

Total Emissions Summary for 2016-All Sources

Pollutant	CAS	Emissions Tons								Totals	
		Boiler 2	Boiler 3	Small Boilers	Boiler 1A	Boiler 1B	Engine Chiller	Generators			
Ammonia	7664417	0.0000	0.0000	0.0037	0.0106	0.0118	0.0000	0.0000	0.0261	Ammonia	
CO	630080	0.0000	0.0000	0.6301	1.5817	1.5795	0.2222	0.2731	4.2866	CO	
Lead	7439921	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	Lead	
NOX	10102440	0.0000	0.0000	0.7501	0.7112	0.7389	0.1171	1.2798	3.5972	NOX	
PM10		0.0000	0.0000	0.0225	0.0653	0.0732	0.0000	0.0880	0.2490	PM10	
PM5		0.0000	0.0000	0.0000	0.0198	0.0379	0.0000	0.0000	0.0577	PM5	
SOX	7446095	0.0000	0.0000	0.0045	0.0613	0.1068	0.0007	0.0821	0.2554	SOX	
VOC		0.0000	0.0000	0.0413	0.1050	0.1061	0.0820	0.0676	0.4020	VOC	
Antimony	7440360	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	Antimony	
Arsenic	7440382	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	Arsenic	
Barium	7440393	0.0000	0.0000	0.0000	0.0001	0.0001			0.0002	Barium	
Benzene	71432	0.0000	0.0000	0.0000	0.0000	0.0000			0.0001	Benzene	
Butane	106978	0.0000	0.0000	0.0158	0.0393	0.0391			0.0941	Butane	
Cadmium	7440439	0.0000	0.0000	0.0000	0.0000	0.0000			0.0001	Cadmium	
Chloride		0.0000	0.0000	0.0000	0.0006	0.0011			0.0017	Chloride	
Chromium	7440473	0.0000	0.0000	0.0000	0.0000	0.0000			0.0001	Chromium	
Copper	7440508	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	Copper	
Ethane	74840	0.0000	0.0000	0.0233	0.0580	0.0577			0.1390	Ethane	
Ethyl Benzene	100414	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	Ethyl Benzene	
Fluoride	16984488	0.0000	0.0000	0.0000	0.0001	0.0001			0.0002	Fluoride	
Formaldehyde	50000	0.0000	0.0000	0.0005	0.0014	0.0014			0.0033	Formaldehyde	
Hexane	110543	0.0000	0.0000	0.0135	0.0337	0.0335			0.0807	Hexane	
Hexavalent Chromium	18540299	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	Hexavalent Chromium	
Manganese	7439965	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	Manganese	
Mercury	7439976	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	Mercury	
Methane	74828	0.0000	0.0000	0.0173	0.0439	0.0444			0.1055	Methane	
Methyl Chloroform	71556	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	Methyl Chloroform	
Molybdenum	7439987	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	Molybdenum	
Napthalene	91203	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	Napthalene	
Nickel	7440020	0.0000	0.0000	0.0000	0.0002	0.0003			0.0005	Nickel	
Pentane	109660	0.0000	0.0000	0.0195	0.0487	0.0484			0.1166	Pentane	
Phosphorus	7723140	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	Phosphorus	
Propane	74986	0.0000	0.0000	0.0120	0.0300	0.0298			0.0717	Propane	
Selenium	7782492	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	Selenium	
Toluene	108883	0.0000	0.0000	0.0000	0.0001	0.0001			0.0002	Toluene	
Vanadium	7440622	0.0000	0.0000	0.0000	0.0001	0.0001			0.0003	Vanadium	
Zinc	7440666	0.0000	0.0000	0.0002	0.0004	0.0004			0.0010	Zinc	
o-Xylene	95476	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	o-Xylene	
CO2		0.0000	0.0000	924.1843	2286.5896	2308.1703	8.0165	47.8510	5,574.8118	Carbon Dioxide	
N2O		0.0000	0.0000	0.0017	0.0007	0.0010	0.0000	0.0004	0.0038	Nitrogen Oxide	
CH4		0.0000	0.0000	0.0170	0.0390	0.0403	0.0000	0.0019	0.0982	Methane	
Fuels Summary	#6 Fuel			-	-	-	-	-	-	#6 Fuel	
	#2 Fuel			-	3,523	6,736	-	-	10,259	#2 Fuel, Gallons	
	Nat. Gas			15,003	37,449	37,206	133	22	89,813	Nat. Gas, MCF	
	Diesel			-	-	-	-	4,135	4,135	Diesel	

Swarthmore College - Emission Inventory 2015
 Contact: Ralph Thayer, Director of Maintenance
 (610)328-8278

Worksheet 1A

Fuel By Month - Heat Plant

2016

#2-.2% Fuel	Boiler #1A	Boiler#1B	OUT OF SERVICE			Nat Gas	Boiler#1A	Boiler#1B	OUT OF SERVICE		
			Boiler#2	Boiler#3					Boiler#2	Boiler#3	
jan	-	-			-	jan	1,032	10,488			11,520
feb	2,632	5,898			8,530	feb	2,159	7,506			9,665
mar	-	-			-	mar	5,199	3,030			8,229
apr	891	838			1,729	apr	2,806	4,379			7,185
may	-	-			-	may	5,386	-			5,386
jun	-	-			-	jun	2,924	-			2,924
jul	-	-			-	jul	3,620	-			3,620
aug	-	-			-	aug	3,008	-			3,008
sept	-	-			-	sept	2,190	675			2,865
oct	-	-			-	oct	4,157	-			4,157
nov	-	-			-	nov	368	6,438			6,806
dec	-	-			-	dec	4,600	4,690			9,290
Totals-Oil	3523	6736	0	0	10,259	Totals-Gas	37,449	37,206	-	-	74,655

Boiler#2	2015	Fuel Oil					Natural Gas					Total Emission Gas+Oil	
		Pollutant	CAS	SCC	Factor-Unit/ Lb per 1,000 Gal	Emissions	Pollutant	CAS	SCC	Factor-Unit/ Lb per MMCF	Emissions		
#2 Fuel	Use in Gallons	Ammonia	7664417	01-03-006-02	0.8000	0.0000	Ammonia	7664417	01-03-006-02	0.4900	0.0000	0.0000	Ammonia
jan	0	CO*	630080	01-03-006-02	0.0500	0.0000	CO*	630080	01-03-006-02	0.0500	0.0000	0.0000	CO*
feb	0	Lead	7439921	01-03-006-02	0.0042	0.0000	Lead	7439921	01-03-006-02	0.0005	0.0000	0.0000	Lead
mar	0	NOX*	10102440	01-03-006-02	72.1000	0.0000	NOX*	10102440	01-03-006-02	125.7000	0.0000	0.0000	NOX*
apr	0	PM10***		01-03-006-02	0.2120	0.0000	PM10*		01-03-006-02	13.7000	0.0000	0.0000	PM10*
may	0	PM5		01-03-006-02	0.0000	0.0000	PM5		01-03-006-02	0.0000	0.0000	0.0000	PM5
jun	0	SOX****	7446095	01-03-006-02	79.3000	0.0000	SOX*	7446095	01-03-006-02	0.6000	0.0000	0.0000	SOX*
jul	0	VOC**		01-03-006-02	1.1300	0.0000	VOC*		01-03-006-02	5.5000	0.0000	0.0000	VOC*
aug	0	Antimony	7440360	01-03-006-02	0.0053	0.0000	Antimony	7440360	01-03-006-02	0.0000	0.0000	0.0000	Antimony
sept	0	Arsenic	7440382	01-03-006-02	0.0013	0.0000	Arsenic	7440382	01-03-006-02	0.0002	0.0000	0.0000	Arsenic
oct	0	Barium	7440393	01-03-006-02	0.0026	0.0000	Barium	7440393	01-03-006-02	0.0044	0.0000	0.0000	Barium
nov	0	Benzene	71432	01-03-006-02	0.0002	0.0000	Benzene	71432	01-03-006-02	0.0021	0.0000	0.0000	Benzene
dec	0	Butane	106978	01-03-006-02	0.0000	0.0000	Butane	106978	01-03-006-02	2.1000	0.0000	0.0000	Butane
Totals	0	Cadmium	7440439	01-03-006-02	0.0004	0.0000	Cadmium	7440439	01-03-006-02	0.0011	0.0000	0.0000	Cadmium
		Chloride		01-03-006-02	0.3400	0.0000	Chloride		01-03-006-02	0.0000	0.0000	0.0000	Chloride
		Chromium	7440473	01-03-006-02	0.0008	0.0000	Chromium	7440473	01-03-006-02	0.0014	0.0000	0.0000	Chromium
		Copper	7440508	01-03-006-02	0.0018	0.0000	Copper	7440508	01-03-006-02	0.0009	0.0000	0.0000	Copper
Nat. Gas	Use in MCF	Ethane	74840	01-03-006-02	0.0000	0.0000	Ethane	74840	01-03-006-02	3.1000	0.0000	0.0000	Ethane
jan	0	Ethyl Benzene	100414	01-03-006-02	0.0001	0.0000	Ethyl Benzene	100414	01-03-006-02	0.0000	0.0000	0.0000	Ethyl Benzene
feb	0	Fluoride	16984488	01-03-006-02	0.0300	0.0000	Fluoride	16984488	01-03-006-02	0.0000	0.0000	0.0000	Fluoride
mar	0	Formaldehyde	50000	01-03-006-02	0.0300	0.0000	Formaldehyde	50000	01-03-006-02	0.0700	0.0000	0.0000	Formaldehyde
apr	0	Hexane	110543	01-03-006-02	0.0000	0.0000	Hexane	110543	01-03-006-02	1.8000	0.0000	0.0000	Hexane
may	0	Hexavalent Ch	18540299	01-03-006-02	0.0002	0.0000	Hexavalent Ch	18540299	01-03-006-02	0.0000	0.0000	0.0000	Hexavalent Chromiun
jun	0	Manganese	7439965	01-03-006-02	0.0030	0.0000	Manganese	7439965	01-03-006-02	0.0004	0.0000	0.0000	Manganese
jul	0	Mercury	7439976	01-03-006-02	0.0001	0.0000	Mercury	7439976	01-03-006-02	0.0003	0.0000	0.0000	Mercury
aug	0	Methane	74828	01-03-006-02	0.4700	0.0000	Methane	74828	01-03-006-02	2.3000	0.0000	0.0000	Methane
sept	0	Methyl Chlorof	71556	01-03-006-02	0.0002	0.0000	Methyl Chlorof	71556	01-03-006-02	0.0000	0.0000	0.0000	Methyl Chloroform
oct	0	Molybdenum	7439987	01-03-006-02	0.0008	0.0000	Molybdenum	7439987	01-03-006-02	0.0011	0.0000	0.0000	Molybdenum
nov	0	Napthalene	91203	01-03-006-02	0.0011	0.0000	Napthalene	91203	01-03-006-02	0.0006	0.0000	0.0000	Napthalene
dec	0	Nickel	7440020	01-03-006-02	0.0800	0.0000	Nickel	7440020	01-03-006-02	0.0021	0.0000	0.0000	Nickel
Totals	0	Pentane	109660	01-03-006-02	0.0000	0.0000	Pentane	109660	01-03-006-02	2.6000	0.0000	0.0000	Pentane
		Phosphorus	7723140	01-03-006-02	0.0095	0.0000	Phosphorus	7723140	01-03-006-02	0.0000	0.0000	0.0000	Phosphorus
		Propane	74986	01-03-006-02	0.0000	0.0000	Propane	74986	01-03-006-02	1.6000	0.0000	0.0000	Propane
		Selenium	7782492	01-03-006-02	0.0007	0.0000	Selenium	7782492	01-03-006-02	0.0000	0.0000	0.0000	Selenium
		Toluene	108883	01-03-006-02	0.0062	0.0000	Toluene	108883	01-03-006-02	0.0034	0.0000	0.0000	Toluene
		Vanadium	7440622	01-03-006-02	0.0300	0.0000	Vanadium	7440622	01-03-006-02	0.0023	0.0000	0.0000	Vanadium
		Zinc	7440666	01-03-006-02	0.0200	0.0000	Zinc	7440666	01-03-006-02	0.0200	0.0000	0.0000	Zinc
		o-Xylene	95476	01-03-006-02	0.0001	0.0000	o-Xylene	95476	01-03-006-02	0.0000	0.0000	0.0000	o-Xylene
		CO2			24.4500	0.0000	CO2			0.1202	0.0000	0.0000	Carbon Dioxide
		N2O			0.00020000	0.0000	N2O			0.00000227	0.0000	0.0000	Nitrous Oxide
		CH4			0.00097000	0.0000	CH4			0.000002266	0.0000	0.0000	Methane

* Factor per Apr. 2003 Stack Test, **Remaining Factors per DEP Air Quality Emission Factor Workheet
 *** PM10 calculation (factor 5.17 x 0.041% by weight)= 0.212
 **** SOX calculation (factor 158.6 x 0.5% by weight)= 79.3

Boiler#3		2015 Fuel Oil					Natural Gas					Total Emission Gas+Oil
		Formula: (Gallons/1000 x factor unit)/2000					Formula: (mcf/1000 x factorunit)/2000					
		Pollutant	CAS	SCC	Factor-Unit/ Lb per 1,000 Gal	Emissions	Pollutant	CAS	SCC	Factor-Unit/ Lb per MMCF	Emissions	
		0					0					
#2 Fuel	Use in Gallons	Ammonia	7664417	01-03-004-02	0.8000	0.0000	Ammonia	7664417	01-03-006-02	0.4900	0.0000	0.0000 Ammonia
jan	0	CO	630080	01-03-004-02	5.0000	0.0000	CO	630080	01-03-006-02	84.0000	0.0000	0.0000 CO
feb	0	Lead	7439921	01-03-004-02	0.0042	0.0000	Lead	7439921	01-03-006-02	0.0005	0.0000	0.0000 Lead
mar	0	NOX	10102440	01-03-004-02	55.0000	0.0000	NOX	10102440	01-03-006-02	100.0000	0.0000	0.0000 NOX
apr	0	PM10		01-03-004-02	0.2120	0.0000	PM10		01-03-006-02	3.0000	0.0000	0.0000 PM10
may	0	PM5		01-03-004-02	0.0000	0.0000	PM5		01-03-006-02	0.0000	0.0000	0.0000 PM5
jun	0	SOX	7446095	01-03-004-02	79.3000	0.0000	SOX	7446095	01-03-006-02	0.6000	0.0000	0.0000 SOX
jul	0	VOC		01-03-004-02	1.1300	0.0000	VOC		01-03-006-02	5.5000	0.0000	0.0000 VOC
aug	0	Antimony	7440360	01-03-004-02	0.0053	0.0000	Antimony	7440360	01-03-006-02	0.0000	0.0000	0.0000 Antimony
sept	0	Arsenic	7440382	01-03-004-02	0.0013	0.0000	Arsenic	7440382	01-03-006-02	0.0002	0.0000	0.0000 Arsenic
oct	0	Barium	7440393	01-03-004-02	0.0026	0.0000	Barium	7440393	01-03-006-02	0.0044	0.0000	0.0000 Barium
nov	0	Benzene	71432	01-03-004-02	0.0002	0.0000	Benzene	71432	01-03-006-02	0.0021	0.0000	0.0000 Benzene
dec	0	Butane	106978	01-03-004-02	0.0000	0.0000	Butane	106978	01-03-006-02	2.1000	0.0000	0.0000 Butane
Totals	0	Cadmium	7440439	01-03-004-02	0.0004	0.0000	Cadmium	7440439	01-03-006-02	0.0011	0.0000	0.0000 Cadmium
		Chloride		01-03-004-02	0.3400	0.0000	Chloride		01-03-006-02	0.0000	0.0000	0.0000 Chloride
		Chromium	7440473	01-03-004-02	0.0008	0.0000	Chromium	7440473	01-03-006-02	0.0014	0.0000	0.0000 Chromium
		Copper	7440508	01-03-004-02	0.0018	0.0000	Copper	7440508	01-03-006-02	0.0009	0.0000	0.0000 Copper
Nat. Gas	Use in MCF	Ethane	74840	01-03-004-02	0.0000	0.0000	Ethane	74840	01-03-006-02	3.1000	0.0000	0.0000 Ethane
jan	0	Ethyl Benzene	100414	01-03-004-02	0.0001	0.0000	Ethyl Benzene	100414	01-03-006-02	0.0000	0.0000	0.0000 Ethyl Benzene
feb	0	Fluoride	16984488	01-03-004-02	0.0300	0.0000	Fluoride	16984488	01-03-006-02	0.0000	0.0000	0.0000 Fluoride
mar	0	Formaldehyde	50000	01-03-004-02	0.0300	0.0000	Formaldehyde	50000	01-03-006-02	0.0700	0.0000	0.0000 Formaldehyde
apr	0	Hexane	110543	01-03-004-02	0.0000	0.0000	Hexane	110543	01-03-006-02	1.8000	0.0000	0.0000 Hexane
may	0	Hexavalent Ch	18540299	01-03-004-02	0.0002	0.0000	Hexavalent Ch	18540299	01-03-006-02	0.0000	0.0000	0.0000 Hexavalent Ch
jun	0	Manganese	7439965	01-03-004-02	0.0030	0.0000	Manganese	7439965	01-03-006-02	0.0004	0.0000	0.0000 Manganese
jul	0	Mercury	7439976	01-03-004-02	0.0001	0.0000	Mercury	7439976	01-03-006-02	0.0003	0.0000	0.0000 Mercury
aug	0	Methane	74828	01-03-004-02	0.4700	0.0000	Methane	74828	01-03-006-02	2.3000	0.0000	0.0000 Methane
sept	0	Methyl Chlorof	71556	01-03-004-02	0.0002	0.0000	Methyl Chlorof	71556	01-03-006-02	0.0000	0.0000	0.0000 Methyl Chlorof
oct	0	Molybdenum	7439987	01-03-004-02	0.0008	0.0000	Molybdenum	7439987	01-03-006-02	0.0011	0.0000	0.0000 Molybdenum
nov	0	Napthalene	91203	01-03-004-02	0.0011	0.0000	Napthalene	91203	01-03-006-02	0.0006	0.0000	0.0000 Napthalene
dec	0	Nickel	7440020	01-03-004-02	0.0800	0.0000	Nickel	7440020	01-03-006-02	0.0021	0.0000	0.0000 Nickel
Totals	0	Pentane	109660	01-03-004-02	0.0000	0.0000	Pentane	109660	01-03-006-02	2.6000	0.0000	0.0000 Pentane
		Phosphorus	7723140	01-03-004-02	0.0095	0.0000	Phosphorus	7723140	01-03-006-02	0.0000	0.0000	0.0000 Phosphorus
		Propane	74986	01-03-004-02	0.0000	0.0000	Propane	74986	01-03-006-02	1.6000	0.0000	0.0000 Propane
		Selenium	7782492	01-03-004-02	0.0007	0.0000	Selenium	7782492	01-03-006-02	0.0000	0.0000	0.0000 Selenium
		Toluene	108883	01-03-004-02	0.0062	0.0000	Toluene	108883	01-03-006-02	0.0034	0.0000	0.0000 Toluene
		Vanadium	7440622	01-03-004-02	0.0300	0.0000	Vanadium	7440622	01-03-006-02	0.0023	0.0000	0.0000 Vanadium
		Zinc	7440666	01-03-004-02	0.0200	0.0000	Zinc	7440666	01-03-006-02	0.0200	0.0000	0.0000 Zinc
		o-Xylene	95476	01-03-004-02	0.0001	0.0000	o-Xylene	95476	01-03-006-02	0.0000	0.0000	0.0000 o-Xylene
		CO2		PER GALLON	24.4500	0.0000	CO2		PER SCF	0.1202	0.0000	0.0000 Carbon Dioxide
		N2O		PER GALLON	0.00020000	0.0000	N2O		PER SCF	0.00000227	0.0000	0.0000 Nitrous Oxide
		CH4		PER GALLON	0.00097000	0.0000	CH4		PER SCF	0.000002266	0.0000	0.0000 Methane

Factors per DEP Air Quality Emission Factor Worksheet
 *** PM10 calculation (factor 5.17 x 0.041% by weight)= 0.212
 **** SOX calculation (factor 158.6 x 0.5% by weight)= 79.3

SMALL BOILERS

Small Boilers 2016

Fuel Oil

Formula: (Gallons/1000 x factor unit)/2000

Natural Gas

Formula: (mcf/1000 x factor unit)/2000

		Pollutant	CAS	SCC	Factor-Unit/ Lb per 1,000 Gal	Emissions	Pollutant	CAS	SCC	Factor-Unit/ Lb per MMCF	Emissions	Total Emission Gas+Oil	
							-						15,003
#2 Fuel	Use in Gallons	Ammonia	7664417	01-03-005-03	0.8000	0.0000	Ammonia	7664417	01-03-006-03	0.4900	0.0037	0.0037 Ammonia	
jan	-	CO*	630080	01-03-005-03	5.0000	0.0000	CO	630080	01-03-006-03	84.0000	0.6301	0.6301 CO	
feb	-	Lead	7439921	01-03-005-03	0.0004	0.0000	Lead	7439921	01-03-006-03	0.0005	0.0000	0.0000 Lead	
mar	-	NOX*	10102440	01-03-005-03	20.0000	0.0000	NOX	10102440	01-03-006-03	100.0000	0.7501	0.7501 NOX	
apr	-	PM10		01-03-005-03	1.0800	0.0000	PM10		01-03-006-03	3.0000	0.0225	0.0225 PM10	
may	-	PMS		01-03-005-03	11.2500	0.0000	PMS		01-03-006-03	0.0000	0.0000	0.0000 PMS	
jun	-	SOX*	7446095	01-03-005-03	28.7000	0.0000	SOX	7446095	01-03-006-03	0.6000	0.0045	0.0045 SOX	
jul	-	VOC		01-03-005-03	0.2000	0.0000	VOC		01-03-006-03	5.5000	0.0413	0.0413 VOC	
aug	-	Antimony	7440360	01-03-005-03	0.0053	0.0000	Antimony	7440360	01-03-006-03	0.0000	0.0000	0.0000 Antimony	
sept	-	Arsenic	7440382	01-03-005-03	0.0013	0.0000	Arsenic	7440382	01-03-006-03	0.0002	0.0000	0.0000 Arsenic	
oct	-	Barium	7440393	01-03-005-03	0.0026	0.0000	Barium	7440393	01-03-006-03	0.0044	0.0000	0.0000 Barium	
nov	-	Benzene	71432	01-03-005-03	0.0002	0.0000	Benzene	71432	01-03-006-03	0.0021	0.0000	0.0000 Benzene	
dec	-	Butane	106978	01-03-005-03	0.0000	0.0000	Butane	106978	01-03-006-03	2.1000	0.0158	0.0158 Butane	
Totals	-	Cadmium	7440439	01-03-005-03	0.0004	0.0000	Cadmium	7440439	01-03-006-03	0.0011	0.0000	0.0000 Cadmium	
		Chloride		01-03-005-03	0.3400	0.0000	Chloride		01-03-006-03	0.0000	0.0000	0.0000 Chloride	
		Chromium	7440473	01-03-005-03	0.0008	0.0000	Chromium	7440473	01-03-006-03	0.0014	0.0000	0.0000 Chromium	
		Copper	7440508	01-03-005-03	0.0018	0.0000	Copper	7440508	01-03-006-03	0.0009	0.0000	0.0000 Copper	
Nat. Gas	Use in MCF	Ethane	74840	01-03-005-03	0.0000	0.0000	Ethane	74840	01-03-006-03	3.1000	0.0233	0.0233 Ethane	
jan	2314.5	Ethyl Benzene	100414	01-03-005-03	0.0001	0.0000	Ethyl Benzene	100414	01-03-006-03	0.0000	0.0000	0.0000 Ethyl Benzene	
feb	2946.2	Fluoride	16984488	01-03-005-03	0.0300	0.0000	Fluoride	16984488	01-03-006-03	0.0000	0.0000	0.0000 Fluoride	
mar	1916.0	Formaldehyde	50000	01-03-005-03	0.0300	0.0000	Formaldehyde	50000	01-03-006-03	0.0700	0.0005	0.0005 Formaldehyde	
apr	1659.6	Hexane	110543	01-03-005-03	0.0000	0.0000	Hexane	110543	01-03-006-03	1.8000	0.0135	0.0135 Hexane	
may	751.0	Hexavalent Ch	18540299	01-03-005-03	0.0002	0.0000	Hexavalent Ch	18540299	01-03-006-03	0.0000	0.0000	0.0000 Hexavalent Chromium	
jun	272.8	Manganese	7439965	01-03-005-03	0.0030	0.0000	Manganese	7439965	01-03-006-03	0.0004	0.0000	0.0000 Manganese	
jul	77.5	Mercury	7439976	01-03-005-03	0.0001	0.0000	Mercury	7439976	01-03-006-03	0.0003	0.0000	0.0000 Mercury	
aug	75.7	Methane	74828	01-03-005-03	0.2100	0.0000	Methane	74828	01-03-006-03	2.3000	0.0173	0.0173 Methane	
sept	158.8	Methyl Chlorof	71556	01-03-005-03	0.0002	0.0000	Methyl Chlorof	71556	01-03-006-03	0.0000	0.0000	0.0000 Methyl Chloroform	
oct	416.7	Molybdenum	7439987	01-03-005-03	0.0008	0.0000	Molybdenum	7439987	01-03-006-03	0.0011	0.0000	0.0000 Molybdenum	
nov	1356.6	Napthalene	91203	01-03-005-03	0.0003	0.0000	Napthalene	91203	01-03-006-03	0.0006	0.0000	0.0000 Napthalene	
dec	3057.5	Nickel	7440020	01-03-005-03	0.0800	0.0000	Nickel	7440020	01-03-006-03	0.0021	0.0000	0.0000 Nickel	
Totals	15,002.9	Pentane	109660	01-03-005-03	0.0000	0.0000	Pentane	109660	01-03-006-03	2.6000	0.0195	0.0195 Pentane	
		Phosphorus	7723140	01-03-005-03	0.0095	0.0000	Phosphorus	7723140	01-03-006-03	0.0000	0.0000	0.0000 Phosphorus	
		Propane	74986	01-03-005-03	0.0000	0.0000	Propane	74986	01-03-006-03	1.6000	0.0120	0.0120 Propane	
		Selenium	7782492	01-03-005-03	0.0007	0.0000	Selenium	7782492	01-03-006-03	0.0000	0.0000	0.0000 Selenium	
		Toluene	108883	01-03-005-03	0.0062	0.0000	Toluene	108883	01-03-006-03	0.0034	0.0000	0.0000 Toluene	
		Vanadium	7440622	01-03-005-03	0.0300	0.0000	Vanadium	7440622	01-03-006-03	0.0023	0.0000	0.0000 Vanadium	
		Zinc	7440666	01-03-005-03	0.0200	0.0000	Zinc	7440666	01-03-006-03	0.0200	0.0002	0.0002 Zinc	
		o-Xylene	95476	01-03-005-03	0.0000	0.0000	o-Xylene	95476	01-03-006-03	0.0000	0.0000	0.0000 o-Xylene	
		CO2			22.5100	0.0000	CO2			0.1202	901.6743	924.1843 Carbon Dioxide	
		N2O			0.00018000	0.0000	N2O			0.000000227	0.0017	0.0017 Nitrous Oxide	
		CH4			0.00090000	0.0000	CH4			0.000002266	0.0170	0.0170 Methane	

*Factors per DEP Air Quality Emission Factor Workheet
 *** PM10 calculation (factor 5.17 x 0.041% by weight)= 0.21
 **** SOX calculation (factor 143.6 x 0.2% by weight)= 28.72

Boiler#1A	2016	Fuel Oil					Natural Gas					Total Emission Gas+Oil
		Pollutant	CAS	SCC	Factor-Unit/ Lb per 1,000 Gal	Emissions Tons	Pollutant	CAS	SCC	Factor-Unit/ Lb per MCF	Emissions Tons	
					3523					37449		
#2 Fuel	Use in Gallons	Ammonia	7664417	01-03-004-02	0.8000	0.0014	Ammonia	7664417	01-03-006-02	0.4900	0.0092	0.0106 Ammonia
jan	-	CO*	630080	01-03-004-02	5.0000	0.0088	CO*	630080	01-03-006-02	84.0000	1.5729	1.5817 CO*
feb	2,632	Lead	7439921	01-03-004-02	0.0042	0.0000	Lead	7439921	01-03-006-02	0.0005	0.0000	0.0000 Lead
mar	-	NOX ¹	10102440	01-03-005-02	20.0000	0.0352	NOX*	10102440	01-03-006-02	36.1000	0.6760	0.7112 NOX*
apr	891	PM10		01-03-004-02	5.1700	0.0091	PM10		01-03-006-02	3.0000	0.0562	0.0653 PM10
may	-	PMS		01-03-004-02	11.2500	0.0198	PMS		01-03-006-02	0.0000	0.0000	0.0198 PMS
jun	-	SOX ¹	7446095	01-03-005-02	28.4000	0.0500	SOX*	7446095	01-03-006-02	0.6000	0.0112	0.0613 SOX*
jul	-	VOC		01-03-004-02	1.1300	0.0020	VOC		01-03-006-02	5.5000	0.1030	0.1050 VOC
aug	-	Antimony	7440360	01-03-004-02	0.0053	0.0000	Antimony	7440360	01-03-006-02	0.0000	0.0000	0.0000 Antimony
sept	-	Arsenic	7440382	01-03-004-02	0.0013	0.0000	Arsenic	7440382	01-03-006-02	0.0002	0.0000	0.0000 Arsenic
oct	-	Barium	7440393	01-03-004-02	0.0026	0.0000	Barium	7440393	01-03-006-02	0.0044	0.0001	0.0001 Barium
nov	-	Benzene	71432	01-03-004-02	0.0002	0.0000	Benzene	71432	01-03-006-02	0.0021	0.0000	0.0000 Benzene
dec	-	Butane	106978	01-03-004-02	0.0000	0.0000	Butane	106978	01-03-006-02	2.1000	0.0393	0.0393 Butane
Totals	3,523	Cadmium	7440439	01-03-004-02	0.0004	0.0000	Cadmium	7440439	01-03-006-02	0.0011	0.0000	0.0000 Cadmium
		Chloride		01-03-004-02	0.3400	0.0006	Chloride		01-03-006-02	0.0000	0.0000	0.0006 Chloride
		Chromium	7440473	01-03-004-02	0.0008	0.0000	Chromium	7440473	01-03-006-02	0.0014	0.0000	0.0000 Chromium
		Copper	7440508	01-03-004-02	0.0018	0.0000	Copper	7440508	01-03-006-02	0.0009	0.0000	0.0000 Copper
Nat. Gas	Use in MCF	Ethane	74840	01-03-004-02	0.0000	0.0000	Ethane	74840	01-03-006-02	3.1000	0.0580	0.0580 Ethane
jan	1,032	Ethyl Benzene	100414	01-03-004-02	0.0001	0.0000	Ethyl Benzene	100414	01-03-006-02	0.0000	0.0000	0.0000 Ethyl Benzene
feb	2,159	Fluoride	16984488	01-03-004-02	0.0300	0.0001	Fluoride	16984488	01-03-006-02	0.0000	0.0000	0.0001 Fluoride
mar	5,199	Formaldehyde	50000	01-03-004-02	0.0300	0.0001	Formaldehyde	50000	01-03-006-02	0.0700	0.0013	0.0014 Formaldehyde
apr	2,806	Hexane	110543	01-03-004-02	0.0000	0.0000	Hexane	110543	01-03-006-02	1.8000	0.0337	0.0337 Hexane
may	5,386	Hexavalent Chi	18540299	01-03-004-02	0.0002	0.0000	Hexavalent Chi	18540299	01-03-006-02	0.0000	0.0000	0.0000 Hexavalent Chromium
jun	2,924	Manganese	7439965	01-03-004-02	0.0030	0.0000	Manganese	7439965	01-03-006-02	0.0004	0.0000	0.0000 Manganese
jul	3,620	Mercury	7439976	01-03-004-02	0.0001	0.0000	Mercury	7439976	01-03-006-02	0.0003	0.0000	0.0000 Mercury
aug	3,008	Methane	74828	01-03-004-02	0.4700	0.0008	Methane	74828	01-03-006-02	2.3000	0.0431	0.0439 Methane
sept	2,190	Methyl Chlorof	71556	01-03-004-02	0.0002	0.0000	Methyl Chlorof	71556	01-03-006-02	0.0000	0.0000	0.0000 Methyl Chloroform
oct	4,157	Molybdenum	7439987	01-03-004-02	0.0008	0.0000	Molybdenum	7439987	01-03-006-02	0.0011	0.0000	0.0000 Molybdenum
nov	368	Napthalene	91203	01-03-004-02	0.0011	0.0000	Napthalene	91203	01-03-006-02	0.0006	0.0000	0.0000 Napthalene
dec	4,600	Nickel	7440020	01-03-004-02	0.0800	0.0001	Nickel	7440020	01-03-006-02	0.0021	0.0000	0.0002 Nickel
Totals	37,449	Pentane	109660	01-03-004-02	0.0000	0.0000	Pentane	109660	01-03-006-02	2.6000	0.0487	0.0487 Pentane
		Phosphorus	7723140	01-03-004-02	0.0095	0.0000	Phosphorus	7723140	01-03-006-02	0.0000	0.0000	0.0000 Phosphorus
		Propane	74986	01-03-004-02	0.0000	0.0000	Propane	74986	01-03-006-02	1.6000	0.0300	0.0300 Propane
		Selenium	7782492	01-03-004-02	0.0007	0.0000	Selenium	7782492	01-03-006-02	0.0000	0.0000	0.0000 Selenium
		Toluene	108883	01-03-004-02	0.0062	0.0000	Toluene	108883	01-03-006-02	0.0034	0.0001	0.0001 Toluene
		Vanadium	7440622	01-03-004-02	0.0300	0.0001	Vanadium	7440622	01-03-006-02	0.0023	0.0000	0.0001 Vanadium
		Zinc	7440666	01-03-004-02	0.0200	0.0000	Zinc	7440666	01-03-006-02	0.0200	0.0004	0.0004 Zinc
		o-Xylene	95476	01-03-004-02	0.0001	0.0000	o-Xylene	95476	01-03-006-02	0.0000	0.0000	0.0000 o-Xylene
		CO2 ¹		1-03-005-02	22509.0000	39.6496	CO2			120.0000	2246.9400	2286.5896 Carbon Dioxide
		N2O ²			0.1764	0.0003	N2O			0.00002000	0.0004	0.0007 Nitrous Oxide
		CH4 ²			0.9040	0.0016	CH4			0.002	0.0374	0.0390 Methane

*Factor per Mfg. Spec. & Testing, Remaining Factors per DEP Air Quality Emission Factor Worksheet
 1Factor per AP-42 Table 1.3-1

Boiler#1B	2016	Fuel Oil				Emissions	Natural Gas				Total Emission Gas+Oil	
		Pollutant	CAS	SCC	Factor-Unit/ Lb per 1,000 Gal		Pollutant	CAS	SCC	Factor-Unit/ per MMCF		Emissions
					6736					37206		
#2 Fuel	Use in Gallons	Ammonia	7664417	01-03-004-02	0.8000	0.0027	Ammonia	7664417	01-03-006-02	0.4900	0.0091	0.0118 Ammonia
jan	-	CO*	630080	01-03-004-02	5.0000	0.0168	CO	630080	01-03-006-02	84.0000	1.5627	1.5795 CO*
feb	5,898	Lead	7439921	01-03-004-02	0.0042	0.0000	Lead	7439921	01-03-006-02	0.0005	0.0000	0.0000 Lead
mar	-	NOX ¹	10102440	01-03-005-02	20.0000	0.0674	NOX	10102440	01-03-006-02	36.1000	0.6716	0.7389 NOX*
apr	838	PM10		01-03-004-02	5.1700	0.0174	PM10		01-03-006-02	3.0000	0.0558	0.0732 PM10
may	-	PM5		01-03-004-02	11.2500	0.0379	PM5		01-03-006-02	0.0000	0.0000	0.0379 PM5
jun	-	SOX ¹	7446095	01-03-005-02	28.4000	0.0957	SOX	7446095	01-03-006-02	0.6000	0.0112	0.1068 SOX*
jul	-	VOC		01-03-004-02	1.1300	0.0038	VOC		01-03-006-02	5.5000	0.1023	0.1061 VOC
aug	-	Antimony	7440360	01-03-004-02	0.0053	0.0000	Antimony	7440360	01-03-006-02	0.0000	0.0000	0.0000 Antimony
sept	-	Arsenic	7440382	01-03-004-02	0.0013	0.0000	Arsenic	7440382	01-03-006-02	0.0002	0.0000	0.0000 Arsenic
oct	-	Barium	7440393	01-03-004-02	0.0026	0.0000	Barium	7440393	01-03-006-02	0.0044	0.0001	0.0001 Barium
nov	-	Benzene	71432	01-03-004-02	0.0002	0.0000	Benzene	71432	01-03-006-02	0.0021	0.0000	0.0000 Benzene
dec	-	Butane	106978	01-03-004-02	0.0000	0.0000	Butane	106978	01-03-006-02	2.1000	0.0391	0.0391 Butane
Totals	6,736	Cadmium	7440439	01-03-004-02	0.0004	0.0000	Cadmium	7440439	01-03-006-02	0.0011	0.0000	0.0000 Cadmium
		Chloride		01-03-004-02	0.3400	0.0011	Chloride		01-03-006-02	0.0000	0.0000	0.0011 Chloride
		Chromium	7440473	01-03-004-02	0.0008	0.0000	Chromium	7440473	01-03-006-02	0.0014	0.0000	0.0000 Chromium
		Copper	7440508	01-03-004-02	0.0018	0.0000	Copper	7440508	01-03-006-02	0.0009	0.0000	0.0000 Copper
Nat. Gas	Use in MCF	Ethane	74840	01-03-004-02	0.0000	0.0000	Ethane	74840	01-03-006-02	3.1000	0.0577	0.0577 Ethane
jan	10,488	Ethyl Benzene	100414	01-03-004-02	0.0001	0.0000	Ethyl Benzene	100414	01-03-006-02	0.0000	0.0000	0.0000 Ethyl Benzene
feb	7,506	Fluoride	16984488	01-03-004-02	0.0300	0.0001	Fluoride	16984488	01-03-006-02	0.0000	0.0000	0.0001 Fluoride
mar	3,030	Formaldehyde	50000	01-03-004-02	0.0300	0.0001	Formaldehyde	50000	01-03-006-02	0.0700	0.0013	0.0014 Formaldehyde
apr	4,379	Hexane	110543	01-03-004-02	0.0000	0.0000	Hexane	110543	01-03-006-02	1.8000	0.0335	0.0335 Hexane
may	-	Hexavalent Chi	18540299	01-03-004-02	0.0002	0.0000	Hexavalent Chi	18540299	01-03-006-02	0.0000	0.0000	0.0000 Hexavalent Chrom
jun	-	Manganese	7439965	01-03-004-02	0.0030	0.0000	Manganese	7439965	01-03-006-02	0.0004	0.0000	0.0000 Manganese
jul	-	Mercury	7439976	01-03-004-02	0.0001	0.0000	Mercury	7439976	01-03-006-02	0.0003	0.0000	0.0000 Mercury
aug	-	Methane	74828	01-03-004-02	0.4700	0.0016	Methane	74828	01-03-006-02	2.3000	0.0428	0.0444 Methane
sept	675	Methyl Chlorof	71556	01-03-004-02	0.0002	0.0000	Methyl Chlorof	71556	01-03-006-02	0.0000	0.0000	0.0000 Methyl Chloroform
oct	-	Molybdenum	7439987	01-03-004-02	0.0008	0.0000	Molybdenum	7439987	01-03-006-02	0.0011	0.0000	0.0000 Molybdenum
nov	6,438	Napthalene	91203	01-03-004-02	0.0011	0.0000	Napthalene	91203	01-03-006-02	0.0006	0.0000	0.0000 Napthalene
dec	4,690	Nickel	7440020	01-03-004-02	0.0800	0.0003	Nickel	7440020	01-03-006-02	0.0021	0.0000	0.0003 Nickel
Totals	37,206	Pentane	109660	01-03-004-02	0.0000	0.0000	Pentane	109660	01-03-006-02	2.6000	0.0484	0.0484 Pentane
		Phosphorus	7723140	01-03-004-02	0.0095	0.0000	Phosphorus	7723140	01-03-006-02	0.0000	0.0000	0.0000 Phosphorus
		Propane	74986	01-03-004-02	0.0000	0.0000	Propane	74986	01-03-006-02	1.6000	0.0298	0.0298 Propane
		Selenium	7782492	01-03-004-02	0.0007	0.0000	Selenium	7782492	01-03-006-02	0.0000	0.0000	0.0000 Selenium
		Toluene	108883	01-03-004-02	0.0062	0.0000	Toluene	108883	01-03-006-02	0.0034	0.0001	0.0001 Toluene
		Vanadium	7440622	01-03-004-02	0.0300	0.0001	Vanadium	7440622	01-03-006-02	0.0023	0.0000	0.0001 Vanadium
		Zinc	7440666	01-03-004-02	0.0200	0.0001	Zinc	7440666	01-03-006-02	0.0200	0.0004	0.0004 Zinc
		o-Xylene	95476	01-03-004-02	0.0001	0.0000	o-Xylene	95476	01-03-006-02	0.0000	0.0000	0.0000 o-Xylene
		CO2		1-03-005-02	22509.0000	75.8103	CO2			120.0000	2232.3600	2,308.1703 Carbon Dioxide
		N2O			0.1764	0.0006	N2O			0.00002000	0.0004	0.0010 Nitrous Oxide
		CH4			0.9040	0.0030	CH4			0.002	0.0372	0.0403 Methane

*Factor per Mfg. Spec. & Testing, Remaining Factors per DEP Air Quality Emission Factor Worksheet

York Engine Driven Chiller

2016 Date	Siemens Meter Reading in Cubic Feet	Burn Rate 325.3 cu.Ft/hr. Gas Use to date Maximum gas usage permitted 13,000,000 cu.ft.	Gas total per month in MCF	Engine Meter	Hours Per Day	Cumulative Run Time in hours Maximum 3,800 hrs. per year	RatePerHour nox	RatePerHour	RatePerHour sox	RatePerHour	RatePerHour toc
							.34 lbs Perigrine test data 2005	co 0.645lbs RTP submittal 2003	0.002lbs Mfg Data RTP submittal 2003	pm10- 0.000 lbs. mfg. Data RTP Submittal 2003	0.238 lbs. Mfg. Data RTP submittal 2003
1/1/15	No Data	-		4181		0	0	0	0	0	0
1/2/15	No Data	-		4181	0	0	0	0	0	0	0
1/3/15	No Data	-		4181	0	0	0	0	0	0	0
1/4/15	No Data	-		4181	0	0	0	0	0	0	0
1/5/15	No Data	-		4181	0	0	0	0	0	0	0
1/6/15	No Data	-		4181	0	0	0	0	0	0	0
1/7/15	No Data	-		4181	0	0	0	0	0	0	0
1/8/15	No Data	-		4181	0	0	0	0	0	0	0
1/9/15	No Data	-		4181	0	0	0	0	0	0	0
1/10/15	No Data	-		4181	0	0	0	0	0	0	0
1/11/15	No Data	-		4181	0	0	0	0	0	0	0
1/12/15	No Data	-		4181	0	0	0	0	0	0	0
1/13/15	No Data	-		4181	0	0	0	0	0	0	0
1/14/15	No Data	-		4181	0	0	0	0	0	0	0
1/15/15	No Data	-		4181	0	0	0	0	0	0	0
1/16/15	No Data	-		4181	0	0	0	0	0	0	0
1/17/15	No Data	-		4181	0	0	0	0	0	0	0
1/18/15	No Data	-		4181	0	0	0	0	0	0	0
1/19/15	No Data	-		4181	0	0	0	0	0	0	0
1/20/15	No Data	-		4181	0	0	0	0	0	0	0
1/21/15	No Data	-		4181	0	0	0	0	0	0	0
1/22/15	No Data	-		4181	0	0	0	0	0	0	0
1/23/15	No Data	-		4181	0	0	0	0	0	0	0
1/24/15	No Data	-		4181	0	0	0	0	0	0	0
1/25/15	No Data	-		4181	0	0	0	0	0	0	0
1/26/15	No Data	-		4181	0	0	0	0	0	0	0
1/27/15	No Data	-		4181	0	0	0	0	0	0	0
1/28/15	No Data	-		4181	0	0	0	0	0	0	0
1/29/15	No Data	-		4181	0	0	0	0	0	0	0
1/30/15	No Data	-		4181	0	0	0	0	0	0	0
1/31/15	No Data	-	0.0	4181	0	0	0	0	0	0	0
2/1/15	No Data	-		4181	0	0	0	0	0	0	0
2/2/15	No Data	-		4181	0	0	0	0	0	0	0
2/3/15	No Data	-		4181	0	0	0	0	0	0	0
2/4/15	No Data	-		4181	0	0	0	0	0	0	0
2/5/15	No Data	-		4181	0	0	0	0	0	0	0
2/6/15	No Data	-		4181	0	0	0	0	0	0	0
2/7/15	No Data	-		4181	0	0	0	0	0	0	0
2/8/15	No Data	-		4181	0	0	0	0	0	0	0
2/9/15	No Data	-		4181	0	0	0	0	0	0	0
2/10/15	No Data	-		4181	0	0	0	0	0	0	0
2/11/15	No Data	-		4181	0	0	0	0	0	0	0
2/12/15	No Data	-		4181	0	0	0	0	0	0	0
2/13/15	No Data	-		4181	0	0	0	0	0	0	0

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4/6/15	No Data	-		4181	0	0	0	0	0	0	0	0
4/7/15	No Data	-		4181	0	0	0	0	0	0	0	0
4/8/15	No Data	-		4181	0	0	0	0	0	0	0	0
4/9/15	No Data	-		4181	0	0	0	0	0	0	0	0
4/10/15	No Data	-		4181	0	0	0	0	0	0	0	0
4/11/15	No Data	-		4181	0	0	0	0	0	0	0	0
4/12/15	No Data	-		4181	0	0	0	0	0	0	0	0
4/13/15	No Data	-		4181	0	0	0	0	0	0	0	0
4/14/15	No Data	-		4181	0	0	0	0	0	0	0	0
4/15/15	No Data	-		4181	0	0	0	0	0	0	0	0
4/16/15	No Data	-		4181	0	0	0	0	0	0	0	0
4/17/15	No Data	-		4181	0	0	0	0	0	0	0	0
4/18/15	No Data	-		4181	0	0	0	0	0	0	0	0
4/19/15	No Data	-		4181	0	0	0	0	0	0	0	0
4/20/15	No Data	-		4181	0	0	0	0	0	0	0	0
4/21/15	No Data	-		4181	0	0	0	0	0	0	0	0
4/22/15	No Data	-		4181	0	0	0	0	0	0	0	0
4/23/15	No Data	-		4181	0	0	0	0	0	0	0	0
4/24/15	No Data	-		4181	0	0	0	0	0	0	0	0
4/25/15	No Data	-		4181	0	0	0	0	0	0	0	0
4/26/15	No Data	-		4181	0	0	0	0	0	0	0	0
4/27/15	No Data	-		4181	0	0	0	0	0	0	0	0
4/28/15	No Data	-		4181	0	0	0	0	0	0	0	0
4/29/15	No Data	-		4181	0	0	0	0	0	0	0	0
4/30/15	No Data	-	0.0	4181	0	0	0	0	0	0	0	0
5/1/15	No Data	-		4181	0	0	0	0	0	0	0	0
5/2/15	No Data	-		4181	0	0	0	0	0	0	0	0
5/3/15	No Data	-		4181	0	0	0	0	0	0	0	0
5/4/15	No Data	-		4181	0	0	0	0	0	0	0	0
5/5/15	No Data	-		4181	0	0	0	0	0	0	0	0
5/6/15	No Data	-		4181	0	0	0	0	0	0	0	0
5/7/15	No Data	-		4181	0	0	0	0	0	0	0	0
5/8/15	No Data	-		4181	0	0	0	0	0	0	0	0
5/9/15	No Data	-		4181	0	0	0	0	0	0	0	0
5/10/15	No Data	-		4181	0	0	0	0	0	0	0	0
5/11/15	No Data	-		4181	0	0	0	0	0	0	0	0
5/12/15	No Data	-		4181	0	0	0	0	0	0	0	0
5/13/15	No Data	-		4181	0	0	0	0	0	0	0	0
5/14/15	No Data	-		4181	0	0	0	0	0	0	0	0
5/15/15	No Data	325		4182	1	1	0.34	0.645	0.002	0	0.238	0
5/16/15	No Data	-		4182	0	1	0	0	0	0	0	0
5/17/15	No Data	-		4182	0	1	0	0	0	0	0	0
5/18/15	No Data	-		4182	0	1	0	0	0	0	0	0
5/19/15	No Data	-		4182	0	1	0	0	0	0	0	0
5/20/15	No Data	-		4182	0	1	0	0	0	0	0	0
5/21/15	No Data	-		4182	0	1	0	0	0	0	0	0
5/22/15	No Data	-		4182	0	1	0	0	0	0	0	0
5/23/15	No Data	-		4182	0	1	0	0	0	0	0	0
5/24/15	No Data	-		4182	0	1	0	0	0	0	0	0
5/25/15	No Data	-		4182	0	1	0	0	0	0	0	0
5/26/15	No Data	-		4182	0	1	0	0	0	0	0	0

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5/27/15	No Data	-		4182	0	1		0	0	0	0	0
5/28/15	No Data	-		4182	0	1		0	0	0	0	0
5/29/15	No Data	-		4182	0	1		0	0	0	0	0
5/30/15	No Data	-		4182	0	1		0	0	0	0	0
5/31/15	No Data	-	0.3	4182	0	1		0	0	0	0	0
6/1/15	No Data	-		4182	0	1		0	0	0	0	0
6/2/15	No Data	-		4182	0	1		0	0	0	0	0
6/3/15	No Data	-		4182	0	1		0	0	0	0	0
6/4/15	No Data	-		4182	0	1		0	0	0	0	0
6/5/15	No Data	-		4182	0	1		0	0	0	0	0
6/6/15	No Data	-		4182	0	1		0	0	0	0	0
6/7/15	No Data	-		4182	0	1		0	0	0	0	0
6/8/15	No Data	-		4182	0	1		0	0	0	0	0
6/9/15	No Data	-		4182	0	1		0	0	0	0	0
6/10/15	No Data	-		4182	0	1		0	0	0	0	0
6/11/15	No Data	-		4182	0	1		0	0	0	0	0
6/12/15	No Data	-		4182	0	1		0	0	0	0	0
6/13/15	No Data	-		4182	0	1		0	0	0	0	0
6/14/15	No Data	-		4182	0	1		0	0	0	0	0
6/15/15	No Data	-		4182	0	1		0	0	0	0	0
6/16/15	No Data	-		4182	0	1		0	0	0	0	0
6/17/15	No Data	-		4182	0	1		0	0	0	0	0
6/18/15	No Data	-		4182	0	1		0	0	0	0	0
6/19/15	No Data	-		4182	0	1		0	0	0	0	0
6/20/15	No Data	-		4182	0	1		0	0	0	0	0
6/21/15	No Data	-		4182	0	1		0	0	0	0	0
6/22/15	No Data	-		4182	0	1		0	0	0	0	0
6/23/15	No Data	-		4182	0	1		0	0	0	0	0
6/24/15	No Data	-		4182	0	1		0	0	0	0	0
6/25/15	No Data	-		4182	0	1		0	0	0	0	0
6/26/15	No Data	-		4182	0	1		0	0	0	0	0
6/27/15	No Data	-		4182	0	1		0	0	0	0	0
6/28/15	No Data	-		4182	0	1		0	0	0	0	0
6/29/15	No Data	-		4182	0	1		0	0	0	0	0
6/30/15	No Data	-	0.0	4182	0	1		0	0	0	0	0
7/1/15	No Data	-		4182	0	1		0	0	0	0	0
7/2/15	No Data	-		4182	0	1		0	0	0	0	0
7/3/15	No Data	-		4182	0	1		0	0	0	0	0
7/4/15	No Data	-		4182	0	1		0	0	0	0	0
7/5/15	No Data	-		4182	0	1		0	0	0	0	0
7/6/15	No Data	-		4182	0	1		0	0	0	0	0
7/7/15	No Data	-		4182	0	1		0	0	0	0	0
7/8/15	No Data	-		4182	0	1		0	0	0	0	0
7/9/15	No Data	-		4182	0	1		0	0	0	0	0
7/10/15	No Data	5,205		4198	16	17		5.44	10.32	0.032	0	3.808
7/11/15	No Data	3,904		4210	12	29		4.08	7.74	0.024	0	2.856
7/12/15	No Data	-		4210	0	29		0	0	0	0	0
7/13/15	No Data	-		4210	0	29		0	0	0	0	0
7/14/15	No Data	-		4210	0	29		0	0	0	0	0
7/15/15	No Data	-		4210	0	29		0	0	0	0	0
7/16/15	No Data	-		4210	0	29		0	0	0	0	0

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7/17/15	No Data	-		4223	13	42	4.42	8.385	0.026	0	3.094
7/18/15	No Data	-		4234	11	53	3.74	7.095	0.022	0	2.618
7/19/15	No Data	-		4241	7	60	2.38	4.515	0.014	0	1.666
7/20/15	No Data	-		4249	8	68	2.72	5.16	0.016	0	1.904
7/21/15	No Data	-		4255	6	74	2.04	3.87	0.012	0	1.428
7/22/15	No Data	-		4255	0	74	0	0	0	0	0
7/23/15	No Data	-		4255	0	74	0	0	0	0	0
7/24/15	No Data	-		4262	7	81	2.38	4.515	0.014	0	1.666
7/25/15	No Data	-		4262	0	81	0	0	0	0	0
7/26/15	No Data	-		4297	35	116	11.9	22.575	0.07	0	8.33
7/27/15	No Data	-		4311	14	130	4.76	9.03	0.028	0	3.332
7/28/15	No Data	-		4331	20	150	6.8	12.9	0.04	0	4.76
7/29/15	No Data	-		4336	5	155	1.7	3.225	0.01	0	1.19
7/30/15	331754	-		4348	12	167	4.08	7.74	0.024	0	2.856
7/31/15	335007	3,253	12.4	4358	10	177	3.4	6.45	0.02	0	2.38
8/1/15	337103	2,096		4369	11	188	3.74	7.095	0.022	0	2.618
8/2/15	340488	3,385		4378	9	197	3.06	5.805	0.018	0	2.142
8/3/15	344023	3,535		4394	16	213	5.44	10.32	0.032	0	3.808
8/4/15	344869	846		4405	11	224	3.74	7.095	0.022	0	2.618
8/5/15	344869	-		4407	2	226	0.68	1.29	0.004	0	0.476
8/6/15	344869	-		4407	0	226	0	0	0	0	0
8/7/15	344869	-		4407	0	226	0	0	0	0	0
8/8/15	344869	-		4407	0	226	0	0	0	0	0
8/9/15	344869	-		4407	0	226	0	0	0	0	0
8/10/15	344869	-		4407	0	226	0	0	0	0	0
8/11/15	344869	-		4407	0	226	0	0	0	0	0
8/12/15	347839	2,970		4407	0	226	0	0	0	0	0
8/13/15	353182	5,343		4418	11	237	3.74	7.095	0.022	0	2.618
8/14/15	360252	7,070		4442	24	261	8.16	15.48	0.048	0	5.712
8/15/15	367141	6,889		4466	24	285	8.16	15.48	0.048	0	5.712
8/16/15	373924	6,783		4490	24	309	8.16	15.48	0.048	0	5.712
8/17/15	379885	5,961		4510	20	329	6.8	12.9	0.04	0	4.76
8/18/15	386760	6,875		4534	24	353	8.16	15.48	0.048	0	5.712
8/19/15	392327	5,567		4557	23	376	7.82	14.835	0.046	0	5.474
8/20/15	397011	4,684		4580	23	399	7.82	14.835	0.046	0	5.474
8/21/15	397445	434		4597	17	416	5.78	10.965	0.034	0	4.046
8/22/15	397445	-		4597	0	416	0	0	0	0	0
8/23/15	397445	-		4597	0	416	0	0	0	0	0
8/24/15	397445	-		4597	0	416	0	0	0	0	0
8/25/15	397445	-		4597	0	416	0	0	0	0	0
8/26/15	397445	-		4597	0	416	0	0	0	0	0
8/27/15	399639	2,194		4597	0	416	0	0	0	0	0
8/28/15	404585	4,946		4617	20	436	6.8	12.9	0.04	0	4.76
8/29/15	408665	4,080		4641	24	460	8.16	15.48	0.048	0	5.712
8/30/15	412795	4,130		4665	24	484	8.16	15.48	0.048	0	5.712
8/31/15	417437	4,642	82.4	4688	23	507	7.82	14.835	0.046	0	5.474
9/1/15	419564	2,127		4701	13	520	4.42	8.385	0.026	0	3.094
9/2/15	422893	3,329		4712	11	531	3.74	7.095	0.022	0	2.618
9/3/15	425862	2,969		4730	18	549	6.12	11.61	0.036	0	4.284
9/4/15	425862	-		4741	11	560	3.74	7.095	0.022	0	2.618
9/5/15	425862	-		4741	0	560	0	0	0	0	0

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9/6/15	425862	-		4741	0	560	0	0	0	0	0
9/7/15	425862	-		4741	0	560	0	0	0	0	0
9/8/15	427708	1,846		4741	0	560	0	0	0	0	0
9/9/15	430235	2,527		4751	10	570	3.4	6.45	0.02	0	2.38
9/10/15	434482	4,247		4764	13	583	4.42	8.385	0.026	0	3.094
9/11/15	439993	5,511		4788	24	607	8.16	15.48	0.048	0	5.712
9/12/15	445297	5,304		4812	24	631	8.16	15.48	0.048	0	5.712
9/13/15	447305	2,008		4836	24	655	8.16	15.48	0.048	0	5.712
9/14/15	448443	1,138		4838	2	657	0.68	1.29	0.004	0	0.476
9/15/15	450562	2,119		4845	7	664	2.38	4.515	0.014	0	1.666
9/16/15	452982	2,420		4855	10	674	3.4	6.45	0.02	0	2.38
9/17/15	453406	424		4867	12	686	4.08	7.74	0.024	0	2.856
9/18/15	453406	-		4870	3	689	1.02	1.935	0.006	0	0.714
9/19/15	453406	-		4870	0	689	0	0	0	0	0
9/20/15	453406	-		4870	0	689	0	0	0	0	0
9/21/15	453406	-		4870	0	689	0	0	0	0	0
9/22/15	453406	2,300		4870	0	689	0	0	0	0	0
9/23/15	453406	-		4870	0	689	0	0	0	0	0
9/24/15	453406	-		4870	0	689	0	0	0	0	0
9/25/15	453406	-		4870	0	689	0	0	0	0	0
9/26/15	453406	-		4870	0	689	0	0	0	0	0
9/27/15	453406	-		4870	0	689	0	0	0	0	0
9/28/15	453406	-		4870	0	689	0	0	0	0	0
9/29/15	453406	-		4870	0	689	0	0	0	0	0
9/30/15	453406	-	38.3	4870	0	689	0	0	0	0	0
10/1/15	453406	-		4870	0	689	0	0	0	0	0
10/2/15	453406	-		4870	0	689	0	0	0	0	0
10/3/15	453406	-		4870	0	689	0	0	0	0	0
10/4/15	453406	-		4870	0	689	0	0	0	0	0
10/5/15	453406	-		4870	0	689	0	0	0	0	0
10/6/15	453406	-		4870	0	689	0	0	0	0	0
10/7/15	453406	-		4870	0	689	0	0	0	0	0
10/8/15	453406	-		4870	0	689	0	0	0	0	0
10/9/15	453406	-		4870	0	689	0	0	0	0	0
10/10/15	453406	-		4870	0	689	0	0	0	0	0
10/11/15	453406	-		4870	0	689	0	0	0	0	0
10/12/15	453406	-		4870	0	689	0	0	0	0	0
10/13/15	453406	-		4870	0	689	0	0	0	0	0
10/14/15	453406	-		4870	0	689	0	0	0	0	0
10/15/15	453406	-		4870	0	689	0	0	0	0	0
10/16/15	453406	-		4870	0	689	0	0	0	0	0
10/17/15	453406	-		4870	0	689	0	0	0	0	0
10/18/15	453406	-		4870	0	689	0	0	0	0	0
10/19/15	453406	-		4870	0	689	0	0	0	0	0
10/20/15	453406	-		4870	0	689	0	0	0	0	0
10/21/15	453406	-		4870	0	689	0	0	0	0	0
10/22/15	453406	-		4870	0	689	0	0	0	0	0
10/23/15	453406	-		4870	0	689	0	0	0	0	0
10/24/15	453406	-		4870	0	689	0	0	0	0	0
10/25/15	453406	-		4870	0	689	0	0	0	0	0
10/26/15	453406	-		4870	0	689	0	0	0	0	0

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10/27/15	453406	-		4870	0	689	0	0	0	0	0
10/28/15	453406	-		4870	0	689	0	0	0	0	0
10/29/15	453406	-		4870	0	689	0	0	0	0	0
10/30/15	453406	-		4870	0	689	0	0	0	0	0
10/31/15	453406	-	0.0	4870	0	689	0	0	0	0	0
11/1/15	453406	-		4870	0	689	0	0	0	0	0
11/2/15	453406	-		4870	0	689	0	0	0	0	0
11/3/15	453406	-		4870	0	689	0	0	0	0	0
11/4/15	453406	-		4870	0	689	0	0	0	0	0
11/5/15	453406	-		4870	0	689	0	0	0	0	0
11/6/15	453406	-		4870	0	689	0	0	0	0	0
11/7/15	453406	-		4870	0	689	0	0	0	0	0
11/8/15	453406	-		4870	0	689	0	0	0	0	0
11/9/15	453406	-		4870	0	689	0	0	0	0	0
11/10/15	453406	-		4870	0	689	0	0	0	0	0
11/11/15	453406	-		4870	0	689	0	0	0	0	0
11/12/15	453406	-		4870	0	689	0	0	0	0	0
11/13/15	453406	-		4870	0	689	0	0	0	0	0
11/14/15	453406	-		4870	0	689	0	0	0	0	0
11/15/15	453406	-		4870	0	689	0	0	0	0	0
11/16/15	453406	-		4870	0	689	0	0	0	0	0
11/17/15	453406	-		4870	0	689	0	0	0	0	0
11/18/15	453406	-		4870	0	689	0	0	0	0	0
11/19/15	453406	-		4870	0	689	0	0	0	0	0
11/20/15	453406	-		4870	0	689	0	0	0	0	0
11/21/15	453406	-		4870	0	689	0	0	0	0	0
11/22/15	453406	-		4870	0	689	0	0	0	0	0
11/23/15	453406	-		4870	0	689	0	0	0	0	0
11/24/15	453406	-		4870	0	689	0	0	0	0	0
11/25/15	453406	-		4870	0	689	0	0	0	0	0
11/26/15	453406	-		4870	0	689	0	0	0	0	0
11/27/15	453406	-		4870	0	689	0	0	0	0	0
11/28/15	453406	-		4870	0	689	0	0	0	0	0
11/29/15	453406	-		4870	0	689	0	0	0	0	0
11/30/15	453406	-	0.0	4870	0	689	0	0	0	0	0
12/1/15	453406	-		4870	0	689	0	0	0	0	0
12/2/15	453406	-		4870	0	689	0	0	0	0	0
12/3/15	453406	-		4870	0	689	0	0	0	0	0
12/4/15	453406	-		4870	0	689	0	0	0	0	0
12/5/15	453406	-		4870	0	689	0	0	0	0	0
12/6/15	453406	-		4870	0	689	0	0	0	0	0
12/7/15	453406	-		4870	0	689	0	0	0	0	0
12/8/15	453406	-		4870	0	689	0	0	0	0	0
12/9/15	453406	-		4870	0	689	0	0	0	0	0
12/10/15	453406	-		4870	0	689	0	0	0	0	0
12/11/15	453406	-		4870	0	689	0	0	0	0	0
12/12/15	453406	-		4870	0	689	0	0	0	0	0
12/13/15	453406	-		4870	0	689	0	0	0	0	0
12/14/15	453406	-		4870	0	689	0	0	0	0	0
12/15/15	453406	-		4870	0	689	0	0	0	0	0
12/16/15	453406	-		4870	0	689	0	0	0	0	0

York Engine Driven Chiller

12/17/15	453406	-		4870	0	689	0	0	0	0	0
12/18/15	453406	-		4870	0	689	0	0	0	0	0
12/19/15	453406	-		4870	0	689	0	0	0	0	0
12/20/15	453406	-		4870	0	689	0	0	0	0	0
12/21/15	453406	-		4870	0	689	0	0	0	0	0
12/22/15	453406	-		4870	0	689	0	0	0	0	0
12/23/15	453406	-		4870	0	689	0	0	0	0	0
12/24/15	453406	-		4870	0	689	0	0	0	0	0
12/25/15	453406	-		4870	0	689	0	0	0	0	0
12/26/15	453406	-		4870	0	689	0	0	0	0	0
12/27/15	453406	-		4870	0	689	0	0	0	0	0
12/28/15	453406	-		4870	0	689	0	0	0	0	0
12/29/15	453406	-		4870	0	689	0	0	0	0	0
12/30/15	453406	-		4870	0	689	0	0	0	0	0
12/31/15	453406	-	0.0	4870	0	689	0	0	0	0	0
		133,386	133	4870	689	Total Pounds =	234.26	444.405	1.378	0	163.982
						Total Tons =	0.12	0.22	0.00	0.00	0.08

Chiller 2015

Natural Gas

Formula: (mcf/1000 x factorunit)/2000

		Pollutant	CAS	SCC	Factor-Unit/ MMCF Lb per	Estimated Emissions	Actual Emissions **
		133					
Nat. Gas	Use in MCF	CO	630080	01-01-006-02	399.0000	0.0266	0.2222 CO
jan	0.0	NOX	10102440	01-01-006-02	2840.0000	0.1894	0.1171 NOX
feb	0.0	PM10		01-01-006-02	10.0000	0.0007	0.0000 PM10
mar	0.0	SOX	7446095	01-01-006-02	0.6000	0.0000	0.0007 SOX
apr	0.0	VOC		01-01-006-02	116.0000	0.0077	0.0820 VOC
may	0.3	CO2			0.1202	8.0165	
jun	0.0	N2O			0.00000227	0.0000	
jul	12.4	CH4			0.000002226	0.0000	
aug	82.4						
sept	38.3						
oct	0.0						
nov	0.0						
dec	0.0						
Totals	133.4						

*Factors per DEP Air Quality Emission Factor Worksheet

** See Date Sheet 7A "EngChillerDATA"

Generators 2016															TOTALS	ppm10	sox	nox	voc	co	Totals		
Heat Plant	Marth	Lang Fire Pump	Lang Gen	Field House	Clothier	Wharton	Mertz	Worth	Dupont	McCabe	Palmer Pitt	Papazian	Dwell	ML#4									
Rate of Fuel consumption Per Hour															Gallons	Factor Diesel per 1000 gal.							
Jan	52.0	19.2	2.2	27.7	5.9	10.3	9.1	15.6		41.5	24.8		37.7	21.9	5.3	273.0	251.1633	0.0058	0.0054	0.0825	0.0044	0.0177	0.1158
Feb	28.3	9.9	3.7	18.3	4.4	5.5	4.8	8.6		7.3	12.4		16.7	7.2	4.2	131.2	124.0050	0.0028	0.0026	0.0396	0.0021	0.0085	0.0557
Mar	14.5	8.1	1.5	13.9	2.3	5.0	5.3	7.0		8.5	8.8		14.4	0.0	4.2	93.4	93.4300	0.0020	0.0019	0.0282	0.0015	0.0061	0.0396
Apr	0.0	5.0	2.9	12.4	1.6	4.3	4.2	5.1		11.0	5.8		10.0	0.0	9.0	71.2	71.2100	0.0015	0.0014	0.0215	0.0011	0.0046	0.0302
May	0.0	5.0	2.9	5.8	1.3	3.5	3.4	3.9		0.0	5.8		8.9	0.0	4.2	44.7	44.7000	0.0009	0.0009	0.0135	0.0007	0.0029	0.0190
Jun	87.0	7.4	2.2	10.2	2.1	6.8	6.3	10.9		23.2	16.1		24.4	16.3	10.9	223.7	207.4800	0.0048	0.0044	0.0676	0.0036	0.0145	0.0949
Jul	1017.9	13.0	2.9	9.5	8.1	8.5	7.6	10.9		14.6	19.7		28.9	23.6	6.5	1171.7	1148.0900	0.0249	0.0233	0.3538	0.0188	0.0762	0.4970
Aug	707.6	3.7	2.2	0.0	0.0	4.0	3.4	3.9		0.0	4.4		12.2	6.2	4.2	751.8	745.5600	0.0160	0.0149	0.2270	0.0121	0.0489	0.3189
Sept	1151.3	8.1	0.0	0.0	3.1	3.5	4.2	7.4		7.3	5.8		6.7	7.6	5.3	1210.3	1202.6600	0.0257	0.0240	0.3655	0.0194	0.0787	0.5133
Oct	0.0	4.3	2.9	11.7	0.0	3.0	3.4	3.9		0.0	5.8		8.9	6.1	4.2	54.2	48.1200	0.0012	0.0011	0.0164	0.0009	0.0035	0.0230
Nov	0.0	3.7	2.2	7.3	0.0	3.8	3.8	3.9		4.9	4.4		7.8	6.1	4.2	52.0	45.8700	0.0011	0.0010	0.0157	0.0008	0.0034	0.0220
Dec	2.9	5.6	2.9	10.2	0.3	0.0	3.4	4.7		0.0	5.1		10.0	7.6	5.3	57.9	50.2700	0.0012	0.0011	0.0175	0.0009	0.0038	0.0246
Total Diesel	3061	93	28	127	29	58	59	85.8	0	118	119	0	186	103	67	4135	4032.5583	0.0879	0.0821	1.2488	0.0664	0.2688	1.7539
Rate of Fuel consumption Per Hour																Factor Nat. Gas per MMCF							
Nat. Gas															MCF		10	0.6	2840	116.0000	399		
Jan										0.255			0.317			2.6	0.0000	0.0000	0.0038	0.0002	0.0005	0.0005	0.0044
Feb										0.6			0.9			1.5	0.0000	0.0000	0.0021	0.0001	0.0003	0.0003	0.0025
Mar										0.6			0.7			1.3	0.0000	0.0000	0.0018	0.0001	0.0003	0.0003	0.0022
Apr										0.6			1.6			2.2	0.0000	0.0000	0.0031	0.0001	0.0004	0.0004	0.0037
May										0.5			0.7			1.1	0.0000	0.0000	0.0016	0.0001	0.0002	0.0002	0.0019
Jun										0.7			1.1			1.8	0.0000	0.0000	0.0026	0.0001	0.0004	0.0004	0.0031
Jul										0.8			4.4			5.2	0.0000	0.0000	0.0074	0.0003	0.0010	0.0010	0.0088
Aug										0.4			0.8			1.2	0.0000	0.0000	0.0017	0.0001	0.0002	0.0002	0.0020
Sept										0.8			0.8			1.3	0.0000	0.0000	0.0019	0.0001	0.0003	0.0003	0.0022
Oct										0.4			0.6			1.1	0.0000	0.0000	0.0015	0.0001	0.0002	0.0002	0.0018
Nov										0.4			0.6			1.1	0.0000	0.0000	0.0015	0.0001	0.0002	0.0002	0.0018
Dec										0.5			0.8			1.3	0.0000	0.0000	0.0019	0.0001	0.0003	0.0003	0.0022
Total Nat. Gas	0	0	0	0	0	0	0	0	7	0	0	15	0	0	21.8	0.00010899	0.0000	0.0310	0.0013	0.0043	0.0043	0.0367	
2016																	0.0880	0.0821	1.2798	0.0676	0.2731	1.7906	
Jan	215	186	18	228	135	246	259	240	264	204	204	288	204	215	150	3056	51						
Feb	117	96	30	150	102	132	138	132	144	36	102	168	90	71	120	1628	27						
Mar	60	78	12	114	54	120	150	108	132	42	72	138	78	0	120	1278	21						
Apr	0	48	24	102	36	102	120	78	132	48	54	96	54	0	258	1368	23						
May	0	48	24	48	30	84	96	60	108	0	48	126	48	0	120	840	14						
Jun	360	72	18	84	48	162	180	168	174	114	132	204	132	160	312	2320	39						
Jul	4212	126	24	78	186	204	216	168	192	72	162	834	156	232	186	7048	117						
Aug	2928	36	2658	0	0	96	96	60	102	0	36	145	66	61	120	6404	107						
Sept	4764	78	0	72	84	120	114	126	144	36	48	150	36	75	150	5853	98						
Oct	0	42	24	96	0	72	96	60	102	0	48	120	48	60	120	888	15						
Nov	0	36	18	60	0	90	108	60	102	24	36	120	42	60	120	876	15						
Dec	12	54	24	84	6	0	96	72	126	0	42	150	54	75	150	945	16						
Total Minutes	12668	900	2874	1044	669	1392	1675	1320	1704	582	978	2755	1008	1009	1926	32504	542						
Total Hours	211	15	48	17	11	23	28	22	28	10	16	46	17	17	32	542							

Generators 2016

Use in Gallons	
#2 Diesel Fuel	
jan	273
feb	131
mar	93
apr	71
may	45
jun	224
jul	1172
aug	752
sept	1210
oct	54
nov	52
dec	58
Totals	4135

Fuel Oil Formula: (Gallons/1000 x factor unit)/2000

Pollutant	CAS	SCC	Factor-Unit/ Lb per 1,000 Gal	Emissions
4135				
CO*	630080	01-01-004-01	130.0000	0.2688
NOX*	10102440	01-01-004-01	604.0000	1.2488
PM10		01-01-004-01	42.5000	0.0879
SOX*	7446095	01-01-004-01	39.7000	0.0821
VOC		01-01-004-01	32.1000	0.0664
CO2		PER GALLON	22.5100	46.5410
N2O		PER GALLON	0.000180000	0.0004
CH4		PER GALLON	0.000900000	0.0019

*Factors per DEP Air Quality Emission Factor Workheet

Natural Gas Formula: (mcf/1000 x factorunit)/2000

Pollutant	CAS	SCC	Factor-Unit/ Lb per MCF	Emissions	Total Emission Gas+Oil
22					
CO	630080	01-01-006-02	399.0000	0.0043	0.2731
NOX	10102440	01-01-006-02	2840.0000	0.0310	1.2798
PM10		01-01-006-02	10.0000	0.0001	0.0880
SOX	7446095	01-01-006-02	0.6000	0.0000	0.0821
VOC		01-01-006-02	116.0000	0.0013	0.0676
CO2		PER SCF	0.1202	1.31003476	47.8510
N2O	Nitrous Oxide	PER SCF	0.000000227	0.0000	0.0004
CH4	Methane	PER SCF	0.000002226	0.0000	0.0019

Nat. Gas Use in MCF	
jan	2.6
feb	1.5
mar	1.3
apr	2.2
may	1.1
jun	1.8
jul	5.2
aug	1.2
sept	1.3
oct	1.1
nov	1.1
dec	1.3
Totals	22