Appendix H
Air Quality

Appendix H-1
Industrial Source Analysis Emissions Profile

Gowanus Rezoning - Industrial Source Analysis Emissions Profile

Use	Number of Permits	Representative Processes Included	CAS No: Pollutant	Emissions (ST) (lb/hr) 93rd Percentile	Emissions (AN) (lb/yr) 93rd Percentile
Use Group 6A					
Custom tailor/dressmaker shops	37				
		Laundry, drying, dyeing, silk screening, and painting of textiles	00064-19-7: ACETIC ACID	0.168	336
			00074-82-8: METHANE	0.404	16.14
			00092-52-4: BIPHENYL	0.055	110
			00095-50-1: DICHLOROBENZINE, ortho	0.03	60.5
			00106-46-7: 1,4-DICHLOROBENZENE(P)	0.028	5.5
			00108-88-3: TOLUENE	0.32	375
			00111-76-2: ETHYLENGLYCOLMONBUTY	0.044	88
			00120-82-1: TRICHCLORO BENZENE	0.165	330
			00630-08-0: CARBON MONOXIDE	0.0702	131.7
			07446-09-5: SULFUR DIOXIDE	0.02138	22.84608
			07664-41-7: AMMONIA	0.04888	97.76
			07732-18-5: WATER MIST	18.416	38920
			08002-05-9: PETROLEUM DISTILLATES	0.16	763
			10102-43-9: NITROGEN OXIDE	0.48	998
			10102-44-0: NITROGEN DIOXIDE	0.006	92
			68476-39-1: HYDROCARBON MISC.	0.032	66.6
			NY075-00-0: PARTICULATES	0.06378	121.34
			NY105-00-0: LIQUID MIST NEC	0.5	800
			NY210-00-0: OXIDES OF NITROGEN	0.3845	620.8
			NY439-00-0: TOTAL AROMATIC HYDRO	0.00979	30.88
			NY495-00-0: TOTAL HYDROCARBONS	0.95225	1836.25
			NY550-00-0: ALIPHATIC HYDROCARB	3	5880
			NY920-00-0: PAINT THINNER	0.004	3.2
Use Group 11A					
Book binding/tooling (by hand)	35				
		Dryers, spay booths, printing, sanding and paper treatment	00062-53-3: ANILINE	0.001	0.03
			00064-19-7: ACETIC ACID	0.001	0.5
			00067-63-0: ISOPROPYL ALCOHOL	0.06573	105.42
			00071-36-3: BUTYL ALCOHOL, N-	0.14	224
			00071-55-6: METHYL CHLOROFORM	0.03	23
			00075-09-2: DICHLOROMETHANE	0.294	588
			00078-93-3: METHYL ETHYL KETONE	0.4251	665.28
			00100-41-4: ETHYL BENZENE	0.012	24
			00108-05-4: VINYL ACETATE	0.001	6
			00108-88-3: TOLUENE	0.7	140
			00111-76-2: ETHYLENGLYCOLMONBUTY	0.106	210
			00117-81-7: DIOCTYL PHTHALATE	0.07	112

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Use	Number of Permits	Representative Processes Included	CAS No: Pollutant	Emissions (ST) (lb/hr) 93rd Percentile	Emissions (AN) (lb/yr) 93rd Percentile
			00123-31-9: HYDROQUINONE	0.07447	116.099
			00123-86-4: BUTYL ACETATE	0.22	336
			01313-99-1: NICKEL OXIDE	0.001	0.8
			01314-13-2: ZINC OXIDE	0.006	4.8
			01330-20-7: XYLENE,M,O&P MIXT.	0.06839	110.74
			07664-93-9: SULFURIC ACID	0.001	2
			07732-18-5: WATER MIST	0.3	480
			NY075-00-0: PARTICULATES	0.0712	304.552
			NY103-00-0: ACID MIST NEC	0.001	1.6
			NY439-00-0: TOTAL AROMATIC HYDRO	1	1
			NY495-00-0: TOTAL HYDROCARBONS	0.001	2
			NY990-00-0: MISCELLANEOUS ORG	0.28837	576.6525
Custom ceramics	4				
		Cermamic scrap processing, spray booth			
			00630-08-0: CARBON MONOXIDE	0.05	26.25
			07446-09-5: SULFUR DIOXIDE	0.015	0.078
			10102-43-9: NITROGEN OXIDE	0.02	10.5
			68527-16-2: HYDROCARBONS C1-3	0.002	1.05
			NY075-00-0: PARTICULATES	0.0902	47.67
			NY909-00-0: TOTAL ORGANICS	0.02	40
			NY909-00-0: TOTAL ORGANICS	0.02	40
Custom manufacturing/altering for retail	37				
		Laundry, drying, dyeing, silk screening, and painting of textiles			
			00064-19-7: ACETIC ACID	0.168	336
			00074-82-8: METHANE	0.404	16.14
			00092-52-4: BIPHENYL	0.055	110
			00095-50-1: DICHLOROBENZINE, ortho	0.03	60.5
			00106-46-7: 1,4-DICHLOROBENZENE(P)	0.028	5.5
			00108-88-3: TOLUENE	0.32	375
			00111-76-2: ETHYLENGLYCOLMONBUTY	0.044	88
			00120-82-1: TRICHCLORO BENZENE	0.165	330
			00630-08-0: CARBON MONOXIDE	0.0702	131.7
			07446-09-5: SULFUR DIOXIDE	0.02138	22.84608
			07664-41-7: AMMONIA	0.04888	97.76
			07732-18-5: WATER MIST	18.416	38920
			08002-05-9: PETROLEUM DISTILLATES	0.16	763
			10102-43-9: NITROGEN OXIDE	0.48	998
			10102-44-0: NITROGEN DIOXIDE	0.006	92
			68476-39-1: HYDROCARBON MISC.	0.032	66.6

Gowanus Rezoning - Industrial Source Analysis Emissions Profile

Use	Number of Permits	Representative Processes Included	CAS No: Pollutant	Emissions (ST) (lb/hr) 93rd Percentile	Emissions (AN) (lb/yr) 93rd Percentile
			NY075-00-0: PARTICULATES	0.06378	121.34
			NY105-00-0: LIQUID MIST NEC	0.5	800
			NY210-00-0: OXIDES OF NITROGEN	0.3845	620.8
			NY439-00-0: TOTAL AROMATIC HYDRO	0.00979	30.88
			NY495-00-0: TOTAL HYDROCARBONS	0.95225	1836.25
			NY550-00-0: ALIPHATIC HYDROCARB	3	5880
			NY920-00-0: PAINT THINNER	0.004	3.2
Custom hair product manufacturing	0				
			No permits identified	---	---
Precision instrument/jewelry manufacturing	243				
		Metal cleaning, metal polishing, soldering, acid hood, and stone cutting	00050-00-0: FORMADEHYDE	0.003	8.73
			00064-17-5: ETHANOL	0.001	0.5
			00067-56-1: METHANOL	0.001	0.5
			00074-82-8: METHANE	0.012	17.7
			00074-90-8: HYDROGEN CYANIDE	0.0764	1.125
			00078-83-1: ISOBUTYL ALCOHOL	6.48	10368
			00079-01-6: TRICHLOROETHYLENE	0.75	1500
			00141-78-6: ETHYL ACETATE	0.001	0.5
			00143-33-9: SODIUM CYANIDE	0.00269	2.23
			00544-92-3: COPPER CYANIDE	0.001	2
			00630-08-0: CARBON MONOXIDE	0.0878	125.84
			01309-60-0: LEAD OXIDE	0.001	0.004
			01310-73-2: SODIUM HYDROXIDE	0.00174	2
			01330-20-7: XYLENE,M,O&P MIXT.	1.08	1728
			01333-74-0: HYDROGEN	0.00193	3.832
			07439-92-1: LEAD	0.001	0.12733
			07440-31-5: TIN	0.001	1.73246
			07440-36-0: ANTIMONY	0.001	1.86364
			07440-43-9: CADMIUM	0.001	2
			07440-44-0: CARBON	0.001	1.6
			07446-09-5: SULFUR DIOXIDE	0.00353	5.648
			07647-01-0: HYDROGEN CHLORIDE	0.29726	127.36
			07664-39-3: HYDROGEN FLUORIDE	0.001	0.5
			07664-41-7: AMMONIA	0.6484	16.64
			07664-93-9: SULFURIC ACID	0.00172	2.864
			07697-37-2: NITRIC ACID	0.02088	96.56
			07732-18-5: WATER MIST	1	2400
			07782-50-5: CHLORINE	0.001	0.4
			10102-43-9: NITROGEN OXIDE	0.03916	66.2584
			64742-65-0: DISTILLATE HEAVY PARAFINIC	0.001	0.8

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Use	Number of Permits	Representative Processes Included	CAS No: Pollutant	Emissions (ST) (lb/hr) 93rd Percentile	Emissions (AN) (lb/yr) 93rd Percentile
			68476-44-8: HYDROCARBONS	1.06654	169.742
			68527-16-2: HYDROCARBONS C1-3	0.06744	120
			NY075-00-0: PARTICULATES	0.10686	221.25
			NY103-00-0: ACID MIST NEC	0.03813	52.876
			NY104-00-0: BASIC MIST NEC	0.001	2
			NY105-00-0: LIQUID MIST NEC	0.0523	83.68
			NY210-00-0: OXIDES OF NITROGEN	0.4625	630
			NY439-00-0: TOTAL AROMATIC HYDRO	0.001	0.13832
			NY495-00-0: TOTAL HYDROCARBONS	7.5292	46.6
Musical instrument manufacturing (no pianos or organs)	58				
		Instrument manufacturing	00064-17-5: ETHANOL	0.1258	74.3
			00067-63-0: ISOPROPYL ALCOHOL	1.02498	1911.496
			00067-64-1: ACETONE	0.585	439
			00071-36-3: BUTYL ALCOHOL, N-	0.4594	780.32
			00078-83-1: ISOBUTYL ALCOHOL	3.8664	2105.568
			00078-93-3: METHYL ETHYL KETONE	0.60814	246.896
			00093-43-6: LACTOL	0.104	145.6
			00108-10-1: METHYL ISOBUTYL KETONE	1.36	1020
			00108-88-3: TOLUENE	1.7358	1047.36
			00110-19-0: ISOBUTYL ACETATE	0.001	1.4
			00111-15-9: CELLOSOLVE ACETATE	0.001	1.4
			00117-81-7: DIOCTYL PHTHALATE	0.13034	52.185
			00123-86-4: BUTYL ACETATE	0.51	408
			00141-78-6: ETHYL ACETATE	1.03	1808
			01330-20-7: XYLENE,M,O&P MIXT.	0.61304	983.16
			08030-30-6: NAPHTHA	1.119	1566.6
			08032-32-4: LIGROINE	0.6	960
			09004-70-0: CELLULOSE NITRATE	0.0113	8.4288
			NY075-00-0: PARTICULATES	0.1066	415.3264
Custom medical appliance manufacturing	16				
		Metal working	07732-18-5: WATER MIST	0.019	38
			08012-95-1: OIL MIST (MINERAL)	0.002	4
			NY075-00-0: PARTICULATES	0.00379	1.93
Custom printing (no limit in C6)	599				
		Printing and drying	00050-00-0: FORMADEHYDE	0.003	8.73
			00056-81-5: GLYCERIN	0.01502	28.831
			00064-17-5: ETHANOL	5.1912	13761.92
			00064-19-7: ACETIC ACID	0.0309	129.715

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Use	Number of Permits	Representative Processes Included	CAS No: Pollutant	Emissions (ST) (lb/hr) 93rd Percentile	Emissions (AN) (lb/yr) 93rd Percentile
			00067-56-1: METHANOL	0.358	1405.46
			00067-63-0: ISOPROPYL ALCOHOL	4.555	12264
			00067-64-1: ACETONE	0.9597	491.04
			00071-36-3: BUTYL ALCOHOL, N-	1.1075	4095.65
			00071-55-6: METHYL CHLOROFORM	0.25	568.976
			00074-82-8: METHANE	0.004	2.97
			00075-09-2: DICHLOROMETHANE	1.1936	1138.58
			00078-93-3: METHYL ETHYL KETONE	0.00172	3.44
			00084-74-2: DIBUTYL PHALATE	0.013	52
			00093-43-6: LACTOL	1.1816	3241.12
			00100-41-4: ETHYL BENZENE	0.01158	27.055
			00107-21-1: ETHYLENE GLYCOL	0.09048	198.88
			00108-10-1: METHYL ISOBUTYL KETONE	0.001	4
			00108-21-4: ISOPROPYL ACETATE	0.06824	110.21
			00108-88-3: TOLUENE	0.30804	202.04
			00108-94-1: CYCLOHEXONE	0.8	1283
			00110-54-3: HEXANE	0.08026	31.71
			00111-76-2: ETHYLENGLYCOLMONBUTY	0.48226	304.16
			00112-34-5: BUTYL CARBITOL	0.1565	337.205
			00115-07-1: PROPYLENE	0.4	890
			00123-31-9: HYDROQUINONE	0.04005	6.156
			00123-86-4: BUTYL ACETATE	0.12111	323.13
			00124-38-9: CARBON DIOXIDE	142.2	62568
			00127-18-4: TETRACHLOROETHYLENE	1.1546	2107.4647
			00141-43-5: MONOETHANOLAMINE	0.4	1.9
			00141-78-6: ETHYL ACETATE	5.521	2591.5
			00142-82-5: N-HEPTANE	2.2924	7217.44
			00630-08-0: CARBON MONOXIDE	0.3072	801.12
			01310-73-2: SODIUM HYDROXIDE	0.001	4
			01327-53-3: ARSENIC TRIOXIDE	0.0000001	0.0000001
			01330-20-7: XYLENE,M,O&P MIXT.	0.06195	107.165
			01333-86-4: CARBON BLACK	0.00416	31.75512
			01335-25-7: LEAD OXIDE	0.00193	2.983
			02807-30-9: ETHYLENEGLYCOL MONOPROPYL ETHER	0.01737	9
			07439-42-1: LEAD	0.00574	2
			07446-09-5: SULFUR DIOXIDE	0.0252	56.59
			07664-38-2: PHOSPHORIC ACID	0.00186	4.0744
			07664-39-3: HYDROGEN FLUORIDE	0	0.01
			07664-41-7: AMMONIA	0.92863	1792.56
			07664-93-9: SULFURIC ACID	0.004	33.778
			07697-37-2: NITRIC ACID	0.019	8.36
			07732-18-5: WATER MIST	58.896	21499.2

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Use	Number of Permits	Representative Processes Included	CAS No: Pollutant	Emissions (ST) (lb/hr) 93rd Percentile	Emissions (AN) (lb/yr) 93rd Percentile
			07758-97-6: LEAD CHROMATE	0.001	0.003
			08002-05-9: PETROLEUM DISTILLATES	0.268	1278
			08030-30-6: NAPHTHA	0.23257	36.41
			08032-32-4: LIGROINE	14.5014	3797.08
			10102-43-9: NITROGEN OXIDE	0.37016	527.48
			10102-44-0: NITROGEN DIOXIDE	0.004	6.1
			68476-39-1: HYDROCARBON MISC.	2.7234	5999.18
			68476-44-8: HYDROCARBONS	0.03934	45.44
			68527-16-2: HYDROCARBONS C1-3	0.3124	992.1214
			NY075-00-0: PARTICULATES	0.12684	616.22
			NY090-00-0: OIL MIST	0.04727	115.871
			NY210-00-0: OXIDES OF NITROGEN	0.19194	1543.032
			NY439-00-0: TOTAL AROMATIC HYDRO	0.43312	692.992
			NY495-00-0: TOTAL HYDROCARBONS	18.4204	17002.36
			NY550-00-0: ALIPHATIC HYDROCARB	1	2016
			NY559-00-0: TOTAL ALIPHATIC HYD	1.116	3486.4
			NY599-00-0: TOTAL ALIPHATIC ALC	5.96	22352
			NY909-00-0: TOTAL ORGANICS	0.7744	3.35207
			NY990-00-0: MISCELLANEOUS ORG	3.7248	10045.56
			NY998-00-0: TOTAL ORGANIC SOLVE	5.808	4167.76
Watchmaking	12				
		Paint Dip, Polishing, Spray Booth, Drying			
			00064-17-5: ETHANOL	0.33	1980
			00067-56-1: METHANOL	0.02	120
			00067-64-1: ACETONE	0.4192	670.02
			00108-88-3: TOLUENE	0.12975	202.56
			00141-78-6: ETHYL ACETATE	0.02	120
			NY075-00-0: PARTICULATES	0.00686	7.832
			NY909-00-0: TOTAL ORGANICS	0.225	1350
Use Group 12B					
Commercial art gallery	49				
		Fiberglass Modling, Bronze Casting			
			00067-63-0: ISOPROPYL ALCOHOL	1.0248	1377.84
			00067-64-1: ACETONE	0.9128	1136.1
			00078-83-1: ISOBUTYL ALCOHOL	4.0274	6428.496
			00078-93-3: METHYL ETHYL KETONE	0.693	898.422
			00100-42-5: STYRENE	1.22221	2428.8595

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			00108-88-3: TOLUENE	3.788	4600.3
			00110-19-0: ISOBUTYL ACETATE	0.24	224
			00123-86-4: BUTYL ACETATE	0.9359	1177.96
			00630-08-0: CARBON MONOXIDE	0.008	6.4
			01314-13-2: ZINC OXIDE	0.0000001	0.0000001
			07446-09-5: SULFUR DIOXIDE	0.001	0.8
			NY075-00-0: PARTICULATES	0.10224	156.64
			NY210-00-0: OXIDES OF NITROGEN	0.08	64
			NY559-00-0: TOTAL ALIPHATIC HYD	1.4	1529
Jewelry / art metal craft shops	243				
		Metal cleaning, metal polishing, soldering, acid hood, and stone cutting	00050-00-0: FORMADEHYDE	0.003	8.73
			00064-17-5: ETHANOL	0.001	0.5
			00067-56-1: METHANOL	0.001	0.5
			00074-82-8: METHANE	0.012	17.7
			00074-90-8: HYDROGEN CYANIDE	0.0764	1.125
			00078-83-1: ISOBUTYL ALCOHOL	6.48	10368
			00079-01-6: TRICHLOROETHYLENE	0.75	1500
			00141-78-6: ETHYL ACETATE	0.001	0.5
			00143-33-9: SODIUM CYANIDE	0.00269	2.23
			00544-92-3: COPPER CYANIDE	0.001	2
			00630-08-0: CARBON MONOXIDE	0.0878	125.84
			01309-60-0: LEAD OXIDE	0.001	0.004
			01310-73-2: SODIUM HYDROXIDE	0.00174	2
			01330-20-7: XYLENE,M,O&P MIXT.	1.08	1728
			01333-74-0: HYDROGEN	0.00193	3.832
			07439-92-1: LEAD	0.001	0.12733
			07440-31-5: TIN	0.001	1.73246
			07440-36-0: ANTIMONY	0.001	1.86364
			07440-43-9: CADMIUM	0.001	2
			07440-44-0: CARBON	0.001	1.6
			07446-09-5: SULFUR DIOXIDE	0.00353	5.648
			07647-01-0: HYDROGEN CHLORIDE	0.29726	127.36
			07664-39-3: HYDROGEN FLUORIDE	0.001	0.5
			07664-41-7: AMMONIA	0.6484	16.64
			07664-93-9: SULFURIC ACID	0.00172	2.864
			07697-37-2: NITRIC ACID	0.02088	96.56
			07732-18-5: WATER MIST	1	2400
			07782-50-5: CHLORINE	0.001	0.4
			10102-43-9: NITROGEN OXIDE	0.03916	66.2584
			64742-65-0: DISTILLATE HEAVY PARAFINIC	0.001	0.8

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			68476-44-8: HYDROCARBONS	1.06654	169.742
			68527-16-2: HYDROCARBONS C1-3	0.06744	120
			NY075-00-0: PARTICULATES	0.10686	221.25
			NY103-00-0: ACID MIST NEC	0.03813	52.876
			NY104-00-0: BASIC MIST NEC	0.001	2
			NY105-00-0: LIQUID MIST NEC	0.0523	83.68
			NY210-00-0: OXIDES OF NITROGEN	0.4625	630
			NY439-00-0: TOTAL AROMATIC HYDRO	0.001	0.13832
			NY495-00-0: TOTAL HYDROCARBONS	7.5292	46.6
Use Group 16A					
Building material sales, open or enclosed (5k sf open storage limit)	0				
			No Permits Identified	---	---
Building contractor supply stores (5k sf open storage limit)	0				
			No Permits Identified	---	---
Household/office equipment or machinery repair shops	25				
		Metal working, Plastic working, Paint Bake Oven, Metal Cleaining, Ink Mixing, Welding	00064-17-5: ETHANOL	0.013	6
			00067-64-1: ACETONE	0.6	960
			00074-82-8: METHANE	0.006	19
			00078-83-1: ISOBUTYL ALCOHOL	0.24	288
			00109-86-4: METHYL CELLOSOLVE	0.003	1.1
			00110-80-5: GLYCOL MONOETHYLETHER	0.005	1.8
			00123-86-4: BUTYL ACETATE	0.001	4
			00124-38-9: CARBON DIOXIDE	0.001	1.8
			00630-08-0: CARBON MONOXIDE	0.03	96
			01314-13-2: ZINC OXIDE	0.000001	0.000001
			01330-20-7: XYLENE,M,O&P MIXT.	0.001	4
			07446-09-5: SULFUR DIOXIDE	0.001	3.2
			07732-18-5: WATER MIST	0.001	0.81
			NY075-00-0: PARTICULATES	0.04748	75.52
			NY210-00-0: OXIDES OF NITROGEN	0.33	1056
			NY559-00-0: TOTAL ALIPHATIC HYD	0.08	128
			NY998-00-0: TOTAL ORGANIC SOLVE	0.001	4
Machinery rental or sales establishments	0				
			No Permits Identified	---	---
Use Group 17B					
Apparel or other textile product manufacturing	37				
		Laundry, drying, dyeing, silk screening, and painting of	00064-19-7: ACETIC ACID	0.168	336
			00074-82-8: METHANE	0.404	16.14
			00092-52-4: BIPHENYL	0.055	110

Gowanus Rezoning - Industrial Source Analysis Emissions Profile

Use	Number of Permits	Representative Processes Included	CAS No: Pollutant	Emissions (ST) (lb/hr) 93rd Percentile	Emissions (AN) (lb/yr) 93rd Percentile
		textiles	00095-50-1: DICHLOROBENZINE, ortho	0.03	60.5
			00106-46-7: 1,4-DICHLOROBENZENE(P)	0.028	5.5
			00108-88-3: TOLUENE	0.32	375
			00111-76-2: ETHYLENGLYCOLMONBUTY	0.044	88
			00120-82-1: TRICHCLORO BENZENE	0.165	330
			00630-08-0: CARBON MONOXIDE	0.0702	131.7
			07446-09-5: SULFUR DIOXIDE	0.02138	22.84608
			07664-41-7: AMMONIA	0.04888	97.76
			07732-18-5: WATER MIST	18.416	38920
			08002-05-9: PETROLEUM DISTILLATES	0.16	763
			10102-43-9: NITROGEN OXIDE	0.48	998
			10102-44-0: NITROGEN DIOXIDE	0.006	92
			68476-39-1: HYDROCARBON MISC.	0.032	66.6
			NY075-00-0: PARTICULATES	0.06378	121.34
			NY105-00-0: LIQUID MIST NEC	0.5	800
			NY210-00-0: OXIDES OF NITROGEN	0.3845	620.8
			NY439-00-0: TOTAL AROMATIC HYDRO	0.00979	30.88
			NY495-00-0: TOTAL HYDROCARBONS	0.95225	1836.25
			NY550-00-0: ALIPHATIC HYDROCARB	3	5880
			NY920-00-0: PAINT THINNER	0.004	3.2
Bottling of all beverage types	2				
		Sanding and spray booth	01335-25-7: LEAD OXIDE	0.01	0.01
			NY075-00-0: PARTICULATES	0.00744	0.07719
			NY909-00-0: TOTAL ORGANICS	3.128	6006
			NY930-00-0: ORGANIC SOLVENTS	3.128	6006
Canvas or canvas product manufacturing	4				
		Woodworking and spray booth	00064-17-5: ETHANOL	1.15	400
			00067-63-0: ISOPROPYL ALCOHOL	0.44	110
			00067-64-1: ACETONE	0.764	87.847
			00078-93-3: METHYL ETHYL KETONE	0.88	220
			00107-98-2: PROPYLENE GLYCOL METHYL ET	0.056	14
			00108-10-1: METHYL ISOBUTYL KETONE	0.66	165
			00123-86-4: BUTYL ACETATE	1.9	30
			07732-18-5: WATER MIST	20	100
			34590-94-8: DIPROPYLENE GLYCOL METHYL ETHER	0.028	7
			64742-89-8: NAPHTHA LIGHT ALIPHATIC	3.93	7860
			NY075-00-0: PARTICULATES	0.03465	8.43093
			NY990-00-0: MISCELLANEOUS ORG	1.32	330

Gowanus Rezoning - Industrial Source Analysis Emissions Profile

Use	Number of Permits	Representative Processes Included	CAS No: Pollutant	Emissions (ST) (lb/hr) 93rd Percentile	Emissions (AN) (lb/yr) 93rd Percentile
Cork product manufacturing	0				
			No Permits Identified	---	---
Fur good manufacturing (excl. tanning/dyeing)	41				
		Textile Drying, Printing, General Exhaust	00078-59-1: ISOPHORONE	0.126	262.1
			00108-10-1: METHYL ISOBUTYL KETONE	0.14	291.2
			00110-82-7: CYCLOHEXANE	0.707	1470.5
			00630-08-0: CARBON MONOXIDE	0.12612	270.769
			07446-09-5: SULFUR DIOXIDE	0.00458	9.1752
			07732-18-5: WATER MIST	1.1	2560
			08002-05-9: PETROLEUM DISTILLATES	1.9712	9400.16
			NY075-00-0: PARTICULATES	0.05978	414.45
			NY090-00-0: OIL MIST	0.2903	696.906
			NY210-00-0: OXIDES OF NITROGEN	1.155	2522.8
			NY550-00-0: ALIPHATIC HYDROCARB	1.1	2200
			NY920-00-0: PAINT THINNER	0.26	832
Glass product manufacturing	21				
		Spray booth, sandblasting, and glass forming oven	00078-83-1: ISOBUTYL ALCOHOL	0.293	38.614
			00124-38-9: CARBON DIOXIDE	1	8760
			00630-08-0: CARBON MONOXIDE	0.82591	1684.7562
			07446-09-5: SULFUR DIOXIDE	0.04097	217.818
			07664-41-7: AMMONIA	0.5022	803.52
			07732-18-5: WATER MIST	2.395	8254.73
			08032-32-4: LIGROINE	0.02965	161.93
			NY075-00-0: PARTICULATES	0.04718	5444.62
			NY210-00-0: OXIDES OF NITROGEN	1.845	3764.12
Hair, felt, feather product manufacturing (excl. washing, curing, dyeing)	2				
		General exhaust	NY075-00-0: PARTICULATES	0.002	3.2
Hosiery manufacturing	0				
			No Permits Identified	---	---
Dry ice/natural ice manufacturing	0				
			No Permits Identified	---	---
Jute, hemp, sisal, or oakum product manufacturing	18				
		Gluing, Bristle Processing, Woodworking			

Gowanus Rezoning - Industrial Source Analysis Emissions Profile

Use	Number of Permits	Representative Processes Included	CAS No: Pollutant	Emissions (ST) (lb/hr) 93rd Percentile	Emissions (AN) (lb/yr) 93rd Percentile
			00078-93-3: METHYL ETHYL KETONE	1.35	2160
			00630-08-0: CARBON MONOXIDE	0.004	0.4
			07446-09-5: SULFUR DIOXIDE	0.001	0.48
			68527-16-2: HYDROCARBONS C1-3	0.001	3.2
			NY075-00-0: PARTICULATES	0.0597	278.72
			NY210-00-0: OXIDES OF NITROGEN	0.04	132
			NY439-00-0: TOTAL AROMATIC HYDRO	0.001	2.4
			NY495-00-0: TOTAL HYDROCARBONS	0.096	115.2
Mattress manufacturing	0				
			No Permits Identified	---	---
Scenery construction manufacturing	12				
		Spray booth			
			00108-88-3: TOLUENE	2.16	1296
			NY075-00-0: PARTICULATES	0.08	48
Shoddy (rag) manufacturing	0				
			No Permits Identified	---	---
Soap or detergent packaging	60				
		Acid mixing, wax mixing, grinding and blending of soaps	00064-17-5: ETHANOL	0.001	1.5
			00151-50-8: POTASSIUM CYANIDE	0.001	1.6
			00557-05-1: ZINC STEARATE	0.001	1.2
			00630-08-0: CARBON MONOXIDE	0.002	3.2
			01306-19-0: CADMIUM OXIDE	0.004	0.012
			01310-73-2: SODIUM HYDROXIDE	0.001	2
			07428-48-0: LEAD STEARATE	0.001	0.6
			07446-09-5: SULFUR DIOXIDE	0.00472	9.412
			07647-01-0: HYDROGEN CHLORIDE	0.01	0.64
			07664-41-7: AMMONIA	0.001	1.6
			07664-93-9: SULFURIC ACID	0.003	0.003
			07697-37-2: NITRIC ACID	0.001	2
			07732-18-5: WATER MIST	0.001	1.6
			08002-74-2: 0	0.06	96
			NY075-00-0: PARTICULATES	0.05794	1056.47606
			NY090-00-0: OIL MIST	0.001	0.001
			NY104-00-0: BASIC MIST NEC	0.006	2.9
			NY210-00-0: OXIDES OF NITROGEN	0.00937	15.02
			NY550-00-0: ALIPHATIC HYDROCARB	6.83	109
Textile spinning, weaving, manufacturing, dyeing, printing	41				
		Silk screening, drying			
			00078-59-1: ISOPHORONE	0.126	262.1

Gowanus Rezoning - Industrial Source Analysis Emissions Profile

Use	Number of Permits	Representative Processes Included	CAS No: Pollutant	Emissions (ST) (lb/hr) 93rd Percentile	Emissions (AN) (lb/yr) 93rd Percentile
Upholstering in bulk	23	Woodworking and spray booth	00108-10-1: METHYL ISOBUTYL KETONE 00110-82-7: CYCLOHEXANE 00630-08-0: CARBON MONOXIDE 07446-09-5: SULFUR DIOXIDE 07732-18-5: WATER MIST 08002-05-9: PETROLEUM DISTILLATES NY075-00-0: PARTICULATES NY090-00-0: OIL MIST NY210-00-0: OXIDES OF NITROGEN NY550-00-0: ALIPHATIC HYDROCARB NY920-00-0: PAINT THINNER 00108-88-3: TOLUENE NY075-00-0: PARTICULATES	0.14 0.707 0.12612 0.00458 1.1 1.9712 0.05978 0.2903 1.155 1.1 0.26 4.32 0.08935	291.2 1470.5 270.769 9.1752 2560 9400.16 414.45 696.906 2522.8 2200 832 0 0
Wax product manufacturing	0				
			No Permits Identified	---	---
Use Group 17C					
Agriculture, incl. greenhouses, nurseries, and truck (produce) gardens	0				
			No Permits Identified	---	---
Docks for passenger vessels (no limit)	0				
			No Permits Identified	---	---
Docks for sightseeing, excursion, or sport fishing vessels (no limit)	0				
			No Permits Identified	---	---
Public transit, railroad, or electric utility substations (no limit)	0				
			No Permits Identified	---	---
Truck terminals (no limit)	0				
			No Permits Identified	---	---
Use Group 18A					
Breweries and alcoholic beverage manufacturing	N/A				
		Fermentation exhausts	00050-00-0: FORMADEHYDE 00064-17-5: ETHANOL 00075-07-0: ACETALDEHYDE 00141-78-6: ETHYL ACETATE NY075-00-0: PARTICULATES	0.0014 0.0014 0.0014 0.0014 0.0716	1.7 1.7 1.7 1.7 89.2

Appendix H-2
Project Industrial Sources - Air Toxic Concentrations

Appendix H-2
Gowanus Rezoning
Project Industrial Sorces--Air Toxic Concentrations (ug/m3)

		Short-Term Time Period																						Annual Time Period											
		Industrial Emission Source Development Site																						Industrial Emission Source Development Site											
		Façade Horizontal Exhaust Stack [1]											Rooftop Vertical Exhaust Stack											Façade Horizontal Exhaust Stack [1]											Rooftop Vertical Exhaust Stack										
Use Groups & Pollutants	SGC	Site 22	Site 29	Site 42	Site 44	Site 47	Site 48	Site P	Site AK	Site BI	Site BL	Site BO	Site 22	Site 29	Site 42	Site 44	Site 47	Site 48	Site P	Site AK	Site BI	Site BL	Site BO	AGC	Site 22	Site 29	Site 42	Site 44	Site 47	Site 48	Site P	Site AK	Site BI	Site BL	Site BO	Site 22	Site 29	Site 42	Site 44	Site 47	Site 48	Site P	Site AK	Site BI	Site BL	Site BO
Colleges or universities																																														
College or university dormitories																																														
Libraries, museums, non-commercial art galleries																																														
Schools																																														
Custom tailor/dressmaker shops																																														
00064-19-7: ACETIC ACID	3,700	7.19E+02	2.89E+02	5.30E+02	3.28E+02	5.36E+02	6.61E+02	5.59E+02	1.03E+03	3.90E+02	3.47E+02	2.67E+02	1.62E+02	2.29E+01	2.42E+02	1.48E+01	3.80E+01	7.79E+00	1.85E+02	1.77E+02	4.10E+02	1.14E+02	4.41E+02	60	5.99E+00	2.47E+00	3.35E+00	4.01E+00	4.73E+00	6.21E+00	4.93E+00	1.32E+01	3.01E+00	2.83E+00	2.66E+00	1.04E+00	9.26E-02	3.12E+00	6.05E-02	2.59E-01	4.17E-02	2.16E+00	2.47E+00	4.38E+00	1.17E+00	4.42E+00
00074-82-8: METHANE	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1,600	2.88E-01	1.19E-01	1.61E-01	1.93E-01	2.27E-01	2.98E-01	2.37E-01	6.34E-01	1.44E-01	1.36E-01	1.28E-01	5.02E-02	4.45E-03	1.50E-01	2.91E-03	1.25E-02	2.00E-03	1.04E-01	1.19E-01	2.11E-01	5.60E-02	2.12E-01
00092-52-4: BIPHENYL	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	3.10	1.96E+00	8.08E-01	1.10E+00	1.31E+00	1.55E+00	2.03E+00	1.61E+00	**4.32E+00**	9.84E-01	9.27E-01	8.70E-01	3.42E-01	3.03E-02	1.02E+00	1.98E-02	8.49E-02	1.36E-02	7.08E-01	8.10E-01	1.44E+00	3.82E-01	1.45E+00
00095-50-1: DICHLOROBENZINE, ortho	30,000	1.28E+02	5.17E+01	9.46E+01	5.85E+01	9.57E+01	1.18E+02	9.99E+01	1.84E+02	6.96E+01	6.20E+01	4.76E+01	2.89E+01	4.09E+00	4.31E+01	2.64E+00	6.78E+00	1.39E+00	3.31E+01	3.15E+01	7.32E+01	2.04E+01	7.88E+01	200	1.08E+00	4.45E-01	6.04E-01	7.23E-01	8.53E-01	1.12E+00	8.87E-01	2.38E+00	5.41E-01	5.10E-01	4.79E-01	1.88E-01	1.67E-02	5.63E-01	1.09E-02	4.67E-02	7.50E-03	3.90E-01	4.45E-01	7.89E-01	2.10E-01	7.96E-01
00106-46-7: 1,4-DICHLOROBENZENE(P)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.09	**9.80E-02**	4.04E-02	5.49E-02	6.57E-02	7.75E-02	**1.02E-01**	8.06E-02	**2.16E-01**	4.92E-02	4.63E-02	4.35E-02	1.71E-02	1.52E-03	5.11E-02	9.90E-04	4.25E-03	6.82E-04	3.54E-02	4.05E-02	7.18E-02	1.91E-02	7.24E-02
00108-88-3: TOLUENE	37,000	1.37E+03	5.51E+02	1.01E+03	6.24E+02	1.02E+03	1.26E+03	1.07E+03	1.97E+03	7.43E+02	6.61E+02	5.08E+02	3.08E+02	4.36E+01	4.60E+02	2.82E+01	7.24E+01	1.48E+01	3.53E+02	3.36E+02	7.81E+02	2.17E+02	8.41E+02	5,000	6.68E+00	2.76E+00	3.74E+00	4.48E+00	5.28E+00	6.93E+00	5.50E+00	1.47E+01	3.35E+00	3.16E+00	2.97E+00	1.17E+00	1.03E-01	3.49E+00	6.75E-02	2.89E-01	4.65E-02	2.41E+00	2.76E+00	4.89E+00	1.30E+00	4.93E+00
00111-76-2: ETHYLENGLYCOLMONBUTY	14,000	1.88E+02	7.58E+01	1.39E+02	8.59E+01	1.40E+02	1.73E+02	1.46E+02	2.70E+02	1.02E+02	9.09E+01	6.99E+01	4.24E+01	6.00E+00	6.33E+01	3.87E+00	9.95E+00	2.04E+00	4.85E+01	4.62E+01	1.07E+02	2.99E+01	1.16E+02	1,600	1.57E+00	6.47E-01	8.78E-01	1.05E+00	1.24E+00	1.63E+00	1.29E+00	3.46E+00	7.87E-01	7.41E-01	6.96E-01	2.74E-01	2.43E-02	8.18E-01	1.58E-02	6.79E-02	1.09E-02	5.67E-01	6.48E-01	1.15E+00	3.05E-01	1.16E+00
00120-82-1: TRICHLORO BENZENE	3,700	7.06E+02	2.84E+02	5.20E+02	3.22E+02	5.26E+02	6.49E+02	5.49E+02	1.01E+03	3.83E+02	3.41E+02	2.62E+02	1.59E+02	2.25E+01	2.37E+02	1.45E+01	3.73E+01	7.65E+00	1.82E+02	1.73E+02	4.03E+02	1.12E+02	4.33E+02	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
00630-08-0: CARBON MONOXIDE	40,000	3.00E+02	1.21E+02	2.21E+02	1.37E+02	2.24E+02	2.76E+02	2.34E+02	4.31E+02	1.63E+02	1.45E+02	1.11E+02	6.76E+01	9.57E+00	1.01E+02	6.18E+00	1.59E+01	3.25E+00	7.74E+01	7.38E+01	1.71E+02	4.76E+01	1.84E+02	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
07446-09-5: SULFUR DIOXIDE	196	9.15E+01	3.68E+01	6.74E+01	4.17E+01	6.82E+01	8.41E+01	7.12E+01	1.31E+02	4.96E+01	4.42E+01	3.39E+01	2.06E+01	2.91E+00	3.07E+01	1.88E+00	4.83E+00	9.91E-01	2.36E+01	2.25E+01	5.22E+01	1.45E+01	5.62E+01	80	4.07E-01	1.68E-01	2.28E-01	2.73E-01	3.22E-01	4.22E-01	3.35E-01	8.98E-01	2.04E-01	1.92E-01	1.81E-01	7.10E-02	6.30E-03	2.12E-01	4.11E-03	1.76E-02	2.83E-03	1.47E-01	1.68E-01	2.98E-01	7.92E-02	3.01E-01
07664-41-7: AMMONIA	2,400	2.09E+02	8.42E+01	1.54E+02	9.54E+01	1.56E+02	1.92E+02	1.63E+02	3.00E+02	1.13E+02	1.01E+02	7.76E+01	4.71E+01	6.66E+00	7.03E+01	4.30E+00	1.11E+01	2.27E+00	5.39E+01	5.14E+01	1.19E+02	3.32E+01	1.28E+02	100	1.74E+00	7.18E-01	9.76E-01	1.17E+00	1.38E+00	1.81E+00	1.43E+00	3.84E+00	8.74E-01	8.23E-01	7.73E-01	3.04E-01	2.69E-02	9.09E-01	1.76E-02	7.55E-02	1.21E-02	6.30E-01	7.20E-01	1.28E+00	3.39E-01	1.29E+00
07732-18-5: WATER MIST	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
08002-05-9: PETROLEUM DISTILLATES	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
10102-43-9: NITROGEN OXIDE	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	74	1.78E+01	7.33E+00	9.96E+00	1.19E+01	1.41E+01	1.84E+01	1.46E+01	3.92E+01	8.93E+00	8.41E+00	7.90E+00	3.10E+00	2.75E-01	9.28E+00	1.80E-01	7.70E-01	1.24E-01	6.43E+00	7.35E+00	1.30E+01	3.46E+00	1.31E+01
10102-44-0: NITROGEN DIOXIDE	188	**2.53E+02**	1.03E+01	1.89E+01	1.17E+01	1.91E+01	2.36E+01	2.00E+01	3.68E+01	1.39E+01	1.24E+01	9.53E+00	5.68E+01	8.18E-01	8.63E+00	5.28E-01	1.36E+00	2.78E-01	6.62E+00	6.31E+00	1.46E+01	4.07E+00	1.58E+01	100	1.64E+00	6.76E-01	9.18E-01	1.10E+00	1.30E+00	1.70E+00	1.35E+00	3.62E+00	8.23E-01	7.75E-01	7.28E-01	2.86E-01	2.54E-02	8.55E-01	1.66E-02	7.10E-02	1.14E-02	5.92E-01	6.77E-01	1.20E+00	3.19E-01	1.21E+00
68476-39-1: HYDROCARBON MISC.	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
NY075-00-0: PARTICULATES	150	6.41E+01	2.27E+01	3.37E+01	3.41E+01	4.08E+01	5.35E+01	4.55E+01	1.29E+02	2.88E+01	2.78E+01	2.31E+01	2.44E+01	2.10E+00	4.16E+01	8.97E-01	3.11E+00	8.59E-01	2.73E+01	2.62E+01	5.91E+01	2.34E+01	7.49E+01	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
NY105-00-0: LIQUID MIST NEC	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
NY210-00-0: OXIDES OF NITROGEN	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
NY439-00-0: TOTAL AROMATIC HYDRO	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
NY495-00-0: TOTAL HYDROCARBONS	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
NY550-00-0: ALIPHATIC HYDROCARB	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
NY920-00-0: PAINT THINNER	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Bike rental or repair																																														
Building contractor supply stores																																														
Exterminators																																														
Funeral homes																																														
Gun repairs																																														
Funerary monument sales (no cutting of stone)																																														
Moving / storage offices (on-site storage limit)																																														
Refreshment stands (incl. drive-thru)																																														
Sailmaking stores																																														
Sign painting shops																																														
Taxidermy shops																																														
Trade embalmers																																														
Blinds / shades / awning shops																																														
Building maintenance services establishments																																														
Driving schools (no commercial licenses)																																														
Ice vending machines																																														
Lumber stores (cutting limited to 400 sf)																																														
Pawn shops																																														
Home appliance repair shops																																														
Upholsterers (retail)																																														
Blueprinting shops																																														

Appendix H-2
Gowanus Rezoning
Project Industrial Sorces--Air Toxic Concentrations (ug/m3)

		Short-Term Time Period																						Annual Time Period																					
		Industrial Emission Source Development Site																						Industrial Emission Source Development Site																					
		Façade Horizontal Exhaust Stack [1]										Rooftop Vertical Exhaust Stack												Façade Horizontal Exhaust Stack [1]										Rooftop Vertical Exhaust Stack									
Use Groups & Pollutants	SGC	Site 22	Site 29	Site 42	Site 44	Site 47	Site 48	Site P	Site AK	Site BI	Site BL	Site BO	Site 22	Site 29	Site 42	Site 44	Site 47	Site 48	Site P	Site AK	Site BI	Site BL	Site BO	AGC	Site 22	Site 29	Site 42	Site 44	Site 47	Site 48	Site P	Site AK	Site BI	Site BL	Site BO	Site 22	Site 29	Site 42	Site 44	Site 47	Site 48	Site P	Site AK	Site BI	Site BL	Site BO
Business schools / colleges																																														
Clothing / costume rental stores																																														
Medical labs (low hazard)																																														
Musical instrument repair shops																																														
Printing establishments																																														
Art / music / dance / theater studios																																														
Trade schools																																														
Photo developing / printing (no limit in C6)																																														
Photo or movie production studios																																														
Radio or television studios																																														
Needlework / weaving / tapestry (by hand)																																														
Book binding/tooling (by hand)																																														
00062-53-3: ANILINE	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.60	5.34E-04	2.20E-04	2.99E-04	3.58E-04	4.23E-04	5.54E-04	4.40E-04	1.18E-03	2.68E-04	2.53E-04	2.37E-04	9.32E-05	8.27E-06	2.79E-04	5.40E-06	2.32E-05	3.72E-06	1.93E-04	2.21E-04	3.91E-04	1.04E-04	3.95E-04
00064-19-7: ACETIC ACID	3,700	4.28E+00	1.72E+00	3.15E+00	1.95E+00	3.19E+00	3.93E+00	3.33E+00	6.14E+00	2.32E+00	2.07E+00	1.59E+00	9.63E-01	1.36E-01	1.44E+00	8.80E-02	2.26E-01	4.64E-02	1.10E+00	1.05E+00	2.44E+00	6.79E-01	2.63E+00	60	8.91E-03	3.67E-03	4.99E-03	5.97E-03	7.05E-03	9.24E-03	7.33E-03	1.96E-02	4.47E-03	4.21E-03	3.96E-03	1.55E-03	1.38E-04	4.65E-03	9.00E-05	3.86E-04	6.20E-05	3.22E-03	3.68E-03	6.52E-03	1.73E-03	6.58E-03
00067-63-0: ISOPROPYL ALCOHOL	98,000	2.81E+02	1.13E+02	2.07E+02	1.28E+02	2.10E+02	2.59E+02	2.19E+02	4.04E+02	1.53E+02	1.36E+02	1.04E+02	6.33E+01	8.96E+00	9.45E+01	5.79E+00	1.49E+01	3.05E+00	7.25E+01	6.91E+01	1.60E+02	4.46E+01	1.73E+02	7,000	1.88E+00	7.75E-01	1.05E+00	1.26E+00	1.49E+00	1.95E+00	1.55E+00	4.14E+00	9.43E-01	8.88E-01	8.34E-01	3.28E-01	---	9.80E-01	1.90E-02	---	1.31E-02	6.79E-01	7.76E-01	1.38E+00	3.66E-01	1.39E+00
00071-36-3: BUTYL ALCOHOL, N-	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1,500	3.99E+00	1.65E+00	2.24E+00	2.68E+00	3.16E+00	4.14E+00	3.28E+00	8.80E+00	2.00E+00	1.89E+00	1.77E+00	6.96E-01	6.17E-02	2.08E+00	4.03E-02	1.73E-01	2.78E-02	1.44E+00	1.65E+00	2.92E+00	7.77E-01	2.95E+00
00071-55-6: METHYL CHLOROFORM	9,000	1.28E+02	5.17E+01	9.46E+01	5.85E+01	9.57E+01	1.18E+02	9.99E+01	1.84E+02	6.96E+01	6.20E+01	4.76E+01	2.89E+01	4.09E+00	4.31E+01	2.64E+00	6.78E+00	1.39E+00	3.31E+01	3.15E+01	7.32E+01	2.04E+01	7.88E+01	5,000	4.10E-01	1.69E-01	2.30E-01	2.75E-01	3.24E-01	4.25E-01	3.37E-01	9.04E-01	2.06E-01	1.94E-01	1.82E-01	7.15E-02	6.34E-03	2.14E-01	4.14E-03	1.78E-02	2.85E-03	1.48E-01	1.69E-01	3.00E-01	7.98E-02	3.03E-01
00075-09-2: DICHLOROMETHANE	14,000	1.26E+03	5.06E+02	9.27E+02	5.74E+02	9.38E+02	1.16E+03	9.79E+02	1.81E+03	6.83E+02	6.07E+02	4.67E+02	2.83E+02	4.01E+01	4.23E+02	2.59E+01	6.65E+01	1.36E+01	3.24E+02	3.09E+02	7.17E+02	2.00E+02	7.72E+02	60	1.05E+01	4.32E+00	5.87E+00	7.03E+00	8.29E+00	1.09E+01	8.62E+00	2.31E+01	5.26E+00	4.95E+00	4.65E+00	1.83E+00	1.62E-01	5.47E+00	1.06E-01	4.54E-01	7.29E-02	3.79E+00	4.33E+00	7.67E+00	2.04E+00	7.74E+00
00078-93-3: METHYL ETHYL KETONE	13,000	1.82E+03	7.32E+02	1.34E+03	8.30E+02	1.36E+03	1.67E+03	1.42E+03	2.61E+03	9.87E+02	8.78E+02	6.75E+02	4.09E+02	5.79E+01	6.11E+02	3.74E+01	9.61E+01	1.97E+01	4.69E+02	4.47E+02	1.04E+03	2.89E+02	1.12E+03	5,000	1.19E+01	4.89E+00	6.64E+00	7.95E+00	9.38E+00	1.23E+01	9.75E+00	2.61E+01	5.95E+00	5.60E+00	5.26E+00	2.07E+00	1.83E-01	6.19E+00	1.20E-01	5.14E-01	8.25E-02	4.28E+00	4.90E+00	8.68E+00	2.31E+00	8.75E+00
00100-41-4: ETHYL BENZENE	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1,000	4.28E-01	1.76E-01	2.39E-01	2.87E-01	3.38E-01	4.43E-01	3.52E-01	9.43E-01	2.15E-01	2.02E-01	1.90E-01	7.46E-02	6.62E-03	2.23E-01	4.32E-03	1.85E-02	2.98E-03	1.55E-01	1.77E-01	3.13E-01	8.32E-02	3.16E-01
00108-05-4: VINYL ACETATE	5,300	4.28E+00	1.72E+00	3.15E+00	1.95E+00	3.19E+00	3.99E+00	3.33E+00	6.14E+00	2.32E+00	2.07E+00	1.59E+00	9.63E-01	1.36E-01	1.44E+00	8.80E-02	2.26E-01	4.64E-02	1.10E+00	1.05E+00	2.44E+00	6.79E-01	2.63E+00	200	1.07E-01	4.41E-02	5.99E-02	7.17E-02	8.46E-02	1.11E-01	8.79E-02	2.36E-01	5.37E-02	5.05E-02	4.75E-02	1.86E-02	1.65E-03	5.58E-02	1.08E-03	4.63E-03	7.44E-04	3.86E-02	4.42E-02	7.83E-02	2.08E-02	7.89E-02
00108-88-3: TOLUENE	37,000	3.00E+03	1.21E+03	2.21E+03	1.37E+03	2.23E+03	2.75E+03	2.33E+03	4.30E+03	1.63E+03	1.45E+03	1.11E+03	6.74E+02	9.54E+01	1.01E+03	6.16E+01	1.58E+02	3.24E+01	7.72E+02	7.36E+02	1.71E+03	4.75E+02	1.84E+03	5,000	2.49E+00	1.03E+00	1.40E+00	1.67E+00	1.97E+00	2.59E+00	2.05E+00	5.50E+00	1.25E+00	1.18E+00	1.11E+00	4.35E-01	3.86E-02	1.30E+00	2.52E-02	1.08E-01	1.74E-02	9.02E-01	1.03E+00	1.83E+00	4.86E-01	1.84E+00
00111-76-2: ETHYLENEGLYCOLMONOBUTY	14,000	4.54E+02	1.83E+02	3.34E+02	2.07E+02	3.38E+02	4.17E+02	3.53E+02	6.51E+02	2.46E+02	2.19E+02	1.68E+02	1.02E+02	1.44E+01	1.52E+02	9.33E+00	2.40E+01	4.91E+00	1.17E+02	1.11E+02	2.59E+02	7.19E+01	2.78E+02	1,600	3.74E+00	1.54E+00	2.10E+00	2.51E+00	2.96E+00	3.88E+00	3.08E+00	8.25E+00	1.88E+00	1.77E+00	1.66E+00	6.53E-01	5.79E-02	1.95E+00	3.78E-02	1.62E-01	2.60E-02	1.35E+00	1.55E+00	2.74E+00	7.28E-01	2.76E+00
00117-81-7: DIOCTYL PHTHALATE	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.42	**2.00E+00**	**8.23E-01**	**1.12E+00**	**1.34E+00**	**1.58E+00**	**2.07E+00**	**1.64E+00**	**4.40E+00**	**1.00E+00**	**9.43E-01**	**8.86E-01**	3.48E-01	3.09E-02	**1.04E+00**	2.02E-02	8.65E-02	1.39E-02	**7.21E-01**	**8.24E-01**	1.46E+00	3.88E-01	1.47E+00
00123-31-9: HYDROQUINONE	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	2.40	2.07E+00	8.53E-01	1.16E+00	1.39E+00	1.64E+00	2.14E+00	1.70E+00	**4.56E+00**	1.04E+00	9.78E-01	9.19E-01	3.61E-01	3.20E-02	1.08E+00	2.09E-02	8.96E-02	1.44E-02	7.48E-01	8.55E-01	1.51E+00	4.03E-01	1.53E+00
00123-86-4: BUTYL ACETATE	95,000	9.42E+02	3.79E+02	6.94E+02	4.29E+02	7.02E+02	8.65E+02	7.32E+02	1.35E+03	5.11E+02	4.54E+02	3.49E+02	2.12E+02	3.00E+01	3.16E+02	1.94E+01	4.97E+01	1.02E+01	2.43E+02	2.31E+02	5.37E+02	1.49E+02	5.78E+02	17,000	5.99E+00	2.47E+00	3.35E+00	4.01E+00	4.73E+00	6.21E+00	4.93E+00	1.32E+01	3.01E+00	2.83E+00	2.66E+00	1.04E+00	9.26E-02	3.12E+00	6.05E-02	2.59E-01	4.17E-02	2.16E+00	2.47E+00	4.38E+00	1.17E+00	4.42E+00
01313-99-1: NICKEL OXIDE	0.20	**4.28E+00**	**1.72E+00**	**3.15E+00**	**1.95E+00**	**3.19E+00**	**3.93E+00**	**3.33E+00**	**6.14E+00**	**2.32E+00**	**2.07E+00**	**1.59E+00**	**9.63E-01**	1.36E-02	**1.44E+00**	8.80E-02	2.26E-02	4.64E-02	**1.10E+00**	**1.05E+00**	**2.44E+00**	**6.79E-01**	**2.63E+00**	5.30E-03	**1.43E-02**	**5.88E-03**	**7.98E-03**	**9.56E-03**	**1.13E-02**	**1.48E-02**	**1.17E-02**	**3.14E-02**	**7.15E-03**	**6.74E-03**	**6.33E-03**	2.49E-03	2.21E-05	**7.44E-03**	1.44E-04	6.18E-05	9.92E-05	5.15E-03	**5.89E-03**	1.04E-02	2.77E-03	1.05E-02
01314-13-2: ZINC OXIDE	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	5.90E-03	**8.55E-02**	**3.53E-02**	**4.79E-02**	**5.73E-02**	**6.76E-02**	**8.87E-02**	**7.04E-02**	**1.89E-01**	**4.29E-02**	**4.04E-02**	**3.80E-02**	**1.49E-02**	1.32E-03	**4.46E-02**	8.64E-04	3.71E-03	5.95E-04	**3.09E-02**	**3.53E-02**	**6.26E-02**	**1.66E-02**	**6.31E-02**
01330-20-7: XYLENE,M,O&P MIXT.	22,000	2.93E+02	1.18E+02	2.16E+02	1.33E+02	2.18E+02	2.69E+02	2.28E+02	4.20E+02	1.59E+02	1.41E+02	1.09E+02	6.58E+01	9.32E+00	9.84E+01	6.02E+00	1.55E+01	3.17E+00	7.54E+01	7.19E+01	1.67E+02	4.64E+01	1.80E+02	100	1.97E+00	8.14E-01	1.11E+00	1.32E+00	1.56E+00	2.05E+00	1.62E+00	4.35E+00	9.90E-01	9.33E-01	8.76E-01	3.44E-01	3.05E-02	1.03E+00	1.99E-02	8.55E-02	1.37E-02	7.13E-01	8.15E-01	1.45E+00	3.84E-01	1.46E+00
07664-93-9: SULFURIC ACID	120	4.28E+00	1.72E+00	3.15E+00	1.95E+00	3.19E+00	3.93E+00	3.33E+00	6.14E+00	2.32E+00	2.07E+00	1.59E+00	9.63E-01	1.36E-01	1.44E+00	8.80E-02	2.26E-01	4.64E-02	1.10E+00	1.05E+00	2.44E+00	6.79E-01	2.63E+00	1.00	3.56E-02	1.47E-02	2.00E-02	2.39E-02	2.82E-02	3.69E-02	2.93E-02	7.86E-02	1.79E-02	1.68E-02	1.58E-02	6.22E-03	5.51E-04	1.86E-02	3.60E-04	1.54E-03	2.48E-04	1.29E-02	1.47E-02	2.61E-02	6.94E-03	2.63E-02
07732-18-5: WATER MIST	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
NY075-00-0: PARTICULATES	150	7.16E+01	2.54E+01	3.77E+01	3.81E+01	4.55E+01	5.98E+01	5.08E+01	1.44E+02	3.21E+01	3.11E+01	2.58E+01	2.72E+01	2.34E+00	4.64E+01	1.00E+00	3.47E+00	9.59E-01	3.05E+01	2.92E+01	6.59E+01	2.62E+01	8.36E+01	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
NY103-00-0: ACID MIST NEC	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
NY439-00-0: TOTAL AROMATIC HYDRO	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
NY495-00-0: TOTAL HYDROCARBONS	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
NY990-00-0: MISCELLANEOUS ORG	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Custom ceramics																																														
00630-08-0: CARBON MONOXIDE	40,000	2.14E+02	8.61E+01	1.58E+02	9.76E+01	1.60E+02	1.97E+02	1.66E+02	3.07E+02	1.16E+02	1.03E+02	7.94E+01	4.81E+01	6.81E+00	7.19E+01	4.40E+00	1.13E+01	2.32E+00	5.52E+01	5.25E+01	1.22E+02	3.39E+01	1.31E+02	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
07446-09-5: SULFUR DIOXIDE	196	6.42E+01	2.58E+01	4.73E+01	2.93E+01	4.79E+01	5.90E+01	4.99E+01	9.21E+01	3.48E+01	3.10E+01	2.38E+01	1.44E+01	2.04E+00	2.16E+01	1.32E+00	3.39E+00	6.95E-01	1.65E+01	1.58E+01	3.66E+01	1.02E+01	3.94E+01	80	1.39E-03	5.73E-04	7.75E-04	9.32E-04	1.10E-03	1.44E-03	1.14E-03	3.07E-03	6.98E-04	6.57E-04	6.17E-04	2.42E-04	2.15E-05	7.25E-04	1.40E-05	6.02E-05	9.67E-06	5.02E-04	5.74E-04	1.02E-03	2.71E-04	1.03E-03
10102-43-9: NITROGEN OXIDE	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	74	1.87E-01	7.72E-02	1.05E-01	1.25E-01	1.48E-01	1.94E-01	1.54E-01	4.13E-01	9.39E-02	8.84E-02	8.31E-02	3.26E-02	2.89E-03	9.76E-02	1.89E-03	8.10E-03	1.30E-03	6.76E-02	7.73E-02	1.37E-01	3.64E-02	1.38E-01
68527-16-2: HYDROCARBONS C1-3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
NY075-00-0: PARTICULATES	150	9.06E+01	3.21E+01	4.77E+01	4.83E+01	5.77E+01	7.57E+01	6.43E+01	**1.82E+02**	4.07E+01	3.94E+01	3.27E+01	3.45E+01	2.97E+00	5.88E+01	1.27E+00	4.40E+00	1.21E+00	3.86E+01	3.70E+01	8.35E+01	3.31E+01	1.06E+02	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
NY909-00-0: TOTAL ORGANICS	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
NY909-00-0: TOTAL ORGANICS	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Custom manufacturing/altering for retail																																														
00064-19-7: ACETIC ACID	3,700	7.19E+02	2.89E+02	5.30E+02	3.28E+02	5.36E+02	6.61E+02	5.59E+02	1.03E+03	3.90E+02	3.47E+02	2.67E+02	1.62E+02	2.29E+01	2.42E+02	1.48E+01	3.80E+01	7.79E+00	1.85E+02	1.77E+02	4.10E+02	1.14E+02	4.41E+02	60	5.99E+00	2.47E+00	3.35E+00	4.01E+00	4.73E+00	6.21E+00	4.93E+00	1.32E+01	3.01E+00	2.83E+00	2.66E+00	1.04E+00	9.26E-02	3.12E+00	6.05E-02	2.59E-01	4.17E-02	2.16E+00	2.47E+00	4.38E+00	1.17E+00	4.42E+00
00074-82-8: METHANE	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1,600	2.88E-01	1.19E-01	1.61E-01	1.93E-01	2.27E-01	2.98E-01	2.37E-01	6.34E-01	1.44E-01	1.36E-01	1.28E-01	5.02E-02	4.45E-03	1.50E-01	2.91E-03	1.25E-02	2.00E-03	1.04E-01	1.19E-01	2.11E-01	5.60E-02	2.12E-01
00092-52-4: BIPHENYL	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	3.10	1.96E+00	8.08E-01	1.10E+00	1.31E+00	1.55E+00	2.03E+00	1.61E+00	**4.32E+00**	9.84E-01	9.27E-01	8.70E-01	3.42E-01	3.03E-02	1.02E+00	1.98E-02	8.49E-02	1.36E-02	7.08E-01	8.10E-01	1.44E+00	3.82E-01	1.45E+00
00095-50-1: DICHLOROBENZENE, o=ho	30,000	1.28E+02	5.17E+01	9.46E+01	5.85E+01	9.57E+01	1.18E+02	9.99E+01	1.84E+02	6.96E+01	6.20E+01	4.76E+01	2.89E+01	4.09E+00	4.31E+01	2.64E+00	6.78E+00	1.39E+00	3.31E+01	3.15E+01	7.32E+01	2.04E+01	7.88E+01	200	1.09E+00	4.45E-01	6.04E-01	7.23E-01	8.53E-01	1.12E+00	8.87E-01	2.38E+00	5.41E-01	5.10E-01	4.79E-01	1.88E-01	1.67E-02	5.63E-01	1.09E-02	4.67E-02	7.50E-03	3.90E-01	4.45E-01	7.89E-01	2.10E-01	7.96E-01
00105-46-7: 1,4-DICHLOROBENZENE(P)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	5.09	**9.80E-02**	4.04E-02	5.49E-02	6.57E-02	7.75E-02	**1.02E-01**	8.06E-02	**2.16E-01**	4.92E-02	4.63E-02	4.35E-02	1.71E-02	1.52E-03	5.11E-02	9.90E-04	4.25E-03	6.82E-04	3.54E-02	4.05E-02	7.18E-02	1.91E-02	7.24E-02
00108-88-3: TOLUENE	37,000	1.37E+03	5.51E+02	1.01E+03	6.24E+02	1.02E+03	1.26E+03	1.07E+03	1.97E+03	7.43E+02	6.61E+02	5.08E+02	3.08E+02	4.36E+01	4.60E+02	2.82E+01	7.24E+01	1.48E+01	3.53E+02	3.36E+02	7.81E+02	2.17E+02	8.41E+02	5,000	6.68E+00	2.76E+00	3.74E+00	4.48E+00	5.28E+00	6.93E+00	5.50E+00	1.47E+01	3.35E+00	3.16E+00	2.97E+00	1.17E+00	1.03E-01	3.49E+00	6.75E-02	2.89E-01	4.65E-02	2.41E+00	2.76E+00	4.89E+00	1.30E+00	4.93E+00
00111-76-2: ETHYLENEGLYCOLMONOBUTY	14,000	1.88E+02	7.58E+01	1.39E+02	8.59E+01	1.40E+02	1.73E+02	1.46E+02	2.70E+02	1.02E+02	9.09E+01	6.99E+01	4.24E+01	6.00E+00	6.33E+01	3.87E+00	9.95E+00	2.04E+00	4.85E+01	4.62E+01	1.07E+02	2.99E+01	1.16E+02	1,600	1.57E+00	6.47E-01	8.78E-01	1.05E+00	1.24E+00	1.63E+00	1.29E+00	3.46E+00	7.87E-01	7.41E-01	6.96E-01	2.74E-01	2.43E-02	8.18E-01	1.58E-02	6.79E-02	1.09E-02	5.67E-01	6.48E-01	1.15E+00	3.05E-01	1.16E+00
00120-82-1: TRICHLORO BENZENE	3,700	7.06E+02	2.84E+02	5.20E+02	3.22E+02	5.26E+02	6.49E+02	5.49E+02	1.01E+03	3.83E+02	3.41E+02	2.62E+02	1.59E+02	2.25E+01	2.37E+02	1.45E+01	3.73E+01	7.65E+00	1.82E+02	1.73E+02	4.03E+02	1.12E+02	4.33E+02	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
00630-08-0: CARBON MONOXIDE	40,000	3.00E+02	1.21E+02	2.21E+02	1.37E+02	2.24E+02	2.76E+02	2.34E+02	4.31E+02	1.63E+02	1.45E+02	1.11E+02	6.76E+01	9.57E+00	1.01E+02	6.18E+00	1.59E+01	3.25E+00	7.74E+01	7.38E+01	1.71E+02	4.76E+01	1.84E+02	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
07446-09-5: SULFUR DIOXIDE	196	9.15E+01	3.68E+01	6.74E+01	4.17E+01	6.82E+01	8.41E+01	7.12E+01	1.31E+02	4.96E+01	4.42E+01	3.39E+01	2.06E+01	2.91E+00	3.07E+01	1.88E+00	4.83E+00	9.91E-01	2.36E+01	2.25E+01	5.22E+01	1.45E+01	5.62E+01	80	4.07E-01	1.68E-01	2.28E-01	2.73E-01	3.22E-01	4.22E-01	3.35E-01	8.98E-01	2.04E-01	1.92E-01	1.81E-01	7.10E-02	6.30E-03	2.12E-01	4.11E-03	1.76E-02	2.83E-03	1.47E-01	1.68E-01	2.98E-01	7.92E-02	3.01E-01
07664-41-7: AMMONIA	2,400	2.09E+02	8.42E+01	1.54E+02	9.54E+01	1.56E+02	1.92E+02	1.63E+02	3.00E+02	1.13E+02	1.01E+02	7.76E+01	4.71E+01	6.66E+00	7.03E+01	4.30E+00	1.11E+01	2.27E+00	5.39E+01	5.14E+01	1.19E+02	3.32E+01	1.28E+02	100	1.74E+00	7.18E-01	9.76E-01	1.17E+00	1.38E+00	1

Appendix H-2
Gowanus Rezoning
Project Industrial Sorces--Air Toxic Concentrations (ug/m3)

| | | Short-Term Time Period | | |

Appendix H-2
Gowanus Rezoning
Project Industrial Sorces--Air Toxic Concentrations (ug/m3)

		Short-Term Time Period												Annual Time Period											
		Industrial Emission Source Development Site												Industrial Emission Source Development Site											
		Façade Horizontal Exhaust Stack [1][2]							Rooftop Vertical Exhaust Stack					Façade Horizontal Exhaust Stack [1][2]							Rooftop Vertical Exhaust Stack				
Use Groups & Pollutants	SGC	Site 22	Site 29	Site 42	Site 44	Site 47	Site 48	Site P	Site AK	Site BI	Site BL	Site BO	Site 22	Site 29	Site 42	Site 44	Site 47	Site 48	Site P	Site AK	Site BI	Site BL	Site BO	AGC	Site 22	Site 29	Site 42	Site 44	Site 47	Site 48	Site P	Site AK	Site BI	Site BL	Site BO
08032-32-4: LIGROINE	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	900	6.76E+01	2.79E+01	3.79E+01	4.54E+01	5.35E+01	7.01E+01	5.57E+01	1.49E+02	3.40E+01	3.20E+01	3.00E+01	1.18E+01	1.05E+00	3.53E+01	6.84E-01	2.93E+00	4.71E-01	2.45E+01	2.79E+01	4.95E+01	1.32E+01	5.00E+01
10102-43-9: NITROGEN OXIDE	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	74	9.40E+00	3.88E+00	5.26E+00	6.30E+00	7.43E+00	9.74E+00	7.73E+00	2.07E+01	4.72E+00	4.44E+00	4.17E+00	1.64E+00	1.45E-01	4.90E+00	9.50E-02	4.07E-01	6.54E-02	3.40E+00	3.88E+00	6.88E+00	1.83E+00	6.94E+00
10102-44-0: NITROGEN DIOXIDE	188	1.71E+01	6.89E+00	1.26E+01	7.81E+00	1.28E+01	1.57E+01	1.33E+01	2.46E+01	9.29E+00	8.26E+00	6.35E+00	3.85E+00	5.45E-01	5.75E+00	3.52E-01	9.04E-01	1.85E-01	4.41E+00	4.20E+00	9.76E+00	2.71E+00	1.05E+01	100	1.09E-01	4.48E-02	6.09E-02	7.29E-02	8.60E-02	1.13E-01	8.94E-02	2.40E-01	5.46E-02	5.14E-02	4.83E-02	1.90E-02	1.68E-03	5.67E-02	1.10E-03	4.71E-03	7.57E-04	3.93E-02	4.49E-02	7.96E-02	2.12E-02	8.02E-02
68476-39-1: HYDROCARBON MISC.	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
68476-84-8: HYDROCARBONS	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
68527-16-2: HYDROCARBONS C1-3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
NY075-00-0: PARTICULATES	150	1.27E+02	4.52E+01	6.71E+01	6.79E+01	8.11E+01	1.06E+02	9.04E+01	**2.56E+02**	5.72E+01	5.53E+01	4.59E+01	4.85E+01	4.17E+00	8.27E+01	1.78E+00	6.19E+00	1.71E+00	5.43E+01	5.21E+01	1.17E+02	4.66E+01	---	---	---	---	---	---	---	---	---	---	---	---	---	---
NY090-00-0: OIL MIST	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
NY210-00-0: OXIDES OF NITROGEN	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
NY439-00-0: TOTAL AROMATIC HYDRO	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
NY495-00-0: TOTAL HYDROCARBONS	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
NY550-00-0: ALIPHATIC HYDROCARB	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
NY559-00-0: TOTAL ALIPHATIC HYD	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
NY599-00-0: TOTAL ALIPHATIC ALC	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
NY909-00-0: TOTAL ORGANICS	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
NY990-00-0: MISCELLANEOUS ORG	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
NY998-00-0: TOTAL ORGANIC SOLVE	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Watchmaking																																			
00064-17-5: ETHANOL	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	45,000	3.53E+01	1.46E+01	1.98E+01	2.37E+01	2.79E+01	3.66E+01	2.90E+01	7.78E+01	1.77E+01	1.67E+01	1.57E+01	6.15E+00	5.46E-01	1.84E+01	3.56E-01	1.53E+00	2.46E-01	1.28E+01	1.46E+01	2.58E+01	6.87E+00	2.60E+01
00067-56-1: METHANOL	33,000	8.56E+01	3.45E+01	6.31E+01	3.90E+01	6.38E+01	7.87E+01	6.66E+01	1.23E+02	4.64E+01	4.13E+01	3.18E+01	1.93E+01	2.73E+00	2.88E+01	1.76E+00	4.52E+00	9.27E-01	2.21E+01	2.10E+01	4.88E+01	1.36E+01	5.25E+01	4,000	2.14E+00	8.82E-01	1.20E+00	1.43E+00	1.69E+00	2.22E+00	1.76E+00	4.72E+00	1.07E+00	1.01E+00	9.49E-01	3.73E-01	3.31E-02	1.12E+00	2.16E-02	9.26E-02	1.49E-02	7.73E-01	8.83E-01	1.57E+00	4.16E-01	1.58E+00
00067-64-1: ACETONE	180,000	1.79E+03	7.22E+02	1.32E+03	8.18E+02	1.34E+03	1.65E+03	1.40E+03	2.57E+03	9.73E+02	8.66E+02	6.66E+02	4.04E+02	5.71E+01	6.03E+02	3.69E+01	9.48E+01	1.94E+01	4.62E+02	4.41E+02	1.02E+03	2.85E+02	1.10E+03	30,000	1.19E+01	4.92E+00	6.69E+00	8.00E+00	9.44E+00	1.24E+01	9.82E+00	2.63E+01	5.99E+00	5.64E+00	5.30E+00	2.08E+00	1.85E-01	6.23E+00	1.21E-01	5.17E-01	8.31E-02	4.31E+00	4.93E+00	8.74E+00	2.32E+00	8.81E+00
00108-88-3: TOLUENE	37,000	5.55E+02	2.24E+02	4.09E+02	2.53E+02	4.14E+02	5.10E+02	4.32E+02	7.97E+02	3.01E+02	2.68E+02	2.06E+02	1.25E+02	1.77E+01	1.87E+02	1.14E+01	2.93E+01	6.01E+00	1.43E+02	1.36E+02	3.17E+02	8.81E+01	3.41E+02	5,000	3.61E+00	1.49E+00	2.02E+00	2.42E+00	2.85E+00	3.74E+00	2.97E+00	7.96E+00	1.81E+00	1.71E+00	1.60E+00	6.30E-01	5.58E-02	1.88E+00	3.65E-02	1.56E-01	2.51E-02	1.30E+00	1.49E+00	2.64E+00	7.03E-01	2.66E+00
00141-78-6: ETHYL ACETATE	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	3,400	2.14E+00	8.82E-01	1.20E+00	1.43E+00	1.69E+00	2.22E+00	1.76E+00	4.72E+00	1.07E+00	1.01E+00	9.49E-01	3.73E-01	3.31E-02	1.12E+00	2.16E-02	9.26E-02	1.49E-02	7.73E-01	8.83E-01	1.57E+00	4.16E-01	1.58E+00
NY075-00-0: PARTICULATES	150	6.89E+00	2.44E+00	3.63E+00	3.67E+00	4.39E+00	5.76E+00	4.89E+00	1.39E+01	3.09E+00	2.99E+00	2.48E+00	2.62E+00	2.26E-01	4.47E+00	9.65E-02	3.35E-01	9.24E-02	2.94E+00	2.82E+00	6.35E+00	2.52E+00	8.06E+00	---	---	---	---	---	---	---	---	---	---	---	---	---	---
NY909-00-0: TOTAL ORGANICS	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Commercial art gallery																																			
00067-63-0: ISOPROPYL ALCOHOL	98,000	4.39E+03	1.77E+03	3.23E+03	2.00E+03	3.27E+03	4.03E+03	3.41E+03	6.29E+03	2.38E+03	2.12E+03	1.63E+03	9.87E+02	1.40E+02	1.47E+03	9.02E+01	2.32E+02	4.75E+01	1.13E+03	1.08E+03	2.50E+03	6.96E+02	2.69E+03	7,000	2.45E+01	1.01E+01	1.37E+01	1.65E+01	1.94E+01	2.54E+01	2.02E+01	5.41E+01	1.23E+01	1.16E+01	1.09E+01	4.28E+00	3.80E-01	1.28E+01	2.48E-01	1.06E+00	1.71E-01	8.87E+00	1.01E+01	1.80E+01	4.78E+00	1.81E+01
00067-64-1: ACETONE	180,000	3.91E+03	1.57E+03	2.88E+03	1.78E+03	2.91E+03	3.59E+03	3.04E+03	5.61E+03	2.12E+03	1.89E+03	1.45E+03	8.79E+02	1.24E+02	1.31E+03	8.04E+01	2.06E+02	4.23E+01	1.01E+03	9.59E+02	2.23E+03	6.20E+02	2.40E+03	30,000	2.02E+01	8.35E+00	1.13E+01	1.36E+01	1.60E+01	2.10E+01	1.67E+01	4.46E+01	1.02E+01	9.57E+00	8.99E+00	3.53E+00	3.13E-01	1.06E+01	2.05E-01	8.77E-01	1.41E-01	7.32E+00	8.36E+00	1.48E+01	3.94E+00	1.49E+01
00078-83-1: ISOBUTYL ALCOHOL	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	360	1.15E+02	4.72E+01	6.41E+01	7.68E+01	9.06E+01	1.19E+02	9.42E+01	2.53E+02	5.75E+01	5.41E+01	5.09E+01	2.00E+01	1.77E+00	5.98E+01	1.16E+00	4.96E+00	7.97E-01	4.14E+01	4.73E+01	8.39E+01	2.23E+01	8.46E+01
00078-93-3: METHYL ETHYL KETONE	13,000	2.97E+03	1.19E+03	2.18E+03	1.35E+03	2.21E+03	2.73E+03	2.31E+03	4.26E+03	1.61E+03	1.43E+03	1.10E+03	6.67E+02	9.44E+01	9.97E+02	6.10E+01	1.57E+02	3.21E+01	7.65E+02	7.28E+02	1.69E+03	4.70E+02	1.82E+03	5,000	1.66E+01	6.80E+00	8.94E+00	1.07E+01	1.27E+01	1.66E+01	1.32E+01	3.53E+01	8.04E+00	7.57E+00	7.10E+00	2.79E+00	2.48E-01	8.35E+00	1.62E-01	6.93E-01	1.11E-01	5.79E+00	6.61E+00	1.17E+01	3.12E+00	1.18E+01
00100-42-5: STYRENE	17,000	5.23E+03	2.11E+03	3.85E+03	2.38E+03	3.90E+03	4.81E+03	4.07E+03	7.51E+03	2.84E+03	2.52E+03	1.94E+03	1.18E+03	1.67E+02	1.76E+03	1.08E+02	2.76E+02	5.67E+01	1.35E+03	1.28E+03	2.98E+03	8.30E+02	3.21E+03	1,000	4.33E+01	1.78E+01	2.42E+01	2.90E+01	3.42E+01	4.49E+01	3.56E+01	9.54E+01	2.17E+01	2.05E+01	1.92E+01	7.55E+00	6.70E-01	2.26E+01	4.37E-01	1.87E+00	3.01E-01	1.56E+01	1.79E+01	3.17E+01	8.42E+00	3.20E+01
00108-88-3: TOLUENE	37,000	1.62E+04	6.53E+03	1.19E+04	7.39E+03	1.21E+04	1.49E+04	1.26E+04	2.33E+04	8.79E+03	7.82E+03	6.01E+03	3.65E+03	5.16E+02	5.45E+03	3.33E+02	8.56E+02	1.76E+02	4.18E+03	3.98E+03	9.24E+03	2.57E+03	9.95E+03	5,000	8.20E+01	3.38E+01	4.59E+01	5.50E+01	6.48E+01	8.50E+01	6.74E+01	1.81E+02	4.11E+01	3.87E+01	3.64E+01	1.43E+01	1.27E+00	4.28E+01	8.28E-01	3.55E+00	5.71E-01	2.96E+01	3.39E+01	6.00E+01	1.60E+01	6.05E+01
00110-19-0: ISOBUTYL ACETATE	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	565	3.99E+00	1.65E+00	2.24E+00	2.68E+00	3.16E+00	4.14E+00	3.29E+00	8.80E+00	2.00E+00	1.89E+00	1.77E+00	6.96E-01	6.17E-02	2.08E+00	4.03E-02	1.73E-01	2.78E-02	1.44E+00	1.65E+00	2.92E+00	7.77E-01	2.95E+00
00123-86-4: BUTYL ACETATE	95,000	4.01E+03	1.61E+03	2.95E+03	1.83E+03	2.99E+03	3.68E+03	3.12E+03	5.75E+03	2.17E+03	1.93E+03	1.49E+03	9.01E+02	1.28E+02	1.35E+03	8.24E+01	2.12E+02	4.34E+01	1.03E+03	9.84E+02	2.28E+03	6.35E+02	2.46E+03	17,000	2.10E+01	8.66E+00	1.18E+01	1.41E+01	1.66E+01	2.18E+01	1.73E+01	4.63E+01	1.05E+01	9.92E+00	9.32E+00	3.66E+00	3.25E-01	1.10E+01	2.12E-01	9.09E-01	1.46E-01	7.59E+00	8.67E+00	1.54E+01	4.09E+00	1.55E+01
00630-08-0: CARBON MONOXIDE	40,000	3.42E+01	1.38E+01	2.52E+01	1.56E+01	2.55E+01	3.15E+01	2.66E+01	4.91E+01	1.86E+01	1.65E+01	1.27E+01	7.70E+00	1.09E+00	1.15E+01	7.04E-01	1.81E+00	3.71E-01	8.83E+00	8.41E+00	1.95E+01	5.43E+00	2.10E+01	---	---	---	---	---	---	---	---	---	---	---	---	---	---
01314-13-2: ZINC OXIDE	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	5.90E-03	1.78E-09	7.35E-10	9.98E-10	1.19E-09	1.41E-09	1.85E-09	1.47E-09	3.93E-09	8.94E-10	8.42E-10	7.91E-10	3.11E-10	2.76E-11	9.30E-10	1.80E-11	7.72E-11	1.24E-11	6.44E-10	7.36E-10	1.30E-09	3.47E-10	1.32E-09
07446-09-5: SULFUR DIOXIDE	196	4.28E+00	1.72E+00	3.15E+00	1.95E+00	3.19E+00	3.93E+00	3.33E+00	6.14E+00	2.32E+00	2.07E+00	1.59E+00	9.63E-01	1.36E-01	1.44E+00	8.80E-02	2.26E-01	4.64E-02	1.10E+00	1.05E+00	2.44E+00	6.79E-01	2.63E+00	80	1.43E-02	5.88E-03	7.98E-03	9.56E-03	1.13E-02	1.48E-02	1.17E-02	3.14E-02	7.15E-03	6.74E-03	6.33E-03	2.49E-03	2.21E-04	7.44E-03	1.44E-04	6.18E-04	9.92E-05	5.15E-03	5.89E-03	1.04E-02	2.77E-03	1.05E-02
NY075-00-0: PARTICULATES	150	1.03E+02	3.64E+01	5.41E+01	5.47E+01	6.54E+01	8.58E+01	7.29E+01	**2.07E+02**	4.61E+01	4.46E+01	3.70E+01	3.91E+01	3.36E+00	6.66E+01	1.44E+00	4.99E+00	1.38E+00	4.38E+01	4.20E+01	9.47E+01	3.76E+01	1.20E+02	---	---	---	---	---	---	---	---	---	---	---	---	---	---
NY210-00-0: OXIDES OF NITROGEN	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
NY559-00-0: TOTAL ALIPHATIC HYD	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Jewelry / art metal craft shops																																			
00050-00-0: FORMADEHYDE	30	1.28E+01	5.17E+00	9.46E+00	5.85E+00	9.57E+00	1.18E+01	9.99E+00	1.84E+01	6.96E+00	6.20E+00	4.76E+00	2.89E+00	4.09E-01	4.31E+00	2.64E-01	6.78E-01	1.39E-01	3.31E+00	3.15E+00	7.32E+00	2.04E+00	7.88E+00	0.06	**1.56E-01**	**6.42E-02**	**8.71E-02**	**1.04E-01**	**1.23E-01**	**6.45E+02**	**1.28E-01**	**3.43E-01**	**7.81E-02**	**7.35E-02**	**6.91E-02**	2.71E-02	2.41E-03	8.12E-02	1.57E-03	6.74E-03	4.33E+00	5.62E-02	6.43E-02	1.14E-01	3.03E-02	1.15E-01
00064-17-5: ETHANOL	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	45,000	8.91E-03	3.67E-03	4.99E-03	5.97E-03	7.05E-03	9.24E-03	7.33E-03	1.96E-02	4.47E-03	4.21E-03	3.96E-03	1.55E-03	1.38E-04	4.65E-03	9.00E-05	3.86E-04	6.20E-05	3.22E-03	3.68E-03	6.52E-03	1.73E-03	6.58E-03
00067-56-1: METHANOL	33,000	4.28E+00	1.72E+00	3.15E+00	1.95E+00	3.19E+00	3.93E+00	3.33E+00	6.14E+00	2.32E+00	2.07E+00	1.59E+00	9.63E-01	1.36E-01	1.44E+00	8.80E-02	2.26E-01	4.64E-02	1.10E+00	1.05E+00	2.44E+00	6.79E-01	2.63E+00	4,000	8.91E-03	3.67E-03	4.99E-03	5.97E-03	7.05E-03	9.24E-03	7.33E-03	1.96E-02	4.47E-03	4.21E-03	3.96E-03	1.55E-03	1.38E-04	4.65E-03	9.00E-05	3.86E-04	6.20E-05	3.22E-03	3.68E-03	6.52E-03	1.73E-03	6.58E-03
00074-82-8: METHANE	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1,600	3.15E-01	1.30E-01	1.77E-01	2.11E-01	2.49E-01	3.27E-01	2.59E-01	6.96E-01	1.58E-01	1.49E-01	1.40E-01	5.50E-02	4.88E-03	1.65E-01	3.19E-03	1.37E-02	2.20E-03	1.14E-01	1.30E-01	2.31E-01	6.14E-02	2.33E-01
00074-90-8: HYDROGEN CYANIDE	520	3.27E+02	1.32E+02	2.41E+02	1.49E+02	2.44E+02	3.00E+02	2.54E+02	4.69E+02	1.77E+02	1.58E+02	1.21E+02	7.36E+01	1.04E+01	1.10E+02	6.73E+00	1.73E+01	3.54E+00	8.43E+01	8.03E+01	1.86E+02	5.19E+01	2.01E+02	0.80	2.00E-02	8.27E-03	1.12E-02	1.34E-02	1.59E-02	2.08E-02	1.65E-02	4.42E-02	1.01E-02	9.48E-03	8.90E-03	3.50E-03	3.10E-04	1.05E-02	2.03E-04	8.68E-04	1.40E-04	7.24E-03	8.28E-03	1.47E-02	3.90E-03	1.48E-02
00078-83-1: ISOBUTYL ALCOHOL	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	360	1.85E+02	7.62E+01	1.03E+02	1.24E+02	1.46E+02	1.92E+02	1.52E+02	**4.07E+02**	9.27E+01	8.73E+01	8.20E+01	3.22E+01	2.86E+00	9.64E+01	1.87E+00	8.00E+00	1.29E+00	6.68E+01	7.63E+01	1.35E+02	3.60E+01	1.36E+02
00079-01-6: TRICHLOROETHYLENE	1,500	**3.21E+03**	1.29E+03	**2.36E+03**	1.46E+03	**2.39E+03**	**2.95E+03**	**2.50E+03**	**4.61E+03**	**1.74E+03**	**1.55E+03**	1.19E+03	7.22E+02	1.02E+02	1.08E+03	6.60E+01	1.70E+02	3.48E+01	8.27E+02	7.88E+02	**1.37E+03**	5.09E+02	**1.48E+03**	18	**2.67E+01**	1.10E+01	1.50E+01	1.79E+01	**2.11E+01**	**2.77E+01**	**2.29E+01**	**5.89E+01**	1.34E+01	1.26E+01	**1.19E+01**	4.66E+00	4.13E-01	1.39E+01	2.70E-01	1.16E+00	1.86E-01	9.66E+00	1.10E+01	1.76E+01	5.20E+00	**1.78E+03**
00141-78-6: ETHYL ACETATE	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	3,400	8.91E-03	3.67E-03	4.99E-03	5.97E-03	7.05E-03	9.24E-03	7.33E-03	1.96E-02	4.47E-03	4.21E-03	3.96E-03	1.55E-03	1.38E-04	4.65E-03	9.00E-05	3.86E-04	6.20E-05	3.22E-03	3.68E-03	6.52E-03	1.73E-03	6.58E-03
00143-33-9: SODIUM CYANIDE	380	1.15E+01	4.63E+00	8.48E+00	5.25E+00	8.58E+00	1.06E+01	8.96E+00	1.65E+01	6.24E+00	5.56E+00	4.27E+00	2.59E+00	3.67E-01	3.87E+00	2.37E-01	6.08E-01	1.25E-01	2.97E+00	2.83E+00	6.56E+00	1.83E+00	7.07E+00	3.50	3.97E-02	1.64E-02	2.23E-02	2.66E-02	3.14E-02	4.12E-02	3.27E-02	8.76E-02	1.99E-02	1.88E-02	1.76E-02	6.93E-03	6.15E-04	2.07E-02	4.01E-04	1.72E-03	2.77E-04	1.44E-02	1.64E-02	2.91E-02	7.73E-03	2.93E-02
00544-92-3: COPPER CYANIDE	380	4.28E+00	1.72E+00	3.15E+00	1.95E+00	3.19E+00	3.93E+00	3.33E+00	6.14E+00	2.32E+00	2.07E+00	1.59E+00	9.63E-01	1.36E-01	1.44E+00	8.80E-02	2.26E-01	4.64E-02	1.10E+00	1.05E+00	2.44E+00	6.79E-01	2.63E+00	3.50	3.56E-02	1.47E-02	2.00E-02	2.39E-02	2.82E-02	3.69E-02	2.93E-02	7.86E-02	1.79E-02	1.68E-02	1.58E-02	6.22E-03	5.51E-04	1.86E-02	3.60E-04	1.54E-03	2.48E-04	1.29E-02	1.47E-02	2.61E-02	6.94E-03	2.63E-02
00630-08-0: CARBON MONOXIDE	40,000	3.76E+02	1.51E+02	2.77E+02	1.71E+02	2.80E+02	3.45E+02	2.92E+02	5.39E+02	2.04E+02	1.81E+02	1.39E+02	8.45E+01	1.20E+01	1.26E+02	7.73E+00	1.99E+01	4.07E+00	9.69E+01	9.23E+01	2.14E+02	5.96E+01	2.31E+02	---	---	---	---	---	---	---	---	---	---	---	---	---	---
01309-60-0: LEAD OXIDE	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.04	7.13E-05	2.94E-05	3.99E-05	4.78E-05	5.64E-05	7.39E-05	5.86E-05	1.57E-04	3.58E-05	3.37E-05	3.16E-05	1.24E-05	1.10E-06	3.72E-05	7.20E-07	3.09E-06	4.96E-07	2.58E-05	2.94E-05	5.22E-05	1.39E-05	5.26E-05
01310-73-2: SODIUM HYDROXIDE	200	7.45E+00	3.00E+00	5.49E+00	3.40E+00	5.55E+00	6.84E+00	5.79E+00	1.07E+01	4.04E+00	3.59E+00	2.76E+00	1.68E+00	2.37E-01	2.50E+00	1.53E-01	3.93E-01	8.07E-02	1.92E+00	1.83E+00	4.25E+00	1.18E+00	4.57E+00	---	---	---	---	---	---	---	---	---	---	---	---	---	---
01330-20-7: XYLENE,M,O&P MIXT.	22,000	4.62E+03	1.86E+03	3.40E+03	2.11E+03	3.45E+03	4.25E+03	3.60E+03	6.63E+03	2.51E+03	2.23E+03	1.71E+03	1.04E+03	1.47E+02	1.55E+03	9.51E+01	2.44E+02	5.01E+01	1.19E+03	1.13E+03	2.64E+03	7.33E+02	2.84E+03	30	3.08E+01	1.27E+01	1.72E+01	2.06E+01	2.44E+01	3.19E+01	2.53E+01	6.79E+01	1.55E+01	1.46E+01	1.37E+01	5.37E+00	4.76E-01	1.61E+01	3.11E-01	1.33E+00	2.14E-01	1.11E+01	1.27E+01	2.25E+01	5.99E+00	2.27E+01
01333-74-0: HYDROGEN	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
07439-92-1: LEAD	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.04	2.27E-03	9.36E-04	1.27E-03	1.52E-03	1.79E-03	2.35E-03	1.87E-03	5.00E-03	1.14E-03	1.07E-03	1.01E-03	3.96E-04	3.51E-05	1.18E-03	2.29E-05	9.83E-05	1.58E-05	8.20E-04	9.37E-04	1.66E-03	4.42E-04	1.68E-03
07440-31-5: TIN	20	4.28E+00	1.72E+00	3.15E+00	1.95E+00

Appendix H-2
Gowanus Rezoning
Project Industrial Sorces--Air Toxic Concentrations (ug/m3)

		Short-Term Time Period																Annual Time Period															
		Industrial Emission Source Development Site																Industrial Emission Source Development Site															
		Façade Horizontal Exhaust Stack[1][2]										Rooftop Vertical Exhaust Stack										Façade Horizontal Exhaust Stack[1][2]										Rooftop Vertical Exhaust Stack									
Use Groups & Pollutants	**SGC**	**Site 22**	**Site 29**	**Site 42**	**Site 44**	**Site 47**	**Site 48**	**Site P**	**Site AK**	**Site BI**	**Site BL**	**Site BO**	**Site 22**	**Site 29**	**Site 42**	**Site 44**	**Site 47**	**Site 48**	**Site P**	**Site AK**	**Site BI**	**Site BL**	**Site BO**	**AGC**	**Site 22**	**Site 29**	**Site 42**	**Site 44**	**Site 47**	**Site 48**	**Site P**	**Site AK**	**Site BI**	**Site BL**	**Site BO**	**Site 22**	**Site 29**	**Site 42**	**Site 44**	**Site 47**	**Site 48**	**Site P**	**Site AK**	**Site BI**	**Site BL**	**Site BO**
01314-13-2: ZINC OXIDE	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	5.90E-03	1.78E-08	7.35E-09	9.98E-09	1.19E-08	1.41E-08	1.85E-08	1.47E-08	3.93E-08	8.94E-09	8.42E-09	7.91E-09	3.11E-09	2.76E-10	9.30E-09	1.80E-10	7.72E-10	1.24E-10	6.44E-09	7.36E-09	1.30E-08	3.47E-09	1.32E-08
01330-20-7: XYLENE,M,O&P MIXT.	22,000	4.28E+00	1.72E+00	3.15E+00	1.95E+00	3.19E+00	3.93E+00	3.33E+00	6.14E+00	2.32E+00	2.07E+00	1.59E+00	9.63E-01	1.36E-01	1.44E+00	8.80E-02	2.26E-01	4.64E-02	1.10E+00	1.05E+00	2.44E+00	6.79E-01	2.63E+00	100	7.13E-02	2.94E-02	3.99E-02	4.78E-02	5.64E-02	7.39E-02	5.86E-02	1.57E-01	3.58E-02	3.37E-02	3.16E-02	1.24E-02	1.10E-03	3.72E-02	7.20E-04	3.09E-03	4.96E-04	2.58E-02	2.94E-02	5.22E-02	1.39E-02	5.26E-02
07446-09-5: SULFUR DIOXIDE	196	4.28E+00	1.72E+00	3.15E+00	1.95E+00	3.19E+00	3.93E+00	3.33E+00	6.14E+00	2.32E+00	2.07E+00	1.59E+00	9.63E-01	1.36E-01	1.44E+00	8.80E-02	2.26E-01	4.64E-02	1.10E+00	1.05E+00	2.44E+00	6.79E-01	2.63E+00	80	5.70E-02	2.35E-02	3.19E-02	3.82E-02	4.51E-02	5.91E-02	4.69E-02	1.26E-01	2.86E-02	2.70E-02	2.53E-02	9.95E-03	8.82E-04	2.98E-02	5.76E-04	2.47E-03	3.97E-04	2.06E-02	2.36E-02	4.18E-02	1.11E-02	4.21E-02
07732-18-5: WATER MIST	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
NY075-00-0: PARTICULATES	150	4.77E+01	1.69E+01	2.51E+01	2.54E+01	3.04E+01	3.96E+01	3.39E+01	9.60E+01	2.14E+01	2.07E+01	1.72E+01	1.81E+01	1.56E+00	3.10E+01	6.68E-01	2.32E+00	6.39E-01	2.03E+01	1.95E+01	4.40E+01	1.74E+01	5.58E+01	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
NY210-00-0: OXIDES OF NITROGEN	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
NY559-00-0: TOTAL ALIPHATIC HYD	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
NY998-00-0: TOTAL ORGANIC SOLVE	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Machinery rental or sales establishments																																														
Apparel or other textile product manufacturing																																														
00064-19-7: ACETIC ACID	3,700	7.19E+02	2.89E+02	5.30E+02	3.28E+02	5.36E+02	6.61E+02	5.59E+02	1.03E+03	3.90E+02	3.47E+02	2.67E+02	1.62E+02	2.29E+01	2.42E+02	1.48E+01	3.80E+01	7.79E+00	1.85E+02	1.77E+02	4.10E+02	1.14E+02	4.41E+02	60	5.99E+00	2.47E+00	3.35E+00	4.01E+00	4.73E+00	6.21E+00	4.93E+00	1.32E+01	3.01E+00	2.83E+00	2.66E+00	1.04E+00	9.26E-02	3.12E+00	6.05E-02	2.59E-01	4.17E-02	2.16E+00	2.47E+00	4.38E+00	1.17E+00	4.42E+00
00074-82-8: METHANE	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1,600	2.88E-01	1.19E-01	1.61E-01	1.93E-01	2.27E-01	2.98E-01	2.37E-01	6.34E-01	1.44E-01	1.36E-01	1.28E-01	5.02E-02	4.45E-03	1.50E-01	2.91E-03	1.25E-02	2.00E-03	1.04E-01	1.19E-01	2.11E-01	5.60E-02	2.12E-01
00092-52-4: BIPHENYL	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	3.10	1.96E+00	8.08E-01	1.10E+00	1.31E+00	1.55E+00	2.03E+00	1.61E+00	**4.32E+00**	9.84E-01	9.27E-01	8.70E-01	3.42E-01	3.03E-02	1.02E+00	1.98E-02	8.49E-02	1.36E-02	7.08E-01	8.10E-01	1.44E+00	3.82E-01	1.45E+00
00095-50-1: DICHLOROBENZENE, ortho	30,000	1.28E+02	5.17E-01	9.46E+01	5.85E-01	9.57E+01	1.18E+02	9.99E+01	1.84E+02	6.96E+01	6.20E+01	4.76E+01	2.89E+01	4.09E+00	4.31E+01	2.64E+00	6.78E+00	1.39E+00	3.31E+01	3.15E+01	7.32E+01	2.04E+01	7.88E+01	200	1.08E+00	4.45E-01	6.04E-01	7.23E-01	8.53E-01	1.12E+00	8.87E-01	2.38E+00	5.41E-01	5.10E-01	4.79E-01	1.88E-01	1.67E-02	5.63E-01	1.09E-02	4.67E-02	7.50E-03	3.90E-01	4.45E-01	7.89E-01	2.10E-01	7.96E-01
00106-46-7: 1,4-DICHLOROBENZENE(P)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.09	**9.80E-02**	4.04E-02	5.49E-02	6.57E-02	7.75E-02	**1.02E-01**	8.06E-02	**2.16E-01**	4.92E-02	4.63E-02	4.35E-02	1.71E-02	1.52E-03	5.11E-02	9.90E-04	4.25E-03	6.82E-04	3.54E-02	4.05E-02	7.18E-02	1.91E-02	7.24E-02
00108-88-3: TOLUENE	37,000	1.37E+03	5.51E+02	1.01E+03	6.24E+02	1.02E+03	1.26E+03	1.07E+03	1.97E+03	7.43E+02	6.61E+02	5.08E+02	3.08E+02	4.36E+01	4.60E+02	2.82E+01	7.24E+01	1.48E+01	3.53E+02	3.36E+02	7.81E+02	2.17E+02	8.41E+02	5,000	6.68E+00	2.76E+00	3.74E+00	4.48E+00	5.28E+00	6.93E+00	5.50E+00	1.47E+01	3.35E+00	3.16E+00	2.97E+00	1.17E+00	1.03E-01	3.49E+00	6.75E-02	2.89E-01	4.65E-02	2.41E+00	2.76E+00	4.89E+00	1.30E+00	4.93E+00
00111-76-2: ETHYLENGLYCOLMONBUTY	14,000	1.88E+02	7.58E+01	1.39E+02	8.59E+01	1.40E+02	1.73E+02	1.46E+02	2.70E+02	1.02E+02	9.09E+01	6.99E+01	4.24E+01	6.00E+00	6.33E+01	3.87E+00	9.95E+00	2.04E+00	4.85E+01	4.62E+01	1.07E+02	2.99E+01	1.16E+02	1,600	1.57E+00	6.47E-01	8.78E-01	1.05E+00	1.24E+00	1.63E+00	1.29E+00	3.46E+00	7.87E-01	7.41E-01	6.96E-01	2.74E-01	2.43E-02	8.18E-01	1.58E-02	6.79E-02	1.09E-02	5.67E-01	6.48E-01	1.15E+00	3.05E-01	1.16E+00
00120-82-1: TRICHLORO BENZENE	3,700	7.06E+02	2.84E+02	5.20E+02	3.22E+02	5.26E+02	6.49E+02	5.49E+02	1.01E+03	3.83E+02	3.41E+02	2.62E+02	1.59E+02	2.25E+01	2.37E+02	1.45E+01	3.73E+01	7.65E+00	1.82E+02	1.73E+02	4.03E+02	1.12E+02	4.33E+02	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
00630-08-0: CARBON MONOXIDE	40,000	3.00E+02	1.21E+02	2.21E+02	1.37E+02	2.24E+02	2.76E+02	2.34E+02	4.31E+02	1.63E+02	1.45E+02	1.11E+02	6.76E+01	9.57E+00	1.01E+02	6.18E+00	1.59E+01	3.25E+00	7.74E+01	7.38E+01	1.71E+02	4.76E+01	1.84E+02	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
07446-09-5: SULFUR DIOXIDE	196	9.15E+01	3.68E+01	6.74E+01	4.17E+01	6.82E+01	8.41E+01	7.12E+01	1.31E+02	4.96E+01	4.42E+01	3.39E+01	2.06E+01	2.91E+00	3.07E+01	1.88E+00	4.83E+00	9.91E-01	2.36E+01	2.25E+01	5.22E+01	1.45E+01	5.62E+01	80	4.07E-01	1.68E-01	2.28E-01	2.73E-01	3.22E-01	4.22E-01	3.35E-01	8.98E-01	2.04E-01	1.92E-01	1.81E-01	7.10E-02	6.30E-03	2.12E-01	4.11E-03	1.76E-02	2.83E-03	1.47E-01	1.68E-01	2.98E-01	7.92E-02	3.01E-01
07664-41-7: AMMONIA	2,400	2.09E+02	8.42E+01	1.54E+02	9.54E+01	1.56E+02	1.92E+02	1.63E+02	3.00E+02	1.13E+02	1.01E+02	7.76E+01	4.71E+01	6.66E+00	7.03E+01	4.30E+00	1.11E+01	2.27E+00	5.39E+01	5.14E+01	1.19E+02	3.32E+01	1.28E+02	100	1.74E+00	7.18E-01	9.76E-01	1.17E+00	1.38E+00	1.81E+00	1.43E+00	3.84E+00	8.74E-01	8.23E-01	7.73E-01	3.04E-01	2.69E-02	9.09E-01	1.76E-02	7.55E-02	1.21E-02	6.30E-01	7.20E-01	1.28E+00	3.39E-01	1.29E+00
07732-18-5: WATER MIST	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
08002-05-9: PETROLEUM DISTILLATES	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
10102-43-9: NITROGEN OXIDE	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	74	1.78E+01	7.33E+00	9.96E+00	1.19E+01	1.41E+01	1.84E+01	1.46E+01	3.92E+01	8.93E+00	8.41E+00	7.90E+00	3.10E+00	2.75E-01	9.28E+00	1.80E-01	7.70E-01	1.24E-01	6.43E+00	7.35E+00	1.30E+01	3.46E+00	1.31E+01
10102-44-0: NITROGEN DIOXIDE	188	2.57E+01	1.03E+01	1.89E+01	1.17E+01	1.91E+01	2.36E+01	2.00E+01	3.68E+01	1.39E+01	1.24E+01	9.53E+00	5.78E+00	8.18E-01	8.63E+00	5.28E-01	1.36E+00	2.78E-01	6.62E+00	6.31E+00	1.46E+01	4.07E+00	1.58E+01	100	1.64E+00	6.76E-01	9.18E-01	1.10E+00	1.30E+00	1.70E+00	1.35E+00	3.62E+00	8.23E-01	7.75E-01	7.28E-01	2.86E-01	2.54E-02	8.55E-01	1.66E-02	7.10E-02	1.14E-02	5.92E-01	6.77E-01	1.20E+00	3.19E-01	1.21E+00
68476-39-1: HYDROCARBON MISC.	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
NY075-00-0: PARTICULATES	150	6.41E+01	2.27E+01	3.37E+01	3.41E+01	4.08E+01	5.35E+01	4.55E+01	1.29E+02	2.88E+01	2.78E+01	2.31E+01	2.44E+01	2.10E+00	4.16E+01	8.97E-01	3.11E+00	8.59E-01	2.73E+01	2.62E+01	5.91E+01	2.34E+01	7.49E+01	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
NY105-00-0: LIQUID MIST NEC	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
NY210-00-0: OXIDES OF NITROGEN	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
NY439-00-0: TOTAL AROMATIC HYDRO	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
NY495-00-0: TOTAL HYDROCARBONS	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
NY550-00-0: ALIPHATIC HYDROCARB	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
NY920-00-0: PAINT THINNER	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Bottling of all beverage types																																														
01335-25-7: LEAD OXIDE	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.04	1.78E-04	7.35E-05	9.98E-05	1.19E-04	1.41E-04	1.85E-04	1.47E-04	3.93E-04	8.94E-05	8.42E-05	7.91E-05	3.11E-05	2.76E-06	9.30E-05	1.80E-06	7.72E-06	1.24E-06	6.44E-05	7.36E-05	1.30E-04	3.47E-05	1.32E-04
NY075-00-0: PARTICULATES	150	3.18E+01	1.28E+01	2.35E+01	1.45E+01	2.37E+01	2.93E+01	2.48E+01	4.57E+01	1.73E+01	1.54E+01	1.18E+01	7.16E+00	1.01E+00	1.07E+01	6.55E-01	1.68E+00	3.45E-01	8.21E+00	7.82E+00	1.82E+01	5.05E+00	1.95E+01	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
NY909-00-0: TOTAL ORGANICS	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
NY930-00-0: ORGANIC SOLVENTS	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Canvas or canvas product manufacturing																																														
00064-17-5: ETHANOL	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	45,000	7.13E+00	2.94E+00	3.99E+00	4.78E+00	5.64E+00	7.39E+00	5.86E+00	1.57E+01	3.58E+00	3.37E+00	3.16E+00	1.24E+00	1.10E-01	3.72E+00	7.20E-02	3.09E-01	4.96E-02	2.58E+00	2.94E+00	5.22E+00	1.39E+00	5.26E+00
00067-63-0: ISOPROPYL ALCOHOL	98,000	1.88E+03	7.58E+02	1.39E+03	8.59E+02	1.40E+03	1.73E+03	1.46E+03	2.70E+03	1.02E+03	9.09E+02	6.99E+02	4.24E+02	6.00E+01	6.33E+02	3.87E+01	9.95E+01	2.04E+01	4.85E+02	4.62E+02	1.07E+03	2.99E+02	1.16E+03	7,000	1.96E+00	8.08E-01	1.10E+00	1.31E+00	1.55E+00	2.03E+00	1.61E+00	4.32E+00	9.84E-01	9.27E-01	8.70E-01	3.42E-01	3.03E-02	1.02E+00	1.98E-02	8.49E-02	1.36E-02	7.08E-01	8.10E-01	1.44E+00	3.82E-01	1.45E+00
00067-64-1: ACETONE	180,000	3.27E+03	1.32E+03	2.41E+03	1.49E+03	2.44E+03	3.00E+03	2.54E+03	4.69E+03	1.77E+03	1.58E+03	1.21E+03	7.36E+02	1.04E+02	1.10E+03	6.73E+01	1.73E+02	3.54E+01	8.43E+02	8.03E+02	1.86E+03	5.19E+02	2.01E+03	30,000	1.57E+00	6.46E-01	8.77E-01	1.05E+00	1.24E+00	1.62E+00	1.29E+00	3.45E+00	7.86E-01	7.40E-01	6.95E-01	2.73E-01	2.42E-02	8.17E-01	1.58E-02	6.78E-02	1.09E-02	5.66E-01	6.47E-01	1.15E+00	3.05E-01	1.16E+00
00078-93-3: METHYL ETHYL KETONE	13,000	3.77E+03	1.52E+03	2.77E+03	1.72E+03	2.81E+03	3.46E+03	2.93E+03	5.40E+03	2.04E+03	1.82E+03	1.40E+03	8.47E+02	1.20E+02	1.27E+03	7.75E+01	1.99E+02	4.08E+01	9.71E+02	9.25E+02	2.15E+03	5.97E+02	2.31E+03	5,000	3.92E+00	1.62E+00	2.20E+00	2.63E+00	3.10E+00	4.06E+00	3.22E+00	8.65E+00	1.97E+00	1.85E+00	1.74E+00	6.84E-01	6.06E-02	2.05E+00	3.96E-02	1.70E-01	2.73E-02	1.42E+00	1.62E+00	2.87E+00	7.63E-01	2.89E+00
00107-98-2: PROPYLENE GLYCOL METHYL ET	36,850	2.40E+02	9.65E+01	1.77E+02	1.09E+02	1.79E+02	2.20E+02	1.86E+02	3.44E+02	1.30E+02	1.16E+02	8.89E+01	5.39E+01	7.63E+00	8.05E+01	4.93E+00	1.27E+01	2.60E+00	6.18E+01	5.88E+01	1.37E+02	3.80E+01	1.47E+02	2,000	2.49E+01	1.03E-01	1.40E+01	1.67E-01	1.97E-01	2.59E-01	2.05E-01	5.50E-01	1.25E-01	1.18E-01	1.11E-01	4.35E-02	3.86E-03	1.30E-01	2.52E-03	1.08E-02	1.74E-03	9.02E-02	1.03E-01	1.83E-01	4.86E-02	1.84E-01
00108-10-1: METHYL ISOBUTYL KETONE	31,000	2.82E+03	1.14E+03	2.08E+03	1.29E+03	2.11E+03	2.60E+03	2.20E+03	4.05E+03	1.53E+03	1.36E+03	1.05E+03	6.35E+02	8.99E+01	9.49E+02	5.81E+01	1.49E+02	3.06E+01	7.28E+02	6.94E+02	1.61E+03	4.48E+02	1.73E+03	3,000	2.94E+00	1.21E+00	1.65E+00	1.97E+00	2.33E+00	3.05E+00	2.42E+00	6.48E+00	1.48E+00	1.39E+00	1.31E+00	5.13E-01	4.55E-02	1.53E+00	2.97E-02	1.27E-01	2.05E-02	1.06E+00	1.21E+00	2.15E+00	5.72E-01	2.17E+00
00123-86-4: BUTYL ACETATE	95,000	8.13E+03	3.27E+03	5.99E+03	3.71E+03	6.06E+03	7.47E+03	6.33E+03	1.17E+04	4.41E+03	3.92E+03	3.02E+03	1.83E+03	2.59E+02	2.73E+03	1.67E+02	4.30E+02	8.81E+01	2.10E+03	2.00E+03	4.64E+03	1.29E+03	4.99E+03	17,000	5.34E-01	2.20E-01	2.99E-01	3.58E-01	4.23E-01	5.54E-01	4.40E-01	1.18E+00	2.68E-01	2.53E-01	2.37E-01	9.32E-02	8.27E-03	2.79E-01	5.40E-03	2.32E-02	3.72E-03	1.93E-01	2.21E-01	3.91E-01	1.04E-01	3.95E-01
07732-18-5: WATER MIST	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
34590-94-8: DIPROPYLENE GLYCOL METHYL ETHER	91,000	1.20E+02	4.82E+01	8.83E+01	5.46E+01	8.93E+01	1.10E+02	9.32E+01	1.72E+02	6.50E+01	5.78E+01	4.45E+01	2.70E+01	3.82E+00	4.03E+01	2.46E+00	6.33E+00	1.30E+00	3.09E+01	2.94E+01	6.83E+01	1.90E+01	7.35E+01	1,400	1.25E-01	5.14E-02	6.98E-02	8.36E-02	9.86E-02	1.29E-01	1.03E-01	2.75E-01	6.26E-02	5.90E-02	5.54E-02	2.18E-02	1.93E-03	6.51E-02	1.26E-03	5.40E-03	8.68E-04	4.51E-02	5.15E-02	9.13E-02	2.43E-02	9.21E-02
64742-89-8: NAPHTHA LIGHT ALIPHATIC	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	3,200	1.40E+02	5.78E+01	7.84E+01	9.39E+01	1.11E+02	1.45E+02	1.15E+02	3.09E+02	7.03E+01	6.62E+01	6.22E+01	2.44E+01	2.17E+00	7.31E+01	1.41E+00	6.07E+00	9.75E-01	5.06E+01	5.79E+01	1.03E+02	2.73E+01	1.03E+02
NY075-00-0: PARTICULATES	150	3.48E+01	1.23E+01	1.83E+01	1.85E+01	2.22E+01	2.91E+01	2.47E+01	7.00E+01	1.56E+01	1.51E+01	1.25E+01	1.32E+01	1.14E+00	2.26E+01	4.87E-01	1.69E+00	4.67E-01	1.48E+01	1.42E+01	3.21E+01	1.27E+01	4.07E+01	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
NY990-00-0: MISCELLANEOUS ORG	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cork product manufacturing																																														
Fur good manufacturing (excl. tanning/dyeing)																																														
00078-59-1: ISOPHORONE	2,800	5.39E+02	2.17E+02	3.97E+02	2.46E+02	4.02E+02	4.96E+02	4.19E+02	7.74E+02	2.93E+02	2.60E+02	2.00E+02	1.21E+02	1.72E+01	1.81E+02	1.11E+01	2.85E+01	5.84E+00	1.39E+02	1.32E+02	3.07E+02	8.55E+01	3.31E+02	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
00108-10-1: METHYL ISOBUTYL KETONE	31,000	5.99E+02	2.41E+02	4.41E+02	2.73E+02	4.47E+02	5.51E+02	4.66E+02	8.60E+02	3.25E+02	2.89E+02	2.22E+02	1.35E+02	1.91E+01	2.01E+02	1.23E+01	3.17E+01	6.49E+00	1.54E+02	1.47E+02	3.42E+02	9.50E+01	3.68E+02	3,000	5.19E+00	2.14E+00	2.91E+00	3.48E+00	4.10E+00	5.38E+00	4.27E+00	1.14E+01	2.60E+00	2.45E+00	2.30E+00	9.05E-01	8.03E-02	2.71E+00	5.24E-02	2.25E-01	3.61E-02	1.88E+00	2.14E+00	3.80E+00	1.01E+00	3.83E+00
00110-82-7: CYCLOHEXANE	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	--

Appendix H-2
Gowanus Rezoning
Project Industrial Sorces--Air Toxic Concentrations (ug/m3)

		Short-Term Time Period																						Annual Time Period											
		Industrial Emission Source Development Site																						Industrial Emission Source Development Site											
		Façade Horizontal Exhaust Stack [1]										Rooftop Vertical Exhaust Stack												Façade Horizontal Exhaust Stack [1]										Rooftop Vertical Exhaust Stack											
Use Groups & Pollutants	**SGC**	**Site 22**	**Site 29**	**Site 42**	**Site 44**	**Site 47**	**Site 48**	**Site P**	**Site AK**	**Site BI**	**Site BL**	**Site BO**	**Site 22**	**Site 29**	**Site 42**	**Site 44**	**Site 47**	**Site 48**	**Site P**	**Site AK**	**Site BI**	**Site BL**	**Site BO**	**AGC**	**Site 22**	**Site 29**	**Site 42**	**Site 44**	**Site 47**	**Site 48**	**Site P**	**Site AK**	**Site BI**	**Site BL**	**Site BO**	**Site 22**	**Site 29**	**Site 42**	**Site 44**	**Site 47**	**Site 48**	**Site P**	**Site AK**	**Site BI**	**Site BL**	**Site BO**
Scenery construction manufacturing																																													
00108-88-3: TOLUENE	37,000	9.24E+03	3.72E+03	6.81E+03	4.21E+03	6.89E+03	8.50E+03	7.19E+03	1.33E+04	5.01E+03	4.46E+03	3.43E+03	2.08E+03	2.94E+02	3.11E+03	1.90E+02	4.88E+02	1.00E+02	2.38E+03	2.27E+03	5.27E+03	1.47E+03	5.67E+03	5,000	2.31E+01	9.52E+00	1.29E+01	1.55E+01	1.83E+01	2.39E+01	1.90E+01	5.09E+01	1.16E+01	1.09E+01	1.03E+01	4.03E+00	3.57E-01	1.20E+01	2.33E-01	1.00E+00	1.61E-01	8.35E+00	9.54E+00	1.69E+01	4.50E+00	1.70E+01
NY075-00-0: PARTICULATES	150	8.04E+01	2.85E+01	4.23E+01	4.28E+01	5.12E+01	6.71E+01	5.70E+01	**1.62E+02**	3.61E+01	3.49E+01	2.90E+01	3.06E+01	2.63E+00	5.22E+01	1.12E+00	3.90E+00	1.08E+00	3.43E+01	3.28E+01	7.41E+01	2.94E+01	9.40E+01	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Shoddy (rag) manufacturing																																													
Soap or detergent packaging																																													
00064-17-5: ETHANOL	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	45,000	2.67E-02	1.10E-02	1.50E-02	1.79E-02	2.11E-02	2.77E-02	2.20E-02	5.89E-02	1.34E-02	1.26E-02	1.19E-02	4.66E-03	4.13E-04	1.39E-02	2.70E-04	1.16E-03	1.86E-04	9.66E-03	1.10E-02	1.96E-02	5.20E-03	1.97E-02
00151-50-8: POTASSIUM CYANIDE	380	4.28E+00	1.72E+00	3.15E+00	1.95E+00	3.19E+00	3.93E+00	3.33E+00	6.14E+00	2.32E+00	2.07E+00	1.59E+00	9.63E-01	1.36E-01	1.44E+00	8.80E-02	2.26E-01	4.64E-02	1.10E+00	1.05E+00	2.44E+00	6.79E-01	2.63E+00	3.50	2.85E-02	1.18E-02	1.60E-02	1.91E-02	2.25E-02	2.96E-02	2.35E-02	6.29E-02	1.43E-02	1.35E-02	1.27E-02	4.97E-03	4.41E-04	1.49E-02	2.88E-04	1.24E-03	1.98E-04	1.03E-02	1.18E-02	2.09E-02	5.55E-03	2.10E-02
00557-05-1: ZINC STEARATE	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	24	2.14E-02	8.82E-03	1.20E-02	1.43E-02	1.69E-02	2.22E-02	1.76E-02	4.72E-02	1.07E-02	1.01E-02	9.49E-03	3.73E-03	3.31E-04	1.12E-02	2.16E-04	9.26E-04	1.49E-04	7.73E-03	8.83E-03	1.57E-02	4.16E-03	1.58E-02
00630-08-0: CARBON MONOXIDE	40,000	8.56E+00	3.45E+00	6.31E+00	3.90E+00	6.38E+00	7.87E+00	6.66E+00	1.23E+01	4.64E+00	4.13E+00	3.18E+00	1.93E+00	2.73E-01	2.88E+00	1.76E-01	4.52E-01	9.27E-02	2.21E+00	2.10E+00	4.88E+00	1.36E+00	5.25E+00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
01306-19-0: CADMIUM OXIDE	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	2.70E-04	2.14E-04	8.82E-05	1.20E-04	1.43E-04	1.69E-04	2.22E-04	1.76E-04	**4.72E-04**	1.07E-04	1.01E-04	9.49E-05	3.73E-05	3.31E-06	1.12E-04	2.16E-06	9.26E-06	1.49E-06	7.73E-05	8.83E-05	1.57E-04	4.16E-05	1.58E-04
01310-73-2: SODIUM HYDROXIDE	200	4.28E+00	1.72E+00	3.15E+00	1.95E+00	3.19E+00	3.93E+00	3.33E+00	6.14E+00	2.32E+00	2.07E+00	1.59E+00	9.63E-01	1.36E-01	1.44E+00	8.80E-02	2.26E-01	4.64E-02	1.10E+00	1.05E+00	2.44E+00	6.79E-01	2.63E+00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
07428-48-0: LEAD STEARATE	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.09	1.07E-02	4.41E-03	5.99E-03	7.17E-03	8.46E-03	1.11E-02	8.79E-03	2.36E-02	5.37E-03	5.05E-03	4.75E-03	1.86E-03	1.65E-04	5.58E-03	1.08E-04	4.63E-04	7.44E-05	3.86E-03	4.42E-03	7.83E-03	2.08E-03	7.89E-03
07446-09-5: SULFUR DIOXIDE	196	2.02E-01	8.13E+00	1.49E+01	9.21E+00	1.51E+01	1.86E+01	1.57E+01	2.90E+01	1.10E+01	9.75E+00	7.49E+00	4.54E+00	6.43E-01	6.79E+00	4.15E-01	1.07E+00	2.19E-01	5.21E+00	4.96E+00	1.15E+01	3.20E+00	1.24E+01	80	1.68E-01	6.92E-02	9.39E-02	1.12E-01	1.33E-01	1.74E-01	1.38E-01	3.70E-01	8.42E-02	7.93E-02	7.45E-02	2.93E-02	2.59E-03	8.75E-02	1.69E-03	7.26E-03	1.17E-03	6.06E-02	6.93E-02	1.23E-01	3.26E-02	1.24E-01
07647-01-0: HYDROGEN CHLORIDE	2,100	4.28E+01	1.72E+01	3.15E+01	1.95E+01	3.19E+01	3.93E+01	3.33E+01	6.14E+01	2.32E+01	2.07E+01	1.59E+01	9.63E+00	1.36E+00	1.44E+01	8.80E-01	2.26E+00	4.64E-01	1.10E+01	1.05E+01	2.44E+01	6.79E+00	2.63E+01	20	1.14E-02	4.70E-03	6.39E-03	7.65E-03	9.02E-03	1.18E-02	9.38E-03	2.52E-02	5.72E-03	5.39E-03	5.06E-03	1.99E-03	1.76E-04	5.95E-03	1.15E-04	4.94E-04	7.94E-05	4.12E-03	4.71E-03	8.35E-03	2.22E-03	8.42E-03
07664-41-7: AMMONIA	2,400	4.28E+00	1.72E+00	3.15E+00	1.95E+00	3.19E+00	3.93E+00	3.33E+00	6.14E+00	2.32E+00	2.07E+00	1.59E+00	9.63E-01	1.36E-01	1.44E+00	8.80E-02	2.26E-01	4.64E-02	1.10E+00	1.05E+00	2.44E+00	6.79E-01	2.63E+00	100	2.85E-02	1.18E-02	1.60E-02	1.91E-02	2.25E-02	2.96E-02	2.35E-02	6.29E-02	1.43E-02	1.35E-02	1.27E-02	4.97E-03	4.41E-04	1.49E-02	2.88E-04	1.24E-03	1.98E-04	1.03E-02	1.18E-02	2.09E-02	5.55E-03	2.10E-02
07664-93-9: SULFURIC ACID	120	1.28E+01	5.17E+00	9.46E+00	5.85E+00	9.57E+00	1.18E+01	9.99E+00	1.84E+01	6.96E+00	6.20E+00	4.76E+00	2.89E+00	4.09E-01	4.31E+00	2.64E-01	6.78E-01	1.39E-01	3.31E+00	3.15E+00	7.32E+00	2.04E+00	7.88E+00	1.00	5.34E-05	2.20E-05	2.99E-05	3.58E-05	4.23E-05	5.54E-05	4.40E-05	1.18E-04	2.68E-05	2.53E-05	2.37E-05	9.32E-06	8.27E-07	2.79E-05	5.40E-07	2.32E-06	3.72E-07	1.93E-05	2.21E-05	3.91E-05	1.04E-05	3.95E-05
07697-37-2: NITRIC ACID	86	4.28E+00	1.72E+00	3.15E+00	1.95E+00	3.19E+00	3.93E+00	3.33E+00	6.14E+00	2.32E+00	2.07E+00	1.59E+00	9.63E-01	1.36E-01	1.44E+00	8.80E-02	2.26E-01	4.64E-02	1.10E+00	1.05E+00	2.44E+00	6.79E-01	2.63E+00	12	3.56E-02	1.47E-02	2.00E-02	2.39E-02	2.82E-02	3.69E-02	2.93E-02	7.86E-02	1.79E-02	1.68E-02	1.58E-02	6.22E-03	5.51E-04	1.86E-02	3.60E-04	1.54E-03	2.48E-04	1.29E-02	1.47E-02	2.61E-02	6.94E-03	2.63E-02
07732-18-5: WATER MIST	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
08002-74-2: 0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
NY075-00-0: PARTICULATES	150	5.82E+01	2.06E+01	3.07E+01	3.10E+01	3.71E+01	4.86E+01	4.13E+01	1.17E+02	2.61E+01	2.53E+01	2.10E+01	2.21E+01	1.91E+00	3.78E+01	8.15E-01	2.83E+00	7.80E-01	2.48E+01	2.38E+01	5.37E+01	2.13E+01	6.81E+01	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
NY090-00-0: OIL MIST	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
NY104-00-0: BASIC MIST NEC	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
NY210-00-0: OXIDES OF NITROGEN	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
NY550-00-0: ALIPHATIC HYDROCARB	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Textile spinning, weaving, manufacturing, dyeing, printing																																													
00078-59-1: ISOPHORONE	2,800	5.39E+02	2.17E+02	3.97E+02	2.46E+02	4.02E+02	4.96E+02	4.19E+02	7.74E+02	2.93E+02	2.60E+02	2.00E+02	1.21E+02	1.72E+01	1.81E+02	1.11E+01	2.85E+01	5.84E+00	1.39E+02	1.32E+02	3.07E+02	8.55E+01	3.31E+02	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
00108-10-1: METHYL ISOBUTYL KETONE	31,000	5.99E+02	2.41E+02	4.41E+02	2.73E+02	4.47E+02	5.51E+02	4.66E+02	8.60E+02	3.25E+02	2.89E+02	2.22E+02	1.35E+02	1.91E+01	2.01E+02	1.23E+01	3.17E+01	6.49E+00	1.54E+02	1.47E+02	3.42E+02	9.50E+01	3.68E+02	3,000	5.19E+00	2.14E+00	2.91E+00	3.48E+00	4.10E+00	5.38E+00	4.27E+00	1.14E+01	2.60E+00	2.45E+00	2.30E+00	9.05E-01	8.03E-02	2.71E+00	5.24E-02	2.25E-01	3.61E-02	1.88E+00	2.14E+00	3.80E+00	1.01E+00	3.83E+00
00110-82-7: CYCLOHEXANE	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	6,000	2.62E+01	1.08E+01	1.47E+01	1.76E+01	2.07E+01	2.72E+01	2.16E+01	5.78E+01	1.32E+01	1.24E+01	1.16E+01	4.57E+00	4.05E-01	1.37E+01	2.65E-01	1.14E+00	1.82E-01	9.47E+00	1.08E+01	1.92E+01	5.10E+00	1.93E+01
00630-08-0: CARBON MONOXIDE	40,000	5.40E+02	2.17E+02	3.98E+02	2.46E+02	4.02E+02	4.96E+02	4.20E+02	7.75E+02	2.93E+02	2.61E+02	2.00E+02	1.21E+02	1.72E+01	1.81E+02	1.11E+01	2.85E+01	5.85E+00	1.39E+02	1.33E+02	3.08E+02	8.56E+01	3.31E+02	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
07446-09-5: SULFUR DIOXIDE	196	1.96E+01	7.89E+00	1.44E+01	8.94E+00	1.46E+01	1.80E+01	1.52E+01	2.81E+01	1.06E+01	9.46E+00	7.27E+00	4.41E+00	6.24E-01	6.59E+00	4.03E-01	1.04E+00	2.12E-01	5.05E+00	4.81E+00	1.12E+01	3.11E+00	1.20E+01	80	1.63E-01	6.74E-02	9.16E-02	1.10E-01	1.29E-01	1.69E-01	1.34E-01	3.61E-01	8.21E-02	7.73E-02	7.26E-02	2.85E-02	2.53E-03	8.53E-02	1.65E-03	7.08E-03	1.14E-03	5.91E-02	6.75E-02	1.20E-01	3.18E-02	1.21E-01
07732-18-5: WATER MIST	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
08002-05-9: PETROLEUM DISTILLATES	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
NY075-00-0: PARTICULATES	150	6.01E+01	2.13E+01	3.16E+01	3.20E+01	3.82E+01	5.02E+01	4.26E+01	1.21E+02	2.70E+01	2.61E+01	2.16E+01	2.28E+01	1.97E+00	3.90E+01	8.41E-01	2.92E+00	8.05E-01	2.56E+01	2.45E+01	5.54E+01	2.20E+01	7.02E+01	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
NY090-00-0: OIL MIST	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
NY210-00-0: OXIDES OF NITROGEN	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
NY550-00-0: ALIPHATIC HYDROCARB	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
NY920-00-0: PAINT THINNER	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Upholstering in bulk																																													
00108-88-3: TOLUENE	37,000	1.85E+04	7.44E+03	1.36E+04	8.43E+03	1.38E+04	1.70E+04	1.44E+04	2.65E+04	1.00E+04	8.92E+03	6.86E+03	4.16E+03	5.89E+02	6.21E+03	3.80E+02	9.77E+02	2.00E+02	4.77E+03	4.54E+03	1.05E+04	2.93E+03	1.13E+04	5,000	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	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
NY075-00-0: PARTICULATES	150	8.98E+01	3.18E+01	4.73E+01	4.78E+01	5.72E+01	7.50E+01	6.37E+01	**1.81E+02**	4.03E+01	3.90E+01	3.24E+01	3.41E+01	2.94E+00	5.82E+01	1.26E+00	4.36E+00	1.20E+00	3.83E+01	3.67E+01	8.28E+01	3.28E+01	1.05E+02	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Wax product manufacturing																																													
Agriculture, incl. greenhouses, nursuries, and truck (produce) gardens																																													
Docks for passenger vessels (no limit)																																													
Docks for sightseeing, excusion, or sport fishing vessels (no limit)																																													
Public transit, railroad, or electric utility substations (no limit)																																													
Railroad yards, r-o-w, terminals, facilities (excl. passenger stations)																																													
Truck weighing stations																																													
Truck terminals (no limit)																																													
Breweries and alcoholic beverage manufacturing																																													
00050-00-0: FORMADEHYDE	30	5.99E+00	2.41E+00	4.41E+00	2.73E+00	4.47E+00	5.51E+00	4.66E+00	8.60E+00	3.25E+00	2.89E+00	2.22E+00	1.35E+00	1.91E-01	2.01E+00	1.23E-01	3.17E-01	6.49E-02	1.54E+00	1.47E+00	3.42E+00	9.50E-01	3.68E+00	0.06	3.03E-02	1.25E-02	1.70E-02	2.03E-02	2.40E-02	3.14E-02	2.49E-02	**6.68E-02**	1.52E-02	1.43E-02	1.34E-02	5.28E-03	4.69E-04	1.58E-02	3.06E-04	1.31E-03	2.11E-04	1.09E-02	1.25E-02	2.22E-02	5.90E-03	2.24E-02
00064-17-5: ETHANOL	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	45,000	3.03E-02	1.25E-02	1.70E-02	2.03E-02	2.40E-02	3.14E-02	2.49E-02	6.68E-02	1.52E-02	1.43E-02	1.34E-02	5.28E-03	4.69E-04	1.58E-02	3.06E-04	1.31E-03	2.11E-04	1.09E-02	1.25E-02	2.22E-02	5.90E-03	2.24E-02
00075-07-0: ACETALDEHYDE	470	5.99E+00	2.41E+00	4.41E+00	2.73E+00	4.47E+00	5.51E+00	4.66E+00	8.60E+00	3.25E+00	2.89E+00	2.22E+00	1.35E+00	1.91E-01	2.01E+00	1.23E-01	3.17E-01	6.49E-02	1.54E+00	1.47E+00	3.42E+00	9.50E-01	3.68E+00	0.45	3.03E-02	1.25E-02	1.70E-02	2.03E-02	2.40E-02	3.14E-02	2.49E-02	6.68E-02	1.52E-02	1.43E-02	1.34E-02	5.28E-03	4.69E-04	1.58E-02	3.06E-04	1.31E-03	2.11E-04	1.09E-02	1.25E-02	2.22E-02	5.90E-03	2.24E-02
00141-78-6: ETHYL ACETATE	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	3,400	3.03E-02	1.25E-02	1.70E-02	2.03E-02	2.40E-02	3.14E-02	2.49E-02	6.68E-02	1.52E-02	1.43E-02	1.34E-02	5.28E-03	4.69E-04	1.58E-02	3.06E-04	1.31E-03	2.11E-04	1.09E-02	1.25E-02	2.22E-02	5.90E-03	2.24E-02
NY075-00-0: PARTICULATES	150	7.20E+01	2.55E+01	37.88	38.31	45.80	60.09	51.05	144.73	32.29	31.24	25.93	2.74E+01	2.35E+00	46.67	1.01	3.49	0.96	30.67	29.39	66.32	26.30	84.11	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Exceedances of SGC/AGC threshold in **bold**.

Notes:
(1) Based on modeled results for façade horizontal exhaust stacks, development sites were restricted to exclusively utilize exhaust designs with rooftop vertical exhaust stacks.

Appendix H
Proposed Air Quality (E) Designations

Appendix H-3: Proposed Air Quality (E) Designations

A. INTRODUCTION

Under the proposed zoning, (E) Designations are proposed to avoid impacts on privately owned parcels on projected or potential development sites with respect to air quality (heating and hot water systems and potential industrial uses). A description of the requirements of those (E) Designations follows. A list of the sites, blocks, and lots affected by the (E) Designations is presented in **Tables H-3-1** through **H-3-3**.

B. PROPOSED (E) DESIGNATIONS

HEATING AND HOT WATER SYSTEM (E) DESIGNATIONS

Under the Proposed Actions, for each of the 79 projected and potential development sites (31 projected and 48 potential development sites) development sites that failed the heating and hot water system screening analysis, a refined analysis was performed utilizing the AERMOD dispersion model (see Chapter 15," Air Quality"). The results indicated that all but seven of the 79 sites that failed the screening analysis for No. 2 oil also failed the refined analysis, and 60 of 66 sites that failed the screening analysis for natural gas also failed the refined analysis.

To preclude the potential for significant adverse air quality impacts on other projected and potential developments from the heating and hot water system emissions, an (E) Designation would be incorporated into the proposed rezoning for each of the affected sites. The descriptions and requirements of the proposed (E) Designations for these sites with respect to heating and hot water systems are presented in **Tables H-3-1 and H-3-2**.

Table H-3-1
(E) Designations for Projected Development Sites
(Heating and Hot Water System Restrictions)

Development Site	Block	Lots	Proposed (E) Designation
1	395	30, 32, 33, 34, 35, 36, 37	Any new residential and/or commercial development must exclusively use natural gas as the type of fuel for heating and hot water systems, to avoid any potential significant air quality impacts.
4	399	58, 59, 60	Any new residential and/or commercial development must exclusively use natural gas as the type of fuel for heating and hot water systems, and ensure that heating and hot water stack(s) is located at least 85 feet above grade, to avoid any potential significant air quality impacts.

Table H-3-1 (cont'd)
(E) Designations for Projected Development Sites
(Heating and Hot Water System Restrictions)

Development Site	Block	Lots	Proposed (E) Designation
6	405	12, 63, 64	Any new residential and/or commercial development must ensure that heating and hot water system stack(s) is located at least 88 feet above grade, to avoid any potential significant air quality impacts.
5	405	13, 14, 15, 16	Any new residential and/or commercial development must exclusively use natural gas as the type of fuel for heating and hot water systems, to avoid any potential significant air quality impacts.
7	405	27	Any new residential and/or commercial development must be fitted with low NOx (30 ppm) burners firing only natural gas for heating and hot water systems, and ensure that the heating and hot water system stack(s) is located at least 85 feet above grade, to avoid any potential significant air quality impacts.
9	407	8, 9	Any new residential and/or commercial development must be fitted with low NOx (30 ppm) burners firing only natural gas for heating and hot water systems, and ensure that the heating and hot water systems stack(s) is located at least 12 feet away from the lot line facing 3rd Avenue, to avoid any potential significant air quality impacts.
13	412	18, 19, 20, 45, 48	Any new residential and/or commercial development must **EITHER** be fitted with low NOx (30 ppm) burners firing only natural gas for heating and hot water systems, and ensure that the heating and hot water systems stack(s) is located at the highest tier and least 45 feet away from the lot line facing Nevins Street; **OR** must be fitted with low NO_x (30 ppm) burners firing natural gas for heating and hot water systems, and ensure that heating and hot water stack(s) is located at least 128 feet above grade, to avoid any potential significant air quality impacts.
14	413	1, 2, 7	Any new residential and/or commercial development must exclusively use natural gas as the type of fuel for heating and hot water systems, and ensure that the heating and hot water system stack(s) is located at least 125 feet above grade, to avoid any potential significant air quality impacts.
15	417	1, 10, 14, 21	Any new residential and/or commercial development must ensure that heating and hot water system stack(s) is located at least 213 feet above grade, to avoid any potential significant air quality impacts.

Table H-3-1 (cont'd)
(E) Designations for Projected Development Sites
(Heating and Hot Water System Restrictions)

Development Site	Block	Lots	Proposed (E) Designation
18	424	1, 20	Any new residential and/or commercial development must be fitted with low NOx (30 ppm) burners firing only natural gas for heating and hot water systems, and ensure that heating and hot water system stack(s) is located at least 191 feet above grade, to avoid any potential significant air quality impacts.[1]
19	426	17, 44, 49	Any new residential and/or commercial development must be fitted with low NOx (30 ppm) burners firing only natural gas for heating and hot water systems, ensure that the heating and hot water systems stack(s) is located at least 10 feet away from the lot line facing Nevins Street and ensure that the heating and hot water system stack(s) is located at least 123 feet above grade, to avoid any potential significant air quality impacts.[2]
20	426	1	Any new residential and/or commercial development must be fitted with low NOx (30 ppm) burners firing only natural gas for heating and hot water systems, ensure that the heating and hot water systems stack(s) is located at least 15 feet away from the lot line facing Nevins Street, and ensure that the heating and hot water system stack(s) is located at least 128 feet above grade, to avoid any potential significant air quality impacts.[3]
21	427	1, 7, 10	Any new residential and/or commercial development must exclusively use natural gas as the type of fuel for heating and hot water systems, to avoid any potential significant air quality impacts.
22	431	7, 12, 17, 43	Any new residential and/or commercial development must be fitted with low NOx (30 ppm) burners firing only natural gas for heating and hot water systems, and ensure that heating and hot water system stack(s) is located at least 198 feet above grade, to avoid any potential significant air quality impacts.[4]
24	433	28, 46	Any new residential and/or commercial development must be fitted with low NOx (30 ppm) burners firing only natural gas for heating and hot water systems, and ensure that the heating and hot water systems stack(s) is located at least 42 feet away from the lot line facing Sackett Street, to avoid any potential significant air quality impacts.

[1] Fuel type and low NOx burner restriction required as a result of the cluster analysis.

[2] Low NO_x burners and stack location restriction required as a result of the cluster analysis.

[3] Stack location restriction required as a result of the cluster analysis.

[4] Fuel type and low NOx burner restriction required as a result of the cluster analysis.

Table H-3-1 (cont'd)
(E) Designations for Projected Development Sites
(Heating and Hot Water System Restrictions)

Development Site	Block	Lots	Proposed (E) Designation
25	434	1, 12	Any new residential and/or commercial development must be fitted with low NOx (30 ppm) burners firing only natural gas for heating and hot water systems, and ensure that the heating and hot water system stack(s) is located at least 91 feet above grade, to avoid any potential significant air quality impacts.[5]
26	434	24	Any new commercial development must exclusively use natural gas as the type of fuel for heating and hot water systems, to avoid any potential significant air quality impacts.[6]
27	434	35	Any new residential and/or commercial development must exclusively use natural gas as the type of fuel for heating and hot water systems, to avoid any potential significant air quality impacts.
28 North	438	1, 2, 3, 8, 11, 20, 50	Any new residential and/or commercial development must be fitted with low NOx (30 ppm) burners firing only natural gas for heating and hot water systems and ensure that heating and hot water system stack(s) is located at least 218 feet above grade, to avoid any potential significant air quality impacts.[7]
28 South	438	1, 2, 3, 8, 11, 20, 50	Any new residential and/or commercial development must be fitted with low NOx (30 ppm) burners firing only natural gas for heating and hot water systems, ensure that the heating and hot water systems stack(s) is located at least 40 feet away from the lot line facing President Street, and ensure that heating and hot water system stack(s) is located at least 213 feet above grade, to avoid any potential significant air quality impacts.
29 North	439	1	Any new residential and/or commercial development must be fitted with low NOx (30 ppm) burners firing only natural gas for heating and hot water systems and ensure that heating and hot water systems stack(s) is located at least 203 feet above grade, to avoid any potential significant air quality impacts.[8]

[5] Stack height restriction required as a result of the cluster analysis.

[6] (E) Designation is required as a result of the cluster analysis.

[7] (E) Designation is required as a result of the cumulative analysis on Site 28.

[8] (E) Designation is required as a result of the cumulative analysis for Site 29.

Table H-3-1 (cont'd)
(E) Designations for Projected Development Sites
(Heating and Hot Water System Restrictions)

Development Site	Block	Lots	Proposed (E) Designation
29 South	439	1	Any new residential and/or commercial development must be fitted with low NOx (30 ppm) burners firing only natural gas for heating and hot water systems and ensure that heating and hot water systems stack(s) is located at least 203 feet above grade, to avoid any potential significant air quality impacts.[8]
30	440	1, 12	Any new residential and/or commercial development must be fitted with low NOx (30 ppm) burners firing only natural gas for heating and hot water systems, and ensure that the heating and hot water stack(s) is located no more than 209 feet away from the lot line facing Nevins Street, and ensure that heating and hot water system stack(s) is at least 90 feet above grade, to avoid any potential significant air quality impacts.
31	441	24, 33, 35	Any new residential and/or commercial development must exclusively use natural gas as the type of fuel for heating and hot water systems, and ensure that heating and hot water stack(s) is located at least 113 feet above grade, to avoid any potential significant air quality impacts.
33	447	32	Any new residential and/or commercial development must be fitted with low NOx (30 ppm) burners firing only natural gas for heating and hot water systems, and ensure that the heating and hot water systems stack(s) is located at least 10 feet away from the lot line facing President Street, to avoid any potential significant air quality impacts.
37 B	453	21	Any new residential and/or commercial development must be fitted with low NOx (30 ppm) burners firing only natural gas for heating and hot water systems, to avoid any potential significant air quality impacts.
38	456	1, 6, 34	Any new residential and/or commercial development must exclusively use natural gas as the type of fuel for heating and hot water systems and ensure that heating and hot water system stack(s) is located at least 158 feet above grade, to avoid any potential significant air quality impacts.
40	462	12, 14	Any new residential and/or commercial development must be fitted with low NOx (30 ppm) burners firing only natural gas for heating and hot water systems, ensure that the heating and hot water systems stack(s) is located at least 53 feet away from the lot line facing 3rd Street, and ensure that heating and hot water system stack(s) is located at least 193 feet above grade, to avoid any potential significant air quality impacts.
41	972	1, 43, 58	Any new residential and/or commercial development must ensure that heating and hot water stack(s) is located at least 223 feet above grade, to avoid any potential significant air quality impacts.

Table H-3-1 (cont'd)
(E) Designations for Projected Development Sites
(Heating and Hot Water System Restrictions)

Development Site	Block	Lots	Proposed (E) Designation
42	465	27, 28, 29, 33, 46, 47, 48, 49, 50	Any new residential development must be fitted with low NOx (30 ppm) burners firing only natural gas for heating and hot water systems, and ensure that the heating and hot water systems stack(s) is located at least 55 feet away from the lot line facing Bond Street, at least 40 feet away from the lot line facing Hoyt Street, and at least 10 feet away from the lot line facing 3rd Street, to avoid any potential significant air quality impacts.
46	468	25	Any new commercial development must exclusively use natural gas as the type of fuel for heating and hot water systems, to avoid any potential significant air quality impacts.
47 Northwest[9]	471	1, 100	Any new residential and/or commercial development must exclusively use natural gas as the type of fuel for heating and hot water systems, and ensure that the heating and hot water systems stack(s) is located at least 268 feet above grade, to avoid any potential significant air quality impacts.
47 Southwest[10]	471	1, 100	Any new residential and/or commercial development must be fitted with low NOx (30 ppm) burners firing only natural gas for heating and hot water systems, ensure that the heating and hot water systems stack(s) is located at least 143 feet away from the tallest tiers of 47 Northwest, and that heating and hot water system stack(s) is located at least 275 feet above grade, to avoid any potential significant air quality impacts.

[9] For the City-owned parcel located within Projected Development Site 47 Northwest (Block 471, Lots 1, 100), the implementation of the restrictions would be required through the Land Disposition Agreement between HPD and future developer with oversight provided through HPD. This agreement would require that any new residential and/or commercial development must exclusively use natural gas as the type of fuel for heating and hot water systems and ensure that heating and hot water system stack(s) is located at least 268 feet above grade, to avoid any potential significant air quality impacts.

[10] For the City-owned parcel located within Projected Development Site 47 Southwest (Block 471, Lots 1, 100), the implementation of the restrictions would be required through the Land Disposition Agreement between HPD and future developer with oversight provided through HPD. This agreement would require that any new residential and/or commercial development must be fitted with low NO_x (30 ppm) burners firing only natural gas for heating and hot water systems, ensure that the heating and hot water systems stack(s) is located at least 143 feet away from the tallest tiers of 47 Northwest, and that heating and hot water system stack(s) is located at least 275 feet above grade, to avoid any potential significant air quality impacts.

Table H-3-1 (cont'd)
(E) Designations for Projected Development Sites
(Heating and Hot Water System Restrictions)

Development Site	Block	Lots	Proposed (E) Designation
47 Northeast[11]	471	1, 100	Any new residential and/or commercial development must be fitted with low NOx (30 ppm) burners firing only natural gas for heating and hot water systems, ensure that heating and hot water systems stack(s) is located at least 106 feet from the tallest tiers of 47 Northwest, and ensure that heating and hot water system stack(s) is located at least 233 feet above grade, to avoid any potential significant air quality impacts.
47 Southwest[12]	471	1, 100	Any new residential and/or commercial development must be fitted with low NOx (30 ppm) burners firing only natural gas for heating and hot water systems, ensure that the heating and hot water systems stack(s) is located at least 102 feet away from the tallest tiers of 48 North, and that heating and hot water system stack(s) is located at least 255 feet above grade, to avoid any potential significant air quality impacts.
48 North	471	200	Any new residential and/or commercial development must be fitted with low NOx (30 ppm) burners firing only natural gas for heating and hot water systems, and ensure that heating and hot water systems stack(s) is located at least 248 feet above grade, to avoid any potential significant air quality impacts.[13]

[11] For the City-owned parcel located within Projected Development Site 47 Northeast (Block 471, Lots 1, 100), the implementation of the restrictions would be required through the Land Disposition Agreement between HPD and future developer with oversight provided through HPD. This agreement would require that any new residential and/or commercial development must be fitted with low NOx (30 ppm) burners firing only natural gas for heating and hot water systems and ensure that heating and hot water systems stack(s) is located at least 106 feet from the tallest tiers of 47 Northwest, to avoid any potential significant air quality impacts.

[12] For the City-owned parcel located within Projected Development Site 47 Southwest (Block 471, Lots 1, 100), the implementation of the restrictions would be required through the Land Disposition Agreement between HPD and future developer with oversight provided through HPD. This agreement would require that any new residential and/or commercial development must be fitted with low NO_x (30 ppm) burners firing only natural gas for heating and hot water systems, ensure that the heating and hot water systems stack(s) is located at least 102 feet away from the tallest tiers of 48 Northwest, and that heating and hot water system stack(s) is located at least 255 feet above grade, to avoid any potential significant air quality impacts.

[13] (E) Designation is required as a result of the cumulative analysis on Site 48.

Table H-3-1 (cont'd)
(E) Designations for Projected Development Sites
(Heating and Hot Water System Restrictions)

Development Site	Block	Lots	Proposed (E) Designation
48 Middle	427	200	Any new residential and/or commercial development must be fitted with low NOx (30 ppm) burners firing only natural gas for heating and hot water systems, ensure that the heating and hot water systems stack(s) is located at least 88 feet away from the tallest tiers of 48 South and must be no more than 200 feet from the lot line facing Huntington Street, and ensure that heating and hot water systems stack(s) is located at least 230 feet above grade, to avoid any potential significant air quality impacts.
48 South	471	200	Any new residential and/or commercial development must ensure that heating and hot water system stack(s) is located at least 303 feet above grade, to avoid any potential significant air quality impacts.
49	980	77	Any new residential and/or commercial development must exclusively use natural gas as the type of fuel for heating and hot water systems, to avoid any potential significant air quality impacts.
54	427	47	Any new residential and/or commercial development must be fitted with low NOx (30 ppm) burners firing only natural gas for heating and hot water systems, and ensure that the heating and hot water systems stack(s) is located at least 6 feet away from the lot line facing Degraw Street, to avoid any potential significant air quality impacts.
56	445	1	Any new residential and/or commercial development must be fitted with low NOx (30 ppm) burners firing only natural gas for heating and hot water systems, and ensure that the heating and hot water systems stack(s) is located no more than 52 feet away from the lot line facing Bond Street, to avoid any potential significant air quality impacts.
58	399	6	Any new residential and/or commercial development must exclusively use natural gas as the type of fuel for heating and hot water systems, to avoid any potential significant air quality impacts.
59	471	125	Any new commercial development must be fitted with low NOx (30 ppm) burners firing only natural gas for heating and hot water systems, and ensure that the heating and hot water systems stack(s) is located at least than 7 feet away from the lot line facing Hoyt Street, to avoid any potential significant air quality impacts.
62	464	41, 45	Any new residential and/or commercial development must exclusively use natural gas as the type of fuel for heating and hot water systems, to avoid any potential significant air quality impacts.

Table H-3-2
(E) Designations for Potential Development Sites
(Heating and Hot Water System Restrictions)

Development Site	Block	Lots	Proposed (E) Designation
D	399	47, 49	Any new residential and/or commercial development must be fitted with low NOx (30 ppm) burners firing only natural gas for heating and hot water systems, and ensure that the heating and hot water system stack(s) is located at least 85 feet above grade, to avoid any potential significant air quality impacts.
E	399	51, 53	Any new residential and/or commercial development must exclusively use natural gas as the type of fuel for heating and hot water systems, and ensure that heating and hot water stack(s) is located at least 83 feet above grade, to avoid any potential significant air quality impacts.
F	399	55	Any new residential and/or commercial development must exclusively use natural gas as the type of fuel for heating and hot water systems, and ensure that heating and hot water stack(s) is located at least 83 feet above grade, to avoid any potential significant air quality impacts.
G	399	62	Any new residential and/or commercial development must be fitted with low NOx (30 ppm) burners firing only natural gas for heating and hot water systems, to avoid any potential significant air quality impacts.
H	405	24	Any new residential and/or commercial development must exclusively use natural gas as the type of fuel for heating and hot water systems, and ensure that heating and hot water stack(s) is located at least 83 feet above grade, to avoid any potential significant air quality impacts.
J	406	25, 27, 50, 52, 69, 71	Any new residential and/or commercial development must be fitted with low NOx (30 ppm) burners firing only natural gas for heating and hot water systems, ensure that the heating and hot water systems stack(s) is located at least 70 feet away from the lot line facing Butler Street, and at least 98 feet away from the lot line facing Nevins Street, to avoid any potential significant air quality impacts.
L	407	41	Any new commercial development must be fitted with low NOx (30 ppm) burners firing only natural gas for heating and hot water systems, ensure that the heating and hot water systems stack(s) is located at least 20 feet away from the lot line facing 4th Avenue, and ensure that heating and hot water systems stack(s) is located at least 98 feet above grade, to avoid any potential significant air quality impacts.

Table H-3-2 (cont'd)
(E) Designations for Potential Development Sites
(Heating and Hot Water System Restrictions)

Development Site	Block	Lots	Proposed (E) Designation
M	407	1	Any new residential and/or commercial development must be fitted with low NOx (30 ppm) burners firing only natural gas for heating and hot water systems, ensure that the heating and hot water systems stack(s) is located at least 146 feet away from the lot line facing Butler Street, and that heating and hot water system stack(s) is located at least 100 feet above grade, to avoid any potential significant air quality impacts.
O	411	1, 2, 3	Any new residential and/or commercial development must exclusively use natural gas for heating and hot water systems, and ensure that the heating and hot water systems stack(s) is located no more than 32 feet away from the lot line facing Bond Street, to avoid any potential significant air quality impacts.
Q	412	21	Any new residential and/or commercial development must be fitted with low NOx (30 ppm) burners firing only natural gas for heating and hot water systems, ensure that the heating and hot water systems stack(s) is located at least 70 feet away from the lot line facing 3rd Avenue and at least 48 feet away from the lot line facing Nevins Street, and that heating and hot water system stack(s) is located at least 85 feet above grade, to avoid any potential significant air quality impacts.
S	413	21	Any new commercial development must be fitted with low NOx (30 ppm) burners firing only natural gas for heating and hot water systems, and ensure that the heating and hot water system stack(s) is located at least 83 feet above grade, to avoid any potential significant air quality impacts.
T	413	58	Any new commercial development must be fitted with low NOx (30 ppm) burners firing only natural gas for heating and hot water systems, and ensure that the heating and hot water system stack(s) is located at least 85 feet above grade, to avoid any potential significant air quality impacts.
U	420	1	Any new residential and/or commercial development must exclusively use natural gas as the type of fuel for heating and hot water systems, and ensure that heating and hot water stack(s) is located at least 110 feet above grade, to avoid any potential significant air quality impacts.
W	425	1	Any new residential and/or commercial development must ensure that heating and hot water systems stack(s) be located at least 208 feet above grade, to avoid any potential significant air quality impacts.

Table H-3-2 (cont'd)
(E) Designations for Potential Development Sites
(Heating and Hot Water System Restrictions)

Development Site	Block	Lots	Proposed (E) Designation
X	426	36, 41	Any new residential and/or commercial development must **EITHER** be fitted with low NOx (30 ppm) burners firing only natural gas for heating and hot water systems, and ensure that the heating and hot water systems stack(s) is located no more than 36 feet away from the lot line facing Sackett Street **OR** must be fitted with low NOx (30 ppm) burners firing only natural gas for heating and hot water systems, and ensure that the heating and hot water system stack(s) is located at least 128 feet above grade, to avoid any potential significant air quality impacts.
Y	427	12, 15	Any new commercial development must be fitted with low NOx (30 ppm) burners firing only natural gas for heating and hot water systems, and ensure that the heating and hot water systems stack(s) is located at least 50 feet away from the lot line facing 3rd Avenue and at least 20 feet away from the lot line facing Degraw Street, to avoid any potential significant air quality impacts.
Z	427	37, 38, 40	Any new residential and/or commercial development must be fitted with low NOx (30 ppm) burners firing only natural gas for heating and hot water systems, ensure that the heating and hot water systems stack(s) is located at least 41 feet away from the lot line facing Sackett Street, and that heating and hot water system stack(s) is located at least 120 feet above grade, to avoid any potential significant air quality impacts.
AA	427	21	Any new commercial development must be fitted with low NOx (30 ppm) burners firing only natural gas for heating and hot water systems, and ensure that the heating and hot water system stack(s) is located at least 85 feet above grade, to avoid any potential significant air quality impacts.
AB	427	31	Any new commercial development must be fitted with low NOx (30 ppm) burners firing only natural gas for heating and hot water systems, and ensure that the heating and hot water systems stack(s) is located at least 65 feet away from the lot line facing 4th Avenue, to avoid any potential significant air quality impacts.[14]

[14] Additional stack location restriction required as a result of the cluster analysis.

Table H-3-2 (cont'd)
(E) Designations for Potential Development Sites
(Heating and Hot Water System Restrictions)

Development Site	Block	Lots	Proposed (E) Designation
AD	427	52	Any new commercial development must exclusively use natural gas as the type of fuel for heating and hot water systems, and ensure that the heating and hot water system stack(s) is located at least 88 feet above grade, to avoid any potential significant air quality impacts.
AF	432	25	Any new residential and/or commercial development must be fitted with low NOx (30 ppm) burners firing only natural gas for heating and hot water systems, and ensure that the heating and hot water systems stack(s) is located at least 40 feet away from the lot line facing Sackett Street, at least 30 feet away from the lot line facing the Gowanus Canal (or Bond Street), and at least 40 feet away from the lot line facing Union Street, to avoid any potential significant air quality impacts.
AG	432	7501	Any new residential and/or commercial development must be fitted with low NOx (30 ppm) burners firing only natural gas for heating and hot water systems, and ensure that the heating and hot water system stack(s) is located at least 54 feet above grade, to avoid any potential significant air quality impacts.
AH	433	8, 9, 10, 12, 13	Any new residential and/or commercial development must exclusively use natural gas as the type of fuel for heating and hot water systems, to avoid any potential significant air quality impacts.
AI	453	26	Any new residential and/or commercial development must be fitted with low NOx (30 ppm) burners firing only natural gas for heating and hot water systems, ensure that the heating and hot water systems stack(s) is located at least 54 feet away from the western lot line facing the Gowanus Canal and that heating and hot water system stack(s) is located at least 68 feet above grade, to avoid any potential significant air quality impacts.
AJ	433	14	Any new residential and/or commercial development must exclusively use natural gas as the type of fuel for heating and hot water systems, and ensure that heating and hot water stack(s) is located at least 83 feet above grade, to avoid any potential significant air quality impacts.
AK	433	21	Any new residential and/or commercial development must exclusively use natural gas as the type of fuel for heating and hot water systems, to avoid any potential significant air quality impacts.

Table H-3-2 (cont'd)
(E) Designations for Potential Development Sites
(Heating and Hot Water System Restrictions)

Development Site	Block	Lots	Proposed (E) Designation
AL	434	16	Any new commercial development must be fitted with low NO_x (30 ppm) burners firing only natural gas for heating and hot water systems and ensure that heating and hot water systems stack(s) is located at least 88 feet above grade, to avoid any potential significant air quality impacts[15].
AM	434	52	Any new residential and/or commercial development must be fitted with low NOx (30 ppm) burners firing only natural gas for heating and hot water systems, to avoid any potential significant air quality impacts.
AN	434	55	Any new residential and/or commercial development must be fitted with low NOx (30 ppm) burners firing only natural gas for heating and hot water systems, to avoid any potential significant air quality impacts.
AO	438	7	Any new residential and/or commercial development must be fitted with low NOx (30 ppm) burners firing only natural gas for heating and hot water systems, ensure that the heating and hot water systems stack(s) is located at least 30 feet away from the lot line facing President Street, and that heating and hot water system stack(s) is located at least 208 feet above grade, to avoid any potential significant air quality impacts.
AQ	440	21, 23, 24, 25, 26, 47, 48	Any new residential and/or commercial development must exclusively use natural gas as the type of fuel for heating and hot water systems, and ensure that heating and hot water stack(s) is located at least 93 feet above grade, to avoid any potential significant air quality impacts.
AR	441	21	Any new residential and/or commercial development must exclusively use natural gas as the type of fuel for heating and hot water systems, ensure that the heating and hot water systems stack(s) is located at least 25 feet away from the lot line facing 4th Avenue, and that heating and hot water system stack(s) is located at least 103 feet above grade, to avoid any potential significant air quality impacts.

[15] Fuel restriction and low NO_x burners required as a result of the cluster analysis.

Table H-3-2 (cont'd)
(E) Designations for Potential Development Sites
(Heating and Hot Water System Restrictions)

Development Site	Block	Lots	Proposed (E) Designation
AS	441	50, 53	Any new commercial development must **EITHER** exclusively use natural gas for heating and hot water systems, and ensure that the heating and hot water systems stack(s) is located at least than 40 feet away from the lot line facing Union Street and at least 45 feet from the lot line facing 3rd Avenue **OR** ensure that heating and hot water systems be fitted with low NOx (30 ppm) burners firing only natural gas, and that the heating and hot water system stack(s) is located at least 83 feet above grade, to avoid any potential significant air quality impacts.
AV	441	14	Any new residential and/or commercial development must be fitted with low NOx (30 ppm) burners firing only natural gas for heating and hot water systems, to avoid any potential significant air quality impacts.
AY	447	3, 4, 7	Any new residential and/or commercial development must **EITHER** be fitted with low NOx (30 ppm) burners firing only natural gas for heating and hot water systems, and ensure that the heating and hot water systems stack(s) is located at least 70 feet away from the lot line facing Carroll Street **OR** ensure that heating and hot water systems be fitted with low NO_x (30 ppm) burners firing only natural gas, and ensure that the heating and hot water system stack(s) be located at least 83 feet above grade, to avoid any potential significant air quality impacts.
AZ	447	13	Any new residential and/or commercial development must be fitted with low NOx (30 ppm) burners firing only natural gas for heating and hot water systems, to avoid any potential significant air quality impacts.
BE	448	34	Any new residential and/or commercial development must **EITHER** ensure that heating and hot water system stack(s) is located at least 113 feet above grade **OR** exclusively use natural gas as the type of fuel for heating and hot water systems, to avoid any potential significant air quality impacts.
BF	448	31	Any new residential and/or commercial development must exclusively use natural gas as the type of fuel for heating and hot water systems, to avoid any potential significant air quality impacts.
BG	448	52, 53	Any new residential and/or commercial development must exclusively use natural gas as the type of fuel for heating and hot water systems, to avoid any potential significant air quality impacts.
BI	453	36	Any new commercial development must exclusively use natural gas as the type of fuel for heating and hot water systems, to avoid any potential significant air quality impacts.

Table H-3-2 (cont'd)
(E) Designations for Potential Development Sites
(Heating and Hot Water System Restrictions)

Development Site	Block	Lots	Proposed (E) Designation
BJ	453	54	Any new residential and/or commercial development must be fitted with low NOx (30 ppm) burners firing only natural gas for heating and hot water systems, ensure that the heating and hot water systems stack(s) is located at least 70 feet away from the lot line facing 1st Street, and that heating and hot water system stack(s) is located at least 98 feet above grade, to avoid any potential significant air quality impacts.
BN	967	24	Any new residential and/or commercial development must be fitted with low NOx (30 ppm) burners firing only natural gas for heating and hot water systems, and ensure that the heating and hot water system stack(s) is located at least 150 feet above grade, to avoid any potential significant air quality impacts.
BO	462	6, 8, 9, 42, 44, 50	Any new residential and/or commercial development must be fitted with low NOx (30 ppm) burners firing only natural gas for heating and hot water systems, and ensure that on the south tower, the heating and hot water systems stack(s) is at least 93 feet above grade and located no more than 115 feet away from the lot line facing the Bond Street and on the north tower, the heating and hot water systems stack(s) is at least 93 feet above grade and located no more than 44 feet away from the lot line facing Bond Street, to avoid any potential significant air quality impacts.
BT	980	23, 49	Any new residential and/or commercial development must exclusively use natural gas as the type of fuel for heating and hot water systems, and ensure that the heating and hot water system stack(s) is located at least 185 feet above grade, to avoid any potential significant air quality impacts.
BV	992	1	Any new residential and/or commercial development must be fitted with low NOx (30 ppm) burners firing only natural gas for heating and hot water systems, ensure that the heating and hot water systems stack(s) is located at least 70 feet away from the lot line facing 6th Street, and ensure that heating and hot water systems stack(s) is located at least 68 feet above grade, to avoid any potential significant air quality impacts.
BY	1040	46, 47	Any new residential and/or commercial development must exclusively use natural gas as the type of fuel for heating and hot water systems, and ensure that heating and hot water stack(s) is located at least 113 feet above grade, to avoid any potential significant air quality impacts.

CITY-OWNED PARCELS

For the City-owned parcels located within Projected Development Site 47 (Block 215, Lot 471) the implementation of the restrictions would be required through the Land Disposition Agreement between HPD and future developer with oversight provided through HPD.

INDUSTRIAL USE (E) DESIGNATIONS

Under the proposed zoning, (E) Designations are proposed to avoid impacts on privately owned parcels on projected or potential development sites with respect to industrial uses. A refined analysis was performed utilizing the AERMOD dispersion model (see Chapter 15," Air Quality"). The results indicated that all eleven sites that are anticipated to include industrial uses in the reasonable worst case scenario would require restrictions in order to provide an adequate level of protection. A description of the requirements of those (E) Designations are found in **Table H-3-3** and **H-3-4**.

Table H-3-3
Proposed Industrial Use (E) Designations

Development Site	Block	Lots	Proposed (E) Designation
Projected Development Sites			
22	431	7, 12, 17, 43	Exhaust stacks for industrial processes must be located to the tallest portion of the roof. Any new industrial development must ensure pollutant emissions are below the air pollutant emission limits listed in **Table H-3-4**.
29	439	1	Exhaust stacks for industrial processes must be located to the tallest portion of the roof.
41	972	1, 43, 58	Exhaust stacks for industrial processes must be located to the tallest portion of the roof. Any new industrial development must ensure pollutant emissions are below the air pollutant emission limits listed in **Table H-3-4**.
44	466	19	Exhaust stacks for industrial processes must be located to the tallest portion of the roof. Any new industrial development must ensure pollutant emissions are below the air pollutant emission limits listed in **Table H-3-4**.
47 (1)	471	1, 100	Exhaust stacks for industrial processes must be located to the tallest portion of the roof.
48	471	200	Exhaust stacks for industrial processes must be located to the tallest portion of the roof.
Potential Development Sites			
P	411	58, 56	Exhaust stacks for industrial processes must be located to the tallest portion of the roof. Any new industrial development must ensure pollutant emissions are below the air pollutant emission limits listed in **Table H-3-4**.
AK	433	21	Exhaust stacks for industrial processes must be located to the tallest portion of the roof. Any new industrial development must ensure pollutant emissions are below the air pollutant emission limits listed in **Table H-3-4**.

Table H-3-3
Proposed Industrial Use (E) Designations

Development Site	Block	Lots	Proposed (E) Designation
Potential Development Sites continued			
BI	453	36	Exhaust stacks for industrial processes must be located to the tallest portion of the roof. Any new industrial development must ensure pollutant emissions are below the air pollutant emission limits listed in **Table H-3-4**.
BL	454	31, 33	Exhaust stacks for industrial processes must be located to the tallest portion of the roof. Any new industrial development must ensure pollutant emissions are below the air pollutant emission limits listed in **Table H-3-4**.
BO	462	6, 8, 9, 42, 44, 50	Exhaust stacks for industrial processes must be located to the tallest portion of the roof. Any new industrial development must ensure pollutant emissions are below the air pollutant emission limits listed in **Table H-3-4**.

Notes:

(1) For the City-owned parcel located within Projected Development Site 47 (Block 471, Lots 1, 100), the implementation of the restrictions would be required through the Land Disposition Agreement between HPD and future developer with oversight provided through HPD.

Table H-3-4
Air Pollutant Emissions Limits

Air Pollutant	CAS Number	Short-Term Emission Limit (lb/hr)	Annual Emission Limit (lb/yr)
Formaldehyde	00050-00-0	N/A	2
Trichloroethylene	00079-01-6	0.01	7
Butyl carbitol	00112-34-5	0.14	N/A
Dioctyl phthalate	00117-81-7	N/A	16
Tetrachloroethylene	00127-18-4	0.11	152
Nickel oxide	01313-99-1	0.00008	0.2
Zinc oxide	01314-13-2	N/A	0.2
Cadmium	07440-43-9	N/A	0.01

Notes:

N/A No applicable emission limit is required in order to avoid potential impacts.

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