

Appendix E-3
Yearly Air Quality Averages

SULFUR DIOXIDE - Continuous Pulsed Fluorescence

NYSDEC Region I
Metropolitan Air Quality Control Region

Annual Averages 1996 through 2006

Annual Arithmetic Mean (ppm) - Primary Standard
(12 month average not to exceed 0.03 PPM *)

Station	Site No.	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
Babylon	5150-02	.008	.006	.007	.007	(.010)	xxx	xxx	xxx	xxx	xxx	xxx
Eisenhower Park	2950-10	.006	.005	.006	.006	.006	.005	.004	.005	.004	.004	.004

Comparison Between NYS Ambient Air Quality and Ambient Air Quality Standards for Calendar Year 2006

Station	Site No.	One-Hour Averages		Running 3-Hour Averages			24 Hour Average (Calendar Day)				
		Total Obs.	% Avail	Maximum not to exceed 0.5 PPM more than once per calendar year *		Maximum not to exceed 0.14 PPM more than once per calendar year *		Highest Values, PPM			
				Observations	Highest Values, PPM Non-Overlapping	Observations	Highest Values, PPM Midnight - Midnight	Total	1 st	2 nd	3 rd
Eisenhower Park	2950-10	8,122	93	>0.5 PPM	1 st	2 nd	3 rd	>.14 PPM	1 st	2 nd	3 rd
				Total	.051	.042	.042	Total	.021	.020	.020
					[02/11, 05]	[02/11, 02]	[03/02, 08]		[03/02]	[01/28]	[02/21]
					0	0	0		0	0	0
					7,994	0	0	344	0	0	0

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

N=NAMS (National Air Monitoring Station)

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

NYSDEC Region 1
Metropolitan Air Quality Control Region
INHALABLE PARTICULATES - Wedding Sampler

Annual Averages 1995 through 2005

Station	Site No.	Annual Arithmetic Mean (ug/m ³)										3 Yr Exp Val			
		1995	1996	1997	1998	1999	2000	2001	2002	2003	2004		2005		
Babylon (Farmingdale)	5150-01	18	18	19	19	xx	xx	xx	xx	xx	xx	xx	xx	xx	xx
Eisenhower Park	2950-10	20	18	21	18	16	17	17	18	18	15	xx	xx	xx	xx
Roslyn Heights	2951-03	(18)	20	23	20	xx	xx	xx	xx	xx	xx	xx	xx	xx	xx

Lab results not received for 2950-10 for 2005. Sampling terminated at 2950-10 on 12/31/2005.

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

N=NAMS (National Air Monitoring Station)

Mer=Measured

+ Denotes a contravention of NYS/Federal AAQS

Est=Estimated

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

NYSDEC Region 1
Metropolitan Air Quality Control Region

Comparison Between NYS Ambient Air Quality and Ambient Air Quality Standards for Calendar Year 2006
(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 65 $\mu\text{g}/\text{m}^3$ *)

Station	Site No.	Total Obs.	Maximum Values			98 th Percentile				Quarterly Averages, 2006				Annual Mean			
			1 st	2 nd	3 rd	2006	2005	2004	3-yr avg	1 st	2 nd	3 rd	4 th	2006	2005	2004	3-yr avg
Eisenhower Park(T)	2950-10	362	46.4 [08/02]	42.4 [07/04]	42.3 [07/18]	34.3	36.8	32.4	34	12.3	11.9	15.5	12.5	13.0	13.4	13.2	13.2
Hempstead (F)	2950-18	114	37.5 [07/04]	34.1 [08/03]	33.0 [11/28]	33.0	35.1	30.8	33	11.1	10.1	12.8	9.1	10.8	12.4	11.3	11.5
Babylon (F)	5150-01	116	40.8 [07/04]	33.1 [11/28]	31.9 [06/22]	31.9	34.3	30.9	32	10.8	9.8	11.8	8.7	10.3	12.0	10.7	11.0

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

F = Federal Reference Method

T = TEOM (Tapered Element Oscillating Microbalance) - not applicable for standards compliance

* Federal Ambient Air Quality Standard
+ Denotes a contravention of Federal AAQS

CARBON MONOXIDE - Continuous Non-Dispersive Infrared
 NYSDEC Region I
 Metropolitan Air Quality Control Region

Annual Averages 1990 through 2000
 Annual Arithmetic Mean (ppm)

Station	Site No.	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
Eisenhower Park	2950-10	1.1	1.0	0.9	0.8	0.8	0.8	0.8	0.7	0.6	0.7	(0.7)

Sampling at 2950-10 was terminated on 5/31/2000.

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

N=NAMS (National Air Monitoring Station)
 + Denotes a contravention of NYS/Federal AAQS (Note: 9PPM standard is not exceeded unless 8-hour avg > 9.4 PPM)

[Date of Occurrence, Hour]

OZONE - Continuous UV Light Absorption

NYSDEC Region 1
Metropolitan Air Quality Control Region

Annual Averages 1996 through 2006

Station	Site No.	Annual Arithmetic Mean (ppm)											
		1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	
Babylon	5150-02N	.023	.024	.025	.025	.023	.023	.024	.025	.024	.024	.024	.024
Holtsville	5151-10	--	--	--	--	--	--	--	--	--	--	--	--
Riverhead	5155-01	.035	.036	.040	.035	.034	.030	.033	.030	(.029)	.035	.030	.039

Comparison Between NYS Ambient Air Quality and Ambient Air Quality Standards for Calendar Year 2006

Station	Site No.	Observations		One Hour Averages							4 th Highest Daily Maximum 8-Hour Average- Not to exceed an avg of 0.08 ppm during the last 3 years *	
		Total Obs.	% Avail	>.12 PPM	Highest Values, PPM							
					1 st	2 nd	3 rd	4 th	2004	2005		2006
Babylon	5150-02N	8,573	98	3	.139 + [07/17, 16]	.129 + [07/18, 16]	.128 + [08/02, 15]	.115 [08/01, 15]	.081 [07/22]	.098 [07/22]	.090 [08/01]	.089 +
Holtsville (Operated 04/26- 10/31)	5151-10	4,235	93	3	.142 + [07/17, 17]	.135 + [07/18, 15]	.126 + [08/02, 16]	.123 [08/01, 16]	---	---	.093 [08/03]	---
Riverhead (Operated 03/23- 11/01)	5155-01	4,942	92	3	.168 + [07/18, 16]	.146 + [07/17, 17]	.126 + [08/01, 18]	.120 [08/02, 17]	.069 [05/11]	.086 [07/21]	.101 [07/17]	.085 +

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

(Annual Means in parentheses are based on less than 75% available data) N=NAMS (National Air Monitoring Station)
 * Federal Ambient Air Quality Standard + Denotes a contravention of Federal AAQS (Note: .08 PPM standard is not exceeded unless avg. of 4th max 8-hr concentrations > .084 PPM) [Date of Occurrence, Hour]

NITRIC OXIDE & NITROGEN DIOXIDE - Continuous Chemiluminescence

NYSDEC Region 1

Metropolitan Air Quality Control Region

Annual Averages 1996 through 2006

Nitric Oxide - Annual Arithmetic Mean (ppm)												
Station	Site No.	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
Eisenhower Park	2950-10	.034	.034	.030	.032	.028	.029	.024	.023	(.018)	.018	.019

Nitrogen Dioxide - Annual Arithmetic Mean (ppm) - Primary Standard (12 month average not to exceed 0.05 PPM *)

Station	Site No.	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
Eisenhower Park	2950-10	.026	.025	.022	.025	.024	.024	.022	.021	(.019)	.020	.018

Comparison Between NYS Ambient Air Quality and Ambient Air Quality Standards for Calendar Year 2006

Station		Nitric Oxide			One-Hour Averages			Nitrogen Dioxide			One-Hour Averages		
		Observations			Highest Values, PPM			Observations			Highest Values, PPM		
		Total	%	Avail	1 st	2 nd	3 rd	Total	%	Avail	1 st	2 nd	3 rd
Eisenhower Park		8,415	96	96	.720 [11/28, 09]	.641 [11/28, 08]	.577 [12/06, 08]	8,415	96	96	.092 [11/28, 09]	.079 [12/06, 08]	.078 [11/28, 08]

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

* Federal Ambient Air Quality Standard

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[Date of Occurrence, Hour]