University of North Carolina at Chapel Hill
Chapel Hill, North Carolina
Orange County
Facility ID # 6800043
Permit # 03069T36

2021 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	Non-Emergency Generators G1 & G2	Fuel Oil Storage Tanks Manning	Fuel Oil Storage Tanks Cogen	2021 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	2.25128131	0	0	0.935213709	3.186495019	2.196786308	0	0	0.602640582	2.79942689	0.121277	0	0.121277	0.3339592	0	0.3339592	0.1435982	0	0.1435982	0.00363116	0.002114936	0.002114936	0.008792046	1.068302538	0.330511636	3.69E-02			14.6
PM-10	tpy	2.25128131	0	0	0.935213709	3.186495019	2.196786308	0	0	0.602640582	2.79942689	0.121277	0	0.121277	0.3339592	0	0.3339592	0.1435982	0	0.1435982	0.001448771	0.002114936	0.002114936	0.0041584	1.068302538	0.330511636	3.69E-02			14.6
PM-2.5	tpy	2.25128131	0	0	0.935213709	3.186495019	2.196786308	0	0	0.602640582	2.79942689	0.121277	0	0.121277	0.3339592	0	0.3339592	0.1435982	0	0.1435982	0.000455328	0.002009189	0.002009189	0.001306926	1.014887411	0.313986054	3.69E-02			14.5
NOx	tpy	36.40892529	0	0	33.72005616	70.12898145	39.92296895	0	0	38.73854704	78.66151599	0.9373041	0	0.9373041	1.968210611	0	1.968210611	0.93575257	0	0.93575257							7.01E-01			306
VOC	tpy	1.629216738	0	0	0.130363123	1.759579861	1.589779565	0	0	0.133276283	1.723055848	0.08776625	0	0.08776625	0.241681	0	0.241681	0.10391975	0	0.10391975							3.02E-02	1.72E-02	2.15E-01	8.09
CO	tpy	24.8825829	0	0	9.04039919	33.92298209	24.28026972	0	0	11.7920537	36.07232342	1.34043	0	1.34043	3.691128	0	3.691128	1.587138	0	1.587138							9.41E-02			153
SO2	tpy	0*	0	0*	99.83266706	99.83266706	0*	0	0*	104.142348	104.142348	0.0095745	0	0.0095745	0.0263652	0	0.0263652	0.0113367	0	0.0113367							1.48E-02			408
Greenhouse Gases																														
CO2	tpy	3.90E+04	0.00E+00	0.00E+00	6.34E+04	1.02E+05	3.95E+04	0.00E+00	0.00E+00	6.74E+04	1.07E+05	6.09E+02	0.00E+00	6.09E+02	6.82E+03	0.00E+00	6.82E+03	3.11E+03	0.00E+00	3.11E+03							6.02E+01			439,886
Methane	tpy	6.75E-01	0.00E+00	0.00E+00	6.87E+00	7.55E+00	6.58E-01	0.00E+00	0.00E+00	7.03E+00	7.68E+00	3.63E-02	0.00E+00	3.63E-02	1.00E-01	0.00E+00	1.00E-01	4.30E-02	0.00E+00	4.30E-02							2.44E-03			30.8
Nitrous Oxide	tpy	6.75E-02	0.00E+00	0.00E+00	1.00E+00	1.07E+00	6.58E-02	0.00E+00	0.00E+00	1.02E+00	1.09E+00	3.63E-03	0.00E+00	3.63E-03	1.00E-02	0.00E+00	1.00E-02	4.30E-03	0.00E+00	4.30E-03							4.88E-04			4.35
HAPs/TAPs																														
1,3 Butadiene	lb/yr					0.00E+00					0.00E+00			0.00E+00			0.00E+00			0.00E+00										0.00E+00
2,3,7,8-TCDD	lb/yr			0.00E+00	3.28E-07	3.28E-07			0.00E+00	3.35E-07	3.35E-07			0.00E+00			0.00E+00			0.00E+00										1.33E-06
2,4-Dinitrotoluene	lb/yr				6.42E-03	6.42E-03				6.57E-03	6.57E-03			0.00E+00			0.00E+00			0.00E+00										0.026
2-Chloroacetophenone	lb/yr				1.61E-01	1.61E-01				1.64E-01	1.64E-01			0.00E+00			0.00E+00			0.00E+00										0.649
Acetaldehyde	lb/yr			0.00E+00	1.31E+01	1.31E+01			0.00E+00	1.34E+01	1.34E+01			0.00E+00			0.00E+00			0.00E+00							1.86E-02			52.9
Acetic Acid	lb/yr					0.00E+00					0.00E+00			0.00E+00			0.00E+00			0.00E+00										0.00E+00
Acetophenone	lb/yr			0.00E+00	3.44E-01	3.44E-01			0.00E+00	3.52E-01	3.52E-01			0.00E+00			0.00E+00			0.00E+00										1.39
Acrolein	lb/yr			0.00E+00	6.65E+00	6.65E+00			0.00E+00	6.80E+00	6.80E+00			0.00E+00			0.00E+00			0.00E+00							5.82E-03			26.9
Ammonia	lb/yr	1.90E+03				1.90E+03	1.85E+03				1.85E+03	1.02E+02		1.02E+02	2.81E+02		2.81E+02	1.21E+02		1.21E+02										8.500
Antimony	lb/yr		0.00E+00	0.00E+00	1.83E-01	1.83E-01		0.00E+00	0.00E+00	1.87E-01	1.87E-01		0.00E+00	0.00E+00		0.00E+00	0.00E+00		0.00E+00	0.00E+00										0.740
Arsenic	lb/yr	1.18E-01	0.00E+00	0.00E+00	1.71E-01	2.89E-01	1.16E-01	0.00E+00	0.00E+00	1.74E-01	2.90E-01	6.38E-03	0.00E+00	6.38E-03	1.76E-02	0.00E+00	1.76E-02	7.56E-03	0.00E+00	7.56E-03							2.95E-03			1.22
Benzene	lb/yr	1.24E+00	0.00E+00	0.00E+00	2.98E+01	3.11E+01	1.21E+00	0.00E+00	0.00E+00	3.05E+01	3.17E+01	6.70E-02	0.00E+00	6.70E-02	1.85E-01	0.00E+00	1.85E-01	7.94E-02	0.00E+00	7.94E-02							5.73E-01			127
Benzo(a)pyrene	lb/yr			0.00E+00	8.71E-04	8.71E-04			0.00E+00	8.91E-04	8.91E-04			0.00E+00			0.00E+00			0.00E+00							1.90E-04			3.72E-03
Benzyl Chloride	lb/yr				1.61E+01	1.61E+01				1.64E+01	1.64E+01			0.00E+00			0.00E+00			0.00E+00										64.9
Beryllium	lb/yr	7.11E-03	0.00E+00	0.00E+00	2.99E-02	3.70E-02	6.94E-03	0.00E+00	0.00E+00	3.06E-02	3.75E-02	3.83E-04	0.00E+00	3.83E-04	1.05E-03	0.00E+00	1.05E-03	4.53E-04	0.00E+00	4.53E-04							2.21E-03			0.155
Biphenyl	lb/yr				3.90E-02	3.90E-02				3.99E-02	3.99E-02			0.00E+00			0.00E+00			0.00E+00										0.158
Bis(2-ethylhexyl)phthalate (DEHP)	lb/yr				1.67E+00	1.67E+00				1.71E+00	1.71E+00			0.00E+00			0.00E+00			0.00E+00										6.77
Bromine	lb/yr				4.65E+00	4.65E+00				4.75E+00	4.75E+00			0.00E+00			0.00E+00			0.00E+00										18.8
Bromoform	lb/yr				8.94E-01	8.94E-01				9.15E-01	9.15E-01			0.00E+00			0.00E+00			0.00E+00										3.62
Cadmium	lb/yr	6.52E-01	0.00E+00	0.00E+00	7.88E-02	7.30E-01	6.36E-01	0.00E+00	0.00E+00	8.05E-02	7.16E-01	3.51E-02	0.00E+00	3.51E-02	9.67E-02	0.00E+00	9.67E-02	4.16E-02	0.00E+00	4.16E-02							2.21E-03			3.24
Carbon Disulfide	lb/yr				2.98E+00	2.98E+00				3.05E+00	3.05E+00			0.00E+00			0.00E+00			0.00E+00										12.1
Chlorine	lb/yr			0.00E+00	6.12E+01	6.12E+01			0.00E+00	6.26E+01	6.26E+01																			248
Chlorobenzene	lb/yr			0.00E+00	5.05E-01	5.05E-01			0.00E+00	5.16E-01	5.16E-01			0.00E+00			0.00E+00			0.00E+00										2.04
Chloroform	lb/yr			0.00E+00	1.35E+00	1.35E+00			0.00E+00	1.38E+00	1.38E+00			0.00E+00			0.00E+00			0.00E+00										5.47
Chromium	lb/yr	8.29E-01	0.00E+00	0.00E+00	2.72E+00	3.55E+00	8.09E-01	0.00E+00	0.00E+00	2.78E+00	3.59E+00	4.47E-02	0.00E+00	4.47E-02	1.23E-01	0.00E+00	1.23E-01	5.29E-02	0.00E+00	5.29E-02							2.21E-03			14.7
Chromic Acid VI	lb/yr	8.29E-01	0.00E+00		5.44E-03	8.35E-01	8.09E-01	0.00E+00		5.56E-03	8.15E-01	4.47E-02	0.00E+00	4.47E-02	1.23E-01	0.00E+00	1.23E-01	5.29E-02	0.00E+00	5.29E-02										3.74
Cobalt	lb/yr	4.98E-02	0.00E+00	0.00E+00	1.56E-01	2.06E-01	4.86E-02	0.00E+00	0.00E+00	1.60E-01	2.08E-01	2.68E-03	0.00E+00	2.68E-03	7.38E-03		7.38E-03	3.17E-03	0.00E+00	3.17E-03										0.856
Cumene	lb/yr				1.22E-01	1.22E-01				1.24E-01	1.24E-01			0.00E+00			0.00E+00			0.00E+00										0.492
Cyanide	lb/yr				5.73E+01	5.73E+01				5.86E+01	5.86E+01			0.00E+00			0.00E+00			0.00E+00										232
Dibenzofurans	lb/yr				4.61E-03	4.61E-03				4.71E-03	4.71E-03			0.00E+00			0.00E+00			0.00E+00										0.019
Dichlorobenzene	lb/yr	7.11E-01				7.11E-01	6.94E-01				6.94E-01	3.83E-02		3.83E-02	1.05E-01		1.05E-01	4.53E-02		4.53E-02										3.19
Dimethyl Sulfate	lb/yr				1.10E+00	1.10E+00				1.13E+00	1.13E+00			0.00E+00			0.00E+00			0.00E+00										4.45
Ethyl Benzene	lb/yr		0.00E+00	0.00E+00	2.16E+00	2.16E+00		0.00E+00	0.00E+00	2.20E+00	2.20E+00		0.00E+00	0.00E+00		0.00E+00	0.00E+00		0.00E+00	0.00E+00										8.72
Ethyl Chloride	lb/yr				9.63E-01	9.63E-01				9.85E-01	9.85E-01			0.00E+00			0.00E+00			0.00E+00										3.90
Ethylene Dibromide	lb/yr				2.75E-02	2.75E-02				2.81E-02	2.81E-02			0.00E+00			0.00E+00			0.00E+00										0.111
Ethylene Dichloride	lb/yr			0.00E+00	9.17E-01	9.17E-01			0.00E+00	9.38E-01	9.38E-01			0.00E+00			0.00E+00			0.00E+00										3.71
Ethylene Glycol	lb/yr					0.00E+00					0.00E+00			0.00E+00			0.00E+00			0.00E+00										0.00E+00
Ethylene Oxide	lb/yr					0.00E+00					0.00E+00			0.00E+00			0.00E+00			0.00E+00										0.00E+00
Fluoride	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
Formaldehyde	lb/yr	4.44E+01	0.00E+00	0.00E+00	3.73E+01	8.17E+01	4.34E+01	0.00E+00	0.00E+00	3.81E+01	8.15E+01	2.39E+00	0.00E+00	2.39E+00	6.59E+00	0.00E+00	6.59E+00	2.83E+00	0.00E+00	2.83E+00							5.83E-02			350
Glycol Ethers	lb/yr					0.00E+00					0.00E+00			0.00E+00			0.00E+00			0.00E+00										0.00E+00
Hexane	lb/yr	1.07E+03			1.54E+00	1.07E+03	1.04E+03			1.57E+00	1.04E+03	5.74E+01		5.74E+01	1.58E+02		1.58E+02	6.80E+01		6.80E+01										4,787
Hydrogen Chloride	lb/yr			0.00E+00	1.00E+04	1.00E+04			0.00E+00	1.01E+04	1.01E+04			0.00E+00			0.00E+00			0.00E+00										40,230
Hydrogen Fluoride	lb/yr				1.30E+02	1.30E+02				1.33E+02	1.33E+02			0.00E+00			0.00E+00			0.00E+00										527
Isophorone	lb/yr				1.33E+01	1.33E+01				1.36E+01	1.36E+01			0.00E+00			0.00E+00			0.00E+00										53.8
Lead	lb/yr	2.96E-01	0.00E+00	0.00E+00	9.98E-01	1.29E+00	2.89E-01	0.00E+00	0.00E+00	1.02E+00	1.31E+00	1.60E-02	0.00E+00	1.60E-02	4.39E-02	0.00E+00	4.39E-02	1.89E-02	0.00E+00	1.89E-02							6.64E-03			5.37
Manganese	lb/yr	2.25E-01	0.00E+00	0.00E+00	6.80E+00	7.03E+00	2.20E-01	0.00E+00	0.00E+00	6.95E+00	7.17E+00	1.21E-02	0.00E+00	1.21E-02	3.34E-02	0.00E+00	3.34E-02	1.44E-02	0.00E+00	1.44E-02							4.43E-03			28.5
Mercury	lb/yr	1.54E-01	0.00E+00	0.00E+00	9.92E-03	1.64E-01	1.50E-01	0.00E+00	0.00E+00	8.11E-03	1.58E-01	8.30E-03	0.00E+00	8.30E-03	2.28E-02	0.00E+00	2.28E-02	9.83E-03	0.00E+00	9.83E-03							2.21E-03			0.729
Methyl Chloride	lb/yr			0.00E+00	1.22E+01	1.22E+01			0.00E+00	1.24E+01	1.24E+01			0.00E+00			0.00E+00			0.00E+00										49.2
Methyl Ethyl Ketone	lb/yr			0.00E+00	8.94E+00	8.94E+00			0.00E+00	9.15E+00	9.15E+00			0.00E+00			0.00E+00			0.00E+00										36.2
Methyl Bromide	lb/yr				3.67E+00	3.67E+00				3.75E+00	3.75E+00			0.00E+00			0.00E+00			0.00E+00										14.8
Methyl Chloroform' 1, 1, 1 Trichloroethane	lb/yr		0.00E+00	0.00E+00	4.59E-01	4.59E-01		0.00E+00	0.00E+00	4.69E-01	4.69E-01		0.00E+00	0.00E+00		0.00E+00	0.00E+00		0.00E+00	0.00E+00										1.86
Methyl Hydrazine	lb/yr				3.90E+00	3.90E+00				3.99E+00	3.99E+00			0.00E+00			0.00E+00			0.00E+00										15.8
Methyl Methacrylate	lb/yr				4.59E-01	4.59E-01				4.69E-01	4.69E-01			0.00E+00			0.00E+00			0.00E+00										1.86
Methyl Tert Butyl Ether	lb/yr				8.03E-01	8.03E-01				8.21E-01	8.21E-01			0.00E+00			0.00E+00			0.00E+00										3.25
Methylene Chloride	lb/yr			0.00E+00	6.65E+00	6.65E+00			0.00E+00	6.80E+00	6.80E+00			0.00E+00			0.00E+00			0.00E+00										26.9
Naphthalene	lb/yr	3.61E-01	0.00E+00	0.00E+00	2.98E-01	6.60E-01	3.53E-01	0.00E+00	0.00E+00	3.05E-01	6.58E-01	1.95E-02	0.00E+00	1.95E-02	5.36E-02	0.00E+00	5.36E-02	2.31E-02	0.00E+00	2.31E-02							9.60E-02			2.92
Nickel	lb/yr	1.24E+00	0.00E+00	0.00E+00	5.54E+00	6.78E+00	1.21E+00	0.00E+00	0.00E+00	5.66E+00	6.88E+00	6.70E-02	0.00E+00	6.70E-02	1.85E-01	0.00E+00	1.85E-01	7.94E-02	0.00E+00	7.94E-02							2.21E-03			28.0
PAH	lb/yr					0.00E+00					0.00E+00			0.00E+00			0.00E+00			0.00E+00							1.57E-01			0.157
Phenol	lb/yr			0.00E+00	3.67E-01	3.67E-01			0.00E+00	3.75E-01	3.75E-01			0.00E+00			0.00E+00			0.00E+00										1.48
Phosphorus	lb/yr			0.00E+00	8.28E-01	8.28E-01			0.00E+00	8.46E-01	8.46E-01																			3.35
POM	lb/yr	3.92E-01	0.00E+00	0.00E+00	1.27E+00	1.66E+00	3.83E-01	0.00E+00	0.00E+00	1.30E+00	1.68E+00	2.11E-02	0.00E+00	2.11E-02	5.82E-02	0.00E+00	5.82E-02	2.50E-02	0.00E+00	2.50E-02										6.89
Propionaldehyde	lb/yr			0.00E+00	8.71E+00	8.71E+00			0.00E+00	8.91E+00	8.91E+00			0.00E+00			0.00E+00			0.00E+00										35.3
Selenium	lb/yr	1.42E-02	0.00E+00	0.00E+00	1.22E-01	1.36E-01	1.39E-02	0.00E+00	0.00E+00	1.25E-01	1.38E-01	7.66E-04	0.00E+00	7.66E-04	2.11E-03	0.00E+00	2.11E-03	7.94E-02	0.00E+00	7.94E-02							1.11E-02			0.725
Styrene	lb/yr			0.00E+00	5.73E-01	5.73E-01			0.00E+00	5.86E-01	5.86E-01			0.00E+00			0.00E+00			0.00E+00										2.32
Tetrachloroethylene (Perchloroethylene)	lb/yr				9.86E-01	9.86E-01				1.01E+00	1.01E+00			0.00E+00			0.00E+00			0.00E+00										3.99
Toluene	lb/yr	2.01E+00	0.00E+00	0.00E+00	5.50E+00	7.52E+00	1.97E+00	0.00E+00	0.00E+00	5.63E+00	7.59E+00	1.09E-01	0.00E+00	1.09E-01	2.99E-01	0.00E+00	2.99E-01	1.28E-01	0.00E+00	1.28E-01							2.07E-01			31.5
Vinyl Acetate	lb/yr				1.74E-01	1.74E-01				1.78E-01	1.78E-01			0.00E+00			0.00E+00			0.00E+00										0.705
Xylenes	lb/yr		0.00E+00	0.00E+00	8.48E-01	8.48E-01		0.00E+00	0.00E+00	8.68E-01	8.68E-01		0.00E+00	0.00E+00		0.00E+00	0.00E+00		0.00E+00	0.00E+00							1.42E-01			3.58