

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 1980

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

<u>Emission Rates *</u>	<u>Source</u>	<u>Air Contaminant</u>	<u>Emission</u>	
<u>Point No. (1)</u>	<u>Name (2)</u>	<u>Name (3)</u>	<u>lb/hr</u>	<u>TPY**</u>
65	Storage Tank 65	VOC	21.13	3.55
66	Storage Tank 66	VOC	31.61	2.13
131	Storage Tank 131	VOC	21.08	6.02
133	Storage Tank 133	VOC	21.21	6.62
204	Storage Tank 204	VOC	17.38	4.65
205	Storage Tank 205	VOC	18.07	7.96
1500	Storage Tank 1500 (12)	VOC	22.23	6.67
1502	Storage Tank 1502	VOC	19.38	6.44
1503	Storage Tank 1503 (11)	VOC	21.83	9.40
1504	Storage Tank 1504 (14)	VOC	21.57	8.27
1507	Storage Tank 1507 (14)	VOC (5)	21.92	8.02
		VOC (6)	21.52	8.02
1508	Storage Tank 1508 (11)	VOC	21.49	7.89
1509	Storage Tank 1509 (11)	VOC	21.49	7.89
1510	Storage Tank 1510 (13)	VOC	21.48	7.89

1515	Storage Tank 1515	VOC	19.47	6.87
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Emission Rates *	Source	Air Contaminant	Emission	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY**

1516	Storage Tank 1516 (13)	VOC	20.73	6.97
1517	Storage Tank 1517 (12)	VOC	21.13	7.99
1518	Storage Tank 1518 (12)	VOC	16.84	8.76
1519	Storage Tank 1519 (13)	VOC (5)	18.66	9.87
		VOC (6)	18.17	9.87
1521	Storage Tank 1521 (14)	VOC	18.30	10.43
1522	Storage Tank 1522	VOC	14.56	5.88
1523	Storage Tank 1523	VOC	14.57	5.93
1524	Storage Tank 1524	VOC	14.57	5.93
1525	Storage Tank 1525	VOC	14.59	5.89
1526	Storage Tank 1526	VOC	14.57	5.93
1527	Storage Tank 1527	VOC	14.59	5.89
1529	Storage Tank 1529	VOC	11.62	7.54
1530	Storage Tank 1530	VOC	11.62	7.54
1531	Storage Tank 1531	VOC	11.51	7.09
1532	Storage Tank 1532	VOC	11.62	7.54
1533	Storage Tank 1533	VOC	13.75	9.49
1534	Storage Tank 1534	VOC	14.90	14.44
1535	Storage Tank 1535	VOC (5)	15.16	5.89

VOC (6) 14.77 5.89

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Point No. (1)	Name (2)	Name (3)	lb/hr	TPY**
1536	Storage Tank 1536	VOC (5)	15.16	5.92
		VOC (6)	14.77	5.92
1537	Storage Tank 1537	VOC (5)	14.33	6.60
		VOC (6)	13.94	6.60
1538	Storage Tank 1538	VOC	13.94	6.60
1539	Storage Tank 1539	VOC	13.82	6.44
1540	Storage Tank 1540	VOC	13.86	6.40
1541	Storage Tank 1541	VOC	8.77	10.08
1542	Storage Tank 1542	VOC	8.77	10.08
1543	Storage Tank 1543	VOC	9.78	6.56
1544	Storage Tank 1544	VOC	9.78	6.56
1545	Storage Tank 1545	VOC (5)	10.17	6.56
		VOC (6)	9.78	6.56
1546	Storage Tank 1546	VOC	8.68	9.97
1547	Storage Tank 1547	VOC	14.02	6.81
1548	Storage Tank 1548	VOC (5)	13.06	7.01
		VOC (6)	12.50	7.01
1549	Storage Tank 1549	VOC	9.78	6.56
1550	Storage Tank 1550	VOC (5)	13.06	7.01
		VOC (6)	12.50	7.01

1551	Storage Tank 1551	VOC	8.49	9.39
1552	Storage Tank 1552	VOC	8.71	10.08

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Emission Rates *	Source	Air Contaminant	<u>Emission</u>	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY**
1553	Storage Tank 1553	VOC (5)	12.92	6.41
		VOC (6)	12.35	6.41
1554	Storage Tank 1554	VOC (5)	9.10	10.08
		VOC (6)	8.71	10.08
1555	Storage Tank 1555	VOC	12.50	6.96
1556	Storage Tank 1556	VOC	14.54	19.35
1557	Storage Tank 1557	VOC	14.54	19.35
1558	Storage Tank 1558	VOC	9.94	9.21
1559	Storage Tank 1559	VOC	9.02	10.60
1560	Storage Tank 1560	VOC	9.02	10.60
1561	Storage Tank 1561	VOC	9.02	10.60
1562	Storage Tank 1562	VOC	8.99	10.51
1563	Storage Tank 1563	VOC	8.68	10.37
1564	Storage Tank 1564	VOC	8.68	10.37
1565	Storage Tank 1565	VOC	8.68	10.37
1566	Storage Tank 1566	VOC	8.95	10.25
1567	Storage Tank 1567	VOC	8.95	10.25
1568	Storage Tank 1568	VOC	8.95	10.25

1569	Storage Tank 1569	VOC	8.99	10.37
1570	Storage Tank 1570 (10)	VOC	8.99	10.37
1571	Storage Tank 1571 (10)	VOC	8.99	10.37

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<u>Point No. (1)</u>	<u>Name (2)</u>	<u>Name (3)</u>	<u>lb/hr</u>	<u>TPY**</u>
1572	Storage Tank 1572 (11)	VOC	8.95	10.25
1573	Storage Tank 1573 (11)	VOC	8.95	10.25
1574	Storage Tank 1574 (11)	VOC	8.95	10.25
1575	Storage Tank 1575 (11)	VOC	19.14	6.78
1576	Storage Tank 1576 (12)	VOC	8.95	10.25
1577	Storage Tank 1577 (12)	VOC	11.35	8.37
1578	Storage Tank 1578 (12)	VOC	8.95	10.25
1579	Storage Tank 1579 (12)	VOC	19.14	6.78
1580	Storage Tank 1580 (13)	VOC	8.95	10.25
1581	Storage Tank 1581 (13)	VOC	11.35	8.37
1582	Storage Tank 1582 (13)	VOC	11.35	8.37
1583	Storage Tank 1583 (13)	VOC	8.95	10.25
1584	Storage Tank 1584 (14)	VOC	8.95	10.25
1585	Storage Tank 1585 (14)	VOC	8.95	10.25
1586	Storage Tank 1586 (14)	VOC	11.35	8.37
TANKCAP	Annual Emission Cap	VOC (7)		605.38

TANKCAP	Annual Emission Cap 600.00	VOC (7) (10)
TANKCAP	Annual Emission Cap 600.00	VOC (7) (11)
TANKCAP	Annual Emission Cap 600.00	VOC (7) (12)
TANKCAP	Annual Emission Cap 600.00	VOC (7) (13)

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<u>Point No. (1)</u>	<u>Name (2)</u>	<u>Name (3)</u>	<u>lb/hr</u>	<u>TPY**</u>
TANKCAP	Annual Emission Cap 600.00	VOC (7) (14)		
F-TRML	Process Fugitive Emissions (4)	VOC	7.23	31.68
DEGAS	Uncontrolled Tank Degassing (8)	VOC	311.97	6.58
COMBUST	Portable Vapor Combustor	CO	69.82	3.87
		NO _x	34.97	1.94
		SO ₂	0.15	0.01
		VOC (9)	233.25	9.85

- (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) CO - carbon monoxide
NO_x - total oxides of nitrogen
SO₂ - sulfur dioxide
VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
- (4) Emission rate is an estimate and compliance is demonstrated by meeting the requirements of the applicable special conditions and permit application representations.
- (5) Pre emission control upgrade
- (6) Post emission control upgrade
- (7) This is the maximum allowable rolling twelve month combined emission rate from routine storage and roof landings for all floating roof storage tanks covered by this permit. All storage tanks are subject to its individually listed hourly and annual VOC emission rate. In addition, the total annual

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VOC emission rate from all of the floating roof storage tanks shall not exceed the listed EPN ALLTANKS emission limit.

- (8) These are maximum VOC emissions for floating roof storage tank degassing to the atmosphere. Hourly emissions are based on no more than one floating roof storage tank being degassed to the atmosphere at any one time. Annual emissions are based on up to 20 floating roof storage tanks being degassed to the atmosphere in any 12 month period. Annual emissions are for a rolling 12 month basis.
- (9) These are maximum VOC emissions from the venting of planned landing, degassing and refloating emissions to the portable vapor combustor. Hourly emissions are based on emissions from no more than two floating roof storage tanks being vented to the portable vapor combustor at any one time. Annual emissions are for a rolling 12 month basis.
- (10) Storage tank numbers 1570 and 1571 will start construction in November 2011. EPN TANKCAP is in effect between November 1, 2011 and December 31, 2013.
- (11) Storage tank numbers 1572 through 1575 will start construction between November 2011 and December 2013. Storage tank numbers 1503, 1508 and 1509 will be removed from service between November 2011 and December 2013. EPN TANKCAP is in effect between January 1, 2014 and December 31, 2014.
- (12) Storage tank numbers 1576 through 1579 will start construction between January 2013 and December 2014. Storage tank numbers 1500, 1517 and 1518 will be removed from service between January 2013 and December 2014. EPN TANKCAP is in effect between January 1, 2015 and December 31, 2015.
- (13) Storage tank numbers 1580 through 1583 will start construction between January 2014 and December 2015. Storage tank numbers 1510, 1516 and 1519 will be removed from service between January 2014 and December 2015. EPN TANKCAP is in effect between January 1, 2016 and December 31, 2016.
- (14) Storage tank numbers 1584 through 1586 will start construction between January 2015 and December 2016. Storage tank numbers 1504, 1507 and 1521 will be removed from service between January 2015 and December 2016. EPN TANKCAP is in effect on and after January 1, 2017.

* 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 month day, 2011