# **Appendix**

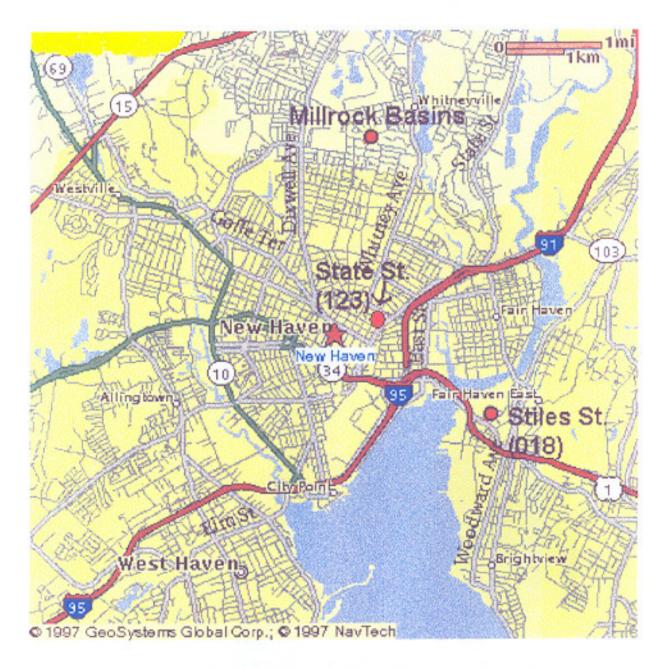
### Connecticut Department of Environmental Protection Recommendation for PM<sub>2.5</sub> Designation

**Technical Support Document** 

## Appendix K

# Connecticut DEP PM Monitoring Network Plan 7/1/98

New Haven, Stiles Street



New Haven Street Map (State St. & Stiles St. near I-91 & I-95) Hamden (Millrock Basins)

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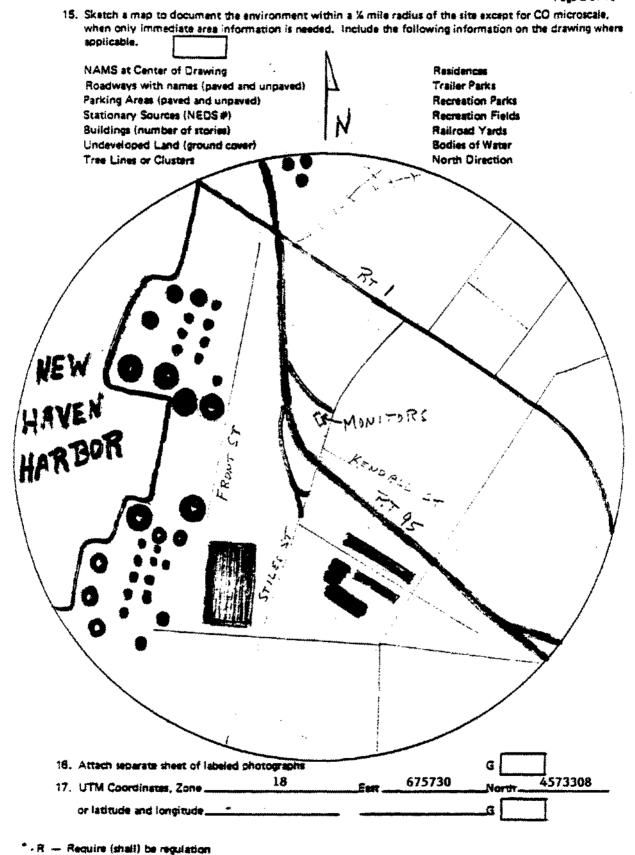
#### 3.0 Site Information

#### 3,1 Site Identification

1,	State CONNECTICUT
2.	CityNEW HAVEN
3.	Name of Urbanized Area
4.	Census Tract No.
5.	SAROAD Site Code 07-0700-018
6.	AIRS SITE CODE 09-009-0018
7.	(Local Agency Site No.)
8.	Site AddressSTILES ST.
9.	Names of Nearest Intersecting Streets <u>I 95 SOUTH ENTRANCE RAMP</u>
10a.	NAMS Pollutants Monitored at this Site PM 10 4/7/88
	eval. 12/9/86 SDN - PM 10 = NAMS 6/88
10b.	SLAMS Pollutants Monitored at this Site PM 2.5
:1.	Name of Report Preparer and Affiliation PAUL NORTON CTORP
12.	Phone Number 860-724-9615
13.	Date 10/28/85 REVISED 7/1/98
14.	Outstanding Landmarks O BRIDGE
	·

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- Guidance (should) by regulation, or guidance document

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Point	
ArraT 95 T.PAD	& PARTICULATE
G(V2)/IF	
Land use with ½ mile radius from	
Urban	Distance and Direction from Site
Residential	NE 1/8 to 1/4 mile
Commerical	N 0 to 1/4 mile. NR 0 to 1/8, E 0 - 1/4
Industrial	SE, S, SW 0-1/4mile, W 0-1/8mile, NW 0-3
Mobile	SK 0-1/4 mile
Other (describe) Haxi	or W 1/8-1/4 mile, NW 3/16-1/4 mile
Non-Urban	
Agricultural	·
Forest	
Desert	
Industrial	
Mobile	
Other (describe)	
Other (DESCHOOL	
Predominant land use by direction.	2 to 3 km from the site) (residential, commerical, industrial,
suburban, and urban)	G
RESIDENTIAL,	
FOREST & SUBURBAN	
residential.	
PARK	
HARBOR	
INDUSTRIAL	
COMMERCIAL	

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4.A history of stationary source emissions that may	influence the site is optional.	If the information is
available, please include in the following form:		G

Sources that influence Site (attach additional sheet if a	necessary)
---	------------

Name of Source and Location	NEDS	Emis	sions -	- Ton:	/Year	•		Effectiveness of Control	Influence	Direction	Distance from	
and Cocation	10#	TSP	502	NO <sub>2</sub>	CO	03	HÇ	Equipment	on Site	from Site	Site (M)	
U.I. #1		35.9						38.3%	SIGN	SSW	524.42	
LEX TERM	<u> </u>	.7	13.6	4.7	.4		1.1		MINOR	SW	994.44	
							<u> </u>					
		<u> </u>			<u> </u>	<u></u>	<u> </u>					
						<u> </u>						
										:		
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		$\dashv$	$\dashv$									
***												
							1					

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#### Mobile Source Worksheet

5. Mobile Sources that may Influence the Site: (All pollutants except SO<sub>2</sub>)

		Name	s of R	oadwi	ys (ne	arest	to site	ficst)	
			15	32	17/24				
Type: (check one) G		3/11	329	3					
Arterial Highway.				1					
Expressway						<u> </u>	1		
Freeway	<u> </u>			<u> </u>		<u> </u>	<u> </u>		
Parkway		<u> </u>		<u> </u>	<u> </u>	_			
Major Street or Highway			<u> </u>	<u> </u>		<u> </u>			
Through Street or Highway	<u> </u>		<u> </u>	<u> </u>	<u> </u>	<b>_</b>			
Local Street or Road	<u> </u>	<u> </u>		<u> </u>	ļ	<u> </u>			
Traffic Activity: (complete as applicable) G		<u> </u>	<u> </u>	<u> </u>		<u> </u>			
1. *Distance of roadway from air intake(ft)	25	30	_			<u> </u>	<u> </u>		
2. Direction of roadway from air inlet (8 pts)	E	<b>N</b>	SE	L					
3. Composition of roadway.	ASP	H AS	H A	SPH					
4. Number of traffic lanes	2	1	4		<u> </u>				
5. Average daily traffic (estimate)(K)	_5_	4	X 10	OK			L		
Average vehicle speed (estimate, mph)	10	10	55					Lunava	
7. Traffic is 1 or 2 way (1 or 2)	2	1	2						
8. Number of parking lanes	2	0	0						
9. Are parking lanes used for traffic part of day? (yes,no)	жо	N/A	B/A						
ID. Roadway paved (yes, no)	Y	¥	¥						
1. Is dust visibly re-entrained? (yes, no)	N	N	¥						$\neg$
• • • • • • • • • • • • • • • • • • • •	N	N	<u>-</u>						
12. Does roadway have curb? (yes, no)	<del> </del>								$\neg$
Does dust collect near edges? (yes, no)	Y	Y	<u> </u>	<u> </u>	L				

	Blocks	#re	reserved	for	site	evaluation	only.

\*Identify probe, if more than one.

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Smooth	, Rolling,	Roug	·
2. Topographic feature	s that influence the site:		
{Types — hills, valley	s, depressions, bodies of war	ter, ridges, cliffs)	<del>\</del>
	(attach additional	sheet if necessary)	
Type	Size	Direction from Site	Distance from Site
NEW HAVEN HARBOR	2 miles x lmile	s.w.	0.5 Km
			,
			<u>, , , , , , , , , , , , , , , , , , , </u>
Obstructions (See Appe	ndix E)		
Obstructions (See Appe			
-	mplete information:	ione.	
List obstructions and co	mplete information:	ONE Direction from Site	Distance from Site
List obstructions and co	mplete information:	Direction from	
List obstructions and co	mplete information:	Direction from	

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3.5	5 Meteorology and Climatology						
	1. Source of representative meteorological data (c	heck one):					G
	National Weather Service						
	Airport Weather Service						,
	Site Weather Station						
	Other (specify) SHED ST	ATE ST.					
	Not available						
	<ol><li>Describe the annual and seasonal weather patter table of frequency of occurrence for wind speed desired if available. Provide attachments.</li></ol>	is and direc	tions. Pollu	tant rose	for the		
	3. UTM Coordinates, Zone 18 Eas	, <u>674.30</u>	00No	rth <u>4575</u>	.100		
	or Latitude and Longitude	**************************************	·······				G
	4. Location of representative meteorological static	n from mo	nitoring site	•			G
	Distance 1.5 miles	Dir	ection	NW		L	
3.6	Probe Siting (See Appendix E)	,	·····	Pollutan	Ţ		<b>T</b>
	PLATFOR	so	2 PM1	) TEOM	PM2.5	<u> </u>	
1,	Location (top of building, ground level, other specific					ļ	-
2.	. If an building, give heig	ht (ML	1.5	2.5		<u> </u>	
	. vid	(M)	4	2	ł	<u> </u>	
	dep	ф (M)	2.5	2.5		<u> </u>	<b></b>
3.	. Horizontal distance from supporting structure (M)		0	0			R
4.	Vertical distance above supporting structure (M)		N/A	N/A	<u> </u>	N/A	R <u>                                  </u>
5.	Height of probe above ground (M)	*	3	3.5			R
6.	Distance from trees (M)		16	16			G
7.	Horizontal distance from edge of nearest traffic lane (See Appendix E, Fig. 1 and Tables 1, 2, 3 and 4) (M		15	16			R L
3.	Horizontal distance from nearest parking lot (M)	N/A	NONE				G $\square$
9.	Horizontal distance from walls, parapets, penthouses etc. (M)		N/A	~- <u>-</u>			я 🔲
10.	Distance from obstacles, such as buildings		NONE	NONE			я 🔲
11.	Distance from furnace or incineration flues (M)		<u> </u>				GШ
12.	Unrestricted air flow		Y	Y	Y		R $\square$
13.	Located in paved area or vegetative ground cover		NEG	NEG	NRG.		G

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#### 3.7 Monitor Information

c	Documentation of	monitoring info	emation Pollutants			
	so <sub>2</sub>	PM10	PM2.5	PM10		
1. Instrument manufacturer		WEDDING	R& P	R& P		
2. Instrument Model No.		1200	2025	2000		
3. SAROAD Method Code		62		79		
1. Date Sampling Began		10-85	12-31-98		········	
5. Frequency time interval of measurement		24 MR 6th DA	24 HR 3rd DAY	HOURLY		
5. Probe material		N/A	s.s.	s.s		
. Residence time*		H/A	20 SEC	20 SEC		
Volume II, May, 1977,  Site and Data History Indicate where applicable:  1 Changes in inlet probe				······································		
8 Site and Data History Indicate where applicable: 1 Changes in inlet probe 2. Changes in manifold 3. Instrumental changes						·
8 Site and Data History Indicate where applicable: 1 Changes in inlet probe						
8 Site and Data History Indicate where applicable: 1 Changes in inlet probe	ges since beginning	g of data record				
8 Site and Data History Indicate where applicable: 1 Changes in inlet probe	ges since beginning	g of data record				
8 Site and Data History Indicate where applicable: 1 Changes in inlet probe 2. Changes in manifold 3. Instrumental changes 4. Breaks in the data record 5. Pollutant concentration chan 6. Time periods of invalid data	ges since beginning and reason for occ	g of data record				
8 Site and Data History Indicate where applicable: 1 Changes in inlet probe	ges since beginning and reason for occi t	g of data record				
Indicate where applicable:  1 Changes in inlet probe  2. Changes in manifold  3. Instrumental changes  4. Breaks in the data record  5. Pollutant concentration chan  6. Time periods of invalid data and an i	ges since beginning and reason for occi t	g of data record				
8 Site and Data History Indicate where applicable: 1 Changes in inlet probe	ges since beginning and reason for occi t	g of data record				

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#### 3,9 Site Representativeness

	<del></del>	······································	Pollutant	1	
Scales of Representativeness	so <sub>2</sub>	PM10	PM10		PM 2.5
(a) Represents a microscale (several meters - 100 meters)					<b>✓</b>
(b) Represents a middle scale (0,1 - 0,5 km)		· V	V		1
(c) Represents a neighborhood scale (0.5 - 4 km)					
(d) Represents an urban scale (4,0 - 50 km)					
2. Averaging Times A				······································	,
(a) Represents 24-hour average	•	<u> </u>			
(b) Represents 8-hour average	N/A	N/A	N/A	N/A	N/A
(c) Represents 1-hour average	N/A	N/A	<b>V</b>	ļ	N/A
(d) Represents annual average	r, were annual province of the control of the contr	V	\ \ \		<b>V</b>
3. Monitoring Objectives R					
(a) Category (a)					
(1) Represents worst condition		<u> </u>	V		<b>V</b>
(2) Represents typical condition					
(b) Category (b)					
		1		<u>-</u>	
(1) Represents worst condition	1	İ	1 1	Į	

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#### 3.19 Custody and Control of Data

1. Ag	gency responsible for data collection	CTORP
2. Inc	dividual's name (print)	ALAN LESTON
3. Ph	one number	860-424-3027
	·	RRI
5. Inc	dividual's name (print)	CERIS PERCINS
s. Ph	one number	
7. Re	eports of data are made to: (agency name	) USEPA RECIGE I
— 8. Inc	cividuai's name (print)	NORK BELOTE
9. Ph	one number	781-860-6700

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#### 4.0 SITE EVALUATION

#### 4.1 Instructions for NAMS Site Evaluators

The NAMS Hard Copy Information (NHCI) form has been revised to allow its use in the site evaluation process. Each item on this form should have been completed prior to the time of site evaluation. At the time of the site evaluation, copies of the forms will be used during the site evaluations. Each item will be checked for completeness, accuracy and compliance with siting criteria. Then, each block "[]" will be filled in with either YES or NO.

If the siting criteria is met, put YES in the appropriate space. If it is not met, put NO, It will be necessary to provide details pertaining to NO answers in the space below designated for comments and recommendations. Show the section and item number, describe the deficiency, and recommend action required for correction. Estimate the time needed to make the correction on each item found in violation.

Any waivers requested or granted should be indicated.

a	.2	^	40 500	Daron	mendati ons
٠.	4	Commen	13 AHTU	- New Mill	INTERNACIONIS

a.	Site number	page nos.	-	of	
b.	Name of evaluator (print)			*******	
ċ.	Date of evaluation		······································		
ď.	Comments by section and item numbers (use extra pages when n	eeded)			
	Sectionitem				