



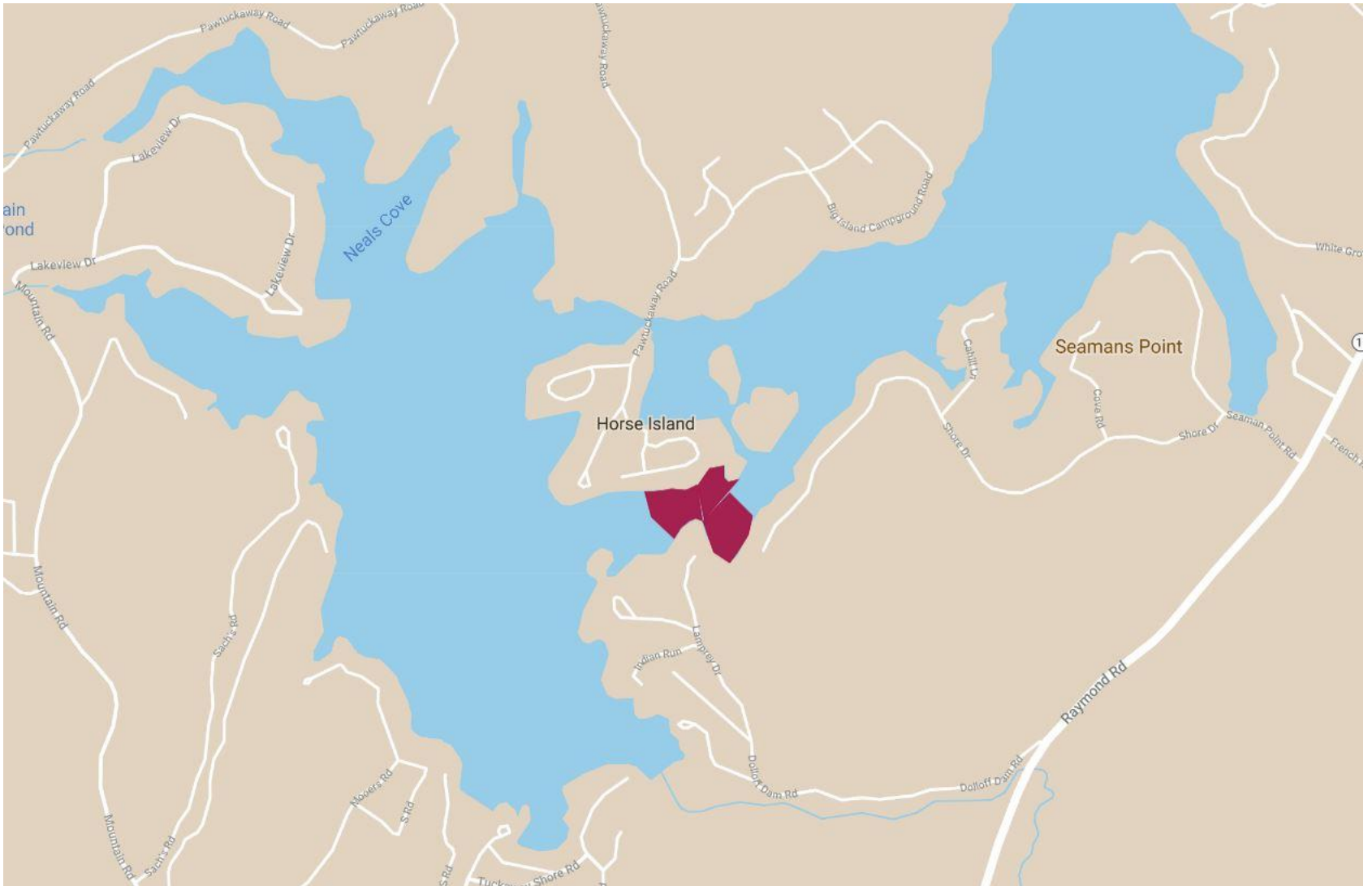
# Pawtuckaway Lake Milfoil Status and Outlook

Nottingham BOS Presentation

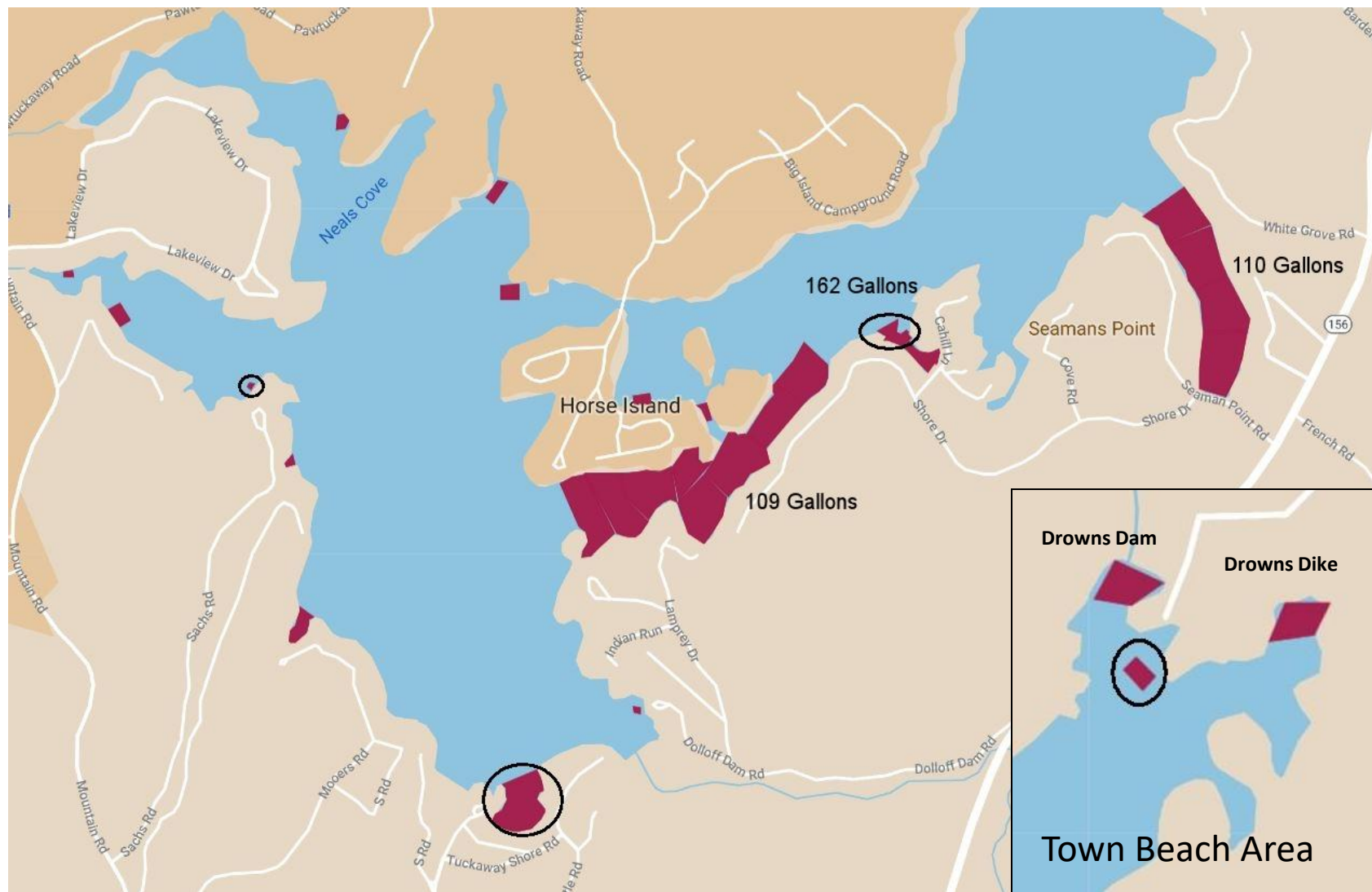
November 6, 2023

# Milfoil History

- First discovered near Horse Island launch in 2015
  - Probably introduced by park visitor in 2013-2014
- Milfoil Team started in 2015-2016
- Milfoil now found in 16 areas, ranging from a few plants to thick patches



Milfoil 2017



## Milfoil 2022

Circled Areas were new in 2022  
 Amounts shown for significant areas

# Milfoil Removed

- 2015 – 35 gallons
- 2016 – 25 gallons
- 2017 – 15 gallons
- 2018 – 11 gallons
- 2019 – 132 gallons
- 2020 – 65 gallons
- 2021 – 316 gallons
- 2022 – 458 gallons

# 2022 Year End Outlook

- Increasing milfoil acreage and removal amounts every year
- Outstripping volunteer capability, had to pay removal divers starting in 2022
- Several new sightings at the end of 2022
- With increasing infestation, requested NH DES Invasive Species grant in October 2022

# 2023 NH DES Grant

- Grant application approved
  - 100% cost coverage (first time only)
  - Up to \$52K
  - Up to 54 acres of treatment
  - Covered all areas identified on 2022 milfoil map
    - Subject to review and survey by DES

# 2023 Plan

- Search all known milfoil areas to verify milfoil status for consultation with DES
- DES survey to confirm plans
- DES recommended ProcellaCOR treatment for confirmed high density milfoil areas
- Low and medium density milfoil areas to use hand removal by divers
- Continue using PLIA Milfoil Team to search all areas for milfoil and remove as needed



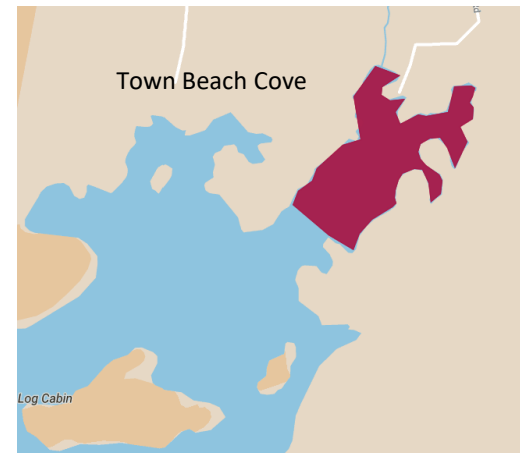
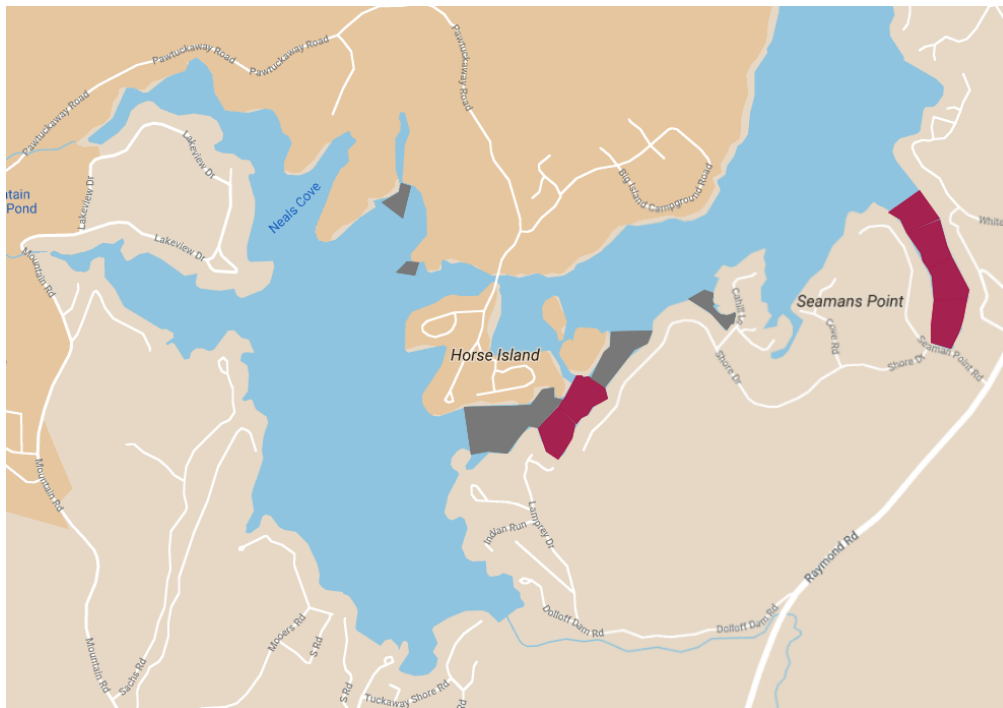
# ProcellaCOR

- Synthetic plant growth hormone
- Approved in NH since 2018
- Used to treat over 50 waterbodies in NH
- Excellent selectivity for variable leaf milfoil
- Little to no effect on native vegetation or aquatic life
- Minimal short term water usage restrictions
- Good Suppression for at least 3 years in treated areas

ProcellaCOR	Hand Extraction
ALL milfoil plants in treated area are affected	Plants get missed due to low visibility and weedbed
No regrowth from root or stem fragments	Significant regrowth particularly with large plants

# Final Grant Areas

- Major new milfoil area discovered in the Town Beach Cove in early June
- 36 acres planned for ProcellaCOR treatment
- Medium density areas planned for professional milfoil company using DASH
- Both activities scheduled for early July



ProcellaCOR- Red Areas  
DASH- Gray Areas

# DASH Boat



- 3 days \$6500
- 30 acres searched and milfoil removed



# ProcellaCOR Treatment



- 36 acres treated
- Subsurface Injection



# ProcellaCOR Results



Before



After



# Cost Summary

- DES Grant \$52K
  - Based on maximum treatment area
- Treatment area reduced
  - Some funds redirected to DASH removal
- Total Cost
  - NE Milfoil(DASH) \$ 6,496
  - Solitude(ProcellaCOR) \$37,025
- Future DES grants limited to 50%
  - Range 20%-50%, if funds available
  - Potential future treatment cost could be up to \$60,000
  - Important for Nottingham to continue to set aside reserve funds

# Treatment Results

- One week after treatment, divers observed milfoil yellowing and rotting in treated areas
- Ten search dives since the end of July in treated and non-treated areas did not find any milfoil
- Three small areas of milfoil found in late September

# 2024 Outlook and Plans

- 2023 activities have allowed us some breathing room
- Expect to find limited areas of milfoil in known milfoil areas
- Will continue to search all areas with Milfoil Team and Weed Watchers
- Lake Hosts continue to play key role in prevention
  - Several new invasives in waterbodies near Pawtuckaway
    - Fanwort
    - Curly leaf pondweed
    - Spiny Naiad
    - Others
- Important not to get complacent
  - Northern part of lake of particular concern for milfoil spread from Town Beach Cove