

University of North Carolina at Chapel Hill

Chapel Hill, North Carolina

Orange County

Facility ID # 6800043

Permit # 03069T31

Cogeneneration Facility Only-2012 Annual Emissions Inventory

Pollutant	Units	Boiler #6				Boiler #6	Boiler #7				Boiler #7	Boiler #8		Boiler #8	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		Total	Natural Gas	Fuel Oil	Wood		Coal	Total										
Criteria Pollutants																							
PM	tpy	0.72	0.00E+00	1.09E-04	3.76	4.49	0.68	0.00E+00		3.61	4.29	0.364	0.00E+00	0.364	4.45E-03	0.0031	0.0031	9.44E-03	0.92	0.48	0.02		10.6
PM-10	tpy	0.72	0.00E+00	9.87E-05	3.76	4.49	0.68	0.00E+00		3.61	4.29	0.364	0.00E+00	0.364	2.10E-03	0.0031	0.0031	4.46E-03	0.92	0.48	0.02		10.6
PM-2.5	tpy	0.72	0.00E+00	8.56E-05	2.17	2.89	0.68	0.00E+00		2.08	2.76	0.364	0.00E+00	0.364	6.61E-04	0.0029	0.0029	1.40E-03	0.87	0.45	0.02		7.4
NOx	tpy	34.41	0.00E+00	4.61E-02	156.52	190.98	34.60	0.00E+00		158.90	193.50	3.654	0.00E+00	3.654									388.5
VOC	tpy	0.52	0.00E+00	2.23E-03	0.20	0.73	0.49	0.00E+00		0.20	0.69	0.263	0.00E+00	0.263								0.214	1.9
CO	tpy	7.98	0.00E+00	2.23E-02	15.18	23.18	7.56	0.00E+00		14.51	22.07	4.018	0.00E+00	4.018								0.05	49.3
SO2	tpy	0.00	0.00E+00		81.01	81.01	0.00	0.00E+00		78.18	78.18	0.029	0.00E+00	0.029								0.02	159.2
Greenhouse Gases																							
CO2	tpy	12,776	0.00	30.25	102,356	115,162	11,904	0.00E+00		96,291	108,195	5,571	0	5,571							32.36		22860.0
Methane	tpy	0.22	0.00E+00	9.23E-03	0.2	0.39	0.20	0.00E+00		0.16	0.37	0.109	0.00E+00	0.109							0.0013		0.9
Nitrous Oxide	tpy	0.02	0.00E+00	1.21E-03	1.6	1.59	0.02	0.00E+00		1.50	1.52	0.011	0.00E+00	0.011							0.0003		3.1
HAPs/TAPs																							
1,3 Butadiene	lb/yr					0					0			0									0.00E+00
2,3,7,8-TCDD	lb/yr			2.25E-09	4.89E-07	4.91E-07				4.68E-07	4.68E-07			0									9.59E-07
2,4-Dinitrotoluene	lb/yr				9.57E-03	9.57E-03				0.01	0.01			0									1.87E-02
2-Chloroacetophenone	lb/yr				0.24	0.24				0.23	0.2291583			0									4.68E-01
Acetaldehyde	lb/yr			2.17E-01	19.48	19.69				18.66	18.66			0							0.010		3.84E+01
Acetic Acid	lb/yr					0					0			0									0.00E+00
Acetophenone	lb/yr			8.38E-07	0.51	0.51				0.49	0.49			0									1.00E+00
Acrolein	lb/yr			1.05E+00	9.91	10.96				9.49	9.49			0							0.0031		2.05E+01
Antimony	lb/yr		0.00E+00	8.28E-06	0.29	0.29		0.00E+00		0.27	0.27			0									5.62E-01
Arsenic	lb/yr	0.04	0.00E+00	2.30E-05	0.27	0.31	3.60E-02	0.00E+00		0.26	0.29	0.019	0.00E+00	0.019								0.0016	6.19E+01
Benzene	lb/yr	0.4	0.00E+00	1.10E+00	44.42	45.92	3.78E-01	0.00E+00		42.56	42.94	0.201	0.00E+00	0.201								0.31	8.94E+01
Benzo(a)pyrene	lb/yr			6.81E-04	1.30E-03	1.98E-03				0.00	1.24E-03			0								0.00010	3.33E-03
Benzyl Chloride	lb/yr				23.92	23.91732				22.92	22.92			0									4.68E+01
Beryllium	lb/yr		0.00E+00	1.15E-06	0.05	0.05		0.00E+00		0.04	0.04		0.00E+00	0.00E+00							0.00119		9.31E-02
Biphenyl	lb/yr				5.81E-02	0.06				5.57E-02	0.06			0									1.14E-01
Bis(2-ethylhexyl)phthalate (DEHP)	lb/yr				2.49	2.49				2.39	2.39			0									4.88E+00
Bromine	lb/yr				7.30	7.30				6.98	6.98			0									1.43E+01
Bromoform	lb/yr				1.33	1.33				1.28	1.28			0									2.61E+00
Cadmium	lb/yr	0.21	0.00E+00	4.30E-06	1.24E-01	0.33	1.98E-01	0.00E+00		1.18E-01	0.32	0.105	0.00E+00	0.105							0.00119		2.61E+00
Carbon Disulfide	lb/yr				4.44	4.44				4.26	4.26			0									7.55E+01
Chlorine	lb/yr			2.07E-01	96.13	96.34				91.93	91.93			0									8.70E+00
Chlorobenzene	lb/yr			8.64E-03	0.75	0.76				0.72	0.72			0									1.88E+02
Chloroform	lb/yr			7.33E-03	2.02	2.02				1.93	1.93			0									3.95E+00
Chromium	lb/yr	0.27	0.00E+00	1.83E-05	4.27	4.54	2.52E-01	0.00E+00		4.09	4.34	0.134	0.00E+00	0.134							0.00119		9.01E+00
Chromium VI	lb/yr	0.27	0.00E+00		0.01	0.27	2.52E-01	0.00E+00		0.01	0.26	0.134	0.00E+00	0.134									6.69E+01
Cobalt	lb/yr		0.00E+00	6.81E-06	0.25	0.25		0.00E+00		0.23	0.23			0									4.81E-01
Cumene	lb/yr				0.18	0.18				0.17	0.17			0									3.55E+01
Cyanide	lb/yr				85.42	85.42				81.84	81.84			0									1.67E+02
Dibenzofurans	lb/yr				6.87E-03	0.01				6.58E-03	0.01			0									1.34E-02
Dichlorobenzene	lb/yr	0.23			1.64	1.64	0.22802454	2.16E-01		1.57	1.57	0.115	0.115	0									5.59E+01
Dimethyl Sulfate	lb/yr				19.82	19.82				18.99	18.99			0									3.21E+00
Ethyl Benzene	lb/yr		0.00E+00	8.12E-03	3.21	3.22		0.00E+00		3.08	3.08		0.00E+00	0.00E+00									6.30E+00
Ethyl Chloride	lb/yr				1.44	1.44				1.37	1.37			0									2.81E+00
Ethylene Dibromide	lb/yr				4.10E-02	0.04				3.93E-02	0.04			0									8.03E-02
Ethylene Dichloride	lb/yr		7.60E-03	1.37	1.37					1.31	1.31			0									2.68E+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		0.00E+00			0.00		0.00E+00	0.00E+00									0.00E+00
Formaldehyde	lb/yr	14.25	0.00E+00	1.15E+00	58.57	73.97	1.35E+01	0.00E+00		56.01	69.51	7.175	0.00E+00	7.175							0.031		1.51E+02
Glycol Ethers	lb/yr					0					0			0									0.00E+00
Hexane	lb/yr	342.04			2.29	344.33	3.24E+02			2.19	326.16	172.204		172.204									8.43E+02
Hydrogen Chloride	lb/yr			1.60E+00	11,393.72	11,393.32				10895.68	10895.68			0									2.23E+04
Hydrogen Fluoride	lb/yr				204.73	204.73				195.78	195.78			0									4.01E+02
Isophorone	lb/yr				19.82	19.82				18.99	18.99			0									3.88E+01
Lead	lb/yr	0.10	0.00E+00	5.03E-05	1.57	1.66	9.00E-02	0.00E+00		1.50	1.59	0.048	0.00E+00	0.048							0.0036		3.30E+00
Manganese	lb/yr	0.07	0.00E+00	1.68E-03	10.68	10.76	6.84E-02	0.00E+00		10.21	10.28	0.036	0.00E+00	0.036								0.0024	2.11E+01
Mercury	lb/yr	0.05	0.00E+00	7.06E-05	0.75	0.79	4.68E-02	0.00E+00		0.71	0.76	0.025	0.00E+00	0.025							0.00119		1.58E+00
Methyl Chloride	lb/yr			6.02E-03	18.11	18.11				17.35	17.35			0									3.55E+01
Methyl Ethyl Ketone	lb/yr			1.41E-03	13.33	13.33				12.77	12.77			0									2.61E+01
Methyl Bromide	lb/yr				5.47	5.47				5.24	5.24			0									