

SULFUR DIOXIDE - Continuous Pulsed Fluorescence

NYSDEC Region **1**

Annual Averages 2001 through 2011

Annual Arithmetic Mean (ppb) - Primary Standard

(12 month average not to exceed 30 PPB *)

Station	Site No.	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Eisenhower Park	2950-10	5.13	3.92	4.54	4.29	4.16	3.86	3.73	4.72	3.45	2.09	1.97
Holtsville	5151-10	6.08	5.62	5.84	7.04	7.26	3.74	4.54	4.82	3.81	3.95	2.22

Holtsville site (5151-10) was operated by Suffolk County Health Dept until 9/30/10, when NYSDEC commenced monitoring.

Comparison Between NYS Ambient Air Quality and Ambient Air Quality Standards for Calendar Year 2011

		One Hour Averages average of 99 th percentile for last 3 years not to exceed 75 PPB *						3-Hour Block Averages Maximum not to exceed 500 PPB more than once per calendar year *			24 Hour Average Maximum not to exceed 140 PPB more than once per calendar year *		
		Observations		99 th Percentile, PPB				Obs.	Highest Values, PPB		Obs.	Highest Values, PPB Midnight - Midnight	
Station	Site No.	Total Obs.	% Avail	2011	2010	2009	3-yr avg	Total	1 st	2 nd	Total	1 st	2 nd
Eisenhower Park	2950-10	8,696	99	27.6	18.0	41.0	29	2,878	39.3 [02/07, 08]	36.5 [02/16, 08]	364	13.7 [02/07]	13.2 [01/25]
Holtsville	5151-10	8,314	95	21.3	17.2	39.0	26	2,733	22.0 [02/11, 08]	21.3 [01/22, 17]	348	10.2 [02/04]	10.0 [02/11]

(Annual Means in parentheses are based on less than 75% available data)

*New York and Federal Ambient Air Quality Standard

[Date of Occurrence, Hour]

+ Denotes a contravention of NYS/Federal AAQS

INHALABLE PARTICULATES (<2.5 Microns) - Rupprecht & Patashnick Sampler

NYSDEC Region **1**

Comparison Between NYS Ambient Air Quality and Ambient Air Quality Standards for Calendar Year 2011

(Average of last 3 years' annual means not to exceed 15 $\mu\text{g}/\text{m}^3$ * ;

And average of 98th percentile for last 3 years not to exceed 35 $\mu\text{g}/\text{m}^3$ * , *changed* from 65 $\mu\text{g}/\text{m}^3$ on 12/17/06)

Station	Site No.	Total Obs.	Maximum Values, $\mu\text{g}/\text{m}^3$			98th Percentile, $\mu\text{g}/\text{m}^3$				Quarterly Averages, 2011				Annual Mean, $\mu\text{g}/\text{m}^3$			
			1 st	2 nd	3 rd	2011	2010	2009	3-yr avg	1 st	2 nd	3 rd	4 th	2011	2010	2009	3-yr avg
Eisenhower Park(T)	2950-10	332	38.4 [06/09]	36.7 [07/22]	33.4 [06/08]	29.5	26.4	26.7	28	12.1	9.6	10.9	10.9	10.9	9.5	9.7	10.0
Hempstead (F)	2950-18	113	28.7 [06/08]	23.4 [06/23]	23.1 [01/30]	23.1	20.2	25.8	23	9.0	8.7	10.4	7.6	8.9	8.7	9.0	8.9
Babylon (F)	5150-01	115	25.7 [06/08]	23.6 [08/07]	21.7 [07/23]	21.7	26.1	21.6	23	8.1	8.4	10.8	7.9	8.8	8.5	8.1	8.5
Holtsville (T)	5150-10	330	32.6 [07/22]	31.8 [07/04]	24.8 [01/01]	21.2	(25.6)	--	--	10.6	7.2	7.9	8.1	8.5	(9.2)	--	--

(Annual Means in parentheses are based on less than 75% available data)

F = Federal Reference Method

T = TEOM (Tapered Element Oscillating Microbalance) not for Standards determination

* Federal Ambient Air Quality Standard

+ Denotes a contravention of Federal AAQS

OZONE - Continuous UV Light Absorption

NYSDEC Region **1**

Annual Averages 2001 through 2011
Annual Arithmetic Mean (ppm)

Station	Site No.	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Babylon	5150-02	.023	.024	.025	.024	.024	.024	.026	.026	.027	.029	.029
Holtsville	5151-10	--	--	--	--	--	.030	.032	.031	.028	.032	.028
Riverhead	5155-01	.030	.033	.030	(.029)	.035	.039	.034	.034	.035	.035	.035

Comparison Between NYS Ambient Air Quality and Ambient Air Quality Standards for Calendar Year 2011

		One Hour Averages							4th Highest Daily Maximum 8-Hour Average- Not to exceed an avg of 0.075 ppm during the last 3 years, <i>changed</i> from 0.08 ppm on 5/27/08*			
		Observations			Highest Values, PPM							
Station	Site No.	Total Obs.	% Avail	>.12 PPM	1st	2nd	3rd	4th	2009	2010	2011	Avg
Babylon	5150-02	8,521	97	1	.137 + [07/22, 13]	.123 [06/09, 12]	.121 [07/07, 15]	.113 [07/16, 14]	.079 [08/10]	.085 [07/04]	.089 [06/08]	.084 +
Holtsville (Operated 03/11- 12/31)	5151-10	6,761	95	0	.118 [07/22, 13]	.103 [06/09, 14]	.102 [07/07, 14]	.102 [07/16, 15]	.074 [04/26]	.080 [06/04]	.082 [07/16]	.078 +
Riverhead (Operated 03/11- 11/06)	5155-01	5,516	95	0	.100 [06/08, 15]	.100 [07/11, 12]	.096 [07/22, 14]	.091 [06/07, 15]	.071 [09/05]	.075 [06/05]	.080 [07/07]	.075

Due to EPA Waiver for SLAMS (Non-NAMS), % Availability may be based on operational year of less than 12 months (Holtsville, Riverhead)

(Annual Means in parentheses are based on less than 75% available data)

*Federal Ambient Air Quality Standard

[Date of Occurrence, Hour]

+ Denotes a contravention of Federal AAQS

NITROGEN DIOXIDE - Continuous Chemiluminescence

NYSDEC Region **1**

Annual Averages 2001 through 2011

Annual Arithmetic Mean (PPB) - Primary Standard
(12 month average not to exceed 53 PPB *)

Station	Site No.	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Eisenhower Park	2950-10	24.34	22.44	20.99	(19.48)	19.56	18.34	18.28	17.30	15.56	14.57	xxx
Holtsville	5151-10	17.28	17.13	14.37	12.52	13.41	13.13	10.45	10.53	9.82	8.78	xxx

Sampling at 551-10 was conducted by Suffolk County Health Dept.
Sampling at 2950-10 and 5151-10 was terminated on 12/31/2010

Comparison Between NYS Ambient Air Quality and Ambient Air Quality Standards for Calendar Year 2011

		One-Hour Averages - average of 98 th percentile for last 3 years not to exceed 75 PPB *								
		Observations		98 th Percentile, PPB				Highest Values, PPB		
Station	Site No.	Total	% Avail	2009	2010	2011	3-yr avg	1st	2nd	3rd
Eisenhower Park	2950-10	xxx	xx	58.0	57.0	xxx	xx	xxx	xxx	xxx

(Annual Means in parentheses are based on less than 75% available data)
*New York and Federal Ambient Air Quality Standard

[Date of Occurrence, Hour]
+ Denotes a contravention of NYS/Federal AAQS

SULFUR DIOXIDE - Continuous Pulsed Fluorescence

NYSDEC Region **2**

Annual Averages 2001 through 2011

Annual Arithmetic Mean (ppb) - Primary Standard
(12 month average not to exceed 30 PPB *)

Station	Site No.	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
PS 59	7093-10	12.46	12.36	(13.89)	(10.19)	11.18	9.65	9.75	(10.81)	xxx	xxx	xxx
Botanical Garden (Harding Lab/Pfizer Lab)	7094-06 / 7094-10	10.30	8.53	8.64	8.70	9.33	6.65	6.67	5.96	5.32	4.83	4.65
IS 52	7094-07	(13.18)	10.01	10.62	10.27	10.91	8.83	7.86	6.58	6.33	(6.22)	xxx
Queensboro Comm. College	7096-08	6.99	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx
Queens College 2	7096-15	(7.24)	6.40	6.94	5.48	6.48	5.24	4.89	4.02	3.41	2.83	2.65

Sampling was suspended at 7094-07 on 06/24/10 due to building construction

Comparison Between NYS Ambient Air Quality and Ambient Air Quality Standards for Calendar Year 2011

Station	Site No.	One Hour Averages average of 99 th percentile for last 3 years not to exceed 75 PPB *						3-Hour Block Averages Maximum not to exceed 500 PPB more than once per calendar year *			24 Hour Average Maximum not to exceed 140 PPB more than once per calendar year *		
		Observations		99 th Percentile, PPB				Obs.	Highest Values, PPB		Obs.	Highest Values, PPB Midnight - Midnight	
		Total Obs.	% Avail	2011	2010	2009	3-yr avg	Total	1 st	2 nd	Total	1 st	2 nd
Botanical Garden (Harding Lab/Pfizer Lab)	7094-06 / 7094-10	8,719	99	41.3	50.2	61.0	51	2,893	43.7 [01/25, 20]	39.2 [02/24, 08]	365	26.1 [01/25]	20.4 [01/28]
Queens College 2	7096-15	8,465	97	29.6	25.4	36.5	30	2,761	31.1 [02/07, 08]	29.7 [01/28, 11]	358	15.7 [01/25]	15.1 [01/28]

(Annual Means in parentheses are based on less than 75% available data)

*New York and Federal Ambient Air Quality Standard

[Date of Occurrence, Hour]

+ Denotes a contravention of NYS/Federal AAQS

INHALABLE PARTICULATES (PM10) - Wedding Sampler or R&P Model 2025 Sampler

NYSDEC Region **2**

Annual Averages 2001 through 2011
Annual Arithmetic Mean (ug/m3)

Station	Site No.	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	3 Yr Exp Val
PS 59 (R&P)	7093-10	--	--	--	--	--	23	25	(26)	xx	xx	xx	xx
Madison Ave (R&P)	7093-12	--	--	--	--	--	--	--	35	33	30	xx	xx
PS 19 (R&P)	7093-21	--	--	--	--	--	--	--	--	20	20	20	20
Division Street (R&P)	7093-24	--	--	--	--	--	--	25	24	21	21	22	21
Canal Street (R&P)	8100-02	--	26	26	24	26	23	(27)	xx	xx	xx	xx	xx
IS 52 (W, R&P)	7094-07	(21) ^W	21 ^W	22 ^W	18 ^W	xx	xx	22 ^{R&P}	21 ^{R&P}	19 ^{R&P}	(19) ^{R&P}	xx	xx
Morrisania (R&P)	7094-05	--	--	--	--	--	--	--	--	--	(18)	19	xx
JHS 126 (W)	7095-43	20	21	20	17	xx	xx	xx	xx	xx	xx	xx	xx
Queens College 2(R&P)	7096-15	--	--	--	--	--	(20)	20	20	17	17	16	17
Susan Wagner (W)	7097-01	16	17	16	13	xx	xx	xx	xx	xx	xx	xx	xx

Lab results not received for Wedding samplers for 2005. Sampling terminated at Wedding Samplers on 12/31/2005. Sampling at 7093-10 commenced on 01/01/06 and at 7096-15 on 07/01/06. Sampling at 8100-02 terminated on 03/31/07 and at 7093-10 on 6/30/08. Sampling was suspended at 7094-07 on 06/24/10 due to building construction and moved to 7094-05. Sampling terminated at 7093-12 on 12/31/10.

Comparison Between NYS Ambient Air Quality and Ambient Air Quality Standards for Calendar Year 2011

		24-Hour Concentrations - ug/m3							# of Days > 150 ug/m3 - Not to exceed an expected avg of one per year during the last 3 years *						
		Maximum		2nd Max.		3rd Max.		2009		2010		2011			
Station	Site No.	Total Obs.	Value	Date	Value	Date	Value	Date	Mea	Est	Mea	Est	Mea	Est	Exp Avg
Madison Ave	7093-12	xxx	xx	xxx	xx	xxx	xx	xxx	0	0.0	0	0.0	xx	xx	xxx
PS 19	7093-21	118	57	02/17	40	06/08	39	11/08	0	0.0	0	0.0	0	0.0	0.0
Division Street (R&P)	7093-24	112	57	02/17	48	06/08	46	05/27	0	0.0	0	0.0	0	0.0	0.0
Morrisania (R&P)	7094-05	56	42	12/05	37	06/08	35	05/27	--	---	0	0.0	0	0.0	0.0
Queens College 2(R&P)	7096-15	57	47	06/08	40	07/20	35	05/27	0	0.0	0	0.0	0	0.0	0.0

(Annual Means in parentheses are based on less than 75% available data)

* Federal Ambient Air Quality Standard

W=Wedding Sampler

R&P=R&P Model 2025 Sampler

Mea=Measured

Est=Estimated

+ Denotes a contravention of Federal AAQS

INHALABLE PARTICULATES (<2.5 Microns) - Rupprecht & Patashnick Sampler

NYSDEC Region **2**
(Manhattan Sites)

Comparison Between NYS Ambient Air Quality and Ambient Air Quality Standards for Calendar Year 2011

(Average of last 3 years' annual means not to exceed 15 $\mu\text{g}/\text{m}^3$ *;
and average of 98th percentile for last 3 years not to exceed 35 $\mu\text{g}/\text{m}^3$ *, *changed* from 65 $\mu\text{g}/\text{m}^3$ on 12/17/06)

Station	Site No.	Total Obs.	Maximum Values, $\mu\text{g}/\text{m}^3$			98th Percentile, $\mu\text{g}/\text{m}^3$				Quarterly Averages, 2011				Annual Mean, $\mu\text{g}/\text{m}^3$			
			1 st	2 nd	3 rd	2011	2010	2009	3-yr avg	1 st	2 nd	3 rd	4 th	2011	2010	2009	3-yr avg
JHS 45 (F)	7093-08	106	32.6 [02/17]	26.8 [07/20]	25.2 [02/23]	25.2	25.2	28.8	26	11.2	(11.0)	11.6	8.8	10.7	9.7	10.5	10.3
IS 143 (T)	7093-15	123	42.8 [01/01]	36.8 [01/17]	34.5 [02/17]	(34.5)	28.6	29.8	31	18.8	11.9	xx	xx	(15.4)	12.5	12.5	13.5
Manhattanville PO (T)	7093-17	143	36.9 [01/01]	27.4 [02/17]	24.3 [01/26]	(24.3)	25.3	25.0	25	11.8	8.2	xx	xx	(10.0)	9.8	10.4	10.1
Park Row (T) (WTC)	7093-18	13	xx	xx	xx	xx	25.7	24.0	xx	(14.9)	xx	xx	xx	xx	10.0	10.0	xx
PS 19 (F)	7093-21	112	26.8 [02/17]	26.5 [06/08]	26.4 [07/20]	26.4	25.4	29.0	27	13.0	11.2	13.1	11.2	12.1	11.5	12.0	11.9
PS 19 (T)	7093-21	337	39.4 [06/09]	39.3 [07/21]	35.7 [01/01]	29.6	25.3	25.9	27	14.4	12.5	11.8	8.9	11.9	10.9	11.2	11.3
Division St (F)	7093-24	109	29.5 [06/08]	27.0 [02/17]	26.8 [08/10]	26.8	27.0	29.0	28	11.7	11.9	13.2	11.1	12.0	11.5	11.6	11.7
Division St (T)	7093-24	351	36.3 [06/09]	32.0 [01/01]	30.8 [06/08]	23.8	26.9	25.2	25	12.0	10.2	10.5	10.5	10.8	10.3	10.8	10.6
CCNY (T)	7093-25	317	36.6 [01/01]	31.5 [06/09]	26.9 [02/17]	24.1	26.4	25.9	25	12.4	9.6	9.4	10.3	10.4	10.2	10.8	10.5

TEOM sampling at 7093-15 was terminated on 05/04/11, at 7093-17 on 05/24/12, and at 7093-18 on 01/13/11.

(Annual Means in parentheses are based on less than 75% available data)

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* Federal Ambient Air Quality Standard

+ Denotes a contravention of Federal AAQS

INHALABLE PARTICULATES (<2.5 Microns) - Rupprecht & Patashnick Sampler

NYSDEC Region **2**
(Bronx & Brooklyn Sites)

Comparison Between NYS Ambient Air Quality and Ambient Air Quality Standards for Calendar Year 2011

(Average of last 3 years' annual means not to exceed 15 $\mu\text{g}/\text{m}^3$ *;
and average of 98th percentile for last 3 years not to exceed 35 $\mu\text{g}/\text{m}^3$ *, *changed from 65 $\mu\text{g}/\text{m}^3$ on 12/17/06*)

Station	Site No.	Total Obs.	Maximum Values, $\mu\text{g}/\text{m}^3$			98th Percentile, $\mu\text{g}/\text{m}^3$				Quarterly Averages, 2011				Annual Mean, $\mu\text{g}/\text{m}^3$			
			1 st	2 nd	3 rd	2011	2010	2009	3-yr avg	1 st	2 nd	3 rd	4 th	2011	2010	2009	3-yr avg
Morrisania (F)	7094-05	109	27.9 [01/15]	27.4 [02/05]	27.0 [12/05]	27.0	27.0	30.0	28	12.6	10.5	12.5	10.9	11.6	11.4	12.7	11.9
IS 52 (F)	7094-07	xxx	xxx	xxx	xxx	xxx	(25.4)	30.6	xx	xxx	xxx	xxx	xxx	xxx	(10.2)	10.8	xxx
IS 52 (T)	7094-07	xxx	xxx	xxx	xxx	xxx	(24.4)	28.3	xx	xxx	xxx	xxx	xxx	xxx	(10.4)	10.5	xxx
IS 74 (T)	7094-08	341	34.4 [06/09]	33.1 [01/01]	31.4 [07/21]	28.3	26.3	28.6	28	13.3	10.4	10.7	13.4	12.0	10.6	10.8	11.1
PS 154 (T)	7094-09	363	37.8 [06/09]	36.7 [01/01]	34.2 [07/21]	26.5	27.0	26.9	27	13.1	10.7	10.5	10.6	11.2	10.7	10.9	10.9
Botanical Gdn - Pfizer (F)	7094-10	120	27.3 [02/17]	23.5 [07/20]	23.0 [02/05]	23.0	24.8	27.4	25	11.3	8.9	11.0	8.7	10.0	10.0	10.0	10.0
PS 314 (T)	7095-07	365	34.2 [06/09]	29.4 [01/01]	28.6 [07/21]	22.7	24.9	25.1	24	11.0	9.3	9.3	9.0	9.7	9.5	10.3	9.8
JHS 126 (F)	7095-43	111	25.7 [07/20]	24.4 [02/17]	24.3 [06/08]	24.3	24.8	26.9	25	9.8	9.8	11.4	10.0	10.3	9.9	10.7	10.3
IS 293 (T)	7095-44	271	39.6 [06/09]	33.1 [01/01]	27.9 [06/08]	23.8	25.8	25.3	25	11.6	9.4	9.1	10.7	10.2	9.8	10.0	10.0
PS 274 (T)	7095-98	337	34.8 [06/09]	31.1 [01/01]	28.5 [06/08]	21.9	25.2	23.9	24	11.2	9.7	8.9	10.0	10.0	9.6	9.7	9.8

Sampling was suspended at 7094-07 from 06/20/01 to 10/04/01 and again on 06/24/10 due to building construction

(Annual Means in parentheses are based on less than 75% available data)

F = Federal Reference Method

T = TEOM (Tapered Element Oscillating Microbalance) not for Standards determination

* Federal Ambient Air Quality Standard

+ Denotes a contravention of Federal AAQS

INHALABLE PARTICULATES (<2.5 Microns) - Rupprecht & Patashnick Sampler

NYSDEC Region **2**

(Queens, and Staten Island Sites)

Comparison Between NYS Ambient Air Quality and Ambient Air Quality Standards for Calendar Year 2011

(Average of last 3 years' annual means not to exceed 15 $\mu\text{g}/\text{m}^3$ *;

and average of 98th percentile for last 3 years not to exceed 35 $\mu\text{g}/\text{m}^3$ *, *changed from 65 $\mu\text{g}/\text{m}^3$ on 12/17/06)*

Station	Site No.	Total Obs.	Maximum Values, $\mu\text{g}/\text{m}^3$			98th Percentile, $\mu\text{g}/\text{m}^3$				Quarterly Averages, 2011				Annual Mean, $\mu\text{g}/\text{m}^3$			
			1 st	2 nd	3 rd	2011	2010	2009	3-yr avg	1 st	2 nd	3 rd	4 th	2011	2010	2009	3-yr avg
Maspeth Library (T)	7096-13	353	33.5 [06/09]	29.8 [01/01]	29.6 [07/22]	23.6	26.3	25.3	25	12.3	9.2	9.8	9.8	10.3	10.5	10.2	10.3
PS 219 / Queens College 2 (F)	7096-14 / 7096-15	300	34.9 [01/01]	32.3 [01/25]	26.4 [01/28]	24.7	25.5	26.7	26	11.2	(8.0)	9.7	8.5	9.4	9.4	9.6	9.5
PS 219 / Queens College 2 (T)	7096-14 / 7096-15	142	34.5 [01/01]	30.7 [01/25]	26.0 [01/28]	26.0	29.8	23.2	26	11.1	9.1	8.2	xx	(9.5)	11.2	8.9	9.9
Susan Wagner (F)	7097-01	116	27.2 [07/20]	23.8 [06/08]	23.6 [06/23]	23.6	21.5	23.0	23	8.1	9.4	10.5	7.4	8.8	8.3	8.5	8.5
Port Richmond (F)	7097-03	106	26.0 [06/23]	24.2 [07/20]	23.2 [06/08]	23.2	25.5	24.6	24	(10.1)	9.6	10.8	9.0	9.9	9.7	9.8	9.8
Port Richmond (T)	7097-03	216	32.8 [06/09]	29.2 [07/21]	27.9 [07/22]	24.9	xx	xx	xx	--	(9.8)	10.6	11.7	(10.7)	--	--	--
Freshkills West (T)	7097-17	218	28.5 [07/21]	28.3 [01/01]	24.8 [04/04]	21.0	25.3	22.6	23	10.9	8.2	10.0	8.1	9.3	9.2	9.2	9.2
PS 44 (T)	7097-18	87	29.4 [01/01]	21.6 [01/26]	21.0 [01/28]	(21.6)	25.0	22.8	23	(10.5)	xx	xx	xx	(10.5)	9.1	8.9	9.5

PS219 FRM Sampler moved to Queens College 2 on 07/01/06; TEOM sampler moved on 08/21/09 and sampling terminated on 08/13/11. TEOM sampling commenced at 7097-03 on 04/23/11. TEOM sampling at 7097-18 was terminated on 03/28/11.

(Annual Means in parentheses are based on less than 75% available data)

F = Federal Reference Method

T = TEOM (Tapered Element Oscillating Microbalance) not for Standards determination

* Federal Ambient Air Quality Standard

+ Denotes a contravention of Federal AAQS

CARBON MONOXIDE - Continuous Non-Dispersive Infrared

NYSDEC Region 2

Annual Averages 2001 through 2011
Annual Arithmetic Mean (ppm)

Station	Site No.	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
PS 59	7093-10	0.8	0.7	(0.8)	0.7	0.6	0.6	0.6	(0.5)	xx	xx	xx
CCNY	7093-25	---	---	---	---	---	---	---	0.4	0.6	0.5	0.4
Botanical Garden (Harding Lab/Pfizer Lab)	7094-06/7094-10	0.7	0.7	0.8	0.6	0.6	0.5	0.6	0.5	0.5	0.6	0.4
Queensboro Comm Coll	7096-08	0.5	xx	xx	xx	xx	xx	xx	xx	xx	xx	xx
Queens College 2	7096-15	---	0.6	0.6	0.5	0.5	0.4	0.4	0.4	0.5	0.4	0.3

Sampling was terminated at 7096-08 on 12/30/2001 at 7093-10 on 07/01/08; sampling commenced at 7093-25 on 07/09/08.

Comparison Between NYS Ambient Air Quality and Ambient Air Quality Standards for Calendar Year 2011

		One-Hour Average Maximum not to exceed 35 PPM more than once per calendar year *						Running 8-Hour Average (Non-Overlapping) Maximum not to exceed 9 PPM more than once per calendar year *					
		Observations			Highest Values, PPM			Observations		Highest Values, PPM			
Station	Site No.	Total Obs.	% Avail	>35 PPM	1st	2nd	3rd	Total	>9 PPM	1st	2nd	3rd	Days> 9PPM
CCNY	7093-25	8,751	100	0	3.1 [11/09, 10]	2.7 [11/04, 11]	2.7 [11/09, 11]	8,749	0	2.0 [11/09, 11]	1.7 [11/27, 07]	1.6 [02/18, 00]	0
Botanical Gardens (Pfizer Lab)	7094-10	8,750	100	0	3.2 [11/27, 00]	3.0 [11/27, 01]	2.9 [11/26, 23]	8,746	0	2.8 [11/27, 05]	1.7 [11/09, 04]	1.6 [12/04, 07]	0
Queens College 2	7096-15	8,381	96	0	2.1 [11/08, 07]	1.9 [07/20, 09]	1.9 [11/05, 23]	8,231	0	1.8 [11/06, 06]	1.4 [01/26, 01]	1.3 [11/27, 00]	0

(Annual Means in parentheses are based on less than 75% available data)

*New York and Federal Ambient Air Quality Standard

[Date of Occurrence, Hour]

+ Denotes a contravention of NYS/Federal AAQS (Note: 9PPM standard is not exceeded unless 8-hour avg > 9.4 PPM)

OZONE - Continuous UV Light Absorption

NYSDEC Region **2**

Bronx, Brooklyn, and Staten Island Sites

Annual Averages 2001 through 2011
Annual Arithmetic Mean (ppm)

Station	Site No.	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Botanical Garden (Harding Lab/Pfizer Lab)	7094-06 / 7094-10	.017	.017	.017	.017	.018	.020	.020	.019	.020	.024	.021
IS 52	7094-07	(.014)	.017	.016	.016	.016	.017	.019	.019	.018	(.022)	xxx
Susan Wagner	7097-01	.032	.034	.029	.029	.030	.032	.026	.022	.025	.029	.028

Sampling was suspended at 7094-07 on 06/24/10 due to building construction

Comparison Between NYS Ambient Air Quality and Ambient Air Quality Standards for Calendar Year 2011

Station	Site No.	One Hour Averages							4th Highest Daily Maximum 8-Hour Average- Not to exceed an avg of 0.075 ppm during the last 3 years, <i>changed</i> from 0.08 ppm on 5/27/08*			
		Observations			Highest Values, PPM							
		Total Obs.	% Avail	>.12 PPM	1st	2nd	3rd	4th	2009	2010	2011	Avg
Botanical Gardens - Pfizer Lab	7094-10	8,747	99	0	.109 [06/09, 18]	.097 [07/11, 13]	.095 [07/07, 16]	.092 [07/06, 12]	.065 [06/07]	.073 [07/06]	.079 [07/07]	.072
IS 52	7094-07	xxx	xx	xx	xxx	xxx	xxx	xxx	.063 [04/26]	.062 [06/03]	xxx	xxx
Susan Wagner	7097-01	8,599	98	0	.113 [07/07, 12]	.104 [06/09, 12]	.103 [06/01, 15]	.098 [07/31, 14]	.078 [05/22]	.085 [07/28]	.087 [07/22]	.083 +

(Annual Means in parentheses are based on less than 75% available data)

*Federal Ambient Air Quality Standard

[Date of Occurrence, Hour]

+ Denotes a contravention of Federal AAQS

OZONE - Continuous UV Light Absorption

NYSDEC Region **2**

Manhattan and Queens Sites

Annual Averages 2001 through 2011 Annual Arithmetic Mean (ppm)

Station	Site No.	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
CCNY	7093-25	---	---	---	---	---	---	.019	.018	.017	.023	.021
Queensboro Comm Coll	7096-08	.021	xxx									
College Point P.O.	7096-09	.017	.018	.017	.016	.017	xxx	xxx	xxx	xxx	xxx	xxx
Queens College 2	7096-15	(.017)	.019	.019	.018	.020	.021	.021	.022	.021	.024	.024

Sampling was commenced at 7096-15 on 07/14/2001 and was terminated at 7096-08 on 12/30/2001 and at 7096-09 on 01/05/06.

Comparison Between NYS Ambient Air Quality and Ambient Air Quality Standards for Calendar Year 2011

		One Hour Averages							4th Highest Daily Maximum 8-Hour Average- Not to exceed an avg of 0.075 ppm during the last 3 years, <i>changed</i> from 0.08 ppm on 5/27/08*			
		Observations			Highest Values, PPM							
Station	Site No.	Total Obs.	% Avail	>.12 PPM	1st	2nd	3rd	4th	2009	2010	2011	Avg
CCNY	7093-25	8,238	94	0	.121 [06/09, 12]	.101 [06/01, 13]	.101 [07/21, 15]	.096 [07/11, 14]	.064 [08/22]	.074 [07/06]	.080 [06/08]	.072
Queens College 2	7096-15	8,540	97	1	.128 + [06/09, 12]	.107 [07/22, 15]	.100 [07/07, 16]	.096 [07/11, 11]	.067 [08/03]	.076 [07/04]	.084 [06/07]	.075

(Annual Means in parentheses are based on less than 75% available data)

*New York and Federal Ambient Air Quality Standard

[Date of Occurrence, Hour]

+ Denotes a contravention of NYS/Federal AAQS

NITROGEN DIOXIDE - Continuous Chemiluminescence

NYSDEC Region 2

Annual Averages 2001 through 2011

Annual Arithmetic Mean (PPB) - Primary Standard
(12 month average not to exceed 53 PPB *)

Station	Site No.	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
PS 59	7093-10	37.68	38.03	(38.41)	(34.70)	36.49	34.22	34.20	(36.08)	xxx	xxx	xxx
Botanical Garden (Harding Lab/Pfizer Lab)	7094-06/ 7094-10	31.21	27.64	26.68	24.37	26.59	24.82	24.55	22.91	21.85	20.10	20.86
IS 52	7094-07	(31.51)	30.39	30.19	29.67	28.79	26.46	25.65	25.18	24.57	(24.94)	xxx
College Point P.O.	7096-09	30.06	27.67	29.75	28.22	27.30	xxx	xxx	xxx	xxx	xxx	xxx
Queens College 2	7096-15	(28.19)	27.83	26.72	24.74	24.52	23.46	22.94	22.51	20.91	19.28	(21.62)

Sampling was terminated at 7096-09 on 01/05/06 and at 7093-10 on 06/30/08. Sampling was suspended at 7094-07 on 06/24/10 due to building construction

Comparison Between NYS Ambient Air Quality and Ambient Air Quality Standards for Calendar Year 2011

		One-Hour Averages - average of 98 th percentile for last 3 years not to exceed 75 PPB *								
		Observations		98 th Percentile, PPB				Highest Values, PPB		
Station	Site No.	Total	% Avail	2009	2010	2011	3-yr avg	1st	2nd	3rd
Botanical Gardens - Pfizer Lab	7094-10	8,708	99	66.0	70.0	60.7	65	69.3 [10/10, 18]	68.9 [02/17, 21]	68.3 [10/10, 19]
Queens College 2	7096-15	5,910	67	67.0	69.0	66.3	67	79.3 [02/24, 07]	77.5 [02/24, 06]	74.1 [02/24, 05]

(Annual Means in parentheses are based on less than 75% available data)

*New York and Federal Ambient Air Quality Standard

[Date of Occurrence, Hour]

+ Denotes a contravention of NYS/Federal AAQS

LEAD – TSP or PM₁₀ Samplers

NYSDEC Region 2

Annual Geometric Means (ug/m³) 2001 through 2011

Station	Site No.	2001	2002	2003	2004	2005*	2006	2007	2008	2009	2010	2011
Morrisania (PM ₁₀)	7094-05	--	--	--	--	--	--	--	--	--	(0.005)	0.006
IS 52 (PM ₁₀)	7094-07	--	--	--	--	--	--	0.005	0.005	0.005	(0.005)	xx
JHS 126 (TSP)	7095-43	--	--	0.03	0.03	(0.03)	0.02	0.02	0.013	0.014	xx	xx
Susan Wagner (TSP)	7097-01	0.02	0.01	0.01	xx	xx	xx	xx	xx	xx	xx	xx

Lab results not received for 7097-01 for 2004 and 2005. Sampling terminated at 7097-01 on 12/31/2005 and terminated at 7095-43 on 12/31/09.

* Only 1st quarter data received from lab in 2005. Sampling was suspended at 7094-07 on 06/24/10 due to building construction and monitor moved to 7094-05.

Comparison Between NYS Ambient Air Quality and Ambient Air Quality Standards for Calendar Year 2011

		24-Hour Concentrations - ug/m3								THREE MONTH ROLLING AVERAGES Maximum not to exceed 0.15 ug/m ³ , effective beginning 1/1/13 * (the old standard of 1.5 ug/m ³ will remain in force until that date)		
				Maximum		2nd Max.		3rd Max.		Highest Values, ug/m3		
Station	Site No.	Total Obs.	% Avail	Value	Date	Value	Date	Value	Date	2009	2010	2011
Morrisania (PM ₁₀)	7094-05	58	95	.045	09/30	.016	12/23	.013	05/27	--	0.008	0.008
IS 52 (PM ₁₀)	7094-07	xx	xx	xx	xx	xx	xx	xx	xx	0.006	(0.006)	xx

(Annual Means in parentheses are based on less than 75% available data)

*Federal Ambient Air Quality Standard

+ Denotes a contravention of Federal AAQS

SULFUR DIOXIDE - Continuous Pulsed Fluorescence

NYSDEC Region **3**

Annual Averages 2001 through 2011

Annual Arithmetic Mean (ppb) - Primary Standard
(12 month average not to exceed 30 PPB *)

Station	Site No.	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Mt. Ninham	3951-01	2.59	2.16	2.41	2.22	2.18	1.67	1.53	1.33	1.14	0.80	0.86
Belleayre Mtn.	5565-03	1.85	1.64	1.68	1.27	1.38	1.25	1.19	0.90	0.71	0.50	0.52

Comparison Between NYS Ambient Air Quality and Ambient Air Quality Standards for Calendar Year 2011

		One Hour Averages average of 99 th percentile for last 3 years not to exceed 75 PPB *						3-Hour Block Averages Maximum not to exceed 500 PPB more than once per calendar year *			24 Hour Average Maximum not to exceed 140 PPB more than once per calendar year *		
		Observations		99 th Percentile, PPB				Obs.	Highest Values, PPB		Obs.	Highest Values, PPB Midnight - Midnight	
Station	Site No.	Total Obs.	% Avail	2011	2010	2009	3-yr avg	Total	1 st	2 nd	Total	1 st	2 nd
Mt. Ninham	3951-01	8,182	93	10.6	10.0	17.7	13	2,689	12.1 [01/15, 14]	11.7 [02/11, 11]	342	5.9 [02/11]	4.9 [02/04]
Belleayre Mtn.	5565-03	8,579	98	7.0	6.2	10.4	8	2,823	9.2 [02/11, 11]	8.7 [01/15, 14]	361	5.5 [02/11]	3.9 [01/04]

(Annual Means in parentheses are based on less than 75% available data)

*New York and Federal Ambient Air Quality Standard

[Date of Occurrence, Hour]

+ Denotes a contravention of NYS/Federal AAQS

INHALABLE PARTICULATES (<2.5 Microns) - Rupprecht & Patashnick Sampler

NYSDEC Region **3**

Comparison Between NYS Ambient Air Quality and Ambient Air Quality Standards for Calendar Year 2011

(Average of last 3 years' annual means not to exceed 15 $\mu\text{g}/\text{m}^3$ *;
and average of 98th percentile for last 3 years not to exceed 35 $\mu\text{g}/\text{m}^3$ *, *changed* from 65 $\mu\text{g}/\text{m}^3$ on 12/17/06)

Station	Site No.	Total Obs.	Maximum Values, $\mu\text{g}/\text{m}^3$			98th Percentile, $\mu\text{g}/\text{m}^3$				Quarterly Averages, 2011				Annual Mean, $\mu\text{g}/\text{m}^3$			
			1 st	2 nd	3 rd	2011	2010	2009	3-yr avg	1 st	2 nd	3 rd	4 th	2011	2010	2009	3-yr avg
Newburgh (F)	3502-04	116	28.7 [08/19]	24.6 [01/15]	20.8 [02/17]	20.8	26.5	20.6	23	8.8	7.2	10.7	7.7	8.6	8.1	7.9	8.2
Newburgh (T)	3502-04	362	34.1 [01/01]	32.1 [07/21]	25.4 [09/04]	20.9	22.1	21.7	22	10.0	6.7	8.6	8.2	8.4	7.9	7.9	8.1
Rockland Co. (T)	4352-02	334	34.6 [01/01]	30.4 [07/21]	25.2 [06/09]	22.3	24.6	20.1	22	8.6	7.5	8.7	7.7	8.1	7.1	(5.8)	7.0
Mamaroneck (F)	5956-01	121	26.8 [02/17]	24.3 [06/08]	22.7 [07/20]	22.7	26.7	27.0	26	9.4	8.4	10.6	9.0	9.3	8.9	9.1	9.1
White Plains (T)	5902-04	336	31.6 [06/09]	30.6 [07/21]	29.3 [01/01]	24.5	22.4	21.6	23	9.3	8.0	9.3	9.2	9.0	7.4	7.2	7.9

(Annual Means in parentheses are based on less than 75% available data)

F = Federal Reference Method

T = TEOM (Tapered Element Oscillating Microbalance) not for Standards determination

* Federal Ambient Air Quality Standard

+ Denotes a contravention of Federal AAQS

OZONE - Continuous UV Light Absorption

NYSDEC Region **3**

Annual Averages 2001 through 2011
Annual Arithmetic Mean (ppm)

Station	Site No.	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Valley Central	3527-01	.030	.029	.029	.028	.031	.029	.030	.026	.025	.029	.025
Rockland County	4353-02	---	---	---	---	---	---	---	---	.025	.032	.029
White Plains	5902-04	.024	.024	.024	.019	.025	.025	.027	.024	.024	.025	.023

Sampling at 4353-02 commenced on 06/04/09

Comparison Between NYS Ambient Air Quality and Ambient Air Quality Standards for Calendar Year 2011

		One Hour Averages							4th Highest Daily Maximum 8-Hour Average- Not to exceed an avg of 0.075 ppm during the last 3 years, <i>changed</i> from 0.08 ppm on 5/27/08*			
		Observations			Highest Values, PPM							
Station	Site No.	Total Obs.	% Avail	>.12 PPM	1st	2nd	3rd	4th	2009	2010	2011	Avg
Valley Central	3527-01	8,436	96	0	.119 [07/20, 13]	.086 [05/27, 15]	.085 [07/21, 17]	.076 [07/21, 17]	.066 [05/20]	.075 [07/28]	.067 [05/26]	.069
Rockland County	4353-02	7,847	90	0	.092 [05/27, 15]	.086 [06/09, 15]	.085 [06/28, 15]	.085 [07/08, 13]	.065 [06/07]	.076 [07/12]	.074 [06/28]	.071
White Plains	5902-04	8,264	94	1	.139 + [06/09, 13]	.110 [07/21, 12]	.098 [07/07, 18]	.091 [06/01, 13]	.075 [08/15]	.075 [07/07]	.076 [07/11]	.075

(Annual Means in parentheses are based on less than 75% available data)

*Federal Ambient Air Quality Standard

[Date of Occurrence, Hour]

+ Denotes a contravention of Federal AAQS

OZONE - Continuous UV Light Absorption

NYSDEC Region **3**

Annual Averages 2001 through 2011
Annual Arithmetic Mean (ppm)

Station	Site No.	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Millbrook	1328-01	.030	.029	.028	.025	.025	.024	.027	.027	.027	.029	.027
Mt. Ninham	3951-01	.033	0.35	.031	.028	.029	.028	.029	.027	.027	.031	.027
Belleayre Mtn.	5565-03	.035	.036	.036	.034	.035	.034	.034	.030	.032	.035	.033

Comparison Between NYS Ambient Air Quality and Ambient Air Quality Standards for Calendar Year 2011

		One Hour Averages							4th Highest Daily Maximum 8-Hour Average- Not to exceed an avg of 0.075 ppm during the last 3 years, <i>changed</i> from 0.08 ppm on 5/27/08*			
		Observations			Highest Values, PPM							
Station	Site No.	Total Obs.	% Avail	>.12 PPM	1st	2nd	3rd	4th	2009	2010	2011	Avg
Millbrook	1328-01	7,933	91	0	.123 [07/20, 15]	.087 [07/21, 17]	.083 [06/28, 18]	.081 [06/07, 17]	.068 [05/20]	.076 [08/04]	.072 [06/07]	.072
Mt. Ninham	3951-01	8,319	95	0	.090 [06/09, 14]	.087 [04/29, 14]	.087 [07/20, 13]	.079 [07/21, 12]	.070 [05/21]	.077 [06/19]	.068 [06/28]	.071
Belleayre Mtn.	5565-03	8,552	98	0	.091 [05/26, 16]	.084 [07/20, 21]	.081 [07/21, 19]	.079 [06/07, 13]	.067 [05/20]	.070 [04/02]	.071 [06/07]	.069

(Annual Means in parentheses are based on less than 75% available data)
*Federal Ambient Air Quality Standard

[Date of Occurrence, Hour]
+ Denotes a contravention of Federal AAQS

LEAD - High Volume Air Samplers (Glass Fiber Filters)

NYSDEC Region **3**

Annual Geometric Means (ug/m3) 2001 through 2011

Station	Site No.	2001	2002	2003	2004	2005*	2006	2007	2008	2009	2010	2011
Wallkill	3566-02	0.04	0.05	0.04	(0.05)	0.03	0.02	0.02	0.018	0.016	0.011	0.015
Wallkill	3566-09	0.06	0.07	0.07	(0.05)	0.05	0.02	0.02	0.038	0.027	0.026	0.027
Scotchtown	3566-11	0.03	0.03	0.03	(0.04)	0.01	0.01	0.01	0.005	0.006	0.003	0.004

* Only 1st quarter data received from lab in 2005.

Comparison Between NYS Ambient Air Quality and Ambient Air Quality Standards for Calendar Year 2011

		24-Hour Concentrations - ug/m3								THREE MONTH ROLLING AVERAGES Maximum not to exceed 0.15 ug/m ³ , effective beginning 1/1/13 * (the old standard of 1.5 ug/m ³ will remain in force until that date)		
				Maximum		2nd Max.		3rd Max.		Highest Values, ug/m3		
Station	Site No.	Total Obs.	% Avail	Value	Date	Value	Date	Value	Date	2009	2010	2011
Wallkill	3566-02	59	97	.627	02/20	.437	03/10	.140	04/15	0.04	0.04	0.10
Wallkill	3566-09	58	95	11.073	02/20	.439	04/03	.382	06/02	0.08	0.08	1.03
Scotchtown	3566-11	56	92	.030	10/06	.016	05/03	.014	08/13	0.01	0.01	0.01

(Annual Means in parentheses are based on less than 75% available data)

* Federal Ambient Air Quality Standard

+ Denotes a contravention of Federal AAQS

SULFUR DIOXIDE - Continuous Pulsed Fluorescence

NYSDEC Region 4

Annual Averages 2001 through 2011
Annual Arithmetic Mean (ppb) - Primary Standard
(12 month average not to exceed 30 PPB *)

Station	Site No.	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Loudonville	0101-33	4.59	3.96	4.06	4.36	5.15	5.07	2.97	3.61	3.85	2.33	1.92
Schenectady	4601-05	3.94	3.51	3.30	3.82	5.16	5.35	2.33	3.42	2.63	1.92	(2.18)
Dyken Pond	4153-03	(1.74)	xxx									
Grafton State Park	4153-04	(2.31)	2.21	1.98	1.57	1.85	1.37	1.58	1.77	1.52	1.12	1.13

Sampling at 4601-05 was terminated on 06/30/11.

Comparison Between NYS Ambient Air Quality and Ambient Air Quality Standards for Calendar Year 2011

		One Hour Averages average of 99 th percentile for last 3 years not to exceed 75 PPB *						3-Hour Block Averages Maximum not to exceed 500 PPB more than once per calendar year *			24 Hour Average Maximum not to exceed 140 PPB more than once per calendar year *		
		Observations		99 th Percentile, PPB				Obs.	Highest Values, PPB		Obs.	Highest Values, PPB Midnight - Midnight	
Station	Site No.	Total Obs.	% Avail	2011	2010	2009	3-yr avg	Total	1 st	2 nd	Total	1 st	2 nd
Loudonville	0101-33	8,573	98	15.3	14.0	18.0	16	2,812	16.4 [02/05, 11]	14.5 [02/12, 11]	363	10.5 [02/12]	9.9 [02/05]
Schenectady	4601-05	4,249	98	(15.5)	16.0	23.0	18	1,399	12.8 [01/28, 17]	12.2 [03/18, 08]	178	6.6 [01/28]	6.5 [02/07]
Grafton State Park	4153-04	8,176	93	11.3	7.5	9.7	10	2,691	8.5 [02/11, 17]	8.4 [01/15, 17]	342	6.1 [01/25]	5.3 [02/11]

(Annual Means in parentheses are based on less than 75% available data)

*New York and Federal Ambient Air Quality Standard

[Date of Occurrence, Hour]

+ Denotes a contravention of NYS/Federal AAQS

INHALABLE PARTICULATES (<2.5 Microns) - Rupprecht & Patashnick Sampler

NYSDEC Region 4

Comparison Between NYS Ambient Air Quality and Ambient Air Quality Standards for Calendar Year 2011

(Average of last 3 years' annual means not to exceed 15 $\mu\text{g}/\text{m}^3$ *;
and average of 98th percentile for last 3 years not to exceed 35 $\mu\text{g}/\text{m}^3$ *, *changed* from 65 $\mu\text{g}/\text{m}^3$ on 12/17/06)

Station	Site No.	Total Obs.	Maximum Values, $\mu\text{g}/\text{m}^3$			98th Percentile, $\mu\text{g}/\text{m}^3$				Quarterly Averages, 2011				Annual Mean, $\mu\text{g}/\text{m}^3$			
			1 st	2 nd	3 rd	2011	2010	2009	3-yr avg	1 st	2 nd	3 rd	4 th	2011	2010	2009	3-yr avg
Albany Co. HD (F)	0101-13	341	43.6 [01/26]	32.5 [01/01]	29.9 [01/25]	23.5	23.5	22.8	23	10.5	6.4	10.4	7.7	8.7	7.9	8.3	8.3
Albany Co. HD (T)	0101-13	352	31.2 [01/26]	29.9 [01/01]	27.7 [09/04]	20.2	24.3	20.9	22	10.7	6.0	8.0	8.2	8.2	8.1	8.2	8.2
Loudonville (F)	0101-33	92	19.5 [07/11]	18.1 [06/08]	18.0 [12/14]	18.1	27.5	18.8	22	7.9	5.7	8.8	6.2	7.1	7.9	7.0	7.4

(Annual Means in parentheses are based on less than 75% available data)

F = Federal Reference Method

T = TEOM (Tapered Element Oscillating Microbalance) not for Standards determination

* Federal Ambient Air Quality Standard

+ Denotes a contravention of Federal AAQS

CARBON MONOXIDE - Continuous Non-Dispersive Infrared

NYSDEC Region 4

Annual Averages 2001 through 2011 Annual Arithmetic Mean (ppm)

Station	Site No.	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Loudonville	0101-33	0.4	0.4	0.5	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3
Schenectady	4601-05	0.5	0.5	0.5	0.4	0.4	0.5	0.5	0.3	0.3	0.4	xxx

Sampling at 4601-05 was terminated on 12/31/2010.

Comparison Between NYS Ambient Air Quality and Ambient Air Quality Standards for Calendar Year 2011

		One-Hour Average Maximum not to exceed 35 PPM more than once per calendar year *						Running 8-Hour Average (Non-Overlapping) Maximum not to exceed 9 PPM more than once per calendar year *					
		Observations			Highest Values, PPM			Observations			Highest Values, PPM		
Station	Site No.	Total Obs.	% Avail	>35 PPM	1st	2nd	3rd	Total	>9 PPM	1st	2nd	3rd	Days> 9PPM
Loudonville	0101-33	8,608	98	0	1.3 [01/04, 21]	1.2 [01/26, 02]	1.1 [01/04, 23]	8,563	0	1.0 [01/26, 06]	0.8 [01/05, 01]	0.7 [01/26, 16]	0

(Annual Means in parentheses are based on less than 75% available data)

*New York and Federal Ambient Air Quality Standard

[Date of Occurrence, Hour]

+ Denotes a contravention of NYS/Federal AAQS (Note: 9PPM standard is not exceeded unless 8-hour avg > 9.4 PPM)

OZONE - Continuous UV Light Absorption

NYSDEC Region 4

Annual Averages 2001 through 2011
Annual Arithmetic Mean (ppm)

Station	Site No.	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2010
Loudonville	0101-33	.026	.027	.025	.025	.027	.026	.028	0.026	0.027	0.030	0.027
Schenectady	4601-05	.024	.024	.023	.021	.023	.020	.022	0.021	0.023	0.025	(0.027)
Grafton Lake State Park	4153-04	--	.037	.037	.035	.037	.033	.034	0.034	0.033	0.036	0.032

Sampling at 4601-05 was terminated on 06/30/11.

Comparison Between NYS Ambient Air Quality and Ambient Air Quality Standards for Calendar Year 2011

		One Hour Averages							4th Highest Daily Maximum 8-Hour Average- Not to exceed an avg of 0.075 ppm during the last 3 years, <i>changed</i> from 0.08 ppm on 5/27/08*			
		Observations			Highest Values, PPM							
Station	Site No.	Total Obs.	% Avail	>.12 PPM	1st	2nd	3rd	4th	2009	2010	2011	Avg
Loudonville	0101-33	8,315	95	0	.105 [07/20, 18]	.078 [09/01, 13]	.077 [05/26, 15]	.074 [06/21, 13]	.064 [05/20]	.073 [09/01]	.065 [06/08]	.067
Schenectady	4601-05	4,275	97	0	.087 [05/26, 16]	.074 [06/08, 15]	.067 [05/28, 17]	.067 [06/07, 15]	.064 [05/20]	.073 [09/01]	.059 [06/01]	.065
Grafton Lake	4153-04	8,373	96	0	.104 [07/20, 18]	.070 [06/08, 11]	.069 [07/17, 13]	.067 [05/27, 17]	.068 [05/20]	.073 [07/04]	.061 [07/23]	.067

(Annual Means in parentheses are based on less than 75% available data)

*Federal Ambient Air Quality Standard

[Date of Occurrence, Hour]

+ Denotes a contravention of Federal AAQS

SULFUR DIOXIDE - Continuous Pulsed Fluorescence

NYSDEC Region **5**

Annual Averages 2001 through 2011
Annual Arithmetic Mean (ppb) - Primary Standard
(12 month average not to exceed 30 PPB *)

Station	Site No.	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Whiteface Mtn. - Lodge	1567-04	1.40	1.30	0.98	0.83	1.05	0.98	0.91	0.82	0.64	0.72	0.73
Paul Smiths College	1655-01	-	-	-	0.92	1.21	0.89	0.96	0.75	0.60	0.57	0.67
Piseco Lake	2050-01	1.18	1.09	1.06	0.83	0.66	0.62	0.65	0.56	0.44	0.34	0.32

Comparison Between NYS Ambient Air Quality and Ambient Air Quality Standards for Calendar Year 2011

		One Hour Averages average of 99 th percentile for last 3 years not to exceed 75 PPB *						3-Hour Block Averages Maximum not to exceed 500 PPB more than once per calendar year *			24 Hour Average Maximum not to exceed 140 PPB more than once per calendar year *		
		Observations		99 th Percentile, PPB				Obs.	Highest Values, PPB		Obs.	Highest Values, PPB Midnight - Midnight	
Station	Site No.	Total Obs.	% Avail	2011	2010	2009	3-yr avg	Total	1 st	2 nd	Total	1 st	2 nd
Whiteface Mtn. - Lodge	1567-04	8,563	98	5.4	4.7	6.7	6	2,821	6.4 [02/24, 23]	4.9 [01/25, 11]	359	3.0 [02/11]	2.9 [01/25]
Paul Smiths College	1655-01	7,927	90	4.5	3.2	6.7	5	2,609	5.3 [02/12, 08]	4.9 [02/12, 05]	333	2.9 [02/12]	2.6 [02/11]
Piseco Lake	2050-01	8,521	97	5.3	4.1	8.6	6	2,801	6.0 [11/02, 11]	5.7 [02/12, 11]	358	2.7 [02/11]	2.3 [01/25]

(Annual Means in parentheses are based on less than 75% available data)

*New York and Federal Ambient Air Quality Standard

[Date of Occurrence, Hour]

+ Denotes a contravention of NYS/Federal AAQS

INHALABLE PARTICULATES (<2.5 Microns) - Rupprecht & Patashnick Sampler

NYSDEC Region **5**
(Manhattan Sites)

Comparison Between NYS Ambient Air Quality and Ambient Air Quality Standards for Calendar Year 2011

(Average of last 3 years' annual means not to exceed 15 $\mu\text{g}/\text{m}^3$ *;
and average of 98th percentile for last 3 years not to exceed 35 $\mu\text{g}/\text{m}^3$ *, *changed* from 65 $\mu\text{g}/\text{m}^3$ on 12/17/06)

Station	Site No.	Total Obs.	Maximum Values, $\mu\text{g}/\text{m}^3$			98th Percentile, $\mu\text{g}/\text{m}^3$				Quarterly Averages, 2011				Annual Mean, $\mu\text{g}/\text{m}^3$			
			1 st	2 nd	3 rd	2011	2010	2009	3-yr avg	1 st	2 nd	3 rd	4 th	2011	2010	2009	3-yr avg
Whiteface Base (F)	1567-04	55	14.8 [07/20]	14.4 [06/08]	14.0 [08/19]	14.4	15.7	10.9	14	3.7	3.8	6.8	2.7	4.2	4.3	4.6	4.4
Whiteface Base (T)	1567-04	352	25.5 [09/03]	24.3 [07/20]	19.5 [07/21]	14.0	17.4	15.2	16	6.2	3.5	5.1	4.5	4.8	4.9	4.9	4.9

(Annual Means in parentheses are based on less than 75% available data)

F = Federal Reference Method

T = TEOM (Tapered Element Oscillating Microbalance) not for Standards determination

* Federal Ambient Air Quality Standard

+ Denotes a contravention of Federal AAQS

OZONE - Continuous UV Light Absorption

NYSDEC Region **5**

Annual Averages 2001 through 2011
Annual Arithmetic Mean (ppm)

Station	Site No.	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Stillwater	4567-01	.032	.032	.035	.032	.033	.029	.032	.030	.030	.032	.029
Whiteface Mtn. Summit	1567-03	.041	(.041)	.046	(.046)	(.041)	.040	.043	.038	.038	.039	.034
Whiteface Mtn. Base	1567-04	.036	.039	.038	.036	.036	.035	.035	.034	.033	.036	.034
Piseco Lake	2050-01	.031	.031	.031	.031	.029	.030	.030	.029	.029	.031	.028

Comparison Between NYS Ambient Air Quality and Ambient Air Quality Standards for Calendar Year 2011

		One Hour Averages							4th Highest Daily Maximum 8-Hour Average- Not to exceed an avg of 0.075 ppm during the last 3 years, <i>changed</i> from 0.08 ppm on 5/27/08*			
		Observations			Highest Values, PPM							
Station	Site No.	Total Obs.	% Avail	>.12 PPM	1st	2nd	3rd	4th	2009	2010	2011	Avg
Stillwater	4567-01	8,645	99	0	.084 [07/20, 21]	.079 [05/31, 18]	.079 [06/08, 17]	.076 [05/26, 17]	.068 [05/22]	.071 [06/19]	.066 [06/07]	.068
Whiteface Mtn. Summit	1567-03	8,043	92	0	.072 [06/08, 21]	.071 [10/09, 20]	.070 [07/17, 06]	.068 [10/10, 01]	.069 [08/17]	.073 [07/06]	.064 [10/10]	.068
Whiteface Mtn. Base	1567-04	8,555	98	0	.077 [06/08, 21]	.075 [07/21, 20]	.070 [07/11, 16]	.069 [07/17, 20]	.066 [05/20]	.072 [04/02]	.064 [07/21]	.067
Piseco Lake	2050-01	8,380	96	0	.078 [06/08, 17]	.076 [07/11, 13]	.069 [06/09, 11]	.068 [06/07, 16]	.068 [04/27]	.068 [07/04]	.064 [06/01]	.066

(Annual Means in parentheses are based on less than 75% available data)

*Federal Ambient Air Quality Standard

[Date of Occurrence, Hour]

+ Denotes a contravention of Federal AAQS

SULFUR DIOXIDE - Continuous Pulsed Fluorescence

NYSDEC Region **6**

Annual Averages 2001 through 2011
Annual Arithmetic Mean (ppb) - Primary Standard
(12 month average not to exceed 30 PPB *)

Station	Site No.	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Nick's Lake	2167-03	0.99	1.01	0.96	0.89	0.90	0.89	0.90	0.63	0.52	0.54	0.48

Comparison Between NYS Ambient Air Quality and Ambient Air Quality Standards for Calendar Year 2011

		One Hour Averages average of 99 th percentile for last 3 years not to exceed 75 PPB *						3-Hour Block Averages Maximum not to exceed 500 PPB more than once per calendar year *			24 Hour Average Maximum not to exceed 140 PPB more than once per calendar year *		
		Observations		99 th Percentile, PPB				Obs.	Highest Values, PPB		Obs.	Highest Values, PPB Midnight - Midnight	
Station	Site No.	Total Obs.	% Avail	2011	2010	2009	3-yr avg	Total	1 st	2 nd	Total	1 st	2 nd
Nick's Lake	2167-03	8,540	97	5.3	4.2	8.4	6	2,812	6.1 [01/15, 14]	6.1 [02/12, 08]	355	3.4 [02/12]	3.2 [01/25]

(Annual Means in parentheses are based on less than 75% available data)

*New York and Federal Ambient Air Quality Standard

[Date of Occurrence, Hour]

+ Denotes a contravention of NYS/Federal AAQS

INHALABLE PARTICULATES (<2.5 Microns) - Rupprecht & Patashnick Sampler

NYSDEC Region **6**

Comparison Between NYS Ambient Air Quality and Ambient Air Quality Standards for Calendar Year 2011

(Average of last 3 years' annual means not to exceed 15 $\mu\text{g}/\text{m}^3$ *;
and average of 98th percentile for last 3 years not to exceed 35 $\mu\text{g}/\text{m}^3$ *, *changed* from 65 $\mu\text{g}/\text{m}^3$ on 12/17/06)

Station	Site No.	Total Obs.	Maximum Values, $\mu\text{g}/\text{m}^3$			98th Percentile, $\mu\text{g}/\text{m}^3$				Quarterly Averages, 2011				Annual Mean, $\mu\text{g}/\text{m}^3$			
			1 st	2 nd	3 rd	2011	2010	2009	3-yr avg	1 st	2 nd	3 rd	4 th	2011	2010	2009	3-yr avg
Utica (T)	3202-01	357	28.1 [09/03]	26.0 [02/07]	25.7 [01/26]	22.2	23.8	24.7	24	10.8	5.5	6.3	8.5	7.8	8.1	8.2	8.0
Potsdam (F)	4477-01	xx	xx	xx	xx	xx	xx	27.4	xx	xx	xx	xx	xx	xx	xx	(6.0)	xxx

(Annual Means in parentheses are based on less than 75% available data)

F = Federal Reference Method

T = TEOM (Tapered Element Oscillating Microbalance) not for Standards determination

* Federal Ambient Air Quality Standard

+ Denotes a contravention of Federal AAQS

OZONE - Continuous UV Light Absorption

NYSDEC Region **6**

Annual Averages 2001 through 2011
Annual Arithmetic Mean (ppm)

Station	Site No.	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Nick's Lake	2167-03	.029	.029	.029	.028	.029	.027	.029	.028	.029	.030	.028
Perch River	2223-01	.041	.040	.036	.032	.034	.030	.032	.030	.030	.032	.029
Camden	3255-01	.026	.029	.027	.025	.024	.024	.026	.025	.021	.023	.022

Comparison Between NYS Ambient Air Quality and Ambient Air Quality Standards for Calendar Year 2011

		One Hour Averages							4th Highest Daily Maximum 8-Hour Average- Not to exceed an avg of 0.075 ppm during the last 3 years, <i>changed</i> from 0.08 ppm on 5/27/08*			
		Observations			Highest Values, PPM							
Station	Site No.	Total Obs.	% Avail	>.12 PPM	1st	2nd	3rd	4th	2009	2010	2011	Avg
Nick's Lake	2167-03	8,549	98	0	.084 [06/08, 16]	.077 [07/17, 17]	.075 [07/11, 13]	.070 [06/09, 12]	.067 [06/06]	.065 [07/07]	.058 [04/12]	.063
Perch River	2223-01	8,509	97	0	.086 [07/21, 16]	.083 [07/17, 18]	.081 [06/08, 15]	.081 [07/11, 13]	.068 [08/17]	.077 [08/31]	.069 [06/08]	.071
Camden (Operated 01/01 – 12/11)	3255-01	7,636	92	0	.079 [06/08, 15]	.070 [07/11, 12]	.065 [06/07, 12]	.064 [07/06, 12]	.054 [05/20]	.063 [07/06]	.060 [07/21]	.059

(Annual Means in parentheses are based on less than 75% available data)

*Federal Ambient Air Quality Standard

[Date of Occurrence, Hour]

+ Denotes a contravention of Federal AAQS

SULFUR DIOXIDE - Continuous Pulsed Fluorescence

NYSDEC Region 7

Annual Averages 2001 through 2011
Annual Arithmetic Mean (ppb) - Primary Standard
(12 month average not to exceed 30 PPB *)

Station	Site No.	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Camp Georgetown	2655-01	2.46	2.18	2.48	2.30	2.39	2.06	1.85	1.79	1.17	1.09	0.52
East Syracuse	3353-09	2.97	2.82	3.32	2.62	2.35	2.23	2.11	2.06	1.23	0.92	0.88

Comparison Between NYS Ambient Air Quality and Ambient Air Quality Standards for Calendar Year 2011

		One Hour Averages average of 99 th percentile for last 3 years not to exceed 75 PPB *						3-Hour Block Averages Maximum not to exceed 500 PPB more than once per calendar year *			24 Hour Average Maximum not to exceed 140 PPB more than once per calendar year *		
		Observations		99 th Percentile, PPB				Obs.	Highest Values, PPB		Obs.	Highest Values, PPB Midnight - Midnight	
Station	Site No.	Total Obs.	% Avail	2011	2010	2009	3-yr avg	Total	1 st	2 nd	Total	1 st	2 nd
Camp Georgetown	2655-01	8,476	97	8.1	7.0	14.0	10	2,783	10.1 [02/05, 02]	8.1 [02/17, 11]	356	4.2 [01/25]	4.0 [02/05]
East Syracuse	3353-09	8,625	98	8.6	10.0	14.0	11	2,843	10.2 [12/13, 14]	8.3 [02/12, 08]	364	4.2 [02/12]	3.8 [12/13]

(Annual Means in parentheses are based on less than 75% available data)

*New York and Federal Ambient Air Quality Standard

[Date of Occurrence, Hour]

+ Denotes a contravention of NYS/Federal AAQS

INHALABLE PARTICULATES (<2.5 Microns) - Rupprecht & Patashnick Sampler

NYSDEC Region 7

Comparison Between NYS Ambient Air Quality and Ambient Air Quality Standards for Calendar Year 2011

(Average of last 3 years' annual means not to exceed 15 $\mu\text{g}/\text{m}^3$ *;
and average of 98th percentile for last 3 years not to exceed 35 $\mu\text{g}/\text{m}^3$ *, *changed* from 65 $\mu\text{g}/\text{m}^3$ on 12/17/06)

Station	Site No.	Total Obs.	Maximum Values, $\mu\text{g}/\text{m}^3$			98th Percentile, $\mu\text{g}/\text{m}^3$				Quarterly Averages, 2011				Annual Mean, $\mu\text{g}/\text{m}^3$			
			1 st	2 nd	3 rd	2011	2010	2009	3-yr avg	1 st	2 nd	3 rd	4 th	2011	2010	2009	3-yr avg
East Syracuse (F)	3353-09	111	30.0 [09/03]	24.3 [07/29]	24.1 [07/20]	24.1	22.5	21.2	23	8.9	6.3	10.4	6.6	8.1	7.6	7.6	7.8

(Annual Means in parentheses are based on less than 75% available data)

F = Federal Reference Method

T = TEOM (Tapered Element Oscillating Microbalance) not for Standards determination

* Federal Ambient Air Quality Standard

+ Denotes a contravention of Federal AAQS

CARBON MONOXIDE - Continuous Non-Dispersive Infrared

NYSDEC Region 7

Annual Averages 2001 through 2011
Annual Arithmetic Mean (ppm)

Station	Site No.	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Syracuse	3301-22	0.5	0.5	0.6	0.5	0.5	0.5	0.5	0.4	0.4	0.5	0.3

Comparison Between NYS Ambient Air Quality and Ambient Air Quality Standards for Calendar Year 2011

Station		One-Hour Average						Running 8-Hour Average (Non-Overlapping)					
		Maximum not to exceed 35 PPM more than once per calendar year *						Maximum not to exceed 9 PPM more than once per calendar year *					
		Observations			Highest Values, PPM			Observations			Highest Values, PPM		
Site No.	Total Obs.	% Avail	>35 PPM	1st	2nd	3rd	Total	>9 PPM	1st	2nd	3rd	Days> 9PPM	
3301-22	8,287	95	0	2.2 [02/17, 15]	2.0 [02/16, 19]	2.0 [02/16, 20]	8,318	0	1.4 [02/17, 00]	1.4 [02/17, 16]	1.2 [02/05, 00]	0	

(Annual Means in parentheses are based on less than 75% available data)

*New York and Federal Ambient Air Quality Standard

[Date of Occurrence, Hour]

+ Denotes a contravention of NYS/Federal AAQS (Note: 9PPM standard is not exceeded unless 8-hour avg > 9.4 PPM)

OZONE - Continuous UV Light Absorption

NYSDEC Region 7

Annual Averages 2001 through 2011
Annual Arithmetic Mean (ppm)

Station	Site No.	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Camp Georgetown	2655-01	.033	.034	.033	.030	.033	.031	.033	.030	.030	.032	.030
East Syracuse	3353-09	.027	.028	.025	.023	.028	.026	.028	.027	.025	.027	.026
Fulton/Granby	3754-01	---	---	.035	.031	.034	.031	.031	.029	.029	.031	.028

Comparison Between NYS Ambient Air Quality and Ambient Air Quality Standards for Calendar Year 2011

		One Hour Averages							4th Highest Daily Maximum 8-Hour Average- Not to exceed an avg of 0.075 ppm during the last 3 years, <i>changed</i> from 0.08 ppm on 5/27/08*			
		Observations			Highest Values, PPM							
Station	Site No.	Total Obs.	% Avail	>.12 PPM	1st	2nd	3rd	4th	2009	2010	2011	Avg
Camp Georgetown	2655-01	8,487	97	0	.074 [06/08, 15]	.072 [09/01, 16]	.069 [07/17, 14]	.069 [07/21, 11]	.066 [05/20]	.071 [07/04]	.064 [07/23]	.067
East Syracuse	3353-09	8,542	98	0	.083 [06/08, 15]	.079 [07/17, 19]	.074 [06/07, 13]	.073 [07/21, 23]	.061 [05/22]	.073 [07/04]	.069 [07/23]	.067
Fulton/Granby (Operated 01/26 - 12/31)	3754-01	7,925	97	0	.089 [06/08, 14]	.086 [07/17, 17]	.076 [07/21, 22]	.074 [07/06, 12]	.065 [04/27]	.071 [04/03]	.067 [07/21]	.067

(Annual Means in parentheses are based on less than 75% available data)

*Federal Ambient Air Quality Standard

[Date of Occurrence, Hour]

+ Denotes a contravention of Federal AAQS

SULFUR DIOXIDE - Continuous Pulsed Fluorescence

NYSDEC Region **8**

Annual Averages 2001 through 2011

Annual Arithmetic Mean (ppb) - Primary Standard
(12 month average not to exceed 30 PPB *)

Station	Site No.	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Elmira	0701-05	3.70	3.66	4.06	3.31	3.18	3.12	3.29	2.80	2.01	2.08	1.65
Rochester	2701-08	7.57	5.22	5.43	(6.47)	xx						
Rochester	2701-01	5.96	5.16	5.42	(6.17)	xx						
Rochester	2701-22	--	--	--	(4.50)	4.20	4.18	4.06	2.91	2.54	2.19	(1.15)
Pinnacle	5001-04	--	--	--	--	--	--	1.73	1.67	1.04	0.63	0.71

Comparison Between NYS Ambient Air Quality and Ambient Air Quality Standards for Calendar Year 2011

		One Hour Averages average of 99 th percentile for last 3 years not to exceed 75 PPB *						3-Hour Block Averages Maximum not to exceed 500 PPB more than once per calendar year *			24 Hour Average Maximum not to exceed 140 PPB more than once per calendar year *		
		Observations		99 th Percentile, PPB				Obs.	Highest Values, PPB		Obs.	Highest Values, PPB Midnight - Midnight	
Station	Site No.	Total Obs.	% Avail	2011	2010	2009	3-yr avg	Total	1 st	2 nd	Total	1 st	2 nd
Elmira	0701-05	8,322	95	11.0	11.0	16.0	13	2,746	11.8 [02/12, 05]	10.9 [02/12, 02]	349	7.1 [12/19]	6.5 [12/09]
Rochester	2701-22	6,723	76	22.0	25.0	24.0	24	2,125	17.0 [07/12, 23]	15.6 [11/30, 20]	263	5.5 [12/12]	4.4 [04/24]
Pinnacle	5001-04	8,168	93	14.8	13.7	19.4	16	2,592	16.1 [02/05, 02]	15.3 [02/05, 05]	345	7.4 [02/11]	6.8 [02/05]

(Annual Means in parentheses are based on less than 75% available data)

*New York and Federal Ambient Air Quality Standard

[Date of Occurrence, Hour]

+ Denotes a contravention of NYS/Federal AAQS

INHALABLE PARTICULATES (PM10) - Wedding Sampler or R&P Model 2025 Sampler

NYSDEC Region **8**

Annual Averages 2001 through 2011

Annual Arithmetic Mean (ug/m3)

Station	Site No.	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	3 Yr Exp Val
Rochester (R&P)	2701-22	--	--	--	--	--	--	15	13	13	13	11	12

Comparison Between NYS Ambient Air Quality and Ambient Air Quality Standards for Calendar Year 2011

		24-Hour Concentrations - ug/m3							# of Days > 150 ug/m3 - Not to exceed an expected avg of one per year during the last 3 years *						
		Maximum		2nd Max.		3rd Max.		2009		2010		2011			
Station	Site No.	Total Obs.	Value	Date	Value	Date	Value	Date	Mea	Est	Mea	Est	Mea	Est	Exp Avg
Rochester (R&P)	2701-22	54	43	06/08	26	08/19	26	07/20	0	0.0	0	0.0	0	0.0	0.0

(Annual Means in parentheses are based on less than 75% available data)

*New York and Federal Ambient Air Quality Standard

[Date of Occurrence, Hour]

+ Denotes a contravention of NYS/Federal AAQS

INHALABLE PARTICULATES (<2.5 Microns) - Rupprecht & Patashnick Sampler

NYSDEC Region **8**

Comparison Between NYS Ambient Air Quality and Ambient Air Quality Standards for Calendar Year 2011

(Average of last 3 years' annual means not to exceed 15 $\mu\text{g}/\text{m}^3$ *;
and average of 98th percentile for last 3 years not to exceed 35 $\mu\text{g}/\text{m}^3$ *, *changed* from 65 $\mu\text{g}/\text{m}^3$ on 12/17/06)

Station	Site No.	Total Obs.	Maximum Values, $\mu\text{g}/\text{m}^3$			98th Percentile, $\mu\text{g}/\text{m}^3$				Quarterly Averages, 2011				Annual Mean, $\mu\text{g}/\text{m}^3$			
			1 st	2 nd	3 rd	2011	2010	2009	3-yr avg	1 st	2 nd	3 rd	4 th	2011	2010	2009	3-yr avg
Rochester 2 (F)	2701-22	91	29.8 [09/03]	25.3 [06/08]	23.0 [12/14]	25.3	23.4	22.2	24	9.2	(10.0)	10.2	7.4	9.2	8.4	7.6	8.4
Rochester 2 (T)	2701-22	268	24.6 [09/03]	23.0 [09/02]	21.3 [02/17]	17.1	23.2	18.3	20	8.0	5.5	7.2	6.5	6.8	7.3	6.9	7.0
Pinnacle (F)	5001-04	104	23.8 [09/03]	20.4 [07/11]	20.4 [08/07]	20.4	21.4	17.5	20	6.5	6.1	9.9	5.5	7.0	7.3	6.9	7.1

(Annual Means in parentheses are based on less than 75% available data)

F = Federal Reference Method

T = TEOM (Tapered Element Oscillating Microbalance) not for Standards determination

* Federal Ambient Air Quality Standard

+ Denotes a contravention of Federal AAQS

CARBON MONOXIDE - Continuous Non-Dispersive Infrared

NYSDEC Region **8**

Annual Averages 2001 through 2011
Annual Arithmetic Mean (ppm)

Station	Site No.	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Rochester	2701-08	0.4	0.4	0.5	(0.5)	xx						
Rochester Downtown	2701-01	0.5	0.5	0.5	(0.5)	xx						
Rochester 2	2701-22	--	--	--	(0.5)	0.5	0.5	0.4	0.3	0.4	0.4	(0.2)
Pinnacle	5001-04	--	--	--	--	--	--	--	--	--	0.16	0.16

Comparison Between NYS Ambient Air Quality and Ambient Air Quality Standards for Calendar Year 2011

		One-Hour Average Maximum not to exceed 35 PPM more than once per calendar year *						Running 8-Hour Average (Non-Overlapping) Maximum not to exceed 9 PPM more than once per calendar year *					
		Observations			Highest Values, PPM			Observations		Highest Values, PPM			
Station	Site No.	Total Obs.	% Avail	>35 PPM	1st	2nd	3rd	Total	>9 PPM	1st	2nd	3rd	Days > 9PPM
Rochester 2	2701-22	6,183	71	0	1.2 [12/12, 21]	1.2 [12/12, 20]	1.1 [02/16, 21]	5,878	0	1.0 [02/17, 01]	0.9 [12/12, 23]	0.7 [02/05, 01]	0
Pinnacle	5001-04	8,044	92	0	.35 [01/26, 07]	.33 [02/25, 07]	.33 [01/26, 04]	8,173	0	.31 [02/01, 15]	.30 [02/25, 08]	.30 [01/26, 10]	0

(Annual Means in parentheses are based on less than 75% available data)

*New York and Federal Ambient Air Quality Standard

[Date of Occurrence, Hour]

+ Denotes a contravention of NYS/Federal AAQS (Note: 9PPM standard is not exceeded unless 8-hour avg > 9.4 PPM)

OZONE - Continuous UV Light Absorption

NYSDEC Region **8**

Annual Averages 2001 through 2011
Annual Arithmetic Mean (ppm)

Station	Site No.	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Elmira	0701-05	.026	.027	.024	.024	.025	.024	.027	.024	.025	.027	.027
Rochester	2701-08	.026	.028	.025	(.025)	xxx	xxx	xxx	xxx	xxx	xxx	xxx
Rochester 2	2701-22	-	-	--	(.019)	.023	.024	.026	.026	.024	.028	.026
Pinnacle	5001-04	-	-	--	-	--	.034	.036	.032	.030	(.035)	.034
Williamson	5863-01	.029	.032	.032	.029	.029	.029	.033	.031	.031	.032	.023

Comparison Between NYS Ambient Air Quality and Ambient Air Quality Standards for Calendar Year 2011

		One Hour Averages							4th Highest Daily Maximum 8-Hour Average- Not to exceed an avg of 0.075 ppm during the last 3 years, <i>changed</i> from 0.08 ppm on 5/27/08*			
		Observations			Highest Values, PPM							
Station	Site No.	Total Obs.	% Avail	>.12 PPM	1st	2nd	3rd	4th	2009	2010	2011	Avg
Elmira	0701-05	8,318	95	0	.074 [06/08, 15]	.071 [07/11, 15]	.071 [07/17, 13]	.069 [06/07, 12]	.066 [04/27]	.067 [09/24]	.065 [06/09]	.066
Rochester 2	2701-22	6,658	76	0	.081 [07/17, 14]	.076 [07/02, 14]	.073 [07/23, 14]	.072 [07/18, 15]	.059 [04/27]	.072 [04/02]	.066 [06/07]	.065
Pinnacle	5001-04	8,210	94	0	.074 [05/26, 15]	.074 [07/02, 15]	.074 [07/11, 18]	.072 [05/12, 15]	.062 [05/20]	.068 [09/02]	.067 [06/01]	.065
Williamson (Operated 03/30 - 11/10)	5863-01	5,139	95	0	.081 [07/17, 15]	.068 [07/18, 15]	.067 [07/21, 20]	.066 [07/23, 14]	.061 [06/25]	.071 [07/06]	.058 [06/08]	.063

(Annual Means in parentheses are based on less than 75% available data)

*Federal Ambient Air Quality Standard

[Date of Occurrence, Hour]

+ Denotes a contravention of Federal AAQS

NITROGEN DIOXIDE - Continuous Chemiluminescence

NYSDEC Region **8**

Annual Averages 2001 through 2011

Annual Arithmetic Mean (ppb) - Primary Standard (12 month average not to exceed 53 PPB *)

Station	Site No.	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Rochester	2701-22	---	---	---	---	---	---	---	---	---	---	(8.41)
Pinnacle	5001-04	---	---	---	---	---	---	---	---	2.22	1.33	2.22

Comparison Between NYS Ambient Air Quality and Ambient Air Quality Standards for Calendar Year 2011

		One-Hour Averages - average of 98 th percentile for last 3 years not to exceed 75 PPB *								
		Observations		98 th Percentile, PPB				Highest Values, PPB		
Station	Site No.	Total	% Avail	2009	2010	2011	3-yr avg	1st	2nd	3rd
Rochester	2701-22	6,435	73	---	---	40.6	---	58.0 [02/04, 21]	52.9 [02/04, 22]	52.8 [02/17, 18]
Pinnacle	5001-04	7,527	86	14.1	13.7	14.3	14	21.8 [01/26, 07]	19.4 [04/22, 05]	18.8 [02/01, 09]

(Annual Means in parentheses are based on less than 75% available data)

*Federal Ambient Air Quality Standard

+ Denotes a contravention of Federal AAQS

LEAD -PM₁₀ Samplers

NYSDEC Region **8**

Annual Geometric Means (ug/m³) 2001 through 2011

Station	Site No.	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Rochester (PM ₁₀)	2701-22	--	--	--	--	--	--	.002	.003	.002	.002	.002

Comparison Between NYS Ambient Air Quality and Ambient Air Quality Standards for Calendar Year 2011

		24-Hour Concentrations - ug/m ³								THREE MONTH ROLLING AVERAGES Maximum not to exceed 0.15 ug/m ³ , effective beginning 1/1/13 * (the old standard of 1.5 ug/m ³ will remain in force until that date)		
				Maximum		2nd Max.		3rd Max.		Highest Values, ug/m ³		
Station	Site No.	Total Obs.	% Avail	Value	Date	Value	Date	Value	Date	2009	2010	2011
Rochester (PM ₁₀)	2701-22	54	89	.006	09/18	.005	10/12	.004	06/08	0.002	0.003	0.002

(Annual Means in parentheses are based on less than 75% available data)

*Federal Ambient Air Quality Standard

+ Denotes a contravention of Federal AAQS

SULFUR DIOXIDE - Continuous Pulsed Fluorescence

NYSDEC Region **9**

Annual Averages 2001 through 2011

Annual Arithmetic Mean (ppb) - Primary Standard

(12 month average not to exceed 30 PPB *)

Station	Site No.	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Buffalo	1401-18	7.16	5.78	5.47	3.35	3.73	2.78	2.70	2.34	1.74	1.50	2.01
Tonawanda	1472-04	9.68	10.79	8.89	7.87	5.83	3.93	4.29	xxx	xxx	xxx	xxx
Brookside Terrace	1472-14	--	--	--	--	--	--	(2.80)	2.83	2.10	1.83	3.43
Niagara Falls	3102-25	3.52	3.68	3.56	2.73	2.63	2.48	2.79	2.13	1.58	1.53	2.74

Comparison Between NYS Ambient Air Quality and Ambient Air Quality Standards for Calendar Year 2011

		One Hour Averages average of 99 th percentile for last 3 years not to exceed 75 PPB *						3-Hour Block Averages Maximum not to exceed 500 PPB more than once per calendar year *			24 Hour Average Maximum not to exceed 140 PPB more than once per calendar year *		
		Observations		99 th Percentile, PPB				Obs.	Highest Values, PPB		Obs.	Highest Values, PPB Midnight - Midnight	
Station	Site No.	Total Obs.	% Avail	2011	2010	2009	3-yr avg	Total	1 st	2 nd	Total	1 st	2 nd
Buffalo	1401-18	8,149	93	22.4	15.0	20.0	19	2,678	21.2 [02/16, 14]	18.2 [02/16, 23]	339	9.1 [02/16]	7.8 [02/11]
Brookside Terrace	1472-14	8,381	96	28.9	30.6	36.6	32	2,763	42.2 [10/07, 14]	29.8 [02/13, 11]	347	10.5 [10/07]	9.6 [07/17]
Niagara Falls	3102-25	8,656	99	12.3	16.3	21.3	17	2,850	12.1 [02/05, 11]	11.9 [12/13, 11]	363	8.1 [12/13]	7.4 [02/05]

(Annual Means in parentheses are based on less than 75% available data)

*New York and Federal Ambient Air Quality Standard

[Date of Occurrence, Hour]

+ Denotes a contravention of NYS/Federal AAQS

SULFUR DIOXIDE - Continuous Pulsed Fluorescence

NYSDEC Region **9**

Annual Averages 2001 through 2011
Annual Arithmetic Mean (ppb) - Primary Standard
(12 month average not to exceed 30 PPB *)

Station	Site No.	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Westfield	0675-01	4.76	4.11	4.26	3.49	3.49	2.70	2.74	2.51	1.73	1.32	1.22
Dunkirk	0601-04	8.37	7.46	6.69	5.31	4.32	3.13	3.27	2.67	2.55	1.54	1.72

Comparison Between NYS Ambient Air Quality and Ambient Air Quality Standards for Calendar Year 2011

		One Hour Averages average of 99 th percentile for last 3 years not to exceed 75 PPB *						3-Hour Block Averages Maximum not to exceed 500 PPB more than once per calendar year *			24 Hour Average Maximum not to exceed 140 PPB more than once per calendar year *		
		Observations		99th Percentile, PPB				Obs.	Highest Values, PPB		Obs.	Highest Values, PPB Midnight - Midnight	
Station	Site No.	Total Obs.	% Avail	2011	2010	2009	3-yr avg	Total	1st	2nd	Total	1st	2nd
Westfield	0675-01	8,659	99	17.1	15.4	24.3	19	2,849	17.4 [10/08, 05]	16.4 [02/05, 11]	365	10.9 [02/05]	8.9 [12/12]
Dunkirk	0601-04	8,660	99	25.8	30.0	46.2	34	2,847	37.1 [02/02, 17]	26.6 [02/18, 23]	365	10.1 [02/05]	9.1 [02/02]

(Annual Means in parentheses are based on less than 75% available data)

*New York and Federal Ambient Air Quality Standard

[Date of Occurrence, Hour]

+ Denotes a contravention of NYS/Federal AAQS

INHALABLE PARTICULATES (PM10) - Wedding Sampler or R&P Model 2025 Sampler

NYSDEC Region **9**

Annual Averages 2001 through 2011
Annual Arithmetic Mean (ug/m3)

Station	Site No.	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	3 Yr Exp Val
Niagara Falls (W)	3102-25	18	17	17	17	xx							
Niagara Falls (R&P)	3102-25	--	--	--	20	24	21	21	22	17	15	(14)	15
Westfield (W)	0675-01	14	12	12	11	xx							

Comparison Between NYS Ambient Air Quality and Ambient Air Quality Standards for Calendar Year 2011

		24-Hour Concentrations - ug/m3							# of Days > 150 ug/m3 - Not to exceed an expected avg of one per year during the last 3 years *						
		Maximum		2nd Max.		3rd Max.		2009		2010		2011			
Station	Site No.	Total Obs.	Value	Date	Value	Date	Value	Date	Mea	Est	Mea	Est	Mea	Est	Exp Avg
Niagara Falls (R&P)	3102-25	84	34	07/11	32	07/23	31	07/17	0	0.0	0	0.0	0	0.0	0.0

(Annual Means in parentheses are based on less than 75% available data)

* Federal Ambient Air Quality Standard

W=Wedding Sampler

R&P=R&P Model 2025 Sampler

Mea=Measured

Est=Estimated

+ Denotes a contravention of Federal AAQS

INHALABLE PARTICULATES (<2.5 Microns) - Rupprecht & Patashnick Sampler

NYSDEC Region **9**

Comparison Between NYS Ambient Air Quality and Ambient Air Quality Standards for Calendar Year 2011

(Average of last 3 years' annual means not to exceed 15 $\mu\text{g}/\text{m}^3$ *;
and average of 98th percentile for last 3 years not to exceed 35 $\mu\text{g}/\text{m}^3$ *, *changed from 65 $\mu\text{g}/\text{m}^3$ on 12/17/06*)

Station	Site No.	Total Obs.	Maximum Values, $\mu\text{g}/\text{m}^3$			98th Percentile, $\mu\text{g}/\text{m}^3$				Quarterly Averages, 2011				Annual Mean, $\mu\text{g}/\text{m}^3$			
			1 st	2 nd	3 rd	2011	2010	2009	3-yr avg	1 st	2 nd	3 rd	4 th	2011	2010	2009	3-yr avg
Buffalo (F)	1401-18	329	29.3 [06/08]	26.4 [07/18]	25.9 [02/24]	24.6	27.9	24.3	26	10.2	9.2	10.9	8.0	9.6	10.0	9.6	9.7
Buffalo (T)	1401-18	353	30.1 [06/08]	26.0 [09/03]	25.8 [07/18]	22.0	28.6	21.1	24	7.7	8.0	10.5	9.4	8.9	10.1	9.8	9.6
Lackawanna (F)	1402-14	xx	xx	xx	xx	xx	30.2	23.9	xx	xx	xx	xx	xx	xx	10.2	9.5	xx
Grand Island Blvd (T)	1472-13	288	28.8 [06/08]	27.8 [07/18]	26.7 [07/21]	24.8	30.9	23.5	26	10.4	8.3	11.0	9.7	9.9	11.4	10.3	10.5
Brookside Terrace (T)	1472-14	264	30.9 [06/08]	28.6 [07/18]	26.9 [05/31]	23.5	29.6	20.7	25	6.8	8.4	11.3	10.2	9.2	9.4	8.8	9.1
Niagara Falls (F)	3102-25	72	23.0 [09/03]	19.9 [07/11]	19.7 [07/17]	19.9	24.8	21.7	22	8.0	---	9.9	6.2	8.1	8.3	8.7	8.4
Niagara Falls (T)	3102-25	350	35.2 [09/03]	32.0 [07/18]	30.6 [06/08]	26.8	25.5	19.9	24	8.8	8.7	12.2	10.5	10.1	9.3	9.2	9.5
Westfield (F)	0675-01	115	29.5 [09/03]	23.1 [06/08]	21.6 [07/17]	21.6	23.5	17.0	21	7.0	6.9	10.4	5.0	7.3	7.6	7.4	7.4

Sampling at 1402-14 was terminated on 12/31/10.

(Annual Means in parentheses are based on less than 75% available data)

F = Federal Reference Method

T = TEOM (Tapered Element Oscillating Microbalance) not for Standards determination

* Federal Ambient Air Quality Standard

+ Denotes a contravention of Federal AAQS

CARBON MONOXIDE - Continuous Non-Dispersive Infrared

NYSDEC Region 9

Annual Averages 2001 through 2011
Annual Arithmetic Mean (ppm)

Station	Site No.	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Niagara Falls	3102-25	0.3	0.4	0.4	0.2	0.2	0.2	0.2	0.3	0.3	0.3	(0.3)
Buffalo	1401-18	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.4
Brookside Terrace	1472-14	--	--	--	--	--	--	0.4	(0.3)	xx	xx	xx

Comparison Between NYS Ambient Air Quality and Ambient Air Quality Standards for Calendar Year 2011

		One-Hour Average Maximum not to exceed 35 PPM more than once per calendar year *						Running 8-Hour Average (Non-Overlapping) Maximum not to exceed 9 PPM more than once per calendar year *					
		Observations			Highest Values, PPM			Observations		Highest Values, PPM			
Station	Site No.	Total Obs.	% Avail	>35 PPM	1st	2nd	3rd	Total	>9 PPM	1st	2nd	3rd	Days> 9PPM
Niagara Falls	3102-25	5,176	59	0	1.4 [01/23, 22]	1.3 [12/12, 07]	1.2 [01/23, 21]	5,199	0	1.0 [10/30, 05]	1.0 [12/03, 04]	0.9 [10/23, 05]	0
Buffalo	1401-18	7,661	87	0	1.8 [12/13, 03]	1.6 [11/23, 19]	1.6 [12/13, 04]	7,682	0	1.5 [12/13, 10]	1.3 [12/03, 06]	1.3 [12/13, 02]	0

(Annual Means in parentheses are based on less than 75% available data)

*New York and Federal Ambient Air Quality Standard

[Date of Occurrence, Hour]

+ Denotes a contravention of NYS/Federal AAQS (Note: 9PPM standard is not exceeded unless 8-hour avg > 9.4 PPM)

OZONE - Continuous UV Light Absorption

NYSDEC Region 9

Annual Averages 2001 through 2011
Annual Arithmetic Mean (ppm)

Station	Site No.	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Westfield	0675-01	.035	.038	.034	.033	.035	.034	.036	.034	.034	.038	.035
Dunkirk	0604-01	.032	.034	.033	.032	.033	.033	.034	.032	.031	.034	.031
Amherst	1451-03	.028	.031	.028	.028	.030	.028	.030	.029	.029	.031	.028
Middleport	3120-02	.030	.034	.034	.030	.036	.032	.036	.033	.031	.034	.035

Comparison Between NYS Ambient Air Quality and Ambient Air Quality Standards for Calendar Year 2011

		One Hour Averages							4th Highest Daily Maximum 8-Hour Average- Not to exceed an avg of 0.075 ppm during the last 3 years, <i>changed</i> from 0.08 ppm on 5/27/08*			
		Observations			Highest Values, PPM							
Station	Site No.	Total Obs.	% Avail	>.12 PPM	1st	2nd	3rd	4th	2009	2010	2011	Avg
Westfield	0675-01	8,606	98	0	.090 [06/08, 15]	.083 [07/11, 12]	.081 [06/07, 17]	.081 [07/21, 15]	.069 [04/24]	.075 [04/01]	.073 [07/06]	.072
Dunkirk	0604-01	8,658	99	0	.101 [06/08, 15]	.084 [07/06, 17]	.082 [07/16, 16]	.078 [05/31, 13]	.068 [04/24]	.080 [07/07]	.069 [05/31]	.072
Amherst	1451-03	8,678	99	0	.081 [07/21, 17]	.079 [06/08, 17]	.075 [07/23, 13]	.074 [07/11, 16]	.067 [08/15]	.072 [07/07]	.068 [08/13]	.069
Middleport (Operated 01/01 - 11/03)	3120-02	6,489	85	0	.091 [07/21, 19]	.086 [10/10, 13]	.084 [08/13, 17]	.083 [07/02, 13]	.064 [04/24]	.071 [04/15]	.073 [07/23]	.069

(Annual Means in parentheses are based on less than 75% available data)

*Federal Ambient Air Quality Standard

[Date of Occurrence, Hour]

+ Denotes a contravention of Federal AAQS

NITROGEN DIOXIDE - Continuous Chemiluminescence

NYSDEC Region **9**

Annual Averages 2001 through 2011

Annual Arithmetic Mean (PPB) - Primary Standard (12 month average not to exceed 53 PPB *)

Station	Site No.	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Buffalo	1401-18	21.00	19.74	19.82	18.16	18.92	15.53	16.41	15.05	13.88	13.00	(12.52)
Amherst	1451-03	15.43	13.47	13.06	11.99	12.66	10.51	10.23	(9.71)	(7.42)	8.19	8.32

Comparison Between NYS Ambient Air Quality and Ambient Air Quality Standards for Calendar Year 2011

		One-Hour Averages - average of 98 th percentile for last 3 years not to exceed 75 PPB *								
		Observations		98 th Percentile, PPB				Highest Values, PPB		
Station	Site No.	Total	% Avail	2009	2010	2011	3-yr avg	avg	2nd	3rd
Buffalo	1401-18	6,155	70	76.0	59.0	53.6	63	59.6 [01/17, 21]	57.8 [02/23, 20]	57.4 [02/17, 02]
Amherst	1451-03	8,659	99	35.0	46.0	49.5	44	56.5 [01/17, 06]	55.8 [01/17, 07]	55.5 [01/17, 03]

(Annual Means in parentheses are based on less than 75% available data)

*New York and Federal Ambient Air Quality Standard

[Date of Occurrence, Hour]

+ Denotes a contravention of NYS/Federal AAQS

LEAD - High Volume Air Samplers (Glass Fiber Filters)

NYSDEC Region 9

Annual Geometric Means (ug/m3) 1999 through 2009

Station	Site No.	1999	2000	2001	2002	2003	2004	2005*	2006	2007	2008	2009
Buffalo	1401-29	0.03	0.03	0.03	0.03	xxx	xxx	xxx	xxx	xxx	xxx	xx
Niagara Falls	3102-09	0.02	0.02	(0.02)	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xx
Niagara Falls	3102-25	---	---	---	0.02	0.02	0.02	0.02	0.01	0.01	xxx	xxx

Lab results not received for 7097-01 for 2004 and 2005.

(Annual Means in parentheses are based on less than 75% available data)

*New York and Federal Ambient Air Quality Standard + Denotes a contravention of NYS/Federal AAQS