Permit No. 19123

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.

Emission	Source Ai	r Contaminant	Emission Rates *	
Point No. (1)	Name (2)	Name (3)	lb/hr	<u>TPY</u>
EYCRKR1417	Cracker Nos. 14 through 17 (6) Combustion Emissions with Cracker Nos. 1 through 7 as backups VOC	PM/PM ₁₀ CO SO ₂ NO _x 2.72	3.8 32.6 0.30 40.4 11.2	15.4 134 1.24 166
EYCRK1417D	Cracker Nos. 14 through 17 Decoking Emissions with Cracker Nos. 1 through 7 as backups	PM PM ₁₀ CO	1.4 0.8 80.2	0.08 0.04 4.4
EY001CT	East Cooling Tower	VOC	42.8	54.79
EY001LR	Railcar Loading	Ethylene	25.18	3.15
EY002LR	Truck Loading/Unloading	Ethylene	25.78	5.39
EY003LR	Truck Loading	VOC	0.17	0.34
EY005FL	Olefins Flare	CO SO ₂ NO _X VOC	5.19 0.01 0.72 10.3	6.76 0.02 0.93 12.7
EY006CT	South Cooling Tower	VOC	42.8	55.66
EY018ST	Cracker No. 13 Combustion Emissions	$\begin{array}{c} PM/PM_{10} \\ CO \\ SO_2 \\ NO_X \\ VOC \end{array}$	1.57 17.1 0.13 31.4 1.13	6.87 75.1 0.55 137 4.94

Emission	Source	Air Contaminant	Emission	mission Rates *	
Point No. (1)	Name (2)	Name (3)	lb/hr	<u>TPY</u>	
EY021ST	Heater D1.602	PM/PM_{10} CO SO_2 NO_X VOC	0.04 0.42 <0.01 0.50 0.03	0.17 1.83 0.013 2.19 0.12	
EY023ST	Cracker Nos. 8 through 12 Combustion Emissions	PM/PM_{10} CO SO_2 NO_X VOC	1.95 21.32 0.15 33.8 1.4	8.02 87.9 0.63 139 5.8	
EY029FE	Olefins Fugitives (4)	VOC	2.13	9.32	
EY030CT	North Cooling Tower	VOC	45.0	59.34	
EY041ST	Cracker Nos. 8 through 12 Decoking Emissions	PM PM ₁₀ CO	4.54 2.48 33.4	0.57 0.32 4.36	
EY051TK	Flush Oil Tank	VOC	0.71	0.51	
EY052TK	Methanol Tank	Methanol	3.20	0.061	
EY055ST	Cracker No. 13 Decoke Decoking Emissions	PM PM ₁₀ CO	2.8 1.53 20.6	0.08 0.04 0.57	
EY057ST	Heater D1.601	PM/PM_{10} CO SO_2 NO_X VOC	0.04 0.42 <0.01 0.5 0.03	0.17 1.83 0.013 2.2 0.12	
EY101AN	Analyzer Vent	VOC	0.14	0.6	
EY300AN EY400AN	Analyzer Vent Analyzer Vent	VOC VOC	0.21 0.12	0.93 0.51	

Emission	Source	Air Contaminant		Emission Rates *	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY	
EY500AN	Analyzer Vent	VOC	0.05	0.23	
EY700AN	Analyzer Vent	VOC	0.05	0.20	
EY701AN	Analyzer Vent	VOC	0.04	0.16	
EY900AN	Analyzer Vent	VOC	0.12	0.51	
EY901FE	Olefins Fugitives (4)	VOC Chlorine	13.24 0.06	57.92 0.26	
EYMSAN	Analyzer Vent	VOC	<0.01	<0.01	
EYNEWAN	Analyzer Vent	VOC	<0.01	<0.01	
LL11138VN	Seal Vessel	Mineral Oil	<0.01	<0.01	
LL11210VN	Thermal Stabilizer Stg	Hexane	8.09	0.08	
LL11302VN	Silo	PM/PM ₁₀	0.46	0.20	
LL11412VN	Dust Collector	PM/PM ₁₀ VOC	0.55 15.90	1.10 58.00	
LL11502VN	Dust Collector	PM/PM ₁₀	1.11	2.01	
LL11509VN	Unloading Receiver	PM/PM ₁₀	0.16	0.09	
LL11702VN	Drain Vessel	Hexane	1.22	0.08	
LL11801CT	LLDPE Cooling Tower	VOC	0.84	1.06	
LL11801ST	Heater	PM/PM_{10} CO SO_2 NO_X VOC	0.27 2.9 0.02 2.12 0.2	1.16 12.7 0.09 9.3 0.84	
LL11801TK	Storage Tank	Hexane	0.42	0.73	

Emission	Source	Air Contaminant	Emissi	on Rates *
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
LL11801VN	Storage Tank	Multitherm	<0.01	<0.01
LL11802FL	LLDPE Plant Flare	CO SO ₂ NO _X VOC HCI	13.86 <0.01 1.62 24.0 10.41	23.45 0.025 11.62 78.56 3.77
LL11802TK	Storage Tank	Hexane	0.38	0.69
LL11802VN	Storage Tank	Multitherm	<0.01	<0.01
LL11803TK	Storage Tank	VOC	5.97	0.24
LL11804TK	Storage Tank	Octene	0.16	0.12
LL11806VN	Cleaning Tank	VOC	<0.01	<0.01
LL11807TK	Storage Tank	VOC	0.23	0.36
LL11810TK	Storage Tank	VOC	0.18	0.33
LL1001FE	LLDPE Process Fugitives (4)	VOC Ammonia	1.44 0.02	6.41 0.11
LLSUMPVN	Wastewater Sump	VOC	0.01	0.05
LLWLOADVN	Heavy Ends Loading	VOC	1.00	0.08
ST101FL	Styrene Plant Flare (5)	CO SO ₂ NO _X VOC Sulfur Compounds	1.95 <0.01 0.27 5.49 <0.01	1.87 0.03 0.26 2.70 <0.01

Emission	Source	Air Contaminant	Emission Rates *	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
UP001LR	Railcar Loading/Unloading	VOC	2.04	1.72
UP002LR	Truck Loading/Unloading	VOC	1.02	2.69
UP010FE	Loading/Storage Fugitives (4)	VOC	0.47	2.07
UP011FE	Flare Fugitives (4)	Ethylene	0.014	0.061
UP030LR	Aromatic Conc. Loading	VOC Sulfur Compounds	8.63 <0.01	1.59 <0.01

- (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 area name or fugitive source name.
- (3) VOC volatile organic compounds as defined in 30 Texas Administrative Code Section 101.1
 - NO_X total oxides of nitrogen
 - SO₂ sulfur dioxide
 - PM particulate matter, suspended in the atmosphere, including PM₁₀.
 - PM_{10} particulate matter equal to or less than 10 microns in diameter. Where PM is not listed, it shall be assumed that no particulate matter greater than 10 microns is emitted.
 - CO carbon monoxide
 - HCl hydrogen chloride
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) Flare emissions shown are those related to Permit No. 19123 facilities only. The flare is operating under TNRCC Air Quality Permit No. 5611.
- (6) EPN EYCRKR1417 is an emissions cap for EPNs EY053ST and EY054ST.

^	schedule:	re based on and	the facilities are iim	nited by the follow	ring maximum operating
	Hrs/day	Days/week	Weeks/year or _	<u>8,760</u> Hrs/year	

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