



EPA Region 2 Air Monitoring Update

2020 MARAMA Air Quality Monitoring Training Committee Virtual Workshop

December 8 – 10, 2020

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Agenda



- ▶ Overview of EPA Region 2
- ▶ Air Monitoring Agencies in EPA Region 2
- ▶ Other work in EPA Region 2

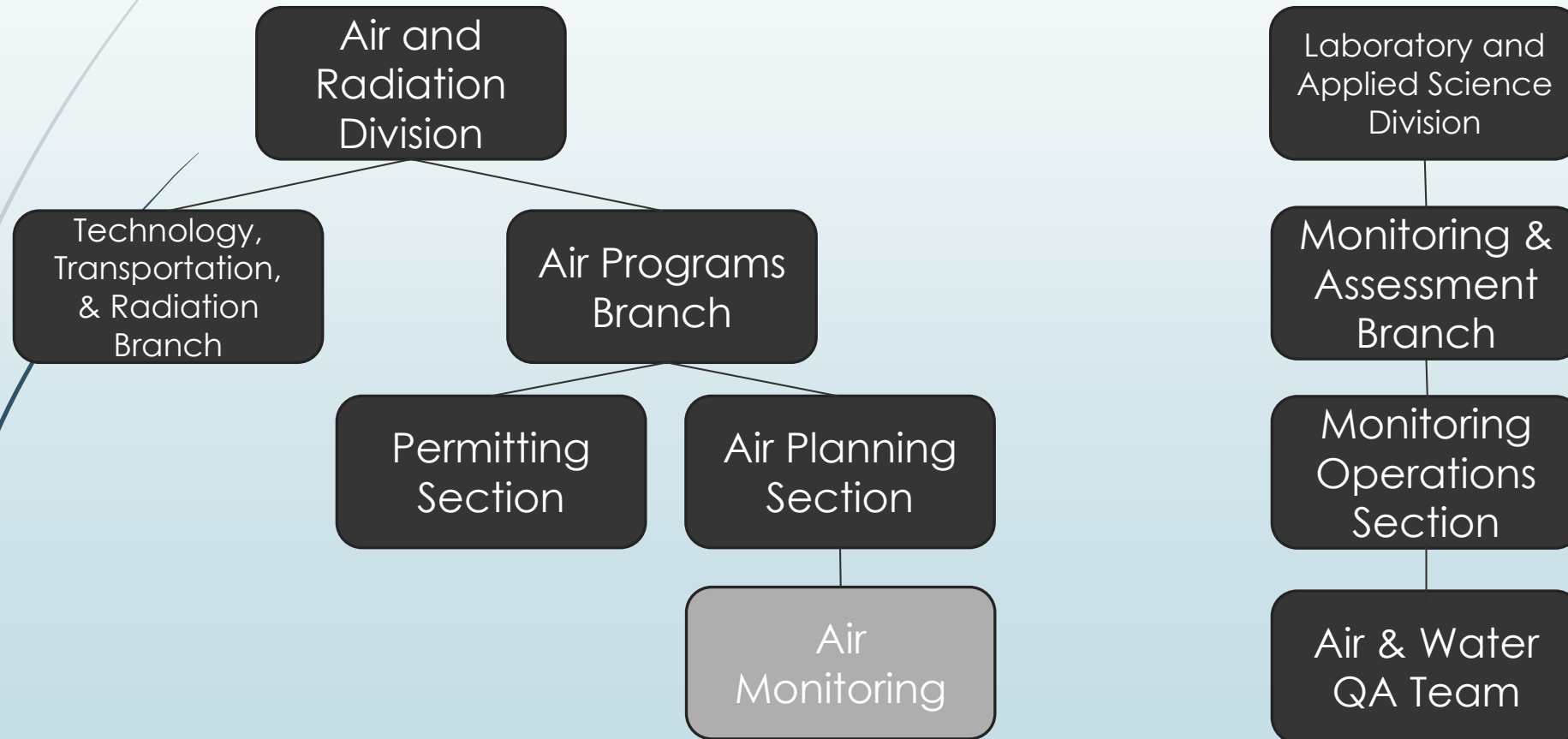
Overview of EPA Region 2

- Serves New Jersey, New York, Puerto Rico, the U.S. Virgin Islands and eight Indian Nations.
- Program offices are located in New York, NY.
- Laboratory located at EPA's Edison Environmental Center in Edison, NJ.



Organizational Chart for USEPA Region 2

► Air monitoring related divisions





New Jersey

- ▶ New Jersey Department of Environmental Protection (NJDEP)
- ▶ Nonattainment areas
 - ▶ 2008 and 2015 O₃: Philadelphia and New York Metro
 - ▶ 1971 SO₂: Warren County
- ▶ 30 sites
 - ▶ 16 sites with O₃ monitoring
- ▶ Photochemical Assessment Monitoring Station (PAMS) site located at East Brunswick, NJ (Rutgers)
- ▶ Enhanced Monitoring plan
 - ▶ Additional O₃ monitoring activities at the Rutgers and Ft. Lee near road sites
- ▶ NCore site at Newark Firehouse
- ▶ Toxics monitoring as part of USEPA's Urban Air Toxics Monitoring Program

New Jersey



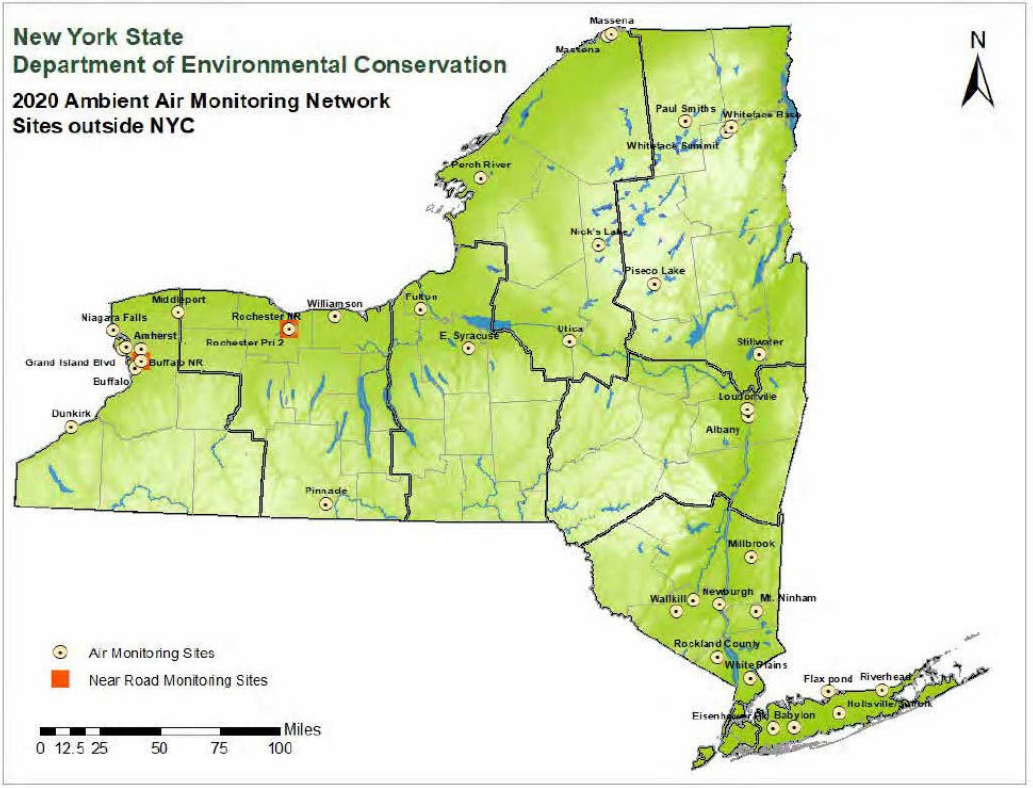
From NJ 2020 Monitoring Network Plan



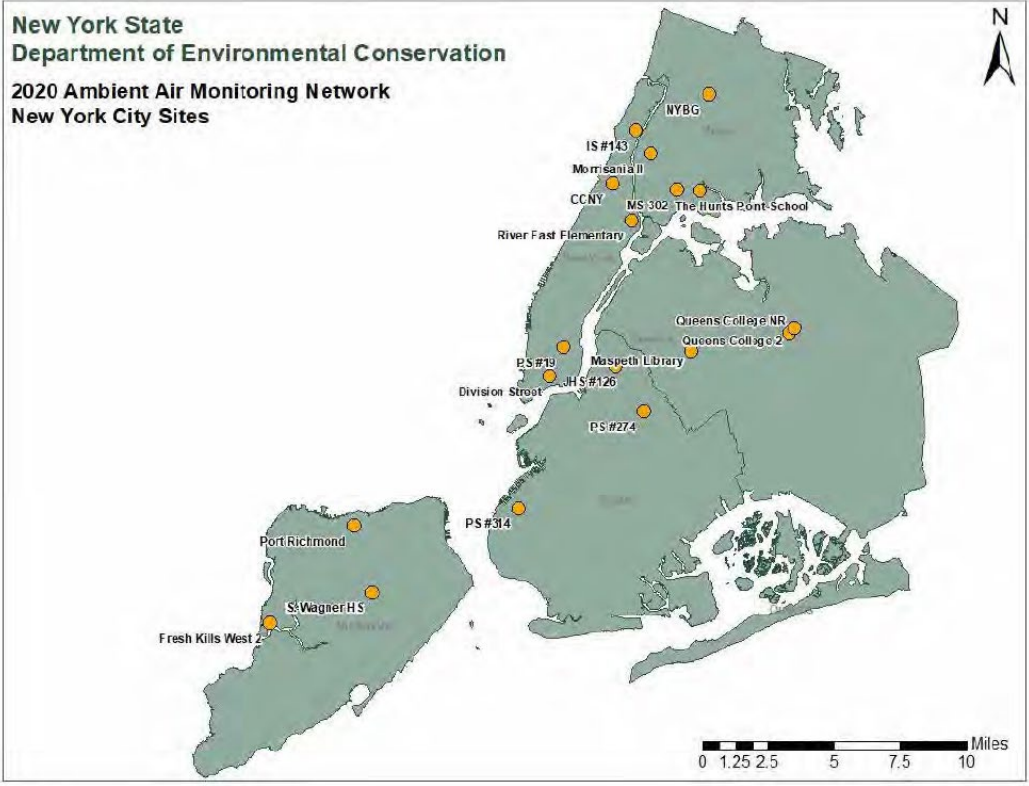
New York

- ▶ New York State Department of Environmental Conservation (NYSDEC)
- ▶ 55 sites
 - ▶ Albany – Northern NY Operations – 30 sites
 - ▶ Long Island City- Southern NY Operations - 25 Sites
- ▶ PAMS at Queens College and Flax Pond, Suffolk Co.
- ▶ Enhanced Monitoring Plan- Participation in the NESCAUM Long Island Sound Tropospheric Ozone Study (LISTOS)
- ▶ NCore at Queens College, Rochester, and Pinnacle State Park
- ▶ Toxics monitoring at 13 sites throughout the North and South

New York

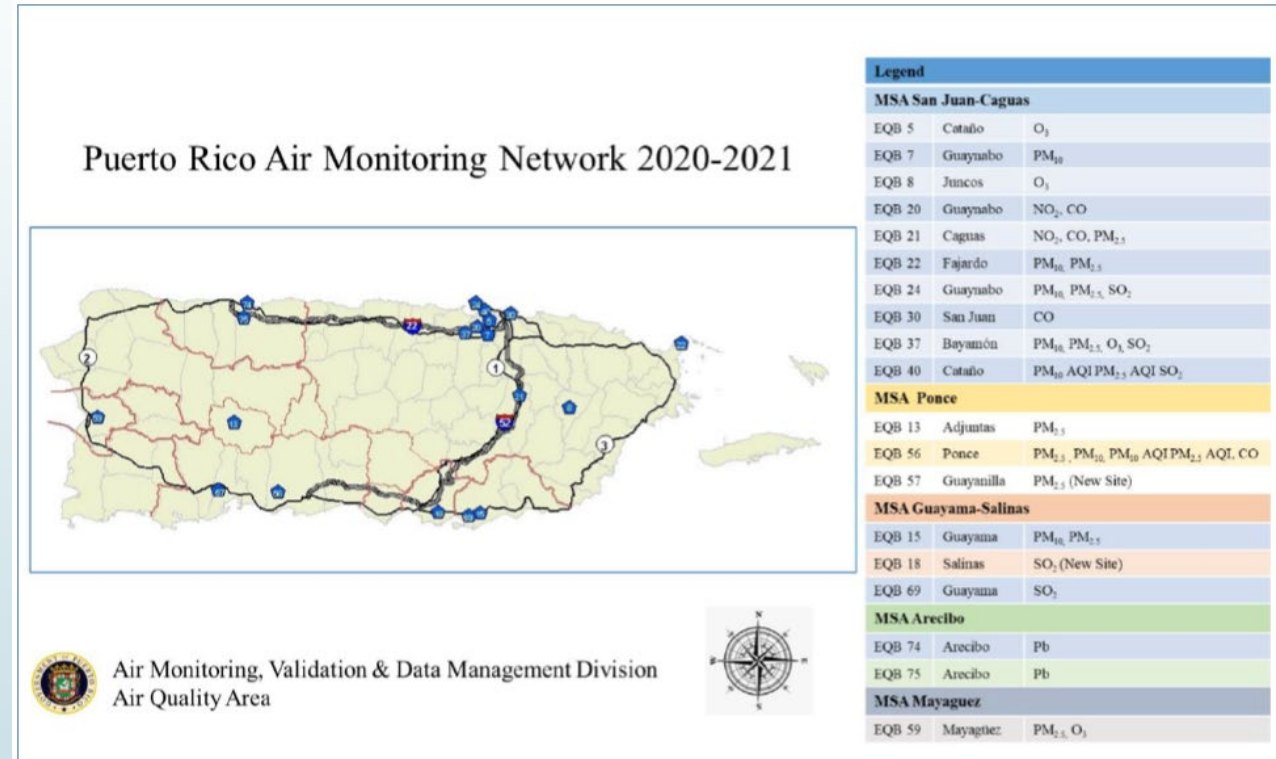


**New York State
Department of Environmental Conservation**
**2020 Ambient Air Monitoring Network
New York City Sites**



Puerto Rico

- ▶ Puerto Rico Department of Natural and Environmental Resources (PRDNER)
- ▶ 19 sites
 - ▶ NCore site in San Juan
- ▶ Nonattainment Areas
 - ▶ Pb- Arecibo
 - ▶ SO₂ San Juan and Guayama-Salinas
- ▶ Replaced a majority of monitoring equipment in 2018



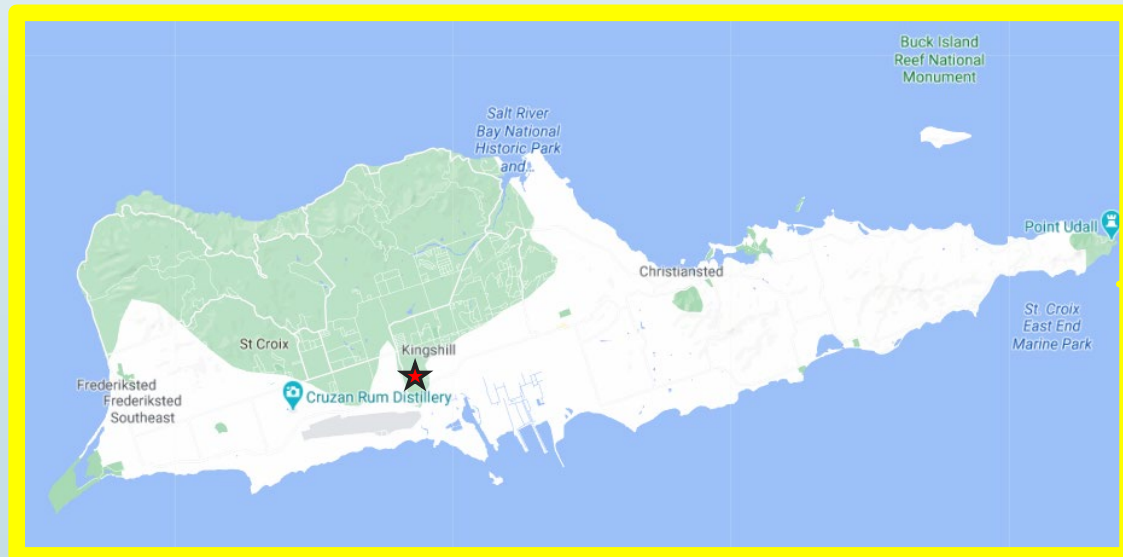
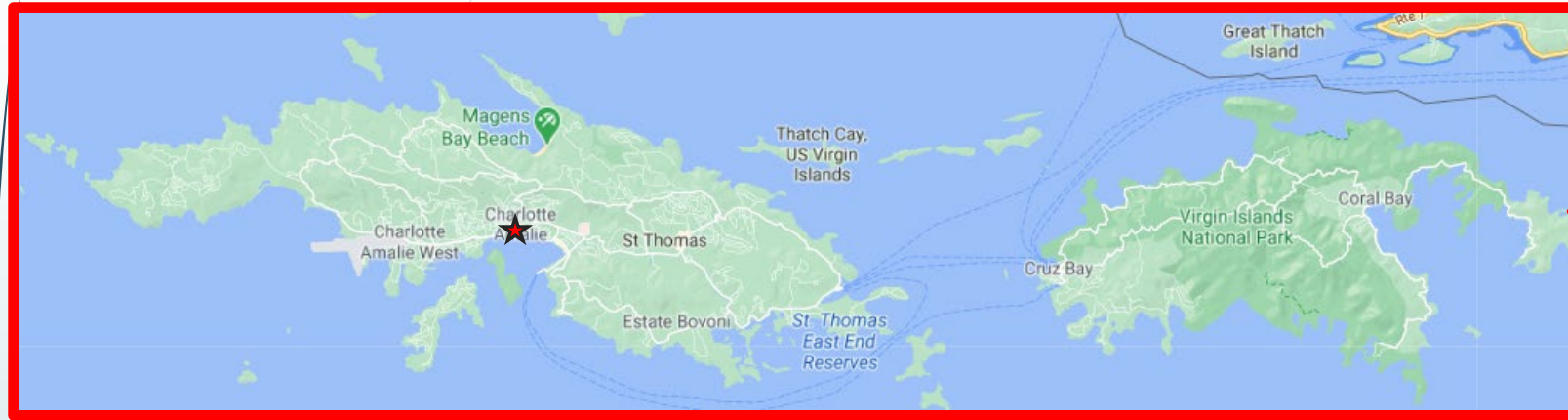
From PR 2020 Monitoring Network Plan



U.S. Virgin Islands

- ▶ Virgin Islands Department of Planning & Natural Resources (VIDPNR)
- ▶ 2 sites in the U.S. Virgin Islands
 - ▶ Waterfront/Vendor's Plaza, St. Thomas
 - ▶ Bethlehem Village, St. Croix
- ▶ PM monitors
 - ▶ FRM at St. Croix
 - ▶ Working on establishing continuous monitors at St. Thomas and St. Croix sites

U.S. Virgin Islands

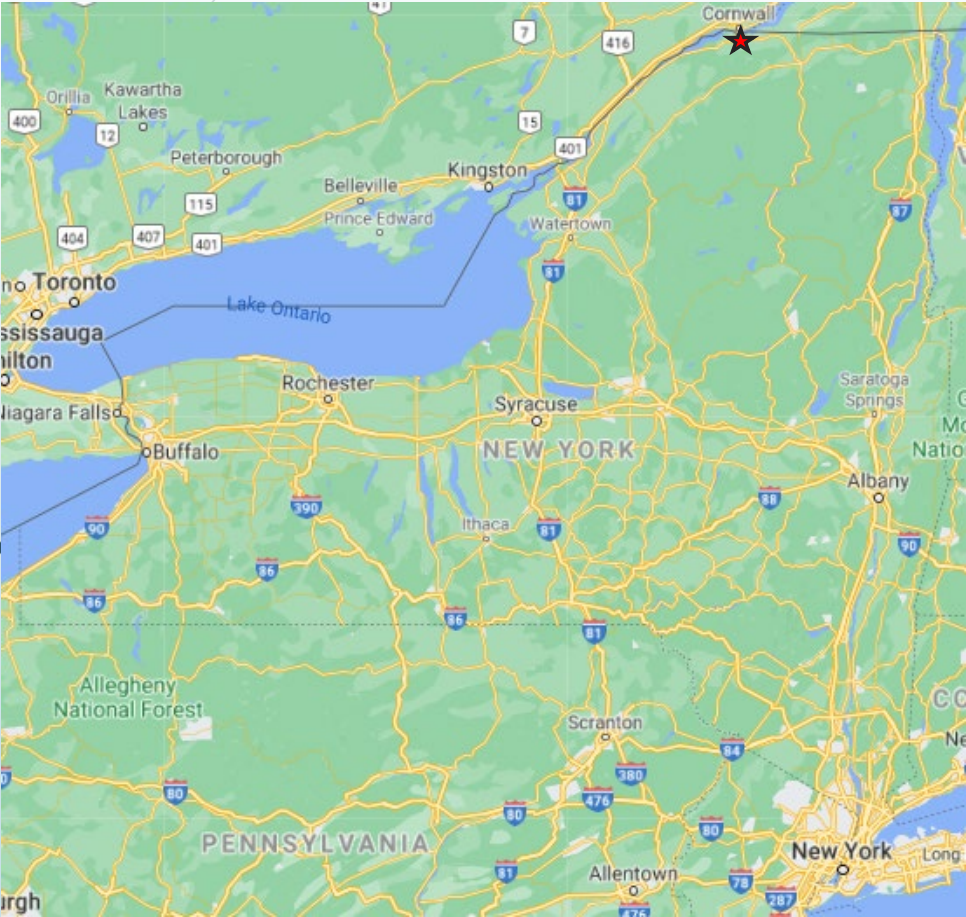




Saint Regis Mohawk Tribe

- ▶ Saint Regis Mohawk Tribe Environment Division (SRMTED)
- ▶ Operate a monitoring site on the Saint Regis Mohawk Reservation-Akwesasne
- ▶ Pollutants measured: O₃, PM_{2.5}, SO₂, and NO_x
- ▶ Meteorology
- ▶ NADP
- ▶ Pollutant studies: metals, fluoride, benzene, dioxins, PCBs

Saint Regis Mohawk Tribe



Map image from Google Maps





Other work in EPA R2

- ▶ Citizen Science expanding into sensor work
- ▶ Air and Radiation Division
 - ▶ Sensor projects
 - ▶ Woodsmoke