



# Connecticut Department of Energy and Environmental Protection



# 2016 Air Monitoring Network Plan

May 12, 2016  
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SIPRAC



Connecticut Department of Energy and Environmental Protection



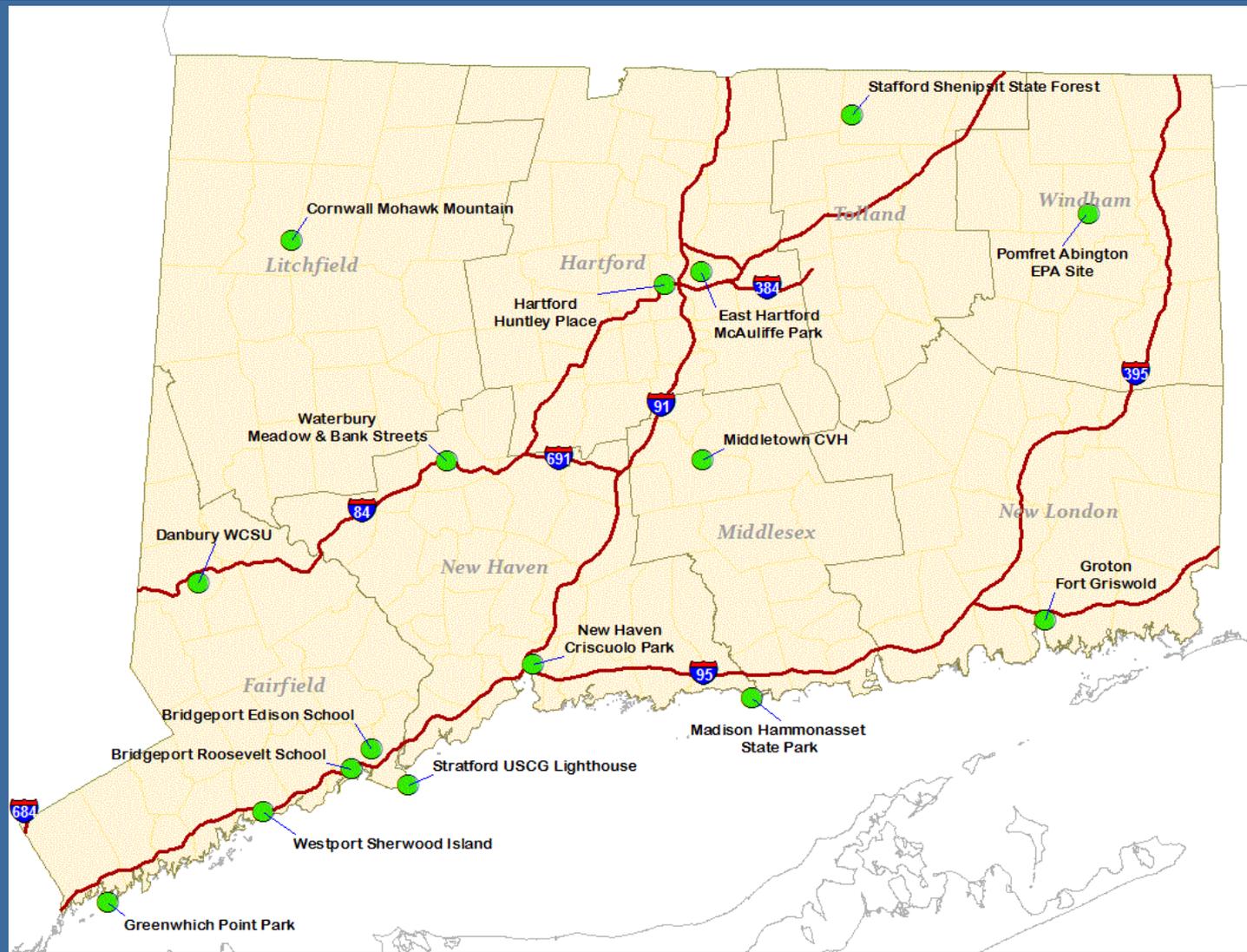
# Regulatory Requirement (40 CFR 58.10)

## Annual monitoring network plan

- Contains justification for all current and planned monitors.
- Includes evidence monitors meet all required siting, QA, methodology, network design criteria. Covers SLAMS, NCore, near-road, PAMS, STN, SPM.
- Based on 5-year network assessments.
- Submitted by July 1 each year to EPA after 30-day public inspection and comment period.
- Subject to EPA approval.

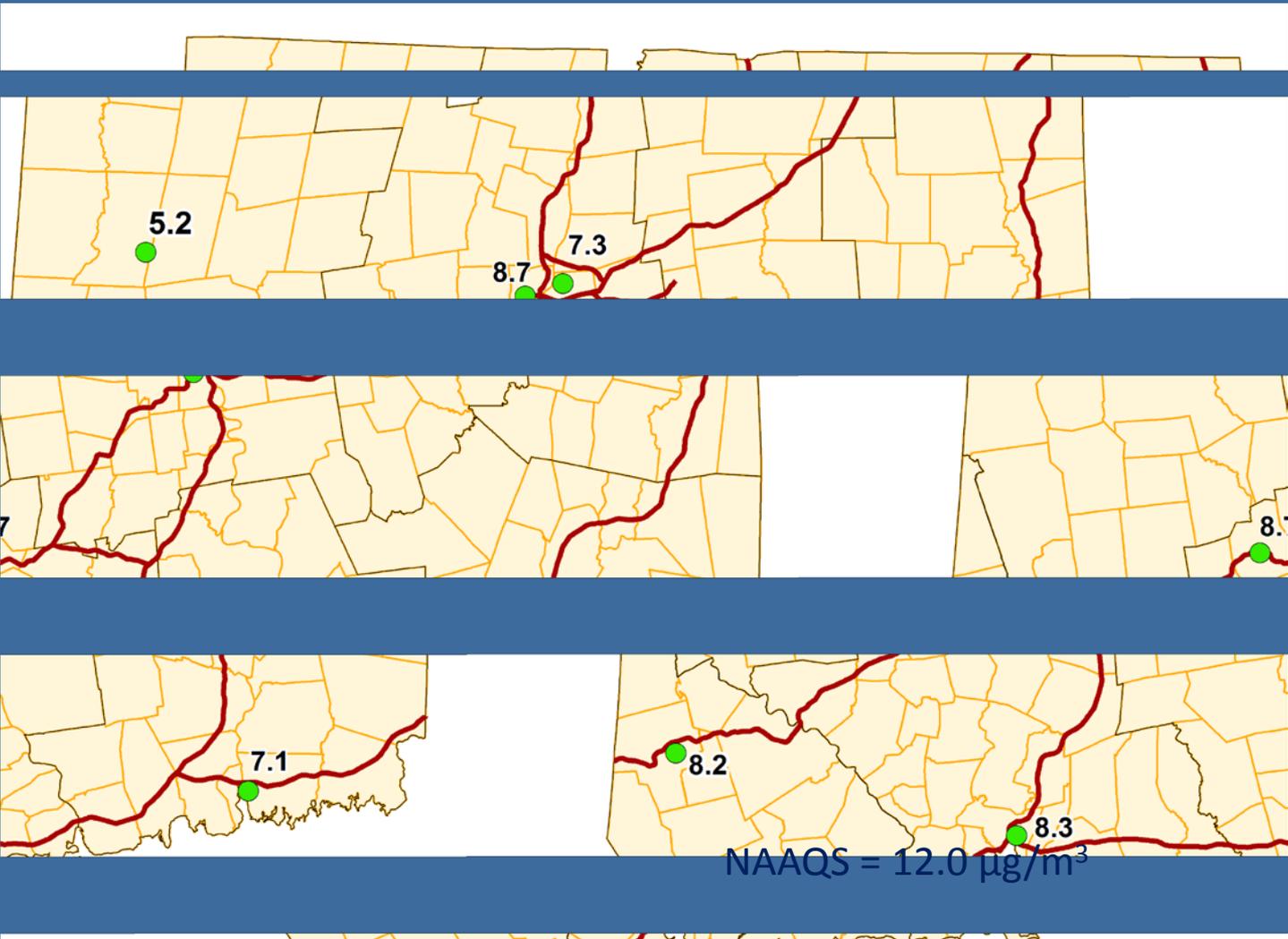


# DEEP Current Monitoring Network

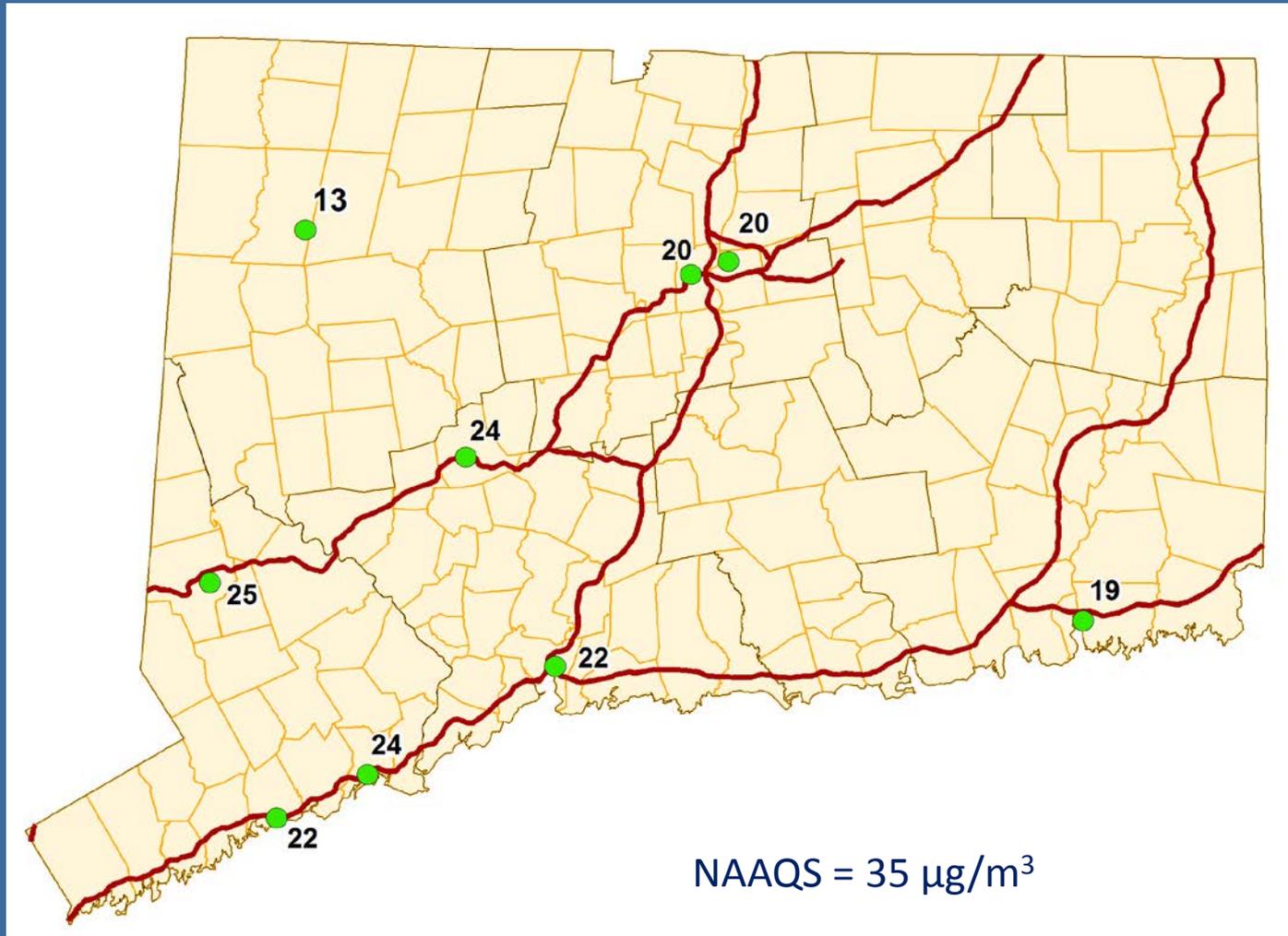


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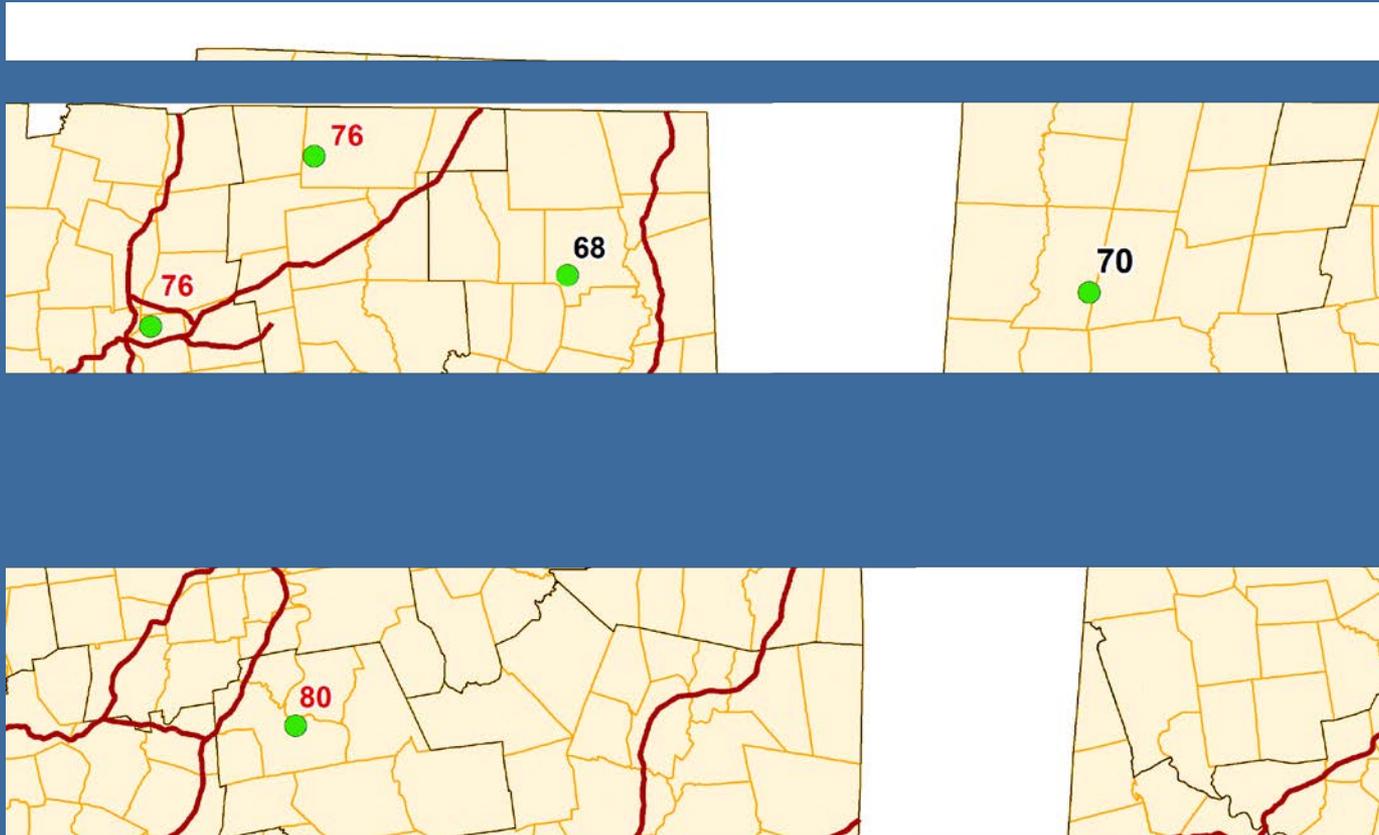
# 2015 Annual PM<sub>2.5</sub> Design Values (μg/m<sup>3</sup>)



# 2015 Daily PM<sub>2.5</sub> Design Values ( $\mu\text{g}/\text{m}^3$ )



# 2014 Ozone Design Values (ppb)



NAAQS = 70 ppb



# Criteria Pollutant NAAQS Design Values

## CO

Site	1-Hr Design Value (ppm)	8-Hr Design Value (ppm)
Bridgeport	2.4	1.8
Cornwall	2.6	0.5
East Hartford	1.6	1.0
Hartford	1.8	1.3
New Haven	1.6	1.3
NAAQS	35	9

## NO<sub>2</sub>

Site	1-Hr Design Value (ppb)	Annual Design Value (ppb)
Cornwall	24	2
East Hartford	45	10
Hartford	50	15
New Haven	52	14
NAAQS	100	53

## PM<sub>10</sub>

Site	Daily Design Value (µg/m <sup>3</sup> STP)
Bridgeport	40
Cornwall	23
East Hartford	26
New Haven	34
NAAQS	150

## SO<sub>2</sub>

Site	1-Hr Design Value (ppb)
Bridgeport	9
Cornwall	5
East Hartford	7
New Haven	13
NAAQS	75

## Pb

Site	Max 3-Yr 3-Month Mean (µg/m <sup>3</sup> )
New Haven	0.04
NAAQS	0.15

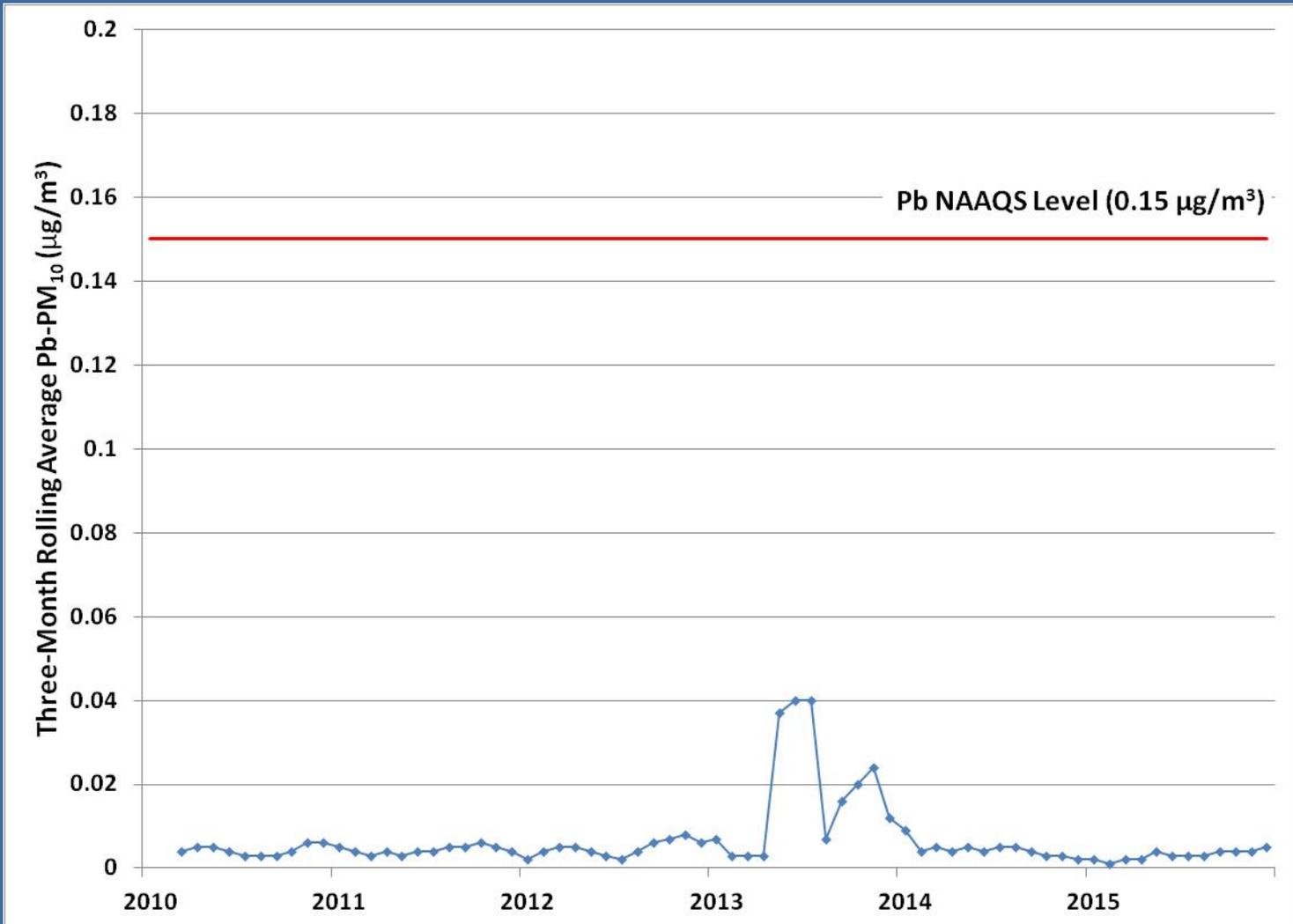


# Proposed Changes for 2016-2017

- Discontinue Pb (lead) sampling at New Haven.
- Suspend PAMS monitoring at East Hartford and New Haven.
- Replace  $\text{NO}_x$  monitors with direct  $\text{NO}_2$  method.
- Discontinue  $\text{NO}_x$  monitoring at Cornwall.
- Move  $\text{SO}_2$  monitor from Edison School to Roosevelt School in Bridgeport.
- Terminate collocated  $\text{PM}_{2.5}$  sampling in New Haven and Waterbury and establish in East Hartford.
- Discontinue  $\text{PM}_{10}$  FRM sampling in Cornwall



# Pb Monitoring Results

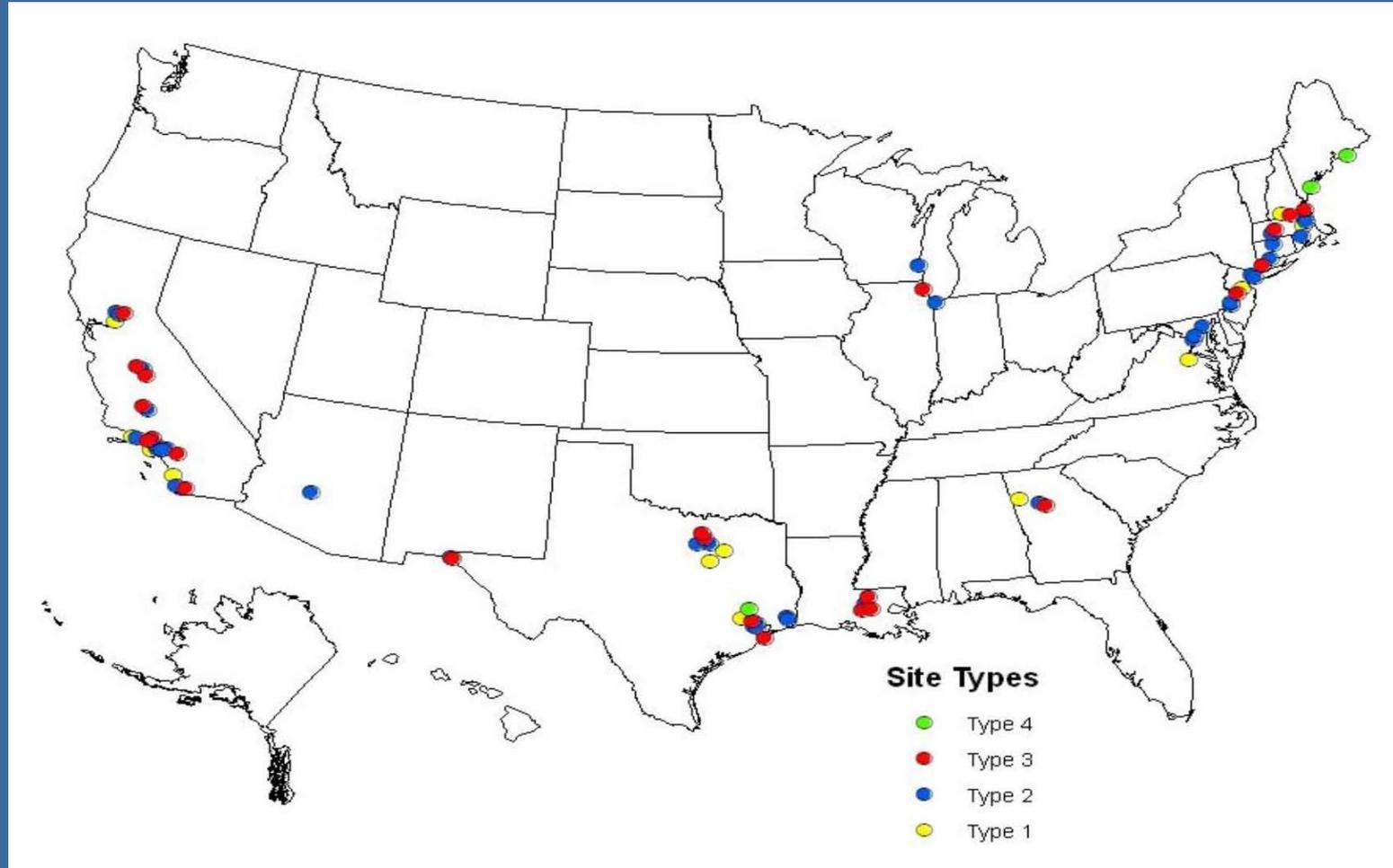


# Ozone Precursor Monitoring

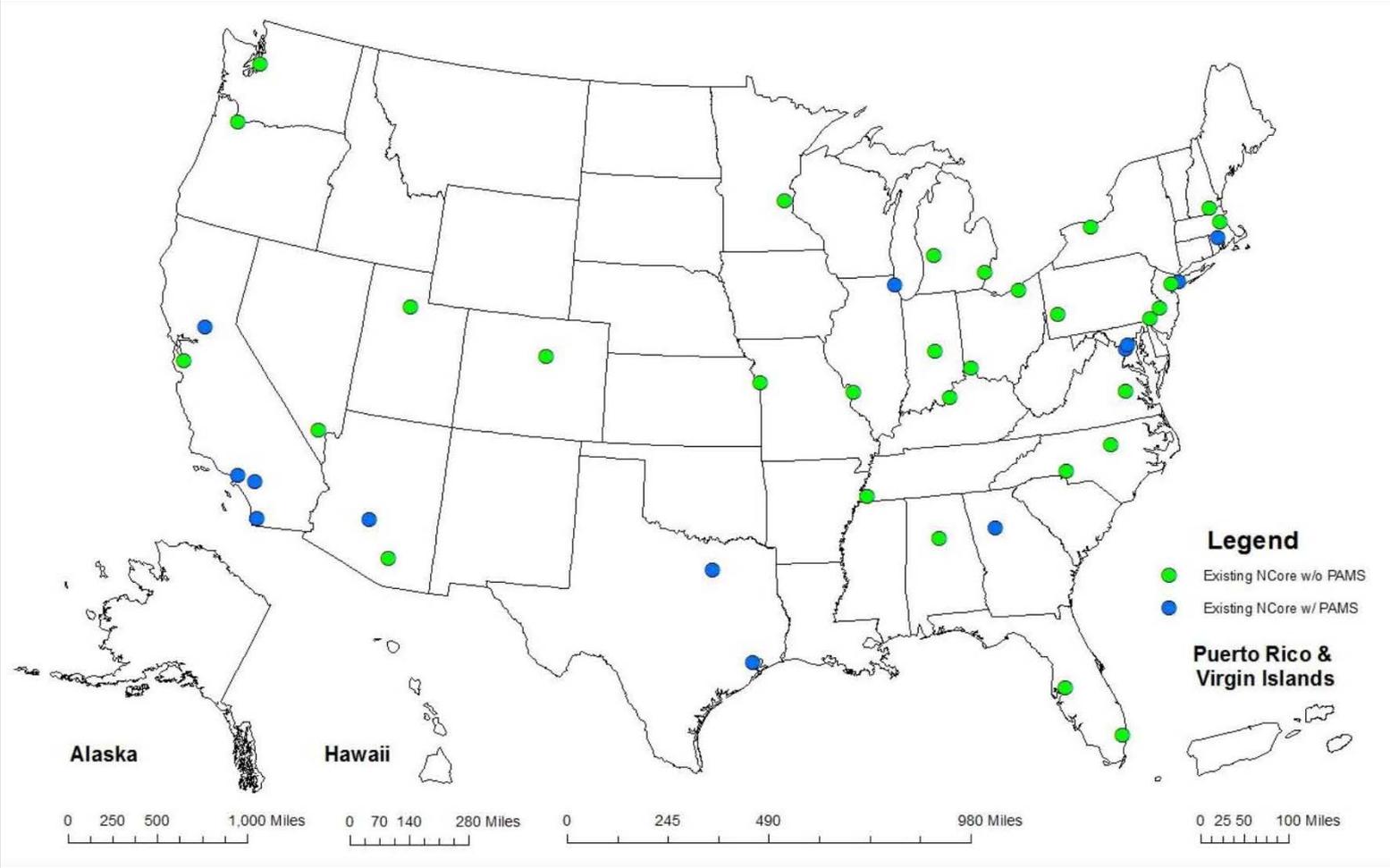
- Previous CT Precursor Assessment Monitoring Stations (PAMS): 4 sites → 3 sites → 2 sites.
- 2015 O<sub>3</sub> rule: PAMS VOC/Carbonyl monitoring at all NCore stations in areas with pop. > 1M.
- Also, states in OTR with > marginal nonattainment must submit enhanced monitoring plans (EMPs).

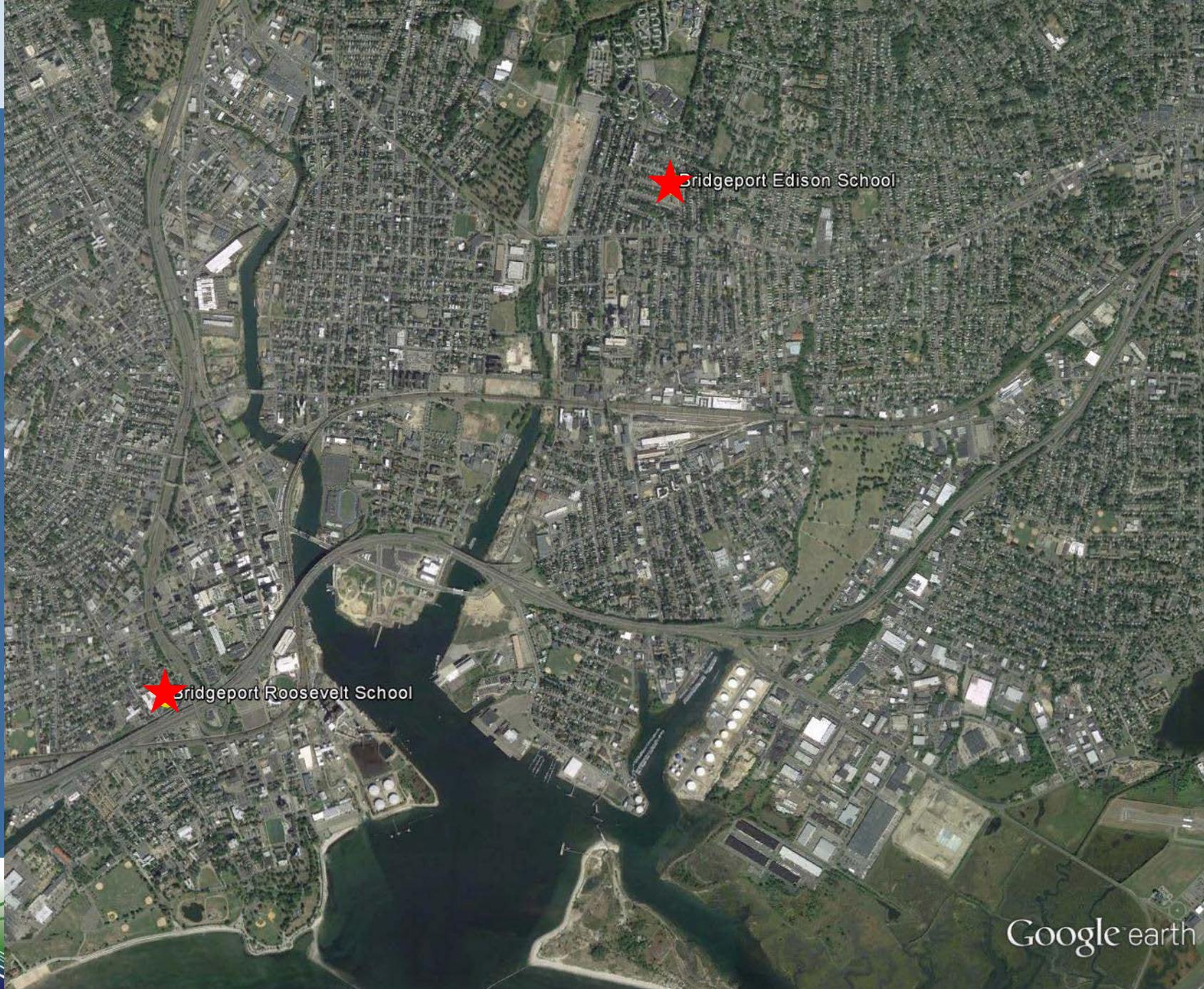


# Current PAMS Sites



# Proposed PAMS Sites





★ Bridgeport Edison School

★ Bridgeport Roosevelt School



- Draft Network Plan will be posted on DEEP website for public review
- [http://www.ct.gov/deep/cwp/view.asp?a=2684&Q=321798&deepNav\\_GID=1744Submit](http://www.ct.gov/deep/cwp/view.asp?a=2684&Q=321798&deepNav_GID=1744Submit)
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