

University of North Carolina at Chapel Hill

Chapel Hill, North Carolina

Orange County

Facility ID # 6800043

Permit # 03069T31

Cogeneration Facility Only-2013 Annual Emissions Inventory

Pollutant	Units	Boiler #6				Boiler #6 Total	Boiler #7				Boiler #7 Total	Boiler #8		Boiler #8 Total	Railcar Dump Pits	Coal Storage Silos	Coal Silo Conveyors	Sorbet Railcar Dump Pit	Ash Silo w/ Loadout	Coal Conveyor & Crusher Building	Blackstart Generators G1 & G2	Fuel Oil Storage Tanks Cogen	Total
		Natural Gas	Fuel Oil	Wood	Coal		Natural Gas	Fuel Oil	Wood	Coal		Natural Gas	Fuel Oil										
Criteria Pollutants																							
PM	tpy	0.63	0.00E+00	0.00E+00	3.98	4.61	0.77	0.00E+00		3.86	4.63	0.121	9.90E-05	0.121	5.05E-03	0.0035	0.0035	1.46E-02	1.43	0.52	0.02		11.4
PM-10	tpy	0.63	0.00E+00	0.00E+00	3.98	4.61	0.77	0.00E+00		3.86	4.63	0.121	3.00E-05	0.121	2.39E-03	0.0035	0.0035	6.89E-03	1.43	0.52	0.02		11.3
PM-2.5	tpy	0.63	0.00E+00	0.00E+00	2.29	2.93	0.77	0.00E+00		2.22	3.00	0.121	7.50E-06	0.121	7.50E-04	0.0033	0.0033	2.16E-03	1.36	0.49	0.02		7.9
NOx	tpy	26.85	0.00E+00	0.00E+00	147.39	174.24	35.76	0.00E+00		155.40	191.16	1.213	3.09E-04	1.213							0.40		367.0
VOC	tpy	0.46	0.00E+00	0.00E+00	0.22	0.67	0.56	0.00E+00		0.21	0.77	0.087	6.00E-06	0.087							0.02	0.214	1.8
CO	tpy	6.99	0.00E+00	0.00E+00	16.04	23.03	8.53	0.00E+00		15.47	24.00	1.334	1.50E-04	1.334							0.05		48.4
SO2	tpy	0.00	0.00E+00		94.54	94.54	0.00	0.00E+00		94.18	94.18	0.010	7.35E-04	0.010							0.02		188.7
Greenhouse Gases																							
CO2	tpy	11,529	0.00	0.00	111,263	122,793	13,628	0.00E+00		104,125	117,753	1,848	1	1,849							34.24		24248.6
Methane	tpy	0.19	0.00E+00	0.00E+00	0.2	0.37	0.23	0.00E+00		0.17	0.40	0.036	2.76E-05	0.036							0.0014		0.8
Nitrous Oxide	tpy	0.02	0.00E+00	0.00E+00	1.7	1.68	0.02	0.00E+00		1.60	1.62	0.004	5.52E-06	0.004							0.0003		3.3
HAPs/TAPs																							
1,3 Butadiene	lb/yr				0							0		0									0.00E+00
2,3,7,8-TCDD	lb/yr			0.00E+00	5.28E-07	5.28E-07				5.12E-07	5.12E-07			0									1.04E-06
2,4-Dinitrotoluene	lb/yr				1.03E-02	1.03E-02				0.01	0.01			0									2.04E-02
2-Chloroacetophenone	lb/yr				0.26	0.26				0.25	0.2507757			0									5.09E-01
Acetaldehyde	lb/yr			0.00E+00	21.06	21.06				20.42	20.42			0							0.011		4.15E+01
Acetic Acid	lb/yr				0					0				0									0.00E+00
Acetophenone	lb/yr			0.00E+00	0.55	0.55				0.54	0.54			0									1.09E+00
Acrolein	lb/yr			0.00E+00	10.72	10.72				10.39	10.39			0							0.0033		2.11E+01
Antimony	lb/yr		0.00E+00	0.00E+00	0.30	0.30		0.00E+00		0.29	0.29			0									5.97E-01
Arsenic	lb/yr	0.03	0.00E+00	0.00E+00	0.28	0.32	4.06E-02	0.00E+00		0.27	0.31	0.006	3.36E-05	0.006							0.0017		6.38E-01
Benzene	lb/yr	0.3	0.00E+00	0.00E+00	48.04	48.39	4.27E-01	0.00E+00		46.57	47.00	0.067	1.65E-04	0.067							0.33		9.58E+01
Benzo(a)pyrene	lb/yr			0.00E+00	1.40E-03	1.40E-03				0.00	1.36E-03			0							0.0011		2.87E-03
Benzyl Chloride	lb/yr				25.87	25.86654				25.08	25.08			0									5.09E+01
Beryllium	lb/yr		0.00E+00	0.00E+00	0.05	0.05		0.00E+00		0.05	0.05			2.52E-05	2.52E-05						0.00126		9.89E-02
Biphenyl	lb/yr				6.28E-02	0.06				6.09E-02	0.06			0									1.24E-01
Bis(2-ethylhexyl)phthalate (DEHP)	lb/yr				2.70	2.70				2.62	2.62			0									5.31E+00
Bromine	lb/yr				7.71	7.71				7.44	7.44			0									1.52E+01
Bromoform	lb/yr				1.44	1.44				1.40	1.40			0									2.84E+00
Cadmium	lb/yr	0.18	0.00E+00	0.00E+00	1.31E-01	0.31	2.24E-01	0.00E+00		1.24E-01	0.35	0.035	2.52E-05	0.035							0.00126		7.00E-01
Carbon Disulfide	lb/yr				4.80	4.80				4.66	4.66			0									9.46E+00
Chlorine	lb/yr			0.00E+00	101.61	101.61				97.98	97.98			0									2.00E+02
Chlorobenzene	lb/yr			0.00E+00	0.81	0.81				0.79	0.79			0									1.60E+00
Chloroform	lb/yr			0.00E+00	2.18	2.18				2.11	2.11			0									4.29E+00
Chromium	lb/yr	0.23	0.00E+00	0.00E+00	4.52	4.75	2.84E-01	0.00E+00		4.35	4.64	0.044	2.52E-05	0.044							0.00126		9.43E+00
Chromium VI	lb/yr	0.23	0.00E+00	0.00E+00	0.01	0.24	2.84E-01	0.00E+00		0.01	0.29	0.044	7.40E-06	0.044									5.80E-01
Cobalt	lb/yr		0.00E+00	0.00E+00	0.26	0.26		0.00E+00		0.25	0.25			0									5.10E-01
Cumene	lb/yr				0.20	0.20				0.19	0.19			0									3.86E-01
Cyanide	lb/yr				92.38	92.38				89.56	89.56			0									1.82E+02
Dibenzofurans	lb/yr				7.43E-03	0.01				7.20E-03	0.01			0									1.46E-02
Dichlorobenzene	lb/yr	0.20			0.19967425	2.44E-01				2.44E-01	0.038		0.038										4.82E-01
Dimethyl Sulfate	lb/yr				1.77	1.77				1.72	1.72			0									3.49E+00
Ethyl Benzene	lb/yr		0.00E+00	0.00E+00	3.47	3.47		0.00E+00		3.37	3.37			4.90E-05	4.90E-05								6.84E+00
Ethyl Chloride	lb/yr				1.55	1.55				1.50	1.50			0									3.06E+00
Ethylene Dibromide	lb/yr				4.43E-02	0.04				4.30E-02	0.04			0									8.73E-02
Ethylene Dichloride	lb/yr		0.00E+00		1.48	1.48				1.43	1.43			0									2.91E+00
Ethylene Glycol	lb/yr				0					0				0									0.00E+00
Ethylene Oxide	lb/yr				0					0				0									0.00E+00
Flouride	lb/yr		0.00E+00		0.00	0.00		0.00E+00		0.00	0.00			2.24E-03	2.24E-03								2.24E-03
Formaldehyde	lb/yr	12.48	0.00E+00	0.00E+00	61.90	74.38	1.52E+01	0.00E+00		59.70	74.94	2.382	2.88E-03	2.385							0.033		1.52E+02
Glycol Ethers	lb/yr				0	0				0	0			0									0.00E+00
Hexane	lb/yr	299.51			2.48	301.99	3.66E+02			2.40	368.17	57.171		57.171									7.27E+02
Hydrogen Chloride	lb/yr			0.00E+00	12,042.28	12,042.28				11612.61	11612.61			0									2.37E+04
Hydrogen Fluoride	lb/yr				216.38	216.38				208.66	208.66			0									4.52E+02
Isophorone	lb/yr				21.43	21.43				20.78	20.78			0									4.22E+01
Lead	lb/yr	0.08	0.00E+00	0.00E+00	1.66	1.74	1.02E-01	0.00E+00		1.60	1.70	0.016	7.56E-05	0.016							0.0038		3.46E+00
Manganese	lb/yr	0.06	0.00E+00	0.00E+00	11.29	11.35	7.72E-02	0.00E+00		10.89	10.96	0.012	5.04E-05	0.012							0.0025		2.23E+01
Mercury	lb/yr	0.04	0.00E+00	0.00E+00	0.79	0.83	5.28E-02	0.00E+00		0.76	0.81	0.008	2.52E-05	0.008							0.00126		1.65E+00
Methyl Chloride	lb/yr				19.58	19.58				18.99	18.99			0									3.86E+01
Methyl Ethyl Ketone	lb/yr				14.41	14.41				13.97	13.97			0									2.84E+01
Methyl Bromide	lb/yr				5.91	5.91				5.73	5.73			0									