## Permit Number 5546

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	Source	Air Contaminant	<u>Emissio</u>	Emission Rates *	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY**	
303M1239		CO NO <sub>x</sub> O <sub>2</sub> 0.75 OC 218.10	189.34 31.39 0.13 26.40	23.40 3.71	
303M1239	Ethylene Flare (Start-Up, Shutdown, and Maintenance Operation)	CO NO <sub>x</sub> SO <sub>2</sub> VOC	85.50 16.80 0.20 123.90	0.10 0.01 0.01 0.20	
302M330, 302M331 and 302M460		S CO VOC PM <sub>10</sub> O <sub>2</sub> 3.05 Ox 14.97	89.18 4.64 3.39 7.16 39.97	100.80 3.48 6.48	
100CAT	Catalyst Emissions	VOC	2.95	0.42	
100GB	Guard Bed Regeneration	SO <sub>2</sub>	13.40	0.32	
100ANAL	Butanol Unit Building 1 Vent Analyzer	VOC CO	1.26 0.18	5.53 0.77	
100GRPTK	Combined Emission Points Tanks V30, V34, and V35	VOC	64.94	2.93	
251AV37	Tank V-37	VOC	0.67	0.40	
100V984	Tank V-984	VOC	0.80	0.40	

# AIR CONTAMINANTS DATA

Emission	Source	Ai	r Contaminant	Emission Rates *	
Point No. (1)	Name (2)		Name (3)	lb/hr	TPY**
100V865	Tank V-865		VOC	0.74	0.82
251AV866	Tank V-866		VOC	0.74	0.82
251AV994	Tank V-994		VOC	1.11	0.70
251AV995	Tank V-995		VOC	1.11	0.70
100V500	Tank V-500		VOC	0.74	1.40
100V501	Tank V-501		VOC	0.74	1.40
100V502	Tank V-502		VOC	0.74	1.40
251AV38	Tank V-38		VOC	1.01	2.10
100V1034	Tank V-1034		VOC	1.07	2.40
251AV829	Tank V-829		VOC	1.04	2.16
100V23	Tank V-23		VOC	0.25	0.05
100V917	Tank V-917		VOC	0.01	0.05
251AV119	Tank V-119 (from T-104)		VOC	4.80	0.18
100F	Fugitives (4)	СО	VOC 0.80	7.40 3.40	32.50
100V1263	Tank V-1263		VOC	0.33	0.57
108A	Propanol Unit Analyzers	СО	VOC 0.10	0.20 0.50	0.70
108A	Propanol Unit Analyzers		СО	0.02	0.11

#### AIR CONTAMINANTS DATA

Emission	Source	Air	Contaminant	Emission Rates *	
Point No. (1)	Name (2)		Name (3)	lb/hr	TPY**
108C	Catalyst Emissions		VOC	1.30	0.11
251AV36	Tank 36		VOC	1.32	0.90
251AV39	Tank 39		VOC	1.32	0.80
251AV94	Tank 94		VOC	1.32	0.90
251CV646	Tank 646		VOC	1.10	0.40
251CV984	Tank 984		VOC	1.10	0.40
108AV978	Tank 978		VOC	0.01	0.01
108F	Fugitives (4) (5)	СО	VOC 0.36	5.11 1.57	22.36
108F	Fugitives (4) (5)		VOC	0.12	0.24

- (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
  - NO<sub>x</sub> oxides of nitrogen
  - CO carbon monoxide
  - $PM_{10}$  particulate matter (PM) equal to or less than 10 microns in diameter. Where PM is not listed, it shall be assumed that no PM greater than 10 microns is emitted.
  - CO carbon monoxide
  - SO<sub>2</sub> sulfur dioxide
- (4) Fugitive emissions are an estimate only and should not be considered a maximum allowable emission rate.
- (5) Fugitive emissions (EPNs 108F) are not authorized by Permit Number 5546. These emissions are being referenced only and are still authorized by Permit by Rule Number 71351, issued in April 2004.

	hedule:
	Hrs/day <u>24</u> Days/week <u>7</u> Weeks/year <u>52</u> or Hrs/year
<b>**</b>	Compliance with annual emission limits is based on a rolling 12-month period.

Dated March 23, 2007