

# Environmental Update

May 11, 2017

Tim Green

Environmental Protection Division

**70** YEARS OF  
**DISCOVERY**

A CENTURY OF SERVICE



**BROOKHAVEN**  
NATIONAL LABORATORY

# Agenda

- Peconic River Supplemental Cleanup
- Deer Management

# Peconic River Area WC-06 - Sediment Cleanup Status

- Contract awarded to LAND Remediation Inc. (near Albany) – April 2017
- Equivalency permit application for working in the River submitted to NYSDEC mid-April for review and approval
- Contractor preparing the Work Plan and Quality Assurance Project Plan for regulator review
- Potential for surface water diversion and groundwater dewatering depending on flow

# Peconic River Area WC-06 - Sediment Cleanup Status

- Field work anticipated to start in late June/early July
- Will excavate 2600 sq. ft. contaminated area
  - Remove approximately 145 cu. yds. of material
- Meet ROD cleanup goal for mercury (average of less than 1.0 mg/kg, and all samples less than 2.0 mg/kg)
  - Verify with confirmatory sampling, 1 sample every 100 sq. ft.
  - Approximately 26 samples
- Restoration and monitoring (up to five years) to demonstrate re-establishment of wetland plants, and control of invasive species

# May 3, 2017 Photos



Area WC-06 – Looking Downstream



Area WC-06- Looking Upstream

# Deer Management - objectives

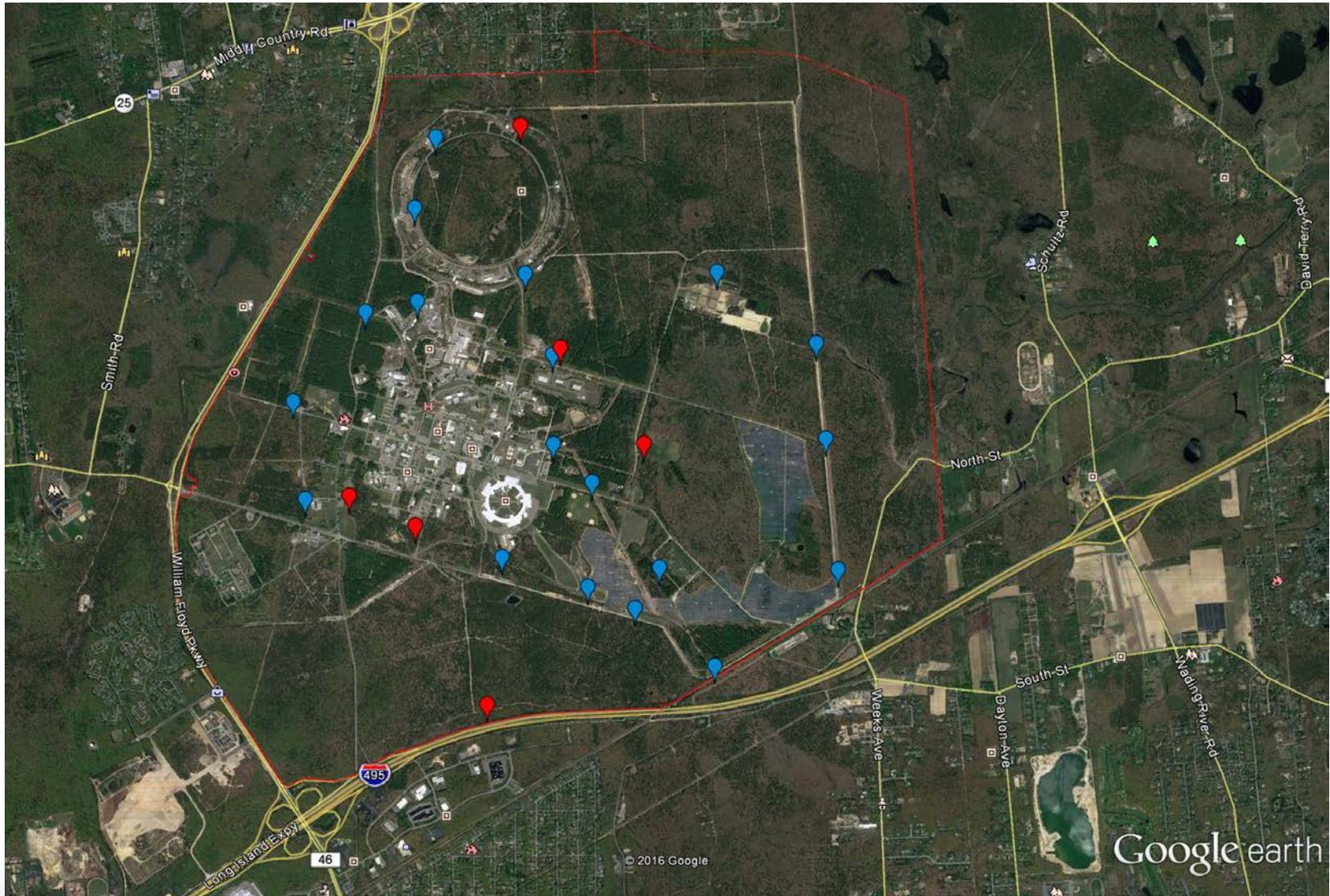
- Safer Lab site
  - Reduce accidents
  - Reduce tick numbers, less chance of tick-borne disease (4-Poster permit requires deer management)
- Improved deer health
- Improved ecosystem health
  - Forest regeneration, recovery of rare plants, improved bird populations
- Reduced costs
  - Fewer landscape plants replaced
  - Less corn and permethrin required for 4-Poster devices

# Deer Management – population reduction

- Goal – 10-30 deer/sq. mi. (80 – 250 deer total)
- This action - removal of 200 – 250 deer
  - Starting population 400 – 500 deer
  - Removed 202 deer – remaining population 200 – 300 deer
- How long did it take? – 6 days not counting prep and baiting
  - 3 days prep, 10 days of baiting
- 5,732 lbs. of meat donated
  - Cs-137 values < 0.49 pCi/g wet weight
  - 28.4 lbs./deer



Deer Density Prior to Start of Cull

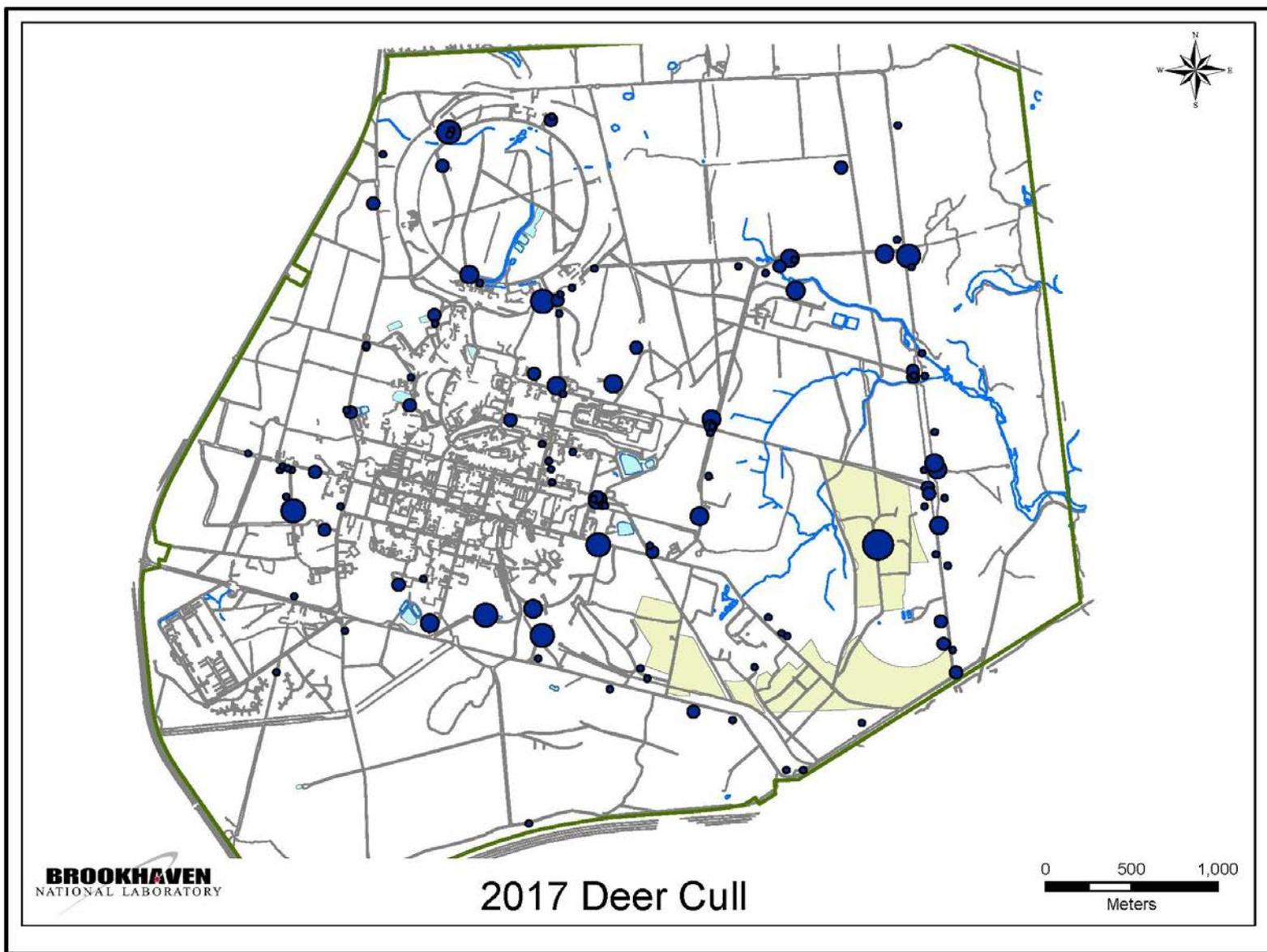


Location of Bait Stations Established for Cull



**BROOKHAVEN**  
NATIONAL LABORATORY

**70** YEARS OF  
**DISCOVERY**  
A CENTURY OF SERVICE



Locations of where deer were taken. Larger dots = more deer taken. Range 1-10 deer.

# Future actions

- Population now at ~250; to maintain will require take of ~100 animals/year.
  - Population Growth – Fall 2017 Pop. = ~350, Fall 2018 Pop. = ~500.
- Reconsider cost effective alternatives
  - Establish hunting in outer areas using BNL employees who are hunters – minimal cost
  - Use of USDA-Wildlife Services