.07
MSS-Line	MSS Line Breaks	VOC	0.38	0.01
		NH ₃	0.03	0.01
MSS-Wash	MSS Washouts	VOC	4.42	0.01
		NH ₃	0.01	0.01
MSS-Pan	MSS Pan Emissions	VOC	0.82	0.06
		NH ₃	0.01	0.01
MSS-Tran	MSS Transfer Pumps	VOC	0.14	0.01
		NH ₃	0.01	0.01
MSS-Frac	MSS Frac Tanks	VOC	5.49	0.62
		NH ₃	0.63	1.00
MSS-Prim	MSS Priming Pumps	VOC	4.00	0.01
		NH ₃	2.00	0.01
MSS-Aero	MSS Aerosols	VOC	11.25	0.31

(1) Emission point identification - either specific equipment designation or emission point number (EPN) 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

NH₃ - ammonia

VCM - vinyl chloride monomer

EDC - ethylene dichloride

HCl - hydrochloric acid

NaOH - sodium hydroxide

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- (4) Emission rate is an estimate and compliance is demonstrated by meeting the requirements of the applicable special conditions and permit application representations.
- (5) The EDC and VCM emissions are included in total VOC.
- (6) Annual VOC emission rate is included in the AEP Tank Group Cap (EPN A38AEPCAP).
- (7) Annual VOC emission rate is included in the Crude TETA Tank Group Cap (EPN A38TETACAP).
- (8) Annual VOC emission rate is included in the TEPA Tank Group Cap (EPN A38TEPACAP).
- (9) Annual VOC emission rate is included in the E100 Tank Group Cap (EPN A38E100CAP).

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

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

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

Dated: October 13, 2010