

Emission Sources - Maximum Allowable Emission Rates

Permit Number 40782

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. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
WTP	Wastewater Treatment Plant (8) (9)	VOC	596.55	52.11
		Non-VOC	67.20	1.96
		CO	1.52	3.32
		NO _x	3.78	7.86
		SO ₂	0.06	0.01
		PM	0.14	0.30
		PM ₁₀	0.14	0.30
		PM _{2.5}	0.14	0.30
		Ammonia	1.04	4.57
TK4101	2nd Step Aeration Basin 1	VOC	51.82	
		Non-VOC	4.29	
		Ammonia	0.07	
TK4102	2nd Step Aeration Basin 2	VOC	51.82	
		Non-VOC	4.29	
		Ammonia	0.07	
TK4103	2nd Step Aeration Basin 3	VOC	51.82	
		Non-VOC	4.29	
		Ammonia	0.07	
TK4104	2nd Step Aeration Basin 4	VOC	51.82	
		Non-VOC	4.29	
		Ammonia	0.07	
TK4105	2nd Step Aeration Basin 5	VOC	51.82	
		Non-VOC	4.29	
		Ammonia	0.07	

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CLRIFIER1	Clarifier 1	VOC	0.09	
		Non-VOC	<0.01	
		Ammonia	<0.01	
CLRIFIER2	Clarifier 2	VOC	0.09	
		Non-VOC	0.01	
		Ammonia	0.08	
CLRIFIER3	Clarifier 3	VOC	0.09	
		Non-VOC	0.01	
		Ammonia	<0.01	
CLRIFIER4	Clarifier 4	VOC	7.35	
		Non-VOC	2.55	
		Ammonia	0.03	
CLRIFIER5	Clarifier 5	VOC	7.35	
		Non-VOC	2.55	
		Ammonia	0.03	
CLRIFIER6	Clarifier 6	VOC	7.35	
		Non-VOC	2.55	
		Ammonia	0.03	
CLRIFIER7	Clarifier 7	VOC	15.51	0.80
		Non-VOC	2.61	0.12
		Ammonia	0.05	
CHLORINSP	Chlorine Sump	VOC	0.17	
		Non-VOC	0.03	
		Ammonia	<0.01	
CHLORINETK	Pond 9 Chlorine Contact Basin (formerly Chlorine Contact Tank)	VOC	2.24	
		Non-VOC	0.40	
		Ammonia	<0.01	
		Chlorine	<0.01	<0.01
		Hypochlorite	0.04	0.18

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POND2	Pond No. 2	VOC	0.34	
		Non-VOC	<0.01	
		Ammonia	<0.01	
POND3	Pond No. 3	VOC	<0.01	
		Non-VOC	<0.01	
		Ammonia	<0.01	
POND4	Pond No. 4	VOC	17.16	
		Non-VOC	0.85	
		Ammonia	<0.01	
POND5	Pond No. 5	VOC	36.81	
		Non-VOC	3.41	
		Ammonia	<0.01	
POND6	Pond No. 6	VOC	36.77	
		Non-VOC	3.40	
		Ammonia	0.17	
POND7	Pond No. 7	VOC	73.53	
		Non-VOC	13.17	
		Ammonia	0.16	
POND8	Pond No. 8	VOC	46.30	
		Non-VOC	5.95	
		Ammonia	<0.01	
POND9	Pond No. 9	VOC	49.52	
		Non-VOC	8.52	
		Ammonia	0.11	
SPLITRBX	Splitter Box	VOC	2.65	
		Non-VOC	0.29	
		Ammonia	<0.01	
COOLTWER	Sludge Cooling Unit (Cooling Tower)	VOC	1.88	1.42
		Non-VOC	0.32	<0.01

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		Ammonia	<0.01	0.01
		PM	1.09	4.79
		PM ₁₀	0.31	1.36
		PM _{2.5}	0.31	1.36
BLCHTK1	Bleach Tank 1 (T-511)	Chlorine	<0.01	<0.01
		Hypochlorite	0.03	0.11
BLCHTK2	Bleach Tank 2 (T-512)	Chlorine	<0.01	<0.01
		Hypochlorite	0.03	0.11
BLCHTK3	Bleach Tank 3 (T-513)	Chlorine	<0.01	<0.01
		Hypochlorite	0.03	0.11
BLCHTK4	Bleach Tank 4 (T9301)	Chlorine	0.02	<0.01
		Hypochlorite	4.14	0.11
BLCHTK5	Bleach Tank 5 (T9302)	Chlorine	0.02	<0.01
		Hypochlorite	4.14	0.11
NH4OHTK2	Phosphoric Acid Tank	PM	<0.01	<0.01
		PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
NH4OHTK3	Ammonium Hydroxide Storage Tank with Water Scrubber	Ammonia	0.14	
CHANNEL	Clean Stream	VOC	<0.01	
		non-VOC	<0.01	
		Ammonia	0.05	
BPBASN601	B-Plant Basin No. 601	VOC	0.60	
		Non-VOC	0.05	
		Ammonia	<0.01	
BPBASN602	B-Plant Basin No. 602	VOC	0.60	
		Non-VOC	0.05	
		Ammonia	<0.01	
BPBASN603	B-Plant Basin No. 603	VOC	0.60	
		Non-VOC	0.05	

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		Ammonia	<0.01	
BPBASN604	B-Plant Basin No. 604	VOC	0.60	
		Non-VOC	0.05	
		Ammonia	<0.01	
BPBASN605	B-Plant Basin No. 605	VOC	0.60	
		Non-VOC	0.05	
		Ammonia	<0.01	
BPBASN606	B-Plant Basin No. 606	VOC	0.60	
		Non-VOC	0.05	
		Ammonia	<0.01	
A-PLANT	A-Plant	VOC	<0.01	
BPRESS810	Belt Press No. 810 (7)	VOC	1.25	
		Non-VOC	<0.01	
		Ammonia	<0.01	
BPRESS820	Belt Press No. 820 (7)	VOC	1.25	
		Non-VOC	<0.01	
		Ammonia	<0.01	
BPRESS830	Belt Press No. 830 (7)	VOC	1.25	
		Non-VOC	<0.01	
		Ammonia	<0.01	
BPRESS840	Belt Press No. 840 (7)	VOC	1.25	
		Non-VOC	<0.01	
		Ammonia	<0.01	
TO2601	Thermal Oxidizer (RTO) (5) (6)	VOC	40.57	
		Non-VOC	1.27	
		CO	0.76	
		NOx (fuel)	0.90	
		NOx (waste)	1.98	
		SO ₂	<0.01	

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		PM	0.07	
		PM ₁₀	0.07	
		PM _{2.5}	0.07	
		Ammonia	0.15	
TO2602	Thermal Oxidizer (RTO) (5) (6)	VOC	40.57	
		Non-VOC	1.27	
		CO	0.76	
		NOx (fuel)	0.90	
		NOx (waste)	1.98	
		SO ₂	<0.01	
		PM	0.07	
		PM ₁₀	0.07	
		PM _{2.5}	0.07	
		Ammonia	0.15	
SMCHNL	Small Channel	VOC	0.34	
		Non-VOC	<0.01	
		Ammonia	<0.01	
BPCLCONT	B-Plant Contact Sump	VOC	0.09	
		Non-VOC	0.01	
		Ammonia	<0.01	
FINALDCHNL	Final D Channel	VOC	1.65	0.08
		Non-VOC	0.16	0.01
		Ammonia	<0.01	

(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
Non-VOC - Acetone, chlorodifluoromethane, hydrocyanic acid, methyl acetate, methylene chloride, tetrachloroethylene and 1,1,1-trichloroethane

NO_x - total oxides of nitrogen

CO - carbon monoxide

SO₂ - sulfur dioxide

PM - total particulate matter, suspended in the atmosphere, including PM₁₀ and PM_{2.5}, as represented

PM₁₀ - total particulate matter equal to or less than 10 microns in diameter, including PM_{2.5}, as represented

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PM_{2.5} - particulate matter equal to or less than 2.5 microns in diameter

- (4) Compliance with annual emission limits (tons per year) is based on a 12-month rolling period.
- (5) Emissions from the 1st Step Aeration Basins (FINS T-2001, T-2002, T-2003, T-2004, and T-2005) are routed to the RTO.
- (6) Both RTOs may operate simultaneously.
- (7) Belt Press emissions include emissions from truck loading of sludge.
- (8) Non-listed annual emissions of any pollutants for any EPNs are included in the annual emission of EPN WTP.
- (9) Emissions from the Decant Sump and Filtrate Sump are included in totals for EPN WTP

Date: February 28, 2020