

University of North Carolina at Chapel Hill

Chapel Hill, North Carolina

Orange County

Facility ID # 680043

Permit # 03069T25

2009 Annual Emissions Inventory

Facility Summary

Pollutant	Units	Boiler #6			Boiler #6	Boiler #7			Boiler #7	Boiler #8		Boiler #8	Railcar Dump Pits	Coal Storage Silos	Sorbet Railcar Dump Pit	Ash Silo w/ Loadout	Coal Conveyor & Crusher Building	Fuel Oil Storage Tanks	Two Blackstart Generators	Total
		Natural Gas	Fuel Oil	Coal	Total	Natural Gas	Fuel Oil	Coal	Total	Natural Gas	Fuel Oil	Total								
<b>Criteria</b>																				
PM	tpy	0.15	0.000	5.78	5.93	0.14	4.69E-06	5.46	5.61	0.084	0.02	0.100	6.91E-03	0.0048	1.31E-02	1.72	0.75	0.02	14.1	
PM-10	tpy	0.15	0.000	5.78	5.93	0.14	4.69E-06	5.46	5.61	0.084	0.0047	0.089	3.27E-03	0.0048	6.20E-03	1.72	0.75	0.02	14.1	
PM-2.5	tpy	0.15	0.0000	3.33	3.48	0.14	1.17E-06	3.15	3.29	0.084	0.0012	0.086	1.03E-03	0.0045	1.95E-03	1.63	0.71	0.02	9.2	
NOx	tpy	6.64	0.00	217.47	224.11	6.67	1.68E-04	218.79	225.46	6.68	0.04	0.685						0.42	450.7	
VOC	tpy	0.11	0.00	0.31	0.43	0.10	7.10E-07	0.29	0.40	0.061	0.0009	0.062					0.22	0.02	1.1	
CO	tpy	1.70	0.00	23.30	25.00	1.59	1.78E-05	21.84	23.43	0.933	0.02	0.956						0.19	49.6	
SO2	tpy	0.00	0.00	129.07	129.07	0.00	8.84E-05	114.93	114.93	0.007	0.11	0.121						0.02	244.1	
<b>Greenhouse Gases</b>																				
CO2	tpy	2,439.31	0.17	143,686.18	146,125.67	2,281.41	0.08	134,711.83	136,993.32	1,337.11	105.43	1,442.54						36.78	284,598.30	
Methane	tpy	0.046	0.00	0.3	0.31	0.043	0.00	0.24	0.29	0.025	0.00	0.029						0.00	0.6	
Nitrous Oxide	tpy	0.005	0.00	2.4	2.41	0.004	0.00	2.26	2.26	0.003	0.00	0.003							4.7	
<b>HAPs/TAPs</b>																				
1,3 Butadiene	lb/yr				0				0			0								0.0
2,3,7,8-TCDD	lb/yr			7.69E-07	7.69E-07			7.27E-07	7.27E-07			0								0.0
2,4-Dinitrotoluene	lb/yr			1.51E-02	1.51E-02			0.01	0.01			0								0.0
2-Chloroacetophenone	lb/yr			0.38	0.38			0.36	0.35584185			0								0.7
Acetaldehyde	lb/yr			30.64	30.64			28.98	28.98			0							0.01	59.6
Acetic Acid	lb/yr				0				0			0								0.0
Acetophenone	lb/yr			0.81	0.81			0.76	0.76			0								1.6
Acrolein	lb/yr			15.59	15.59			14.74	14.74			0							3.51E-03	30.3
Antimony	lb/yr		0.00E+00	0.44	0.44			0.00E+00	0.41	0.41		0								0.9
Arsenic	lb/yr	0.01	8.51E-08	0.41	0.42	7.58E-03		3.98E-08	0.39	0.39	0.004	5.22E-03	0.010							0.8
Benzene	lb/yr	0.1	4.18E-05	69.88	69.96	7.96E-02		1.95E-05	66.08	66.16	0.047	2.56E-02	0.072						0.35	136.5
Benzo(a)pyrene	lb/yr			2.04E-03	2.04E-03			0.00	1.93E-03			0								0.0
Benzyl Chloride	lb/yr			37.63	37.62731			35.58	35.58			0								73.2
Beryllium	lb/yr		6.38E-08	0.07	0.07			2.98E-08	0.07	0.07		3.91E-03	3.91E-03							0.1
Biphenyl	lb/yr			9.14E-02	0.09			8.64E-02	0.09			0								0.2
Bis(2-ethylhexyl)phthalate (DEHP)	lb/yr			3.92	3.92			3.71	3.71			0								7.6
Bromine	lb/yr			11.20	11.20			10.50	10.50			0								21.7
Bromoform	lb/yr			2.10	2.10			1.98	1.98			0								4.1
Cadmium	lb/yr	0.04	6.38E-08	1.90E-01	0.23	4.17E-02		2.98E-08	1.78E-01	0.22	0.024	3.91E-03	0.028							0.5
Carbon Disulfide	lb/yr			6.99	6.99			6.61	6.61			0								13.6
Chlorine	lb/yr			147.56	147.56			138.32	138.32			0								285.9
Chlorobenzene	lb/yr			1.18	1.18			1.12	1.12			0								2.3
Chloroform	lb/yr			3.17	3.17			3.00	3.00			0								6.2
Chromium	lb/yr	0.06	6.38E-08	6.56	6.61	5.31E-02		2.98E-08	6.15	6.20	0.031	3.91E-03	0.035							12.9
Chromium VI	lb/yr	0.06	1.87E-08	0.01	0.07	5.31E-02		8.75E-09	0.01	0.07	0.031	1.15E-03	0.032							0.2
Cobalt	lb/yr		0.00E+00	3.77E-01	3.77E-01			0.00E+00	3.53E-01	3.53E-01		0								0.7
Cumene	lb/yr			0.28	0.28			0.27	0.27			0								0.6
Cyanide	lb/yr			134.38	134.38			127.09	127.09			0								261.5
Dibenzofurans	lb/yr			1.08E-02	0.01			1.02E-02	0.01			0								0.0
Dichlorobenzene	lb/yr	0.05		0.048626388	4.55E-02			4.55E-02	0.027	0.027		0.027								0.1
Dimethyl Sulfate	lb/yr			2.58	2.58			2.44	2.44			0								5.0
Ethyl Benzene	lb/yr		1.24E-05	5.05	5.05			5.80E-06	4.78	4.78		7.61E-03	7.61E-03							9.8
Ethyl Chloride	lb/yr			2.26	2.26			2.14	2.14			0								4.4
Ethylene Dibromide	lb/yr			6.45E-02	0.06			6.10E-02	0.06			0								0.1
Ethylene Dichloride	lb/yr			2.15	2.15			2.03	2.03			0								4.2
Ethylene Glycol	lb/yr				0				0			0								0.0
Ethylene Oxide	lb/yr				0				0			0								0.0
Flouride	lb/yr		0.00		0.00			2.65E-04	0.00	0.00		3.47E-01	3.47E-01							0.3
Formaldehyde	lb/yr	3.04	0.00	89.90	92.94	2.84E+00		3.41E-04	84.27	87.11	1.666	4.47E-01	2.113						0.04	182.2
Glycol Ethers	lb/yr				0				0			0								0.0
Hexane	lb/yr	72.94		3.60	76.54	6.82E+01		3.41	71.62	39.982		39.982								188.1
Hydrogen Chloride	lb/yr			17,488.66	17,488.66			16,393.29	16,393.29			0								33881.9
Hydrogen Fluoride	lb/yr			314.25	314.25			294.57	294.57			0								608.8
Isothorone	lb/yr			31.18	31.18			29.48	29.48			0								60.7
Lead	lb/yr	0.02	1.92E-07	2.40	2.42	1.89E-02		8.95E-08	2.25	2.27	0.011	1.17E-02	0.023							4.7
Manganese	lb/yr	0.02	1.28E-07	16.40	16.41	1.44E-02		5.96E-08	15.37	15.38	0.008	7.83E-03	0.016							31.8
Mercury	lb/yr	0.01	6.38E-06	1.14	1.15	9.85E-03		2.98E-06	1.07	1.08	0.006	3.91E-03	0.010							2.2
Methyl Chloride	lb/yr			28.49	28.49			26.94	26.94			0								55.4
Methyl Ethyl Ketone	lb/yr			20.96	20.96			19.83	19.83			0								40.8
Methyl Bromide	lb/yr			8.60	8.60			8.13	8.13			0								16.7
Methyl Chloroform	lb/yr		3.59E-06		3.59E-06			1.68E-06				2.20E-03	2.20E-03							0.0
Methyl Hydrazine	lb/yr			9.14	9.14			8.64	8.64			0								17.8
Methyl Methacrylate	lb/yr			1.08	1.08			1.02	1.02			0								2.1
Methyl Tert Butyl Ether	lb/yr			1.88	1.88			1.78	1.78			0								3.7
Methylene Chloride	lb/yr			15.59	15.59			14.74	14.74			0								30.3
Naphthalene	lb/yr	0.02	5.06E-08	0.70	0.72	2.31E-02		2.36E-06	0.66	0.68	0.014	3.10E-03	0.017						0.058	1.5
Nickel	lb/yr	0.09	6.38E-08	13.35	13.43	7.96E-02		2.98E-08	12.51	12.59	0.047	3.91E-03	0.051							26.1
PAH	lb/yr				0				0			0								0.0
Phenol	lb/yr			0.86	0.86			0.81	0.81			0								1.7
Phosphorus	lb/yr			1.99	1.99			1.87	1.87</											