Permit Number 4445

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, sources, and related activities. 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.	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
(1)			lbs/hour	TPY (4)
VS-202	A Plant Flare	VOC	94.35	51.92
		NOx	12.71	12.65
		СО	80.87	70.22
		SO2	0.12	0.51
		Methyl Acetate	0.38	0.36
VS-203	B Plant Flare	VOC	63.67	0.51
		NOx	5.20	1.5
		СО	10.38	2.00
		SO2	0.09	0.38
VS-205	Inhibitor System Vent	VOC	2.35	0.13
VS-206	Tank Scrubber	VOC	6.91	2.37
		Methyl Acetate	2.87	0.16
VS-207	Tank Scrubber (5)	VOC	0.86	2.75
VS-207A	Wastewater Tank (5)	VOC	0.01	0.01
VS-208	Tank Scrubber	VOC	0.14	0.46
VS-209	Tank Scrubber	VOC	0.13	0.46
VS-212	Vent Scrubber	VOC	0.01	0.01
VS-216	Marine Loading Flare	VOC	2.62	1.11
		NOx	0.43	0.18
		СО	3.07	1.30
				1

		SO2	0.01	0.01
VS-315	Polymer Tanks	VOC	190.00	1.05
VS-317	Vent Scrubber	VOC	1.12	4.93
		Methyl Acetate	0.01	0.02
VS-318	Vent Scrubber	VOC	0.29	1.24
		Methyl Acetate	4.51	19.76
VS-319	Vent Scrubber	VOC	0.10	0.39
		Methyl Acetate	0.04	0.15
VS-320	Vent Scrubber	VOC	0.40	0.8
		Methyl Acetate	0.02	0.10
VS-329	Fluidizing Blower Vent	VOC	85.82	18.53
	Vent	PM10	0.01	0.01
		Methyl Acetate	65.77	14.13
VS-331	Hopper Car Blower Vent	VOC	36.77	41.1
	Vent	PM10	0.01	0.01
		Methyl Acetate	0.01	0.01
VS-332	Hopper Car Blower Vent	VOC	4.18	2.57
	Vent	PM10	0.01	0.01
		Methyl Acetate	0.39	0.24
VS-336	C and W Tank	VOC	5.71	1.15
		Methyl Acetate	9.21	1.29
VS-340	Tank	VOC	11.80	0.52
VS-341	Tank	VOC	3.40	1.28
		Methyl Acetate	0.13	0.05
VS-342	Catalyst Day Tank	VOC	30.06	0.21

VS-343	Storage Tank	voc	8.45	0.36
VS-344	Storage Tank	VOC	5.92	0.28
VS-362	Fluidizing Blower Vent	voc	85.82	18.53
	Vent	PM10	0.01	0.01
		Methyl Acetate	65.77	14.13
VS-365	Storage Tank	VOC	8.45	0.22
VS-366	Wastewater Tank	VOC	2.82	0.03
		Methyl Acetate	1.69	0.01
VS-367	Storage Tank	VOC	0.81	3.56
VS-368	Seal Flush Pot Vent	VOC	0.17	0.01
VS-369	Condensate Receiver	VOC	0.30	0.01
	Receiver	Methyl Acetate	3.20	0.10
VS-371	Condensate Receiver	VOC	0.15	0.10
VS-372	Dry Products Dust Collector	PM10	0.01	0.03
VS-373	Process Tank	VOC	6.87	0.14
VS-374	Process Tank	VOC	7.60	0.01
VS-375	Process Tank	VOC	0.23	0.10
VS-376	Dry Products Scrubber	VOC	0.34	0.21
	Scrubber	Methyl Acetate	0.26	0.15
VS-380	North Cooling Tower	VOC	0.01	0.01
VS-381	South Cooling Tower	voc	0.11	0.48
VS-382	WW Holding Pond	voc	0.01	0.01
VS-384	Million Gallon Head Tank	VOC	0.01	0.01
VS-400	Fugitives (4)	VOC	9.21	40.33
		Methyl Acetate	1.13	4.96

VS-202 (MSS)	'A' Plant Flare MSS Emissions	voc	170.64	4.62
	EIIIISSIOIIS	Methyl Acetate	3.00	0.01
		со	169.00	18.60
		NO _X	33.20	3.70
		SO ₂	0.05	0.22
VS-203 (MSS)	'B' Plant Flare MSS Emissions	voc	1.52	0.05
	Emissions	Methyl Acetate	0.28	0.01
		СО	0.44	0.01
		NOx	0.09	0.01
		SO ₂	0.01	0.01
VS-204 (MSS)	'B' Plant Tank Farm Scrubber	voc	8.12	0.28
	Scrubber	Methyl Acetate	6.60	0.24
VS-317 (MSS)	PK Scrubber Vent	voc	25.26	0.70
		Methyl Acetate	0.05	0.01
VS-318 (MSS)	AK Scrubber Vent	voc	28.63	1.20
		Methyl Acetate	15.00	1.20
VS-319 (MSS)	Methyl Acetate Column Scrubber	voc	0.34	0.01
	Vent	Methyl Acetate	3.00	0.13
VS-320 (MSS)	WED & Drying Column Scrubber	voc	5.94	0.07
	Vent	Methyl Acetate	0.02	0.01
VS-368 (MSS)	Methanol Seal Flush Pot Vent	voc	2.10	0.01
VS-373 (MSS)	Vazo Mix Tank Vent	voc	10.00	0.01
		Methyl Acetate	0.10	0.01
VS-375 (MSS)	Citric Acid Mix Tank Vent	voc	0.50	0.01
VS-382 (MSS)	Waste Holding Pond Vent Scrubber	VOC	1.01	0.02

	Methyl Acetate	0.10	0.01
B Plant Polymer Tank and Acid Conc. Column Vent	voc	1.33	0.05
	Methyl Acetate	0.10	0.01
A Plant Line Opening	voc	15.92	0.87
	Methyl Acetate	0.04	0.01
Plant Process Equipment Depressurization	voc	31.41	0.26
	Methyl Acetate	1.00	0.01
Reactor Purge Vacuum Truck	voc	3.50	0.09
B Plant Process Depressurization	voc	41.66	0.11
	Methyl Acetate	15.00	0.03
	PM ₁₀	0.02	0.01
B Plant Line Opening	voc	13.97	0.67
	Methyl Acetate	3.40	0.20
Tank Farm Vessel Opening	voc	52.74	0.41
	Methyl Acetate	31.00	0.10
Tank Farm Line Opening	VOC	29.53	1.72
	Methyl Acetate	6.20	0.40
	Tank and Acid Conc. Column Vent A Plant Line Opening Plant Process Equipment Depressurization Reactor Purge Vacuum Truck B Plant Process Depressurization B Plant Line Opening Tank Farm Vessel Opening Tank Farm Line	B Plant Polymer Tank and Acid Conc. Column Vent A Plant Line Opening Plant Process Equipment Depressurization Reactor Purge Voc Methyl Acetate VOC Methyl Acetate VOC Methyl Acetate VOC Methyl Acetate Plant Process Equipment Depressurization Reactor Purge Vacuum Truck B Plant Process Depressurization WOC Methyl Acetate PM10 B Plant Line Opening VOC Methyl Acetate VOC Methyl Acetate Tank Farm Vessel Opening VOC Methyl Acetate VOC	B Plant Polymer Tank and Acid Conc. Column Vent

(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) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1

 NO_x - total oxides of nitrogen

- sulfur dioxide SO_2

 PM_{10} - total particulate matter equal to or less than 10 microns in diameter, including PM_{2.5}, as

represented

- carbon monoxide CO

(4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.

(5) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.

Date: September 13, 2013

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Emission Sources - Maximum Allowable Emission Rates