

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 Total	Boiler #7				Boiler #7 Total	Boiler #8		Boiler #8 Total	Boiler #9		Boiler #9 Total	Boiler #10		Boiler #10 Total	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	Sterilizers located at Dental School	Grouped Small Generators (No. 2 Fuel Oil)	EPA Building Emergency Generator	Bondurant Emergency Generator	New East Emergency Generator	
		Natural Gas	Fuel Oil	Wood	Coal		Natural Gas	Fuel Oil	Wood	Coal		Natural Gas	Fuel Oil		Natural Gas	Fuel Oil		Natural Gas	Fuel Oil														Natural Gas
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		0.167	1.23E-03	7.70E-03		
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		0.167	1.23E-03	7.70E-03		
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		0.167	1.23E-03	7.70E-03		
NOx	tpy	55.13	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	2.37	2.33E-02	1.46E-01			
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	0.00	0.193	1.01E-03	6.31E-03		
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	0.51	1.04E-02	6.55E-02			
SO2	tpy	0.00	0.00E+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	0.03	6.20E-04	3.89E-03			
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	87.63	2.00	12.56	
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	3.55E-03	8.13E-05	5.10E-04		
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	7.11E-04	1.63E-05	1.02E-04		
HAPs/TAPs																																	
1,3 Butadiene	lb/yr					0					0						0															4.20E-02	
2,3,7,8-TCDD	lb/yr			0.00E+00	4.68E-07	4.68E-07					3.63E-07	3.63E-07					0																
2,4-Dinitrotoluene	lb/yr				9.16E-03	9.16E-03					0.01	0.01					0																
2-Chloroacetophenone	lb/yr				0.23	0.23					0.18	0.17757873					0																
Acetaldehyde	lb/yr			0.00E+00	18.65	18.65					14.46	14.46					0																
Acetic Acid	lb/yr				0	0					0	0					0																
Acetophenone	lb/yr			0.00E+00	0.49	0.49					0.38	0.38					0																
Acrolein	lb/yr			0.00E+00	9.49	9.49					7.36	7.36					0																
Antimony	lb/yr			0.00E+00	0.26	0.26					0.20	0.20					0																
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												
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												
Benzo(a)pyrene	lb/yr			0.00E+00	1.24E-03	1.24E-03					0.00	9.64E-04					0																
Benzyl Chloride	lb/yr				22.90	22.901963					17.76	17.76					0																
Beryllium	lb/yr			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												
Biphenyl	lb/yr				5.56E-02	0.06					4.31E-02	0.04					0																
Bis(2-ethylhexyl)phthalate (DEHP)	lb/yr				2.39	2.39					1.85	1.85					0																
Bromine	lb/yr				6.60	6.60					5.13	5.13					0																
Bromoform	lb/yr				1.28	1.28					0.99	0.99					0																
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												
Carbon Disulfide	lb/yr				4.25	4.25					3.30	3.30					0																
Chlorine	lb/yr			0.00E+00	86.89	86.89					67.60	67.60					0																
Chlorobenzene	lb/yr			0.00E+00	0.72	0.72					0.56	0.56					0																
Chloroform	lb/yr			0.00E+00	1.93	1.93					1.50	1.50					0																
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												
Chromium VI	lb/yr	0.53	0.00E+00	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												
Cobalt	lb/yr			0.00E+00	0.22	0.22					0.17	0.17					0																
Cumene	lb/yr				0.17	0.17					0.13	0.13					0																
Cyanide	lb/yr				81.79	81.79					63.42	63.42					0																
Dibenzofurans	lb/yr				6.58E-03	0.01					5.10E-03	0.01					0																
Dichlorobenzene	lb/yr	0.45			0.45446971	3.69E-01					3.69E-01	0.070					0.070	0.173															
Dimethyl Sulfate	lb/yr				1.57	1.57					1.22	1.22					0																
Ethyl Benzene	lb/yr			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												
Ethyl Chloride	lb/yr				1.37	1.37					1.07	1.07					0																
Ethylene Dibromide	lb/yr				3.93E-02	0.04					3.04E-02	0.03					0																
Ethylene Dichloride	lb/yr			0.00E+00	1.31	1.31					1.01	1.01					0																
Ethylene Glycol	lb/yr				0	0					0	0					0																
Ethylene Oxide	lb/yr				0	0					0																						



