University of North Carolina at Chapel Hill
Chapel Hill, North Carolina
Orange County
Facility ID # 6800043
Permit # 03069T35

2019 Annual Emissions Inventory **Facility Summary**

Pollutant	Units	Boiler #6				Boiler #6	Boiler #7				Boiler #7	Boiler #8		Boiler #8	Boiler #9		Boiler #9	Boiler #10		Boiler #10	Railcar Dump Pits	Coal Storage Silos	Coal Silo Conveyors	Sorbent Railcar Dump Pit	Ash Silo w/ Loadout	Coal Conveyor & Crusher Building	Blackstart Generators G1 & G2	Fuel Oil Storage Tanks Manning	Fuel Oil Storage Tanks Cogen	Total
		Natural Gas	Fuel Oil	Wood	Coal	Total	Natural Gas	Fuel Oil	Wood	Coal	Total	Natural Gas	Fuel Oil	Total	Natural Gas	Fuel Oil	Total	Natural Gas	Fuel Oil	Total										
Criteria Pollutants																														
PM	tpy	1.44	0.00E+00	0.00E+00	3.40	4.84	1.17	0.00E+00		2.64	3.81	0.223	0.00E+00	0.223	0.549	0.000	0.549	0.395	0.000	0.395	3.84E-03	0.0026	0.0026	1.06E-02	1.14	0.41	0.05			21.2
PM-10	tpy	1.44	0.00E+00	0.00E+00	3.40	4.84	1.17	0.00E+00		2.64	3.81	0.223	0.00E+00	0.223	0.549	0.000	0.549	0.395	0.000	0.395	1.81E-03	0.0026	0.0026	4.99E-03	1.14	0.41	0.05			21.2
PM-2.5	tpy	1.44	0.00E+00	0.00E+00	1.96	3.40	1.17	0.00E+00		1.52	2.69	0.223	0.00E+00	0.223	0.549	0.000	0.549	0.395	0.000	0.395	5.70E-04	0.0025	0.0025	1.57E-03	1.08	0.39	0.05			16.0
NOx	tpy	35.13	0.00E+00	0.00E+00	72.75	107.88	37.85	0.00E+00		75.11	112.96	1.631	0.00E+00	1.631	3.026	0.000	3.026	2.533	0.000	2.533							0.90			457
VOC	tpy	1.04	0.00E+00	0.00E+00	0.19	1.23	0.85	0.00E+00		0.14	0.99	0.161	0.00E+00	0.161	0.397	0.000	0.397	0.286	0.000	0.286							0.04	0.017	0.22	6.39
CO	tpy	15.91	0.00E+00	0.00E+00	13.72	29.62	12.91	0.00E+00		10.67	23.58	2.465	0.00E+00	2.465	6.068	0.000	6.068	4.367	0.000	4.367							0.12			132
SO2	tpy	0.00	0.00E+00		157.10	157.10	0.00	0.00E+00		118.05	118.05	0.018	0.00E+00	0.018	0.043	0.000	0.043	0.031	0.000	0.031							0.02			551
Greenhouse Gases																														
CO2	tpy	27,634	0.00	0.00	100,594	128,228	22,546	0.00E+00		78,652	101,198	1,505	0	1,505	10,346	0	10,346	7,573	0	7,573							77.40			497,778
Methane	tpy	0.43	0.00E+00	0.00E+00	9.8	10.18	0.35	0.00E+00		7.59	7.94	0.066	0.00E+00	0.066	0.163	0.000	0.163	0.118	0.000	0.118							0.003			36.9
Nitrous Oxide	tpy	0.043	0.00E+00	0.00E+00	1.4	1.46	3.48E-02	0.00E+00		1.10	1.14	0.007	0.00E+00	0.007	0.016	0.000	0.016	0.012	0.000	0.012							0.0006			5.27
HAPs/TAPs																														
1,3 Butadiene	lb/yr					0								0			0			0										0.00E+00
2,3,7,8-TCDD	lb/yr			0.00E+00	4.68E-07	4.68E-07				3.63E-07	3.63E-07			0			0			0										1.66E-06
2,4-Dinitrotoluene	lb/yr				9.16E-03	9.16E-03				0.01	0.01			0			0			0										0.033
2-Chloroacetophenone	lb/yr				0.23	0.23				0.18	0.17757873			0			0			0										0.813
Acetaldehyde	lb/yr			0.00E+00	18.65	18.65				14.46	14.46			0			0			0							0.02			66.2
Acetic Acid	lb/yr					0					0			0			0			0										0.00E+00
Acetophenone	lb/yr			0.00E+00	0.49	0.49				0.38	0.38			0			0			0										1.74
Acrolein	lb/yr			0.00E+00	9.49	9.49				7.36	7.36			0			0			0							0.01			33.7
Antimony	lb/yr		0.00E+00	0.00E+00	0.26	0.26		0.00E+00		0.20	0.20			0			0			0										0.924
Arsenic	lb/yr	0.08	0.00E+00	0.00E+00	0.24	0.32	6.15E-02	0.00E+00		0.19	0.25	0.012	0.00E+00	0.012	0.029	0.000	0.029	0.021	0.000	0.021										1.26
Benzene	lb/yr	0.8	0.00E+00	0.00E+00	42.53	43.33	6.46E-01	0.00E+00		32.98	33.62	0.123	0.00E+00	0.123	0.303	0.000	0.303	0.218	0.000	0.218							0.74			156
Benzo(a)pyrene	lb/yr			0.00E+00	1.24E-03	1.24E-03				0.00	9.64E-04			0			0			0										4.41E-03
Benzyl Chloride	lb/yr				22.90	22.901963				17.76	17.76			0			0			0										81.3
Beryllium	lb/yr		0.00E+00	0.00E+00	0.04	0.04		0.00E+00		0.03	0.03		0.00E+00	0.00E+00		0.00E+00	0.00E+00		0.00E+00	0.00E+00										0.151
Biphenyl	lb/yr				5.56E-02	0.06				4.31E-02	0.04			0			0			0										0.197
Bis(2-ethylhexyl)phthalate (DEHP)	lb/yr				2.39	2.39				1.85	1.85			0			0			0										8.48
Bromine	lb/yr				6.60	6.60				5.13	5.13			0			0			0										23.5
Bromoform	lb/yr				1.28	1.28				0.99	0.99			0			0			0										4.53
Cadmium	lb/yr	0.42	0.00E+00	0.00E+00	1.12E-01	0.53	3.38E-01	0.00E+00		8.70E-02	0.43	0.065	0.00E+00	0.065	0.159	0.000	0.159	0.114	0.000	0.114										2.58
Carbon Disulfide	lb/yr				4.25	4.25				3.30	3.30			0			0			0										15.1
Chlorine	lb/yr			0.00E+00	86.89	86.89				67.60	67.60																			309
Chlorobenzene	lb/yr			0.00E+00	0.72	0.72				0.56	0.56			0			0			0										2.56
Chloroform	lb/yr			0.00E+00	1.93	1.93				1.50	1.50			0			0			0										6.85
Chromium	lb/yr	0.53	0.00E+00	0.00E+00	3.86	4.39	4.30E-01	0.00E+00		3.00	3.43	0.082	0.00E+00	0.082	0.202	0.000	0.202	0.146	0.000	0.146										16.5
Chromium VI	lb/yr	0.53	0.00E+00		0.01	0.54	4.30E-01	0.00E+00		0.01	0.44	0.082	0.00E+00	0.082	0.202	0.000	0.202	0.146	0.000	0.146										2.81
Cobalt	lb/yr		0.00E+00	0.00E+00	0.22	0.22		0.00E+00		0.17	0.17			0			0			0										0.790
Cumene	lb/yr				0.17	0.17				0.13	0.13			0			0			0										0.616
Cyanide	lb/yr				81.79	81.79				63.42	63.42			0			0			0										290
Dibenzofurans	lb/yr				6.58E-03	0.01				5.10E-03	0.01			0			0			0										0.023
Dichlorobenzene	lb/yr	0.45				0.45446971	3.69E-01				3.69E-01	0.070		0.070	0.173		0.173	0.125		0.125										2.38
Dimethyl Sulfate	lb/yr				1.57	1.57				1.22	1.22			0			0			0										5.58
Ethyl Benzene	lb/yr		0.00E+00	0.00E+00	3.08	3.08		0.00E+00		2.38	2.38		0.00E+00	0.00E+00		0.00E+00	0.00E+00		0.00E+00	0.00E+00										10.9
Ethyl Chloride	lb/yr				1.37	1.37				1.07	1.07			0			0			0										4.88
Ethylene Dibromide	lb/yr				3.93E-02	0.04				3.04E-02	0.03			0			0			0										0.139
Ethylene Dichloride	lb/yr			0.00E+00	1.31	1.31				1.01	1.01			0			0			0										4.65
Ethylene Glycol	lb/yr					0					0			0			0			0										0.00E+00
Ethylene Oxide	lb/yr					0					0			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	0.00E+00		0.00E+00	0.00E+00										0.00E+00
Formaldehyde	lb/yr	28.40	0.00E+00	0.00E+00	52.94	81.35	2.31E+01	0.00E+00		41.18	64.24	4.402	0.00E+00	4.402	10.835	0.00E+00	10.835	7.798	0.00E+00	7.798							0.07			337
Glycol Ethers	lb/yr					0					0			0			0			0										0.00E+00
Hexane	lb/yr	681.70			2.19	683.90	5.53E+02			1.70	555.06	105.638		105.638	260.046		260.046	187.146		187.146										3,584
Hydrogen Chloride	lb/yr			0.00E+00	16,091.57	16,091.57				12642.96	12642.96			0			0			0										57,469
Hydrogen Fluoride	lb/yr				185.05	185.05				143.95	143.95			0			0			0										658
Isophorone	lb/yr				18.98	18.98				14.71	14.71			0			0			0										67.4
Lead	lb/yr	0.19	0.00E+00	0.00E+00	1.42	1.61	1.54E-01	0.00E+00		1.10	1.26	0.029	0.00E+00	0.029	0.072	0.000	0.072	0.052	0.000	0.052										6.03
Manganese	lb/yr	0.14	0.00E+00	0.00E+00	9.65	9.80	1.17E-01	0.00E+00		7.51	7.63	0.022	0.00E+00	0.022	0.055	0.000	0.055	0.040	0.000	0.040										35.1
Mercury	lb/yr	0.10	0.00E+00	0.00E+00	0.67	0.77	7.99E-02	0.00E+00		0.52	0.60	0.015	0.00E+00	0.015	0.038	0.000	0.038	0.027	0.000	0.027										2.91
Methly Chloride	lb/yr			0.00E+00	17.34	17.34				13.45	13.45			0			0			0										61.6
Methly Ethyl Ketone	lb/yr			0.00E+00	12.76	12.76				9.89	9.89			0			0			0										45.3
Methyl Bromide	lb/yr				5.23	5.23				4.06	4.06			0			0			0										18.6
Methyl Chloroform	lb/yr		0.00E+00	0.00E+00		0.00E+00		0.00E+00			0.00E+00		0.00E+00	0.00E+00		0.00E+00	0.00E+00		0.00E+00	0.00E+00										0.00E+00
Methyl Hydrazine	lb/yr				5.56	5.56				4.31	4.31			0			0			0										19.7
Methyl Methacrylate	lb/yr				0.65	0.65				0.51	0.51			0			0			0										2.32
Methyl Tert Butyl Ether	lb/yr				1.15	1.15				0.89	0.89			0			0			0										4.07
Methylene Chloride	lb/yr			0.00E+00	9.49	9.49				7.36	7.36			0			0			0										33.7
Napthalene	lb/yr	0.23	0.00E+00	0.00E+00	0.43	0.66	1.88E-01	0.00E+00		0.33	0.52	0.036	0.00E+00	0.036	0.088	0.000	0.088	0.063	0.000	0.063							0.12			2.85
Nickel	lb/yr	0.80	0.00E+00	0.00E+00	7.86	8.66	6.46E-01	0.00E+00		6.11	6.76	0.123	0.00E+00	0.123	0.303	0.000	0.303	0.218	0.000	0.218										32.1
PAH	lb/yr					0					0			0			0			0										0.00E+00
Phenol	lb/yr			0.00E+00	0.52	0.52				0.41	0.41			0			0			0										1.86
Phosphorus	lb/yr			0.00E+00	1.17	1.17				0.91	0.91																			4.18
POM	lb/yr	0.25	0.00E+00	0.00E+00	1.80	2.05	2.03E-01	0.00E+00		1.40	1.61	0.039	0.00E+00	0.039	0.096	0.000	0.096	0.069	0.000	0.069										7.72
Propionaldehyde	lb/yr			0.00E+00	12.43	12.43				9.64	9.64			0			0			0										44.1
Propylene	lb/yr					0					0			0			0			0							0.20			0.201
Selenium	lb/yr		0.00E+00	0.00E+00	0.17	0.17		0.00E+00		0.13	0.13		0.00E+00	0.00E+00		0.00E+00	0.00E+00		0.00E+00	0.00E+00										0.615
Styrene	lb/yr			0.00E+00	0.82	0.82				0.63	0.63			0			0			0										2.90
Tetrachloroethane	lb/yr				1.41	1.41				1.09	1.09			0			0			0										5.00
Toluene	lb/yr	1.29	0.00E+00	0.00E+00	7.85	9.14	1.05E+00	0.00E+00		6.09	7.13	0.200	0.00E+00	0.200	0.491	0.000	0.491	0.353	0.000	0.353							0.27			34.9
Vinyl Acetate	lb/yr				0.25	0.25				0.19	0.19			0			0			0										0.883
Xylenes	lb/yr		0.00E+00	0.00E+00	1.21	1.21		0.00E+00		0.94	0.94		0.00E+00	0.00E+00		0.00E+00	0.00E+00		0.00E+00	0.00E+00							0.18			4.48